Test plan	for BMW Sei	rvice (development status)										-			1						
MEVD17.2	-BN2000	-			1							1					MI (Descination)**				
ECU type	Fault Fault Code Code (hex) (dez)	BMW Fault Code Description VS-Test	Fault description	DTC (Diagnostic Trouble Code)	DTC Description	Component	Subcomponent	Monitoring criteria	Fault debouncing	Terminal conditions	Voltage conditions Temperature conditions	Time conditions	System test Signal information	Calculated value Y/N	Possible Fault Causes	Repair procedures (plant/service)	ML Illumination/CC message/emergency program	Remarka	Customer perception comments	Breakdown instruction	Service instruction
								PWM signal used to control the throttle valve remains above 80% for longer than			Voltage condition: - Onboard electrical avatem					- Use tester to activate throttle valve and	- ECE emissions warning lame: on				
								0.6 sec.			voltage between 9 V and 15 V					observe repositioning speed - Check wining harness between DME and Restline other	ECE electronic engine power reduction: on				
								Throttle valve moves stiffly, sticking,			- None Time condition:				- Throttle valve moves stiffy, sticking,	Visual inspection of throttle valve and air- induction system for contamination	- US emissions warning				
MEVD17.2-			The diagnostic function checks the throttle valve's control signal for excessively high figures that would indicate that the throttle valve		Throttle Valve Position Control Throttle Stuck			- Defect in wiring harness between throttle-valve	This fault is logged in the control module's fault		- None Other conditions: - Active control signal to		STEUERN_DK, STEUERN_ENDE_DK,		contaminated - Defect in wiring harness between throttle-valve actuator motor and DME	 Nove the throttle valve manually to determine whether it progresses throughout its entire travel range freely without excess resistance 	- US electronic engine power reduction: on		Possible apparent symptoms:	Breakdown notice: Ability to continue driving is restricted because	
BN2000	0x2710 10000	Throttle valve, function: jammed permanently	is setzing.	P1630	Permanently (Bank 1)	Throtile Actuator	Throttle Stuck	actuator motor and DME throttle valve is deactivated	memory immediately.	Terminal 15	brottle valve - None	- None	STATUS_DKP_VOLT none Y	Y	Defective throttle-valve actuator motor	Replace throttle-valve actuator motor	- CC message: on	none	- Reduced power	engine speed is limited to roughly 1300 rpm.	none
								when the PWM signal used to control the throttle valve remains above 80% for			Voltage condition:						- ECE emissions warning				
								longer than 5 sec.			- Onboard electrical system voltage between 9 V and 15					Use tester to activate throttle valve and observe repositioning speed	lamp: on - ECE electronic engine				
								- Throttle valve moves stiffly, sticking,			V Temperature condition: - None					- Creck using names between Livic and fixrottle valve - Vaual inspection of throttle valve and air-	- CC message: on				
			The diagnostic function monitors the throttle value crysted sizes for averaginate birth formas					- Defect in wing harness hateeen throttle-value	This fault is borred in the		Time condition: - None Other conditions		STELFEN DK		Throttle valve moves stiffy, sticking, contaminated Defect in wiring harness between throttle-value	induction system for contamination - Move the throttle valve manually to determine substituer it reconsesses throughout its entire tread	- US emissions warning lamp: on			Read-from refine-	
MEVD17.2- BN2000	0x2711 10001	Throttle valve, function: jammed briefly	that would indicate that the throtile valve is sticking or seizing.	P1638	Throttle Valve Position Control Throttle Stuck Temporarily (Bank 1)	Throttle Actuator	Throttle Stuck	actuator motor and DME - Defective throttle-valve	control module's fault memory immediately.	Terminal 15	- Active control signal to throttle valve - None	- None	STEUERN_ENDE_DK, STATUS_DKP_VOLT none Y	Y	actuator motor and DME - Defective throttle-valve actuator motor	range freely without excess resistance - Replace throttle valve	reduction: on - CC message: on	none	Possible apparent symptoms: - Reduced power	Ability to continue driving is restricted because engine speed is limited to roughly 1300 rpm.	none
								logged when the difference between the specified and the actual value is creater			Voltage condition:						- ECE emissions warning				
								than the characteristic curve over throttle-valve gradient			- Onboard electrical system voltage between 9 V and 15					Check wiring harness between DME and throttle valve	lamp: on - ECE electronic engine				
								(4% - 50%). Potential problem source(s):			V Temperature condition: - None					Use tester to activate throttle valve and observe its reaction Check throttle valve for contamination and	- CC message: on				
			The diagnostic function monitors the difference between specified and actual throttle-valve unions. If this force complete two birth for a					Stiction in throttle valve Defect in wiring harmess between throttle valve	This for it is based in the		Time condition: - None		PTE IEEM PV		- Stiction in throttle valve	foreign objects - Move throttle valve by hand, checking for residence to extinct out on the solution in	- US emissions warning lamp: on			Residence entities	
MEVD17.2- BN2000	0x2714 10004	Throttle valve, function: sluggish, too slow	specified period, a fault is recognized and the throttle valve is deactivated.	P11AA	Throttle tight (Bank 1)	Throtte	Tight	actuator motor and DME - Defective throttle-valve	control module's fault memory immediately.	Terminal 15	- Active control signal to Prottle valve - None	- None	STEUERN_ENDE_DK, STATUS_DKP_VOLT none Y	Y	actuator motor and DME - Defective throttle-valve actuator motor	closes when released - Replace throttle-valve actuator motor	reduction: on - CC message: on	none	Possible apparent symptoms: - Reduced power	Ability to continue driving is restricted because engine speed is limited to roughly 1300 rpm.	none
								the calculated air mass deviates too starkly from the measured air mass			Voltage condition:						ECE emissions warning lamp: on ECE electronic emine				
								Potential problem source(s)			voltage between 9 V and 15 V						power reduction: on - CC message: on				
								 Collateral fault caused by other components in the intake system, Valvetronic, 			Temperature condition: - None Time condition:				- Collateral fault caused by other components in	If other diagnostic fault codes related to components in the induction tract, Valvetronic or turbocharger have been logged, then process	- US emissions warning lamp: off				
MEVD17.2- BN2000	0x2774 10100	Mass air flow sensor, plausibility: Air mass	The diagnostic function compares the calculated air mass with the measured air mass	mono	Mass or Volume Air Flow 'A' Circuit Benne/Deformence - Air Flow Too Hinh	Mass Air Firm	Too Hinh	turbocharger - Intake system leaking - HFM defective	This fault is logged in the control module's fault memory immediately	Terminal 15	- None Other conditions: - Enning CN	New	NO	Ŷ	the intake system, Valvetronic, turbocharger - Intake system leaking - HTM defective	these first (collateral faults) - Check intake system for leaks - Dentary HFM	- US electronic engine power reduction: off	0.00	Possible apparent symptoms:	Breakdown notice:	- 1004
								the calculated air mass deviates too starkly from the			Voltage condition:						- ECE emissions warning lamp: on				
								measured air mass.			- Onboard electrical system voltage between 9 V and 15 V						ECE electronic engine power reduction: on CC message: rop				
								Collateral fault caused by other components in the intake contents.			Temperature condition: - None Time condition:				- Collaboral facel proceed for other	If other diagnostic fault codes related to components in the induction tract, Valvetronic or heterothermer base.	- US emissions warning				
MEVD17.2-		Mass air flow sensor, plausibility: Air mass	The diagnostic function compares the calculated		Mass or Volume Air Flow 'A' Air Mass Too High			turbocharger - Intake system leaking	This fault is logged in the control module's fault		- None Other conditions:				the intake system, Valvetronic, turbochanger - Intake system leaking		w-rp: on - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x2774 10100	compared with model too high	air mass with the measured air mass.	P115D	Compared to Model	Mass Air Flow	Comparison to Model	HFM defective The fault is recognized when the indicated air mass does	memory immediately.	Terminal 15	- Engine CN - None Voltage condition:	1- None	NO none Y	Y	- HFM defective	- Replace HPM	- CC message: none	none	- none	- none	- none
								not correlate with the calculated mass airflow rate.			- Onboard electrical system voltage between 9 V and 15 V										
								Potential problem source(x) - Defective HFM, problem			Temperature condition: - 30°C ≺ intake-air										
								wen arritow to HPM, clean air tube fallen off intake air noise attenuator			www.exectantiniteries.com 50°C < coolant temperature										
								Leak within induction tract on engine-side of throttle valve fleaks in viriality of			Time condition: - None Other conditions:				- Defective HFM, problem with airflow to HFM, clean air tube fallen off intrike air noise						
								intake air plenum chamber, open oli filler cap)			Engine on Pressure drop at throttle				attenuator - Leak within induction tract on engine side of		- ECE emissions warning lamp: on				
								Maifunction in components affecting airflow (valve lift monitoring, prelition of			valve exceeds 15 hPa - 745hPa < barometric pressure				throttle valve (leaks in vicinity of intake air plenum chamber, open oil filler cap) Malfunction in components effection airfor-	- Check wiring harnesp on Hiffs	ECE electronic engine power reduction: on CC message: on				
								VANOS, throttle valve, pressure sensors)			- 500 rpm × engine speed × 7000 rpm				(valve lift monitoring, position of VANOS, throttle valve, pressure sensors)	Check intake system for leaks on engine side of throttle valve	- US emissions warning				
MEVD17.2-		Mass air fow sensor, plausbility: Air mass	The diagnostic function compares the air mass calculated from the model with the measured air		Mass or Volume Air Flow 'A' Circuit			 Comparison bypass valve stuck in open position (accompanied by low boost 	This fault is logged in the control module's fault		- 133 rpm = oynamic rpm = - 30°C = intake-air naponae (rpm window) temperature < 120°C - 7.7% < dynamic load = - 30°C < coolant				- compressor bypass varve assoc in open position (accompanied by low boost pressure maifunction)	- Sear on on their cap is derective - Problem with airflow to HFM (air filter insert is defective or installed incorrectly)	- US electronic engine power reduction: off		If the HIM is recognized as defective it is deactivated, following jerk during deactivation	Breakdown notice:	
BN2000	0x2775 10101	compared with model too low	rias.	PODBC	Range/Performance - Air Flow Too Low	Mass Air Flow	Too Low	pressure mailunction) The fault is recognized when the indicated air mass does	memory immediately.	Terminal 15	vesponse (load window) temperature Voltage condition:	- None	NO none Y	Υ	- Severely contaminated air filter	- Replace HFM	- CC message: none	none	owing to lambda error no limitations	- 1008	none
								not correlate with the calculated mass airflow rate.			- Onboard electrical system voltage between 9 V and 15 V										
								Potential problem source(s) - Defective HFM, problem			Temperature condition: - 30°C < intake-air										
								tube fallen off intake air noise attenuator			amperature = 120 C 30°C ≤ coolant temperature										
								 Leak within induction tract on engine-side of throttle orbits (balls is side/b) of 			Time condition: - None				Defective HFM, problem with airflow to HFM, does not be follow of intellow as entry						
								intake air plenum chamber, open oli filler cap)			- Engine on - Pressure drop at throttle				attenuator - Leak within induction tract on engine side of		- ECE emissions warning lamp: on				
								Maifunction in components affecting airflow (valve lift monitorion position of			valve exceeds 15 hPs - 745hPs < barometric				throttle valve (leaks in vicinity of intake air plenum chamber, open oil filler cap) - Mathematics in commonants affection airfiner	- Check witten harrans on HFM	ECE electronic engine power reduction: on CC message: rop				
								VANOS, throffle valve, pressure sensors)			- 500 rpm i < engine apeed < 7000 rpm				(valve lift monitoring, position of VANOS, throttle valve, pressure sensors)	Check intake system for leaks on engine side of throttle valve	- US emissions warning				
MEVD17.2-		Mass air flow sensor, plausibility: Air mass	The diagnostic function compares the air mass calculated from the model with the measured air		Mass or Volume Air Flow 'X' Air Mass Too Low			 Completer oppass value stuck in open position (accompanied by low boost 	This fault is logged in the control module's fault		- 133 rpm = oynamic rpm - 30°C = intake-air nexponse (rpm window) temperature = 120°C - 7.7% = dynamic load30°C = coolant				- Compressor bypass valve action in open position (accompanied by low boost pressure maifunction)	- Sear on or ther cap is derective - Problem with airflow to HPM (air filter insert is defective or installed incorrectly)	- US electronic engine power reduction: off		If the HPM is recognized as defective it is deactivated, following jerk during deactivation	Breakdown notice:	
BN2000	0x2775 10101	compared with model too low	r1453.	P115C	Compared to Model	Mass Air Flow	Comparison to Model	This fault is recognized when	memory immediately.	Terminal 15	vesponse (load window) temperature Voltage condition:	- None	NO none Y	Y	- Severely contaminated air filter	- Replace HPM	- CC message: none lamp: on	none	owing to lambda error no limitations	- 1008	none
								the period duration of the HFM signal exceeds 540 µs.			- Onboard electrical system voltage between 9 V and 15 V						- ECE electronic engine power reduction: on - CC message: on				
								Potential problem source(s) - Defect in wiring harness holesens WEM and DMI			Temperature condition: - None				Defect is within bounce between MBM and	Check wides because between PME and more	- US emissions warning				
MEVD17.2-		Air mass sensor, signal: Implausible period	The diagnostic function monitors the upper limit					Mass-airflow sensor defective	This fault is logged in the control module's fault		- None Other conditions:		Read test data block;		DME - Mass-airflow sensor defective	airfow sensor - Replace mass-airfow sensor	- US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x2778 10104	duration, loose contact with low frequency	of the digital HI'M signal's period duration.	P0103	Mass or Volume Air Flow Sensor 'A' Circuit High	Mass Ar Flow Sensor	Electrical	- Defective DME the period duration of the	memory immediately.	none	- Ergine ON - None Voltage condition:	- None	NO ID SEAE N	N	- Defective DME	- Replace DME	- CC message: none	none	Engine runs roughly	None	None
								pr.			- Uncourd executes system voltage between 9 V and 15 V						- ECE electronic angle power reduction: on - CC message: on				
								Potential problem source(s) - Defect in wiring harness between HFM and DME			Temperature condition: - None Time condition:				- Defect in wiring harness between HFM and	- Check wiring harness between DME and mass-	- US emissions warning tamp: off				
MEVD17.2- BN2000	0x2229 10105	Air mass sensor, signal: Implausible period	The diagnostic function monitors the lower limit of the distribut HTM sizes/or seried duration	80102	Mass or Volume Air Fine Sensor 'A' Circuit Low	Mass & Fire Server	Flactical	- Mass-airflow sensor defective	This fault is logged in the control module's fault memory immediately		- None Other conditions:	- Nerra	Read test data block;	N	DME - Mass-airflow sensor defective - Defective DMF	airflow sensor - Replace mass-airflow sensor - Rentane DMF	- US electronic engine power reduction: off	0.00	Possible apparent symptoms:	Breakdown notice:	None
04000	0005	control, total control with high inclusion	or the organization against period detailor.	10112	Need of Foreign Ar Foreign and Ar Circle Coll	Mass / F / Kill Jerson	LILLICE	This fault is recognized when the period duration of the	interiory intractancy.		Voltage condition: - Onboard electrical system	- 164.08			- Deacter Deac	· repaids tree.	lamp: on - ECE electronic engine	122180	Light dis roginy	PRAN	76.4 19
								HPM signal is zero.			voltage between 9 V and 15 V						power reduction: on - CC message: on				
								Defect in wiring harness between HFM and DME			- None Time condition:				- Defect in wiring harness between HFM and	- Check wiring harness between DME and mass-	- US emissions warning lamp: off				
MEVD17.2- BN2000	0x277A 10106	Air mass sensor, signal: Short-circuit or line break (coen circuit)	The diagnostic function determines whether a digital alonal from the HFM is present.	P0100	Mass or Volume Air Flow Sensor & Circuit	Mass Air Flow Senace	Electrical	Mass-airflow sensor defective Defective DME	This fault is logged in the control module's fault memory immediately.	0016	- None Other conditions: - Encine ON - None	- Norm	Read test data block; NO ID 58AE N	N	DME - Mass-airflow sensor defective - Defective DME	airflow sensor - Replace mass-airflow sensor - Replace DME	US electronic engine power reduction: off CC message: none	pane	Possible apparent symptoms: Engine runs roughly	Breakdown notice: None	Norm
MEVD17.2- BN2000 MEVD17.2-	0x2778 10107			Podeb	Mass or Volume Air Flow 'X' Circuit Range/Performance - Air Flow Too High	Mass Air Flow	Too High														
BN2000 MEVD17.2- BN2000	0x277B 10107 0x277C 1010*	1		P0103	Mass or Volume Air Flow Sansor & Circuit High Mass or Volume Air Flow & Circuit Range/Performance - Air Flow Too Low	Mass Air Flow Sensor	Electrical Too Lo=					1									
MEVD17.2- BN2000	0x277C 10108			P0102	Mass or Volume Air Flow Sensor 'A' Circuit Low	Mass Air Flow Sensor	Electrical														
								the voltage at sensor 1 rises above 4.085 V.			Voltage condition: - Onboard electrical system voltage between 9 V and 15						lamp: off - ECE electronic engine power reduction: off				
								Potential problem source(x) - Defect in wiring harness between PC			V Temperature condition: None						- CC message: on		Possible apparent symptoms:		
								accelerator pedal module sensor 1	This fault is logged in the		Time condition: - None				- Defect in wiring harness between DME and	- Check wiring harness between DME and	- US electronic engine power		 Level or years value value (34.5% pedia) In combination with fault in accelerator pedial 	Breakdown notice: - It is possible to continue driving the vehicle,	
MEVD17.2- BN2000	0x2709 10201	Accelerator pedal module, pedal sensor 1, electrical: Short circuit to B+	I ne diagnostic function monitors the voltage of sensor 1.	P2123	i rrotte/Pedal Position Sensor/Switch 'D' Circuit High	Pedal Position Sensor	D Electrical	Accelerator pedal module defective the voltage at second 1 is	control module's fault memory immediately.	Terminal 15	- none - None	- None	Accelerator pedal sensor 1 Accelerator pedal sensor 1 voltage (0x5546) N	N	accelerator pedal module sensor 1 - Accelerator pedal module defective	accelerator pedal - Replace accelerator pedal	reduction: on - CC message: on	none	sensor 2 or clocking error, increased idle speed and no processing of accelerator pedal	but passing maneuvers should not be attempted owing to the reduction in engine output.	none
								less than 0.566 V.			Voltage condition:						ECE emissions warning lamp: of				
								Posensial problem source(x) Defect in wiring harness between DME and			voltage between 9 V and 15 V						- CLC excloric engine power reduction: off - CC message: on				
								accelerator pedal module sensor 1 - Voltage surveix for			Temperature condition: - None Time condition:				Defect in wiring harness between DME and accelerator pedal module sensor 1	Check wiring harness between DME and accelerator pedal Check voltage supply at accelerator rent="	- US emissions warning lamo: on		Possible apparent symptoms: - Limit on pedal value variation and on maximum absolute value /%4. %4. world1	Breakdown notice:	
MEVD17.2-		Accelerator pedal module, pedal sensor 1, electrical: Short circuit to earth or line	The diagnostic function monitors the voltage of	in an	Throttle/Pedal Position Sensor/Switch 'D' Circuit	Barris Marcales	10.000 · · · · ·	accelerator pedal module in the DME is defective	This fault is logged in the control module's fault	Teres	- None Other conditions:		Accelerator pedal sensor 1 Accelerator pedal sensor 1		Voltage supply for accelerator pedal module in the DME is defective	module sensor 1 for 5 V - Replace accelerator pedal	- US electronic engine power reduction: on		In combination with fault in accelerator pedal sensor 2 or clocking error, increased idle speed	 It is possible to continue driving the vehicle, but passing maneuvers should not be attempted prior to the 	
BN2000	uk2/UA 10202	disconnection	sensor 1.	P2122	Low	Heal Position Sensor	D Electrical	- Accelerator pedal module the voltage at sensor 2 rises phrase 2 0/3 V	memory immediately.	verninal 15	- None - None - None - Object of the second block	- NOTH	vonige (0x5546) N		Accelerator pedal module defective	- Replace DME	- UL message: on lamp: off - ECE electronic accine	none	and no processing of accelerator pedal	owing to the reduction in engine output.	none
								Potential problem source(s)			voltage between 9 V and 15 V						power reduction: off - CC message: on				
								Leened in wiring harness between DME and accelerator pedal module			- None Time condition:					- Check wiring harness between DME and accelerator pedal	- US emissions warning lamp: on		 rossole apparent symptoms: Limit on pedal value variation and on maximum absolute value (34.5% pedal) 	Breakdown notice:	
MEVD17.2-	0+2708	Pedal module, pedal sensor 2, electrical: Short	The diagnostic function monitors the voltage of	prime	Throttle/Pedal Position Sensor/Switch Tr Circuit	Dartal Doubles Process	F Frankrad	sensor 2 - Accelerator pedal module	This fault is logged in the control module's fault memory immediately	Terminut 14	- None Other conditions:	Norm	Accelerator pedal sensor 2 Accelerator pedal sensor 2	N	Defect in wiring harness between DME and accelerator pedal module sensor 2 Accelerator pedal module sensor 2	Check voltage supply at accelerator pedal module sensor 2 for 5 V Review evolution	- US electronic engine power reduction: on		 In combination with fault in accelerator pedal sensor 1 or clocking error, increased idle speed and no recession of maximum activity 	It is possible to continue driving the vehicle, but passing maneuvers should not be attempted page to the adduction in continue action.	0.05
arnatu	10003	MONTO M.	ATURO A	FAIM	190	Construction and Ref.	s cancerdil	the voltage at sensor 2 is less than 0.430 V.	cause, consently.		Voltage condition: - Onboard electrical system				Commissional prevent incodelli Demicitive	country more and peak	lamp: off - ECE electronic engine	1008	non-on-promoting of income (into provide only	and a second state of the party	1967
								Potential problem source(x) - Defert in widen horses			voltage between 9 V and 15 V Temperature condition:						power reduction: off - CC message: on		Possible arrowed symptome		
								between DME and accelerator pedal module			- None Time condition:				- Defect in wiring harness between DME and	Check wiring harness between DME and accelerator pedal	- US emissions warning lamp: on		Limit on pedal value variation and on maximum absolute value (34.5% pedal)	Breakdown notice:	
MEVD17.2- BN2010	0x27DC 10254	Pedal module, pedal sensor 2, electrical: Short circuit to earth or line disconnection	The diagnostic function monitors the voltage of sensor 2.	P2127	Throttle/Pedal Position Sensor/Switch T' Circuit	Pedal Position Server	E Electric+4	sensor 2 - Accelerator pedal module defective	control module's fault memory immediately	Terminal 15	- None Other conditions: - none - None	- Norm	Accelerator pedal sensor 2 Accelerator pedal sensor 2 voltage voltage (N+5847)	N	accelerator pedal module sensor 2 - Accelerator pedal module defective - Defective DM ^{II}	- uneck voltage supply at accelerator pedal module sensor 2 for 5 V - Replace accelerator revial	- uS electronic engine power reduction: on - CC message: on	none	 In combination with fault in accelerator pedal sensor 1 or clocking error, increased idle speed and no processing of accelerator vertal data 	 It is possible to continue driving the vehicle, but passing maneuvers should not be attempted owing to the reduction in engine redred 	nore
	10004										Voltage condition: - Onboard electrical system		(MART) N				temp: off - ECE electronic engine		and a second and have read	a constant of anglik balant.	
								The second second second			voltage between 9 V and 15 V Termenature coorditory						power reduction: off - CC message: on				
								apecified for a different fault entry.			- None Time condition:		Accelerator pedal sensor 1				- US emissions warning lamp: on		Possible apparent symptoms:	Breakdown notice:	
MEVD17.2- BN2000	0x27E4 10217	Accelerator-pedal module, pedal-travel sensor Multiple fault	Collective fault: Accelerator pedal module's pedal-travel sensor.					Potential problem source(s) - None	immediately	Terminal 15	- None Other conditions: - none - None	- None	voltage Accelerator pedal sensor 2 voltage none vv	Y	- None	- None	- US electronic engine power reduction: on - CC message: on	Done	Depending on fault source (L4: 10201, 10202, 10203, 10204, 10216; L6: 0x103001, 0x103002, 0x103101, 0x103102, 0x103308)	Depending on fault source (L4: 10201, 10202, 10203, 10204, 10216; L6: 0x103001, 0x103002, 0x103101, 0x103102, 0x103306)	none
								This fault is detected when the voltage differential			Voltege condition: - Onboard electrical system						lamp: off - ECE electronic engine				
								between sensor 1 and sensor 2 exceeds a specific defined value			voltage between 9 V and 15 V Temperature condition:						power reduction: off - CC message: on		Possible accorent symptome-		
								Potential problem source(s)	This fact is here.		- None Time condition:		Accelerator pedal sensor 1 Pedal data sensor 1 voltage			- Check wiring and plug connections	- US emissions warning lamp: on		Limit on pedal value variation and on maximum absolute value (34.5% pedal)	Breakdown notice:	
MEVD17.2- BN2000	0x27E8 10216	plausibility: synchronisation error between signal 1 and Signal 2	The diagnostic function monitors the mutual deviation between the two sensor voltages.	P2138	Throttle/Pedal Position Sensor/Switch 17 / 12 Votage Correlation	Pedal Position Sensor	D/E Correlation	- Accelerator pedal module defective	control module's fault memory immediately.	Terminal 15	Other conditions: - none - None	- None	Accelerator pedal sensor 2 (00045); Accelerator pedal sensor 2 Pedal data sensor 2 voltage voltage (0x5847) N	N	Defective wiring harness Accelerator pedal module defective		reduction: on - CC message: on	none	sensor 1 and/or 2, increased idle speed and no processing of accelerator pedal data	 In the passing maneuvers should not be attempted owing to the reduction in engine output. 	none
								the intake-manifold pressure sensor deviates from the									- FCE animires an				
								sensors (barometric pressure, boost pressure,			Voltage condition: - Onboard electrical system						Lamp: on - ECE electronic engine				
								intake-manifold pressure) by more than 70 mbar.			voltage between 9 V and 15 V Temperature condition:						power reduction: on - CC message: on				
			During the shutdown phase the diagnosis function monitors the DME to determine whether the monitors of the DME to determine whether the second sec					Potential problem source(x) - Defective wiring harness	This faces a first of		- None Time condition:				24		- US emissions warning lamp: off				
MEVD17.2- BN2000	0x280E 10254	Absolute pressure sensor, intake manifold, plausibility: Intake-manifold pressure too high	pressure sensors are measuring the same pressure.	P1250	Manifold Absolute Pressure Too High	Manifold Absolute Pressure Sensor	Pressure	with - Sensor defective	control module's fault memory immediately.	none	Other conditions: - Shutdown phase - None	- 5 sec. after engine of	NO none Y	Y	Sensor has been tampered with Sensor defective	Check wiring harness at sensor Replace sensor	reduction: off - CC message: none	DODE	Possible apparent symptoms: Best case scenario: None	Breakdown notice: - none	none

							the intake-manifold press sensor deviates from the sensors for the measure	une 8										. FCF aminutes warning				
							sensors (barometric pressure, boost pressure intelea-manifold reason of	a, hv		Voltage condition: - Onboard electrical system withing between 9 V and 15								lamp: on - ECE electronic engine nover reduction: on				
			Durine Bauch Managahara Baucharana				more then 70 mber.			V Temperature condition:								CC message: on US anisairon warring				
MUDITA			Surg the anabown prease the diagnosis function monitors the DME to determine whether the ambient-sit, intake-manifold and boost- meaning company company the series		Manifold Abard do Dessays France V		Defective wiring harnes Sensor has been tampe	is red This fault is logged in the		- None Time condition: - 5 sec. after engine off						Defective wiring harness	Chevel within barray of several	lamp: off - US electronic engine power			Providence active:	
BN2000	0x280E 1025-	Addoubt pressure senior, inske manico, plausibility: Intake-manifold pressure too high	pressure sensors are measuring the same pressure.	P12A5	Afternanning Diagnosis Pressure Too High	Manifold Absolute Pressure Sensor After	erunning - Sensor defective The fault is recognized with	memory immediately.	none	- Shutdown phase Voltege condition:	- None	- 5 sec. after engine off NO		none Y	Y	- Sensor has been tampered with - Sensor defective	- Creck wring names at sensor - Replace sensor	- CC message: none lamp: on	none	Best case scenario: None	- none	none
							the votage of the baronel pressure sensor > 4.5 \	trio- /.		Onboard electrical system voltage between 9 V and 15 V							- Chark sininfurtion system (asstanste atr.)	ECE electronic engine power reduction: on CC message: on				
							Potential problem sources - Internal DME fault, becau	(8)		Temperature condition: - None							Check air-induction tract between turbocharge and intake-air plenum	- US emissions warning				
MEVD17.2-		Absolute pressure sensor, intake manifold,	The diagnostic function monitors the DME's				is located in the DME EC sensor voltage above	2); This fault is logged in the control module's fault		- 5 sec. after engine off Other conditions:						 Internal DME fault, because berometric- pressure sensor is located in the DME ECU; 	pressure sensor - Boost-pressure sensor	- US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x280F 10255	5 plausibility: Intake-manifold pressure too low	berometric pressure sensor.	P1255	Manifold Absolute Pressure Too Low	Manifold Absolute Pressure Sensor Pr	the solution of the barometers	memory immediately.	none	Shutdown phase Voltage condition: Onboard electrical system	- None	- 5 sec. after engine off NO		none Y	Y	sensor voltage above threshold;	- Replace DME	- CC message: none lamp: on - ECE electronic engine	none	Best case scenario: None	- 1018	none
							pressure sensor > 4.5 \	£.		voltage between 9 V and 15 V							Check air-induction system (wastegate, etc.)	power reduction: on - CC message: on				
							Internal DME fault, becau barometric-pressure serveret.	ase sor		- None Time condition:							and intake-air plenum - Check wiring harness between DME and boos	- US emissions warning I- Lamp: off				
MEVD17.2- BN2000	0x280F 10255	Absolute pressure sensor, intake manifold, 5 plausibility: Intake-manifold pressure too low	The diagnostic function monitors the DME's barometric pressure sensor.	P1244	Manifold Absolute Pressure Sensor 'A' Afternaming Diagnosis Pressure Too Low	Manifold Abaolute Pressure Sensor After	is located in the DME EC sensor voltage above munning threshold:	U; This fault is logged in the control module's fault memory immediately.	0016	- 5 sec. after engine off Other conditions: - Shutdown phase	- None	- 5 sec. after engine of NO		none Y	Y	 Internal DME fault, because barometric- pressure sensor is located in the DME ECU; sensor voltage above threshold; 	- Boost-pressure sensor - Replace DME	US electronic engine power reduction: off - CC message: none	DECE	Possible apparent symptoms: Best case scenario: None	Breakdown notice: - 1004	Date
							the voltage of the intake manifold pressure sense exceeds 4.8 V.	27		Voltage condition: - Onboard electrical system								ECE emissions warning lamp: on ECE electronic engine				
							Potential problem source	00		voltage between 9 V and 15 V								power reduction: on - CC message: on				
							Detect in wing names between DME and intak manifold pressure sense	a 8- 27		- None Time condition:						- Defect in wiring harness between DME and	- Check wiring harness between intake-manifol	- US emissions warning d lamp: off				
MEVD17.2- BN2000	0x251A 1025	Absolute pressure sensor, intake pipe, electrical: 5 Short circuit to B+	The diagnostic function monitors the intake- manifold pressure sensor's upper voltage limit.	P0106	anifold Absolute Pressure/Barometric Pressure Sensor Circuit High	Manifold Abaolute Pressure Sensor Ele	echical - Intake-manifold pressur sensor defective - Defective DME	re This fault is logged in the control module's fault memory immediately.	Terminal 15	- None Other conditions: - tone	- None	- Nome NO		Read test data block; ID 4AB8 (BN2020), 5AB8 (BN2000) N	N	Intake-manifold pressure sensor - Intake-manifold pressure sensor defective - Defective DME	ressure sensor and DME Replace intake-manifold pressure sensor Replace DME	US electronic engine power reduction: off - CC message: none	DECE	Possible apparent symptoms: Engine runs roughly	Breakdown notice: None	None
							the voltage of the intake manifold pressure sense encents 4.5 V	- 27		Voltage condition:								ECE emissions warning lamp: on ECE electronic envire				
							Potential problem source	00		voltage between 9 V and 15 V								power reduction: on - CC message: on				
							between DME and intak manifold pressure sense	8- 27		None Time condition:						- Defect in wiring harness between DME and	- Check wiring harness between intake-manifol	- US emissions warning d lamp: off				
MEVD17.2- BN2000	0x281A 1025	Absolute pressure sensor, intake pipe, electrical: 6 Short circuit to B+	The diagnostic function monitors the intake- manifold pressure sensor's upper voltage limit.	P119A	anifold Absolute Pressure Sensor Circuit High (Bank 1)		- intere-manifold pressu sensor defective - Defective DME	control module's fault memory immediately.	Terminal 15	- None Other conditions: - none	- None	- None NO		(BN2000) N	N	Intake-manifold pressure sensor defective Orfective DME	Pressure sensor and Date Pressure sensor Replace Intake-manifold pressure sensor Replace DME	- US electronic engine power reduction: off - CC message: none	none	Possible apparent symptoms: Engine runs roughly	Breakdown notice: None	Norm
							the voltage of the intake manifold pressure sensor less than 0.2 V.	- **		Voltage condition: - Onboard electrical system								ECE emissions warning lamp: on ECE electronic engine				
							Potential problem source	00		voltage between 9 V and 15 V								power reduction: on - CC message: on				
							between DME and Intak manifold pressure senso	20- 27 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20		- None Time condition:				Read had date Maste		Defect in wiring harness between DME and bitistic granifield excessors	- Check wiring harness between intake-manifol	- US emissions warning d lamp: off				
MEVD17.2- BN2000	0x2818 1025	Absolute pressure sensor, intake pipe, electrical 7 Short circuit to earth	The diagnostic function monitors the intake- manifold pressure sensor's lower voltage limit.	P0107	anifold Absolute Pressure/Barometric Pressure Sensor Circuit Low	Manifold Absolute Pressure Sensor Els	echical - Interventation pressu sensor defective - Defective DME	control module's fault memory immediately.	Terminal 15	- None Other conditions: - none	- None	- None NO		Read Selet Casta DioCK; ID 44888 (BN2020), 54888 (BN2000) N	N	Intake-manifold pressure sensor defective Ordective DME	Replace intake-manifold pressure sensor Replace DME	- US electronic engine power reduction: off - CC message: none	none	Possible apparent symptoms: Engine runs roughly	Breakdown notice: None	None
							the voltage of the intake manifold pressure sensor less than 0.2 V.	- **		Voltage condition: - Onboard electrical system								ECE emissions warning lamp: on ECE electronic engine				
							Potential problem source	00 m		voltage between 9 V and 15 V Temperature condition								power reduction: on - CC message: on				
							between DNE and intak manifold pressure served	a- ar This facts is to		- None Time condition:				Read test data Music		Defect in wiring harness between DME and Intelexent find ensurements	- Check wiring harness between intake-manifol	- US emissions warning d lamp: off				
MEVD17.2- BN2000	0x2518 1025	Absolute pressure sensor, intake pipe, electrical 7 Short circuit to earth	The diagnostic function monitors the intaka- manifold pressure sensor's lower voltage limit.	P1198	tanifold Absolute Pressaure Sensor Circuit Low (Bank 1)		- insike-manifold pressu sensor defective - Defective DME	control module's fault memory immediately.	Terminal 15	Other conditions: - none	None	- None NO	5 6	(BN2000) N	N	Intake-manifold pressure sensor defective Defective DME	- Replace intake-manifold pressure sensor - Replace DME	- CC message: none	none	Possible apparent symptoms: Engine runs roughly	Breakdown notice: None	None
										Voltage condition: - Onboard electrical system voltage between 9 V and 1*								ECE electronic engine power reduction: cm				
							The fault is recognized wi the barometric pressure senser's sized under a fin	hen a		V Temperature condition: - None								- CC message: on				
							below 4.5 V.	This fault is logged in the		Time condition: - None								lamp: off - US electronic engine power				
BN2000	0x283C 1030	0 or open circuit	barometric pressure sensor.	P2229	Barometric Pressure Sensor 'X' Circuit High	Ambient Pressure Sensor Ele	ectrical - DME defective	memory immediately.	Terminal 15	- none Voltege condition:	- None	- None NO		u N	N	- DME defective	 Cear the ECU taut memory, it the diagnosis fault code is logged again, replace the DME. 	- CC message: none lamp: on	none	MIL on, customer proceeds to service facility	None	None
										Onboard electrical system voltage between 9 V and 15 V								ECE electronic engine power reduction: on CC message: on				
							The fault is detected by th internal calculation	he		Temperature condition: - None								- US emissions warning				
MEVD17.2-		Ambient pressure sensor, electrical: Short circuit	The diagnostic function monitors the DME's				Potential problem source	(s) This fault is logged in the control module's fault		- None Other conditions:							- If the diagnostic fault code has been logged	- US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
542000	012830 1030	1 10 64771	carometric pressure sensor.	1222	barchetic Pressure Sensor A Circuit Low	Anders Pressure Sensor	the barometric-pressure sensor deviates from the	e	Terminae 15	Voltage condition:	- NODE	- Nona No		0 N	n	- DME DIRECTVA	more than 3 times repaide the DALC.	- ECE emissions warning lamp: on	nore	MIL OIL CLEISTHEF PRODUCE TO SERVICE TECHTY	NON	NON
							average for the pressure sensors (barometric pressure, boost pressure			- Onboard electrical system voltage between 9 V and 15 V								ECE electronic engine power reduction: on CC message: on				
			During the control module's shutdown phase the diagnostic function monitors the barometric- measure sensor, intelexmential measure				intake-manifold pressure) more than 70 mbar.	by		Temperature condition: - None Time condition:								- US emissions warning				
MEVD17.2-		Ambient pressure sensor, overrun: Pressure Ico	sensor and boost-pressure sensor to determine whether they are all measuring the same		Ambient Pressure Sensor Afternunning		Potential problem sources - Error in sensor	(s) This fault is logged in the control module's fault		- 5 sec. after engine off Other conditions:						- Error in sensor measurement	- If the diagnostic fault code has been logged	- US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
542000	062841 10305	o ngn	printers	1/200	Linghosa Pressure Too regn	Ambern Pressure Sensor Ame	the boost-pressure senso voltage is < 0.2 V.	nencry immediately.	none	- Sristopen prase Voltage condition: - Onboard electrical system	- NODE	- 5 sec. and engine on NO		none N	n	- Senace detective	more than 3 times repaide the DALC.	Iamp: on ECE electronic engine	nore	NOTE	- 1014	NON
							Potential problem sources	(8)		voltage between 9 V and 15 V Temperature condition:								power reduction: on - CC message: on				
							between DME and boos pressure sensor	r This fault is lower in the		- None Time condition: -5 sec. after enviro off						Defect in wiring harness between DME and hond-messure sensor	. Benjane the DMF if the fault mule is correctly	US emissions warning lamp: off US electronic environment				
MEVD17.2- BN2000	0x2542 1030	6 Ambient pressure sensor, overrun: Pressure too	The diagnostic function monitors the voltage at the boost pressure sensor.	P1288	Ambient Pressure Sensor Afternunning Diagnosis Pressure Too Low	Ambient Pressure Sensor Afte	inuming - Defective DME	control module's fault memory immediately.	none	Other conditions: - Shutdown phase	- None	- 5 sec. after engine off NO		none N	N	Boost-pressure sensor defective Defective DME	present or has been logged more than three times	reduction: dright point - CC message: none	Dane	Possible apparent symptoms: None	Breakdown notice: None	None
							No electrical tault in barometric pressure sen (PUEmax, PUEmin)	sor		Voltage condition: - Onboard electrical system								ECE emissions warning lamp: off ECE electronic engine				
							Potential problem sources - Barometric pressure sen	(x): Isor		voltage between 9 V and 15 V Temperature condition:								CC message: none MY11 US:				
							installed in DME ECU; sensor voltage above threshold	This fault is logged in the		- None Time condition: - None						- Barometric pressure sensor installed in DME	- Replace the DME if the fault code is currently	US emissions warning lamp: on US electronic engine power				
MEVD17.2- BN2000	0x284C 1031	6 Ambient pressure sensor, plausibility: Pressure 6 too high	The diagnostic function monitors the barometric- pressure sensor.	P11CB	Barometric Pressure Too High	Ambient Pressure G	- DMEI defective owing t internal fault	to control module's fault memory immediately.	Terminal 15	Other conditions: - none	- None	- None NO		none Y	Y	ECU; sensor voltage above threshold - DME defective owing to internal fault	present or has been logged more than three Stress	reduction: off - CC message: on	none	Possible apparent symptoms: None	Breakdown notice: None	A terminal status switch must be conducted before this fault can be deleted.
										Voltage condition: - Onboard electrical system							- Check wiring harness between electric fan	- ECE ensistent warring lamp: off - ECE electronic engine				
							The fault is recognized wi a short circuit is present	ben L		voltage between 9 V and 15 V Temperature condition:							- Check cutoff relay and DME - Check cutoff relay (when Terminal 15 is off then 0 V should be present at both screw	- CC message: none MY11 US:				
							Potential problem source - Defective wiring harner	(s) This fault is logged in the		- None Time condition: - None							connections (MS). When activated the relay should click loudly, while virtually no resistance (0 ohms) should be measured between the	- US emissions warning lamp: on - US electronic engine power				
MEVD17.2- BN2000	0x284D 1031	7 Ambient pressure sensor, plausibility: Pressure 7 too low	The diagnostic function monitors the barometric- pressure sensor.	P0129	Barometric Pressure Too Low	Ambient Pressure G	- Cutoff relay for electric fa defective	in control module's fault memory immediately.	Terminal 15	Other conditions: - none	- None	- None NO		none Y	Y	Defective wiring hamess Cutoff relay for electric fan defective	screw connections - Replace cutoff relay	reduction: off - CC message: on	none	Possible apparent symptoms: None	Breakdown notice: None	A terminal status switch must be concluded before this fault can be deleted.
										Voltage condition: - Onboard electrical system								lamp: off - ECE electronic engine				
							The fault is recognized			V Temperature condition:								- CC message: none MY11 US:				
			The diagnostic function monitors the plausibility				variations in the value.	This fault is logged in the		- None Time condition: - None							- Replace the DME if the fault code is currently	- US electronic engine power				
MEVD17.2- BN2000	0x284E 1031	8 Ambient pressure sensor, plausibility: Pressure 8 implausible	of the becometric preasure relative to that measured in the previous driving cycle.	P1247	Barometric Pressure Plausibility	Ambient Pressure Pla	Potential problem sources - DME defective	(s): control module's fault memory immediately.	Terminal 15	Other conditions: - none	- None	- None NO		none Y	Y	- DME defective	present or has been logged more than three Simes	- CC message: on - ECE emissions warning	none	Possible apparent symptoms: None	Breakdown notice: None	A terminal status switch must be conducted before this fault can be deleted.
										Voltage condition: - Onboard electrical system								lamp: off - ECE electronic engine				
							The first is suspended at			V Temperature condition:								- CC message: none MY11 US:				
							the value remains consta	nt. This fault is logged in the		Time condition: - None							- Replace the DME if the fault code is currently	lamp: on - US electronic engine power				
MEVD17.2- BN2000	0x254F 10311	Ambient pressure sensor, plausibility. Pressure 9 implausible	The diagnostic function monitors variations in the barometric pressure reading for plausibility.	P1247	Barometric Pressure Plausibility	Ambient Pressure Pla	Potential problem sources unability - DME defective	(s) control module's fault memory immediately.	Terminal 15	Other conditions: - none Voltage condition:	- None	- None NO		none Y	Y	- DME defective	present or has been logged more than three Simes	- CC message: on	0208	Possible apparent symptoms: None	Breakdown notice: None	A terminal status switch must be conducted before this fault can be deleted.
							The fault is recognized wi	ben		- Onboard electrical system voltage between 9 V and 15 V												
							the relationship between indicated intake manifol pressure and the mass	id i		- 30°C < intake-air temperature < 120°C												
							airflow calculated based finotile-valve angle is no correct.	on at		30°C < coolant temperature Time condition:								- ECE emissions warning				
							Potential problem source - Manuard value for inter	003 Am		- None Other conditions: - Engine on							Check intake system and crankcase for leakage Check throttle value (conternation, content	ECE electronic engine				
							manifold pressure (absolu too high	de)		Pressure drop at throttle valve exceeds 15 hPa Toth/Ra							deposits, icing) - Check plug and wining harness between intake	- CC message: on				
			The diagnostic function monitors the throttle valve aperture and the current intake manifold				induction tract/crankcas - Incorrect throttle-valve	e This fault is logged in the		- 500 rpm < engine speed <	- 30°C < intake-air temperature < 120°C					(absolute) too high - Vacuum leak within induction tractionankcase	Check plug, wring harness at electric throttle- valve actuator	lamp: off - US electronic engine power				
BN2000	0x28A0 10400	0 correlation: Limit value exceeded	mutually plausible.	P112F	Too High (Bank 1)	Manifold Absolute Pressure Con	relation - Pressure sensor defects the relationship between	memory immediately.	none	- 133 rpm × dynamic rpm	temperature	- Norm NO		none Y	Y	Pressure sensor defective	Replace throttle value Replace throttle value	- CC message: none	none	- none	- rone	None
							indicated intake manifol pressure and the mass airflow calculated based	d n														
							throttle-valve angle is no correct.	*		Voltage condition: - Onboard electrical system voltage between 9 V and 15							- Check intake system and crankcase for	- ECE emissions warning lamp: on				
							Potential problem sources - Measured value for inta manifold pressure (abods	(x) ka da)		V Temperature condition: - None							leakage - Check throttle valve (contamination, carbon deposits, icing)	ECE electronic engine power reduction: on CC message: on				
			The diagnostic function monitors the throttle				is too low - Defective plug or winn harness	•		Time condition: - None Other conditions:						Measured value for intake manifold pressure (absolute) is too low Defective plug(s) or witho herress	Check wiring harness between intake-manifoli pressure sensor and DME Check plus, wiring hanness at electric throttle	d - US emissions warning lamp: off				
MEVD17.2- RN2750	0x2541	Throttle-valve angle - intake-manifold pressure, correlation-1 instruction and manafed	valve aperture and the current intake manifold pressure reading to determine whether they are mstaultiv releasible	P1126	Manifold Absolute Pressure to Throttle Angle - Too Lrw (Revir 1)	Manifold Absolute Pressure	Vacuum leak within induction tract/crankcas	e control module's fault		Ergine on Pressure drop at throttle valve exception 18 M ²	- None	- Norm		10010	Y	Vacuum leak within induction tracticrankcase Incorrect Brottle-valve angle Program samerar defaults	valve actuator - Replace pressure sensor - Review litvollo	- US electronic engine power reduction: off - CC message		Possible apparent symptoms:	Breakdown notice:	Norm
	1.042	to more than the source of					the signal from throttle val sensor 1 rises above the	ve		Voltage condition:		NU						- ECE emissions warning lamp: off				
							fault threshold of 4.75 V Potential problem sources	t. 003		Onboard electrical system voltage between 9 V and 15 V								ECE electronic engine power reduction: off CC message: on				
							Defect in wring harnes between throttle-valve actuator motor ar-1 DM			Temperature condition: - None Time condition:						- Defect in wiring harness between throttle-velve	- Check using harness between DME and	- US emissions warning lamp: on			Breakdown notice:	
MEVD17.2- BN2000	0x2844 10***	Throttle valve, throttle valve potentionrater 1, electrical: Short to B+ or orean circuit	The diagnostic function checks the signal from throttle valve actuator 1 for electrical faceho	P0123	hrottle/Pedal Position Sensor/Switch 'A' Circuit High	Throttle Position Senaor	Throtte-valve sensor defective AD remember on ** Pe	This fault is logged in the control module's fault memory improviately	Terminal 15	- None Other conditions: - none	- None	- None STE	EUERN_DK, EUERN_ENDE_DK, S ATUS_DKP VOLT	Sensor 1 voltage: 0.5 V (0x584E)	N	actuator motor and DME - Throttle-valve sensor defective - AD converter inout in DMI reference	throttle valve - Replace throttle valve - Replace (MM)	US electronic engine power reduction: on CC message: rm	none	Possible apparent symptoms: - Reduced poyer	 It is possible to continue driving the vehicle, but passing maneuvers should not be attempted owing to the reduction in arring over 4 	none
		or open calcul	a the second lines.				the signal from throttle val sensor 1 fails below the fa	ve ut		Voltage condition:		514					- Coperation of Webs	- ECE emissions warning lamp: off				
							threshold of 0.22 V. Potential problem source	003		- unboard electrical system voltage between 9 V and 16 V								ECE electronic engine power reduction: off CC message: on				
							Defect in wiring harnes between throttle-valve actualor motor and DM			Temperature condition: - None Time condition:						- Defect in wiring harness between throttle-valve	- Check wiring harness between DME and	- US emissions warning lamp: on			Breakdown notice:	
MEVD17.2- BN2000	0x25A5 10474	Throttle valve, throttle valve potentionneter 1, 5 electrical: Short circuit to earth	The diagnostic function checks the signal from throfile value actuator 1 for electrical faults.	P0122	Trottle/Pedal Position Sensor/Switch W Circuit	Throthe Position Sensor	Throttle-valve sensor defective - AD converter ince in Di	This fault is logged in the control module's fault memory imprediately.	Terminal 15	- None Other conditions: - none	None	- NDOM STEP	EUERN_DK, EUERN_ENDE_DK, S ATUS_DKP_VOLT	Sensor 1 voltage: 0.5 V (0x554E) N	N	actuator motor and DME - Throttle-valve sensor defective - AD converter input in DME defective	trottle valve Replace throttle valve Replace DME	US electronic engine power reduction: on <u>CC message</u> : on	0008	Possible apparent symptoms: - Reduced poyer	 It is possible to continue driving the vehicle, but passing maneuvers should not be attempted owing to the reduction in ensine outpr# 	0008
							the signal from throttle val sensor 2 rises above the	ve .		Voltage condition:								ECE emissions warning lamp: off ECE emissions				
							fault threshold of 4.77 V Potential problem source			voltage between 9 V and 15 V								- ELE electronic engine power reduction: off - CC message: on				
1							Defect in wiring harnes between throttle-valve actuator motor ar-4 DMI			Temperature condition: - None Time condition:						- Defect in wiring harness between throttle-web-	- Check wiring harness between DME and	- US emissions warning lamp: on			Breakdown notice:	
							- Throttle-valve sensor	This fault is logged in the control montplate fault	1	- None Other conditions		STE	EUERN_DK	Voltage sensor 2: 0.5 V		actuator motor and DME - Throttle-valve sensor defective	throttle valve - Replace throttle valve	- US electronic engine power reduction: on		Drophie arrowert summirms	- It is possible to continue driving the vehicle,	1
MEVD17.2- BN2000	0x28A8 10400	Throttle valve, throttle potentiometer 2, 8 electrical: Short circuit to B+	The diagnostic function checks the voltage of throttle valve sensor 2 for electrical faults.	P0223	hrotteiPedal Position SensorSwitch & Circuit High	Throttle Position Senior	2 - AD converter input in Di	IE memory immediately.	Terminal 15	- none	- None	- None STA	ATUS DKP VOLT	(Dx584C) N	N	- AD converter input in DME defective	- Replace DME	- CC message: on	none	- Reduced power	owing to the reduction in engine output	none

MEV017.2- BN3000 0x2849	Treate wire, treate physicsness 2, electroit 2 for could waith or the 1959	The disposit function checks the unitage of Booth uniter source 2 for capitod faults. PDD	TroduPut/Put/Pation Second alth V Deut	Thirds Parkon Tarear 2	the signal from thretile valve sense 2 fails below the fault treashold of 0.22 V. Potentia pottom sociedly Defect in wiring homess between throttle-valve actuator motor and DNE - Thretic-valve sense defactive - AD converter reput in DNE	The facts larger in the metric models has memory immediately. Territori 15	Voltage condition. - Octoard statistical system while between D V and 10 - None - None	STE STE - Norm STA	10000, DS 10000, DSBC, JK, Volkey events 2 0.5 V 1005, DSP-V027 (6:0546)	- De	efect in wing harreas between Postle-valve actuator notor and DAE - Throttle-valve sensor directive - AD convertier rigid in DAEE defective	Orack using harmas between DME and Profile value Proposed on the Proposed DME	ECE emissions warring larp; off ECE electronic engine pour noduction: off - CC massage: on - US ensistences warring larp; on - US electronic engine power - US electronic engine larp; on - ECE electronic engine	nore	Peaklo speciel symptoms - Reliced power	Breakforen nofoce: - 1 la possible to contraus diving the antibioli, thut passing the transition of the antibiolity using to the reduction in angine solitor.	1976
MEVD17.2- BN2000 0x2880	10416 Throthe valve: Ling-hone operating mode addres	P14	of Threate Value Ling Home Bloke Active	Theofis Ling Hore	Potential problem acurce(x) o voltages from sensors 1 and 2 accords a value defined in the application (chreatedation) curve) the fault is curve) the fault is		Voltege candition: Time analistic: The condition: Other conditions: Voltage candition: - Other of selection' system polytage balance of Vach 15		- None		0	0	power reduction: on - CC message: on - US electonic angles power reductor: on - CC message: on -	new for 1-10-63-450	Possible apparent symptoms:	Braakdown rollox	
MEVD17.2- BN2000 0x2884	Throttle value, Prottle polaritometer plantition Timing fault between polaritometer 1 and polaritometer 2	The disposite function monitors the mutual deviation between the two sensor voltages. P11	Therdia/Polid Plaston Sensor/Settl, Y / F Synchronous Operation Consisten (Bank 1)	Throfile Position Series Consider	Potential problem source(v); - Dielect in winny harmana between throttle winny - Throttle winny - Throttle winny - Throttle winny - Throttle winny - Potential problem source(v); - Defective winny harmas	The fixed is toged in the costor motivals fixed memory immediately. Terminal 15	Tergenzare confider: -Nova Time anafolio: -Nova	Acco volt Acco - None volt	skindor pedal sensor 1 Podal data sensor 1 voltage nga (p.dd.4), (- De	efect in wing harrens behven throtte valve potentionater and DME - Throtte valve potentionater defective	Orack wing harness between throttle valve potentionwher and DME Replace throttle valve potentioneter Orack wing harness between DME and profile valve	- US entiasions werning lamp: on - US electoric engine power reduction: on - CC message: on - ECE electoric engine power reduction: on - CC message: on - US entiacions werning	none	Possible apprend syndrom: - Link or predivale variation and on maximum absolutie value (245% peeld) - in combination the fault in accelerator pedid sensor 1 and/or 2, increased of la speed and no processing of accelerator pedid data	Breakdown notoc: - It is pasable to continue diving the vehicle, tod passing maneuvers should not be attempted owing to the reduction is engine output.	None
MEVD17.2- BNG000 0x2858	DME, Internal fault, activation of thretile value: 19924 Dihot citosi	The degreads fandion monitors the driver stated controlling spanning of the function of the	Si Throthe Adultor X Carbol Mate Cloud High	Throthe Actuator Control Motor	between DME and hottle valve - Defactive throttle valve - Defactive throttle valve - Defactive DME The text is detacked by the internal calculation algorithms. Potential problem successful - Defactive winny tarness between DME and hottle valve	The fault is logged in the control module's fault resolution of the second strength of the	The condition: -Nove Other conditions: - Content -	STE STE - Nom STA	LUEPH, DK, DC, DK, DDB, DDB, DK, DK, DDB, DK, DK, DC, DK, DC, DK, DC, DK, DC, DK, DC, DC, DC, DC, DC, DC, DC, DC, DC, DC	E	Defective withing harmass between DME and throttler within - Defective throttler value - Defective DME Defective withing harmass between DME and throttler value	Replace brother subs Propries the DUE of the fault meniate present continuously or if the fault hequency is gradient plan. 3 Check winting harmess between CMME and Propries who the Replace brother subs	lang: on - US electoric angine power nductor: on - Comsesser, on - Comsesser, on - ECE electoric angine power reductor: on - CO message: on - CO message: on - CO message: on - CO message: on - US electoric angine power lang: on - US electoric angine power	nace	Possible apparent symptom: - Loss of power - Speed Initiation Possible apparent symptom:	Breakdown notice: - Asility to continue driving in restricted bacause engine speed is insted is roughly 1302 rpm. Breakdown notice:	- 1008
MEVD17.2- BN2000 0x2889 MEVD17.2- BN2000 0x288A	DME, internal fault, activation of threatile value: 10435 Ecoses langerations or convert too high EDME, internal fault, activation of threatile values Identic communication fault	The diagnostic function motions the driver orbit controlling agestion of the Norder value, 721 The diagnostic function motions the driver orbit controlling agestion of the Norder value, 700	These Acate X Const Marc Curvet Is Range Performance Is Internal Const Markon These Acatement To Constaller Performance	Threfs Actuaty Control Max	Defective threater value Defective DME The fault is detacted by the internal calculation algorithms. Potential problem source(k) -DME defective	onshirodaki faat menoy immediatey. Ternina 15 The faad is topped in the contact motack faat	Other conditions	- Norm STE STA	ULERINE_ENDE_DK. TUUS_DEP_VOLT nove ULERINE_DK. ULERINE_ENDE_DK. ULERINE_ENDE_DK.	N	Defective frontile value Defective DME Defective DME DME defective	present continuously or if the fault frequency is grader than 3.	eduction: on - CC message: on - CC message: on - ECE electronic engine power relations warning lang: on - US entitations warning lang: on - US electronic engine power reduction: on - CC message: on	nore	Loss of power	Ability to continue driving in restricted because engine speed is londed to roughly 1300 rpm. Breakdown notice: Ability to continue driving in restricted bacause engine speed in lande for coughly 1300 rpm.	- rone - rone
MEVD17.2- BN2000 0x2888	DME, Internal fault, activation of throttle value: 10427 Line disconnection	The disposed function remains the driver and consulting specified of the hosts value. F21	20 Therite Actualry X Control Motor Circuit/Quer	Trolle Adulty Control Mater	The fault is detected by the internal calculation align/thms. Potential problem source(s); - Defective winty problem source(s); - Defective sinter value - Defective threffs value - Defective threffs value - Defective threffs value - Interior CME the fitnettie value does not return to an apartice of the	This fault is logard in the control module's fault memory immediately. Terminal 15.	Volge annalton - Oracia elicitori system valtage between 3V and 5V Verynear anna condition: Verynear anna condition: - None Other conditions - Ione - None - None	STE STE - None	LUDIN, DK, LUDIN, ENDE, DK, TUS, DKP, VOLT rom.	- E	Defective wiring harmans between DME and throttle valve - Defective Envite - Defective DME	Orack widing harmess between CME and Brotellik solve Replace throttle walve Only reglace throttle (the fault annulase present continuously or if the fault hequarcy is greater than 3	Lange on - ECE electronic engine power relations on - CC message: on - US electronic engine power reductors on - CC message: on	nore	Posible apparent syngtoms: - Los of power - Speed Initiation	Dreakdown notice: - Ability to continue driving in reiniciant functures engine space is limited to roughly 1300 pm.	- 1078
MEVD17.2- BN2000 0x288C	Throthe value actuator, closing spring leaf: 1022 Cancellations of check, spring close not chem.	During the service land the dispersion bunchs matrix the the fundaments whether it is the fundament of the service of the service that the table matrix the strategies to being the specifical particle during on schape to being	Those Value Adaptation Spong Teel Failed	Troth Adulto Adulto	But roughly 10% within 50% mm when voltage in not being applied to the unit. Potential problem source(ii) - Stiction in valve - Rotars party defector Defect in wing harmess between hords-valve actuator motor and DME - Defector theretis-valve actuator goldz.	D This fault is logged in the control modules fault memory investigative. Terminal 15	Volkge condition - Observal stactical system philips belaves 70 web 15 Temperature conditions - None Temperature conditions - Regine on - Volkelow allowithouth - Nones	- Nove NO	7004	-Da	- Stiction in valve - Ratum spirg delictive sfect in vitrig harmans between throtte-valve actuator notice and CMMC - Stefacture throtte-walve actuator motor	Onck widny termes between CME and Profile wine - Use tester to activate threfolds wine and obcerva its reaction 1- Onck threffler wine for contamination and foreign objects - More throttler wine ty hand, checking for - maintaines in motion and oxing how quickly it cases when released - Realizes Active on the released -	ECE emissions warring lanp: on ECE electronic engine power revisions: on - CC messages: on - US electronic engine power revision: engine power electronic engine power electronic engine power engine CC message: on	nste	Possbie apparent symptoms: - Refaced zoowr	Drawkdrown notice: - It is possible to continue driving the vehicle, four parang memowers all out of an administed oweng to the vehiclen on exprint could could be a set of the set of the set of the set of the set of the set of	nore
MEVD17.2- BNG000 0%288D	Throttle valve actuator, chaing sping last: 19429 Pauli during sping check	During he sping led the disprotific function monitors the third start wire to determine all other if seather the spindling points match the end of the spindling points. P14	21 Thesila Voleo Actuator Oping Teel (Bank 1)	Throfile Actuator Spring Test	be threfle value fails to achieve an effective aperture of roughly 20% within 140 ms. Potential problem source(s) . Batics in thredfe value . Defactive withing harmass between throtthe-value achatom throtte value achatom throtte value . Defactive throtte-value	This fault is logad in the control modules fault memory immediately. Territrial 15	Voltage condition: - Officer at electron (rystem V) V planets V and 16 V Ferreparture condition: - None - None - Other conditions: - Ergine ato: - Voltasis welcar-p- Danh - Manuel - Voltasis welcar-p	- None NC	1018	v - De	Disclos in Brodla valve Patarn spring detables Rearn spring detables Patarn string and the source actuator motor and DME Defective threttle valve actuator motor	Orack wing harness between DME and Brottle value Out to be a solution of the solution of the solution observe its reaction Orack therefore wink for containingtion and - Orack therefore wink for containing the solution for resultations for motion and motion plane quickly it clease them initiated - Replace threfore-walks actuator motor	ECE entraistra varring lang: on ECE electronic engine power induction; on - CC message: on - US entraistons warring lang: on - US electronic engine power reduction; on - CC message: on	nore	Possible appearent symptoms: - Reduced power	Evalution refers - It is possible to certitiva driving the vehicle, tud paratry measures should red bar attempted owing to the reduction in engine output.	none
MEV017.2-	Throttle valve inclusion, opening spring least	During the spring lead the disprovinc function monitors the thermality value is disproving whether it instance to the emergency air particular whites the speciality price where values are larger	Those Value Achier Spring Tree Stop, Spring		relum to an aperture of more than 7.4% within 550 ms when voltage in not being applied to the unit. Potential problem source(s) - Siccion throttle valve - Return spring defactive - Defact wring harmess between throttle-valve actuator motor and DME - Defactive throttle-valve	The full is logged in the control models's fault	Notage condition - Desear Alectrical system callege belanes V V Temperature confidenc - forme - None Cher confidence - Ergine co.			-De	- Stacton in throttle valve - Return sporg delactive sectator motion and DML actuator motion and DML	Check wing harness between DME and PortIfe valve	ECE entasions warring lamp; on ECE electronic engine power reduction; on - CC messages; on - US ensaigns; warring lamp; on - US electronic engine power reductor; on		Possible apparent symptoms:	Breakdown notice: - It is possible to continue driving the vehicle, Sod pasary manusuma should not be attempted	
MEVD17.2-	Treate whe actuator, opening some ready	During the spring lead the dispractic function monitors the functional section and section the section of the s	or Deskrift upper jaker 1)	19756 AGam 5997 18	actuator relative valve fails to reach a position of less than 2.5 x x and more than 0.4 % opening within 200 ms. Potential problem socracity - Staction in throatle valve - Defacting problem socracity - Defacting writing harmess between throatle-valve actuator roots and OME	This faul is logged in the antidi models' faul	, version weeks version		1004	- De	- Jenschve freide valve adjuetr redor - Stiction in Brottle valve - Return spörg detective - Return spörg detective adjuator state bottle-valve adjuator redor and DME	register inter-wave accusor income - Oreck uning harmess between DME and rectific value - Check thereis a between DME and rectific value - Check thereis a between the reaction - Check thereis who for contain-invited resultance to motion and online there yield - Check thereis we by hard, checking for resultance to motion and online there yield wide check who hinks add	- CC massage: on - ECE entasions warring lang: on - ECE elactorial engine power reduction: on - CC massage: on - US entasions warring lang: on - US entasions on	none	- netodos poer	owng to the resident number output	1078
882000 0428C1	1043 Pauli durng sping check	emigracy or part which has pushed tree. 716	28 okry Openig (Ben 1)	Throbe Actuator Spring Teal	Classifier threfore threfore values for the emergency are point are determined to be less than 1.8% or larger than 10%, during the adaptation process. Potential problem source(n) - Dated: in wing harmess between throttle-wine actuator motor and DME - Detectraminution one	nencry inmediately. Terrinal 15	Verlage condition Verlage condition Verlage condition Verlage condition Verlage	- None NO	rone	- De	- Delective throttle-valve addustor motor - election witing harmess between throttle-valve addustor motor and DME - Difficient/arvivalve	Replace Brothe-wake actuator motor Replace Brother shows a coustor motor Distantial autorement of couply a "planta" does not be an appending of couply 3" plantad coused waters under plantad coused waters angles Vasau Impaction of throther wake and induction system for conternation	- CC message: on - ECE emissions werring large on - ECE electronic engine power reduction: on - CC message: on - US emissions werring large on	nore	- Reduced power	eving to the reduction in engine culput	nore
MEVD17.2- BN2000 OszEC4	10436 Throttle value, adaptation: energyping number position not extended.	who to determine whether is and the memory are produced and and the object reformation of the state of the state of the PDF and the state of the state of the state of the state of the During the threfite where adaptation the	Therefore Value Adaption Ling-House Position United and Adaption (1)	Throth Adultor Adiabation	trottle valve trottle valve trottle valve trottle valve trottle take statut mechanical taxes taket to texter voltage (10 V). Potential problem source(k) - Full code entry in information only - Trottle-valve adaptation aborded in response to low aborded in response to low	The fault is bigged in the control module is fault remains interactivity. Terrator 15 y The fault is bigged in the	Other conditions: - Engine animatic biometain - Time condition: - 20 anit, after Terminal 15 - 20	- 30 sec. after Terminal 15 STC C on STA	UBRIN, DOL, DK. UBRI, DOP, VOLT. DBRI DOP, VOLT.	Y	Throtte walked in open or My-cload point auton	- On-ski wing himmas bahvain DME and - Deplace Brodle-salve actuator index - Replace Brodle-salve actuator index - Check battery voltage (~ 10 V), Terminal 15 of -> Terminal 15 cn -> Weit 1 min - Previola that the voltage concellon has been mit the fault hand on occur agen	US electonic engle power reduction: on -CC message: on -ECE existion: warring lamo: on -ECE electonic engle power reduction: on -CC message: on -US electonic engle power -US electonic engle power -US electonic engle power	0208	Possible apprent symptoms: - Reduced power	the possible to certifying the vehicle, but passing means in their of the tambnield certifying to the reduction is engine and put ending to the reduction is engine and put Brankdown notice:	<u>1978</u>
BN2000 BN28CC	1044 nd me	perdel pose orden. P3	22 (Seek 1)	Trets Asser	veltage The fault is recognized when the limits for the approved signal voltages (appind voltage senser 1 + 0.27 V, senser 2 + 4.73 V) are violated during the initial adaptation, or when the deviation of the same voltage of sensor 1 and senser 2 of S V exceeds X V. Potential problem source(s) - Fault during Intial	rearray intradulely. Territyol 15	Expire on temperature, more then 607 Vollage condition - Observations - Observations - Observations - Observations - Observations - Copies warman conditions - Expire warman to normal laters, alows 80 °C Three conditions - Copies warman -	90 on NO	N08	Y	is two orbited electrical system voltage	rof receaser? - Case ECU fault memory ? Spriton off? Spriton on for at least 1 meute - a. Once winty memory Difference in the comor of hords wave volgen met access 4 by - b. Isoget to disterine whither any objects any present in the radia manifold or within the any present in the radia manifold or within the	- CC massage: on - ECE entastors warring larg: on - ECE electronic engine power reductors on - CC massage: on - IC massage: on		-Related power	engine agend is timbed to roughly 1000 rpm.	1979
MEVD17.2- BN2000 0s28CD	10445 Thretile valve, adaptation: Marginal conditions not met, ballery voltage too low	The dispersion function reactions the Pendits while the durations where it autoches the taken mechanical function (LBA) during the Initial Relativities. Prof.	TheEs Van Adaption Condition Not Me.	Throfo Actuality Adaptation	Initialization attempt, lower mechanical teases shop range violation: - Deticotomistic teases shop range that is recognized when the tents specified for the signal voltage 4 c227 V, teamor 2 + 4.73 V jun violated during the supeal adaptation rotation (roughly 30 sec. at Terminal 15 without engis what/it or which and the supeament of the supeament of the supeament of the supeament of the supeament of the supeament of the supeament of the supeament of the supeament of the supeament of the supeament of the supeament of the supeament of the supeament of the supeament of the supeament of the supeament of the supeament of the supeame	The fault is logad in the control modular fault remove immediately. Terreted 15	variate, cher termen 15 variate, cher termen 15 vertes conditors vertes conditors vertes conditors vertes conditors vertes conditors	-30 esc. after Terminal 15 (C on NO		v	micromatical favoir latoja rango vicilation: Distocimientarione on favoir latoja - Tomigin matericitegicki) - Spendic contra ministenia - Defective finette valor	morase wave's transf range - Completely data the huttle value by hand and measures the voltages on the too sensors (21: 0.5 V +: bitmannet) - Replace throats when - Replace throats when 1. Clear BCU field memory? bysiten off? typicing on for at least 1 tension 2. If task tempore	- U-s emasoria warring lang: on - US electronic engine power reduction: on - CC message: on		Possible apparent symphone: - Reduced power	Dankalown rodez Akilly to cantinue driving le real-can ergen agend a lonted to roughly 1320 pm.	1976
MEVD17.2- BN2000 0x2800	Throttle valve, adaptation: Initial adaptation, 1045 bower limit position not laught in	The disposals function monitors the brottle white to discrime a shafter 1 and calls the lower through the shaft of the shaft of the shaft of the Hindle what subjects on other (after comply 20 ares, "terminal 15 without argues part). P10	Threads Value Adaption Lower Step Not EC Learned (Bank 1)	Tretle Actuality - Adaptition	Long and the second secon	This fault is logged in the control module's fault memory immobiliety. Terminal 15	while between 5 Your 15 V Temperature confision - Dopin warms to bornal - The confision - The confision - Dopin warms to bornal - Engine warms to normal - Engine warms to normal - Engine warms to normal	- 30 sec. after Terminal 15 C on NO	1016	- P. 	*ad during repeat initialization attempt; lower mechanical towel limit ringe violation: 1.a. Travel with optify, 1.b. Foreign objectivation 1.c. Spendic contact instational 1.d. Defective throptic volve	2.4. Crank uning harm IDM mit 2.5 moths have been of frontier in the second sec	ECE entitations warning lang: on ECE electronic engine power reduction: on - CC message: on - US entitations warning lang: on - US electronic engine power reduction: on - CC message: on	nore	Possible apparent symptoms. - Reduced power	Breakdown notice: Abitly to cottioue driving is realified because engine speed is initiate to roughly 1300 pm.	nore
MEVD17.2- BN2000 0+287**	Throlls valve, adeptator: Teach in again, low 1942 Intel costion or lands in	During the thostile value adaptation motions the diagraphic function monitors is a set and any set of the se	Theth War Angelons Step Relating Loar Material Star Hot 1	Titelija Adulator Annodove	exceeds 0.1 V or dropp below explained when his amplification factor is greated than 4.1 Sor lease than 3.20. Potential problem source(s) - Defect in wing harmess between throttle-wide actuator motor and DME - Throttle-wide samcor defective - AD competer inno at news	This fault is logged in the control module fault	Voltage condition Observational setucional system politage balavama DV and 100 Temperatures and 100 Temper	-30 sec. after Terminal 15 C on Aux	7078	- De	efect in wing harress between throtte-valve actuator motor and DME - Throtte-valve service diffective - AD converter lead in DME diverse	- Check widing harmons between CMUE and protein value - Replace throttle value - Residence DWF	ECE antiasions warring lamp: on ECE electronic engine power induction: on - CO message: on - US electronic engine power reduction: on - CC message: cm	поли	Possble apparent syngtoms: None	Braidson refer: Nore	1076
					The fault is recognized when the arroant of entering air is less than that required for the calculated fault arroad Potential problem source(s); - Extreme divicortaminator in air fitter - Laaks in boota-dri tubes between compressor and intake manifold	n	Voltage condition - Ordered elicitical system software between 3V and 30 V and 30 - None Three condition: - None - None - None - Prove specification: - Conservation: - Engine specification: - Engine specificat				- Estreme diricontamination in air fither askis in boost air fulses between compressor	Initial to not or an event composition or controllation in when Auflewei to loop, heppin threas issues that the fueld diagrams required con- trol to the second second second second and trade manifold - Owned and trade manifold - Owned and trade manifold - Owned and the initial-second second cleack for lawks in the pressured trade between the compression and the initial-second priority and table manifold. Replicae any leaking the composed on any leaking	ECE entasions warring larp; off ECE electronic engine poser reduction; off CC message: none US entasions warring Lus; entrasions warring US electronic; engine power		Possba apparent symptoms:	 Breakforen notion: - 11 la possible to continue driving file vehicale,	
MEVD17.2-	10902 - Land a spear support of lask between 10902 - Additional and tables when a shear and tables when a second tables when a constraint temperature sectors a second sectoral Short	The degradic lackin monton the codent	Engine Costert Temperature Senser 1 Occut		-romme carkicase ventilitory ording difficult the sensor votage lies below 0.11V. Potential problem source(s) - Coolarit hemperature sensor ving hamsas has abort cicitor to ground - Temperature sino cotable maxiement range - Coolarit temperature sensor	This fault is logged in the control models fault	Votes of the detection of the second	- Nore NO	0.6k37 0.4k38 0.4k38	Y - P0 - Cc - 1		 In you want are smooth, allocat the induction tract fails to relief pressure, proceed Check codet temperature sensor wiring harness 	dution: on - Comessage: on - ECE extractions warning lamp: on - ECE extractions engine power reduction: on - Comessage: on - US entitations warning lamp: off - US electraction: engine power reduction: off	none	Power reduction Power reduction Power reduction Possible apprent symptoms: Possible power reduction	example and the second	Nons

								the sensor voltage is above 4.95 V.			Voltage condition:					- ECE emissions warning lamp: on				
								Potential problem source(s) - The coclant temperature sensor's wiring harness is			- Onboard electrical system voltage between 9 V and 15 V					ECE electronic engine power reduction: on CC message: on				
								shorted to positive or has an open wire - Temperature is outside			Temperature condition: - None Time condition:		0x5A37	- The coolant temperature sensor's wiring harness is shorted to positive or has an open	_	- US emissions warning lamp: off				
MEVD17.2- BN2000	x2937 10551	Coolant temperature sensor, electrical: Short to B+ or open circuit	The diagnostic function monitors the coolant temperature sensor's wires.	P0118	Engine Coolant Temperature Sensor 1 Circuit High	Engine Coolant Temperature Sensor	1 Electrical	- Coolant temperature sensor defective	This fault is logged in the control module's fault memory immediately.	Terminal 15	- 21 sec. after engine start Other conditions: - Cold engine start - None	- 21 sec. after engine start NO	0:5435 0:5439 0:581E N	uite - Temperature is cutaide measurement range - Coolant temperature sensor defective	Check coolant temperature sensor wring harness Replace coolant temperature sensor	US electoric engine power reduction: off CC message: none	none	Possible apparent symptoms: Possible power reduction Fan at maximum rotation speed	Breakdown notice: None	None
								the coolant temperature is 18°C above the average of several temperatures at cold			Voltage condition: - Onboard electrical system					- ECE emissions warning lamp: off - ECE electronic engine				
								start. Potential problem source(s)			voltage between 9 V and 15 V Temperature condition:			- Engine block heater or auxiliary heater may be	- Determine whether an engine block heater or	CC message: none MY11 US:				
			The diagnostic function monitors the coolant					Engine block heater or auxiliary heater may be installed	This fault is logged in the		- None Time condition: - 21 suc. after engine start			installed - Defect in wiring hamesa between DME and sensor	auxiliary heater is installed - Check witing harness between DME and sensor	- US emissions warning lamp: on - US electronic engine power		Possible apparent symptoms:		
BN2000	x293A 10554	Coolant temperature sensor, cold start: Coolant temperature too high	temperature to detect excessively high values during cold starts.	P1005	Cold Start Engine Coolant Temperature Too Low	Engine Coolant Temperature	Cold Start	Defect in wring harness between DME and sensor The fault is recognized when	control module's fault memory immediately.	none	- None - None	- 21 sec. after engine start NO	Read test data block; ID 5811 ⁴ N	- Sensor detective - Defective DME	Replace sensor Replace DME	- CC message: on - ECE emissions warning	DODR	Rough engine, possibly followed by power reduction caused by thermal management	Breakdown notice: Note	Norm
								the coolant temperature is 18°C below the average of several temperatures at cold			Voltage condition: - Onboard electrical system voltage between 9 V and 15					ECE electronic engine power reduction: off				
								start. Potential problem source(s)			V Temperature condition: - None					- CC message: none MY11 US: - US emissions warning				
MEVD17.2-		Coolant temperature sensor, cold start: Coolant	The diagnostic function monitors the coolant temperature to detect excessively low values					Defect in wring harness between DME and sensor - Sensor defective	This fault is logged in the control module's fault		Time condition: - 21 sec. after engine start Other conditions:		Read test data block;	Defect in wring harman between DME and sensor Sensor defective	Check wiring harness between DME and sensor Replace sensor	Lamp: on - US electoric engine power reductors off		Possible apparent symptoms: Rough engine, possibly followed by power	Breakdown notice:	
DN2000	10000	NETOPERALIN COLLOW	CUTTO COD MATE	1104	Coo start engre Coolert rengetative ros Low	Engre Cooare rempirative	Cost Stat	temperature jumps of 30°C occur.	memory immediately.	1019	Cold engine start - None Voltage condition: - Onboard electrical system	- 21 BIC AND REQUESTION TO	10.3817 N	- DENCEME DAVE	- Pospiecie Levic	Lamp: on - ECE electronic engine	Date	Nebución deutec by hermal management	7079	NEDR
								Potential problem source(s) - Defect in wiring harness to			voltage between 9 V and 15 V Temperature condition					- CC message: on				
			The diagnostic function monitors the coolant					 Coolant temperature sensor Coolant temperature sensor installed incorrectly 	This fault is logged in the		- None Time condition: - None		0x5A37 0x5A38	Defect in wring humass to coolant temperature sensor Coolant temperature sensor installed	- Check coolant temperature sensor wiring	- US emissions warning lamp: off - US electronic engine power		Possible apparent symptoms:		
BN2000	10563 bi2943	change too fast	plausbilly.	P0116	Range/Performance	Engine Coolant Temperature Senacr	1 Plausibility	temperature jumps of 30°C	memory immediately.	Terminal 15	- Ergine CN - None Voltage condition:	- None NO	0:581E N	Coolant temperature sensor defective	- Replace coolant temperature sensor	- CC message: none lamp: on	none	Fan at maximum rotation speed	None	None
								occur. Potential problem source(x):			- Onboard electrical system voltage between 9 V and 15 V					ECE electronic engine power reduction: on - CC message: on				
			The dimension function markets the ended					Detect in wring namesa to coolant temperature sensor Coolant temperature sensor	This fact is based in the		- None Time condition:		0x5A37	Defect in wiring harness to coolant temperature sensor Control temperature sensor		- US emissions warning lamp: off				
MEVD17.2- BN2000	1x2943 10563	Coolant temperature sensor, plausibility: Signal change too faat	temperature sensor's voltage signal for plausibility.	P3156	Engine Coolant Temperature 1 Gradient Too High	Engine Coolant Temperature	General	Coolant temperature sensor defective	control module's fault memory immediately.	Terminal 15	Other conditions: Engine ON None	- Nona NO	0x5A39 0x581E N	Coolant temperature sensor defective	Replace coolarit temperature sensor	- CC message: none	none	Possible power reduction Fan at maximum rotation speed	Breakdown notice: None	None
								sensor transmits implausible temperature data.			Volsege condition: Obcard electrical system volsege between 9 V and 15 Vol					ECE electronic engine ECE electronic engine				
								Potential problem source(s) - Defect in wiring harness holowere PMII and excluded			v Temperature condition: - None Theo exactline:					- CC message: none MY11 US:				
MEVD17.2		Coolant temperature sensor, plausibility: Engine temparature compared with model imdeusible	The discovery function monitors the content					temperature sensor - Coolant temperature sensor defective	This fault is logged in the		- 1 min. after engine start Other conditions:		0x5A37 0x5A35 0x5A39	Defect in wiring hamess between DME and coolant temperature sensor Coolant temperature sensor defaulties	Check wining harness between DME and coolant temperature sensor Beniane contact temperature sensor	- US electronic engine power resturtion; off		Possible apparent symptoms: Drasible maser reduction	Braikhan mine-	
BN2000	x2947 10557	too law.	витрезиали зипают.	P1128	Engine Coolent Temperature Too Low	Engine Coolant Temperature Sensor	1 Temperature	Defective DME the coolant temperature	memory immediately.	none	- No block heater active - None Voltage condition:	- 1 min. after engine start NO	DxS81E N	- Defective DME	- Replace DME	- CC message: on - ECE emissions warning	Date	Fan at maximum rotation speed	None	Ncos
								temperature data.			- Undeard electrical system voltage between 9 V and 15 V					ECE electronic engine power reduction: off				
								Defect in wiring harness between DME and coolant temperature sensor			- None Time condition: - 1 min, after engine start		0:5437	- Defect in wiring harmess between DME and	- Check wiring harmans between DME and	MY11 US: - US emissions warning lame: on				
MEVD17.2- BN2000	x2947 10567	Coolant temperature sensor, plausibility: Engine temperature compared with model implausibly too low.	The diagnostic function monitors the coolant temperature sensor.	P3168	Engine Coolant Temperature Signal Stuck Low	Engine Coolant Temperature	General	Coolant temperature sensor defective Defective DME	This fault is logged in the control module's fault memory immediately.	0216	Other conditions: - Engine on - No block heater active - None	- 1 min, after engine start NO	0x5A38 0x5A39 0x581E N	coolant temperature sensor - Coolant temperature sensor defective - Defective DME	coolant temperature sensor - Replace coolant temperature sensor - Replace DME	US electronic engine power reduction: off CC message: on	0208	Possible apparent symptoms: Possible power reduction Fan at maximum rotation append	Breakdown notice: None	None
								the coolant temperature sensor transmits implausible			Onboard electrical system voltage between 9 V and 15 V					ECE emissions warning lamp: off ECE electronic encine				
								Potential problem source(s) - Defect in wiring harness			Temperature condition: - None Time condition:					power reduction: off - CC message: none MY11 US:				
								between DME and coolant temperature sensor - Coolant temperature sensor	This fault is logged in the		- None Other conditiona: - Engine on		0x5A37 0x5A38	- Defect in wiring harness between DME and codent temperature sensor	- Check wiring harness between DME and coolant temperature sensor	US emissions warning lamp: on US electoric engine power		Possible accurrent symptoms:		
MEVD17.2- BN2000	x2948 10558	Coolant temperature sensor, plausibility: Engine temperature implausible	The diagnostic function monitors the coolant temperature sensor.	P0116	Engine Coolant Temperature Sensor 1 Circuit Bange/Performance	Engine Coolant Temperature Senaor	1 Plausbilly	defective - Defective DME	control module's fault memory immediately.	none	Engine temperature Engine temperature Detween 15"C and 60"C - None Orbested classical sectors	- Nom NO	0x5839 0x581E N	Coolant temperature sensor defective Defective DME	Replace coolart temperature sensor Replace DME	reduction: off - CC message: on	DODE	Possible power reduction Fan at maximum rotation speed	Breakdown notice: Note	None
								sensor transmits implausible temperature data.			voltage between 9 V and 15 V Temperature condition:					Lamp: off - ECE electronic engine power reduction: off				
								Potential problem source(s) - Defect in wiring harness between DME and coolant			- None Time condition: - None					- CC message: none MY11 US: US emissions warning				
MEVD17.2-		Coolant temperature sensor, plausibility: Engine	The diagnostic function monitors the coolant					temperature sensor - Coolant temperature sensor defective	This fault is logged in the control module's fault		Other conditions: - Engine on - Engine temperature		0x5A37 0x5A38 0x5A39	Defect in wiring hamess between DME and coolant temperature sensor Coolant temperature sensor defective	Check wiring harness between DME and coolant temperature sensor Replace coolant temperature sensor	lamp: on - US electronic engine power reduction: off		Possible apparent symptoms: Possible power reduction	Breakdown notice:	
BN2000	x2948 10568	temperature implausible	temperature sensor.	P3192	Engine Coolant Temperature Signal Stuck	Engine Coolant Temperature	General	Defective DME This is monitored in the instrument cluster.	memory immediately.	none	between 15°C and 60°C - None Voltage condition: - Orboard electrical system	- None NO	0x581E N	- Defective DME	- Replace DME	- CC message: on lamp: on - ECE electronic engine	none	Fan at maximum rotation speed	None	None
								Potential problem source(s) - Wiring harness to outside			voltage between 9 V and 15 V Temperature condition:					power reduction: on - CC message: on				
			The diagnostic function monitors the outside					temperature sensor defective - Outside temperature sensor	This fault is logged in the		- None Time condition: - None			- Wiring harness to cotaide temperature sensor defective		- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000	10550 10550	Outside temperature sensor, signal: Upper threshold value exceeded	temperature senaor for excessively high temperature figures.	P0073	Ambient Air Temperature Sensor Circuit 'X' High	Ambient Air Temperature Sensor	Electrical	defective - Instrument cluster faulty This is monitored in the	control module's fault memory immediately.	Terminal 15	Other conditions: - rone - None - None	- Nona NO	CAN signal (clum) from I- cluster Y	Outside temperature sensor defective Instrument cluster faulty	Continue fault diagnosis at the instrument cluster	reduction: off - CC message: none	none	Possible apparent symptoms: None	Breakdown notice: None	None
								instrument cluster. Potential problem source(s):			Onboard electrical system voltage between 5 V and 15 V					ECE electronic engine power reduction: on CC message: on				
								Wring harness to cutside temperature sensor defective			Temperature condition: - None Time condition:			- Wiring harness to cutside temperature sensor		- US emissions warning lamp: off				
MEVD17.2- BN2000	x2998 10651	Outside temperature sensor, signal: Lower threshold value undershot	The diagnostic function monitors the outside temperature sensor for excessively low temperature fources.	P0072	Ambient Air Temperature Sensor Circuit W. Low	Ambient Air Terroensture Sensor	Electrical	Outside temperature sensor defective Instrument cluster faulty	This fault is logged in the control module's fault memory immediately.	Terminal 15	- None Other conditions: - cone - None	- None NO	CAN signal (dum) from I-	defective - Outside temperature sensor defective - Instrument cluster faulty	- Continue fault diagnosis at the instrument cluster	US electronic engine power reduction: off CC message: none	DODE	Possible apparent symptoms: None	Breakdown notice: None	None
								This is monitored in the instrument cluster.			Voltage condition: - Onboard electrical system without induction of 16					lamp: on - ECE electronic engine				
								Potential problem source(s) - Wiring harmess to outside hermaneture sensor			V Temperature condition:					- CC message: on				
MEVD17.2		Cubida lamouratura sanare sional: CAN	The discovering function monitors the reduide		Ambiert &r Termerstore Server Fachs CAN			defective - Outside temperature sensor defective	The diagnostic fault code is logged when the fault remains meanent for longer		None Other condition: None Other condition:		CAN simal (dum) from L	Wiring harness to cutside temperature sensor defective Ordside temperature sensor defective	. Continue feed clamonic at the instrument	- US electronic engine power reduction: off		Prosible arrowed survivors-	Breidefrem police-	
BN2000 0	x299C 10652	message faulty	temperature sensor's CAN data.	P110F	Signal	Ambient Air Temperature Sensor	Signal	- Instrument cluster faulty	than 1 min.	Terminal 15	- none - None - Onboard electrical system voltace between 9 V and 16	- None NO	chuiter Y	- Instrument cluster faulty	cluster	- CC message: none	none	Nore	Clarification in progress	Norm
											V Temperature condition: - Engine warmed to normal					MY 10 ECE: - ECE emissions warming				
								The fault is recognized when the outside temperature remains more than 20°C			temp, above 80 °C Time condition: - None					lamp: off - ECE electronic engine power reduction: off				
								above the model value for longer than 14 sec.			Other conditions: - Engine on - Vehicle speed in excess of					- CC massage: none MY11 US: US emissions warning				- The following conditions can lead to an incorrect diagnosis:
MEVD17.2-		Outside temperature sensor, plausibility. Ambient temperature higher than model	The diagnostic function checks the plausibility		Ambient Air Temperature Sensor Circuit 'A'			Potential problem source(s) - Defective wiring harness - Outside temperature sensor	The diagnostic fault code is logged when the fault remains present for longer		45 kmh - Mass-airflow rate less than 200 kg/h - Engine warmed to normal			- Defect in wiring harmass	Check outside temperature Check outside temperature sensor Check wiring harness between the instrument	lamp: on - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	Battery change or defective battery Engine heated by secondary source, such as aucitary heater
BN2000	10658 10658	temperature	of the outside temperature.	P0071	Range/Performance	Ambient Air Temperature Sensor	Plausibility	defective	than 1 min.	none	Intake-air temperature is temperature, more than 80°C Onboard electrical system voltage between 9 V and 15	- None NO	none Y	Outside temperature sensor defective	duster and the outside temperature sensor	- CC message: on	ME ON in US versions only	None	None	- Sensor frozen
											V Temperature condition: - Engine warmed to normal					MY 10 ECE: - ECE emissions warning				
								The fault is recognized when the outside temperature remains more than 20°C			temp, above 80 °C Time condition: - None					lamp: off - ECE electronic engine power reduction: off				
								above the model value for longer than 14 sec.			Other conditions: - Engine on - Vehicle speed in excess of					- CC message: none MY11 US: - US emissions warning				- The following conditions can lead to an incomect diagnosis:
MEVD17.2-		Outside temperature sensor, plausibility: Ambient temperature higher than model	The diagnostic function checks the plausibility					Potential problem source(s) Defective wiring harness Outside temperature sensor	The diagnostic fault code is logged when the fault remains present for longer		45 kmh - Mass-airflow rate less than 200 kg/h - Engine warmed to normal			- Defect in wiring harmess	Check outside temperature Check outside temperature sensor Check wiring harness between the instrument	Lamp: on - US electoric engine power reductors off		Possible apparent symptoms:	Breakdown notice:	Battery change or detective battery Engine heated by secondary source, such as auxiliary heater
51200	10050	temperature	or the outside temperature.	PILEA	Artolett Ar Tempetatore Too righ	Artisent Ar Temperature	Casea	Difficative	Earl 1 min.	none	Indexe an emperature is interperature, more than do C Obcard electrical system voltage between 9 V and 15 V	- NONE NO	none r	Outside temperature service derective	closer and the outside temperature sensor	- CC message: on	ME ON IN US WINKING DRY	None	NONE	- Sanace rooxen
								The fault is recognized when			Temperature condition: - Engine warmed to normal terro, above 80 °C					MY10 ECE: - ECE emissions warning lamp: off				
								the outside temperature remains more than 20°C below the model value for			Time condition: - None Other conditions:					ECE electronic engine power reduction: off - CC message: none				
								longer than 14 sec. Potential problem source(s):			- Engine on - Vehicle speed in excess of 45 kmh				- Check oublide temperature	MY11 US: - US emissions warning lamp: on				The following conditions can lead to an incomect diagnosis: Battery change or defective battery
MEVD17.2- BN2000	x29A3 10659	Outside temperature sensor, plausibility: Ambient temperature less than model temperature	The diagnostic function checks the plausibility of the outside temperature.	P0071	Ambient Air Temperature Sensor Circuit 'A' Range/Performance	Ambient Air Temperature Sensor	Plausibility	Defective wiring harness Outside temperature sensor defective	This fault is logged in the control module's fault memory immediately.	none	Mass-airflow rate less than 200 kg/h Engine warmed to normal - Intake-air temperature is temperature, more than 80°C	- None NO	none Y	Defect in wiring harness Outside temperature sensor defective	Check outside temperature sensor Check wiring harness between the instrument cluster and the outside temperature sensor	US electronic engine power reduction: off CC message: on	ME ON in US versions only	Possible apparent symptoms: None	Breakdown notice: None	Engine heated by secondary source, such as auxiliary heater Sensor frozen
											Onboard electrical system voltage between 9 V and 15 V									
								The fault is recognized when			Temperature condition: - Engine warmed to normal temp, above 80 °C					MY10 ECE: - ECE emissions warning lamp: off				
								the outside temperature remains more than 20°C below the model value for			Time condition: - None Officer conditions:					ECE electronic engine power reduction: off - CC message: none				
								longer than 14 sec. Potential problem source(x)			- Engine on - Vehicle speed in excess of 45 kmh				- Check outside temperature	MY11 US: - US emissions warning lamp: on				The following conditions can lead to an incorrect diagnosis: Baitery change or defective battery
MEVD17.2- BN2000	529A3 10859	Outside temperature sensor, plausibility: Ambient temperature less than model temperature	The diagnostic function checks the plausibility of the outside temperature.	PICEB	Ambient Air Temperature Too Low	Arrbiert Air Temperature	General	Defective wiring harness Outside temperature sensor defective	This fault is logged in the control module's fault memory immediately.	none	Mass-airflow rate less than 200 kg/h Engine warmed to normal - Intake-air temperature is temperature, more than 80°C	- None NO	none Y	- Defect in wiring harness - Outside temperature sensor defective	Check outside temperature sensor Check wiring harness between the instrument duater and the outside temperature sensor	US electronic engine power reduction: off CC message: on	ME. ON in US versions only	Possible apparent symptoms: None	Breakdown notice: None	Engine heated by secondary source, such as aucliary heater Senace frozen
								the intake-air temperature exceeds an average figure from several temperatures			Voltage condition:					MY10 ECE: - ECE emissions warning lamp: off				
								ouning cold starts. Potential problem source(s)			voltage between 9 V and 15 V					- Lice electronic engine power reduction: off - CC message: none MY11100-				
			The descents function provides the judge of					between DME and intake-air benperature sensor	This fact is based in the		Interpretative condition: None Time condition: Time condition:			- Defective wiring harness between DME and	- Check wiring harmess between DME and intake-	- US emissions warning lamp: on		Provide and an end of the		
MEVD17.2- BN2000 0	x29CC 10700	Intake air temperature sensor, cold start. Intake- air temperature too high	temperature to detect excessively high values during cold atlants.	P10C2	Cold Start Intake Air Temperature Too High (Bank 1)	Intake Air Temperature	1 Cold Start	- maxw-air temperature sensor defective - Defective DME	control module's fault memory immediately.	none	None Cold engine start - None	- 21 sec. after engine start NO	Parad test data block; ID 551F N	Intexe-er temperature sensor - Intake-air temperature sensor defective - Defective DME	- entretature sensor - Replace intake-air temperature sensor - Replace DME	reduction: engine power reduction: off - CC message: on	none	Rough engine, possibly followed by power reduction caused by thermal management	Breakdown notice: None	None
								the intake-air temperature is below an average figure from several temperatures during			Voltage condition:					MY10 ECE: - ECE emissions warning lamp: off				
								- Defective winter frames			voltage between 9 V and 15 V Temperature condition					- CC message: none MY1110-				
			The descents function marine					between DME and intake-air temperature sensor	This fact is been		- None Time condition:			- Defective wiring harness between DME and	- Check wing harness between DME and intake-	- US emissions warning lamp: on				
MEVD17.2- BN2000 0	x29CD 10701	Intake air temperature sensor, cold start: Intake- air temperature too low	temperature to detect excessively low values during cold starts.	P105D	Cold Start Intake Air Temperature Too Low (Bank 1)	Intake Air Temperature	1 Cold Start	sensor defective - Defective DME	control module's fault memory immediately.	none	Other conditions: - Cold engine start - None	- 21 sec. after engine start NO	Read test data block; ID 5851 N	- Intake-air temperature sensor defective - Intake-air temperature sensor defective - Defective DME	Replace intake-air temperature sensor Replace DME	reduction: off - CC message: on	none	Possible apparent symptoms: Engine runs roughly	Breakdown notice: None	None
								temperature sensor exceeds 4.85 V.			Voltage condition: - Onboard electrical system voltage between 9 V and 14					- LCC emissions warning lamp: on - ECE electronic engine nover refundamente				
								Potential problem source(s) - Defective wiring harness between DME and intake			V Temperature condition: - None					- CC message: on				
MEVD17 2.		Intake air temperature sensor electrical forms	The diagnostic function monitors the upper voltage limit of the intake-sit termembers		Intake Air Temperature Senary 1 Circuit Hart-			temperature sensor - Intake-air temperature sensor defertive	This fault is logged in the control module's fault		Time condition: - None Other conditions:		Read test data blovi-	Defective wiring harness between DME and Intake-air temperature sensor Intake-air temperature sensor ruleori	Check wiring harness between DME and intake- air temperature sensor Replace intake air temperature sensor	lamp: off - US electronic engine power reduction: off		Possible accurrent symptome	Braskdown weiner	
BN2000 0	x25D0 10704	circuit to B+	sensor on the engine-side of the air filter.	P0113	(Bank 1)	Intake Air Temperature Senaor	1 Electrical	Defective DME the voltage of the intake-air terrogenet	memory immediately.	Terminal 15	- none - None	- None NO	ID 5851 N	- Defective DME	- Replace DME	- CC message: none - ECE emissions warning latter on	none	Engine runs roughly	None	None
								ban 0.17 V.			- Obbard electrical system voltage between 9 V and 15 V					ECE electronic engine power reduction: on CC maseaner: on				
								Defective wiring harness between DME and intake-air lamperature persons			Temperature condition: - None Time condition:			- Defective wints harness helease (MAP	- Check witing harmens between DMB ^{II} and interim	- US emissions warning lamp: off				
	1	1	The diagnostic function monitors the lower					- Intake-air temperature	This fault is logged in the	1	- None			intake-air temperature sensor	air temperature sensor	- US electronic engine power		1	1	

					the difference between the											
					raw voltage value and the low-pass-filmed voltage is greater than 0.6 V.		Voltage condition: - Onboard electrical system						ECE emissions warning lamp: on ECE electronic engine			
					Potential problem source(s): - Defective wiring harmess		voltage between 9 V and 15 V Temperature condition:						power reduction: on - CC message: on			
MELOIT 3		The diagnostic function monitors the voltage of the inteller as temporature sumsor on the engine-			between DNE and intake-air temperature sensor - Intake-air temperature - Intake-air temperature		- None Time condition: - None		Proved local data Manufa	- 1	Defective wiring harness between DME and intake-air temperature sensor	Check wiring harness between DME and intake- air temperature sensor	US emissions warning lamp: off - US ensistence engine power motortice off	Provide and and and and	Resident states	
BN2000 0x29	10706	not plausable methods or the an interview of the specified level. P0111	Range Performance (Bask 1) Holes Air Temperature Sensor	1 Plausbilly	- Defective DME memory immediately. the intake-air temperature on	Terminal 15	- none - None - N	ions NO	ID 5851 N	N	- Defective DME	- Replace DNE	- CC message: none none	Engine runs roughly	Nore	None
					fiber is more than 24°C above the intake-air temperature before the		Oncord electrical system voltage between 9 V and 15 V						ECE emissions warning lamp: on ECE electronic engine			
					throttle valve. Potential problem source(x):		Temperature condition: - None Time condition:						power reduction: on - CC message: on			
					Defective wiring harmess between DME and intake-air temperature sensor This fault is logged in the		- None Other conditions: - Engine on			- 1	Defective wiring harness between DME and intake-air temperature sensor	Check wiring harness between DME and intake- air temperature sensor	- US emissions warning lamp: off - US electronic engine power			
MEVD17.2- BN2000 0x29	38 10712	ake air feiripeintaise sensor, plausibilly: The diagnostic function monitors the inteleval Inteleval temperature loo high temperature to detect implausibly high figures. P0127	Intelle Air Temperature Too High Intelle Air Temperature	1 General	Inteke-air temperature control module's tault sensor defective memory immediately. the inteke-air temperature on	0016	- Vehicle speed in excess of 42 km/h - None - N	icos NO	Read test data block; ID 5851 N	N	Intake-air temperature sensor detective Oefective DME	Replace intake at temperature sensor Replace DME	- CC message: none Active in US only	Possible apparent symptoms: Engine runs roughly	Breakdown notice: None	Norm
					the engine-side of the air filter is more than 30°C below the intake-air temportune before the		Voltage condition: - Onboard electrical system voltage between 9 V and 15						ECE emissions warning lamp; on			
					Potential problem source(s):		v Temperature condition: - None Time condition:						power reduction on - CC message: on			
					Defective wiring harness between DME and intake-air temperature sensor This fault is logged in the		- None Other conditions: - Engine on			- 1	Defective wiring harmess between DME and intake-air temperature sensor	- Check wiring harness between DME and intake- air temperature sensor	- US emissions warning lamp: off - US electronic engine power			
MEVD17.2- BN2000 0x29	29 10713	ake ait temperature sensor, plausibility: The diagnostic function monitors the intelevant Intelevant temperature to detect implausibly low figures. P11CD	inteke Air Temperature Too Low Inteke Air Temperature	1 General	Intake-air temperature control module's fault sensor defective memory immediately. the charge-air temperature	none	Vehicle speed exceeds 40 Rone - N None - N	ione NO	Pead test data block; ID 5851 N	N	Intake-air temperature sensor defective Oefective DME	Replace intake-air temperature sensor Replace DNE	reduction: off - CC message: none Active in US only	Possible apparent symptoms: Engine runs roughly	Breakdown notice: None	None
					exceeds an average figure from several temperatures during cold starts.								MY10 ECE: - ECE emissions warring larger off			
					Potential problem source(x) - Defect in wiring hameas between DME and charge-air		Onboard electrical system voltage between 9 V and 15 V						ECE electronic engine power reduction: on - CC message: on			
					temperature sensor - Charge-air temperature sensor defective		Temperature condition: - None Time condition:			-1	Defect in wiring harness between DME and charge-air temperature sensor - Charge-air temperature sensor defective	- Check wiring herness between DME and	MY11 US: - US emissions warning lamp: on			
MEVD17.2- BN2000 0x29	C 10716	The diagnositic function monitors the charge-air ange-air temperature sensor, cold start: Charge air tempenature too high during cold starts. P10DD	Cold Start Charge Air Temperature Too High (Bank 1) Charge Air Temperature	Cold Start	Charge-air temperature sensor has been tempered with memory immeduately.	none	- 21 sec. after engine start Other conditions: - Cold engine start - None - 2	21 sec. after engine start NO	Read test data block; ID 581E N	N	Charge-air temperature sensor has been tempered with Defective DME	charge-air temperature sensor - Replace charge-air temperature sensor - Replace DME	US electronic engine power reduction: on - CC message: on none	Possible apparent symptoms: Reduced power	Breakdown notice: Standard EML Text	None
					the charge-air temperature is below an average figure from several temperatures during								MY10 ECE:			
					Potential problem source(x): - Defect in wiring harness		Voltage condition: - Onboard electrical system voltage between 9 V and 15						lamp: off - ECE electronic engine power reduction: on			
					between DME and charge-air temperature sensor - Charge-air temperature		V Temperature condition: - None				Defect in wiring harness between DME and charge-air temperature sensor		- CC message: on MY11 US: - US emissions warning			
MEVD17.2-	Cha	the diagnostic function monitors the charge-air arga-air temperature to the start: Charme of temperature to defect excessively low values Charme of temperature to defect excessively low values	City Bad Chara Al Taranahar Tar Lan	Cold Days	sensor defective - Charge-air temperature sensor has been tempered control module's fault memory induction		Time condition: - 21 sec. after engine start Other conditions: Cold engine start	There also excises alloci	Read test data block;	. 1	Charge-air temperature sensor defective Charge-air temperature sensor has been tampared with Defective DMM	Check wing harness between DME and charge-air temperature sensor Replace charge-air temperature sensor Replace CME	lamp: on - US electronic engine power reduction: on	Possible apparent symptoms:	Breakdown notice:	
					the voltage of the inteleval temperature sensor exceeds 4.85 V								. FCF anissions warring			
					Potential problem source(x): - Defect in wiring harness		Voltage condition: - Onboard electrical system voltage between 9 V and 15						lamp: on - ECE electronic engine power reduction: on			
					between DME and charge-air temperature sensor - Charge-air temperature		V Temperature condition: - None Time section:			-1	Defect in wring harness between DME and charge-air temperature sensor	Charle and an and a second	- CC message: on - US emissions warring			
MEVD17.2- BN2000 0+70	to 10720 Charge	The diagnostic function monitors the upper evirt temperature sensor, electrical : Stort circuit to B* sensor on the wapper add or the air filter. Promm	Charge Air Cooler Temperature Sensor Circuit High (Bank 1) Coler	Electrical	- Charge-air temperature sensor has been tampered uelh memory immediate/	Terminal 15	- None Citer conditions: - none - None - N	ione N ^o	Read test data block; ID 55D7 N	N	- Charge-air temperature sensor defective - Charge-air temperature sensor has been tampered with - Defective DME	 - revo. weinig variable between DME and charge-air temperature sension - Replace charge-air temperature sensor - Replace DME 	- US electronic engine power reduction: on - CC message: on none	Possible apparent symptoms: Reduced power	Breakdown notice: Standard EML Text	None
		POUD			the voltage of the intake-air temperature sensor is less than 0.17 V.	and the second s			N	1			- ECE emissions warning		and the West Party Party	
					Potential problem source(x): - Defect in wiring harness		Voltage condition: - Onboard electrical system voltage between 9 V and 15						lamp: on - ECE electronic engine power reduction: on			
					perveen DME and charge-air temperature sensor - Charge-air temperature sensor defertio-		V Temperature condition: - None Time condition:			-1	Defect in wring harness between DME and charge-air temperature sensor	- Charle union botton	- UC message: on - US emissions warning			
MEVD17.2- BN2000 0x29	Charge	p-oir temperature sensor, electrical : Short votage levit of the Induke-air temperature circuit to each sensor on the moline-air de of the ar filter. PD07C	Charge Air Cooler Temperature Sensor Circuit Charge Air Temperature Sensor Charge Air Cooler Charge Air Cooler	Electrical	Charge-air temperature Charge-air temperature This fault is logged in the control module's fault with memory immediately.	Terminal 15	- None Citier conditions: - none - none - none - None - None - None	ione NO	Read test data block; ID 5507 N	N	Charge-air temperature sensor cenective Charge-air temperature sensor has been tampered with Orlicitive DME	Check wong names between UWE and charge-air temperature sensor Replace charge-air temperature sensor - Replace DME	ump: on - US electoric engine power reduction: on - CC message: on none	Possible apparent symptoms: Reduced oover	Breakdown notice: Standard EM, Text	Norm
					the difference between the raw votage value and the low-pass-filtered votage >								- ECE emissions warning			
					0.6 V. Potential problem source(s)		Voltage condition: - Onboard electrical system voltage between 9 V and 15						lamp: on - ECE electronic engine power reduction: on			
					Defect in wiring harmess between DME and charge-air temperature sensor		V Temperature condition: - None			-1	Defect in wiring harness between DME and charge-air temperature sensor	Charle sides because belowers PANE and	- CC message: on - US emissions warning lower on			
MEVD17.2- BN2000 0x25	12 10722 Char	in the degrades. Enclosed in testing of the degrades are not to be a set of the degrades are and the set of the degrades are of the degrades are and the degrades are and the degrades are and the degrades are and the degrades are are and the degrades are	Charge Air Cooler Temperature Sensor Circuit Range/Performance (Bank 1) Cooler	Plausibility	charger an engenature sensor defective This fault is logged in the Charge-air temperature control module's fault sensor has been tampered memory immediately.	Terminal 15	- None Other conditions: - none - None - N	ione NO	Read test data block; ID 58D7 N	N	Charge-air temperature senator barbone Lampaned with Defective DME	- Chiede winnig- air feirnpenature sensor - Replace charge-air temperature sensor - Replace DME	US electoric egile power reductor: on - CC message: on none	Possible apparent symptoms: Reduced power	Breakdown notice: Standard EML Text	None
					The fault is recognized when the boost-air temperature is more than 24°C above the		Onboard electrical system voltage between 9 V and 15 V									
					Intake-air temperature. Potential problem source(x):		Temperature condition: - None Time condition:						MY10 ECE: - ECE emissions warning lamp: off			
					- Datect in wring namess between DME and charge-air temperature sensor - Characteristics		- None Other conditions: Drive vehicle at a speed show 40 mmh for at least 2				Defect in wiring harness habease DMF and		ELE dectoric englise power reduction: on CC message: on MY1116-			
					sensor defective - Charge-air temperature sensor has been tampered This fault is logged in the		minutes to reduce the charge- air temperature, then allow the engine to idle for at least			:	charge-air temperature sensor - Charge-air temperature sensor defective - Charge-air temperature sensor has been	- Check wiring harmass between DME and charge-air temperature sensor	- US emissions warning lamp: on - US electronic engine power			
MEVD17.2- BN2000 0x29	54 10724 Chan	lege-air temperature sensor, plausbilly: The diagnostic function monitors the charge-air Charge air temperature too high temperature to detect implausibly high figures. P1080	Charge Air Cooler Temperature Too High (Bank 1) Charge Air Temperature 1)	General	with control module's fault - Defective DME memory immediately.	none	2 minutes to allow the charge- air temperature to rise again None N Voltage condition:	ione NO	Read test data block; ID 581E N	N	tampered with - Defective DME	Replace charge-air temperature sensor Replace DME	reduction: on - CC message: on none	Possible apparent symptoms: Reduced power	Breakdown notice: Standard EML Text	None
					The fault is recognized when the voltage of the charge-air temperature sensor does not		- Underd electrical system voltage between 9 V and 15 V Temperature condition:									
					change by at least 0.005 V. Potential problem source(s):		- Engine warried to normal temp, above 80 °C Time condition:						- ECE emissions warning lamp: on			
					- Defect in wiring harness between DME and charge-air temperature sensor		- 27 sec. after reaching engine temperature of 80 °C Other conditions:						ECE electronic engine power reduction: on CC message: on			
					Charge-air temperature sensor defective Charge-air temperature sensor has been tempered. This fault is loosed in the		cheve vertices as a speed above 40 km h for at least 2 minutes to reduce the charge- air temperature. Then allow				Charge-air temperature sensor - Charge-air temperature sensor defective - Charge-air temperature sensor has been	Check wiring harness between DME and charge-air temperature sensor	US emissions warning lamp: on US electoric engine power			
MEVD17.2- BN2000 0x25	10725 Char	age-air temperature sensor, plauability: The diagnostic function monitors the charge-air Signal frazen temperature sensor for an invariable signal. P1085	Charge Air Cooler Tempenture Sensor Signal Charge Air Tempenture Sensor Charge Air Cooler Charge Air Cooler	Electrical	with control module's fault - Defective DME memory immediately. The fault is recognized when	none	the engine to idle for at least - Engine warmed to normal - 2 2 minutes to allow the charge- temperature, more than 80°C engine - Onboard electrical system	27 sec. after reaching rgine temperature of 80 °C NO	Read test data block; ID 581E N	N	tampared with - Defective DME	Replace charge-air temperature sensor Replace DME	reduction: on - CC message: on Active in US only	Possible apparent symptoms: Reduced power	Breakdown notice: Standard EML Text	None
					the boost-air temperature rises by at least 32 °C within 10 sec.		voltage between 9 V and 15 V Temperature condition:						MY10 ECE:			
					Potential problem source(x): - Defect in wiring harness between DME and charge-air		- None Char condition: - None Other conditions:						ECE electronic engine power reduction: on			
					temperature sensor - Charge-air temperature sensor defective		Drive vehicle at a speed above 40 km/h for at least 2 minutes to reduce the charge-			-1	Defect in wiring harness between DME and charge-air temperature sensor		- CC message: on MY11 US: - US emissions warning			
MEVD17.2-	Charg	ge-air temperature sensor, gradient: Rise The diagnostic function monitors the charge-air	Charge Air Cooler Temperature Sensor Circuit Charge Air Temperature Sensor Charge Air		Charge-air temperature sensor has been tempered with control module's fault		air temperature, then allow the engine to idle for at least 2 minutes to allow the charge-		Read test data block;		Charge-air temperature sensor defective Charge-air temperature sensor has been Lampand with	Check wiring harness between DME and charge-air temperature sensor Replace charge-air temperature sensor	lamp: on - US electronic engine power reduction: on	Possible apparent symptoms:	Breakdown notice:	
Julio Juli	10/20	NO INF. INTERNATION OF BALANCERY TABLE 1988. POINT		Patalog	The fault is recognized when the boost-air temperature rises by at least 30 °C within	10.00	Onboard electrical system voltage between 9 V and 15 V	100 HU			- diacon dat	- repaid the	- commange on	Parada gone		PRATE
					10 sec. Potential problem source(s):		Temperature condition: - None Time condition:						MY 10 ECE: - ECE emissions warning lamp: off			
					- Defect in wiring harness between DME and charge-air temperature sensor		- None Other conditions: Drive whicle at a speed where 40 min for at least 7				Padad in using burners between DME and		ECE electronic engine power reduction: on CC message: on More and			
					sensor defective - Charge-air temperature sensor has been tampered This fault is logged in the		minutes to reduce the charge- air temperature, then allow the engine to idle for at least				charge-air temperature sensor - Charge-air temperature sensor defective - Charge-air temperature sensor has been	- Check wiring harness between DME and charge-air temperature sensor	- US emissions warning lamp: on - US electronic engine power			
MEVD17.2- BN2000 0x25	ts 10728 Charg	ge-air temperature sensor, gradient: Rose The dispositic function moniton the charge-air too high temperature for excessively repid rises. P1084	Charge Air Cooler Temperature Sensor Gradient Charge Air Temperature Sensor Charge Air Too High (Bank 1) Cooler	Plausibility	with control module's fault - Defective DME memory immediately.	none	2 minutes to allow the charge- air temperature to rise again None - N Voltage condition:	NO NO	Read test data block; ID 581E N	N	tampered with - Defective DME	Replace charge-air temperature sensor Replace DME	reduction: on none none lamp: on	Possible apparent symptoms: Reduced power	Breakdown notice: Standard EML Text	None
					The fault is recognized when a short circuit to ground is		Onboard electrical system voltage between 9 V and 15 V						ECE electronic engine power reduction: on CC message: on			
					Preservs Potential problem source(s) Defective within have		-None Time condition:				- Defective wirken have	- Check wiring harness between DME and injectors 1 and 2, replace injector 1, if fault remains selfch the new injector 1 contracts =	- US emissions warning lamp: on - US electoric engine preserver	Drosible arranged		Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that disproatic faith orders are shared by
MEVD17.2- BN2000 0x29	trjecti	dion system, cylinder 1, activation: High The diagnostic function monitors control- voltage adds: abort to ground activation of the traindor's high-voltage adds. P3140	Cylinder 1 High Pressure Injector High Side Cloud Low Injector High Side	Short to Ground	Defective injector with no interruption on a Defective DME single cylinder. The fault is recognized when	none	Cther conditions: Engine CN - None - N Voltage condition:	ions NO	none N	N	- Defective injector - Defective DME	Replace the DME control module only if the fault is still present continuously.	eduction: on none	Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	both injectors, although usually only one is defective.
					the outside temperature remains more than 20°C above the model value for		Onboard electrical system voltage between 9 V and 15 V						- ECE electronic engine power reduction: on - CC message: on			
					konger than 14 sec. Potential problem source(s) The diagnostic fault code is		Temperature condition: - None Time condition:					Read out outside temperature with tester and assess plausibility Visual inspection of outside temperature	- US emissions warning lamp: on			The following conditions can lead to an incomect diagnosis: Battery change or defective battery
MEVD17.2- BN2000 0x29	F 10751	ction system, cylinder 1, activation: Low The diagnostic function monitors control- votlage side, short to positive activation of the rejector's low-vollage side. P3102	Cylinder 1 High Pressure Injector Low Side Circuit High International Circuit High International In	Short to Batt	Outside temperature sensor defective Detaile Deta	none	- Insent Other conditions: - Engine CN - None - N	ione NO	none N	N	Defect in wiring harmess Outside temperature sensor defective	sensor - Check wiring harness between the instrument duater and the outside temperature sensor	- Our welconic engine power reduction: on - CC message: on none	Possible apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	- Engine reated by secondary source, such as axoflary heater - Sensor frozen
					The fault is recognized when		Volage condition: - Onboard electrical system voltage between 9 V and 15 V						ECE electronic engine power reduction: on - 00 message: on			
					present. Potential problem source(s): entered when the fault		Temperature condition: - None Time condition:					- Check wiring harness between DME and injectors 1 and 2, replace injector 1, if fault	- US emissions warring lamp: on			Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that
MEVD17.2- BN2000 0x24	20 10752 Injecti	sion system, cylinder 1, activation: High The diagnostic function moniton control- vottage aide; short to positive activation of the injector's high-voltage aide. P3150	Cylinder 1 High Pressure Injector High Side Citraul High	Short to Batt	Defective wiring hamess Defective injector Defective DME Single cylinder.	none	- None Other conditions: - Engine CN - None - N	ions NO	none N	N	Defective wiring harness Defective injector Defective DME	remains switch the new injector to cylinder 2 - Replace DME only if the fault remains present continuously	US electronic engine power reduction: on - CC massage: on none	Possible apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	diagnostic fault codes are always logged for both injectors, although usually only one is defective.
					The fault is recognized when		Voltage condition: - Onboard electrical system voltage between 9 V and 15 V					A	lamp: on - ECE electronic engine power reduction: on			
					Present. The diagnostic fault code is Potential problem source(s): entered when the far ⁴		Temperature condition: - None Time condition:					-revolvency carries between DME and injectors 1 and 2 - Replace injector 1, if the defect remains present respond by switching the new injector In-	- US emissions warning lamp: on			Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that
MEVD17.2- BN2000 0x24	Injection	clion system, cylinder I, activation: Low The diagnostic function monitors control- voltage abids short circuit to earth extinuition of the injector's low-voltage abids. F3101	Cylinder 1 High Pressure hijector Low Side Circuit Low International Int	Short to Ground	Defective wing harness Defective injector Defective IDME Defective IDME	none	- None Other conditions: - Engine CN - None - N	ione NO	none N	N	Defective wiring harness Defective injector Defective DME	cylinder 2. - Replace the DME control module only if the fault is still present continuously.	- US electronic engine power reduction: on - CC message: on none	Possible apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	diagnostic fault codes are always logged for both injectors, although usually only one is defective.
					The fault is recognized when a short circuit to ground is		Voltage condition: - Onboard electrical system voltage between 9 V and 15 V						lamp: on - ECE electronic engine power reduction: on			
					present. Potential problem source(s): - Defective plus or writes		v Temperature condition: - None Time condition:					- Inspect plaza/altino harvasa teteren Patel	- UC message: on - US emissions warning lame: on			Injectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors although contents and and a
MEVD17.2- BN2000 0x24	12 10754 Injecti	don system, cylinder 2, activation: High The diagnostic function monitors control- voltage skide, short to ground activation of the legador's high-voltage skide. P3152	Cylinder 2 High Pressure Injector High Side Circuit Low Injector High Side	Short to Ground	harness This fault is logged in the - Defective injector control modula's fault - Defective DME memory immediately.	none	- None Other conditions: - Engine CN - None - N	ione NO	none N	N	Defective plag or wiring harness Defective injector Defective DME	- Replace DME only if the fault remains continuously	US electronic engine power reduction: on - CC message: on none	Possible apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	defective. When interchanging positions use injectors operated by a DME driver circuit that only activates one injector!
					The fault is recognized when		Voltage condition: - Onboard electrical system voltage between 9 V and 15						lamp: on - ECE electronic engine power reduction: on			
					a short circuit to positive is present. The diagnostic fault code is		V Temperature condition: - None The execution						- CC message: on - US emissions warning			hjectors 1 and 2, and 3 and 4, are connected to
MEVD17.2- BN2000	aa 10744	ction system, cylinder 2, activation: Low The diagonalic function monitors control- voltane side short to positive pretraktive of the size-ford's transmission of the	Cylinder 2 High Pressure Injector Low Side Circuit High	Short in Rall	Protential problem source(s): Ordective whing harness Defective only of the source of t	-	I'me condition: - None Other conditions: - Encine ON	ione M ^a		N	Defective wiring harmess Defective injector Defective DMI	Image: twing harness between DME and injector 2, replace injector 2. Replace DME only if the fault remains professional	Lamp: on - US electorric engine power reduction: on - CC message: on	Possible apparent symptoms: Engine runs roughly and can stall in extreme	Breakdown notice: Final-m first	shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, although usually only one is related to
		Parate of a provided total Parate Par		-4555.04.0088	The fault is recognized when	1041W	Voltage condition: - Onboard electrical system voltage between 9 V and 15	NO	N	1	and bit it is the	-ALELEANEY	are: on ECE electronic engine power reduction: on	Land	sing/01.1841	unned).
					a short circuit to positive is present. The diagnostic fault code is		V Temperature condition: - None						- CC message: on - US emissions warning			Injectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for
MEVD17.2- BN2000 0+74	10756 Injecti	ston system, cylinder 2, activation: High The diagnostic function monitors control- voltage side, short to positive activation of the insidor's high-voltage side.	Cylinder 2 High Pressure Injector High Side Circuit High Iriector High Side	Short to Batt	Protential problem source(x): Ordective wing harness Ordective injector with no interruption on a Ordective IDME: sincle ovinder*	0016	I'me condition: - None Other conditions: - Engine CN - None - N	ione NO	none N	N	Defective wiring harmess Defective injector Defective DME	Imspect wiring harmons between DME and injector 2, replace injector 2. Replace DME only if the fault remains continuously	lamp: on - US electronic engine power reduction: on - CC message: on nove	Possible apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fau ^{te}	both injectors, although usually only one is defective. When interchanging positions use injectors operated by a DME driver circuit that only activates one injective

								The fault is recognized when		Vali - On valia	lage condition: hboard electrical system age between 9 V and 15						Lamp: on - ECE electronic engine power reduction: on			
								a short circuit to ground is present.	The diagnostic fault code is entered when the fault	V Terr - No	rperature condition: ane e condition:					. Insnert winn harrans hebasan DMF and	- CC message: on - US emissions warning lame: on			Injectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for both injections although usuals only one is
MEVD17.2- BN2000	x2A05 10757	Injection system, cylinder 2, activation: Low voltage side; short circuit to earth	The diagnostic function monitors control- activation of the injector's low-voltage side.	P3105	Cylinder 2 High Pressure Injector Low Side Circuit Low	Injector Low Side	Short to Ground	Defective wiring harness Defective injector Defective DME	occurs 3 times in sequence with no interruption on a single cylinder.	- No Other	ne er conditions: rgine CN - None	- None N	D none	N	Defective wiring harness Defective injector Defective DME	injector 2, replace injector 2. - Replace DME only if the fault remains continuously	US electronic engine power reduction: on - CC message: on	Possible apparent symptoms: Engine runs roughly and can stall in extreme none cases	e Breakdown notice: Engine fault	defective. When interchanging positions use injectors operated by a DME driver circuit that only activates one injector!
								The fault is recognized when		Volt - On volt	tege condition: sboard electrical system age between 9 V and 15						lamp: on - ECE electronic engine power reduction: on			
								a short circuit to ground is present.	The diagnostic fault code is	V Terr - No	rpenature condition: ane					Check wining harness between DME and injectors 3 and 4 Replace injector 4, if the defect remains	- CC message: on - US emissions warning			Injectors 1 and 2, and 3 and 4, are connected to
MEVD17.2-		Injection system, cylinder 3, activation: High	The diagnostic function monitors control-		Cylinder 3 High Pressure Injector High Side		Paral In Connect	Potential problem source(s) - Defective wiring harness - Defective injector Defective DMI	entered when the fault occurs 3 times in sequence with no interruption on a winde ordinaler	- No Other	e condition: zne er conditions: voine CN - None	None M		N	Defective wiring harmess Defective injector Defective DMI	present respond by switching the new injector to cylinder 3. - Replace DME only if the fault remains present	- US electronic engine power reduction: on	Possible apparent symptoms: Engine runs roughly and can stall in extreme	e Breakdown notice:	shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, although usually only one is default on
								The field is susceptioned where		Volt - Or	lage condition: sboard electrical system						lamp: on - ECE electronic engine			
								a short circuit to positive is present.		V Terr - No	rperature condition:						- CC message: on - US emissions warning			Injectors 1 and 2, and 3 and 4, are connected to
MEVD17.2-		Injection system, cylinder 3, activation: Low	The diagnostic function monitors control-		Cylinder 3 High Pressure Injector Low Side			Potential problem source(s) - Defective wiring harness - Defective injector	This fault is logged in the ECU fault memory if it remains present for longer	Tim - No Othe	e condition: ane er conditions:				- Defective wiring harness - Defective injector	- Read out and work through diagnostic fault	lamp: on - US electronic engine power reduction: on	Possible apparent symptoms: Engine runs roughly and can stall in extreme	e Breakdown notice:	shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, although usually only one is
BN2000	3x2A07 10759	voltage side; short to positive	activation of the injector's low-voltage side.	P3110	Circuit High	Injector Low Side	Short to Batt	- Defective DME	than 3 sec.	none - En Volt - On	rgine CN - None lage condition: rboard electrical system	- Norse N	D none	N	- Defective DME	codes in instrument cluster and in junction box	- CC message: on lamp: on - ECE electronic engine	Done Cases	Engine fault	defective.
								The fault is recognized when a short circuit to positive is present.		volti V Terr	age between 9 V and 15 rperature condition:					Check wiring harness between DME and injectors 3 and 4	power reduction: on - CC message: on			
MEVD17.2		hiartine solare cylindar3 actuation: Hinh	The diameter function meeting metal.		Culture 3 High Pressure Interior High Side			Potential problem source(s) - Defective wiring harness - Defective interfer	The diagnostic fault code is entered when the fault occurs 3 times in sequence with no intervention on a	- No Tim - No	ne condition: ane condition:				- Defective wiring harness	Replace injector 4, if the defect remains present respond by switching the new injector to cylinder 3. Replace DMF onto if the fault remains researd.	US emissions warring lamp: on US electronic engine power aeduction: on	Possible apparent symptoms: Evolve runs numble and nas shall in antram	e Residence retire	Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for both interfers although usually only one is
BN2000	2x2A05 10760	voltage side; ahort to positive	activation of the injector's high-voltage side.	P3156	Circuit High	Injector High Side	Short to Batt	- Defective DME	single cylinder.	none - En Volt	igine CN - None lage condition: though electricial system	- Norse N	D none	N	- Defective DME	continuoualy	- CC message: on lamp: on	none cases	Engine fault	defective.
								The fault is recognized when a short circuit to ground is present.		volta V Terr	age between 9 V and 15					- Check wiring harness between DME and injectors 3 and 4	power reduction: on - CC message: on			
								Potential problem source(s) - Defective wiring harness	The diagnostic fault code is entered when the fault occurs 3 times in sequence	- No Time - No	ane e condition: ane				- Defective wiring harness	 Replace injector 4, if the defect remains present respond by switching the new injector to cylinder 3. 	- US emissions warning lamp: on - US electonic engine power	Possible apparent symptoms:		Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for
MEVD17.2- BN2000	2x2A09 10751	Injection system, cylinder 3, activation: Low voltage side; short circuit to earth	The diagnostic function monitors control- activation of the injector's low-voltage side.	P3109	Cylinder 3 High Pressure Injector Low Side Circuit Low	Injector Low Side	Short to Ground	Defective injector Defective DME	with no interruption on a single cylinder.	none - En Volt	er conditions: rgine CN - None lage condition:	- None N	D none	N	Defective injector Defective DME	 Replace DWE only if the fault remains present continuously 	- CC message: on lamp: on	none cases	e Breakdown notice: Engine fault	both injectors, although usually only one is defective.
								The fault is recognized when a short circuit to ground is present.		- On volta V	iboard electrical system age between 9 V and 15					- Check wiring harmass between DME and	ECE electronic engine power reduction: on - CC message: on			Injectors 1 and 6, and 3 and 4, are connected to
								Potential problem source(s) - Defective plug or wiring harness	This fault is lowerd in the	- No Time	rperature condition: ane e condition: me				. Defective riter or setting because	- Replace injectors 3 and 4 - Replace injector 4, if the defect remains present respond by switching the new injector to conducter 3	- US emissions warning lamp: on	Dissible arrant someone-		shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, although usually only one is defective. When interviewing reviewings
MEVD17.2- BN2000	10762	Injection system, cylinder 4, activation: High voltage side; short to ground	The diagnostic function monitors control- activation of the injector's high-voltage side.	P3158	Cylinder 4 High Pressure Injector High Side Circuit Low	Injector High Side	Short to Ground	Defective injector Defective DME	control module's fault memory immediately.	none - En	er conditions: gine ON - None	- None N	D none	N	Defective injector Defective DME	Replace DME only if the fault remains present continuously	reduction: on - CC message: on	none Engine runs roughly and can stall in extreme cases	e Breakdown notice: Engine fault	injectors operated by a DME driver circuit that only activates one injector!
								The fault is recognized when a short circuit to mailtee is		- On volte	age condition: sboard electrical system age between 9 V and 15						ECE electronic engine power reduction: on CC message: on			bisches 1 and 6 and 3 and 4 are conserted in
								present. Potential problem source(s)	The diagnostic fault code is entered when the fault	Terr - No Tirre	rperature condition: ane e condition:					- Check wiring harness between DME and injectors 4 and 3, replace injector 4, if fault	- US emissions warning lamp: on			shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, although usually only one is
MEVD17.2- BN2000	10763	Injection system, cylinder 4, activation: Low voltage side: short to positive	The diagnostic function monitors control- activation of the injector's low-voltage side.	P3114	Cylinder 4 High Pressure Injector Low Side Circuit High	Injector Low Side	Short to Batt	Defective wiring harness Defective injector Defective DME	occurs 3 times in sequence with no interruption on a single cylinder.	- No Other Done - En	ane er conditiona: gjine CN - None	- None N	D none	N	Defective wiring harness Defective injector Defective DME	remains switch the new injector to cylinder 3 - Replace DME only if the fault remains continuously	US electronic engine power reduction: on <u> - CC message: on</u>	Possible apparent symptoms: Engine runs roughly and can stall in extreme none cases	e Breakdown notice: Engine fault	defective. When interchanging positions use injectors operated by a DME driver circuit that only activates one injector!
								The fault is recognized when		Volt - On volta	tage condition: nboard electrical system age between 9 V and 15						lamp: on - ECE electronic engine power reduction: on			
								a short circuit to positive is present.	The diagnostic fault code is	V Terr - No	rperature condition:					- Check wiring harness between DME and	- CC message: on			Injectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for
MEVD17.2- BN2000	v240C 10754	Injection system, cylinder 4, activation: High	The diagnostic function monitors control- entration of the interter's high-united side	01110	Cylinder 4 High Pressure Injector High Side	Interfor Hinh Side	Khund In Raff	Defective witing harness Defective injector Defective DMI	ensired when the suit occurs 3 times in sequence with no interruption on a sindle odintier	- No Other	e condition: ane er conditions: voine CN - Nme	- Nirosa Mi		N	Defective wining harness Defective injector Defective IDM ²	repectors + and 3, replace injector +, in task remains switch the new injector to cylinder 3 - Replace DME only if the fault remains contributeable	- US electronic engine power reduction: on	Possible apparent symptoms: Engine runs roughly and can stall in extreme range	e Breakdown notice:	defective. When interchanging positions use injectors operated by a DME driver circuit that only activation one interform.
								The field is successful along		Volt - On	lage condition: nboard electrical system						lamp: on - ECE electronic engine			
								a short circuit to ground is present.	The diagnostic fault code is	V Terr - No	rperature condition:					- Check wiring harness between DME and	- CC message: on - US emissions warming			Injectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that discretely fault codes are always loosed for
MEVD17.2-		Injection system, cylinder 4, activation: Low	The diagnostic function monitors control-		Cylinder 4 High Pressure Injector Low Side			Potential problem source(s) - Defective wiring harness - Defective injector	entered when the fault occurs 3 times in sequence with no interruption on a	Tim - No Oth	e condition: ane er conditions:				- Defective wiring harness - Defective injector	injectors 4 and 3, replace injector 4, if fault remains switch the new injector to cylinder 3 - Replace DME only if the fault remains	Lamp: on - US electronic engine power reduction: on	Possible apparent symptoms: Engine runs roughly and can stall in extreme	e Breakdown notice:	both injectors, although usually only one is defective. When interchanging positions use injectors operated by a DME driver circuit that
BN2000	10765	voltage side; short circuit to earth	activation of the injector's low-voltage side.	P3113	Circuit Low	Injector Low Side	Short to Ground	- Defective DME	single cylinder.	none - En Volt - On	rgine CN - None tage condition: hoard electrical system	- None N	D none	N	- Defective DME	continuously	- CC message: on lamp: on - ECE electronic engine	none Cases	Engine fault	only activates one injector!
								The fault is recognized when a short circuit to ground is present.		volta V Terr	age between 9 V and 15						power reduction: on - CC message: on			
								Potential problem source(s) - Defective wiring harness	The diagnostic fault code is entered immediately when the fault occurs 3 times in	- No Time - No	ane e condition: ane				- Defective wiring harness	- Check wiring harness between DME and	- US emissions warning lamp: on - US electonic engine power	Possible apparent symptoms:		Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for
MEVD17.2- BN2000	1x2ADE 10765	Injection system, cylinder 5, activator: High voltage side; short to ground	The diagnostic function monitors control- activation of the injector's high-voltage side.	P3161	Cylinder 5 High Pressure Injector High Side Circuit Low	Injector High Side	Short to Ground	Defective injector Defective DME	sequence with no interruption on a single cylinder.	none - En Volt	er conditions: rgine CN - None lage condition:	- None N	D none	N	Defective Injector Defective DME	injectors 3 and 4, replace injector 3, if tauk remains switch the new injector to cylinder 4	- CC message: on lamp: on	none cases	e Breakdown notice: Engine fault	both injectors, although usually only one is defective. connected to shared DME driver circuits. This
								The fault is recognized when a short circuit to positive is		- On volta V	iboard electrical system age between 9 V and 15						ECE electronic engine power reduction: on - CC message: on			means that diagnostic fault codes are always logged for both injectors, although usually only one is defective.
								Potential problem source(s)	The diagnostic fault code is entered when the fault occurs 3 firms in sensence	- No Time	persone condition: e condition: ye				- Defective wirky harrase	Check wining harmess between DME and injectors 3 and 4, replace injector 3, if fault remains sainth the new injector 10, collector 4	- US emissions warning lamp: on	Dissible arranged sometions-		NS5: hijectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always looved for bib biotectors, although use the use of
MEVD17.2- BN2000	w2ADF 10767	Injection system, cylinder 5, activation: Low voltage side; short to positive	The diagnostic function monitors control- activation of the injector's low-voltage side.	P3118	Cylinder 5 High Pressure Injector Low Side Circuit High	Injector Low Side	Short to Batt	Defective injector Defective DME	with no interruption on a single cylinder.	none - En	er conditions: rgine CN - None	- Nome N	D none	N	Defective injector Defective DME	Replace DME only if the fault remains continuously	reduction: on - CC message: on	none Cases	e Breakdown notice: Engine fault	one is defective. When interchanging positions use injectors operated by a DME driver circuit
								The fault is recognized when		- On volt	lege condition: sboard electrical system age between 9 V and 15						ECE electronic engine power reduction: on			
								present. Potential problem source(s)	The diagnostic fault code is entered immediately when	Terr - No Tirre	rperature condition: ane e condition:					Check wiring harmass between DME and injectors 3 and 4, replace injector 3, if fault	- US emissions warning lamp: on			Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that
MEVD17.2- BN2000	2x2A10 10768	Injection system, cylinder 5, activation: High voltage side: short to positive	The diagnostic function monitors control- activation of the injector's high-voltage side.	P3162	Cylinder 5 High Pressure Injector High Side Circuit High	Injector High Side	Short to Batt	Defective witing harness Defective injector Defective DME	the fault occurs 3 times in sequence with no interruption on a single cylinder.	- No Othe none - En	ane er conditions: rgine CN - None	- None N	D none	N	Defective wiring harness Defective injector Defective DME	remains switch the new injector to cylinder 4 - Replace DME only if the fault remains continuously	US electronic engine power reduction: on - CC message: on	Possible apparent symptoms: Engine runs roughly and can stall in extreme none cases	e Breakdown notice: Engine fault	diagnostic fault codes are always logged for both injectors, although usually only one is defective.
								The fault is recognized when		Volt - On volte	lage condition: ibcard electrical system age between 9 V and 15						lamp: on - ECE electronic engine power reduction: on			
								a short circuit to ground is present.	The diagnostic fault code is	V Terr - No	nperature condition: ane						- CC message: on - US emissions warning			Injectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for
MEVD17.2-	-14.11 10780	Injection system, cylinder 5, activation: Low	The diagnostic function monitors control-	00117	Cylinder 5 High Pressure Injector Low Side	International Assoc Widow	Paral In Council	Potential problem source(s) Defective wiring harness Defective injector Defective DMI	entered when the fault occurs 3 times in sequence with no interruption on a	- No Other	e condition: me er conditions: mean (M)	N 88			Defective wiring harness Defective injector Defective DMI	Inspect wiring harness between DME and injector 5, replace injector 5. Replace DME only if the fault remains continuous and the fault remains	- US electronic engine power reduction: on	Possible apparent symptoms: Engine runs roughly and can stall in extreme	e Breakdown notice:	both injectors, although usually only one is defective. When interchanging positions use injectors operated by a DWE driver circuit that
								The field is suspendent when		Volt - On	lage condition: nboard electrical system						lamp: on - ECE electronic engine			
								a short circuit to ground is present.	The diagnostic fault code is	V Terr - No	rperature condition:					- Check wiring harness between DME and	- CC message: on - US emissions warming			Injectors 1 and 2, and 3 and 4, are connected to
MEVD17.2-		Injection system, cylinder 6, activation: High	The diagnostic function monitors control-		Cylinder 6 High Pressure Injector High Side			Potential problem source(s) - Defective wiring harness - Defective injector	entered when the fault occurs 3 times in sequence with no interruption on a	Tim - No Othe	e condition: ane er conditions:				- Defective wiring harness - Defective injector	injectors 1 and 2, replace injector 2, if fault remains switch the new injector to cylinder 1 - Replace DME only if the fault remains	lamp: on - US electronic engine power reduction: on	Possible apparent symptoms: Engine runs roughly and can stall in extreme	e Breakdown notice:	shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, although usually only one is
BN2000	2k2A12 10770	voltage side; short to ground	activation of the injector's high-voltage side.	P3164	Circuit Low	Injector High Side	Short to Ground	- Defective DME	single cylinder.	none - En Volt	igine ON - None lage condition: riboard electrical system	- None N	D none	N	- Defective DME	continuousiy	- CC message: on lamp: on - ECE electronic engine	none Cases	Engine fault	defective.
								The fault is recognized when a short circuit to positive is present.		volt V Terr	age between 9 V and 15 rperature condition:						- CC message: on			
MEVD17.2-		Intection system, cylinder 6, activation: Low	The dispositic function monitors control-		Cvinder 5 High Pressure Injector Low Side			Potential problem source(s) - Defective wiring harness - Defective injector	entered when the fault occurs 3 times in sequence with no interruption on a	- No - No Other	e condition: 2ne e conditions:				- Defective wiring harness - Defective injector	- Critics winny fairheast betreen toxic and injectors 1 and 2, replace injector 2, if fault remains switch the new injector to cylinder 1. - Replace DME only if the fault remains	- US electronic engine power reduction: on	Possible apparent symptoms: Engine runs roochty and can stall in extrem	Breakdown notice:	shared DME driver circuits. This means that diagnostic fault codes are always logged for both intects, althouch usually only one is
BN2000	2x2A13 10771	voltage side; short to positive	activation of the injector's low-voltage side.	P3122	Circuit High	Injector Low Side	Short to Ball	- Defective DME	single cylinder.	none - En Volt	rgine CN - None lage condition:	- Norse N	D none	N	- Defective DME	continuoualy	- CC message: on lamp: on	none Cases	Engine fault	defective.
								The fault is recognized when a short circuit to positive is present.		volta V Terr	age between 9 V and 15						power reduction: on - CC message: on			
								Potential problem source(s) - Defective wiring harness	The diagnostic fault code is entered when the fault occurs 3 times in sequence	- No Time - No	ane e condition: ane				- Defective wiring harness	Check wiring harness between DME and injectors 1 and 2, replace injector 2, if fault remains switch the new injector to cylinder 1	- US emissions warning lamp: on - US electonic engine power	Possible apparent symptoms:		Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for
MEVD17.2- BN2000	2x2A14 10772	nyecton system, cylinder 6, activator: High voltage side; short to positive	I he diagnostic function monitors control- activation of the injector's high-voltage side.	P3165	Cylinder 6 High Pressure Injector High Side Circuit High	Injector High Side	Short to Batt	Defective injector Defective DME	with no interruption on a single cylinder.	none - En Volt	er constions: gine CN - None lage condition:	- None N	D none	N	Defective Injector Defective DME	Replace DME only if the fault remains continuously	reduction: on - CC message: on lamp: on	Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	both injectors, although usually only one is defective.
								The fault is recognized when a short circuit to ground is		- On volta V	nocero electrical system age between 9 V and 16 membra months.					- Check wiring harness between DME and	ECE electronic engine power reduction: on CC message: on			Injectors 1 and 6, and 3 and 4, are connected to shared PARI above care and a start of the start
								Potential problem source(x): - Defective within hermen	The diagnostic fault code is entered when the fault occurs 3 times in securery	Terr - No Time	ne condition:				- Defective wiring harness	«Jectors 1 and 6 - Replace injector 6, if the defect remains present respond by switching the new injector to chinder 1	- US emissions warning lamp: on - US electronic engine r/www	Prosible arranged survey		evenues units traver crouts. This means that diagnostic fault codes are sheary logged for both injectors, although usually only one is defective. When intercharter realizer
MEVD17.2- BN2000	2x2A15 10773	Injection system, cylinder 6, activation: Low voltage aide: short circuit to earth	The diagnostic function monitors control- activation of the injector's low-voltage side.	P3121	Cylinder 6 High Pressure Injector Low Side Circuit Low	Injector Low Side	Short to Ground	Defective injector Defective DME	with no interruption on a single cylinder.	none - En	er conditions: gine CN - None	- None N	D none	N	Defective injector Defective DME	- Replace DME only if the fault remains continuously	reduction: on - CC message: on	- season appentin aprophiliti Engine runs roughly and can stall in extreme none cases	e Breakdown notice: Engine fault	injectors operated by a DME driver circuit that only activates one injector!
								The fault is recognized when a short circuit between the high and low-voltage sides *		Volt - On voltu V	nboard electrical system age between 9 V and 16						ECE electronic engine power reduction: on CC message: on			
								present. Potential problem source(s):	The diagnostic fault code is entered when the fault	Terr - No Tirre	rperature condition: ane e condition:					- Check wiring harness between DME and injectors 1 and 2, replace injector 1, if fault	- US emissions warning lamp: on			Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that
MEVD17.2- BN2000	3x2A30 10800	Injection system, cylinder 1 high voltage side, activation: Interfum fault	The diagnostic function monitors control- activation of the injector's high-voltage side.	P3148	Cylinder 1 High Pressure Injector High Side Shorted to Coll	Injector High Side	Shoted Col	Defective wiring harness Defective injector Defective DME	occurs 3 times in sequence with no interruption on a single cylinder.	- No Othe - En	ane er conditions: gjine CN - None	- None N	D none	N	- Defective wiring harness - Defective injector - Defective DME	remains switch the new injector to cylinder 2 - Replace the DME control module only if the fault is still present continuously.	US electronic engine power reduction: on - CC message: on	Possible apparent symptoms: Engine runs roughly and can stall in extrems pone cases	e Breakdown notice: Engine fault	diagnostic fault codes are always logged for both injectors, although usually only one is defective.
	II					7		The fault is recognized when a short circuit between the		Volt - On volta	age condition: sboard electrical system age between 9 V and 15	T		I T			Lamp: on - ECE electronic engine power reduction: on			
								righ and low-voltage sides is present.	The diagnostic fault code is entered when the far	V Terr - No	rperature condition: 200 e					. Insungert salding between bade mant	- CC message: on - US emissions warning			Injectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for both inter-circuits.
MEVD17.2- BN2000	2x2A31 10801	Fuel injector, cylinder 2, high voltage side, activation: Interfuen fe-th	The diagnostic function monitors control- activation of the intector's high-unitaria size-	P3151	Cylinder 2 High Pressure Injector High Side Shorted to Col	Injector High Side	Shoted Coll	Defective wring hamess Defective injector Defective DMI	where when the tault occurs 3 times in sequence with no interruption on a single cylinder.	- No Other	er conditions: gine CN - None	- None	D none	N	Defective wiring hamess Defective injector Defective DME	-representation of the second	- US electronic engine power reduction: on - CC message: on	Possible apparent symptoms: Engine runs roughly and can stall in extreme runse	e Breakdown notice: Frontes facili	defective. When interchanging positions use injectors operated by a DME driver circuit that only activates over injective!
			the second se					The fault is recognized when a short circuit balance for		Volt - On	tage condition: thoord electrical system are between 9 V and ¹⁶						Lamp: on - ECE electronic engine power renderion: cm			
								high and low-voltage sides is present.	The diagnostic fault code is	V Terr - No	rperature condition:					Check wining harmess between DME and injectors 3 and 4 Replace injector 4. If the defect remains	- CC message: on - US emissions warming			Injectors 1 and 2, and 3 and 4, are connected to
MEVD17.2-		Fuel injector, cylinder 3, high voltage side,	The diagnostic function monitors control-		Cylinder 3 High Pressure Injector High Side			Potential problem source(x): - Defective wiring harness - Defective injector	entered when the fault occurs 3 times in sequence with no interruption on a	Tim - No Othe	e condition: zne er conditiona:				- Defective wiring harness - Defective injector	present respond by switching the new injector to cylinder 3 Replace DME only if the fault remains present	- US electronic engine power reduction: on	Possible apparent symptoms: Engine runs roughly and can stall in extreme	Breakdown notice:	shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, although usually only one is
BN2000	2x2A32 10802	adivation: Intertum fault	activation of the injector's high-voltage side.	P3154	Shorted to Col	Injector High Side	Shorted Coll	- Defective DME	single cylinder.	none - En Volt	rgine CN - None lege condition: rboard electrical system	- None N	D none	N	- Defective DME	continuously	- CC massage: on lamp: on - ECE electronic engine	none clases	Engine fault	defective.
								a short circuit between the high and low-voltage sides is present.		volta V Terr	age between 9 V and 15 rperature condition:						power reduction: on - CC message: on			Injectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that
								Potential problem source(x) - Defective wiring harness	The diagnostic fault code is entered when the fault occurs 3 times in sequence	- No Time - No	ne e condition: zne				- Defective wiring harness	Check wiring harness between DME and injectors 4 and 3, replace injector 4, if fault remains switch the new injector to cylinder 3	- US emissions warning lamp: on - US electronic engine power	Possible apparent symptoms:		diagnostic fault codes are always logged for both injectors, although usually only one is defective. When interchanging positions use
MEVD17.2- BN2000	2x2A33 10803	=yection system, cylinder 4, activation: Interturn fault	 re oxegnosec function monitors control- activation of the injector's high-voltage side. 	P3157	Symper 4 righ Pressure Injector High Side Shorted to Col	Injector High Side	Shorted Coll	- Defective DME	with no interruption on a single cylinder.	none - En Volt	n Garwittitte: Igine CN - Norse lage condition:	- None N	D none	N	Letective Injector Defective DME	- respace Let2 only if the fault remains continuously	- CC message: on	Engine runs roughly and can stall in extreme none cases	Breakdown rotice: Engine fault	injectors operated by a DME driver circuit that only activates one injector!
								ine fault is recognized when a short circuit between the high and low-voltage sides is		- On volta V	nocero electrical system age between 9 V and 16 membra months.						ECE electronic engine power reduction: on CC message: on			
								Potential problem source(x): - Defective wiring harnese	The diagnostic fault code is entered when the fault occurs 3 times in sequence	Terr - No Tirrs - No	ane e condition:				- Defective wiring hamess	Check wiring harness between DME and injectors 3 and 4, replace injector 3, if fault remains switch the new injector to cylinder 4	- US emissions warning lamp: on - US electronic engine power	Possible accorent surrolvevi-		Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always looser ⁴ for
MEVD17.2- BN2000	242434 10804	Injection system, cylinder 5, high-voltage side, activation: Intertum fault	The diagnostic function monitors control- activation of the injector's high-voltage side.	P3160	Cylinder 5 High Pressure Injector High Side Shorted to Coll	Injector High Side	Shoted Col	Defective injector Defective DME	with no interruption on a single cylinder.	none - En	er conditions: rgine CN - None lege condition:	- Norse N	D none	N	Defective injector Defective DME	Replace DME only if the fault remains continuously	reduction: on - CC message: on lamo: on	Engine runs roughly and can stall in extreme classes	e Breakdown notice: Engine fault	both injectors, although usually only one is defective.
								The fault is recognized when a short circuit between the high and low-voltage sides is		- On volta V	nboard electrical system age between 9 V and 15						ECE electronic engine power reduction: on CC message: on			
								present. Potential problem source(x):	The diagnostic fault code is entered when the fault	Terr - No Time	nperature condition: ane e condition:					Check wing himess between DME and injectors 1 and 2, replace injector 2, if fault	- US emissions warning lamp: on			Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that
MEVD17.2- BN2000	0x2A35 10805	Fuel injector, cylinder 6, high voltage side, activation: Interturn fault	The diagnostic function monitors control- activation of the injector's high-voltage side.	P3163	Cylinder 5 High Pressure Injector High Side Shorted to Coll	Injector High Side	Shoted Coll	Jerective witing harness Defective injector Defective DME	with no interruption on a aingle cylinder.	- No Othe - En	er conditions: rgine CN - None	- None N	D none	N	Detective wining hameas Defective injector Defective DME	- Replace DME only if the fault remains continuously	- co excitoric engine power reduction: on - CC message: on	Possible apparent symptoms: Engine runs roughly and can stall in extrems none cases	e Breakdown notice: Engine fault	ceeproxic fault codes are always logged for both injectors, although usually only one is defective.

MEVG	D17.2- 2000 0x2440 10816	Fuel hjuctor, cylinder 1 lov voltage side, activation: Booster time window	The diagonalic function monitors control- activation of the injector's low-voltage aids.	P3163	Cylinder 1 High Pressure Injector Low Side Booster Time Error	Injector Low Side	Bootler Time Encr	The fault is recognized when the current rise too showly. Plantiar problem source(s) - Defactive impactor - Defactive impactor - Defactive impactor - Defactive impactor - Defactive impactor	a Terrsinal 15	Volkeje condition: - Oriexend electrical leytiem politique texterent V and 15 Ferepresent V and 15 Ferepre	- Nora NO	1016	N	- Defective wiring Namesas - Defective Vijedor - Defective DME	- Check white harness between DME and lejectors 1 and 2, replace lejector 1, if fast remains and/the more highest to cylinde 2 - Replace the DME contail module only if the fast to all present continuously.	Lamp: on - ECE electronic engine power reduction: on - US emission warning lamp: off - US ekotonic engine power reduction: of - CC message: on	none	Possible apparent symptoms: Engine runs roughly	Breakdown notice: Engine fault	Figures 1 and 2, and 3 and 4, are connected to ahared DME driver crouts. This means Table chargerolic full cross are always togged for both injectors, although instally only one is defacitive.
MEVE	D17.2- 2000 0x2041 10817	Puel injector, cylinder 2 low voltage side, activition. Rospie Line window	The diagnostic function monitors control-	P3167	Cylinder 2 High Pressure Injector Low Side Booter Time Error	insector Low Side	Booster Time Error	The fault is recognized when the current rises too slowly. Potential problem score(b) - Defective injector - Defective injector - Defective injector	a Terminal 15	Voltage condition: - Onboard electrical system voltage between 5 V and 15 V Temperature condition: - None Time condition: - None Other conditions: - rone - None	- Norme	rone	N	- Defective wiring hanness - Defective signator - Defective DME	Check wing harness between DME and injectors 1 and 6, replace injector 6, if suit remains south the move injector to ginder 4 - Replace DME only if the fault remains continuously	Lamp: on = ECE electonic engine power reduction: on - CC message: on - US electonic engine power reduction: off - US electonic engine power reduction: off	020#	Possible apparent symptoms: Engine nos rosobito	Breakdown notice: Englow fault	Nyectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that clargerostic full codes are always logged for both injectors, although usually only one is defective. When interchromic positions use injectors operated by a DME driver route that occur activations on precision!
MEVD	D17.2- 2000 0x2442 10818	Fuel Injector, cylinder 3 tov voltage tide, activation: Rooter: Ime wndow	The diagnostic function monitors control-	P3111	Cylinder 3 High Pressure Injector Low Side Booter Time Error	Intestor Low Side	Bootler Time Error	The fault is recognized when the current rises too alongly. If the fault occurs on the aarea cylinder 3 treas in an unintemptid sequence, plan - Outlective vigicator - Defective vigicator - Defective VIE. code is tooost.	a Terrinal 15	Voltage condition: - Orbeard electrical system voltage between 9 V and 15 V V Temperature costison: - None Time condition: - None Other costisons: - none - None	- Non NO	10278	N	- Defective wiring harmans - Defective lipicator - Defective DME	Check using harness between DME and hydron 3 and 4 Replaces and direct mention present respond by workforg the new injector to cylinder 3. Replace DME only if the fault menting present continuous	Lamp: on - ECE electronic engine power reduction: on - CC message: on - US entiasions warning lamp: off - US electronic engine power reduction: off - CC message: on	0008	Possible apparent symptoms:	Breakdown notice: Engine fault	hjecton 1 and 2, and 3 and 4, are connected to shared DME drive cross. This mean that diagnotic that cross are always logard for both injectors, all hospit costly only one is defactors.
MEV	D17.2-	Fuel hjecter, sylnder 4 too voltage side,	The degreeatic function monitors control-	2018	Cylinder 4 High Pressure Injector Low Side		Barrier Tan Barri	The fault is recognized when the current rises too story, amon cylinder 31 lines in a Potential problem source(s) - Particities wing homeas - Particities records - Particities - Particities records - Particities - Partic		Voltage condition: - Obcound electrical system collage between 1V and 15 V Emperature condition: - None - None Other conditions: Mana Mana Mana Mana Mana Mana Mana Mana Mana Mana Mana Mana Mana Mana				- Defective wiring humass - Defective hybridar - Defective hybridar	Chack wing harmon between DME and insectors 3 and 4 regulates injector 4, this defect remains present responsed by watching the new injector to cyclinder 3. Paplace DME cold of the factor transition greatent	Listence of the second se		Possible apparent symptoms:	Breakdown rotice:	hjectors 1 and 2, and 3 and 4, are connected to ahared DME driver circuits. This means that diagnosis but codes are always logged for both hydroxis, allhoogh smalls, while you can be
MEV	D17.2-	Puel injector, cylinder 5 low voltage side,	The diagnostic function monitors control-		Cylinder 5 High Pressure Injector Low Side			The fault is recognized when the current rises too skoly, same opticed 3 broken source(s) - Outcurs wing hemeas - Outcurs wing hemeas - Outcurs wing hemeas		Voltage condition: - Onboard electrical system voltage between by Uwen 16 V Ferrpurshare condition: - None Time condition: - None Other conditions:				- Defective wiring hameas - Defective tripictor	- Oteck wifing harmess between DME and lejectors 3 and 4, replace injector 3, if fault remains avoids the new injector to cylinder 4 - Replace MIC only if the fault meriation	Large on - ECE electoric engine power reduction: on - CC message: on - US emissions werring large: of - US electoric engine power reductoric of		Possbie apparent symptoms:	Breakdown notice:	Nyectors 1 and 2, and 3 and 4, are connected to shared DME drive circuits. This means that diagnostic fault codes are always logged for both hipschors, all'body anauly only one is
MEN	D17.2-	achvatore. Boselar time window	activation of the njactor's low-rollage adds.	91164	Booster Time Error	Injector Low Stote	Boolder Time Error	Detective DME: ocde is logged. The fault is recoprized when the current rises too skory, the current rises too skory, Patential potters scarcoju; unifermand sequence, patient - Detective wing hemeas the debcarce time of 0.5 - Detective rised to acc. the discards fault of	Territrid 15	- rene - None - None - None - None - Voltage condition: - Onbient electrical system Onbient electrical system None	-None NO	Pone	N	- Defective DME - Defective wiring hameas - Defective initidar	continuousy - Check wining harmans between DME and injectors 1 and 2, replace injector 2, if sust remains awatch the rew injector to cylinds 1 - Robico Offic Ord / the fault termains	- CC message: on Lamp: on - CC message: on - CC message: on - CC message: on - US emissions warning lamp: off - US electorate engine power reductors: off	none	Engine runs roughly	Engran fault	delective.
BNG	2000 0x2A45 10821	activation: Booster time window	activation of the injector's low-voltage aids.	P3123	Booster Time Error	injector Low Side	Booster Time Error	Defective DME code is logges. The fault is recognized when an open wire is presert. Potential problem source(i); Defective signations 2011 2011 2011 2011 2011 2011 2	Terminal 15	-none -None -None Voltage condition: -Onbound electrical system rollage between 9 V and 10 V Temperature condition: -None Time condition: -None	- None NO	none	N	Defective DME Orfective wiring harness	Continuously - Chack withing harmonic between DME and injection 1 and 2, replace injector 1, if such remains avoid the many injector to polled 2	- CC message: on lamp: on - ECE electronic engine power reduction: on - CC message: on - US entractors werning lamp: on - US electronic engine power	none	Engine runs roughly Possible apparent symptoms:	Engine fault	defactive. Injectors 1 and 2, and 3 and 4, are connected to shared DAE driver circuits. The means that diagrantic but codes are shared logged
BNG	07720 Gx244C 10828	rue nyezz, cymaer i oo voage see, advator. Line disconvector	The pagetase tancion monitor according	P3100	Cynder i ngr Presan ingcor Lov Los Circuit Osen	Injector Low Side	Open Circuit	- Levelove injector wern no manapolin on a ande controler ande controler ande controler The fault is recognized when an open wirk is presert. The diagnostic fault code is entired when he fault - Defective with hemess accors: 3 mes in sequence 3 mes in sequence 3 mes in sequence	Terminal 15	loter constance rose - None	- NO	rone	N	- Defective DME - Defective wring hamese	Impact the Line: Control module only in the fluct to still present continuously. Impact wing harness between DME and lighter 2, replace injector 2.	Insulation: on - CC message: on - ECE electronic engine power reduction: on - CC message: on - US emissions warring lamp: on - US electronic engine power	none	Engrie nota roughy and can sau in accente cases Possible apparent symptoms:	Ensing fault	com rejectors, arredge i usualy ony one a chéricios. Nyjectors 1 and 5, and 3 and 4, ave connected to ahared DAE driver circuits. This means that diagnostic Lifu colos are always logged for both rejectors, all'hoogh usually only one is difericits. When interchanging positions use
BNC	D17.2- 2000 9x244D 10829	Peel hyteche, ofinder 2 bin voltage side, activation: Line disconnection	The diagnostic function monitors control - activation of the signific's low-onlage side.	P3104	Cylinder 2 High Pheasure Injector Low Side Circuit Open	Ingestar Low State	Open Circuit	Oblickine legicer with no infamption on a roberchiv DME an open wire la presert. The fault is recorptized when an open wire la presert. The diagnostic fault code is ended appeals nource(b). Oblickine with hemass account 3 free in segaces	Terminal 15	Other conditions -rene -rene Voltage condition: Obtained electroal system voltage between 9 V and 15 V Y Temperature condition: -None Time condition: -None	-MO mot-	1078	N	Defective hijkdor Defective DME	Replace DML only the fault remains continuously Check wing harmess between DML and injectors 3 and 4 Replace in address remains present respond by watching the new injector to cyclings 3.	reduction: on - CC message: on - ECE electoric engine power reduction: on - CC message: on - US emissions warring lamp: on - US electoric engine power	none	Engine runs oughly and can stal in extreme cases	Brewindown notice: Engine fault	Hypcians operated by a DME driver cloud that only activates one injected hypcians 1 and 2, and 3 and 4, are connected to ahard DME driver crouts. This means that desprace full crocks are always toget for
BNC	D17.2- 2000 0x244E 10830	Peel hytecher, offinder 3 low voltage aide, activation: Line disconnection	The diagnostic function monitors control- activation of the injuctor's low-ontage side.	80109	Cylinder 3 High Pheseure Injector Low Side Circuit Open	Injector Low Side	Open Circuit	Oblickine injector oblickine injector oblickine injector oblickine ONE angle optration angle optration The fault is recoprized when an open win is present. The diagnostic fault code is ended when he fault oblicking with hemas accord() oblicking with hemas	Terminal 15	Other conditions -none -none -None Voltage condition: voltage condition: voltage detected system voltage detected voltage detected sy	- Kore - MO-	none	N	Defective bylictor Defective DME	Replace DME only if the fault remains present confinuously Creack series between DME and Plactors 4 and 3, replace injector 4, if fault remains and/the may insided to confided 2	reduction: on - CC message: on - ECE electronic engine power reduction: on - CC message: on - US emissions warring lamp: on - US electronic engine power	none	Engine runs roughly and can stall in extreme cases	Brewindown notice: Engine fault	both rejectors, although usually only one is defective. Vijectors 1 and 6, and 3 and 4, are consider for although the colors are although for both rejectors, although usually only one is defective. When interchandlow coultions use
MEV BNG	D17.2- 2000 0x244F 10031	Fuel hytector, oginder 4 bør volkage side, activation: Line disconnection	The diagnostic function monitors control- activation of the injector's low-voltage side.	P3112	Cylinder 4 High Pressure Injector Low Side Circuit Open	injector Low Side	Open Circuit	Oblicitive injector: with no interruption on a oblicitive OME angle optimal: The fault is recognized when an open wire is present. Potential poblem source(p). The diagnostic fault code is endined when the fault	Terminal 15	Other conditionsnone - Nonenone None	- Norme NO	0016	N	- Defective hydror	Replace DME only if the fault remains continuously - Inspect wing dammas between DME and	eductor: on - CC message: on - ECE electoric engine power reduction: on - CC message: on - CC message: on - US emissions wering lamp: on	none	Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	Injectors operated by a DME driver circuit that only activates one injector! hijectors 1 and 5, and 3 and 4, are connected to abard DME driver circuits. This means that diagnostic that codes are always togget for both hijector, althoogh sound by draw to
MEVO	D17.2- 2000 0x2A50 10832	Fuel injector, cylinder 5 low voltage side, activition: Line disconnection	The diagnostic function monitors control- activation of the njector's low-rottage ade.	P3118	Cylinder 5 High Pressure Injector Low Side Circuit Open	Injector Low Side	Open Circuit	Control of the second sec	Terminal 15	Count of the conditions: Contract selectical system Contract selectical system Contract selectical system V Ferromature condition: V Terromature condition: Three condition:	NO NO	none	N	Control we high control Control we high control Control we high control Control we have a set of the high control	Special in Head and Special Co. Register DMC only the start transition Continuously Check writing harmens between DME and injectors 1 and 0, replace injector 0, if shull	- CC message: on - CC message: on - ECE electronic engine power reduction: on - CC message: on - US emissions werning lamp; on	none	Engine non roughy and can said in extreme Cakes	Breakdown notice: Engine fault	Cubecare, version in excitating provide a case injectors operated by a 2005 driver circuit that only activates one injector! Nijectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, affloods auxaly only one is
MEV0 BNG	D17.2- 2000 0x2451 10833	Injection syntem, cylinder 6 low voltage side, activation: Line disconnection	The diagnostic function monitors control- activation of the interfor's low-voltage alde.	P3120	Cylinder 6 High Pressure Injector Low Side Circuit Open	insister Low Side	Open Circuit	Objective winky harmess count of the sequence objective liqued of the sequence objective lique and liqued and li	Terminal 15	None Other conditions V V Temperature coddsor Time conditions The conditions The conditions	-None NO	0018	N	- Defective wing harness - Defective injector - Defective DME	renains avitable for environmental second of the second se	- US existonic engine power reduction: on - CC message: on - ECE emissions working large: eff - ECE electronic engine power reduction: off - CC message: none - US emissions working	none	Possible apparent symptom: Engine runs roughly and can stal in extreme cases	Breakdown notice: Engine fault	oldicchve. When interchanging positions use injectors operated by a DDR' chrise cincut that only activates one injector
MEV0 BNG	D17.2- 2000 Gx2A2F 10847	Injection systems, voltage supply: Short circuit to B+	The dispositio function monitors the wire for the injector values supply from the unvertical- protection relay for ignition and injection for short circuits to positive.					herress latives indig and DAC - Relay defective - Defective DAC - DAC	none	vvertinad protection milling for graficion and ingradianti Other conditions: - Sthuttown phase - None - None - Vortage condition: - Onboard electrical system roltage between 0 V and 15	B sec, after deachvation of overload-protection relay for ignition and injection NO	u	N	- Defect at plug or in virting hanness between relay and DME - Relay defective - Defective DME	n - Check plug and wing hamsas between nelay and DME - Replace miley - Replace DME	Iamp: off - US electoric engine power reductoric off - CC message: none - ECE emissions warning Iamp: off - ECE electoric engine power reductor: off	0008	Possible apparent symptoms: None	Breakdown notice: None	Non
MEVE	D17.2- 2000 0x2A60 10546	trijection systems, voltage supply: Short circuit to earth	The diagnosis function monitors the wire for the injector valtage supply from the overlaad- protection religible (rapitors and registant for short circuits to ground.					Polential problem source(s); - Fuse defaults - Defect at plage in wing harrises between why and DME - Relaty defaults - R	Terminal 15	V Tempurahare condition: - None Time condition: - None Other conditions: - None - None - None - None	-No ensit-	none	N	- Fuse defective - Defect at plug or in winnig harmess between mean and DME - Relay and DME - Defective DME	Chack fuse Chack fuse Chack plug and wining harness between relay and DME Pagataen miny Replacen DME	- CC massage: none - US emissions warring lamp: off - US electronic engine power noduction: off - CC message: none - ECE emissions warring lamp: off	none	Possible apparent symptoms: Non-starter	Braakdown notice: None	nore
MEV0 BNG	D17.2- 2000 0x2461 10849	kjecion systems, voltage supply: Line disconnection	The diagnosis function monitors the wire for the injector voltage aupply from the overlass- protection neity for participant and pipetion for an open circuit.					has subthed on. Pedential poblem source(s) - Fuse delicities - Balance naily and DAME - Relative deficities -	Terminal 15	Other adjustment Variation	- None NG	u	N	- Fuse defective - Defect at plug or in writing hanness between relay and DME - Relay defective - Defective DME	Check fase Check fase Check plag and wing hamesa between relay and DME Plagstaen relay - Registaen CDME	- ECE electronic engine power reduction: off - CC message: none - US emissions warring large: off - US electronic engine power reduction: off - CC message: none	none	Possible apparent symptoms: Non-starter	Breakdown notice: None	Norm
MEVD	D17.2- 2000 0x2A70 10854	DME, internal fault, HDEV output stage module 1: SPI communication faulty	The diagnostic function monitors the driver circuit responsible for activating the injector.	PISAS	Control Module Multiple Output Stage SPI-Bus Communication Error	ECM	Multiple Cylost Steps	The fault is recording with the driver crutil that activates the injector treads down. Potential potenties record(s) control imodals that - DME defaults memory immediately.	1016	- Onberd electrical system chilage between 9 V and 16 V V Fargemature codition: - None - None - Pone - Pone	- Norm NO	none	N	- DME defective	- Only replace the DME if the fault memory is present continuously or if the fault inquercy is greater than 3	- ECE electronic engine power reduction: on - CC message: on - US emissions werring lamp: on - US electronic engine power reduction: on - CC message: on g	noce	Possible apparent symptoms: - Engine runs poorly with power loss - Breakdown in asthema cases	Braildonn ndice: - 7008	- 1008
MEVI	D17.2- 2000 0x2A71 10865	DME, internal fault, HDEV output stage module 2.5PT communication faulty	The diagnosis function monitors the driver circuit responsible for activating the signice.	P15A5	Control Module Multiple Output Stage 57%Bas Communication Error	ECM	Multiple Cutput Stage	The fault is recognized when communications with the driver circle that activates the rejector treak down. This fault is boged in the control models fault -DBE defective memory interestates.	Terminal 15	Valagi obseloti Valagi obseloti system voltajo betwen 5 V and 56 V Tempenture condition: - None Teme condition: - None Other conditions: - reme - None	- NO	none.	N	-DME defective	- Only replace the DME if the fault nemains present continuously or the fault hequarcy is greater than 2.5	Lamp: on = ECE electronic engine power reduction: on - CC message: on - US emissions warring lamp: on - US electronic engine power reductor: on - CC message: on	none	Possible apparent symptoms: - Engine rura poorly with power loss - Ensektion in adverse cases	Breakdown notice:	- 6018
MEV0 BNC	D17.2- 2000 0x2A72 10866	DME, Internal fault, HDEV output stage module 1: SPI contenuation implexable	The diagnostic function monitors the driver circuit responsible for activating the injector.	PISAS	Control Module Multiple Output Stage SPI-Bus Communication Error	ECM	Multiple Cutput Stage	The fault is recognized when communications with the driver circle that activates the nightch theak down. This fault is logged in the Potential problem scarce(s) - DBE directive memory immediately.	1016	Votage condition: - Onbeard electrical system votage between 9 V and 15 V Temperature condition: -None Time condition: -None Offer conditions: -Engine CN -None	- Nove NG	7076	N	- DME defective	- Cety replace the DME if the fault remains present continuously of the fault frequency is greater than 3	Lamp: on - ECE electronic engine power reduction: on - CC message: on - US emissions werning Lamp: on - US electronic engine power reduction: on - CC message: on	none	Possible apparent symptoms: - Engine runs poolly with power loss - Dreakdown in externar cases	Breakdown notice: - cone	- 10016
MEV	D17.2- 2000 0-56271 1084-	DME, Internal fault, HDEV output stage module 2:5P1 communication performance	The diagnostic function monitors the driver critical reasonable for actuation the binary .	риах	Control Module Multiple Output Stage SPI-Bus Communications from	FOL	Malinda Pedros Veran	The fault is sucception other communications with the downer chruit that activates the rejector treak down. Petersteil problem source(b) - DEE definding	Tarminut 14	Voltage condition: - Onboard electrical system outsge between b V and 15 V my methane condition: - None Three condition: - Plane - Pla	- Non No.	10278		. DMF sedertine	- Only replace the DML if the fault remains present continuously of the fault triguency is remains the ***	Lamp: on - ECE electoric engine power reduction: on - CC message: on - US entiasions warning Lamp: on - US electoric: engine power reductor: on - CC message:		Possible apparent symptoms: - Engrine runs pconty with power loss - Engelserum in adverse-	Braildown notice:	
MEVE	D17.2-	DME, internal fault, HDEV output stage mobule	The diagnostic function monitors the driver		Control Module Multiple Output Stage SP-Bias			The fault is recognized when communications with the driver circuit that activates the syscich reak down. The fault is logged in the Potential problem source(s): control module's fault.		Voltage condition: - Onbard slectical system voltage between 90 van 15 V Temperature condition: - None Time condition: - None Other conditions:				WINARY	- Only replace the DNE if the fault remains present continuously of if the fault requires is	LUS encoded www. Lang. on - ECE electoric engine power reduction: on - CC message: on - US encoded on Lang: on - US electoric engine power reduction: on		Possible apparent symptoms: - Engine rura poorly with power loss	Braildoan notice:	
MEV	D17.2-	 c or communication, signal fault DME, internal fault, HDEV output stage motule 	The degradic function monitors the driver	n PréAS	Control Module Multiple Output Stage SP-Bus	ecM	 Mumpar Culput Stage 	- Lexit: carriective memory investigately, The fault is recognized when communications with the driver circuit that activates the injector track down. The fault is logged in the potential problem source(b) control imposed in the	1 7058		CM Barrer	17078	<u>n</u>	- Lost: Sefective	grader Thin 3 - Only replace the DME if the fault remains present costinuously of the fault requires is	- CL message: on lamp: on - ECE electronic engine power reduction: on - CC message: on - US emissions warring lamp: on - US electronic engine power reduction: on	none	- presizonn in editerna cases - presizire apprent symptoms: - Engine run poorly with power loss	- rone Breakdown notice:	none
BNG	2000 0x2A75 10859	2: SPI communication, signal fault	circuit responsible for activating the injector.	P16A5	Communication Error	I ECM	Multiple Output Stape	OME defective memory immediately.	Terminal 15	I- none - None	- None NO	none	IN	- DME defective	creater than 3	- CC message: on	none	- Breakdown in extreme cases	- 1008	- fight

				 In any a support to basis and multi-secretizity may as a support of the support of the multi-secretizity may as a support of the support of the support of the support of the support of the support of the support of the support support of the suppor		Vulsaje condition: - Octoard delicitari system ve particulari v V and 150 ve particulari condition: - None me		Alfabora adaptitos (D. BAMA), 	Corport service factors analysis Constant and an annual factors Constant and anyon and anyon and anyon Constant anyon anyon anyon anyon Constant anyon anyon anyon Constant anyon anyon anyon Constant anyon Constanyon Constant anyon Constantanyon Constant anyon C	- If additional faults valued to the following more than the signature of points the sector of Proceedings of the sector of the sector of the more schedule models are sector of the sector of the more schedule models of the place. But proceedings of the system of the schedules space are the schedule schedules and the schedules space are the schedules and schedules space are schedules and the schedules are schedules and the schedules space are the schedules are schedules and the schedules and the schedules and the schedules are schedules and the schedules and the schedules and the schedules are schedules and the schedules and the schedules and the schedules are schedules and the schedules and the schedules and the schedules are schedules and the schedules and the schedules and the schedules are schedules are schedules are schedules are schedules and the schedules are schedules are sch	ECE entractive warring Integro on The prove straticity of the strategy of the Power straticity of the strategy of the ICE entractive strategy of the strategy of the strategy of the ICE entractive strategy of the strategy of			
MEVD17. BN2000	7.3- 00 0x2BC0 11220 Minture adaptation, lower engine speed range. The diagnostic function monitors the r adaptation.	ródure P0171 System Too Lean (Bank 1)	Fuel System Ail Load Ranges	system The - Intake system leaking In - Oil cap not sealing rem - Leak in exhaus system - The start or an exogenated reme	a diagnostic fault code is logged when the fault mains present for longer than 1 min. none	- None Other conditions: - Engine on - EVAP not active Nor	cne - None	- Load (D: 0x5813), - Engine mm (D: 0x4807), START_SYSTEMCHECK_GR - Engine Imperature UNDADAPT (D: 0x4507) Y	Oli cap not sealing Leak in exhaust system before oxygen Leak initial statut converter Poor-quality gasoline	Positive crankcase ventilation, oil cap, tank evaporative emissions system) - Check exhaust system for leaks - Reptace injectors	lamp: off - US electronic engine power reduction: off - CC message: none	Possible apparent symptoms: none - Engine runs poorly	Breakdown notice: - Loss of power - Delete n	mixture adaptations following repair
MEVD 17. BN2000	172 b.000 1100 Mater adjustion, have rugine upset argue. The disputic function motion the distance algorithm to the two motions of the disputic function motion the distance algorithm.	nakw P217 System Tay Lan (51 sta, Bins 1)	Part System (Of take	Re refers to los ar any Res 26% (keyendra ju ban ban ban ban ban ban ban ban ban ban	Approximate Section as a strategy at the first section many proceeds for large Section 2011 and 1011 are section	Vehag sondition - Orbital distribution parts Vehanistication of the orbit Vehanistication of the orbit Networks - Hear condition: - Hear con	n - Ion	- Micros sixplation (D) boots boots boots boots boots Staff _ STITUDECO_CR Equip Impendies BOOLOWY (D).400000 V	Copyen serves balance statistic converter Hate and machine Hate and machine Scheden and process served advices Hate and the process and the process Hate and the process and the process Hate and the process and the process and the pro- Hate and the process and the process and the pro- Hate and the process and the process and the process and the process Hate and the process a	I additional faults valued to the Manung comparentities and a paralet, if process that the log- th additional paralets and and the second second second second paralets are a transported as second cancel of paralets within a contrast second paralets and the second second paralets and the second paralets in the second second second second second these contrast second second second these contrast second s	ECE entracors wanning ECE entracors register Comanage on - Of entracors entrange - US entracors entrange - Sectors of - Editors of - E	noa Paskin agarost spujitos. - Oga na ganty	Baskine rolas - Los d para - John	miniture adaptations following regain
MEVD 17. BN2000	17.5 0. <u>62011 1011 Mater skyletin, here egin syser organ</u> . The departs function notion the department.	156m PR17 Seets for Rod date 11	Fost Spiller 44 Lost Ranges	Include search and types of the search and the sear	singuate fait cale a singuate fait fait singuate and fait fait singuate singuate singuate singuate singuate singuate singuate singuate singuate singuate singuate sin	Unlage southon - Solute of each of system wings failed as the system - Solute of the system - Solu	na kun	46-сая начите ID 64-46, - 46-ан или (D - 46-ан (D) -	- Ongos sanos balva sizijet converte - Sasa afta angos - Ostas afta angos - Ostas angos - Ostas angos - Sasa - Sasa - Sasa - Sasa - Sasa - Sasa - Denha guado na sanos delačina - Pater sandar guantom	If additional Math statutes is the following compared are spranet, process that is for The schalar dropes status, mass affers and the spranet status and process and antimic high-spranets for adjustic to prevent to the spranet status and process and the spranets and process and proc	- ECE setteme saving large on - ECE and/other only- power inductors on - CC manages on - US antibustors saving - ILS antibustors saving - ILS antibustors and - CC manages non- - CC manages non-	Paulo gront system 100 - 100	Building strate	misture untegtations following regar
MEVD17. BROOT MEVD07. BROOT	172- 172- 173- 172-	NANN F2173 System Tas Bob Of Ma (Best 1)	Patizolan Of Like	American Sector Sector Manual Sector Manual Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector	s diagnosis faur code a togged where he faur angemeent for tange tange tange tange tange tange	Voluge condition: - Octoor of electrical system reliape statements V and 10 - Norma - Norma - Norma - Norma - Conditions - Ergina on - Ergi	on - Hon	- Mickae skapister (D 64548), 64559, 64559, - Lang (D 64559), 51447 (54514), 51447 (54514), 6164507) V V	Corport stream factors actually consistent allocations Constrained and actually actu	- If additional faults valued to the following component are parameter, process these fault are to a second second second second second are torquestion as anow, contract pations are torquestion as anow, contract pations and any second second second second second and any second second second second second and any second second second second second 	- ECE entrators warring langs on - ECE extension on the - ECE extension average CC massage on - US entotative rapine power - extended of CC massage - scott	Pasife gave system 100 - 100	Bealdon roles - cost - Steller	miniture unleptoticore following reput
MEVD17. BN2000	0 0428C3 11203			the tim control on the oxygen sensor behind calabilitic convertien anametria		- Onboard electrical system voltage between 9 V and 15 V								
MEVD17. BN2000	12. Organisation statistic constanti factori constanti nel constanti nel constanti nel constanti nel constanti constanti nel constanti const constanti constanti cons	ngya na Mati Pott Calay if fui Tan System Tan Bah, (bank Pott 1)	Part System Perc Castyet	Lanyce characteristics a land of negative 4/tu Potentia potemis socorcity) - Defactia potemis socorcity - Lanki is exhaust system on exprise side of atalytic convertier - Organis senses balance catalytic converter defaction - Catalytic converter defaction - catalytic converter defaction - catalytic converter defaction - catalytic converter defaction - balance MME.	s diagonalis fault code la loggera ante fault code maine present for forger anne 10 min. rome	Temperature condition - Engine warmed to normal temp, above 80 °C Time conditions: - Rome Other conditions: - Engine on - Enhie at constant speed between 30 and 30 anh at performed to the speed performed to the speed - Shot at the thet world come - Entry - Not starts that world come	rgine warred to rormal gerature, more than 80°C - None	10 ma N	Detective wong termesa Lank te solvaat pystem on engines elle of existe termines and termines and termines ongen energie address ongen energie address ongen energie address ongen energie address ongen energie address ongen energie address onderson blitter	If fully related to motions control are present repair them find -contact system task for conjens sensors in -ware musial positions - Other configure on before conjens sensor bein's calagitic converts for lisals - Disclor wing harms between organs sensor - Register on and DUE - Register on calagitic construct - Register on calagitic - Register on CME	ECE entiasions warning Lang: on ECE electricic engine power reduction: on - CC massage: on - US entiasicos warning Lide electricic electricic reduction: of - CC massage: none case	In depends on the line centreline deter. The law centreline	Dealdose notice Contracted charging systemski, just baccases the corpore amounts and integrity of cases-blog- corpore, conversion of advantages are in the complex conversion of advantages of pages.	None
MEVD17. BN2000	12 12 12 12 12 12 12	ngan Ye a naari Pati Catajo hai Yao tajaan Tau Lan Pati (tan 1)	Post System Post Califyed	mygen server behind the calafyce converter accords a word of packets of the Polietic packets source() - Deficience write packets - Leiptrace accords - Copycen searce behind - Copycen searce behind - Copycen searce behind - Deficience State - Deficience State - Deficience State - Deficience State	r diagnostic fault code la toggod sub-tra fault ange ansette for togge than 10 mis. more	voltage testenen 9 V und 10 V Temperature condition: - Engle warmel be normal time condition: - Now Other condition: - Done at a constant speed between 50 and 50 kmh at motestast pro (1400 to 3240 pro): - No fault hat word and temp Voltage condition:	spine seamed to normal generative more than BVC - None	10 mm N	Defactors wring harves	If fulls related to mishare control are present repair these find - Conduct system tests from oxyges reasons in warray mucual posteriors warray mucual posteriors warray mucual posteriors warray mucual posteriors warray and both - Oracle warray for anyon organized and - Oracle warray and both - Oracle warray for anyon - Registers converter - Registers CME	- ECE antiacions wanting Impo on - ECE antiacions operating power reductions on - CC message: on - US existence aversing lang; of - US existence area power molucione of - CC message; nom - CC message; nom - CC message; nom - CC message; nom	Anal Agenda da Sa Mar Sandardar Mar Than ua Angalan Cang Januar Mar Than ua Angalan Cang Januar Mar Mar Mar Mar Mar Mar Mar Mar Mar Mar Hanna Cang Januar Hanna Cang Jang Januar Hanna Cang Janu	Se Default data Index Serger same an estad for data la ser- ando, consent a la seria de data la se- ando, consent a la seria da provida - ado, consent a la seria ya provid.	None
MEVD17: BN2000	72- 20 20100 1225 Pair preserve senser, electrical Short chost to 20 20100 1225 B+ 20 2010 1225 B+ 20 2000 1205 B+ 20 2000 1205 B+ 20 2000 1205 B+ 20 2000 1200 1205 B+ 20 2000 1200 1200 1200 1200 1200 1200 1	oper 1907 – Fail Bel Passes Senee X Could tigh 1907 –	Fuel Depublics / Voltes / Services Fuel Del Pessanes Ser	Presult sendor ecceses 4.6.V. Potential problem source(x) - Delect in wing hameas between DME and rail- pressure sensor - Delective rail-pressure c	tis fault is logged in the control module's fault	- Uncourd section ayes voltage between 9 V and 95 V Temperature condition: -None Time condition: -None			- Defect in wring harness between DME and rail-	- Check witting harness between DME and rail-	- LL: excitoric angine power reduction: on - CC message: on - US emissions warring learner on			
MEVD17. BN2000				the voltage of the rail- pressure sensor is less than 0.2 V.	NOT THE REPORT OF	Cither conditions: - none - Nor Voltage condition: - Onboard electrical system voltage between 9 V and 15	- 760 m	Paud feat data block; NO ID 5876 N	pressure sentor - Defective nal-pressure sensor - Defective DME	- Replace DME	US electronic engine power reduction: on <u>CC message: on</u> lamp: on ECE electronic engine power reduction: on	Possible apparent symptoms: none Beduced power	Breakdown notice: Standard EML Test	Nov
	T2 Pair presses server, elucitori Stori diruzi lo Tre depreste localin montes la presses server, elucitori 2 presses server, localin a	nat. 19. Fait Rel Presses Reser X Coult Los	Fel Replén i Velez Janen . Fel Rel Pesen Ser	the vicings of the nails pressure server is lises than 0.2V. Petietic problem search() -Delet in wirkly havess belowed DBE and rails -Defection and pressure to the server more search() -Deletic is wirkly havess Patientic problem search() -Deletic in wirkly havess	in fault in logged in the control module). Terminal 15	Other condition: - Mor 1008 - Mor 1008 - Solid decision (year) 1008 - More None - None - Ober condition: - None	on - None	Nati and Alls Mold. 0.517 N	Design of the second se	Register of cyronics some . Register DE . Orack wing horness between the of rul- messare some . Register of cyronese some . Register OE . Check wing horness between the processere	-US ekcino: ergine power reductor: on -ECE ekcino: ergine power reductor: ergine power reductor: on -US existence merring lamp: on -US ekcino: ergine power reductor: on -EC excessor lamp: on lamp: on Excellence ergine power reductor: on CC massage on	Poskie sporet rynthme Bolost zone none Poskie sporet Bolost gener	Baakber ville Stotder200. Tot Baakber ville Onder 200. Tot Daakber ville	Norm
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	120 20 2005 1120 Ref preservance, skolad Sort south The depends backmonits is preservance is server starter and 172 173 0.0200 1127 Full soph space grants of the preservance and starter and starter starter and space is backmonits for any space starter and space is space of the preservance and starter and space is space of the preservance and space is backmonits for any space and space is space of the preservance and space is backmonits for any space is any space is backmonits for any space is any space is any space of the preservance and space is backmonits for any space is any space is any space of the preservance and space is any space is any space is any space of the preservance and space is any space is any space of the preservance and space is any space is any space of the preservance and space is any space is any space of the preservance and any space of the preservance is any space of the preservance and any space is any space of the preservance and any space of the preservance is any space of the preservance and any space of the preservance is any space of the preservance is any and any space of the preservance is any any space of t	ned property Contract Name Index X Cont Lor - Property Property Cont Name Index X Cont Lor - Property Property Property Cont Name Index X Cont Lor - Name Index X Cont L	Pair Registrics (Volum) Stream Fuel Rel Present Ber Pair Registrics (Volum) Stream Fuel Rel Present Ber Pair Registrics (Volum) Stream Fuel Rel Present Ber Image: Registric (Volum) Stream Fuel Rel Present Ber	Be ding of set di- parate and set ding of set ding of set ding	A land a larged in the answer mendality. A larged in the answ	Other addition Apple by the addition of the addition o	00 - 00 - 00 - 00 - 00 - 00 - 00 - 00	National block. N 0 537 N 0 537 N 0 537 N 00 Not block block. 00 National block. 00 Nation	Deletin tering horeas the large motion and before Order to Self-tering horeas the large motion and before the self- Order to self-		- US activity and prove - US activity and prove - Consequences - Consequenc	Pasks sport system .03 Pasks sport system	Name Name Image:	309 Nrv Nrv 099

	The fault is recognized when				1	1	1			
	an enrichment of more than 30 % is required for longer than 30 seconds.									
	Potential problem source(s): - Oxygen sensor before catalytic converter defective									
	Mass-airflow sensor defective Defective injectors									
	sensor defective - Intake-air temperature sensor defective		Voltage condition: - Onboard electrical system voltage between 9 V and 15			defective - Mass-airflow sensor defective - Defective injectors		ECE emissions warning lamp: on ECE electronic engine		
	Carrshaft position sensor defective Defect in high-pressure fuel system		V Temperature condition: - None Time condition:			Intake-manifold peaksure sensor defective Intake-air temperature sensor defective Carrshaft position sensor defective Oriefsci in histo-creasure fuel system	If additional faults related to the following components are present, process these first: Pre-catalyst oxygen sensor, mass-airflow sensor, intake-manifold onessure sensor, intake-	- CC message: on		
The disposite function markets the landsa disease law minimum content. The minimum law base disease law minimum content. The minimum law base disease law minimum content. The minimum law base disease law minimum content. The minimum law base disease	Defect in low-pressure fuel system Leak in exhaust system	This fault is logged in the control module's fault memory if it remains present	- None Other conditions: - Engine on			Defect in low-pressure fuel system Leak in exhaust system before oxygen sensor behind catalytic converter	air temperature sensor, camshaft position sensior, high preasure fuel system, low-preasure fuel system Check exhaust system for leaks	lamp: off - US electronic engine power reduction: off	Possible apparent symptoms:	Breakdown notice:
B0000 Gx8Ek 1022 control upger limt exceeded laws and the lambds control enrobus it. P0171 System Toc Laws (Bark 1) Fuel System A Load Bargas	Defore covoen sensor behind The facilit is recognized when an enrichment of more than 30 % is required for longer	for longer than 30 sec. none	- EVAP not active - None	- None None	none Y	- Poor-quality gasoline	- Replace injectors	- CC message: none	none -none	- tone - tone
	Potential problem source(x) - Oxygen sensor before									
	catalytic converter defective - Mass-airflow sensor defective									
	Defective injectors Intake-manifold pressure sensor defective Intake of interesting		Voltage condition:			Oxygen sensor before catalytic converter defective		- ECE emissions warning		
	sensor defective - Carnshaft position sensor defective		voltage between 9 V and 15 V Temperature conditor:			Defective injectors Intake-manifold pressure sensor defective Intake-air temperature sensor defective	If additional faults related to the following components are present, process these first:	ECE electronic engine power reduction: on CC message: on		
The derost forder molentia table	Defect in high-pressure fuel system Defect in low-pressure fuel system	This fault is logged in the	- None Time condition: - None Other conditions			Camshult position sensor defective Defect in high-pressure fuel system Defect in low-pressure fuel system Leak in arbs of sostern before rowan sensor	Pre-catalyst coypen sensor, mass-airflow sensor, intake-manfold pressure sensor, intake- air temperature sensor, carnahaft position sensor, histocassure foil sostem (no-cassure	US emissions warning lamp: off US electronic envire nover		
NE10/12 Prof. Spp/ Chead Log Fiel Cathol, Upper D0000 D0016 1 1242 Prof. Spp/ Chead Log Fiel Cathol, Upper D0000 D0016 1 1242 Prof. Spp/ Chead Log Fiel Cathol, Upper D0000 Lottick 1 1242 Prof. Spp/ Chead Log Fiel Cathol, Upper Lottick Log Fiel Cathol, Upper Log Fiel Cathol,	Leak in exhaust system before oxygen sensor behind the recognized share The recognized share	memory if it remains present for longer than 30 sec. none	- Ergine on - EVAP not active - None	- None None	none Y	- Deale in declarate agreement of the conjugation of the second of	fuel system Check exhaust system for leaks - Replace injectors	reduction: off - CC message: none	Possible apparent symptoms: - none - none	Breakdown notice: - none - none
	correction of more than 30 % for longer than 30 seconds.									
	Potential problem source(x): Oxygen sensor before catalytic converter defective Mass-eirflow sensor									
	defective - Defective injectors - Intake-manifold pressure					- Oxygen sensor before catalytic converter				
	- Intaka-air temperature sensor defective - Camshaft position sensor		Voltage condition: - Onboard electrical system			- Mass-airflow sensor defective - Defective injectors - Intake-manifold pressure sensor defective	If additional faults related to the following components are present, process these first: Pre-catalyst coypen sensor, mass-airflow	- ECE emissions warning lamp: on		
	defective - Defect in high-pressure fuel system		voltage between 9 V and 15 V Temperature condition:			Intake-air temperature sensor defective Camshaft position sensor defective Defect in high-pressure fuel system	sension, intake-manifold pressure sensor, intake- air temperature sensor, carnshaft position sensor, high-pressure fuel system, low-pressure	ECE electronic engine power reduction: on CC message: on		
The dispractic landscan molecular the landscan cleare-scop whitem context. The mature is to	- Intake system - Intake system leaking - Oil cap not sealing	This fault is logged in the control module's fault	Time condition: - None Other conditions:			Lenki in exhaust system leaking Cil cap not sealing Leak in exhaust system before oxygen sensor	leaks (also checking the following components: Positive crankcase ventilation, oil cap, tank evaporative emissions system)	US emissions warning lamp: off US electronic engine power		
MCVDT 2- BXD20 Implifying regression regression (not and the lambda control dals in a lamer micross) P0172 System Too Rich (Bark 1) Fuel System Al Load Regres	Leak in exhaust system before oxygen sensor behind rive taux is recognized when the mixture requires a lean	memory if it remains present for longer than 30 sec. none	Ergine on EVAP not active None	- None None	none Y	- Poor-quality gasoline	Check exhaust system for leaks Replace injectors	reduction: off - CC message: none	Possible apparent symptoms: none - Engine runs poorly	Breakdown notice: - Loss of power - none
	correction of more than 30 % for longer than 30 seconds.									
	Oxygen sensor before catalytic converter defective Mass-airflow sensor									
	defective - Defective injectors - Intake-manifold pressure sensor defective					- Oxygen sensor before catalytic converter defective				
	- Intake-air temperature sensor defective - Camahaft position sensor		Vollage condition: - Onboard electrical system			Mass-attlow sensor defective Defective injectors Intake-manifold pressure sensor defective	- If additional faults related to the following components are present, process these first Pre-catelyst oxygen sensor, mass-airflow	- ECE emissions warring lamp: on		
	defective - Defect in high-pressure fuel system - Defect in low-researce foot		voltage between 9 V and 15 V Temperature condition: - None			Intake-air temperature sensor defective Canshalt position sensor defective Defect in high-pressure fuel system Defect in low-pressure fuel volteen	sensor, intake-manifold pressure sensor, intake- air temperature sensor, careahaft position sensor, high-pressure fuel system, low-pressure fuel system Check art-induction southern for	ECE electronic engine power reduction: on CC message: on		
The disposit fundor routes the lands close large mining and the mining late	system - Intake system leaking - Oil cap not sealing	This fault is logged in the control module's fault	Time condition: - None Other conditions: Engine on			Intake system leaking Oll cap not sealing Leak in eshaut system before oxygen sensor	leaks (also checking the following components: Positive crankcase ventilation, oil cap, tank evaporative emissions system)	- US emissions warning lamp: off - US electonic engine power		Residence estimation
IBC/0723 Pair tapping system, regress sense remainers ind off the lands cambrid data in lanear Paid Spp) Clear Logs Mic Christ Losser 280200 02628 1250 central lower line defaultion mitcle P2026 Line fråles Below Frait Spp) Clear Logs Mic Christ	Leak in exhaust system before oxygen sensor behind the high-pressure fuel the high-pressure fuel	for longer than 30 sec. none.	- Ergine on - EvgP rotactive - None - Onboard electrical system - Onboard electrical system	- None None	none Y	- Poor-quality gasoline	Check exhaust system for leaks - Replace injectors	-CC message: none lamp: off	Possible apparent symptoms: - Engine sure apparent symptoms:	Breakdown nolice: - Loss of power - none
	after the engine is switched off.		V Temperature condition: - None					power reduction: off - CC message: none		
The departed Leader models while control in the leaders	Potential problem source(x) - Defective rail-pressure sensor	This fault is logged in the	Time condition: - 3 sec. after engine off Other conditions: Photomeretere			- Defective nall-pressure sensor	Check rail-pressure sensor Replace rail-pressure sensor Check low-pressure sensor Check low-pressure sensor	US emissions warning lamp: off US electronic engine power moduline off	Possible apparent symptoms:	Bandalana astron
INCOME DECEMBER 1994 DECEMBER 2014 DECEMBER	the pressure level in the high-	memory immediately. none	- No high-pressure fault - No high-pressure fault - Norse Voltage condition: - Obtracer descrived system	- 3 sec. after engine off None	none N	High-pressure pump defective	Replace high-pressure pump	- CC message: none lamp: on	none following HDRmin fault	None Done
	exceeds the specified value.		voltage between 9 V and 15 V Temperature condition:					power reduction: on - CC message: on		Breakdown notice:
The disputsic function methods the high- pressure to a system is and a system is a second at the sec	Potential problem source(x) Defective rail-pressure sensor Defect in low-pressure	This fault is logged in the control module's fault	- None Time condition: - None Other conditions:		Rai-cressure sensor voltace	- Defective nail-pressure sensor - Defect in low-pressure system	Check rail-pressure sensor Replace rail-pressure sensor Check low-pressure sensor Check low-pressure sensor	- US emissions warning lamp: off - US electronic engine power reduction: off	The co d Possible accurat avrotoms: refu	 engine reverts to its imp-home program, antimued vehicle operation is possible but divability is restricted, because power is used the driver should refer in from passing
B0000 Dottling Loss hyperbolicity please P1002 Cold Start Full Pessary Too Hype (Seak 1) Full System Cold Start	system the pressure level in the high- pressure system is 3.5 bar	memory immediately. Terminal	115 - none - None Voltage condition: - Onboard electrical system	- None NO	signal Y	High-pressure pump defective	- Replace high-pressure pump	CC message: on lamp: on ECE electronic engine	for US only - Loss of power	maneuvers. None
	lower than the specified value.		voltage between 9 V and 15 V Temperature condition:					power reduction: on - CC message: on		Breakdown notice:
The dispects fundion monitor passara kwisa In the ship passara kwisa in the ship passara kwisa Michio 17 2. Integration and the shift many control passara kwisa integration and the shift many control passara	- Fuel tank empty - Defective rail-pressure sensor	This fault is logged in the ECU fault memory if it remains present for longer	Time condition: - None Other conditions:		Rail-pressure sensor voltage	Tank empty Defective nill-pressure sensor Defect in low-pressure system	Oteck temperature sensor Oteck tow-pressure sensor Oteck operation of hail pump	Lamp: off - US electronic engine power reduction: off	Possible apparent symptoms: redu	uniting which persition is possible but divability is restricted, because power is local the driver should refrain from passing
80000 Goditis 1046 too tow the cablyst privating phase. P502P Cidd Starf Suf Pressure Too Lave Bank 1) Fuel System Cidd Start	Defect in low-pressure the voltage of the rail- pressure sensor is between 4.1 V and 4.8 V	than 45 sec. Terminal	15 - None none	- Norw NO	agnal Y	- High-pressure pump defective	Replace high-pressure pump	- CC message: on - ECE entissions warning losse: on	US only Loss of power	maneuvera. Norse
	Potential problem source(x) - Defect in wiring harness		Onboard electrical system voltage between 9 V and 15 V					ECE electronic engine power reduction: on CC message: on		
	between DME and rali- pressure sensor - Defective rali-pressure sensor	This fault is borned in the	Temperature condition: - None Time condition: - None			Defect in wiring harness between DME and rail- pressure sensor Defective neithcrossure sensor	Check wiring harness between DME and rail- pressure sensor Benkers elignessure sensor	US emissions warning lamp: on US electronic envire		
NECIOT2 - Red preserve sensor voltage died: open Red preserve sensor voltage died: open Red preserve sensor voltage died: open Red Red Preserve Sensor XV Volges Tochtigh Faiel Regulation Volges I Sensor X Fred Red Preserve Sensor XV Volges Tochtigh Faiel Regulation Volges I Sensor X Fred Red Preserve Sensor XV Volges Tochtigh Faiel Regulation Volges I Sensor X Fred Red Preserve Sensor XV Volges Tochtigh Faiel Regulation Volges I Sensor X Fred Red Preserve Sensor XV Volges Tochtigh Faiel Regulation Volges I Sensor X Fred Red Preserve Sensor XV Volges Tochtigh Faiel Regulation Volges I Sensor X Fred Red Preserve Sensor XV Volges Tochtigh Faiel Regulation Volges I Sensor X Fred Red Preserve Sensor XV Volges Tochtigh Faiel Regulation Volges I Sensor XV Volges Tochtigh Faiel Regulation Volges I Sensor XV Fred Red Preserve Sensor XV Volges Tochtigh Faiel Regulation Volges I Sensor XV Volges Tochtigh Faiel Regulation Volges I Sensor XV Fred Red Preserve Sensor XV Volges Tochtigh Faiel Regulation Volges I Sensor XV Volges Tochtight Faiel Regulation Volges I Sensor XV Volges T	Defect in high-preasure solett the voltage of the rail-	control module's fault memory immediately. none	Other conditions: - Engine ON - None	- None NO	Pead test data block; ID 5376 N	Defect in high-pressure system Defective DME	Repair problem in high-pressure fuel system - Replace DME	reduction: on - CC message: on	Possible apparent symptoms: Active in US only Reduced power	Breakdown notice: Standard EML Text None
	Potential problem source/s/c		Voltage condition: - Onboard electrical system voltage between 9 V and 15					ECE emissions warning lamp: on ECE electronic engine power reduction: on		
	Defect in wiring harness between DME and rail- pressure sensor		V Temperature condition: - None			- Defect in wiring harness between DME and rail-	- Check wiring harness between DME and rail-	- CC message: on - US emissions warning		
NC0072-5 Ral preserva sensor, voltage dedu lover The diagnostic lucidon monitors he voltage of D00200 0, 00210 10210 Textil here the diagnostic lucidon monitors he voltage of D00200 0, 00210 10210 Textil here the diagnostic lucidon monitors here voltage of here diagnostic lucidon monitors here the diagnostic lucidon monitors here voltage of here diagnostic lucidon monitors here voltage diagnostic lucidon monitors here voltage of here diagnostic lucidon monitors here voltage diagnostic di Neter diagnostic di diagnostic diagnostic diagnostic diagn	Defective rail-pressure sensor Defect in high-pressure system	The diagnostic fault code is logged when the fault remains present for longer than 1 min. Terminal	Time condition: - None Other conditions: - DNE not in shutdown phase - None	- None NO	Read test data block; ID 5576 N	pressure sensor - Defective nall-pressure sensor - Defect in high-pressure system - Defective DME	pressure senacr - Replace rall-pressure sensor - Repair problem in high-pressure fuel system - Replace DVE	Lamp: on - US electronic engine power reduction: on - CC message: on	Possible apparent symptoms: Active in US only Reduced power	Breakdown notice: Standard EML Test None
	the relative nail pressure prior to engine start is >10 bar, and a mixture fault or fuel									
	righ-pressure circuit fault appears following the engine start.		Votage condition: - Onboard electrical system voltage between 9 V and 15 V					- LLE emassions warning lamp: on - ECE electronic engine power reduction: on		
	Potential problem source(s) - Defect in wiring harness between DME and rail-	The dispersity for the state is	Temperature condition: - Engine warmed to normal temp, above 80 °C Time condition:			- Defect in wiring harness between DME and rail-	- Check wiring harness between DME and rail-	- CC message: on - US emissions warning		
The deprest-trademonitors the laries for Section 2.2 The deprest restor, plausibly trademonitors the laries for Section 2.2 The deprest restored section 2.2	Defective rail-pressure sensor Defect in high-pressure	line degrostic taut code a logged when the fault remains present for longer than 1 min. none	Inter condition: - 10 sec: after engine start Other conditions: - Engine Warmed to normal - Engine ON temperature, more than 80'	C - 10 sec. after engine start NO	Read test data block; ID 5576 N	Defective nail-pressure sensor Defect in high-pressure system Defect in high-pressure system Defective DME	- Replace rail-pressure sensor - Replair problem in high-pressure fuel system - Replace DME	- US electronic engine power reduction: on - CC message: on	Possible apparent symptoms: Active in US only Reduced power	Breakdown notice: Standard EML Test None
	the relative nall pressure during engine operation is > 40 bar and a mixture fault or a fuel hinturescore fault							- ECE emissione warrier		
	Potential problem source(x)		Voltage condition: - Onboard electrical system voltage between 9 V and 15					lamp: on - ECE electronic angine power reduction: on		
	Defect in wiring harmess between DME and rail- pressure sensor Defective rail-oressure		V Temperature condition: - None Time condition:			- Defect in wiring harness between DME and rail- pressure sensor	Check wiring harness between DME and rail- pressure sensor	- CC message: on - US emissions warning lamp: on		
ME/OFT2 Log F Independent vision provide for up Proof proof provide for up Proof proof proof	sensor - Defect in high-pressure system	This fault is logged in the control module's fault memory immediately. Terminal	- None Other conditions: 1 15 - none - None	- Norse NO	Read test data block; ID 5876 N	Defective nill-pressure sensor Defect in high-pressure system Defective DME	Replace rail-pressure sensor Replair problem in high-pressure fuel system Replace DME	- US electronic engine power reduction: on - CC message: on	Possible apparent symptoms: Active in US only Reduced power	Breakdown notice: Standard EML, Text None
	the voltage of the low- pressure sensor is > 3.6 V.		Voltage condition: - Onboard electrical system voltage between 9 V and 16 V					Lamp: off - ECE electronic engine power reduction: off - CC mession: nove		
	- Wring harness between DME and low-pressure sensor		Temperature condition: - None Time condition:			- Wiring harness between DME and low-pressure	- Check wiring harmess between DME and low-	- US emissions warning lamp: off		
ND/01/2 / Full be-preserve senser, electrical: Sourd analt The dispersite funder northern Re-upper B02000 0x2016 11254 Is 8 Is 0x2016 0x11 The dispersite and the to-preserve senser. P2542 Las Preserve Fuel System Senser Crock High International Systems Senser Crock Hight Internationa	Defect in low-pressure sensor Defective DME	rnis tault is logged in the control module's fault memory immediately. Terminal	- None Other conditions: I 15 - none - None	- None NO	Read test data block; ID 58F4 N	sensor - Defect in low-pressure sensor - Defective DME	pressure senacr - Replace low-pressure sensor - Replace DME	us electronic engine power reduction: off - CC message: none	Possible apparent symptoms: None None	Breakdown notice: None None
	pressure sensor is < 0.3 V. Potential problem source/w/		Votage condition: - Onboard electrical system voltage between 9 V and 16 V					semp: off - ECE electronic engine power reduction: off - CC message: none		
	- Wring harness between DME and low-pressure sensor	This fault is payment in the	Temperature condition: - None Time condition: - None			- Wiring harness between DME and low-pressure	- Check wiring harmess between DME and low-	- US emissions warning lamp: off		
MEX017.2- Fail low-pressure senser, electroal. Shet chait. The deprese fundion membran the lower	- Uninect in ION-pressure service	control module's fault memory immediately. Terminal	Cther conditions: 115 - none - None - None	- Norm NO	Read test data block; ID 5874 N	- Defect in low-pressure sensor - Defective DME	pressure sensor - Replace low-pressure sensor - Replace DME		Possible apparent symptoms: none None	Breakdown notice: None None
DAGAD (3427) 1125 Diam visigumi of the by-presiduation. PC-1 Log-Presser on System Cellulow	- Defective DME the voltage of the rail		a contract of the second se	1	1	1	1	- ECE electronic engine		
19600 (1987) 1021 1021 1021 1020 1030 1021 1020 1020	- Defective DME the votage of the rail- pressure sensor varies by less than 5 mV.		voltage between 9 V and 16 V Temperature condition:					power reduction: on - CC message: on		
	Defecting DME the voltage of the rail- pressure sensor varies by lease than 5 mV Potential problem source(s): Defect in wring harness batheren DME and rail- pressure sensor	This fault is logged in the	vollage between 5 V and 15 V Temperature condition: - None Time condition: - None Other conditions:			- Defect in wiring harness between DME and nai- pressure sensor	- Check wiring himness between DME and rail-	power reduction: on - CC message: on - US emissions warning lamp: on - US electronic engine power		
Biology Logy Logy Biology Logy Biology Logy Biology Logy Biology Logy Logy <thlogy< th=""> Logy <thlogy< th=""> <thlogy< th=""> <thlogy< th=""></thlogy<></thlogy<></thlogy<></thlogy<>	Defective DM The voltage of the rail- pressure amount variate by pressure amount variate by pressure amount of mV. Potential problem counce(s); Order of rail- pressure amount Defective rail-pressure amount pressure amount Defective rail-pressure amount pressure frame	The fail is logged in the cost of model's failt memory immediately. more	vollage between 5 V and 15 V Temperature confiden: - None There confiden: - Pome Other confiden: - Engine exceeds 4 - None - Voltage resource exceeds 4	- None NO	Read best data Miccl; 12 5876 N	Defect in wiring harness between DME and nat- pressure sensor Defective sit-pressure sensor Defective pME	Check wintrg harness between DME and rail- pressure sensor Replace mit-pressure sensor Replace DME Check too-pressure system (Tiler, pump	power reduction: on - CC message: on - US entisations warring lang: on - US electronic angine power reduction: on - CC message: on - CC message: on	Peable sparent syngtom: Active in US only	Breakdown rotice: - rotre: - rotre:
Mode Mark Mark Mark base Prot Mark base Prot MOV0112 5x877 1024 Ball passes same, playbity, Style have The degrade function for waters Proto Fail M Presses Same 7.5 Spat Data Fail Registery 100ex / Same 7.5		This field is logged in the control modular's fault memory immediately. rome	onlage takens 9 V and 9 Vergeneration conflore - Home The contraction - More monitories - Engrange of the contraction - Engran	- Now NO	Plead that block, D 5876 N	- Defect in wiring harrens between DME and nai- presson wordr - Defective and greason werear - Defective DME	Chack winny harmess between DME and rail- pressure sensor Popoloo Witter Chack two end pressure sensor Chack two end pressure page large harmess, pages and data harmess, pages and data	power reduction: on - CC message: on - US entistics warring large: on - US electronic engines reduction: on - <u>CC message: on</u> - <u>ECC electronic engine</u> power reduction: on - <u>CC message: on</u>	Adjust VS only	Paukhan rubu -ayu -ayu -ayu -ayu -ayu -ayu -ayu -ay
Biology Logic Logic <thlogic< th=""> Logic Logic <t< td=""><td>Control 2005 Control 2005 C</td><td>The fault is toget in the control module's fault is toget in the control module's fault in the second secon</td><td>Holps between 5 V and 15 V and 15</td><td>-16mg 50</td><td>Paul sut ana block O 3075 N</td><td>Defect in wing termina telescor DME of cal- present answer Defective sub-present sensor . Ordendoe DME Defection for presence system</td><td>Once wing harness brieses DME and ref- present sensor - Report on Agreener sensor - Report on Agreener sensor - Report on Agreener sensor present and for order, sensor, physicing harmess, injection in Information harmess, injection in Information control - Other deplacements in Information - Device in physicane sense in Information - Device in physicane sense - Device i</td><td>power reduction: on - CC massage: on - US interfactors: any on - US interfactors: any one - US relations: on - ECC massage: on - ECC massage: on - CC massage: on - CC</td><td>Advas Vill oly Paulin apparet synphres</td><td>Bothlam ntus</td></t<></thlogic<>	Control 2005 C	The fault is toget in the control module's fault is toget in the control module's fault in the second secon	Holps between 5 V and 15	-16mg 50	Paul sut ana block O 3075 N	Defect in wing termina telescor DME of cal- present answer Defective sub-present sensor . Ordendoe DME Defection for presence system	Once wing harness brieses DME and ref- present sensor - Report on Agreener sensor - Report on Agreener sensor - Report on Agreener sensor present and for order, sensor, physicing harmess, injection in Information harmess, injection in Information control - Other deplacements in Information - Device in physicane sense in Information - Device in physicane sense - Device i	power reduction: on - CC massage: on - US interfactors: any on - US interfactors: any one - US relations: on - ECC massage: on - ECC massage: on - CC	Advas Vill oly Paulin apparet synphres	Bothlam ntus
Biology Logic Logic Biology (Sec 10 / Sec 20 /	Control 2005 C	The fault is togoid in the anith's model's fault memory inmubility mode The fault is togoid in the anith's model's fault memory immubility model models fault memory immubility	shape balance V vie d' vient de la construit de la c	Nera 40	Paut test data block; 0 3019 N Paul penaure sensor veltoge agent V	Defect in using homess belows OME and rule preasure senser Ordection of preasure senser Ordection of preasure specific Ordection of preasure specific Ordection on preasure specific	Oracl wing harmes between DAE and us- pressure sensor Pepicia na pressure areanor Pepicia na pressure areanor Periode and a pressure areanor Periode and a pressure areanor Paresani, a pressione an indicate Inder persone 200 (200 viscosti tea press). Devise adopticati tea hard languareano Devise adopticatione anticolated Devise adoptica	pow relation on - CC message on - US enclose wenny langs on - US electrical regise power - relations and power - CC message on - CC mes	Adva is US only Called a spent of proptime Calle	Bushlam nites - new - new - - new - new - Bushlam nites - disadar disagenta pagatalapata - disadar disal pagatalapata - pagatalapata - disadar disadar pagata - disadar disadar - - disadar disadar - - - - - - - - - -
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		1	1	1	1									-							1 1	
								the rail pressure is below the specified level.			Voltage condition: - Onboard electrical system						 Check low-pressure system (filter, pump pressure and flow rate, sensor, pluga/wiring 	Lamp: on - ECE electronic engine				
								Potential problem source(x)			voltage between 9 V and 15 V						hamess), replace as indicated - Low-pressure ECU (EKP electric fuel pump),	- CC message: on				
								- Puel tank empty - Obstruction in fuel filter Eval exerct defective			- None Two exections					- Fuel tank empty Obstruction in fuel filter	- Delete adaptation data for fuel low-pressure	- US emissions warning			Breakdown notice: The engine reverts to its imp-home program, continued which a security is prescribe but	
MELENTS		Mink assesses first markets first assesses	The diagnostic function monitors the high-		Eval Red Deserves Maleson Deserves Ealler			Defective rail-pressure	This fault is logged in the		- None			that every second units		- Costruction in fail filter - Fuel pump defective	Check rail pressure sensor incl. pluga/wiring because exclose as indicated	- US electronic engine power			drivability is restricted, because power is	
BN2000	0x2C01 112	55 Minimum pressure undershot	pressure levels remain at the specified levels.	P302C	Foe Rail Pressure, Minimum Pressure Fallen Below (Bank 1)	Fuel Regulators / Valves / Sensors	Fuel Rail Pressure	- High-pressure pump	memory immediately.	none	- Ergine ON - None	- No	NO NO	signal	Y	Unrective rai-pressure sensor High-pressure pump defective	Replace high-pressure pump	- CC message: on	none	- Loss of power	maneuvers.	None
								the driver circuit diagnostic function.			Voltage condition: - Onboard electrical system							lamp: on - ECE electronic engine				
								Potential problem source(x)			voltage between 9 V and 15 V							- CC message: on				
								- Defect in plug or wring harness between DME and			- None							- US emissions warning				
			The diagnostic function monitors the flow-control					fow-control valve - Defective flow-control	This fault is logged in the		Time condition: - None					Defect in plug or wiring harness between DME and flow-control valve	 Check plug and wiring harness between flow- control valve and DME 	lamp: on - US electronic engine power				
MEVD17.2- BN2000	0x2C3D 113	Quantity control valve, activation: Short circuit 25 to B+	valve's control-activation wire for shorts to positive.	P0104	Fuel Volume Regulator Control Circuit High	Fuel Regulators / Valves / Sensors	Fuel Volume Regulator	valve - Defective DME	control module's fault memory immediately.	0016	Other conditions: - Engine ON - None	- No	steuern_msv, steuern_ende_msv	PWM activation signal, 0x58/2	N	Defective flow-control valve Defective DME	Replace flow-control valve Replace DME	reduction: on - CC message: on	nare	Possible apparent symptoms: Reduced power	Breakdown notice: None	None
								the driver circuit diagnostic function			Voltage condition:							lamp: on				
								Returned and have assured to			voltage between 9 V and 15							power reduction: on				
								- Defect in plug or wiring			Temperature condition:							- comanage: on				
			The discussion function excellent the flow control					four-control valve	This fact is based in the		Time condition:					- Defect in plug or wiring harness between DME	- Check plug and wiring harness between flow-	lamp: on				
MEVD17.2-		Quantity control valve, activation: Short circuit	valve's control-activation wine for shorts to					- Derective now-control valve	control module's fault		Other conditions		STEUERN_MSV,	PWM activation signal,		Defective flow-control valve	Replace flow-control valve	- US electronic engine power reduction: on		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x2C3E 113	26 to earth	ground	PODOS	Puel Volume Regulator Control Circuit Low	Puel Regulators / Valves / Sensors	Fuel Volume Regulator	- Defective DME the driver circuit diagnostic	memory immediately.	none	Voltage condition:	- No	STEUERN_ENDE_MSV	0:58/2	N	- Defective DME	- Replace DME	- CC message: on lamp: on	norm	Reduced power	Nore	None
								function.			- Onboard electrical system voltage between 9 V and 15							 ECE electronic engine power reduction: on 				
								Potential problem source(s) - Defect in plug or wiring			V Temperature condition							- CC message: on				
								harness between DME and flow-control valve			- None Time condition:					- Defect in plug or witing harness between DME	- Check plug and wiring harness between flow-	- US emissions warning lamp: on				
MEVD17.2-		Quantity control valve, activation: Line	The diagnostic function monitors the flow-control valve's control-activation wire for an open					- Defective flow-control valve	This fault is logged in the control module's fault		- None Other conditions:		STEUERN_MSV,	PWM activation signal,		and flow-control valve - Defective flow-control valve	control valve and DME - Replace flow-control valve	- US electronic engine power reduction: on		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x2C3F 113	27 disconnection	circuit.	P0001	Fuel Volume Regulator Control Circuit/Open	Fuel Regulators / Valves / Sensors	Fuel Volume Regulator	Defective DME the monitored pressure	memory immediately.	none	- Engine ON - None - Onboard electrical system	- No	ione STEUERN_ENDE_MSV	0x58/2	N	- Defective DME	- Replace DME	- CC message: on	none	Reduced power	None	None
								exceeds the specified pressure.			voltage between 9 V and 15 V							- ECE emissions warning				
								Potential conhiem arcana(a)			Temperature condition:							lamp: off				
								Boost-pressure sensor is defective or has been			Time condition: - None					- Boost-creasure sensor is defective or has		power reduction: off - CC message: none				
								tampered with - Electropneumatic pressure			Other conditions: - Engine speed above 1900					been tampered with - Electropneumatic pressure converter in		- US emissions warning			Breakdown notice: The engine reverts to its imp-home program,	
								converter in wastegate valve is defective	The diagnostic fault code is logged when the fault		rpm - Engine load			STAT_ATLSVC_DPVDK2_W ERT must lie within a defined	1	wastegate valve is defective - Wastegate valve is defective (seized in closed	Check wiring harness Boost-pressure sensor	lamp: on - US electronic engine power			continued vehicle operation is possible but drivability is restricted, because power is	
MEVD17.2- BN2000	0x2C56 113	Boost pressure control, upper value: Boost 50 pressure too high	The diagnostic function monitors the pressure measured by the boost-pressure sensor.	P0234	Turbochargen/Supencharger 'A' Overboost Condition	Supercharger Boost Pressure	Pressure	- Wastegate valve is defective (seized in closed	remains present for longer than 1 min.	none	Turbocharger boost in control range - None	- No	stevern_systemtest_att status_systemtest_att	pressure range (see test plan).	N	position) - Vacuum line defective	Check electropneumatic pressure converter Check vacuum line and vacuum	reduction: on - CC message: on	none	Possible apparent symptoms: - Reduced power	reduced the driver should refrain from passing maneuvers.	None
								the monitored pressure is less than the specified														
								pressure.			Voltage condition: - Onboard electrical system											
								Potential problem source(s) - Boost-pressure sensor			voltage between 9 V and 15 V							- ECE emissions warning				
								defective - Defective electropneumatic			Temperature condition: - None					- Boost-pressure sensor defective		lamp: off - ECE electronic engine				
								pressure converter in wastegate valve		1	Time condition: - None					 Defective electropreumatic pressure converter in wastegate valve 		power reduction: off - CC message: none				
								- Wastegate valve is defective (seized in open		1	Other conditions: - Engine speed above 1900					- Wastegate valve is defective (seized in open position)	Check wiring harness Boost-pressure sensor	- US emissions warning			Breakdown notice: The engine reverts to its limp-home program.	
								position) - Air-induction tract between	The diagnostic fault code is logged when the fault	1	rpm - Engine load			STAT_ATLSVC_DPVDK2_W ERT must le within a defined	() I	- Air-induction tract between turbocharger and intake-air plenum has leak	Check electropneumatic pressure converter Check vacuum line and vacuum	lamp: on - US electronic engine power			continued vehicle operation is possible but drivability is restricted, because power is	
MEVD17.2- BN2000	0x2C57 113	51 Charge-air pressure control, lower value: Boost pressure too low	The diagnostic function monitors the pressure measured by the boost-pressure sensor.	P0259	TurbochargenSupercharger '# Underboost Condition	Supercharger Boost Pressure	Pressure	turbocharger and intake-air plenum has leak	remains present for longer than 1 min.	none	- Turbocharger boost in control range - None	- No	stevern_systemtest_at status_systemtest_at	pressure range (see test plan).	N	Vacuum line for controlling wastegate valve is defective	Check air-induction tract between turbocharger and intake-air plenum for vacuum leaks	reduction: on - CC message: on	none	Possible apparent symptoms: - Reduced power	reduced the driver should refrain from passing maneuvers.	None
								Collective fault, only serves to trigger the emissions			Voltage condition: - Onboard electrical system							Lamp: off - ECE electronic annina				
								warning lamp, and can also trigger a CC message. The			voltage between 9 V and 15 V							power reduction: off - CC message: move				
								response to the fault is specified for a different fault		1	Temperature condition: - None							- US emissions warning			Breakdown notice: The engine reverts to its imp-home propriam	
					1			entry.	This fault is locosid in the	1	Time condition: - None							lamp: on - US electronic engine power			continued vehicle operation is possible but drivability is restricted, because power i*	
MEVD17.2- BN2000	012058 1	Boost pressure control, deactivation: Boost- 52 pressure build-up Norked	The diagnostic function monitors the DME's desctivation of active horset	P1260	Turbocharger/Supercharger Boost Control Cut- Off (Bank 1)			Potential problem source(s) - None	control module's fault	Terminal 15	Other conditions:		NO NO	NO	[- None	- None	reduction on	Done	Possible apparent symptoms: - Reduced power	reduced the driver should refrain from passing maneuvers.	Boost-pressure control is deactivated to grotect the engine
		PLANE CONTRACTOR MADA	Annual Annual Profile Solder.	- 1450				the boost-pressure sensor's	and a contract material sector	CALCULAR DA	Voltage condition:	- NO	1957					lamp: on				Provide States
								votage exceeds 4.9 V.		1	voltage between 9 V and 15							- ELE exchanic engine power reduction: on				
								- Defect in wiring harness		1	Temperature condition:							- UL message: on				
								pressure sensor	This fact in the second s		- None Time condition:					- Defect in wiring harness between DME and	- Check wiring harness between DME and boost-	- US emissions warning lamp: on				
MEVD17.2-		Boost pressure sensor, electrical: Short circuit	The diagnostic function monitors the wire to the		Turbochærgen/Supercharger Boost Sensor W			- pope-pressure sensor defective	 ne taut ta logged in the control module's fault 		Other conditions:			Read test data block;		occer-pressure sensor - Boost-pressure sensor defective	pressure sensor - Boost-pressure sensor	- up excronic engine power reduction: on		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x2C6F 113	75 to B+	boost-pressure sensor.	P0238	Circuit High	Supercharger Boost Sensor	Electrical	- Defective DME the boost-pressure sensor's	memory immediately.	Terminal 15	- none - None - None	- No	ione NO	ID SEDE	N	- Defective DME	- Replace DME	- CC message: on lamp: on	norm	Reduced power	Standard EML Text	None
								voltage is less than 4.9 V.			- Onboard electrical system voltage between 9 V and 15							ECE electronic engine power reduction: on				
								Potential problem source(x): - Defect in wiring harness			V Temperature condition:							- CC message: on				
								between DME and boost- pressure sensor			- None Time condition:					- Defect in wiring harness between DME and	- Check wiring harmess between DME and boost-	- US emissions warning lamp: on				
MEVD17.2		Broat massure sensor electrical Short circuit	The diamostic function monitors the wire in the		Turberhamerik merchaner Boret Server W			Boost-pressure sensor defective	This fault is logged in the control montplate fault		- None Other conditions:			Read test data block		boost-pressure sensor	pressure sensor	- US electronic engine power		Drouble arranged symptomy-	Breakriven police	
BN2000	0x2C70 113	76 to earth	boost-pressure sensor.	P0237	Circuit Low	Supercharger Boost Sensor	Electrical	- Defective DME	memory immediately.	Terminal 15	- none - None	- No	NO NO	ID SEDE	N	- Defective DME	- Replace DME	- CC message: on	none	Reduced power	Standard EML Text	None
								deviates from the average										EPE animiner anning				
								(barometric pressure, boost			Voltage condition:							- ELE emissions warring lamp: on				
								pressure, intake-manifold pressure) by more than 70			- Onboard electrical system voltage between 9 V and 15							- ECE electronic engine power reduction: on				
			During the control module's shutdown phase the					mbar.			V Temperature condition:							- CC message: on				
			pressure sensor, intake-manifold pressure					Defective wiring harness			- None Time condition:							- US emissions warring lamp: on				
MEVD17.2-		-	sensor and boost-pressure sensor to determine whether they are all measuring the same		Boost Sensor 'A' Afterrunning Diagnosis			- Sensor has been tampered with	This fault is logged in the control module's fault		- 5 sec. after engine off Other conditions					- Defective wiring harness - Sensor has been tempered with	- Check wiring harness	- US electronic engine power reduction: on		Possible apparent symptoms:	Breakdown notice:	
512000	042071 113	boost pressure sensor. Pressure too nign	pressure.	P12Pg	Pressure Loo righ	Supercharger boost Sensor	Astronomy	the boost-pressure sensor	memory immediately.	none	- Shutdown priase - None	-58	sec ane engre on NU	Inone	N	- Senacr delective	- Haptace sensor	- CC message: on	none	NON	NONE	NONE
								for the pressure sensors			- Onboard electrical system							- ECE emissions warning lamp: on				
								(barometric pressure, boost pressure, intake-manifold			voltage between 9 V and 15 V							 ECE electronic engine power reduction: on 				
			During the control module's shutdown phase the					pressure) by less than 70 mbar.			Temperature condition: - None							- CC message: on				
			diagnostic function monitors the barometric pressure sensor, intake-manifold sensor and the					Potential problem source(x)			Time condition: - 5 sec. after engine off							- US emissions warning lamp: on				
MEVD17.2-			pressure sensor on the air-intake side of the throttle valve to determine whether they are all		Boost Sensor 'X' Afterrunning Diagnosis			- Wiring harness defective - Error in sensor	This fault is logged in the control module's fault		Other conditions: - Engine on					Wring harness defective Error in sensor measurement	- Check wiring harness	- US electronic engine power reduction: on		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x2C72 113	78 Boost pressure sensor. Pressure too low	measuring the same pressure.	P12A8	Pressure Too Low	Supercharger Boost Sensor	Atterrunning	prior to engine start, the	memory immediately.	none	- Rall pressure > 4 MPa - None	-51	5 sec. after engine off NO	none	N	- Sensor has been tampered with	- Replace sensor	- CC message: on	none	None	None	None
								absolute boost pressure is greater than 3.0 bar, or the														
								absolute boost pressure is greater than 1.4 bar.										MY10 ECE: - ECE emissions warning				
								Potential problem source(s)			Voltage condition: - Onboard electrical system							lamp: off - ECE electronic engine				
								- Defect in boost-pressure system			voltage between 9 V and 15 V							- CC message: on				
								- Defect in wiring harness between boost-pressure			Temperature condition: - None					- Defect in boost-pressure system	Check air-induction system operation (wastegate, etc.,)	MY11 US: - US emissions warning				
								- Boost-pressure sensor	This fault is logged in the		Time condition: - None					- Defect in wiring harness between boost- pressure sensor and DME	 Inspect wining harmess between DME and boost- pressure sensor 	lamp: on - US electronic engine power				
MEVD17.2- BN2000	0x2C83 113	Boost pressure sensor, plausibility: Pressure before throttle valve too high	The diagnostic function monitors the boost pressure.	P0234	TurbochargenSupercharger 'A' Overboost Condition	Supercharger Boost Pressure	Pressure	defective - Defective DME	control module's fault memory immediately.	Terminal 15	Other conditions: - none - None	- No	icos NO	Read test data block; ID 58DD	N	Boost-pressure sensor defective Defective DME	Boost-pressure sensor Replace DME	reduction: on - CC message: on	0208	Possible apparent symptoms: Reduced power	Breakdown notice: Standard EML Text	None
								Collective fault, only serves			Voltage condition:							- ECE emissions warning lamp: off				
								to trigger the emissions warning lamp, and can also			- Onboard electrical system voltage between 9 V and 16							 ECE electronic engine power reduction: on 				
1								trigger a CC message. The response to the fault is		1	V Temperature condition							- CC message: on MY11 US:				
								apecified for a different fault entry.		1	- None Time condition:							- US emissions warning lamp: on				
MEVD17.2-		Boost pressure sensor, plausibility: Pressure	The diagnostic function monitors the boost-		Turbochargen/Supercharger 'X' Underboost			Potential problem source(s):	This fault is logged in the control module's fault		- None Other conditions:			Read test data block;				- US electronic engine power reduction: on		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x2C84 113	96 before throttle valve too low	pressure sensor.	F0259	Condition	Supercharger Boost Pressure	Pressure	- None the boost pressure is higher	memory immediately.	Terminal 15	- none - None	- No	NO NO	10 5800	PN	- None	- None	- CC message: on	none	Reduced power	Standard EML Text	None
					1			than the ambient barometric pressure while the engine is		1								MY10 ECE:				
								not running.		1	Voltage condition:							- ECE emissions warning lamp: off				
								Potential problem source(s) - Defect in boost-pressure		1	- unboard electrical system voltage between 9 V and 15							- ECE electronic engine power reduction: on				
								system - Defect in wiring harness		1	v Temperature condition:						- Check operation of air system (wastegate,	- CC message: on MY11 US:				
		Band annual of the second s						between boost-pressure sensor and DME	This fact.	1	Time condition:					Letect in boost-pressure system Defect in wring harness between boost-	efc.) - Check wiring hamess between DME and boost-	- us emissions warning lamp: on				
MEVD17.2- BN2000	0121785	before throttle valve too high when engine not	The diagnostic function monitors the boost	D1067	Charge Air Pressure in Comparison to Barometric Dressure Two Mich	Supercharger Bonel Deservat3 extent Percent	Consistion	- sous-pressure sensor defective - Defective PANI	control module's fault memory investigation	Terminal 10	Cther conditions: - Eroine OFF		ion an	Read test data block; ID 58DD	N	- Boost-pressure sensor defective - Defective DMF	- Boost-pressure sensor - Boost-pressure sensor - Rentare DM ^{III}	reduction on	-	Possible apparent symptoms: Barbarant nonan	Breakdown notice: Streatert FML T	Nirowa
042000	113		pressure.	FINEA	and an arrival research 100 mgs	Concernent of the Pressure of Cost (Pressure	Contrastor	the boost pressure is lower			- 1008	- No			1	Landara trad	repair cel	CT	100.00	resources ported	- In terms in the 1820	Photo:
					1			pressure while the engine is		1								MY 10 ECE:				
					1			Determing		1	Voltage condition:							lamp: off				
								Defect in boost-pressure wotern			voltage between 9 V and 15 V							power reduction: on - CC generater				
								- Defect in wiring harness between horse-		1	Temperature condition: - None					- Defect in broat consume contract	- Check operation of air system (wastegate,	MY11 US: - US emissions within				
		Bread managers spaces also shits for						sensor and DME	This fault is bound in th	1	Time condition:					Defect in wring harness between boost- ressure server and PARE	Check wiring harness between DME and boost-	lamp: on				
MEVD17.2- BN2000	0121741	before throttle valve too low when engine not	The diagnostic function monitors the boost	PIOPS	Charge Air Pressure in Comparison to Bargenetric Pressure You 1	Supercharger Bonel Deserval3 extent Process	Consistion	- unue-pressure sensor defective - DMF defective	control module's fault memory investigation	Terminal 10	Cther conditions: - Eroine OFF		ion NO	Read test data block; ID 55DD	N	- Boost-pressure sensor defective - DMII refertive	- Boost-pressure sensor - Boost-pressure sensor - Rentare DM ^{III}	reduction on	-	Possible apparent symptoms: Barbarant nonan	Breakdown notice: Streatert FML T	Nirowa
					the second star bow			the driver circuit's diagnostic	,		Onboard electrical system	- ND			1	and an and a	comparent months	tamp: off				
					1			function.		1	V v							- ELE existence engine power reduction: off				
1								- Operation problem source(s) - Defect in wiring harness halvesen		1	- None							- UL message: on				
1								valve and DME	This fact in the second s		- None					- Defect in wiring harmess between compressor	- Check wiring harness between compressor	- US emasons warning lamp: off		Beerle		
MEVD17.2-			The diagnostic function monitors the wire to the		Turbocharger/Supercharger Bypass Valve W			- compressor bypass valve defective	 res taux ta logged in the control module's fault 		- Control signal being		STEUERN_ULV,			oypass valve and DME - Compressor bypass valve defective	trypass valve and DME - Replace compressor bypass valve	- up electronic engine power reduction: off		Power reduction, CC message for engine	Breakdown notice:	
BN2000	012088 114	up a Diverter valve, actuation: Short circuit to B+	compressor bypass valve.	P0035	Control Circuit High	Supercharger Bypass Valve	Electrical	- Defective DME the driver circuit's diagnostic	memory immediately.	Terminal 15	voltage condition:	- Np	STEUERN_ENDE_ULV	PWM activation signal	10	- Defective DME	- Replace DME	Lamp: off	Date	mailunction	Nore	Non
1								function.		1	- Onboard electrical system voltage between 9 V and 15							ECE electronic engine power reduction: off				
								Potential problem source(s) - Defect in wiring harness		1	V Temperature condition:							- CC message: on				
					1			between compressor bypass valve and DME		1	- None Time condition:					- Defect in wiring harness between compreserve	- Check witing harness between compressor	- US emissions warning lamp: off				
MEVD17.2-			The diagnostic function monitors the wire to the		Turbocharger/Supercharger Bypass Valve '4'			- Compressor bypass valve defective	This fault is logged in the control module's fault	1	- None Other conditions:		STEUERN ULV.	1		bypass valve and DME - Compressor bypass valve defective	bypass valve and DME - Replace compressor bypass valve	- US electronic engine power reduction: off		Possible apparent symptoms: Power reduction, CC message for engine	Breakdown notice:	
BN2000	0x2C89 114	01 Diverter valve, actuation: Short circuit to earth	compressor bypass valve.	P0034	Control Circuit Low	Supercharger Bypass Valve	Electrical	- Defective DME	memory immediately.	Terminal 15	- none - None	- No	Ione STEUERN_ENDE_ULV	PWM activation signal	N	- Defective DME	- Replace DME	- CC message: on	none	mailunction	None	None
1								function.		1	voltage between 9 V and 15							- ECE electronic engine				
								Potential problem source(s)		1	Temperature condition							- CC message: on				
								- Livenect in witing harness between compressor bypass			Time condition:					- Datient in wining home where	- Chark witten homen heter	- US emissions warning				
			The descents bandles are set of the		Television Terror			Compressor bypass valve	This fault is logged in the	1	Other conditions:					bypass valve and DME	bypass valve and DME	- US electronic engine power		Possible apparent symptoms:	Bandada	
ME V017.2- BN2000	0x2C8A 114	02 Diverter valve, actuation: Line disconnection	compressor bypass valve.	P0033	Control Circuit	Supercharger Bypass Valve	Electrical	- Defective DME	memory immediately.	Terminal 15	transmitted to compressor - None	- No	ione STEUERN_ENDE_ULV	PWM activation signal	N	Defective DME	response compressor pypass valve Replace DME	- CC message: on	none	mailunction	None	None
								The fault is recognized when		1	Voltage condition: - Onboard electrical system							lamp: off - ECE electronic engine				
								the airflow upstream from the throttle valve is			voltage between 9 V and 15 V							power reduction: off - CC message: none				
					1			interrupted.		1	Temperature condition: - None						- Read out faults logged in control module: If the temperature was less than 0°C when the	- US emissions warning				
			The diagnostic function monitors the					Potential problem source(s) - Seized compressor bypass	This fault is logged in the	1	Time condition: - None						fault was logged, ice may have been present. Delete stored fault codes, no additional action	Lamp: off - US electronic engine power				
MEVD17.2- BN2000	0x2C90 114	08 Blow-off valve, mechanics: Jammed closed	compressor bypass valve to determine if it is setzing in its closed position.					valve - Diverter valve defective	control module's fault memory immediately.	none	Other conditions: - Engine ON - None	- No	ione NO	none	N	Seized compressor bypass valve Compressor bypass valve defective	required Replace compressor bypass valve - Replace turbocharger.	reduction: off - CC message: none	none	Possible apparent symptoms: Increased pumping noise from turbocharger	Breakdown notice: None	None
				-				The fault is recommend by			Onboard electrical system voltage between 0 V and 1*							lamp: off				
								the driver circuit's diagnostic		1	V Termenal in a combine							- ELE existing engine power reduction: off				
								runction.			- None							- UL message: on				
			The downsted					- Otensial problem source(s) - Defective wiring harness	This fact.	1	- None					- Defective wiring harness	Page 1	- us emissions warning lamp: on		Beerle		
MEVD17.2-		Westernie und in some mit in sin some	re dagnostic function monitors the electrical wire from the DME to the electropresentatic		Turbochargen/Supercharger Wastegate Solenoid			Electropreumatic pressure converter is defective	this fault is logged in the control module's fault		- Engine on		stevern_ids1,	PWM activation signal, Octools		cliectropreumatic pressure converter is defective	Check wiring harness Replace electropresumatic pressure converter	- uS electronic engine power reduction: on		Possible apparent symptoms: CC message, customer proceeds to service	Breakdown notice:	
anzood	, ment 114	 	pressure COTVETER.	- 1240	- ngn			- Derecald LINE		1.016	ranne agria aygeet to None	j-No	and stellers, enderings	- annual	102	- Demone DWE	 rospade LWE 	- GG messilge: Of	0006	secony, real of power		10.08

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sting after cata mail realistance	The dispects function motion the difference between the expected on the sound internet which is the base of the colding converter.	The stagnands function monitors the difference between the explosit or relation at stream Mill. Organization monitors the difference provide the explosit or monitors at all the stream Provide the stream (Stream Stream Str	Image: Second	No. Organization intervention the designed production interventintervention intervention interve	No. Organization intervention in defense intervention intervention interventintervention interventintervention intervention interventi	No. Specific lottine reduction for specific lottine reductin reductin reductin reduction for specific lottine reductin reduc	n superior n super	name name <td< td=""><td>n number of participant services n number of participant services <td< td=""><td></td><td></td></td<></td></td<>	n number of participant services n number of participant services <td< td=""><td></td><td></td></td<>		

					the voltage of t	oxypen		- Onboard electrical system		1		1			- ECE emissions warning				
					sensor behind to converter n	catalytic ains		voltage between 9 V and 15 V							lamp: on - ECE electronic engine nover reduction: on				
					Potential proble	ouroe(x)		- Engine warried to normal temp, above 80 °C					Minute in the	ferred with house between some	- CC message: on			Breakringen noting-	
		The diagnostic function monitors whether the			- Defective with - Defective with - Oxygen serve	harness The diagnostic fault code behind logged when the fault		- None Other conditions:					- Mistule too rich - Defective wiring harness - Oxygen sensor behind catalytic converter	Inspectaring names active or oxygen sensor behind catalytic converter and DME Replace oxygen sensor behind catalytic	lamp: off - US electronic engine power		Possible apparent symptoms:	Continued driving is possible, but because the oxygen sensor is not ready for closed-loop	
BN2000 0x2D1C 11	1548 system check: Signal fixed at grease	convertier remains shuck at a high value. P2271	Sensor 2)	Oxygen Serecr, Rear	Signal Check - Defective	ME than 10 min.	none	- Engine on - Steady-state at low to - Onboard electrical system	temperature, more than 80°C	- None	NO none	N	- Defective DME	- Replace DME	- CC message: none	none	consecutive driving cycles	centre, conversion or exhause gases in the catalytic converter will be seriously impaired.	None
					The fault is reco an electrical ma	ced when		voltage between 9 V and 15 V Temperature condition							- ECE emissions warning larno: on				
					present in the cx behind the	in sensor Nytic		- Engine warmed to normal temperature, more than 80°C	5						ECE electronic engine power reduction: on CC messages ap				
					Potential proble	ouroe(s)		 Establishing as semperature as post-catalyst oxygen sensor not higher than 800 °C 	- Engine warmed to normal		Read-out available from teater service			- Check the connection between the DME and	- US emissions warning			Breakdown notice:	
NEV017 2	Occurren sensor after ratabetir converter	The diagnostic function monitors electrical white of the occurs sensor behind which in	02 Sensor Climit Hinh Volkare (Bark 1 Sensor		Defective with Oxygen serv catabolic converte	hamess behind This fault is logged in the effective control methods fault	-	Time condition: - Active heating activation more than 1 min	temperature, more than 80°C - Exhaust-gas temperature at post-catalyst oxygen sensor	- Active heater activation	STATUS_MESSWERTELOC K_LESEN ': Argument name 1USN1 ' or identifier		Defective wiring harness Oxygen sensor behind catalytic converter defective	the oxygen sensor behind catalytic converter - Replace oxygen sensor behind catalytic converter	lamp: off - US electronic engine power reduction: off		Possible accurrent symptoms:	Continued driving is possible, but because the oxygen sensor is not ready for closed-loop control, conversion of exhaust pases in the	
BN2000 0x2D1F 11	1551 electrical: Short circuit to B+	converter. P0128	2)	Oxygen Senecr, Rear	Electrical - Defective	ME memory immediately.	none	Other conditions: - Onboard electrical system without induced M	not higher than 800 °C	more than 1 min.	NO TudA13 '	N	- Defective DME	- Replace DME	- CC message: none	none	MIL tamp on after second driving cycle	catalytic converter will be seriously impaired.	None
								V Temperature condition											
					The fault is reco	ped when		Engine switched off at temperature higher than 60 C	- Ennine switched off at						- ECE emissions warning				
					present in the co behind the	in sensor Nytic		- Engine starting temperature less than 40 °C, then engine	e temperature higher than 60 °C						ECE electronic engine power reduction: on				
					Conver Potential proble	ouros(s):		temperature - Exhaust-gas temperature at	Engine starting temperature less than 40 °C, then engine it warmed to normal		Read-out available from teater service			- Inspect wiring harness between oxygen sensor	- CC message: on - US emissions warning			Breakdown notice:	
NEVD17.2.	Occurren sensor efter relabelir converter	The diagnostic function monitors electrical white of the occurs sensor behind which in	02 Sensor Cimit Los Voltere (Bark 1 Senare		- Defective with - Oxygen sense catalogie convertient	tamess behind Alforetus Alforetus mittarik is mit		post-catalyst oxygen senaor not higher than 800 °C Time condition:	temperature - Exhaust-gas temperature at maturational courses sensor	- Arthur heater activation	STATUS_MESSWERTBLOC K_LESEN : Argument name 11/2011 / or identifier		Defective wiring harness Oxygen sensor behind catalytic converter defective	behind catalytic converter and DME - Replace coypen sensor behind catalytic converter	lamp: off - US electronic engine power reduction: off		Drouble arrowed symptoms	Continued driving is possible, but because the oxygen sensor is not ready for closed-loop control conversion of achieved reases in the	
BN2000 0x2D20 11	1552 electrical: Short circuit to earth	converter. P0137	2)	Oxygen Senadr, Rear	Electrical - Defective	ME verifiably full	none	Active heating activation Onboard electrical system	not higher than 800 °C	more than 1 min.	ND TURBATS'	N	- Defective DME	- Replace DME	- CC message: none	Date	MIL lamp on after second driving cycle	catalytic converter will be seriously impaired.	Nom
					The fault is reco	ped when		voltage between 9 V and 15 V Temperature condition							- ECE emissions warning				
					an electrical ma present in the co	nction is in sensor		- Engine warmed to normal temperature, more than 80°C							lamp: on - ECE electronic engine				
					conver	uyac .		- Establish-gas semperature at post-catalyst oxygen sensor for detection of signal	- Engine warmed to normal		Read-out available from			 Inspect wiring harness between oxygen sensor behind catalytic converter and DME 	- CC message: on				
					Potential proble - Defective with - Orware sen	ource(s): harness The diagnostic fault code habinst Increased when the field	-	Interruption: 600.800 °C Time condition:	temperature, more than 80°C - Exhaust-gas temperature at most-catelost courses sensor		STATUS_MESSWERTELOC		Defective wiring harness Openen sensor babling celebric converter	Check heating of oxygen sensor behind catalytic converter Benlare rownen sensor behind ratebuir	US emissions warning lamp: off US electronic envire			Breakdown notice: Continued driving is possible, but because the counter sensors is not ready for closed-loop.	
MEVD17.2- BN2000 0x2D22 11	Oxygen sensor after catalytic converter, 1554 electrical: Line disconnection	The diagnostic function monitors the oxygen sensor behind catalytic converter. P0136	O2 Sensor Circuit (Bank 1 Sensor 2)	Oxygen Sensor, Rear	Electrical catalytic converts	efective remains present for long ME than 6 min.	per none	more than 1 min. Other conditions:	for detection of signal interruption: 600. 800 °C	- Active heater activation more than 1 min.	1USN1 'or identifier NO 10x5A13 '	N	defective - Defective DME	converter - Replace DME	reduction: off - CC message: none	none	Possible apparent symptoms: MIL lamp on after second driving cycle	control, conversion of exhaust gases in the catalytic converter will be seriously impaired.	None
					an electrical ma present in the ox	nction is in sensor		Onboard electrical system voltage between 9 V and 16 V							lamp: on - ECE electronic engine				
					conver			Temperature condition: - Engine warmed to normal			Read-out available from				- CC message: on				
	Oxygen sensor before catalytic converter, pump power cable : Oxygen sensor control	The diagnostic function monitors the voltage of	02 Sensor Lambda Controller Value Above		Potential proble - Defective with - Oxygen sense	ource(s) terness before This fault is logged in th		temp, above 80 °C Time condition: - None			Inster service 'STATUS_MESSWERTBLOC K_LESEN': Argument name:		Defective wiring harness Oxygen sensor before catalytic converter	Check wiring harness between pre-catalyst oxygen sensor and DME	US emissions warning lamp: off US electronic engine power		Possible apparent symptoms: - MIL lamp lights up after 2nd driving cycle - Higher exhaust emissions	Breakdown notice: Continued driving is possible, but because the oxygen sensor is not ready for dosed-loop	
MEVD17.2- BN2000 0x2D23 11	value above threshold due to open pump curre 1555 cable	Int the oxygen sensor before the catalytic converter. P3018	Threshold due to Open Pumping Current Circuit (Bank 1 Senaor 1)	Oxygen Sensor, Front	Positive Current - Defective	efective control module's fault ME memory immediately.	none	Other conditions: - Engine ON Onhoused electrical contemp	 Engine warmed to normal temperature, more than 80°C 	- None	1USV1 'or identifier '0x6A11	N	defective - Defective DME	Replace pre-catalyst oxygen sensor Replace DME	reduction: off - CC message: none	none	Higher fuel consumption Surge	control, conversion of exhaust gases in the catalytic converter will be seriously impaired.	None
								voltage between 9 V and 15 V											
					The fault is reco	ced when		Temperature condition: - Engine warmed to normal temp, above 80 °C							- ECE emissions warning				
					an electrical ma present in the co	nction is In sensor		Time condition: - Overrun operation must be research for at loss							lamp: on - ECE electronic engine				
					before the conver			seconds and the EGR valve must be closed.			Read-out available from				- CC message: on				
	Oxygen sensor before catalofic resources in	The disgnostic function monitors the voltage of			Potential proble - Defective with - Orenet	ource(x) tamess before This fault is lowned in th		Other conditions: - Engine on - Vehicle underselve		- Overun operation must be present for at least 1	STATUS_MESSWERTBLOC K_LESFN - Answerd		Defective wiring harness Oxygen sensor before callebric converter	Check wiring harness between pre-catalyst coxypen sensor arvi 11481	US emissions warning lamp: off US electronic envine norms		Possible apparent symptoms: - ML tamp lights up after 2nd driving cycle - Higher exhaust emissione	Breakdown notice: Continued driving is possible, but because the oxygen sensor is not ready for closer-lower.	
MEVD17.2- BN2000 0x2024 11	1556 coasting/overrun mode: Signal cutaide limit value	the oxygen sensor before the catalytic converter. P2257	02 Sensor Out of Range During Deceleration (Bank 1 Sensor 1)	Oxygen Sensor, Front	Deceleration - Defection	efective control module's fault ME memory immediately.	none	- Pre-catalyst coypen sensor beated to adequate	Engine warmed to normal temperature, more than 80°C	seconds and the EGR valve must be closed.	NO 1USVI 'or identifier 'bidA11	N	defective - Defective DME	Replace pre-catalyst oxygen sensor Replace DME	reduction: of - CC message: none	Date	- Higher fuel consumption - Surge	control, conversion of exhaust gases in the outsitytic converter will be seriously impaired.	None
					an electrical ma present in the ox	ndion is In sensor lytic		Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine				
					Descre the c			Temperature condition: - Engine warried to normal			Read-out available from				- CC message: on				
		The diagnostic function monitors the voltage of			Potential proble - Defective with - Oxypen sers	ource(x) terness before This fault is logged in th		temp, above 80 °C Time condition: - None			tester service 'STATUS_MESSWERTELOC K_LESEN': Argument name:		Defective wiring harness Oxygen sensor before catalytic converter	Check witing harness between pre-catalyst oxygen sensor and DME	- US emissions warning lamp: off - US electronic engine power		Possible apparent symptoms: - MiL lamp lights up after 2nd driving cycle - Higher exhaust emissions	Breakdown notice: Continued driving is possible, but because the oxygen sensor is not ready for closed-loop	
MEVD17.2- BN2000 0x2D25 11	Oxygen sensor before catalytic converter, line fault: Open circuit, pump current lead	the oxygen sensor before the catalytic converter. P2237	02 Sensor Positive Current Control Circuit/Open (Bank 1 Sensor 1)	Oxygen Sensor, Front	Positive Cament - Defective	efective control module's fault ME memory immediately.	none	Other conditions: - Engine ON	- Engine warmed to normal temperature, more than 80°C	- Norm	NO 1USV1 ' or identifier TodA11	N	defective - Defective DME	Replace pre-catalyst oxygen sensor Replace DME	reduction: off - CC message: none	none	- Higher fuel consumption - Surge	control, conversion of exhaust gauses in the outsitytic converter will be seriously impaired.	None
					Battery voltage: V No deactivation of	ottage to		- Onboard electrical system voltage between 9 V and 15 V							lamp: on - ECE electronic engine power reduction: on				
					pre-catalyst oxy	n sensor purpeixit		Temperature condition: - Engine warmed to normal temp, above 80 ¹⁰			Read-out available from				- CC message: on		Possible arrowed survey	Breakringen poster	
		The diagnostic function monitors the internal			Defective with Oxygen sets	hamess before This fault is logged in th		Time condition: - None			STATUS_MESSWERTELOC K_LESEN ': Argument name:		Defective wiring harness Oxygen sensor before catalytic converter	Check wiring harness between pre-catalyst oxygen sensor and DME	lamp: off - US electronic engine power		MiL lamp lights up after 2nd driving cycle Higher exhaust emissions	Continued driving is possible, but because the oxygen sensor is not ready for closed-loop	
MEVD17.2- BN2000 0x2D27 11	Oxygen sensor before catalytic converter, line 1559 fault: Open circuit, virtual ground	 resistance and the cutput voltage of the cargen sensor before the catalytic converter. P2251 	O2 Sensor Negative Current Control Circuit/Open (Bank 1 Sensor 1)	Oxygen Sensor, Front	Negative Current - Defective The fault is reco	telective control module's fault ME memory immediately. zed when	none	Other conditions: - Engine ON	- Engine warmed to normal temperature, more than 80°C	- Norm	1USV1 'or identifier TodA11 NO	N	defective - Defective DME	Replace pre-catalyst oxygen sensor Replace DME	reduction: off - CC message: none	none	- Higher fuel consumption - Surge	control, conversion of exhaust gases in the catalytic converter will be seriously impaired.	None
					the coypen temperature is	nior low, no													
					(HSVE), no evaluation IC	itin LSU									MY 10:				
					(ICLSU), no sh oxygin sere (LSUKS), no bel	circuit in wines r voltage		Voltage condition:							ECE emissions warning lamp: off US emissions warning				
					fault is present	UBR).		Battery voltage: 10.7 V 15 V						1. Fault is entered without any additional ECU	lamp: off - ECE electronic engine				
					Increased res sensor heater	ource(s) ince in corroded		None Time condition:					Increased resistance in sensor heater or corroded contacts in plug connections	heater: Contact resistance in plugs and in wire too high (DME - wiring harness - sensor), replace	- US electronic engine power reduction: off				
MEVD17.2- 8N2000 0x2028 11	Oxygen sensor before catalytic converter, electric Nernat cell resistance or cenamic fermanatura inclansible. Ine or heating faid	The diagnostic function monitors the temperature of the oxygen sensor before the catalotic consister			contacts in plug or feed abundle of	rectors	Terminal 15	None Other conditions: Engine on	2228	0008	NO mm	N	or a oxygen sensor before cat, wiring fault or baster fault has already been detected	pre-catalyst oxygen sensor if indicated 2. Diagnostic fault code logged together with witten fault. Repair witten fault	- CC message: on MY11: No	0.556	Possible apparent symptoms: MIL lights up when fault is detected in two common thes driving outlines	Breakdown notice:	News
					the lambda sign pre-catelyst cary	from the		Onboard electrical system voltage between 9 V and 15		(balle)	100			Wing dat. Paper wing dat.	- ECE emissions warning lamp: on	(FAX8)	Considering close	HAR	76.48
					deviates too mu lambda signa	from the on the hird the		V Temperature condition: - Engine warmed to premail							ECE electronic engine power reduction: on CC message: on				
					catalytic co	rter.		temp, above 80 °C Time condition:						- Inspect wiring harness between oxygen	- US emissions warning			Breakdown notice:	
NEVD17.2-	Oxygen sensor before catalytic converter,	The diagnostic function monitors the voltage of the pre-catalyst oxygen sensor and compares it with the voltage of the oxygen sensor behind	O2 Sensor Signal Blased Stuck Lean (Bank 1		Potential proble - Defective with	ource(s) This fault is logged in th termess control module's fault		- None Other conditions: - Engine on	- Engine warmed to normal				- Defective wiring harness	Sensors before/behind catalytic converter and DME - Replace oxygen sensors before and behind	- US electronic engine power reduction: off		Possible apparent symptoms: ML lights up when fault is detected in two	Continued driving is possible, but because the oxygen sensor is not ready for closed-loop control, conversion of exhaust gases in the	
BN2000 0x2D33 11	1571 aystem check: Signal fixed at lean	the catalytic converter (at lambda = 1). P2195	Sensor 1)	Oxygen Sensor, Front	Signal Check - Defective oxyg the lambda sign	sensors memory immediately. from the	none	No diagnostic fault codes Onboard electrical system	temperature, more than 80°C	- None	NO none	N	- Defective coygen sensors	catalytic converter	- CC message: none	none	consecutive driving cycles	catalytic converter will be seriously impaired.	None
					pre-caseyat oxy deviates too mu lambda signa	from the		V Temperature condition							- ECE emissions warning lamp: on				
					oxygen sensor catalytic co	hind the rter.		- Engine warried to normal temp, above 80 °C Time condition:							ECE electronic engine power reduction: on CC message: cn				
					Potential proble	ouros(s)		- None Other conditions:					- Leak in exhaust system before oxygen		- US emissions warning			Breakdown notice:	
NEVD17.2-	Oxygen sensor before catalytic converter,	The diagnostic function monitors the voltage of the pre-catalyst oxygen sensor and compares it with the voltage of the oxygen sensor behind	O2 Sensor Signal Blased/Stuck Rich (Bank 1		- Leak in exhat before coyper - Defective with	system insons This fault is logged in th harness control module's fault		 Engine on No diagnostic fault codes logged indicating a mixture 	- Engine warmed to normal				- Defective wiring harness - Oxygen sensor before catalytic converter	Conduct catalytic converter diagnosis Check wiring harness between pre-catalyst oxygen sensor and DME	- US electronic engine power reduction: off		Possible apparent symptoms: MIL lights up when fault is detected in two	Continued driving is possible, but because the oxygen sensor is not ready for closed-loop control, conversion of exhaust gases in the	
BN2000 0x2D34 11	1572 system check: Signal fload at grease	the catalytic converter (at lambda = 1). P2196	Sensor 1)	Oxygen Sensor, Front	Signal Check - Oxygen serv Valvetroric sys	before memory immediately. n, each	none	fault	temperature, more than 80°C	- None	NO none	N	defective	Replace pre-catalyst oxygen sensor	- CC message: none	nore	consecutive driving cycles	catalytic converter will be seriously impaired.	None
					time the DME co wakes up, and terminals are ch	of module ich time ed on the		Voltege condition: - Onboard electrical system							- ECE emissions warning				
					DME, the upper releasted. This for when the sould	el stop is is logged fella to		voltage between 9 V and 15 V							lamp: off - ECE electronic engine rowar reduction: off		Drouble arrowed symptoms		
					recognize the correc	qota lav		- Engine warmed to normal temp, above 80 °C							- CC message: none		Once the WVT has reached its emergency running position, unlimited throttled operation is		
		The diagnostic function determines whether a			Potential proble - Valvetonic sy	ource(x): m traivel		- None Other conditions:			SYSTEMCHECK_VVT_ANSC			- Check travel stops in cylinder head and on the eccentric shaft	- US electonic engine power		possible. If it fails to reach the emergency running position, results ranging from a power loss to		
MEVD17.2- BN2000 0x2D42 11	1586 Valvetronic, adjustment range: Stop not learn	t valid travel limit is reached during initialization of d the Valvetronic system. P101A	VVT-Self-Learning Function, Stops Not Learned	Valvetronic (VVT)	stops dar Self-Learning Function - Stiction in the	ed vetronic none	Terminal 15	- Initialization of Valvetonic avalenta	- Engine warmed to normal temperature, more than 80°C	- Norm	HLAG hvtsumperf_w STEUERN_VVT vvtdperf_w	Y	Valvetronic system travel stops damaged Stiction in the Valvetronic system	Inspect Valvetronic system to verify correct installation and freedom of movement	reduction: of - CC message: none	none	breakdown vehicle can occur depending on the VVT position that the system does neach.	Breakdown notice: Continued driving is usually not possible.	None
					The fault is reco the adjustme deviates from	range I base		voltage between 9 V and 15 V							samp: off - ECE electronic engine power reduction: off				
					adjustment ran than	by more		Temperature condition: - Engine warmed to normal temp, above 80 ¹⁰						- Repeat Valvetyrein traval alem toronton e	- CC message: none				
		The diagnostic function monitors whether the adjustment range has varied from the base			Potential proble - Wear at the tr	ource(x) il atopa		Time condition: - Adjustment range check			SYSTEMCHECK_VVT_ANSC			refer to service functions - Inspect Valvetronic for mechanical wear and	lamp: off - US electronic engine power		Possible apparent symptoms:	Breakdown notice:	
BN2000 0x2D43 11	1587 check	service life. P1023	Range (Bank 1)	Valvetronic (VVT)	- Wear in the V Self-Learning Function The fact in the V	none none	none	time - Onboard electrical system	temperature, more than 80°C	every 1800 min. of operation	STELLERN_VVT vvtdparf_w	Y	- velar at the travel stops - Wear in the Valvetronic mechanism	eastance to motion Replace components with mechanical wear	- CC message: none lamo: off	note	can be feit	drivability/power	None
					the adjustme deviates from	range I base		voltage between 9 V and 15 V							ECE electronic engine power reduction: off				
					adjuatment ran than	-y CTR		Engine warried to normal temp, above 80 °C						- Repeat Valvetronic travel atop learning routine,	- UC message: none				
MEVD17.2-	Valvetonic, adjustment renner Barne shorts	The diagnostic function monitors the adjustment sarge during the check of the Valvetronic's	WT-Self-Learning Function Finally Advantaged		Potential proble - Wear at the tr - Wear in the t	ource(x): il stope wtonic		Time condition: - Adjustment range check every 18000 min ~f	- Engine warmed to recent	- Adjustment range check every 18000 min. Af	SYSTEMCHECK_VVT_ANSC HLAG		- Wear at the travel shows	refer to service functions - Inspect Valvetronic for mechanical wear and resistance to melion	lamp: off - US electronic engine power reduction: v#		Possible apparent symphone	Breakdown notic+*	
BN2000 0x2044 11	1538 deviation to master adaptation	range. P1023	Range (Bank 1)	Valvettonic.(VVT)	Self-Learning Function mechanisms function the driver circuit	a none legnostic	0016	operating time Voltage condition:	temperature, more than 80°C	operation	STEUERN_VVT widtperf_w	Y	- Wear in the Valvetronic mechaniam	- Replace components with mechanical wear	- CC message: none lamp: on	nane	None	None	Norm.
					functo	purperial:		Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: on CC message: co				
					- Defect in with between DME	VANOS		Temperature condition: - None							- US emissions warning				
MEVD17.2-	Intake VANOS solenoid valve, actuation: Rev	rt The diagnostic function monitors the wire to the	'W Camshaft Position Actuator Control Circuit		solenoid - VANOS sole	d valve This fault is logged in the control module's feet		- None Other conditions:			STEUERN_ENWS, PWM activation signal.		- Letect in wring hamess between DME and VANOS solenoid valve - VANOS solenoid valve defective	- Lneox wring himsis between DME and VANOS solenoid valve - Replace VANOS solenoid valve	lamp: on - US electronic engine power reduction: on		Possible apparent symptoms: CC message, performance reduction. turbo	Breakdown notice:	
BN2000 0x2051 11	1601 circuit to B+	VANOS solenoid valve. P2559	High (Bank 1)	Carrshaft Position Aduator	Intake Electrical - Defective the driver circuit	ME memory immediately. agrostic	none	- Ergine ON Voltage condition:	- None	- Norm	STEUERN_ENDE_ENWS, 0x4a7a	N	- Defective DME	- Replace DME	- CC message: on lamp: on	none	deadivation	None	None
					function Potential problem	ource(x)		- Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: on CC message: on				
					- Defect in with between DME	VANOS		Temperature condition: - None Time condition:					- Defect in which havens have a set	- Chark seize kommen katter men	- US emissions warning				
MEVD17.2-	Intake VANOS solenoid valve, actuation: Sho	f. The diagnostic function monitors the wire to the	'A' Camshaft Position Actuator Control Circuit		solenoid - VANOS sole defect	d valve This fault is logged in the control module's fault		- None Other conditions:			STEUERN_ENWS, PWM activation signal,		VANOS solenoid valve - VANOS solenoid valve	VANOS solenoid valve - Replace VANOS solenoid valve	ump: on - US electronic engine power reduction: on		Possible apparent symptoms: CC message, performance reduction, turbo	Breakdown notice:	
BN2000 0x2052 11	1602 circuit to earth	VANOS solenoid valve. P2086	Low (Bank 1)	Carrshaft Position Actuator	Intake Electrical - Defective the driver circuit	ME memory immediately. lagnostic	none	- Ergine ON Voltage condition:	- None	- None	STEUERN_ENDE_ENWS, 0x4a7a	IN	- Defective DME	- Replace DME	- CC message: on lamp: on	none	deadivation	None	None
					functi Potential proble	ouros(x)		voltage between 9 V and 15 V							- ELLE electronic engine power reduction: on - CC message: on				
					- Defect in win between DME	hamess VANOS		Temperature condition: - None Time convision					- Defect in within humans holocom frame	- Check within hormony between PANE	- US emissions warning				
MEVD17.2-	Intake VANOS sciencid valve, actuation: Line	The diagnostic function monitors the wire to the	W Carrahaft Position Actuator Circuit/Open		- VANCS sole defect	d valve This fault is logged in the control module's fault		- None Other conditions:			STEUERN_ENWS, PWM activation signal,		VANOS solenoid valve - VANOS solenoid valve	VANOS solenoid valve - Replace VANOS solenoid valve	- US electronic engine power reduction: on		Possible apparent symptoms: CC message, performance reduction, turbo	Breakdown notice:	
BN2000 0x2053 11	disconnection	VANGS solenoid valve. PO010	(Bank 1)	Carrishaft Position Aduator	Intake Electrical - Defective the careshaft articut-rise for	vec memory immediately. not be recified	nose	I- Ergine ON	- None	- Norm	DIEUERN_ENDE_ENWS. 0x4a7a	in .	- Defective DME	- Replace DME	- CC message: on	none	deadivation	None	None
					m-p-sited to the positio			Voltege condition: - Onboard electrical system						- Check oil level, change engine oil and filter as	- ECE emissions warning				
					Potential proble - Contaminated at VANOS sole	passage id valve		V and 15 V Temperature condition:						indicated - If faults related to the carnshaft position sensor have been logged, repair these first	lamp: on - ECE electronic engine power reduction: on				
					- Oli pressur - Defective sin	oo low or plug 5 aolemoid		 Engine cold start to ensure that catalyst heater is active. 					Contaminated of passage at VANOS solenoid value Oil measure (m. 100)	Check wiring harness between VANDS solencid valve and DME Deform soular hart	- CC message: on	Fault leads to ATI CTI may (#** T-+++ #**		Breakringen prote	
MENDITE	Manifestary of the American Street Street	The diagnostic function monitors adjustment of	Aug 20		- VANOS sole	d valve logged when the fault		Time condition: - None	- Engine cold start to ensure				Defective wires or plug terminate on VANOS solenoid valve	Check carrahult and VANOS unit for freedom of movement and mechanical damage Chara VANOT	lamp: on - US electronic engine power	7Boost-pressure control, deactivation: Boost- pressure generation disabled?; FC (Dec/Hex)		The engine reverts to its emergency imp-home program, continued vehicle operation is	
MEVD17.2- BN2000 0x2054 11	Variable camshaft timing control (VANOS), 604 exhauat, cold atart not controllable	me exhauat camahait during the catalytic converter's warm-up phase. P0548	Cold Start 'B' Camshaft Position Timing Over- Retarded (Bank 1)	Carrahaft Position Timing	Cold Start - VANOS sole the carenteel	d valve than 1 min.	per none	Other conditions: - Engine ON	shat catalyst heater is active.	- None	Yes NO	N	- VANOS solenoid valve seized - VANOS solenoid valve defective	Clean VANOS solenoid valve, replace as required	reduction: on - CC message: on	Lo: 1180580 / 0x120408; FC (Dec./Hex) L4: 11352 / 0x2C58)	Possible apparent symptoms: - Engine runs poorly	possible, because power is reduced the driver should refrain from passing maneuvers.	None
					adjusted to the position	rectied		Voltage condition:						- Chark of least	- BCE protocology				
					Potential proble - Contaminated	ource(x) passage		voltage between 9 V and 15 V						- unwok ce sever, craange engine oil and filter as indicated - If faults related to the carrshaft position	ELE emissions warning lamp: on ECE electronic engine				
					at VANOS solu - Oli pressur Prefer	id valve so low or plug		Temperature condition: - Engine cold start to ensure that catalout head in					- Contaminated oil passage at VANOS solenoid	sensor have been logged, repair these first - Check wing harness between VANOS solgeniti value and PARI	power reduction: on - CC message: on				
					- Defective set terminals on VAP valv	S solenoid The diagnostic fault code		active. Time condition:					varve - OI pressure too low - Defective wires or plug terminals on VANOS	eventors varve and DME - Perform system test - Check carrethaft and VANOS unit for freedom	- US emissions warning lamp: on	Fault leads to ATLCTLmax (FC Text L6L4: 7Boost-pressure control, deactivation: Boost-		Breakdown notice: The engine reverts to its emergency imp-home	
MEVD17.2- BN2000 0x2055 11	Variable camshaft timing control (VANOS), intake, cold start not controllable	i ne diagnostic function monitors adjustment of the intake-ada carenihalt during the satisfytic conventin's warm-up phase. P0528	Cold Start '# Camshaft Position Timing Over- Retarded (Bark 1)	Camahaft Position Timing	- VANOS sole seiz Cold Start - VANOS sole	o varive logged when the fault remains present for long d valve than 1 min.	per none	- None Other conditions: - Engine ON	 Engine cold start to ensure that catalyst heater is active. 	Norm	Yes NO	N	solencid valve - VANOS solencid valve seized - VANOS solencid valve defective	of movement and mechanical damage - Clean VANOS solenoid valve, replace as required	- US electronic engine power reduction: on	pressure generation disabled?; FC (Dec./Hex) L6: 1180580 / 0x120408; FC (Dec./Hex) L4: 11952 / 0x20288	Possible apparent symptoms: - Endine runs poorly	program, continued whicle operation is possible, because power is reduced the driver should adminis from passing memoryant	Norm

		the artist avels fails in	- Ordinand alertitinal soution					
		conform to the specified angle while the engine is running.	vollage between 9 V and 16 V Temperature condition:		- Check oil level, change engine oil indicated	and filter as - ECE emissions warning lamp: on		
		Potential problem source(x): - Contemined oil passage 4 (MNP): and extension when	- Engine waarned to normal lenge, about 80 °C Time condition:		- If faults related to the carenality assistor trave been logged, repair to - Contaminated oil passage at VANOS solenoid - Check wing harmas between - Check mining harmas between	position - ECE electronic engine these first power reduction: on VANDS - CC message: on		
		OIl pressure too low Defect in wing harness to VANOS solenoid valve logged	Cither conditions: L'Engles on d'urben the fault - Engles on - Specifieddictual angle		OII pressure too low OII pressure too low Oracle in withing harmess to WANCS solenoid Orack currentwith and VANCS unit Orack-bancial OII	US emissions warning Fault leads to ATLCTLmax (FC Text L61.4: for freedom lamp: on ?Boost-pressure control, deactivation: Boost famage - US electronic engine power pressure generation disabled?; FC (Dec.Here		Breakdown notice: The engine reverts to its emergency imp-home program, continued which operation is
NEVD17.2- BN2000 0x200A 11610 VANOS intake: control fault, camabelit stuck limiting adjustment.	halt P13QD /X Camihalt Stuck Camihalt	- VANCS solenoid value remains pr intake Stuck solenoid the the actual angle assumes the	present for longer difference exceeds 15" - Engine warmed to normal ban 1 min. none cavisahalt temperature, more than 80°C Voltage condition:	None Yes NO N	- VANOS solenoid valve seized - Clean VANOS solenoid valve, re - VANOS solenoid valve defective required	epiace as reduction: on L6: 1180580 / 0x120408; FC (Dec./Hax) L4 - CC message: on 11352 / 0x2C55)	Possble apparent symptoms: - Engine runs poorly	possible, because power is reduced the driver about refrain from passing manuscrem. None
		specified angle too slowly while the engine is running. Potential oroblem source/skt	- Onlocand alexhold system voltage between V and 15 V V Tennerature conditor:		- Check of level, change engine of indicated	and filter as - ECE emissions warning larm: on		
		Contaminated oil passage at VANOS solenoid valve Oil pressure too low	- Engine warmed to normal temp, above 80 °C Time condition:		- If finulta related to the commander sensor have basen logged, repair to - Contaminated oil passage at VANOS solenoid - Check widing harmass between	position - ECE electronic engine these finit power reduction: on vVANOS - CC message: on		
		Defective wines or plug terminate on VANOS solenoid valve The diagno VANOS solenoid valve Invened	- None Cher conditions: Cher conditions: 4 when the first - Engine on - Engine on	STELIEDN FAMIS	solution	- US emissions warning Fault leads to ATLCTLmax (FC Text L6L4. for freedom lamp: on / IS electronic ensure nover measure control, deactivation: Boost tempor		Breakdown notice: The engine reverts to its emergency imp-home reverse
MEVD17.2- BN2000 Gx2D5B 11611 VANOS Inske: Centrol fault, position not the dampositic function moniton the came timing adjustment.	haft 70012 "Carrebut Position Timing Over-Related (Bark 1) Carrebut Position Timing	Intake - VANOS solepoid valve the	present for longer difference exceeds 15' - Engine warmed to normal temperature, more than 80'C Onboard electrical system	None STATUS ENVIS NO N	- VANOS solenoid valve seized - Clean VANOS solenoid valve, re - VANOS solenoid valve defective required	eplace as reductors on L6: 1180800 / 0x120408; FC (Dec./Hex) L4 - CC message: on 11352 / 0x2C88)	Possible apparent symptoms: - Engine runs poorly	possible, because power is reduced the driver ahould retrain from passing maneuvers. None
		conform to the specified angle while the engine is sunning.	voltage between 9 V and 15 V Temperature condition:		- Check of level, change engine of a indicated	and filter as - ECE emissions warning lamp: on		
		Potential problem source(s) - Contaminated oil passage 4 (MNP) - Advantation of the source of the	- Engine waarnad to normal lenge, above 80 °C Terre condition:		- If faults related to the carenality aseriser trave been logger, repair 1 - Contaminated oil passage at VANOS solenoid - Check wing harmas between - check wing harmas between	position - ECE electronic engine these finit power reduction: on VANOS - CC message: on		
		Oli pressure too low Oli pressure too low Oli pressure too low Oli pressure too low VANOS solenoid valve logged	naure Other conditions: Englise on d when the fault - Specified/actual angle		OI pressure too low O	- US emissions warning Fault leads to ATLCTLmax (FC Text L&L4: for freedom lamp: on 78bost-pressure control, deactivation: Boost famage - US electoric engine power pressure generation disabled?; FC (Dec.Her		Breakdown notice: The engine revents to its emergrancy imp-home program, continued which operation is
MEV017.2- BN2000 0x2060 11616 VANOS exhaust control fault camshaft also: Iming adjustment.	P13C9 '6' Cambalt Stack Camabalt	Exhaust Stuck Exhaust Stuck the actual angle assumes the	present for longer difference exceeds 15" Engine warmed to normal ban 1 min. none catishaft Voltage condition:	Norm Yes NO N	- VWNOS solenoid valve seized - Ciean VANOS solenoid valve seized - VANOS solenoid valve defective required	epiace as reductor: on L6: 1180580 / 0x120408; FC (Dec./Hex) L4 - CC message: on 11352 / 0x2C58)	Possible apparent symptoms: - Engine runs poorly	possible, because power is reduced the driver about when from passing manazzena. None
		specified angle too slowly while the engine is running. Potential nonham source(s)	- Criticand electrical system voltage between 8 V and 15 V V		- Check oil level, change engine oil indicated	and filter as - ECE emissions warning larms: on		
		Contaminated of passage at VANOS sciencid valve Oil pressure too low	- Engine warmed to normal terrp, above 80 °C Time condition:		- If faults related to the carnshift sensor have been logged, repair 1 - Contaminated of passage at VANOS solanoid - Check writing harmas between	position - ECE electronic engine these first power reduction: on VANOS - CC message: on		
		- Defective wines or plug terminats on VANOS solenoid valve The diagno	- None Other conditions: - Engine on		valve solenoid valve and DMB - OP pressues too kow - Perform system test - Defective wires or plag terminals on VANOS - Check carrelet and VANOS unit f	E - US emissions warring Fault leads to ATLCTLmax (FC Text L61.4: for freedom lamp: on 780cel-pressure control, deactivation: Boost		Breakdown notice: The engine reverts to its emergency imp-home
MEVD17.2- VANOS, eshaut: Control fault, position not The diagnostic function monitors the cares BN2000 0x2001 11017 reached timing adjustment.	haft DO315 TC Carminal Position - Timing Over-Related (Bank 1) Carminal Position Timing	Exhaust - VANOS sciencid valve the	Commit for longer Compared for longer	None STATUS, ANNS NO N	Autoritation from Information Autoritation	epison as epison as -CC message: on -CC message: on -	Possible apparent symptoms: - Engine runs poorly	program, common vencer operation as possible, because power is realized the driver about reinin from passing maneuvers. None
		function. Potential problem source(x):	- Onboard electrical system voltage between 9 V and 15 V			ECE electronic engine power reduction: on CC message: on		
		Defect in wring harness between DME and VANOS solenoid valve	Tempenture condition: - None Time condition:		- Defect in wing harness between DME and - Check wing harness between	- US emissions warning DME and lamp: on		
MEVD17.2- BN2000 0x2098 11975 Short circuit to B* VANOS selencid valve.	o the Tr Carnshaft Position Actualor Control Circuit P2001 High (Bank 1) Centshaft Position Actualor	Exhaust Electrical Control of Con	r Mular of Apple 1 from Photos for Apple 2	None STELIERN, ANWS, PVM activation signal, STELIERN_ENDE_ANWS DovietS N	VANOS solmeida rulas tela veleta VANOS solmeida veleta defective VANOS solmeida veleta VANOS solmeida vel	valve reductions tergen poten valve - CC message: on none	CC message, performance reduction, turbo deadtivation	Breakdown notice: None None
		function. Potential problem source(s):	- Onboard addression system - Onboard addression System voltage between 9 V and 15 V			- ECE electronic engine power reduction: on - CC message: on		
		Defect in wring hamess between DME and VANOS solenoid valve	Temperature condition: - None Time condition:		- Defect in whing harness between DME and - Check whing harness between	- US emissions warning DME and lamp: on		
MEVD17.2- BN2000 0x209C 11676 Short drout to earth VANOS solenoid valve, schuelon: The diagnostic function monitors the wire t	0 the P2000 Tr Camshaft Position Actuator Control Circuit Low (Bank 1) Camshaft Position Actuator	- VANDS solandid valve This taub defective control i Exhaust Electrical Defective DME memory	It is logard in the - None - None - None - Provide National - None - Provide National - None - Provide National - None -	None STELLERN_ANWS, PVM activation signal, STELLERN_ENDE_ANWS Deviato N	VANOS solencid value VANOS solencid value - VANOS solencid value directive - Defective DME - Replace VANOS solencid - Defective DME - Replace DME	- US electoric ergne power valve reductor: on - CC message: on none	Possible apparent symptoms: CC message, performance reduction, turbo deactivation	Breakdown notice: None None
		free criver circuit a degrodec function. Potential problem source(x):	v vatage constance: - Onbicand electrical system voltage between 9 V and 15 V			- ECE electronic engine power reduction: on - CC message: on		
		Defect in wing harness between DME and VANOS solenoid valve	Temperature condition: - None Time condition:		Defect in wiring harmass between DME and - Chack wiring harmass between	- US emissions warning DME and lamp: on		
MEVD17.2- Erhaust VANOS solenoid valve, actuation: Line The diagnostic function monitors the wire t BN2000 0x2020 11677 diaconsection VANOS solenoid valve.	0 the D013 12" Carrelatil Position - Actuator Circuit/Open (Bank 1) Carrelatil Position Actuator	- VANCS solenoid value - VANCS solenoid value defective Control Contr	it is logard in the -None induktive is the conditions: - Induktive is the conditions: None - Non	STELIERN_ANWS, PVM activation signal, None STELIERN_ENDE_ANWS 0x4a7b N	VANOS solencid valve VANOS solencid valve - VANOS solencid valve - Defective DME - Replace VANOS solencid - Defective DME - Replace DME	- US electronic engine power valve reduction: on - CC message: on none	Possible apparent symptoms: CC message, performance reduction, turbo deactivation	Breakdown notice: None None
		and campine is suming over and camping all have been present.	Voltage condition:			- ECE emissions warning larm: on		
		Potential problem source(s): - Defect in wining harness between DME and camshaft	- Onboard electrical system voltage between 9 V and 15 V			ECE electronic engine power reduction: on CC message: on		
		position sensor - Incorrect gap between camshaft position sensor and camshaft sensor reluctor	Temperature condition: - None Time condition: - None		Defect in wring harness between DME and - Check wring harness between cannahult position sensor incommet case between cannahult position sensor incommet case between cannahult cosition - Check installation of cannahult position	DME and - US emissions warning Fault leads to ATLCTLmax (FC Text L61-4: r lamp: on 280ost-pressure control, deactivation: Boost fiton sensor - US electron; engine power pressure control, deactivation: Boost	Possible apparent symptoms:	Breakdown notice: The engine revents to its emergency imp-home cropare.confineed while coexistion is
MEVDIT2- DN2000 Qx2D8F 11679 Istake censtraft sensor: Signal implausible censtraft position sensor.	Ale Cambriel Position Sensor VY Crouit P0341 PargerPerformance (Bark 1 or Single Sensor) Cambriel Position Sensor	ring If the Intelex Plausibility - Sensor contempated or the campbath reference	e 'orankahut Other conditions: is' fasit is present Errojas CN - None - - Othoard electrical system	None NO NO	sensor and carretwit sensor reluctor ring and carretwit position sensor relu- - Sensor conterninated or defective - Replace sensor	uctor ring reduction: on L8: 1180880 / 0x120408; FC (Dec./Hex) L4 - CC message: on 11352 / 0x2C58) - ECE emissions warring	restart possible in combination with an exhaust sensor fault	possible, because power is reduced the driver ahould retrain from passing management. None
		position does not align with the specified position.	voltage between 9 V and 16 V Tempenature condition:			lamp: on - ECE electronic engine power reduction: on		
		- Coose center boit - Carrentwit position sensor reluctor into out of Carrentwit the carrentwith of	- hone Time condition: - None Other conditions:		- Loose center bot - Camshaft coation sensor reluctor rino out of - Camshaft coation sensor reluctor rino out of	- LL message: on afta display relative to - US emissions warning Fault leads to ATLCTLmax (FC Text LSL4: tot lams: on 750ost-snessure control: deschution: Boost		Breakdown notice: The engine events to its emergency into-home
MEVD17.2- BN2000 Qx2DA0 11680 crankath: Angle offield with respect to The diagnostic function monitors the offi environment of the diagnostic function monitors the officient of the diagnostic function monitors the officient of the diagnostic function monitors are diagnostic function monitors and an angle between crankathat and camela	et Carnshell Position Sensor X-Faulty Phase t. P1328 Position (Bank 1) Carnshell Position Sensor	adjustment has shifted t - Timing chain has jumped and the Intake Phase time execute	d by more than or e Engline on e examination and e carshaft position of ded rotations. none carshaft position sensor - None	None NO none N	adjustrent - Check carnaheff position sensor r - Timing chain has jumped time - Check training chain - Defective timing chain (stretched) - Check valve timing	eluctor ring reduction: on - US electronic engine power reduction: on - CC message: on 11352 / 0x2C58)) Possible apparent symptoms: ML comes on	program, confinuad vehicle operation is possible, buccuse power is reclured the three should refrain from passing maneuvers. None
		the engine is turning over and carrahaft signats have been present.				- ECE emissions warning		
		Potential problem source(x): - Defect in writing harmess between DME and camshaft	- Chocard aductional system - Chocard set/activital system voltage between 9 V and 15 V			- ECE electoric ergine power reduction: on - CC message: on		
		position sensor - Incorrect gap between carsshaft position sensor	Tempenture condition: - None Time condition:		Defect in wiring harness between DME and carrahaft polition sensor carrahaft polition sensor carrahaft polition sensor	DME and - US emissions warring Fault leads to ATLCTLmax (FC Text L6L4 or lamp: on ?Boost-pressure control, deactivation: Boost	Possible apparent symptoms:	Breakdown notice: The engine reverts to its emergency imp-home
MEVD17.2- BN2000 0x2DA1 11651 Exhaust camahaft sensor: Signal implausible camahaft position sensor.	Aust Cernshaft Position Sensor W Circuit P03265 Range/Performance (Bank 1) Cernshaft Position Sensor	and camanate service or reluctor ring If the Exhaust Plausibility - Sensor contaminated or revolutional	e 'ozekstvatt Offere conditions: n/ fault is present. none - Engine CN - None	Norma NO NO N	- Incorrect gap services carranter position - Unick imitiation or carranter position and carranter position and carranter position - Sensor contaminated or defective - Replace sensor	tion senter - US electronic engre power pressure generation asabelio /; PC (Dec/Hex) L4	 cosmoles starting time, power loss, and ho reatert possible in combination with an exhaust sensor fault 	program, continues vances operation is possible, because power is recluid the driver schould refrain from passing maneuvers. None
		position does not align with the specified position.	- Uncode association system voltage between V and 15 V V Temperature condition:			ECE electoric engine power reduction: on		
		Potential problem source(s): - Loose center bolt - Carrentert position sensor	- None Time condition: - None		- Unser center bolt aimultaneous angular offset enors	+CC message: on effs display relative to -US emissions warring Fault leads to ATLCTLmax (FC Text LGL4		Breakdown notice:
MEVD17.2- BN2000 0x2DA2 1185 carefulat: Angle offset with respect to Exclusion carefulation ca	et Canstell Position Sensor 10" Faulty Phase Position Gasts 11 Canstell Position Sensor	Exhaust Phase Exhaust A first execution of the execution	Interesting position Utility conductive Utility con	None NO none N	- Lamparan pasator sector neglos or adjaument - Tuning chain has jumped time - Tuning chain has jumped time - Deck timing chain - Deck timing chain	antitic on vibroals pressure control, owacrowator: tooos eluctor ring -US electronic engine power reductor: on -C messare on 11352 / 0x120408; FC (Dec./Hex) L4) Possible apparent symptoms: ML comes on	Inal angelar invariats to its emispinoly anno-home program, continued which capatition is possible, because power is reduced the driver about driver from passing management. None
		the carshaft is not locked during starting.	Voltage condition: - Onboard electrical system voltage between 9V and 15			lamp: off - ECE electronic engine power reduction: off		
		Potential problem source(x) - Engine oil dinty, old or not to specification VANOF engineeration	V Temperature condition: - None Temperature:		- Check engine oil, replace engine o	- CC message: none oil and filter - US emissions warning		
MEVD17.2- BN2000 0x2080 11996 Isching position at last up position locking	at Diamahafi Starting Position not Reached (Bark 1)	- VANOS adjastment dan dity The fa - VANOS adjastment unit defective during a	fault is logged - None ley when it occurs are engine start. none - Engine CN - None	Nome NO NO Y	Engine oil dirty, old or not to specification - Perform system text on VANDS - VANDS adjustment und dirty - VANDS adjustment und direktive - Replace VANDS adjustment	aolenoid - US electronic engine power reduction: off nt unit - CC message: none none	Possible apparent symptoms: - Non-starter in edneme cases	Breakdown notice: - none none
		the carrahalt is not locked during starting.	Voltage condition: - Onboard electrical system voltage between V 2 and 15			lamp: off - ECE lieldonic engine power reduction: off		
		Potential problem source(s) - Engine oil diny, old or not to specification	V Temperature condition: - None		- Check engine of, replace engine	- CC message: none oil and fiber - US emissions warning		
MEVD17.2- VANOS intelex: Intelex careful for the locking The diagnostic function monitors careful BN0000 0x2081 11897 pastion at start up position to data	at A Carmshell Starting Position not Reached (Bark 1)	- VANUS adjustment unit dify The fa - VANUS adjustment unit defective during a	fault is logged - None ley when it occurs are engine start. none - Engine ON - None	None NO NO Y	Engine oil dirty, old or not to specification - Perform system teat or VANDS - VANDS adjustment und teletule - VANDS adjustment und teletule - Replace VANDS adjustment und teletule	amp: on solenoid - US electronic engine power reduction: off nt unit - CC message: none none	Possible apparent symptoms: - Non-starter in externe cases	Breakdown notice: - cone none
		The fault is recognized when a short circuit to positive is	Voltage condition: - Ontocard electrical system			ECE emissions warning lamp: off ECE electronic engine	Possible apparent symptoms:	
		detected when activation votage is transmitted to the Valvetronic relay.	voltage between 9 V and 16 V Verture condition:			power reduction: on - CC message: on MY11 US:	If the maifunction occurs while the VVT system is at maximum stroke extension (full load, vehicle parked), only limited or no effects will	
The diagnostic function monitors electric control-activation of the Valvettoric relay is	cal or a	Potential problem source(x): - Defective withing harmess - Valvetronic relay defective control i	The condition: The condition: I mobile's fault Cher conditions:		Defective wining hamess University of the set	DME and lamp: on - US electoric engine power ay reduction: on	may be fet after CD, starting response). Otherwise breakdown vehicle, as power is no longer transmitted to the VVT system, which	Breakdown notice:
BN2000 042094 11700 Valvetonic relay, activation: Short cerval to B+ ahort circuit to peakive.	P1508 VVT-Relay Circuit High Velwhords (VVT)	Relay - Defective DME memory The fault is recognized when	ry immediately. Terminal 15 - none - None - None - Voltage condition:	None none N	Defective DME Replace DME	- CC message: on none - ECE emissions warring lamp: off ECE emissions	thus closes.	None None
		a short circuit to ground is detected when activation votage is transmitted to the Valvateoric relar.	- Chiboard electrical system voltage between 9 V and 15 V V			ELC: exectrons: engine power reduction: on CC message: on MY11US:	Hosace apparent symptoms: If the mailunction occurs while the VVT system is at maximum stroke extension (ful load, vehicle parked), only limited or no effects will	
The diagnostic function monitors electric	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Potential problem source(x): - Defective witing harness This fault	- None The condition: It is logged in the - None		- Inspect wing harness between - Defective wing harness between Valvetronic relay	- US emissions warring IDME and lamp: on - US electronic engine power	be apparent to the customer. (Switching process may be feit after CD, starting response). Otherwise breakdown whicle, as power is no	
NR:VU1/-2- BN2000 0x2085 11701 each atom stay, activation: Short circuit to activation of the Valvetonic relay for sho circuits to ground.	rt P1507 VVT-Relay Circuit Low Vehydoris (VVT)	Valvetronic relay defective control Palay Officitive DME reamony	n mozaw ti tault Other conditions: ny immediately. Terminal 15 - none - None	None none N	- vanetoric relay defective - Replace Valvetoric rel - Defective DME - Replace DME - Replace DME	reduction: on -CC message: on -ECE ensators warning texture	ionger transmitted to the VVT system, which thus closes.	Breakdown notice: None None None
		The tault is recognized if an open circuit is detected when activation voltage is bransmitted to the	Vulkaje condition: – Onboard electrical system volkaje beteven 9 V and 15 V			extrp: cer - ECE electronic engine power reduction: on - CC message: on	Possible apparent symptoms: If the mathanction occurs while the VVT system is at maximum stroke extension (full load.	
		Valvettonic relay. Potential problem source(s):	Temperature conditor: - None Tree conditor:		- Inspect within harness between	MY11 US: - US emissions warning DME and Lamp: on	vehicle parked), only limited or no effects will be apparent to the customer. (Switching process may be feit after GD, starting response).	
MEVD17.2- BN2000 0x2D86 11702 Valvetonic relay, activation: Line disconnection of the Valvetonic relay for op circuits	n P15DS VVT-Relay Circuit Velwebric (VVT)	Otelective witing harness - Defective witing harness - Valvetonic relay defective control rearrory rearrory	na wagen un det Innolaiste taut ny immediately, Terminal 15 - none - None	None none N	- Lewickle wirtig hannass Valvetroic nitig - Valvetroic initig - Valvetroic initig directive - Replace Valvetroic initi - Defective DME - Replace DME	euclaser englise power eculation: on - CC message: on none	Unterwate preakcown vehicle, as power is no longer transmitted to the VVT system, which thus closes.	Breakdown notice: None None
		time unwalletted driver circuit temperature rises above 150°C.	Vultage condition:			MY10 ECE: - ECE emissions warning lamp: off		
		Potential problem source(x): - Valvelbonic system consumes eccessive energy	- On-bound electricital system wolkage between 9 V and 15 V		Valvetronic system consumes excessive Oneck electrical system val	ECE electronic engine power reduction: on electronic Comessage: on MY11107		
		owing to: - Stiction and high resistance in the Valvetonic system - Assee ("bilgping" the	errorative consister - None Three condition: - None		energy owing io: - If other diagnostic fault codes in - Sticlion and high resistance in the Valvetoric system - Check Valvetoric encharism for C- - Abuse ("bipping" the accelerator pedal, etc.) movement, wear and atiction (with	h these first - US emissions warring firescon of Lamp on h external - US electoric engine power	Possible apparent symptoms:	
MEVD17.2- BN2000 0x20BA 11756 System switch-off temperature of the diver circuit.	VVT-Overlaad Protection Duiput Stage System Valvetoric (IVT)	Overload Protection Prequent open-loop the calculated temperature of	none Territol 15 Char conditions - None - None	None STEUERN_VVT Industrief_w	Frequent open-loop operation (timp-home voltage source connected as m modelkamming routines) Replace components with mecha	equired) reduction: on artical wear - CC measage: on none	Range from no effects to power reduction/breakdown	Breakdown notice: WT driver circuit component protection None
		the Valvetronic actuator motor rises above 200° C / 65535 (temperature in the windings of the Valuetorein				MY10 ECE:		
		servo motor). Potential problem source(a):	Voltage condition: - Onboard effectival system			ECE emissions warning lamp: off ECE electronic engine		
		- Valvebonic system consumes excessive energy owing to: - Risings on the sectors.	voltage between 9 V and 15 V Temperature condition: . Nova		Valvetronic system consumes excessive energy owing to: Sticling and fight vanishes in the Valvetronic	power reduction: on lage - CC message: on slated to MY11 US: https://dx.		
MEVD17.2- Valvetronic, component protection servomotor. The diagnostic function monitors the	VV7-Overlaid Protection Control Motor System	- sevene Mid Figh Headathai in the Walvetonic system - Abase ("biping" the accelerator pedal, etc.)	Two condition: -None Other conditions:	lvvtsumpert_av	Assae ("bipping" the accelerator pedal, etc.) - Preve togen-concerning the accelerator pedal, etc.)	freedom of Lamp: on headranal - US electronic equipe power equired) reduction: on	Possible apparent symptoms: Range from no effects to power	Breakdown notice:
BN2000 0x2088 11707 System welch-off Interpretative of the Velvetonic actuator re	stor. P1000 Bruthren Valwiteric (VVT)	Overload Protection - Frequent open-loop	none Territol 15 - none None	None STEUERN_VVT vvidger(_w Y	modelearning rodines) Replace components with mecha	arical wear - CC message: on none lamp: off - ECE electronic engine	reduction/breakdown	VVT system component protection None
		The fault is recognized when	Voltage condition:			power reduction: off - CC message: none 107 animizing		
MEVD17.2. Valvetonic, accentric shaft adaptation: Lower		? Potential problem source(a): -?	Temperature condition: Time condition:		.7 .7	- US emasore warning tamp: off - US electronic engine power reduction: off	Possible apparent symptoms:	Breakdown notice:
BN2000 Bx2BEC 11776 stop reached Open		- 2 deactivated when a fault is suspected. The fault is	Other conditions: Vutage condition: - Other dedrictical system	- None	-1 -1	- CC message: none new for I-10-03-450 - ECE emissions warning lamp: off	Customer perception in prose at this jundure	- none
		logged when the measured diagnosis voltage is greater than 1.2 V 7 2.3 V and the	vollage between 9 V and 15 V Temperature conditor:			ECE electronic engine power reduction: on CC message: on	Possible apparent symptoms: If the maifunction occurs while the VVT system is not at its maximum stroke position, the	
		voltage behind the Valvetoric relay exceeds 10 V.	- None Time condition: - None Characonditione			MY11 US: - US emissions warring lamp: on /alvetonic - US electonic environ	engine stalla/vehicle breaks down. Engine will not restart, as the VVT driver circuit is deactivated and the VVT system reverts to minimum stopic. If the fault overt	
MEVD17.2- Valvetronic servomotor, activator: Shot circuit actuator motor's three phases for a shot circuit	rcal P1047 WTC/ceter Oncil High Bank 1) Valuatorie (VTD)	Potential problem source(s) This fault Potential problem source(s) memory Control Meter	Invadular's fault Invadular's fault Voltage behind motor relay None None	None more N	- Defective wining harness - Defective wining harness - Valvetronic actuator defective - Reclace Valvetoric actuator	E reduction on note	maximum stroke, unrestricted throttled operation is cossible.	Breakdown notice: No continued driving possible. None

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suspected. The disposite
land costs is logical when the
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during land land land land land land land
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and the voltage problem successful.
Particle problem successful. | Voltage condition:
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nore | Possible apprent symptom:
If the nationation cours while an VVT system
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large of
124 and 124 and | 9
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100% | Possible againet symptom:
If the malfunction occurs while the VV system
is not all is marcurus strate postor, the
regres astalivation braick down. Eugh will
not restart, as the VV disposed occurs
to the transmission braic down and
memory takes. If the fault account all
mechanism strate, unrestricted throttled operation
is possible.
 | Brashdown notes
Carthoud dhing is analy nit yasabha | Norm |
| NENOT 2
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								a short circuit is present in the wire to the radiator vent slats.			Voltage condition: - Onboard electrical system voltage between 9 V and 15						ECE electronic engine power reduction: off				
								Potential problem source(x) - Defect in wiring harness between radiator vent alats	The disancetic fault code is		Temperature condition: - None Time condition:						- US emissions warning lamp: off				
MEVD17.2- BN2000 0	2581 11905	Radiator shutter, activation: Short circuit to earth	The diagnostic function monitors the wiring harness to the radiator vent stats.	P3008	Controlled Air Shutler Circuit Low			and DME - Radiator vent slat assembly is defective	logged when the fault remains present for longer than 1 min.	Terminal 15	- None Other conditions: - none	- None - None	systemcheck_gif	none N	Defect in wiring harness between radiator vent slabs and DME Padiator vent slat assembly is defective	Check wining harness between radiator vent slats and DME Replace radiator vent slat assembly	US electronic engine power reduction: off - CC message: none	none	Possible apparent symptoms: Engine overheating is possible	Breakdown notice: Radiator vent alats should open automatically.	None
								an open circuit is present in the wiring harness to the radiator vent slats.			Voltage condition: - Onboard electrical system voltage between 9 V and 15						lamp: off - ECE electronic engine power reduction: off				
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								vent slats or the wire is open.			Voltage condition: - Onboard electrical system voltage between 9 V and 15						lamp: off - ECE electronic engine power reduction: off				
								Potential problem source(s) - Defect in wiring harness between radiator vent slat			V Temperature condition: - None				- Defect in wiring harness between radiator vent	- Check wiring harness between radiator vent	- CC message: none				
MEVD17.2-			The diagnostic function monitors the activation wire leading to the lower radiator vent stat					assembly (upper radiator slat assembly) and passive cold- air flap system (lower	This fault is logged in the control module's fault		Time condition: - None Other conditions:				stats (upper radiator stat assembly) and passive cold-air flap system (lower radiator vent stat assembly)	slats (upper radiator vent slat assembly) and passive cold-air flap system (lower radiator vent slat assembly)	Lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000 0	2034 11908	Redutor shutter, bottom, electrical, mailunction	assertibly.	P1405	Controlled Lower Ar Shutter Electrical			raclutor alata)	memory immediately.	Terminal 15	- Activated 3 times Voltage condition: - Onboard electrical system	- Norm	systemcheck_g#	none N	- Defect in lower radiator vent aliat assembly	Replace lower radiator vent sist assembly	- CC message: none lamp: on - ECE electronic engine	DODE	Norm	Norm	Norm
								The fault is recognized when combustion miss is present	,		voltage between 9 V and 15 V Temperature condition:						- CC message: on				
MEVD17.2		Contration midfrim several cylinders: Foal	The diagnostic function monitors whether multiple "combustion mice" multiple form					on at seast two cystolers.			- None Time condition: - None Other conditions:						- US emissions warring lamp: on - US electronic engine power		Droshie errorent summore	Residean retire	
BN2000 01	2EE0 12000	injection deadlyation	logged in the course of a single driving cycle.	P0300	RandomMultiple Cylinder Marine Detected	Mafre	Multple	- see individual fault	see Individual fault	none	- Ergine ON Voltage condition:	- Norea	NO	none Y	 - see individual fault	- see Individual fault	- CC message: on lamp: on	none	are individual fault	None	nore
								The fault is recognized when combustion miss is present	,		voltage between 9 V and 15 V Temperature condition:						power reduction: on - CC message: on				
			The diagnostic function monitors whether					on at least two cylinders.			- None Time condition: - None						- US emissions warning lamp: off - US electronic engine power				
BN2000 01	2EE1 12001	Combustion mistring, several cylinders: damaging exhaust gas	multiple "combustion miss" mailunctions are logged in the course of a single driving cycle.	P0300	Random Multiple Cylinder Misfine Detected	Mafre	Multiple	Potential problem source(x) - see Individual fault	see Individual fault	none	- Engine ON Voltage condition:	- None - None	NO	none Y	 - see Individual fault	- see Individual fault	- CC message: none lamp: on	none	Possible apparent symptoms: see individual fauit	Breakdown notice: None	none
								The fault is recognized when	,		- Onboard electrical system voltage between 9 V and 15 V						ECE electronic engine power reduction: on CC message: on				
			The deancetic function monitors whether					on at least two cylinders.			- None Time condition: - None						US emissions warning lamp: off US electronic engine power				
MEVD17.2- BN2000 01	2EE2 12002	Combustion misfiring, several cylinders: damaging exhaust gas after start sequence	multiple "combustion miss" mailunctions are logged in the course of a single driving cycle.	P0300	Random/Multiple Cylinder Mafire Detected	Mafre	Multiple	Potential problem source(x) - see individual fault the combustion stroke in a	see Individual fault	none	Other conditions: - Engine ON Voltage condition:	- None - None	NO	none Y	 - see Individual fault	- see individual fault	reduction: off - CC message: none lamp: on	none	Possible apparent symptoms: see individual faut	Breakdown notice: None	none
								particular cylinder is slower than the combustion strokes on the other cylinders.			- Onboard electrical system voltage between 9 V and 15 V						ECE electronic engine power reduction: on CC message: on				
			The diagnostic function monitors the duration of					Potential problem source(x) Defect in mixture formation	The diagnostic fault code is logged when within 200 : (KFKSWF) crankshaft		Temperature condition: - None Time condition:				- Defect in midure formation		- US emissions warning lamp: on			Breakdown notice: The engine reverts to its imp-home program, continued vehicle operation is possible but	
MEVD17.2- BN2000 01	2554 12004	Combustion misfiring, cylinder 1: Fuel injection desclivation	the combustion strokes and compares them with the remaining cylinders by assessing the rpm signals (segment periods).	P0301	Cylinder 1 Miafre Detected	Mafre	0/1	Defect in ignition system Mechanical defect Defective DME	revolutions a specified number of ignition miss events is detected.	none	- None Other conditions: - Ergine ON	- None - None	NO	- None Y	 - Defect in ignition system - Mechanical defect - Defective DME	- Because this is a secondary fault, start by repairing the primary faults	US electronic engine power reduction: on CC message: on	none	Possible apparent symptoms: - Reduced engine power	drivability is restricted, because power is reduced the driver should refrain from passing maneuvers.	None
								the combustion stroke in a particular cylinder is slower than the combustion strokes	The diagnostic fault code is		Voltage condition: - Onboard electrical system voltage between 9 V and 15						ECE electronic engine power reduction: on				
			The diagnostic function monitors the duration of					Potential problem source(s) - Defect in mixture formation	number of combustion miss events, with their negative effects on exhaust		Temperature condition: - None Time condition:				- Defect in mixture formation		- US emissions warning lamp: of				
MEVD17.2- BN2000 01	2EE5 12005	Combustion miafring, cylinder 1: damaging exhaust gas	the combustion strokes and compares them with the remaining cylinders by assessing the rpm signals (segment periods).	P0301	Cylinder 1 Mafre Detected	Mafre	041	Defect in ignition system Mechanical defect Defective DME	emissions, are recognized within 1000 crankshaft revolutions.	none	- None Other conditions: - Engine ON	None - None	NO	- None Y	Defect in ignition system Mechanical defect Defective DME	Because this is a secondary fault, start by repairing the primary faults	US electronic engine power reduction: off CC message: none	Dece	Possible apparent symptoms: Combustion miss may be noticed.	Breakdown notice: None	None
								the combustion stroke in a particular cylinder is slower than the combustion strokes	The diagnostic fault code is logged when a specific		Voltage condition: - Onboard electrical system voltage between 9 V and 15						lamp: on - ECE electronic engine power reduction: on				
								on the other cylinders. Potential problem source(s):	number of combustion miss events, with their negative effects on exhaust		V Temperature condition: - None						- CC message: on - US emissions warning				
MEVD17.2-	2555 12005	Combustion misfiring, cylinder 1: damaging exhaust rate after start servance	The oblightesic function monitors the duration of the combustion strokes and compares them with the remaining cylinders by assessing the rpm simple (usersand reaction)	80301	Culturer 1 Minfre Datastert	Matre	01	Defect in instance tormation Defect in ignition system Mechanical defect Defective DMI	during the first 1000 crankshaft revolutions fridration the start		- None Other conditions:	None None	NO	- Nore	Denici in moture formation Orfici in ignition system Michanical defect OrficeTexe DMF	- Because this is a secondary fault, start by renaiting the primary fault.	- US electronic engine power reduction: off	0005	Possible apparent symptoms: Combustion miss miss be extired	Breakdown notice:	Nime
								the combustion stroke in a particular cylinder is slower than the combustion strokes			Voltage condition: - Onboard electrical system withing between 9 V and 15						lamp: on - ECE electronic engine nover reduction: on				
								on the other cylinders. Potential problem source(s):	The diagnostic fault code is logged when a specific number of combustion miss		V Temperature condition: - None						- CC message: on			Breakdown notice: The engine reverts to its imp-home program,	
MEVD17.2-		Combustion misfiring, cylinder 2: Fuel injection	The diagnostic function monitors the duration of the combustion strokes and compares them with the remaining cylinders by assessing the rpm					Collateral fault logged, from problem with mixture formation, ignition system or	events are recognized within 200 crankshaft revolutions. The number depends on rpm		Time condition: - None Other conditions:				 Collateral fault logged, from problem with mixture formation, ignition system or 	- Because this is a secondary fault, start by	lamp: on - US electronic engine power reduction: on		Possible apparent symptoms:	continued vehicle operation is possible but drivability is restricted, because power is reduced the driver should refrain from passing	
BN2000 01	2EE7 12007	deactivation	signals (segment periods).	P0302	Cylinder 2 Misfire Detected	Mafre	0/12	the combustion stroke in a particular cylinder is slower	The diagnostic fault code is	note	- Engine ON Voltage condition: - Onboard electrical system	- None - None	NO	- None Y	 mechaniam.	repairing the primary faults	CC message: on lamp: on ECE electronic engine	none	- Reduced engine power	maneuvers.	None
								than the combustion strokes on the other cylinders.	logged when a specific number of combustion miss events, with their negative		voltage between 9 V and 15 V Temperature condition:						power reduction: on - CC message: on				
MEVD17.2-		Combustion milifino, cylinder 2 damaping	The diagnostic function monitors the duration of the combustion strokes and compares them with the remaining cylinders by assessing the rom					Collateral fault logged, from problem with mixture formation, ignition system or	emissions, are recognized within 1000 crankshaft revolutions. This must		Time condition: - None Other conditions:				 Collateral fault logged, from problem with miduae formation, lamiton avatem or 	- Because this is a secondary fault, start by	- US emissions warring lamp: off - US electronic engine power reduction: off		Possible accurrent symptoms:	Breakdown notice:	
BN2000 01	2558 12006	eshauat gas	signals (segment periods).	P0302	Cylinder 2 Mafire Detected	Mafre	Cyl 2	mechanical components the combustion stroke in a	proceed in 4 intervals.	none	- Engine CN Voltage condition:	- None - None	NO	- None Y	 mechanical componenta	repairing the primary faults	- CC message: none lamp: on	none	Combustion mas may be noticed.	None	None
								than the combustion strokes on the other cylinders.	logged when a specific number of combustion miss events, with their negative		voltage between 9 V and 15 V Temperature condition						power reduction: on - CC message: on				
			The diagnostic function monitors the duration of the combustion strokes and compares them with					Potential problem source(s) - Collateral fault logged, from problem with mixture	effects on exhaust emissions, are recognized during the first 1000		- None Time condition: - None				- Collateral fault logged, from problem with		- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 01	2559 12009	Combustion miafring, cylinder 2: damaging exhauat gas after start sequence	the remaining cylinders by assessing the rpm signals (segment periods).	P0302	Cylinder 2 Misfire Detected	Mafre	Cy42	formation, ignition system or mechanical components the combustion stroke in a	crankshaft revolutions following the start.	none	- Engine ON Voltage condition:	- None - None	NO	- None Y	 mixture formation, ignition system or mechanical components	Because this is a secondary fault, start by repairing the primary faults	reduction: off - CC message: none lamp: on	none	Possible apparent symptoms: Combustion miss may be noticed.	Breakdown notice: None	None
								particular cylinder is slower than the combustion strokes on the other cylinders.			- Onboard electrical system voltage between 9 V and 15 V						ECE electronic engine power reduction: on CC message: on				
			The diagnostic function monitors the duration of the combustion strates and complete them with					Potential problem source(s) - Defect in mixture formation - Defect in invition system	The diagnostic fault code is logged when a specific number of combustion miss		- None Time condition:				Defect in mixture formation Defect in involves		US emissions warning lamp: on			Breakdown notice: The engine reverts to bit imp-home program, continued vehicle operation is possible but disability is are addreted because reverse is	
MEVD17.2- BN2000 01	2EEA 12010	Combustion misfiring, cylinder 3: Fuel injection deactivation	the remaining cylinders by assessing the rpm signals (segment periods).	P0303	Cylinder 3 Miefre Detected	Matra	0/3	Mechanical defect Orfective DME	events are recognized within 200 crankshaft revolutions.	none	Other conditions: - Engine ON	- Nicres - Nicres	NO	- None Y	 - Mechanical defect - Defective DME	Because this is a secondary fault, start by repairing the primary faults	reduction: on - CC message, on James on	Dote	Possible apparent symptoms: - Reduced engine power	reduced the driver should refrain from passing manuscripts.	Norm
								particular cylinder is slower than the combustion strokes on the other cylinders.	The diagnostic fault code is logged when a specific		- Onboard electrical system voltage between 9 V and 15 V						ECE electronic engine power reduction: on - CC message: on				
			The diagnostic function monitors the duration of					Potential problem source(x) - Defect in mixture formation	number of combustion miss events, with their negative effects on exhaust		Temperature condition: - None Time condition:				- Defect in midure formation		- US emissions warning lamp: off				
MEVD17.2- BN2000 01	2EEB 12011	Combustion miafring, cylinder 3: damaging exhaust gas	the combuston strokes and compares them with the remaining cylinders by assessing the rpm signals (segment periods).	P0303	Cylinder 3 Mafre Detected	Mafre	C)(3	Defect in ignition system Mechanical defect Defective DME	eritasiona, are recognized within 1000 crankshaft revolutions.	none	- None Other conditions: - Ergine ON	- None - None	NO	- None Y	 - Defect in ignition system - Mechanical defect - Defective DME	Because this is a secondary fault, start by repairing the primary faults	- US electronic engine power reduction: off - CC message: none	none	Possible apparent symptoms: Combustion miss may be noticed.	Breakdown notice: None	None
								the combustion stroke in a particular cylinder is slower than the combustion strokes on the others or federa.	The diagnostic fault code is logged when a specific		Voltage condition: - Onboard electrical system voltage between 9 V and 15						ECE electronic engine power reduction: on				
			The disprostic function monitors the duration of					Potential problem source(s): - Defect in mixture formation	events, with their negative effects on exhaust emissions, are recorrized		Temperature condition: - None Time condition:				- Defect in midure formation		- US emissions warning				
MEVD17.2- BN2000 0x	ZEEC 12012	Combustion misfiring, cylinder 3: damaging exhaust gas after start sequence	the combustion strokes and compares them with the remaining cylinders by assessing the rpm signals (segment periods).	P0303	Cylinder 3 Mafire Detected	Mafre	0/13	Defect in ignition system Mechanical defect Defective DME	during the first 1000 crankshaft revolutions following the start.	none	- None Other conditions: - Ergine ON	- None - None	NO	- None Y	Defect in ignition system Mechanical defect Defective DME	- Because this is a secondary fault, start by repairing the primary faults	US electronic engine power reduction: off CC message: none	none	Possible apparent symptoms: Combustion miss may be noticed.	Breakdown notice: None	None
								the combustion stroke in a particular cylinder is slower than the combustion strokes			Voltage condition: - Onboard electrical system voltage between 9 V and 15						lamp: on - ECE electronic engine power reduction: on				
								on the other cylinders. Potential problem source(s):	The diagnostic fault code is logged when a specific number of combustion miss		V Temperature condition: - None						- CC message: on - US emissions warning			Breakdown notice: The engine reverts to its imp-home program,	
MEVD17.2- BN2000	2EED 12013	Combustion misfring, cylinder 4: Fuel injection desctivation	the combustion strokes and compares then with the remaining cylinders by assessing the rpm signals (segment periods).	P0304	Cylinder 4 Mafre Detected	Mafre	C)/4	formation, ignition system or mechaniam.	200 crankshaft recognized within 200 crankshaft revolutions. The number depends on rpm and load factor.	none	- None Other conditions: - Engine CN	- None - None	NO	- None	 Collateral fault logged, from problem with mixture formation, ignition system or mechanism.	- Because this is a secondary fault, start by repairing the primary faults	- US electronic engine power reduction: on - CC message: on	1006	Possible apparent symptoms: - Reduced engine power	drivability wettoe operation is possible but drivability is restricted, because power is reduced the driver should refrain from passing manusvers.	None
								the combustion stroke in a particular cylinder is slower than the combustion strokes	The diagnostic fault code is logged when a specific		Voltage condition: - Onboard electrical system voltage between 9 V and 5 ⁸						lamp: on - ECE electronic engine power reduction: on				
								on the other cylinders. Potential problem source(x):	number of combustion miss events, with their negative effects on exhaust		V Temperature condition: - None						- CC message: on - US emissions warning				
MEVD17.2-		Combustion misfiring, cylinder 4: damaging	I ne oxignostic function monitors the duration of the combustion strokes and compares them with the remaining cylinders by assessing the rpm simple (investigation).	in the second	Cullender & Mindee Pro-	Mala	~	Collateral fault logged, from problem with mixture formation, ignition system or markament or	emissions, are recognized within 1000 crankshaft revolutions. This must	_	Time condition: - None Other conditions: - Engine (Art)	Nime	NO	Non	Collateral fault logged, from problem with mixture formation, ignition system or machemistry.	- Because this is a secondary fault, start by	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	Norma
5-4400 [01		warman yan	g (Wignam par-008).	PULL	operate 4 manual defected			the combustion stroke in a particular cylinder is slower than the	The diagnostic fault code is		Voltage condition: - Onboard electrical system		1	Y		represented to a fermion of 186406	ECE electronic engine	19210	and a start of the	114.08	194.99
								on the other cylinders. Potential problem source/v/	number of combustion miss events, with their negative effects on exhaust		V Temperature condition: - None						- CC message: on				
MEVD17.2-		Combustion miafiring, cylinder 4: damaging	The diagnostic function monitors the duration of the combustion strokes and compares them with the remaining cylinders by assessing the rpm					Collateral fault logged, from problem with mixture formation, ignition system or	emissions, are recognized during the first 1000 crankshaft revolutions		Time condition: - None Other conditions:				- Collateral fault logged, from problem with mixture formation, ignition system or	- Because this is a secondary fault, start by	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000 01	2EF0 12016	exhauat gas after start sequence	signals (segment periods)	P0304	Cylinder 4 Mafrie Detected	Mafre	0//4	the combustion stroke in a particular cylinder is slower	following the start.	0016	- Engine CN Voltage condition: - Onboard electrical system	- None - None	NO	- None Y	 mechaniam.	repairing the primary faults	- CC message: none lamp: on - ECE electronic engine	Date	Combustion mass may be noticed.	None	None
								than the combustion strokes on the other cylinders.			voltage between 9 V and 15 V Temperature condition:						power reduction: on - CC message: on			Breakdown notice:	
MEVD17.2		Combustion minimum collector 6-Fisal intertion	The diagnostic function monitors the duration of the combustion strokes and compares them with the semicine ordinates by assession the rem.					Potential problem source(x) Defect in mixture formation Defect in ignition system Mechanical defect	The diagnostic fault code is logged when a specific number of combustion miss events are recommined within		- None Time condition: - None Other conditions				Defect in mixture formation Defect in ignition system Machanizational defect	. Receive this is a secondary facilit shaft by	US emissions warning lamp: on US electronic engine power sefurting: on		Broshie environt summary	The engine reverts to its imp-home program, continued wehicle operation is possible but drivability is restricted, because power is restricted the chicker should refrain form passion	
BN2000 0	2EF1 12017	deactivation	signals (segment periods).	P0305	Cylinder 5 Miafire Detected	Mafre	Cy15	- Defective DME the combustion stroke in a contraction stroke in a	200 crankahaft revolutions.	none	- Engine ON Voltage condition: Onbeautication:	- None - None	NO	- None Y	 - Defective DME	repairing the primary faults	- CC message: on lamp: on	none	Reduced engine power	maneuvers	None
								than the combustion strokes on the other cylinders.	The diagnostic fault code is logged when a specific number of combustion miss		voltage between 9 V and 15 V Temperature condition						power reduction: on - CC message: on				
			The diagnostic function monitors the duration of the combustion strokes and compares them with					Potential problem source(x) - Defect in mixture formation - Defect in ignition system	events, with their negative effects on exhaust emissions, are recognized		- None Time condition: - None				Defect in mixture formation Defect in ignition system		- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 01	2EF2 12018	combustion misfiring, cylinder 5: damaging exhaust gas	tne nemaining cylinders by assessing the rpm signals (segment periods).	P0305	Cylinder 5 Miafire Detected	Mafre	C)15	Mechanical defect Defective DME the combustion stroke in a	within 1000 crankahaft revolutions.	none	Other conditions: - Engine ON Voltage condition:	- None - None	ND	- None Y	 - Mechanical defect - Defective DME	 because this is a secondary fault, start by repairing the primary faults 	reduction: off - CC message: none lamp: on	none	Possible apparent symptoms: Combustion miss may be noticed.	Breakdown notice: None	None
								particular cylinder is slower than the combustion strokes on the other cylinders.	The diagnostic fault code is logged when a specific number of combustion miss		- Onboard electrical system voltage between 9 V and 15 V						ECE electronic engine power reduction: on - CC message: on				
			The diagnostic function monitors the duration of the combustion strokes and compower them with					Potential problem source(x) - Defect in mixture formation - Defect in ionition western	effects on exhaust emissions, are recognized during the first 1000		- None Time condition: - None				Defect in mixture formation Defect in ionition system		US emissions warning lamp: off US electronic engine noveen				
MEVD17.2- BN2000 01	2EF3 12019	Combustion misfiring, cylinder 5: damaging exhaust gas after start sequence	the remaining cylinders by assessing the rpm signals (segment periods).	P0305	Cylinder 5 Mafre Detected	Mafre	Cyt5	Mechanical defect Defective DME the combustion stroke in -	crankshaft revolutions following the start.	none	Other conditions: - Ergine ON Voltage condition:	- None - None	NO	- Nores Y	 - Mechanical defect - Defective DME	- Because this is a secondary fault, start by repairing the primary faults	reduction of - CC message: none lame: on	none	Possible apparent symptoms: Combustion miss may be noticed.	Breakdown notice: None	None
								particular cylinder is slower than the combustion strokes on the other cylinders.			- Onboard electrical system voltage between 9 V and 16 V						ECE electronic engine power reduction: on - CC message: on				
			The diagnostic function monitors the duration of					Potential problem source(x) Defect in mixture formation	The diagnostic fault code is logged when a specific		Temperature condition: - None Time condition: None				- Defect in mixture formation		- US emissions warning lamp: on			Breakdown notice: The engine reverts to its imp-home program, continued vehicle operation is possible but	
MEVD17.2- BN2000 01	2EF4 12020	Combustion misfring, cylinder 6: Fuel injection deactivation		P0306	Cylinder 6 Misfire Detected	Mafre	Cyt6	Letect in ignition system Mechanical defect Defective DME	number of combustion miss events are recognized within 200 crankshaft revolutions.	none	None Other conditions: Engine ON	- None - None	NO	- None Y	 - Lumez in ignition system - Mechanical defect - Defective DME	Because this is a secondary fault, start by repairing the primary faults	- us excronic engine power reduction: on - CC message: on	none	Possible apparent symptoms: - Reduced engine power	orvaceny is restricted, because power is reduced the driver should refinit from passing maneuvers.	None
								the combustion shoke in a particular cylinder is slower than the combustion strokes on the other cylinders	The diagnostic fault code is logged when a weetlin		Votage condition: - Onboard electrical system voltage between 9 V and 15 V						ECE electronic engine power reduction: on - CC message:				
			The diagnostic function monitors the duration of					Potential problem source(x) - Defect in mixture formation	number of combustion miss events, with their negative effects on exhaust		Temperature condition: - None Time condition:				- Defect in mixture formation		- US emissions warning lamp: off				
MEVD17.2- BN2000 01	2EF5 12021	Combustion miafiring, cylinder & damaging exhaunt gas	the combustion strokes and compares them with the remaining cylinders by assessing the rpm signals (segment periods).	P0306	Cylinder 5 Mafire Detected	Mafre	Cyt 6	Defect in ignition system Mechanical defect Defective DME	emissions, are recognized within 1000 crankahaft revolutions.	0016	- None Other conditions: - Engine ON	- None	NO	- None Y	Defect in ignition system Mechanical defect Defective DME	- Because this is a secondary fault, start by repairing the primary faults	US electronic engine power reduction: off CC message: none	Done	Possible apparent symptoms: Combustion miss may be noticed.	Breakdown notice: None	None

							the combustion stroke	na l	l by	follage condition:		1	1					lame: on				
							particular cylinder is all than the combustion all	ower The diagnostic fault code is rokes logged when a specific	-0	Onboard electrical system oltage between 9 V and 15								ECE electronic engine power reduction: on				
							on the other cylinder	rs. number of combustion miss events, with their negative	V Te	emperature condition:								- CC message: on				
			The diamostic function monitors the duration of				Potential problem source Defect in minime form	ce(s) effects on exhaust		None me condition						- Darlact in misture formation		- US emissions warning				
			the combustion shokes and compares them with				- Defect in ignition syst	tem during the first 1000	.,	None						- Defect in ignition system		- US electronic engine power				
BN2000 0	x2EF6 12022	exhaust gas after start sequence	the remaining cycloters by assessing the rpm signals (segment periods).	P0306	Cylinder 6 Mafre Detected	Miafre 0	- Mechanical devic - Defective DME	following the start.	none -t	Engine ON - 1	lione	- None NO	- None	Y		Defective DME	Decause this is a secondary fault, start by repairing the primary faults	- CC message: none	none	Combustion miss may be noticed.	Nore	None
BN2000 0	#2EFE 12030			P0300	Random/Multiple Cylinder Mafire Detected	Mafre M	lutiple															
BN2000 0	x2EFF 12031			P0301	Cylinder 1 Mafre Detected	Mafre C	D/1															
BN2000 I MEVD17.2-	k2F00 12032			P0302	Cylinder 2 Mafre Detected	Miafre C	D/12															
BN2000 MEVD17.2-	k2F01 12033			P0303	Cylinder 3 Miafre Detected	Mafre	2/13	_	+ +													
BN2000 MEVD17.2-	62702 12034			P0304	Cylinder 4 Mafre Detected	Madre C	D/4															
MEVD17.2-	200 12035			90305	Cylinder 5 Midne Detected	Marre		_	1 1													
- Martin	140.00			70.00	CITAL CITAL CARGES				w	olbage condition:								lamp: of				
									- C	oltage between 9 V and 15								- ECE electronic angles power reduction: off				
							the spark duration is	too	Ta	emperature condition								- CC message: none				
							short in all cylinders at o	once.	5	ime condition:								- US emissions warring lamp: on				
MEVD17.2-		Ignition circuit, supply voltage: Bank or engine	The diagnostic function simultaneously monitors				- Defect in central volt	age If the fault 7, then it is	0	ther conditions:								reduction: on	Ignition failure encompassing all cylinders, fault	Possible apparent symptoms:	Breakdown notice:	
UNLOU .	12100		The plant do plant in an option in							Light ON		- nam	1.5.4			- Canad an Canada Monage anggory	· Clinick points appry or general costs	- ECE emissions warning	Conclusion and an excitation of anotal - o ma			15.18
									1 1									- US emissions warning				
									0	oltage condition:								ECE electronic engine				
							The fault is recognized	when		emperature condition:								- US electronic engine power				
							Potential problem source	04(8)	0									- CC message: none				
BN2000	12101 hz	contribution too low	The diagnostic function monitors the ?				- 1	logged.	none 0	ener conditions: 0		o o	0	0		- 7	-7	No	0	Customer perception in prose at this juncture	Dreakdown Honce: 0	0
							a high number of inte knock events is detec	nse ted	-0	Onboard electrical system oltage between 9 V and 15								- ECE emissions warning lamp: off				
							upper end of the load ro	ange.	Te	emperature condition:								- ECE electronic angle power reduction: off				
							Potential problem source	ON(N)		imp, above 80 °C							N Res discovering for the order have been been	107 aminutana antenian				
			The domestic function around it is a barrier				switch during vehic	te The diagnostic fault code is		None						Misuse, terminal status switch during vehicle	once, clear the ECU faut memory	lamp: of				
MEVD17.2- BN2000	v2F76 12150	Surveyland kind of the second se	combustion knock by deactivating the injection at the 1st reductor	P1340	Knock Control Fuel Cut-Off due to Super Knocking Culleder 1		Temporary contaminal combustion chamber	tion in remains present for longer	-1	Engine on, in upper load - I	Ingine warmed to normal mercelulate more than 801C	None NO				Temporary contamination in combustion chamber or intake nessences	check the spark plug, injector and ignition coll on the cylinder	reduction: of	2228	Possible apparent symptoms: Engine runs poorly with power loss	Breakdown notice:	Niree
							a high number of inte	198		Onboard electrical system						and a cost product		- ECE emissions warning				
							during engine operation	in the	v	otage between 9 V and 16								- ECE electronic engine				
							Detected with the second			Engine warmed to normal								- CC message: none				
							- Mause, terminal sta switch during vehicre	the diagnostic fault code in		ime condition: None					L.	Misuse, terminal status switch during vehicle	 If the diagnostic fault code has been logged once, clear the ECU fault memory 	- US emissions warning lamp: off				
MEVD17.2			The diagnostic function responds to extreme combustion knock by deactivating the intection		Knock Control Fuel Cut-Off due to Super		operation - Temponity contaminat	logged when the fault tion in remains present for lowver		ther conditions: Engine on, in upper load	ingine warmed to normal		1			operation - Temporary contamination in combustive	- If the diagnostic fault code has been logged multiple times, check the injector and icrelium	- US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000	k2F77 12151	Super-knocking, cylinder 2: Injection switch-off	at the 2nd cylinder.	PIJA1	Knocking Cylinder 2		combustion chamber	ror than 1 min.	none na	enge te Onboard electrical surtice	mperature, more than 80°C	- None NO	none	Y		chamber or intake passages	coll at cylinder 2	CC message: none ECE eninement	none	Engine runs poorly with power loss	None	None
							 rign number of inte knock events is detection 	ted		olbage between 9 V and 15								lamp: off				
							upper end of the load ra	anga.	1	emperature condition: Engine warmed to normal								power reduction: off - CC message: none				
							Potential problem source - Misuse, terminal sta	ce(x) itza		imp, above 80 °C ime condition:							- If the diagnostic fault code has been lower	- US emissions warning				
			The diagnostic function responds to evineme				switch during vehic	te The diagnostic fault code is logged when the fer?*		None Wher conditions:						Mause, terminal status switch during vehicle operation	once, clear the ECU fault memory - If the fault has been looped multiple time-	lamp: off				
MEVD17.2- BN2000	k2F78 1215?	Super-knocking, cylinder 3: Injection switch-v#	combustion knock by deactivating the injection at the 3rd cylinder.	P13A2	Knock Control Fuel Cut-Off due to Super Knocking Cylinder 3		Temporary contaminat combustion chamber	tion in remains present for longer r or than 1 min.	1016 IN	Engine on, in upper load - I ange he	Ingine warmed to normal mperature, more than 80°C	- None NO	none			Temporary contamination in combustion chamber or intake passages	check the spark plug, injector and ignition coll on the cylinder	reduction: off - CC message: none	none	Possible apparent symptoms: Engine runs poorly with power loss	Breakdown notice: None	None
							a high number of inte	nse ted	-0	Onboard electrical system								- ECE emissions warning				
							during engine operation	in the	V T	emperature condition								ECE electronic engine rowar reduction: off				
							Potential problem source	04(04)		Engine warried to normal imp, above 80 °C								- CC message: none				
							- Misuse, terminal sta switch during vehic	than The diagnostic fault code is	n	ime condition: None						Misuse, terminal status switch during vehicle	 If the diagnostic fault code has been logged once, clear the ECU fault memory 	- US emissions warning lamp: off				
MEVD17.2-			The diagnostic function responds to extreme combustion knock by deactivating the injection		Knock Control Fuel Cut-Off due to Super		operation - Temporary contaminat	logged when the fault tion in remains present for longer	-1	Sher conditions: Engine on, in upper load - I	Ingine warmed to normal					operation - Temporary contamination in combustion	 If the diagnostic fault code has been logged multiple times, check the injector and ignition 	- US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000	k2F79 12153	Super-knocking, cylinder 4: Injection awtich-off	at the 4th cylinder.	PISAS	Knocking Cylinder 4		a high number of inte	ror than 1 min.		Onboard electrical system	mperature, more than 80°C	- None NO	none	Ŷ		chamber or intake passages	col at cylinder 4	- CC message: none - ECE emissions warning	none	Engine runs poorly with power loss	None	None
							knock events is detec during engine operation	ted in the	ve v	oltage between 9 V and 15								lamp: off - ECE electronic engine				
							upper end of the load n	inge.	-1	Engine warried to normal								- CC message: none				
							Potential problem source - Misuse, terminal sta	ce(x) itza	1	imp, above 80 °C lime condition:							- If the diagnostic fault code has been logged	- US emissions warning				
MEVD17.2			The diagnostic function responds to extreme combation knock by dearthysing the intertion		Kreek Control Faul Cut-Off due to Sumer		operation	logged when the fault	0	None Sher conditions: Ennine on in unner Inert	noine warmed to normal					operation	If the fault has been logged multiple times, therk the snark nion, injector and institution coll on	- US electronic engine power reduction: off		Drouble arranged symptoms	Breakringer poline-	
BN2000 0	x2F7A 12154	Super-knocking, cylinder 5: Injection switch-off	at the 5th cylinder.	P13A4	Knocking Cylinder 5		combustion chamber	ror than 1 min.	0016 08	enge te	reperature, more than 80°C	- None NO	none	Y		chamber or intake passages	the cylinder	- CC message: none	none	Engine runs poorly with power loss	None	None
							knock events is detec	nse Sed		oltage between 9 V and 15								- ECE emissions warring lamp: off				
							upper end of the load ra	ange.		emperature condition:								power reduction: off				
							Potential problem source - Mause, terminal sta	ce(x) Ita	5	imp, above 80 °C ime condition:							- If the diagnostic fault code has been looped	- US emissions warning				
			The diagnostic function responds to extreme				switch during vehicl operation	le The diagnostic fault code is logged when the fault	-1	None ther conditions:						Misuse, terminal status switch during vehicle operation	once, clear the ECU fault memory - If the fault has been logged multiple times,	lamp: off - US electronic engine power				
MEVD17.2- BN2000 0	x2F78 12155	Super-knocking, cylinder 6: Injection switch-off	combustion knock by deactivating the injection at the 6th cylinder.	P13A5	Knock Control Fuel Cut-Off due to Super Knocking Cylinder 6		Temporary contaminat combustion chamber	tion in remains present for longer r or than 1 min.	- t 0016 08	Engine on, in upper load - I enge te	Engine warmed to normal reperature, more than 80°C	- None NO	none	Y		Temporary contamination in combustion chamber or intake passages	check the spark plug, injector and ignition coll on the cylinder	reduction: off - CC message: none	none	Possible apparent symptoms: Engine runs poorly with power loss	Breakdown notice: None	None
							a high number of inte knock events is detec	nse ted	- 0	Onboard electrical system oltage between 9 V and 15								ECE emissions warning lamp: off				
							during engine operation upper end of the load ro	in the ange.	V Te	emperature condition:								 ECE electronic engine power reduction: off 				
							Potential problem source	CH(N)	-	Engine warmed to normal imp, above 80 °C								- CC message: none				
							- Misuse, terminal sta switch during vehic	itzs the diagnostic fault code is	n.,	ime condition: None						Mause, terminal status switch during vehicle	 If the diagnostic fault code has been logged once, clear the ECU fault memory 	- US emissions warning lamp: off				
MEVD17.2-			The diagnostic function responds to extreme		Knock Control Fuel Cut-Off due to Super		operation - Temporary contaminat	logged when the fault tion in remains present for longer	0	Engine on, in upper load - I	ingine warmed to normal					operation - Temporary contamination in combustion	 If the fault has been logged multiple times, check the spark plug, injector and ignition coll on 	- US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000 0	x2F7C 12156	Super knocking: Injection awatch-off	combustion knock by deactivating the injection.	P137F	Knocking	Knock Control System Super	Knocking combustion chamber	ror than 1 min.	- 0	onboard electrical system	reperature, more than 80°C	- None NO	none	Ŷ		chamber of inteke passages	the cylinder	- CC message: none - ECE emissions warning	none	Engine runs poorly with power loss	Nore	NEOR
									vo V	oltage between 9 V and 15								ECE electronic engine				
							The fault is recognized	when		emperature condition: None								- CC message: on				
							is outside the toleran	toe discussion for discussion in		the condition: 5 sec. after engine on These exectitions:								- US emissions warning				
MEVD17.2-		Ignition timing adjustment in idle, cold start	The diagnostic function monitors the ignition angle while the catalytic converter is being				Potential problem source	logged when the fault	-1	Ergine on and running at								- US electronic engine power reduction: off	US only, fault based on legislative requirement.	Possible apparent symptoms:	Breakdown rotice:	
BN2000	62F83 12163	Ignition timing too early	heated	P0508	Cold Start Ignition Timing Performance	Ignition Timing Col	id Start - Poor fuel quality	than 2 min.	none - C	Catalyst heating (always - I	Vone	- 5 sec. after engine on None	None	Y		- Poor fuel quality	- Replace fuel	- CC message: none	probably will never occur	- 1018	- 1008	- none
										oltage between 9 V and 15								- ELE emissions warring lamp: off				
							The fault is reconstruct	when		emperature condition:								power reduction: off				
							the ignition-angle adjust is outside the toleran	tment 108	n	ime condition: 5 sec. after engine on								- US emissions warning				
			The diagnostic function monitors the ignition				range.	The diagnostic fault code is logged when the fault	0	ther conditions: Engine on and running at								lamp: off - US electronic engine power				
MEVD17.2- BN2000	x2F84 12164	Ignition timing adjustment at partial load, cold start: Ignition timing too early	angle while the catalytic converter is being heated.	PISEA	Cold Start Ignition Timing Performance Off Idle	Ignition Timing Col	Id Start Potential problem source - Poor fuel quality	ce(x) remains present for longer than 2 min.	none - C	fle Catalyst heating (always - 1	lione	- 5 sec. after engine on None	None	Y		- Poor fael quality	- Replace fuel	reduction: off - CC message: none	US only, fault based on legislative requirement, probably will never occur	Possible apparent symptoms: - none	Breakdown notice: - none	- rone
							voltage is present at DME input (E_U_IG	the (N)	- C	oltage condition: Onboard electrical system												
							although the overloa protection relay for ign	ed- illion	vo V	oltage between 9 V and 15								- ECE emissions warning lamp: off				
							and injection has sweet	ched		None								power reduction: off				
							Potential problem source	08(8)	-	5 sec. after deactivation of						Wring harness between DME and overload-	- Inspect wining harness between overload-	107 aminutes antenias				
			supply wire providing voltage to the individual ignition colls from the overload-protection relay				DME and overload-prot relay for ignition and inju	ection This fault is logged in the	9	nition and injection ther conditions:		- 5 sec. after deactivation of				defective Defect in overload-protection relay for ignition	DME - Replace overload-protection relay for ignition	lamp: off - US electronic engine power				
MEVD17.2- BN2000 0	x2F8A 12170	Ignition, voltage supply: Short circuit to B+	for ignition and injection, checking for open wires and shorts to ground.				is defective - Defect in overload	control module's fault - memory immediately.	none 87	Shutdown phase (Terminal 7)	None .	overload-protection relay for ignition and injection NO	u	N		and injection - Defective DME	and injection - Replace DME	reduction: off - CC message: none	none	Possible apparent symptoms: None	Breakdown notice: None	None
							no voltage is present a DME input (E_U_)G	t the N)														
							although the overlos protection relay for ign	ition										EPE and an				
							and injection has switt on.			obage condition: Onboard electrical section								lamp: off - ECE glantonic contex				
							Potential problem source - Fuse defective	08(8)		olbage between 9 V and 15						- Fuse defective	- Check fuse	power reduction: off - CC message: none				
			The diagnostic function monitors the power-				Defect in wiring harm between overload-crole	ection	1	emperature condition: None						- Defect in wiring harness between overload- protection relay for ignition and injection, and	- Inspect wiring harness between overload- protection relay for ignition and injection, and	- US emissions warning				
			supply wire providing voltage to the individual ignition colls from the overload-protection relay				relay for ignition an injection, and DME	d E This fault is logged in the		ime condition: None						DME Defect in overload-protection relay for ignition	DME - Replace overload-protection relay for ignition	lamp: off - US electronic engine power				
MEVD17.2- BN2000 0	x2F88 12171	Ignition, voltage supply: Line disconnection or ahort circuit to earth	for ignition and injection, checking for open wines and shorts to ground.				- Defect in overload protection relay for ign	- control module's fault ition memory immediately.	Terminal 15	Ther conditions:	Sone	- None NO	u	N		and injection - Defective DME	and injection - Replace DME	reduction: off - CC message: none	none	Possible apparent symptoms: Non-starter	Breakdown notice: None	None
I I							the spark duration is be value stored in the pro-	now a gram		oltage condition:					Γ			- ECE emissions warning lamp: off				
							map.		-0	Onboard electrical system olage between 9 V and 15								ECE electronic engine power reduction: off				
							Potential problem sour	08(8)	Ta Ta	emperature condition:						- Defective count of	- Replace spark plug	- CC message: none			Breakdown notice:	
							Defect in wining harr betweet in wining harr	and The discoverie fact and		ime condition: None					-	- prevenue aparx prog Defect in wring harness between ignition coll and DMF	DME Chark institute - Chark institute - Chark	lamp: on - US electronic another end			cylinder is affected. The ignition miss detection should recognize the effected code of the standard of the st	
MEVD17.2- BN2000	x2FA8 12200	Combustion miss, cylinder 1: Spark duration too short	The diagnostic function monitors the spark duration.				DME - Defective ignition of	logged when the fault counter total is above 320.	r 00	ther conditions: Engine ON - 1	Sizme	- Nome NO	none	N		Defective ignition coll Defective DME	Replace DME if the fault code remains logged continuously	reduction: on - CC message: on	none	Possible apparent symptoms: Ignition miss and hard starting can occur.	deactivate the injection to protect the catalytic converter.	Norm
							the spark duration is be	elow a										- ECE emissions warning				
							mip.		-0	Onboard electrical system phase between 9 V and 15								ECE electronic engine rower reduction: off				
							Potential problem server	00003		emperature condition:							- Replace spark plug	- CC message: none			Breakdown notice:	
							Defective spark plu Defect in wining harm	-9 1453		None Ime condition:						- Defective spark plug Defect in wiring harness between ignition coll	- Check wiring harness between ignition coil and DME	- US emissions warning lamp: on			Continued driving possible if only the one cylinder is affected. The ignition miss detection	
MEVD17.2-		Combustion miss, cylinder 2: Spark duration too	The diagnostic function monitors the spark				between ignition coll DME	and The diagnostic fault code is logged when the fault counter	r -1	None ther conditions:						and DME - Defective ignition coll	Check ignition coll Replace DME if the fault code remains logged	- US electronic engine power reduction: on		Possible apparent symptoms:	should recognize the affected cylinder and deactivate the injection to protect the catalytic	
BN2000 0	sur A9 12201	shot	duration.		+ +		- Defective legition of the spark duration is be	ol total is above 320. Now a		Ergine ON - I	SCOR.	- None none	none	N		- Defective DME	continuously	CC message: on ECE emissions warning	none	ignition miss and hard starting can occur.	converter.	None
							value atored in the pro- map.	gsam	- C	oltage condition: Onboard electrical system								lamp: off - ECE electronic engine				
									1	oltage between 9 V and 15								power reduction: off - CC message: none				
							Potential problem sour - Defective spark plu	20 CHE(N)		emperature condition: None						- Defective spark plug	Replace spark plug Check wiring harness between ignition coil and	- US emissions warning			Breakdown notice: Continued driving possible if only the one	
MEND17.5		Combustion militian colordar 3. Proof. door	The discreastic function manines the second				- Defect in wiring harr between ignition col	and The diagnostic fault code is		www.concepon: None Wher.conditionw					1	and DME - Defective institute	DME - Check ignition coll - Replace DME if the fault code	- US electronic engine power		Possible arrowed survivor	cyanoer a amerced. The ignition miss detection should recognize the affected cylinder and deachade the injection in revolut the mission	
BN2000 0	25AA 12202	loo short	duration.		+		- Defective ignition of	ol total is above 320.	00 	Ergine ON -1	\$COR	- Norme NO	none	N		- Defective DME	continuously	- CC message: on	none	Ignition miss and hard starting can occur.	converter.	Nom
							value stored in the pro	gsam		oltage condition: Onboard electrical system								lamp: off - ECE electronic envine				
							reap.		8	olbage between 9 V and 15								power reduction: off - CC message: none				
							Potential problem sour - Defective spark of	ce(x): +g	Ta	emperature condition: None						- Defective spark plug	Replace spark plug Check wiring harness between ignition coll and	- US emissions warning			Breakdown notice: Continued driving possible if only the one	
							Defect in wiring ham between ignition col	and The diagnostic fault code is	1	ime condition: None					-	Defect in wring harness between ignition coll and DME	DME - Check ignition coll	lamp: on - US electronic engine power			cylinder is affected. The ignition miss detection should recognize the affected cylinder and	
MEVD17.2- BN2000 0	x2FAB 12203	Combustion miss, cylinder 4: Spark duration too short	The diagnostic function monitors the spark duration.				DME - Defective ignition of	logged when the fault counter total is above 320.	r 0000 - E	ther conditions: Engine ON - 1	SCO8	- None mone	none	N		Defective ignition col Defective DME	Replace DME if the fault code remains logged continuously	reduction: on - CC message: on	nate	Possible apparent symptoms: Ignition miss and hard starting can occur.	deactivate the injection to protect the catalytic convertier.	None
							the spark duration is be value stored in the pro	ilow a gram		follage condition:								- ECE emissions warning lamp: off				
							mip.		-0	Onboard electrical system olbage between 9 V and 15								- ECE electronic engine power reduction: off				
							Potential problem source	00(03)	2 V	emperature condition:							- Replace spark plug	- CC message: none			Breakdown notice:	
							Defective spark plu Defect in wiring harm	-9 Mass		None Ime condition:						- Defective spark plug Defect in wiring harness between ignition coll	- Check wiring harness between ignition coll and DME	- US emissions warning lamp: on			Continued driving possible if only the one cylinder is affected. The ignition miss detection	
MEVD17.2-		Combustion miss, cylinder 5: Spark duration too	The diagnostic function monitors the spark				between ignition col DME	and The diagnostic fault code is logged when the fault counter	,	None Sher conditions:						and DME - Defective ignition coll	Check ignition coll Replace DME if the fault code remains logged	- US electronic engine power reduction: on		Possible apparent symptoms:	should recognize the affected cylinder and deactivate the injection to protect the catalytic	
BN2000 0	xarAC 12204	shot.	duration.				- Defective ignition of	os total is above 320.	none - t	Ergine ON - I	VCDE	- NORS NO	none	N		- Defective DME	continuously	- CC message: on	none	gnition miss and hard starting can occur.	converter.	None

			1	1								1	-	1		1	1	· · · · · · · · · · · · · · · · · · ·	1
						the spark duration is below a value stored in the program map.			Voltage condition: - Onboard electrical system							ECE emissions warning lamp: off ECE electronic engine			
						Potential problem source/s/c			voltage between 9 V and 15 V Temperature condition:						- Replace spark plug	power reduction: off - CC message: none			Breakdown notice:
						Defective spark plug Defect in wiring harness			None Time condition:					Defective spark plug Defect in wiring harness between ignition coll	- Check wiring harness between ignition coil and DME	- US emissions warning lamp: on			Continued driving possible if only the one cylinder is affected. The ignition miss detector
MEVD17. BN2000	2- 0 0x2FAD 11	Combustion minifring, cylinder 6: Spark duration The diagnostic function monitors the spark 255 too short duration.				DME - Defective ignition col	The diagnostic fault code is logged when the fault counter total is above 320.	none	- None Other conditions: - Engine ON	- None - None	NO	none	N	- Defective ignition coll - Defective Ignition coll	Check ignition coll Replace DME if the fault code remains logged continuously	- US electronic engine power reduction: on - CC message: on	0006	Possible apparent symptoms: Ignition miss and hard starting can occur.	should recognize the affected cylinder and deactivate the injection to protect the catalytic converter.
						no crankshaft position sensor signal is detected,			- Onboard electrical system voltage between 9 V and 15							lamp: on - ECE electronic engine			
						although a signal from the camshaft position sensor is present.		1	V Temperature condition: - None							- CC message: on		Possible accorect symptoms:	
					,	Potential problem source(x)			Time condition: - None					Defect is widen between between PME and	Characterization between balances PMH and	- US emissions warning lamp: on	Fault leads to ATLCTLmax (FC Text LSL4: 7Boost-pressure control, deactivation: Boost- mesons association disabled?) EC (Dea New)	When the fault is logged the engine stalls at idle, at higher engine speeds a brief drop in rpm one to fell (1) is excelled to entire other.	Breakdown notice: The engine reverts to its emergency imp-hom
MEVD17. BN2000	0 0x2FDA 1	250 Crankshaft sensor, signal: missing The diagnostic function monitors the crankshaft sensor, 90335	Crankshaft Position Sensor W Circuit	Crankahaft Position Sensor	Electrical	setween DME and crankshaft sensor	No signal for carrshaft revolutions	none	- Terminal 50 (starter) or, - engine on, with engine	- None - None	NO	NO	N	crankahaft sensor - Crankahaft sensor defective	crankshaft sensor - Replace crankshaft sensor	reduction: on - CC message: on	L6: 1180580 / 0x120408; FC (Dec./Hex) L4: 11352 / 0x2C58)	the fault is present (starting takes longer), engine runs in Imp-home mode	possible, because power is reduced the drive should refrain from passing maneuvers.
						an interference factor affecting the crankshaft sensor simula is detected			Voltage condition:							- FCF amissions warring			
						Potential problem source(s)			voltage between 9 V and 15 V							lamp: on - ECE electronic engine			
					ь	- Derect in wring namess setween DME and crankshaft sensor			- None Time condition:					- Defect in wiring harness between DME and		- CC message: on		Possible apparent symptoms:	
						Oscillation in reluctor ring (for instance, when starter engages)			- None Other conditions: - Terminal 50 (starter) or.					crankshaft sensor - Oscillation in reluctor ring (for instance, when starter encacces)	Check wiring harness between DME and crankshaft sensor Inspect installation of crankshaft sensor	US emissions warning lamp: on US electronic engine power	Fault leads to ATLCTLmax (FC Text L6L4: 7Boost-pressure control, deactivation: Boost- pressure ceneration disabled?: FC (Dec./Hex)	When the fault is logged the engine stalls at idle, at higher engine speeds a brief drop in rpm can be felt / it is cossible to restart engine when	Breakdown notice: The engine reverts to its emergency imp-hom procesm. continued vehicle coeration is
MEVD17. BN2000	0.2FDB 1	251 Crankahaft sensor: Disturbed orankahaft signal The diagnostic function monitors the crankahaft sensor. P0336	Crankshaft Position Sensor 'A' Orcuit Range/Performance	Crankshaft Position Sensor	Plausibility	- Reluctor ring contaminated or defective	Malfunctions	none	- engine on, with engine speed > 500 rpm	- None - None	NO	NO	Y	Reluctor ring contaminated or defective Crankshaft sensor defective	Clean or replace reluctor ring Replace crankshaft sensor	reduction: on - CC message: on	L6: 1180580 / 0x120408; FC (Dec./Hex) L4: 11352 / 0x2C58)	the fault is present (starting takes longer), engine runs in imp-home mode	possible, because power is reduced the drive should refrain from passing maneuvers.
						the engine is synchronized using a secure initial position during starting (supply to										- ECE emissions warning			
						sensor was permanent - MSA)			Voltage condition: - Onboard electrical system withese between 9 V and 15							ECE electronic engine			
					'	Potential problem source(s) - Defect in wiring harness			V Temperature condition:					- Defect in wiring harness between DME and		- CC message: on			
					b	sensor sensor - Oscillation in reluctor ring	If the reference mark was incorrect by during the		- None Time condition: - None					- Oscillation in reluctor ring (for instance, when starter engages)	- Check wiring harness between DME and crankshaft sensor	US emissions warning lamp: off US electronic engine power			
MEVD17. BN2000	0 0x2FDD 1	The diagnostic function monitors the crankahaft Service and position: Implausible The diagnostic function monitors the crankahaft Service and the service and	Crankshaft Parking Position Implausible	Crankshaft	Parking Position	(for instance, when starter engages)	MSA automatic engine start/stop.	none	Other conditions: - Engine on with MSA start	- None - None	NO	NO	N	Defective relactor ring Crankshaft sensor defective	Inspect installation of crankshaft sensor Replace crankshaft sensor	reduction: off - CC message: on	note	Possible apparent symptoms: Extended starting times	Breakdown notice: None
						The fault is recognized when the engine is tunning over and no fault related to the			Voltage condition: - Onboard electrical system voltage between 9 V and 15							ECE electronic engine power reduction: on			
					°	rankahaft sensor is present. Potential problem source/s/c			V Temperature condition: - None							- CC message: on - US emissions warning	Fault leads to ATLCTLmax (FC Text LSL4:	Possible accorect symptoms:	Breakdown notice:
						- Defect in wiring harness between DME and camshaft	1 Camahaft rotates but no		Time condition: - None						- Check wiring harness between DME and	lamp: on - US electronic engine power	7Boost-pressure control, deactivation: Boost- pressure generation disabled?; FC (Dec./Hex)	Extended starting times and power loss, if it appears in combination with an exhaust	The engine reverts to its emergency imp-hom program, continued whicle operation is
BN2000	0 0x300C 12	200 Intake camphaft sensor: Signal high camphaft position sensor. P0343 P0343	1 or Single Sensor)	Carrahaft Position Sensor	Intake Electrical	sensor. The fault is recoordized when	reluctor	none	- Ergine ON Voltage condition:	- None - None	NO	NO	N	carrshaft position sensor or crankshaft sensor.	- Cerrahaft sensor defective	- CC message: on	11352 / 0x2C58)	possible	should refrain from passing maneuvers.
						the engine is turning over and no fault related to the			- Onboard electrical system voltage between 9 V and 15							- ECE electronic engine power reduction: on			
						Potential problem source(x)			v Temperature condition: - None							- US emissions warning	Fault leads to ATLCTLmax (FC Text L&L4:	Possible apparent symptoms:	Breakdown notice:
MEVD17	2	The diagnostic function monitors the intake	Camshaft Position Sensor 'X' Circuit Low (Bank		1	Jefect in wiring harness between DME and camshaft position sensor or crankshaft	1 Camshaft rotates but no signal from camshaft		rime condition: - None Other conditions:					- Defect in wring harness between DME and	- Check wiring harmess between DME and camshaft position sensor	lamp: on - US electronic engine power reduction: on	rabost-pressure control, deactivation: Boost- pressure generation disabled?; FC (Dec./Hex) L6: 1180580 / 0x120408; FC (Dec./Hex) L4:	extended starting times and power loss, if it appears in combination with an exhaust carrahaft sensor fault then no restart is	I ne engine reverts to its emergency imp-hom program, continued vehicle operation is possible, because power is reduced the drive
BN2000	0 0x300D 11	301 Intake carrahelt sensor: Signal low carrahelt position sensor. P0342	1 or Single Sensor)	Cernshaft Position Sensor	Intake Electrical	sensor. The fault is recognized when	reluctor	none	- Ergine ON Voltage condition:	- None - None	NO	NO	N	carrshaft position sensor or crankshaft sensor.	- Carrahaft sensor defective	- CC message: on lamp: on	11352 / 0x2C58)	possible	should refrain from passing maneuvers.
						the engine is tunning over and no fault related to the trankshaft sensor is present			- unboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: on CC message: on			
					- -	Potential problem source(x)			Temperature condition: - None Time condition							- US emissions warning	Fault leads to ATLCTLmax (FC Text LSL4: 7Boost-pressure revelved dearth-street floor	Possible proceed surviv	Breakdown notice:
MEVD17.	2	The diagnostic function monitors the exhaust	Camshaft Position Sensor 'B' Circuit High (Bank		2 P	between DME and camshaft position sensor or crankshaft	1 Camshaft rotates but no signal from camshaft		- None Other conditions					- Defect in wiring harness between DME and	- Check wiring harness between DME and carrshaft position sensor	- US electronic engine power reduction: on	pressure generation disabled?; FC (Dec/Hex) L6: 1180580 / 0x120408; FC (Dec/Hex) L4:	Extended starting times and power loss, if it appears in combination with an intake camshaft	program, continued whicle operation is program, continued whicle operation is possible, because power is reduced the drive
BN2000	u 0x300E 11	202 I cansul certahalt sensor. Signal high cantahalt position sensor. P0388	D	Carrahaft Position Sensor	Exhaust Electrical	sensor. The fault is recognized when the engine is turning over	reluctor	0016	- Engine ON Voltage condition: - Onboard electrical system	- None - None	NO	NO	N	a carrishaft position sensor or cranishaft sensor.	Camataft sensor defective	Imp: on - ECE electronic arreing	11352 / 0x2C55)	sensor fault then no restart is possible	should retrain from passing manazvers.
						and no fault related to the mankshaft sensor is present.			voltage between 9 V and 15 V							power reduction: on - CC message: on			
						Potential problem source(x) - Defect in wiring harness			-w-peneture condition: - None Time condition:							- US emissions warning lamp: on	Fault leads to ATLCTLmax (FC Text LSL4: 7Boost-pressure control, deactivation: Boost-	Possible apparent symptoms:	Breakdown notice: The engine reverts to its emergency Imp-hom
MEVD17.	2. 0+100 ⁴ .	203 Exhaust cambell senser: Sizeal by cambell realize senser events	Carrahaft Position Sensor 'B' Circuit Low (Bank	k Campbalt Division Norman	Exhaust Flanting	between DME and camshaft position sensor or crankshaft person	1 Carnshaft rotates but no signal from carnshaft pelority		- None Other conditions: - Ergine ON	Note	NO	NO	N	Defect in wring harness between DME and carshelt politice wares or carsheld man.	Check wining harness between DME and carrishelt position sensor Carrishelt sensor defection	US electronic engine power reduction: on - CC messare	pressure generation disabled?; FC (Dec./Hex) L6: 1180580 / 0x120408; FC (Dec./Hex) L4: 11942 / 0x22**	Extended starting times and power loss, if it appears in combination with an intake camshaft sensor fault then no restart is	program, continued vehicle operation is possible, because power is reduced the drive should retrain from maximum.
		United parts of the Public Pub				The fault is recognized when the camphaft sensor reluctor			Voltage condition: - Onboard electrical system	- NORB	175-d			A STREET PROVIDE AN AND A STREET BETROT.	CONTRACTOR OF THE OTHER	lamp: off - ECE electronic engine	10000100000000	CONTRACTOR OF CONTRACTOR OF CONTRACT	source of the state participation of the state of the sta
						rings run through the adaptation routine during initial start or following			voltage between 9 V and 15 V							power reduction: off - CC message: on			
						programming.			None Time condition:							- US emissions warning lamp: on	Fault leads to ATLCTLmax (FC Text L&L4: 7Boost-pressure control, deactivation: Boost-		Breakdown notice: The engine reverts to its emergency imp-hom
MEVD17. BN2000	.2- 0 0x3011 1:	The diagnostic functions the installation postion of the installation P13CA	'A' Carrahaft incorrect Assembly	Camahaft	Intake Incorrect Assembly	Potential problem source(x): Incorrect installation of intake camshaft	When assembly test is performed.	none	- None Other conditions: - Engine ON	- None - None	NO	NO	N	- Incorrect installation of intake carrshaft	 Install intake carrshaft correctly Adjust valve timing 	- US electronic engine power reduction: on - CC message: on	pressure generation disabled?; FC (Dec./Hex) L6: 1180580 / 0x120408; FC (Dec./Hex) L4: 11352 / 0x2C58)	Possible apparent symptoms: None	program, continued vehicle operation is possible, because power is reduced the drive should refrain from passing maneuvers.
					1	The fault is recognized when he camshaft sensor reluctor			Voltage condition: - Onboard electrical system							lamp: off - ECE electronic engine			
						rings run through the adaptation routine during initial start or following			voltage between 9 V and 15 V Temperature condition:							power reduction: off - CC message: none			
						programming.		-	- None Time condition:							- US emissions warning lamp: on	Fault leads to ATLCTLmax (FC Text LSL4: ?Boost-pressure control, deactivation: Boost- research and dealership (C Dea New)		Breakdown notice: The engine reverts to its emergency imp-hom
MEVD17. BN2000	0 0x3012 1	Exhaust carnshelt, mechanical: Assembly The diagnostic function monitors the installation 206 faulty position of the exhaust carnshelt. P13CB	18' Carrahaft Incorrect Assembly	Carrahat	Exhaust Incorrect Assembly	Incorrect installation of exhaust carrahaft	When assembly test is performed.	none	Other conditions: - Engine ON	- None - None	NO	NO	N	- incorrect installation of exhaust camehait	Install exhaust carrehaft correctly Adjust valve timing	reduction: on - CC message: on	L6: 1180580 / 0x120408; FC (Dec./Hex) L4: 11352 / 0x2C58)	Possible apparent symptoms: None	possible, because power is reduced the drive should refrain from passing maneuvers.
					1	The fault is recognized when the signal from the knock			Voltage condition: - Onboard electrical system without between 0 V and M							lamp: off - ECE electronic engine			
						measurement range.			V Temperature condition:							- CC message: none			
						Potential problem source(x) Signal-processing error, ncorrect measurement range	This fault is logged in the		- None Time condition: - None					- Signal-processing error, incorrect measurement range	If faults related to the knock sensors have been logged, repair these first Check wiring hamess between knock sensor	- US emissions warning lamp: on - US electronic engine power			
MEVD17. BN2000	0 0x303E 12	Knock control, fault check: Malfunction, system The diagnostic function monitors the quelity of fault the signals from the knock sensors. P0324	Knock/Combustion Vibration Control System Error	Knock Control System	General	Defective wiring hameas Knock sensor defective	control module's fault memory immediately.	none -	Other conditions: - Engine ON	- None - None	NO	none	Y	Defective wining harness Knock sensor defective	and DME - Replace knock sensor	reduction: on - CC message: on	none	Possible apparent symptoms: Engine runs poorly with power loss	Breakdown notice: None
									Voltage condition: - Onboard electrical system							ECE emissions warring lamp: off ECE electronic engine			
					e	The fault is logged in the ECU fault memory when the knock sensor's sized			voltage between 9 V and 15 V Terroration							power reduction: on - CC message: on MY111US			
						voltage is above 1 V.			- None Time condition:						- Check wiring hamess between knock sensor	- US emissions warning lamp: on			
MEVD17. BN2000	2- 0 0x303F 12	Knock sensor, electrical: Signal, input A, short The diagnostic function monitors the sensor wire for short circuits. P13AF	Knock Senaor 1 Circuit '# High (Bank 1)	Knock Sensor	Senacr 1	Defective witing harness Knock sensor defective	control module's fault memory immediately.	none	- None Other conditions: - Ergine ON	- None - None	NO	none	N	Defective wiring harmess Knock sensor defective	- Replace knock sensor - Replace DME	- US eactionic angine power reduction: on - CC message: on	none	Possible apparent symptoms: Possible reduction in power	Breakdown notice: None
									Voltage condition:							ECE emissions warning lamp: off ECE strategies service			
					e	The fault is logged in the ECU fault memory when the			- Undeard electrical system voltage between 9 V and 15 V							- ECE electronic engine power reduction: on - CC message: on			
						knock sensor's signal voltage is below -0.7 V.		-	Temperature condition: - None Time condition:						- Check wiring harness between knock sensor	MY11 US: - US emissions warning lamp: on			
MEVD17. BN2000	2-	Knock sensor, electrical: Signal, input A, short The diagnostic function monitors the sensor wire the sensor wire provide the meaner of the sensor wire provide the sensor wir	Knock Seman 1 Canal W Low (Bank 1)	Kond Semon	Senary 1	Potential problem source(s) - Defective wiring harness - Knock sensor defective	This fault is logged in the control module's fault memory immediately	-	- None Other conditions: - Engine ON	Ninne Ninne	NO		N	- Defective wiring harness	and DME - Replace knock sensor - Replace DMF	- US electronic engine power reduction: on	0076	Possible apparent symptoms: Drosible reduction in mean	Breakdown notice:
									Voltage condition:							- ECE emissions warning lamp: off			
						The fault is logged in the CU fault memory when the			- Onboard electrical system voltage between 9 V and 16 V							ECE electronic engine power reduction: on CC message: on			
						knock sensor's signal voltage is above 1 V.			Temperature condition: - None							MY11 US: - US emissions warning			
MEVD17.	2	Knock sensor, electrical: Signal, input B, short The diagnostic function monitors the sensor wire			1	Potential problem source(x) - Defective wiring harness	This fault is logged in the control module's fault		- None Other conditiona:					- Defective wiring harmess	and DME - Replace knock sensor	- US electronic engine power reduction: on		Possible apparent symptoms:	Breakdown notice:
BN2000	uk3041 1:	croan to pasteve for short circuits. P1389	Nnox berecr 1 Circuit 2' High (Bank 1)	Knock Sensor	Senaor 1	- whork sensor defective	memory immediately.	none	- Lighte UN	- none - None	NO	none	11	- Nnock sensor defective	- Replace DME	- ECE emissions warning lamo: off	Done	Possible reduction in power	None
						The fault is logged in the			Onboard electrical system voltage between 9 V and 15							- ECE electronic engine power reduction: on			
					E CONTRACTOR OF CONTRACTOR OFO	krock sensor's signal votage is below -0.7 V.			v Temperature condition: - None							- UC message: on MY11 US: - US emissions warning			
MEVD17	2	Knock sensor, electical: Signal, input B, short The diagnostic function monitors the sensor wire				Potential problem source(x) - Defective wiring harness	This fault is logged in the control module's fault		rime condition: - None Other conditions:					- Defective wiring harness	- uneck witing harness between knock sensor and DME - Replace knock sensor	lamp: on - US electronic engine power reduction: on		Possible apparent symptoms:	Breakdown notice:
BN2000	0 0x3042 1	354 decuit to ground for short circuits. P1388	Knock Sensor 1 Circuit 'B' Low (Bank 1)	Knock Sensor	Senaor 1	- Knock sensor defective	memory immediately.	none	- Ergine ON	- None - None	NO	none	N	- Knock sensor defective	- Replace DME	- CC message: on - ECE emissions warning	Date	Possible reduction in power	None
						The fault is logged in the			voisage condition: - Onboard electrical system voltage between 9 V and 15							lamp: off - ECE electronic engine power reduction: on			
					e	ECU fault memory when the knock sensor's signal voltage is above 1 V			V Temperature condition: - None							CC message: on MY11 US: US emissions warning			
-		Knock sames 7 alertics) Street level & short			,	Potential problem source(s)	This fault is logged in the		Time condition: - None					. Dadgastine uniden b	Check wiring hamess between knock sensor and DME Beyline heads a	lamp: on - US electronic engine power		Drashia annan anna	Banadadaman
BN2000	0 0x3043 12	255 circuit to positive P128/ P128/	Knock Serace 2 Circuit 'A' High (Bank 1)	Koock Sensor	Senacr 2	Knock sensor defective	memory immediately.	none	- Ergine ON	- Nicree - Nicree	NO	none	N	- Knock sensor defective	- Replace ARCK Service - Replace DME	- CC message: on - ECE emissions warning	note	Possible reduction in power	None
						The fault is lower in the			Voltage condition: - Onboard electrical system voltage between 9 V and 74							Lamp: off - ECE electronic engine power reduction: on			
					E	ECU fault memory when the krock sensor's signal			V Temperature condition:							- CC message: on MY11 US			
						vatage is below -0.7 V. Potential problem source(x)	This fault is logged in the		- nutrie Time condition: - None						Check witing harness between knock sensor and DME	- US emissions warning lamp: on - US electronic engine power			
MEVD17. BN2000	0 0x3044 1	Knock sensor 2, electrical: Signal, input A, short The diagnostic function monitors the sensor wire decat to ground for short circuits. P128E	Knock Sensor 2 Circuit 'A' Low (Bank 1)	Knock Sensor	Senacr 2	Defective wiring harness Knock sensor defective	control module's fault memory immediately.	none	Other conditions: - Engine ON	- None - None	NO	none	N	Defective wiring harness Knock sensor defective	Replace knock sensor Replace DME	reduction: on - CC message: on	note	Possible apparent symptoms: Possible reduction in power	Breakdown notice: None
									Voltage condition: - Onboard electrical system							ECE emissions warning lamp: off ECE electronic engine			
					e	The fault is logged in the ECU fault memory when the knock sensor's storal			voltage between 9 V and 15 V Temperature condition:							power reduction: on - CC message: on MY11 US:			
						voltage is above 1 V.	This fact in bosons		- None Time condition:						Check witing harness between knock sensor met mail	- US emissions warning lamp: on			
MEVD17. BN2000	0 0x3045 1	Knock sensor 2, electrical: Signal, input 8, ahort 257 circuit lo positive for short circuits. P13C8	Knock Senatr 2 Circuit '8' High (Bank 1)	Knock Sensor	Senacr 2	- Defective wiring harness - Knock sensor defective	control module's fault memory immediately.	none	Other conditions: - Engine ON	- None - None	NO	none	N	Defective wiring harness Knock sensor defective	and Live: - Replace knock sensor - Replace DME	reduction: on - CC message: on	none	Possible apparent symptoms: Possible reduction in power	Breakdown notice: None
	T								Voltage condition:							ECE emissions warning lamp: off ECE electronic emission			
					e	The fault is logged in the ECU fault memory when the			voltage between 9 V and 15 V							power reduction: on - CC message: on			
						<pre>krock sensor's signal votage is below -0.7 V.</pre>			-w-penature condition: - None Time condition:						- Check wiring hamess between knock sensor	MY11 US: - US emissions warning lamp: on			
MEVD17.	·2· 0 0x304* ·	Knock sensor 2, electrical: Signal, input B, short The diagnosis function monitors the sensor wire ciscuit to ground for short ciscuits. P11/77	Knock Sensor 2 Circuit '8' I new (Rank *)	Knock Semior	Sensor 2	Potential problem source(x) - Defective wiring harness - Knock sensor defective	This fault is logged in the control module's fault memory immediately	10716	- None Other conditions: - Engine ON	- None	ND	none	54	Defective wiring harmess Knock sensor defective	and DME - Replace knock sensor - Replace DM ^{at}	US electronic engine power reduction: on CC messary: ref	DODE	Possible apparent symptoms: Possible reduction in power	Breakdown notice: None
Lado		Fidel	the second of some (second)			The fact (- Onboard electrical system voltage between 9 V and 15	- 1678									
					E	Ine fault is logged in the ECU fault memory when the reference level is too high			v Temperature condition: - Engine warmed to normal							MY10 ECE: - ECE emissions warning lamp: off			
					· · · · · · · · · · · · · · · · · · ·	relative to the program map.			temp, above 80 °C Time condition: - None						- Check installation torque and installation	ECE electronic engine power reduction: on CC message: on			
	1				1	Potential problem source(x) - Knock sensor is defective or installed immediate			Other conditions: - Engine on					Krowk server is defeating	position of sensor - Check wiring harness	MY11 US: - US emissions warning			
			1			Engine too loud owing to mechanical defect	Pathanana and a start and a start and a start a		- gene apress above 1000 pm - Relative charge factor	- Engine warmed to normal		0:5438 0:5439		- Engine too loud owing to mechanical defect	crankshaft assembly) - Refuel with RON 55 or higher	- US electronic engine power reduction: on		Possible apparent symptoms:	Breakdown notice:
MEVD17.	3	Knock sensor, signal: Engine mechanically too The diagnostic function monitors the engine's	Knock/Combustion Vibration Sensor 1 Circuit			A contract of the statement of the	www.curce via event counter	none	apove 30%	temperature, more than 80°C - None	INO	10.000		a contraction of the statement of	Realizes based compare	CT manager on		1 Annual Contract of the Contr	
MEVD17. BN2000	.2. 0 0x3046 13	Poort wrois: uprat Explain Instantially Ioo The diagnostic function monitors the anglewit Iood ar XS availes Materica Installing) Ioo The diagnostic function monitors the anglewit P0328 P0328 P0328 P	Knock/Combustion Vibration Sensor 1 Circuit High (Bank 1 or Single Sensor)	Knock Sensor	Sensor 1	 Low-quality fael < RON 91 			- Onboard electrical system voltage between 9 V and 18			100015	18	- Low-quality fael < RON 91	- PROFESSION AND A	MY10 EC#	D208	Possible reduction in power	Norm
MEVD17. BN2000	(2. 0 0x3046 1)	Peod areas ayad Egya nacharadi yao The dagnado kucho morbin Ne anghala 20. Judie KS alabih Jenona kenalihiti. P328	Knock/Combustion Weration Sensor 1 Circuit High (Bank 1 or Single Sensor)	Koode Service	Sensor 1 -	The fault is logged in the			Onboard electrical system voltage between 9 V and 15 V Temperature condition: Engline agreement to			USED IE		- Low-quality had < RON 21	- Papara 2004 datas	MY10 ECE: - ECE emissions warning lamp: of	n name	Possible reduction in power	Norm
MEVD17. BN2000	2. 0 0x3046 12	Kook armon ayad Engan mahanaliyan The dagnata kecken morben Ne angkan Kook armon ayad Bullet All Annon Alexability	Knock/Combustion Version Sensor 1 Circuit High (Bank 1 or Single Sensor)	Koodi Sensor	Sensor 1 -	- Low-quality hall < RON 21 The fault is logged in the COU fault memory when the reference level is too low relative to the program map.			Onboard electrical system voltage between 9 V and 15 V Temperature conditor: Engine warmed to normal temp, above 80 °C Time condition:			1035 IE	in in in iteration is a second s	- Low-quality tost < RON 81	Check installation torque and installation	MY10 ECE: - ECE entasions warning lamp: off - ECE electronic engine power reduction: on - CC message: on	7578	Possible reduction in power	None
MEVD17. BN2000	12- 0 0x3948 13	Read amou digital Single-machine/article/article/ Mode 253 and exit Statebilis Milliona Amothinia Note:	KeckContuition Vehilon Senior 1 Circuit High Blank Lee Single Senior)	South Sensor	Sensor 1	Low-quality tell + RON 91 The fault is logged in the ECU fault memory when the inference level is too low relative to the program map. Potential carihiem e			Onboard electrical system voltage between 9 V and 15 V Temperature condition: - Engine warmed to normal htmp, above 80 °C Time condition: - None Other conditions: - Engine on			0-4437		- Low-southy And - RCM 31	Ourck installation torpus and installation position of senser Orack wing harmas Otack wing harmas	- Schmanger vir - ECE emissions winning large off - ECE electronic engine power reduction: on - CC message: on MY11 US: - US emissions warring large off	7578	Posible wardon in power	Nore

Breakdown notice:	
Continued driving possible if only the one nder is affected. The ignition miss detection should recognize the affected cylinder and	
activate the injection to protect the catalytic converter.	None
Breakdown notice: a engine reventa to its emergency into-home	
program, continued vehicle operation is sable, because power is reduced the driver should ratio from nassion memoryans	A terminal status switch must be conducted before this facilities to a facilities
and the restance of the second state of the second s	Delote this lade can be beliefd.
Breakdown notice: engine reverts to its emergency Imp-home program, continued vehicle operation is	
sable, because power is reduced the driver should refrain from passing maneuvers.	A terminal status switch must be conducted before this fault can be deleted.
Breakdown notice:	
742.0	PLAN .
Breakdown notice: a engine reverts to its emergency imp-home program, continued vehicle operation is	
ssible, because power is reduced the driver should refrain from passing maneuvers.	None
Breakdown notice:	
a engine reverts to its emergency imp-home program, continued vehicle operation is sable, because power is reduced the driver	
aroud rehain from passing maneuvera.	None
Breakdown notice: a engine reverts to its emergency imp-home	
suble, because power is reduced the driver should refuel from passing management.	Norm
Breakdown notice:	
e engine reverts to its emergency imp-home program, continued vehicle operation is within bacause mover is actured the driver	
should refrain from passing maneuvers.	None
Breakdown notice: e engine reverts to its emergency Imp-home	
program, continued vehicle operation is suble, because power is reduced the driver should retrain from pasaing maneuvers.	None
preakdown notice: e engine reverts to its emergency imp-home program, continued vehicle operation is	
sace, because power is reduced the driver should refrain from passing maneuvers.	None
Breakdown notice:	News
Nore	None
Breakdown notice: None	Norm
Breakdown notice: None	None
Breakdown notice: None	None
Breakdown notice: None	None
Breakdown notice	
None	Nore
Breakdown notice:	
None	Norm
Breakdown notice: None	None
	Thom:
Breakdown notice: None	None
Breakdown notice: Note	Norm
Breakdown notice	
None	Norm

											Onboard electrical system otage between 9 V and 15								
								The fault is logged in the ECU fault memory when the		V	empirature condition:					MY 10 ECE: - ECE emissions warning			
								reference level is too high relative to the program map.			Engine warmed to normal erro, above 80 °C					lamp: off - ECE electronic engine			
										1	Ime condition:				- Check installation torque and installation	power reduction: on - CC message: on			
								Potential problem source(x) - Knock sensor is defective		c	2her conditions: Engine on				position of sensor - Check wiring harmess	MY11 US: - US emissions warning			
								or installed incorrectly - Engine too loud owing to		-	Engine speed above 1600 pm	0.0	A37 A38	Knock sensor is defective or installed incorrectly	 Check engine for mechanical defects (chain, crankshaft assembly) 	lamp: on - US electronic engine power			
MEVD17.2- BN2000 0x304C	IC 12354 Knocl	ock sensor 2, signal: Engine mechanically too loud or KS outside tolerance (sensitivity)	The diagnostic function monitors the engine's noise level.	P1328	Knock/Combustion Vibration Sensor 2 Circuit High (Bank 1)	Knock Sensor	Sensor 2	mechanical defect - Low-quality fuel < RON 91	Debource via event counter	none a	Relative charge factor - Engine warmed to normal bove 30% temperature, more than 80°C - None	NO Del	A39 81E N	Engine too loud owing to mechanical defect Low-quality fuel < RON 91	Refuel with RON 55 or higher Replace knock sensor	reduction: on - CC message: on none	Possible apparent symptoms: Possible reduction in power	Breakdown notice: None	None
										-	Onboard electrical system oltage between 9 V and 15					MY10 ECE:			
								The fault is logged in the		V T	/ Temperature condition:					- ECE emissions warning lamp: off			
								ECU fault memory when the reference level is too low			Engine warried to normal errp, above 80 °C					- ECE electronic engine power reduction: on			
								relative to the program map.		1	Ime condition: None				Check installation torque and installation position of sensor	- CC message: on MY11 US:			
								Potential problem source(s)		-	Engine on	04	A37		Check engine for mechanical defects (chain,	- US emasors warring lamp: on			
MEVD17.2-	Kr	Knock sensor 2, signal: Electrical fault KS	The diagnostic function monitors the knock	01777	Knock/Combustion Vibration Sensor 2 Circuit	Kanada Kananan	Farma 7	or installed incorrectly	Colorado da constante da constante	π	- Engine warmed to normal	00	A39	incorrectly	Refuel with RON 55 or higher	reduction: on	Possible apparent symptoms:	Breakdown notice:	
0.000		Inclusion of the second second	ALL	F 1687	COR DAMES. 11	CODA JEURA	50004	the catalytic converter loses	ACCOUNT OF THE COURT	-	Onboard electrical system			- HEIR DECEMBER OF CARE	- 1000000 X 200 X 200 X	lamp: on	Pointer resource of point		
								levels of oxygen.		2	osage between 9 V and 16					- ELE electoric engine power reduction: on			
								Potential problem source(s)		-	Engine warned to normal				In faults research to the copyrin sensor or mixture adaptation have been logged, repair litered fast (adaptation)	- CC message: on			
								from defective oxygen sensor or mixture adaptation	This fault is logged in the	1	Ime condition: None	STEUERN_DKAT,		 Collateral fault stemming from defective oxygen sensor or mixture adaptation fault 	Check exhaust system for leaks If the fault is continuously present or has	lamp: off - US electronic engine power			
MEVD17.2- BN2000 0x3106	12550 Ci	Catalytic converter: Efficiency below limit	The diagnostic function monitors the ability of the catalytic converter to store oxygen.	P0420	Catalyst System Efficiency Below Threshold (Bank 1)	Catalyst	Efficiency	fault - Leak in exhaust system	control module's fault memory immediately.	none -i	Deer conditions: - Engine warmed to normal Engine ON temperature, more than 80°C - None	STEUERN_ENDE_DKAT, STATUS_DKAT no	w Y	Leak in exhaust system Catalytic converter defective	multiple log entries respond by replacing the catalytic converter	reduction: off - CC message: none none	Possible apparent symptoms: - none	Breakdown notice: - none	- 1004
								the driver circuit diagnostic function		v	Altage condition:					lamp: on			
								Potential problem source(s)		9 2	olage between 9 V and 16					power reduction: on - CC message: on			
								- Defect in wiring harness between DME and EVAP		5	femperature condition: None					- US emissions warning			
								evaporative emissions valve - Defect in evaporative	This fault is logged in the	1	lime condition: None			 Defect in wiring harness between DME and EVAP evaporative emissions valve 	Check wiring harness between evaporative emissions valve and DME	lamp: off - US electronic engine power			
MEVD17.2- BN2000 0x3155	12529 Tank	nk vent valve, activation: Short circuit to B+	The diagnostic function monitors the control wire to the EVAP valve for short circuits to positive.	P0459	Evaporative Emission System Purge Control Valve 'X' Circuit High	EVAP System	Valve	emissions valve - Defective DME	control module's fault memory immediately.	none -	2ther conditions: Engine ON - None - None	STEUERN_TEV. PV STEUERN_ENDE_TEV 0x	M activation signal, la77 N	Defect in evaporative emissions valve Defective DME	Replace EVAP evaporative emissions valve Replace DME	reduction: off - CC message: none none	Possible apparent symptoms: MIL on, customer proceeds to service facility	Breakdown notice: None	None
								the driver circuit diagnostic function.		v -	Albage condition: Onboard electrical system					lamp: on - ECE electronic engine			
								Potential problem source(x)		2	ollage between 9 V and 15 /					power reduction: on - CC message: on			
								Defect in wiring harness between DME and EVAP		-	Temperature condition: None					- US emissions warring			
								- Defect in evaporative	This fault is logged in the	1	Ime condition: None			Defect in wiring harness between DME and EVAP evaporative emissions valve	Check wining harness between evaporative emissions valve and DME	Lamp: off - US electronic engine power			
BN2000 0x3156	12630	earth	to the EVAP valve for short circuits to ground.	P0458	Valve 'X' Circuit Low	EVAP System	Valve	- Defective DME	memory immediately.	none -	Engine CN - None - None	STEUERN_ENDE_TEV Do	w activation signal, a77 N	Defective DME	Replace CVAP evaporative emissions varve Replace DME	- CC message: none none	MIL on, customer proceeds to service facility	None	None
								the driver circuit diagnostic function.		v 	/sitage condition: Onboard electrical system					Lamp: on - ECE electronic engine			
								Potential problem source(x)		22	oltage between 9 V and 15 /					- CC message: on			
								between DME and EVAP		-	None Internet Internet			- Defect in writer hamass half-one Plant or 1	- Check within harvess heleson	- US emissions wirning lamp: off			
MEVD17.2-			The diagnostic function monitors the overled wine		Evaporative Emission System Press Control			Defect in evaporative emissions veha	This fault is logged in the control module's fe-8	-	None 20er conditions:	STEUERN TEV	M activation signal,	EVAP evaporative emissions valve - Defect in evaporative emissions valve	emissions valve and DME - Replace EVAP evaporative emissions valve	- US electronic engine power reduction: off	Possible accorect sumstome-	Breakdown noir-e-	
BN2000 0x3157	57 12631 Tank	nk vent valve, activation: Line disconnection	to the EVAP valve for an open circuit.	P0444	Valve 'A' Circuit Open	EVAP System	Valve	- Defective DME	memory immediately.	none -	Engine CN - None - None	STEUERN_ENDE_TEV 0x	a77 N	- Defective DME	- Replace DME	- CC message: none none	MIL on, customer proceeds to service facility	None	None
								consumed by the leakage diagnosis overn		-	Onboard electrical system Onlage between S V and 15					- ECE electronic engine power reduction: on			
								Potential problem secondar's		v v	/ remperature condition:					- CC message: on			
								- EVAP evaporative emissions valve seizes in			None Inve condition:					- US emissions warring lamp: off			
MEVD17.2-			The diagnostic function monitors the flow		Evaporative Emission System Vent Valve			closed position - Obstruction in path between intake	This fault is logged in the control module's fault	-	None 2her conditions:	START_SYSTEMCHECK_TE		EVAP evaporative emissions valve seizes in closed position - Obstruction in path between	Replace EVAP evaporative emissions valve Check flow in lines between intake manifold	- US electronic engine power reduction: off	Possible apparent symptoms:	Breakdown notice:	
BN2000 0x315A	SA 12634	Fuel tank vent valve: jammed open	through the fael tank's EVAP vent line.	P2421	Stuck Open	EVAP System	Value	manifold and tank The fault is recognized when	memory immediately.	note -	none - None - None	V na	N N	intake manifold and tank	and tank	CC message: none new for I-11-03-300	None	None	None
								the diagnostic fault code for the sensor is logged on the							- If diagnostic fault code 'LIN bus				
								PT CAN (OBD services message) from the TFE1							communications: signal missing' (InmLINBusBik; 0x3897) is logged, start by				
								electronic functions).							repairing this process, then clear the ECU fault memory, switch on the ignition, then wait at least 1 minute before characters to determine				
								Potential problem source(s) - Global LIN bus feed 1 IP			Analege condition:				whether the fault has been logged again - Check pump plup (also for connection)	- ECE emissions warning lamp: on			
								bus communications: signal missing' (InmLINBusBik:		-	Onboard electrical system ofboar between 9 V and 15			- Global LIN bus fault 'LIN bus communications:	Check power-supply voltage to Terminal 30 / Terminal 31	ECE electronic engine power reduction: on			
								0x3897) - Defective fuse		V	empirature condition:			signal missing' (InmLINBusBik; 0x3897) - Defective fuse	- If no voltage is present, check the fuse - If the fuse is defective, replace it and check	- CC message: on			
								- Defect in the LIN bus wire, ground wire or Terminal 30	This fault is logged in the	÷	None Ime condition:			 Defect in the LIN bus wire, ground wire or Terminal 30 wire (open wire, short to ground, 	power supply for short and open circuits - Check the LIN wire for opens and shorts to	- US emissions warning lamp: off			
MEVD17.2-	Tan	ink safety valve shut-off valve, activation:	The diagnostic function monitors electrical		Evaporative Emission System Shutoff Valve 2			wire (open wire, short to ground, short to UBatt)	ECU fault memory if it remains present for longer	d	None Dher conditions:			short to UBatt) - Contasion on plug	Utlatt and ground - Perform tester job, if not successful: Replace	- US electronic engine power reduction: off	Possible apparent symptoms:	Breakdown notice:	
842000 003160	12540	Short citule to B+	activation of the tank cutoff valve.	P1496	Control Circuit high	EVAP System	Shater Valve 2	the diagnostic fault code for	than 40 sec.	V	rone - None - None /oltage condition:	NU NO	s N	chectric water pump component taux	Every electric water pump	Lamp: on	MiL COMIES ON	NOR	None
								the sensor is logged on the PT CAN (OBD services		-	Onboard electrical system obage between 9 V and 16					ECE electronic engine power reduction: on			
								ECU (ECU for tank		2	femperature condition:					- LC message: on			
								Potential problem source(s);	This fault is logged in the	1	Ime condition: None				- Check wiring harness at TFE1 ECU and tank	lamp: off - US electronic engine power			
MEVD17.2- BN2000 0x3161	51 12541 Tani	ink safety valve shut-off valve, activation: Short circuit to earth	The diagnostic function monitors electrical activation of the tank cutoff valve.	P1408	Evaporative Emission System Shutoff Valve 2 Control Circuit Low	EVAP System	Shutoff Valve 2	Defective wiring harness Tank cutoff valve	control module's fault memory immediately.	C Terminal 15	Dher conditions: none - None - None	NO no	ne N	Defective wiring harness Tank cutoff valve defective	cutoff valve - Replace tank cutoff valve	reduction off - CC message: none none	Possible apparent symptoms: MIL comes on	Breakdown notice: None	None
								the diagnostic fault code for the sensor is logged on the		V	Altage condition: Onboard electrical system					Lamp: on - ECE electronic engine			
								PT CAN (OBD services message) from the TFE1		9 2	olage between 9 V and 15					power reduction: on - CC message: on			
								ECU (ECU for tank electronic functions).		3	femperature condition: None					- US emissions warning			
								Potential problem source(x)	This fault is logged in the	1	Ime condition: None				- Check wiring harness at TFE1 ECU and tank	Lamp: off - US electronic engine power			
MEVD17.2- BN2000 0x3162	12 12642	Line disconnection	The diagnostic function monitors electrical activation of the tank cutoff valve.	P140A	Evaporative Emission System Shutoff Valve 2 Control Circuit	EVAP System	Shutoff Valve 2	Defective wing harness Tank cutoff valve	control module's fault memory immediately.	Terminal 15	Iber conditions: none - None - None	NO no	ne N	Defective wining harness Tank cutoff valve defective	cutoff valve - Replace tank cutoff valve	- CC message: none none	Possible apparent symptoms: ML comes on	Breakdown notice: None	None
																lamp: on - ECE electronic engine			
										v	Analese condition:					- CC message: on			
										1	femperature condition:					- US emissions warning			
MEVD17.2		fank safety value shot off value: iseverari			Evanyative Emission System Study Value 2			Potential central arcana(a)	If the fault 2, then it is	7	lime condition:					- US electronic engine power reduction: off	currently in Drasible environt summinum-		
BN2000 0x3163	12543	open		P149D	Stuck Off	EVAP System	Shutoff Valve 2	- none	logged.	none C	2ther conditions:	- N	cne	- None	- None	- CC message: none preparation.	Customer perception in prose at this juncture	Breakdown notice:	
																Eamp: on - ECE electronic engine			
								The fault is removined when		v	foltage condition:					- CC message: on			
								7		1	femperature condition:					- US emissions warning			
MEVD17.2-								Potential problem source(x) - 7	If the fault 7, then it is	1	Time condition:			.7	-7	US electronic engine power reduction: off new for I-10-03-450, diagnosis is	currently in Possible apparent symptoms:		
BN2000 0x3164	12544	Tank safety value: mathanction	Open	P0440	Evaporative Emission System	EVAP System	Flow Check	there is no drop in the current	logged.	none C	War, conditions.	- N	cne	.7	-7	- CC message: none preparation.	Customer perception in prose at this juncture	Breakdown notice:	
								consumed by the leakage discresis pump.		*	olage between 9 V and 16					ECE electronic engine power reduction: on			
								Potential problem source(s)		1	empirature condition: Engine warmed to normal					- CC message: on			
								- Tank EVAP evaporative emissions valve sticks in		1	emp, above 80 °C fime condition:			- Tank evaporative emissions valve seizes in		- US emissions warning lamp: off			
MEVD17.2-			The diagnostic function monitors the flow					- Obstruction in line between	The diagnostic fault code is logged once the fault	-	None Zher conditions: - Engine warmed to normal	START_SYSTEMCHECK_TE		closed position - Obstruction in line between tank and intake	Replace EVAP evaporative emissions valve Check flow in line between intake manifold and	- US electronic engine power reduction: off	Possible apparent symptoms:	Breakdown notice:	
BN2000 0x3165	35 12545	Tank safety valve: malfunction	through the fuel tank's EVAP vent line.	P0440	Evaporative Emission System	EVAP System	Flow Check	tank and intake manifold	appears four times.	none -	Engine ON temperature, more than 80°C - None /oltage condition:	V no	N N	manifold	tank and replace as indicated	- CC message: none Data content defined lamp: off	Nore	None	None
								The fault is recognized when the output signal from the		-	Onboard electrical system oltage between 9 V and 15					- ECE electronic engine power reduction: off			
								tank fuel-level sensor exceeds a specified level.		V T	/ Temperature condition:					- CC message: none			
			I ne diagnostic function monitors the tank fuel- level sensor for a valid output signal within					Potential problem source(s)	The diagnostic fault code is	-	None Inve condition:					- us emissions warning lamp: off			Mark the Well To
MEVD17.2-	Fuel	el level sensor, right, signal: Short circuit to	eyecned errors. The fault is first stored in the junction box electronics and then relayed to the DAME	(Prode	Final Lanat Processor No. 11	Front I want Manage	E-mailed	- Upen electrical circuit to fuel-level sensor on right (incluse feature)	remains present for longer	- c	The conditions:	Yes + JEBFE raw values for tech find local		Open electrical circuit to fuel-level sensor on right //white here	- Read out and work through diagnostic fault	- cos evectorios engine power reduction: off	Possible apparent symptoms: Possible problem with fuel gauge display in I-	Breakdown notice:	entry of a fault code, with the DME the engine
		u+	Line.	Farm		. La Leve Jend?	LINUTER	The first is	count of mann	v v	Analogie condition:	100 Million (100		- good (second second second		lamp: of			
								the output signal from the bank fuel-level services in		-	ollage between 9 V and 15					power reduction: off - CC message: none			
			The diagnostic function monitors the tank fuel-					below a specified level.		1	femperature condition: None					- US emissions warning			
			level sensor for a valid output signal within specified limits. The fault is first stored in the					Potential problem source(s) - Open electrical circuit to	The diagnostic fault code is logged when the fault	1	line condition: None					lamp: off - US electronic engine power	Possible apparent symptoms:		With the JPE Terminal 15 is adequate to trigger
MEVD17.2- BN2000 0x3184	94 12576 ^{Fuel}	exerce sevel sensor, right, signal: Short circuit to earth	junction box electronics and then relayed to the DME.	P2067	Fuel Level Sensor 'B' Circuit Low	Fuel Level Sensor	Electrical	fuel-level sensor on right (looking toward front)	remains present for longer than 3 min.	none -	Amer conditions: Engine CN - None - None	Yes + JBBFE raw values for tank fuel level no	N N	Open electrical circuit to fuel-level sensor on right (looking toward front)	 read out and work through diagnostic fault codes in instrument cluster and in junction box 	reduction: off - CC message: nonenone	Possible problem with fuel gauge display in I- cluster	Breakdown notice: None	entry of a fault code, with the DME the engine must also be running.
								the right-side fuel-level sensor transmits correct		v -	Antage condition: Ontoserd electrical system					lamp: off - ECE electronic engine			
								level is too high to be		v V	orange uniWell V V and 16					- CC message: none			
			The diagnostic function monitors the message					paszeole. Potential problem several/**	The diagnostic fault over in	1	None Internet Internet					- US emissions warning lamp: off		Breakdown noir-e-	
MEVD17.2-		fuel level sensor, right, signal: CAN value	on the CAN bus to assess the plausibility of the fuel level indicated by the right-side fuel-level					Problem with CAN communications between	logged when the fault remains present for longer		None Diter conditions:			- Problem with CAN communications between	- Read out and work through diagnostic fau®	- US electronic engine power reduction: off	Possible apparent symptoms: Possible problem with fuel cauce display in I-	Tank may be empty. Please refuel using fuel canister and proceed to nearest service station	
BN2000 0x3185	12677	implausible	sensor.	P1408	Fuel Level Signal 2	Fuel Level Sensor	Signal	Instrument cluster, junction	than 3 min.	Terminal 15	none - None - None	NO no	NB Y	instrument cluster, junction box and DME	codes in instrument cluster and in junction box	- CC message: none none none	cluster	Then proceed to BMW Service facility.	None
								the output signal from the tank fuel-level sensor			Onboard electrical system oflage between 9 V and 15					- ECE electronic engine power reduction: off			
								exceeds a specified level.		2 2	Perpendure condition:					- CC message: none			
			The diagnostic function monitors the tank fuel- level sensor for a valid output signal within					Potential problem source(s) - Defective wiring harness	This fault is logged in the	1	None Ime condition:					- US emissions warning lamp: off			
MEVD17.2-			specified limits. The fault is first stored in the junction box electronics and then relayed to the					- Tank fuel-level sensor on left (looking toward front) is	ECU fault memory if it remains present for longer	d	None Dher coditions:	Yes + JBBFE raw values for		Defective wiring harness Tank fuel-level sensor on left (looking toward	- Read out and work through diagnostic fault	- US electronic engine power reduction: of	Possible apparent symptoms: Possible problem with fuel gauge display in I-	Breakdown notice:	With the JPE Terminal 15 is adequate to trigger entry of a fault code, with the DME the engine
BN2000 0x3187	ar 12679 Fuel I	n www.aenaor.left.aignal: Short circuit to B+	DME.	P0463	Fuel Level Sensor W Circuit High	Puel Level Senacr	Electrical	The fault is recognized when	than 3 sec.	none -	Engine Lev I-None -None -None -None	tank has level ro	m IN	front) is defective	copes in instrument cluster and in junction box	Lamp: off	cluster	None	must also be running.
								the output signal from the tank fuel-level sensor is		- W	Onboard electrical system obage between 9 V and 15					ECE electronic engine power reduction: off			
			The damage of the later of the					below a specified level.		V T	emperature condition:					- uC message: none			
			 a cagnosic nunction monitors the bank fuel- level sensor for a valid output signal within specified limits. The fault is first strengt in the 					- osensal problem source(s) - Defective wiring harness - Tank fapilleval servers of	The diagnostic fault code is located when the f/f	-	Ine conditon:			- Defective winters increase		- us emasors warring lamp: off - US electoric engine preserv	Drouble arranged complete		With the JPE Terminal 15 is referente to
MEVD17.2- BN2000	5 12550 Fue	uel level sensor, left, signal: Short circuit to	junction box electronics and then relayed to the DAM	80467	Fael Level Service W.Consist and	Figel Lanasi Sarra	Flactrical	left (looking toward front) is platering	remains present for longer than 3 min	- C	Ther conditions:	Yes + JEBFE new values for tark had level		- Swhechwe wrining namesis - Tank fuel-level sensor on left (looking toward finet) is defection	- Read out and work through diagnostic fault codes in instrument closely and in burning to	reduction: off	- coasce apparent symptoms: Possible problem with fuel gauge display in I- cluster	Breakdown notice:	entry of a fault code, with the DME the engine myst also be re-
				FUTUR	COLOR OF STREET & GROLE LOW	n Level Jen dCf	LANDER	the left-side fuel-level sensor	2 age 1 of 1980.	v v	Anitage condition:	100 Note mile 100		interny in connective	A COMPANY AND IN JUNCTION DOX	lamp: of			
								variants conect data, but the processed fuel level is too high in he re-white		-	concern electrical system citizge between 5 V and 15					- CC electronic engine power reduction: off - CC message: none			
								Potential problem source(>)		1	Temperature condition: None					- US emissions warning			
			The diagnostic function monitors the message on the CAN bus to assess the plausibility of the					Problem with CAN communications between	The diagnostic fault code is logged when the fault	T	line condition: None					lamp: off - US electronic engine power	Possible apparent symptoms:	Breakdown notice: Tank may be empty. Please refuel using fuel	
MEVD17.2- BN2000 0x318A	5A 12582	Fuel level sensor, left, signal: CAN value implausible	fuel level indicated by the left-side fuel-level sensor.	P1407	Fuel Level Signal 1	Fuel Level Seraor	Signal	instrument cluster, junction box and DME	remains present for longer than 3 min.	C Terminal 15	ther conditions: none - None - None	no CM	м <u>ү</u>	Problem with CAN communications between instrument cluster, junction box and DME	Read out and work through diagnostic fault codes in instrument cluster and in junction box	reduction: off - CC message: none none	Possible problem with fuel gauge display in I- cluster	canister and proceed to nearest service station. Then proceed to BMW Service facility.	None
								the tank content that the DME calculates from the		-	Onboard electrical system ollage between 9 V and 15								
								rejection signal deviates too starkly from the actual		V T	Ferrperature condition:								
								the instrument cluster.		1	Ime condition: None					- ECE emissions warning lamp: off			
								Potential problem source(s) - Fuel level sensor stickinn		d	Sher conditions: Engine on					- ECE electronic engine power reduction: off			
								Fuel level sensor mechanically damaged			No fault related to tank fael- evel sensor is currently					- CC message: none			
			The diagnostic function monitors the drop in the					- Float on fuel level sensor is damaged	The diagnostic fault code is logged the first time (pending	P	resent At least 20 liters of fuel			Fuel level sensor sticking Fuel level sensor mechanically damaged		- US emissions warning lamp: off	Possible apparent symptoms:	Breakdown notice:	
MEVD17.2-		Fuel level sensor: Deviation between	senc's fuel level and compares it to the quantity of fuel injected into the engine during the same		Real Local (Barrison and Control of Control			Prequent refueling with quantities of less than 5	ruj and then confirmed the second time (confirmed fault		nux ce consumed without efaciling (multiple cycles		_	Float on fuel level sensor is damaged Frequent refueing with quantities of less than	- Read out instrument cluster ECU fault	- US electronic engine power reduction: off	 Fuel gauge fails to read full after refueling. Tank is empty although gauge indicates that 	Tank may be empty. Please refuel using fuel canister and proceed to nearest service station.	
process 0 0x318D	14985	witeumpeon and till-level change	period.	≥:448	- sel Level / Fuel Consumption Correlation	rom Level	Lonelation	www.ix (als with nental vehicles)	0008).	none p	Analise Condition:	nu no	- Y	 contra (as with rental vehicles) 	mentory and work strough logged faults	lamp: of	tuel is abli present.	inen proceeo to pMW Service facility.	NOR
1	1 1							The fault is recognized when		- v	Onboard electrical system ollage between 9 V and 15					ECE electronic engine power reduction: off CC measure and			
								a short circuit is present between the DME and the		V T	Femperature condition:			1	Charle and the home of	- uC message: none		1	1
								gjundala fira'			None		1		- Chark electric for investig	- US emissions werein-			
								electric fan.	This fault is lower in the	1	None Inne condition:	Yes + STRUEDN F LINETER			Check wring names Check electric fan (specifiel resistance between PVM pin and Terminal 30 pin with electric fan plug direvenanted context fine fine	- US emissions warning lamp: off - US electoral: engine preserve	Prosible arranged and	Presidentean explore	
MEVD17.2- BN2000 0x2167	17 12775 E	Bechic fan aduation: Short circuit to Be	The diagnostic function monitors the wine between the electric (an and the DME	P0552	Fan 1 Central Circuit High	Cooling System	Fan 1	electric fan. Potential problem source(x) - Defective wiring harness - Electric fan defective	This fault is logged in the control module's fault memory immediately.	- T - C	None Insection: Insecondition: None conditions: Encine CN - None - None	Yes + STEUERN_E_LUEFTER, STEUERN_ENDE_E_LUEFT ER.STATUS E_LUEFTER	M activation signal	Defect in wring harness Electric fan defective	Check electric fan (peoffled resistance between PWM pin and Terminal 30 pin with electric fan plug discorrencted; greater than 10 ohma) Peolace electric fan	US emissions warring lamp: off US electonic engine power reduction: off An inoperative electric fan can alle CC message: none enzine to gwerheat.	Possible apparent symptoms: > cause the Engine can overheat, breakdown is extreme cales.	Breakdown notice: Phobably not possible to activate electric fan, continued driving al reduced power cossible.	none

						The fault is recoonized when			Voltage condition: - Onboard electrical system voltage between 9 V and 15							lamp: off - ECE electronic engine power reduction: off				
						a short circuit is present between the DME and the			V Temperature condition:						Check wiring harmess Check electric fan cutoff relay	- CC message: none				
						electric fan.	The diagnostic fault code is involved when the fault		- None Time condition:		Yes *	FRN F LIFFTFR			Check electric fan (specified resistance between PWM pin and Terminal 30 pin with electric fan nium disconnected, meater than 10	US emissions warning lamp: off US electronic envire reser		Drophic array of summary	Breakrinen online:	
MEVD17.2- BN2000 0x31E8 12776 Electric fan, actuation: Short circuit to earth	The diagnostic function monitors the wire between the electric fan and the DME.	P0891	Fan 1 Control Circuit Low	Cooling System	Fan 1	- Defective wiring harness - Electric fan defective	remains present for longer than 1 min.	none	Other conditions: - Ergine ON	- None	- None ER, S	ERN_ENDE_E_LUEFT PWM activation signal TATUS_E_LUEFTER 0x4A79	N	Defect in wiring harness Electric fan defective	ohma) - Replace electric fan	reduction: off - CC message: none	An inoperative electric fan can also cause the engine to overheat.	Engine can overheat, breakdown in extreme cases	Probably not possible to activate electric fan, continued driving at reduced power possible.	none
						The fault is recognized when			Voltage condition: - Onboard electrical system							lamp: off - ECE electronic engine				
						the electric tan has no power supply.			Voltage between 9 V and 16 V Temperature condition:						Check wiring harmess Check electric fan cutoff relay	- CC message: none				
						Potential problem source(x) - Defect in wiring harness			- None Time condition:		Yes				- Check electric fan (specified resistance between PWM pin and Terminal 30 pin with	- US emissions warning lamp: off				
MEVD17.2- BN0000 0x31F0 12727 Electric fen actualizer Line disconnection	The diagnostic function monitors the wire helperan the electric fan and the CMI	10440	Fire 1 Cretrol Circuit	Contine System	Fee 1	Cutoff relay for electric fan defective Electric fan defective	This fault is logged in the control module's fault memory immediately.	10716	- None Other conditions: - Ergine ON	- None	- None ER. S	ERN_E_LUEFTER, ERN_ENDE_E_LUEFT PWM activation signal TATUS E LUEFTER 0x4A79	N	Defect in wiring harness Cutoff relay for electric fan defective Electric fan defective	electric fan plug disconnected: less than 1 mOhm) - Reclace electric fan	US electronic engine power reduction: off CC message: none	An inoperative electric fan can also cause the engine to overheat.	Possible apparent symptoms: Engine can overheat, breakdown in extreme cases	Breakdown notice: Probably not possible to activate electric fan, continued driving at reduced power possible.	Done
	ACCESS OF MELTING AN ADD AN ADD.	rome.	FRU / GARDA CELLA	County System											hazard). Check freedom of movement of fan. Remove any foreign objects/matter as required.					
															Fan is physically seized: Replace fan Fan turns freely: Connect plug and use tester					
						The fault is recognized when unit fails to reach the			Voltage condition: - Onboard electrical system						for fails to start rotating. Replace fan - Allow engine to run roughly 6 minutes, until it	- ECE emissions warring lamp: off - ECE electronic engine				
						specified rotation rate within the specified period.			voltage between 9 V and 15 V						warms to normal temperature (above 80 °C), read out diagnostic fault codes from ECU; if	power reduction: off - CC message: none				
						Potential problem source(x) - Fan shows resistance to			- None Time condition:		Yes				fan fault has returned: Replace fan - Allow engine to run an additional 10 minutes, read out diagnostic fault codes from ECU: if	- US emissions warning lamp: off				
MEVD17.2- Electric fain, self-diagnosis: Mechanical or	The diagnostic function monitors operation of					rotation - Electric fan is defective	This fault is logged in the control module's fault		- None Other conditions:		0x2Ft LUEF	S0DA03_STEUERN_E_ TER,?Activate electric		- Fan shows resistance to rotation	fan fault is again present: Replace fan - If no new diagnostic fault code has been	- US electronic engine power reduction: off	An inoperative electric fan can cause the engine	Possible apparent symptoms:	Breakdown notice:	
BN2000 0x31EA 12778 hardware fault MEV017.2 BN2000 0x3219 12825	the electric ten.	P2420	Eveporative Emission System Switching Valve Control Circuit High	EVAP System	Switching Valve	(electronics)	memory investigately.	Terminal 15	- none	- None	- None tan?	none	N	Electric fan is defective (electronics)	entered: Test OK	- CC message: none	to overheat.	None	None	none
NEVD17.2- BN2000 0x321A 12826 MEVD17.2-		P2419	Eveporative Emission System Switching Valve Control Circuit Low Everyonative Emission Scalars Sectorian Valve	EVAP System	Switching Valve															
BN2000 0x321B 12827 MEVD17.2-		P2418	Control Circuit/Open Evaporative Emission System Leak Detected	EVAP System	Switching Valve															
BN2000 0+321C 1282B MEV017.2- BN2000 0+321D 12829		P0442 P0455	(amail leak) Evaporative Errission System Leak Detected (very small leak)	EVAP System EVAP System	Leak Detection															
MEVD17.2- BN2000 0x321E 12830 MEVD17.2-		P1440	Diagnostic Module Tank Leakage (DM-TL) Pump Current Too High Diagnostic Module Tank Leakage (DM-TL) Pump	EVAP System	Pump Current															
BN2000 0x321F 12831 MEV017.2-		P1448	Current Too Low	EVAP System	Pump Current	-														
MEV017.2- BN2000 0x3221 12833		P1447	Diagnostic Module Tank Leakage (DM-TL) Pump Current Too High during Settching Sciencid Teat	EVAP System	Pump Current															
MEVD17.2- BN2000 0x3222 12834 MEVD17.2-		P240C	Evaporative Emission System Leak Detection Pump Heater Control Circuit High Evaporative Emission System Leak Detection	EVAP System	DMTL Heater															
BN2000 0x3223 12835 MEVD17.2- MEVD17.2- D2323 12835		P2468	Pump Heater Control Circuit Low Evaporative Emission System Leak Detection	EVAP System	DMTL Heater															
MEVD17.2- BN2000 0x3225 12837		P2402	Evaporative Emission System Leak Detection Pump Control Circuit High	EVAP System	Ритр															
BN2000 0x3226 12838 MEVD17.2		P2401	Pump Centrol Circuit Low Evaporative Emission System Leak Detection	EVAP System	Ритр															
MEDD172 BN2000 0x3228 12840		P2400 P143F	Evaporative Emission System Attemuning Diagnosis	EVAP System	Pump Leak Detection						<u> </u>									
									- Onboard electrical system voltage between 9 V and 15							- ECE emissions warning lamp: off				
									v Temperature condition: - None							ECE electronic engine power reduction: off CC message				
						The fault is registered when a message error is present.			Time condition: - None							- US emissions warning				
MEVD17.2-	The diagnostic function monitors communications on the CAN bus to assess		Message Monitoring EWS (Electronic			Potential problem source(s) - Defective CAS	The diagnostic fault code is logged when the fault remains present for loncer		- Unter conditions: - Engine off - Vehicle key recognized and					- Defective CAS	- Replace CAS	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms: In worst case the starter turns but the encine	Breakdown notice:	
BN2000 0x32AB 12971 EWS-DME message incorrect Frame error	electronic immobilizer messages.	U1165	Immobilizer) - Frame Error			- Defective DME	than 3 min.	none	valid for the duration of the Voltage condition:	- None	- None NO	CAN bus telegrams	N	- Defective DME	- Replace DME	- CC message: none lamp: off	none	fails to start	None	None
						The first is now			Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: off CC monomered				
						one peripheral wheelspeed is too high.			Temperature condition: - None							- US emissions warning				
	The diagnostic function monitors the signals					Potential problem source(s)	This fault is logged in the		Time condition: - None							lamp: off - US electronic engine power				
NE:VUT7.2- BN2000 0x32CB 13000 high	from the wheelspeed sensors to determine if they are valid.	P1518	Rough Road Detection Wheel Speed Too High			- Vehicle speed signal implausible	control module's fault memory immediately.	none	- Engine ON	- None	- None NO	none	N	- Vehicle speed signal implausible	- Continue fault diagnosis with DSC	reduction: off - CC message: none	none	Possible apparent symptoms: None	Breakdown notice: None	None
									Onboard electrical system voltage between 9 V and 15							- ECE electronic engine power reduction: off				
						The fault is recognized when the message is not received in the specified time			V Temperature condition: - None							- CC message: none - US emissions verninn				
						Potential problem source(x)	This fault is logged in the		Time condition: - None							lamp: off - US electronic engine power				
MEVD17.2- Poor-coad-surface detection: No wheel-speed BN2000 0s32CD 13001 signal received	The diagnostic function monitors reception of the message.	P1517	Rough Road Detection No Wheel Speed Signal			- Signal error from at least one wheelspeed sensor	control module's fault memory immediately.	none	Other conditions: - Engine ON	- None	- None NO	none	N	- Signal error from at least one wheelspeed sensor	- Continue fault diagnosis with DSC	reduction: off - CC message: none	note	Possible apparent symptoms: None	Breakdown notice: Note	None
									- Onboard electrical system voltage between 9 V and 16											
									V Temperature condition: - None											
									Time condition: - Time after start greater							- ECE emissions warning tamp: off				
						The diagnostic fault code is logged in the ECU fault			than 45 sec. Other conditions:							ECE electronic engine power reduction: off CC measurements				
						deviates by more than 35 km/h.			- Driving - No pressure on accelerator							- US emissions warning				
MEMORY 3	The diagnostic function determines whether the					Potential problem source(x)	This fault is logged in the		- Brakes not on		Time along shad south				Continue field dispersition for the industrial	lamp: off - US electronic engine power		Develop and an endowed	Providence entire:	
BN2000 0x32CC 13004 has sent signal of invalidity	plauaible.					signal	memory immediately.	none	operation Voltage condition:	- None	than 45 sec. NO	none	N	- I-cluster transmits "invalid" signal	cluster and in the DSC	- CC message: none	none	Cruise control fails to operate	None	None
									Onboard electrical system voltage between 9 V and 15 V											
									Temperature condition: - None											
						The diagnostic fault code is logged in the ECU fault			Time condition: - Time after start greater							ECE emissions warning lamp: off				
						deviates by more than 35 km/h.			Other conditions: - Engine on							power reduction: off - CC message: none				
						Potential problem source(x) Second sized basecrited by			- Driving - No pressure on accelerator							- US emissions warning				
Vehicle speed, plausibility: DSC signal Implausible in relation to instrument-cluster	The diagnostic function determines whether the vehicle speed from the instrument cluster is					 Speed signal transmissio by instrument cluster displays excessive deviation from 	This fault is logged in the control module's fault		- Brakes not on - No active closed-loop DSC		- Time since start greater			 Speed signal transmitted by instrument cluster displays excessive deviation from DSC speed 	- Continue fault diagnosis in the instrument	- US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000 0x32CD 13005 display	plauaible.					DSC speed signal	memory immediately.	none	operation Voltage condition:	- None	than 45 sec. NO	none	N	signal	cluster and in the DSC	CC message: none ECE emissions warning	none	Cruise control fails to operate	None	None
									Onboard electrical system voltage between 9 V and 15 V							lamp: off - ECE electronic engine rowar reduction: off				
						None			Temperature condition: - None							- CC message: none MY11 US:				
						Detential emblam seconds)	This fault is lower in the		Time condition: - None Other conditions							US emissions warning lamp: on US electronic engine prover				
MEVD17.2- BN2000 0x3200 13005 Vehide speed: Signal too high	The diagnostic function determines whether the speed signal is within a plausible range.	P0503	Vehicle Speed Sensor W IntermittentErratioNigh	Vehicle Speed Sensor	Electrical	Speed signal too high (possible tempering)	control module's fault memory immediately.	none	- Vehicle speed in excess of 4 km/h	- None	- None NO	NO	N	- Spred signal too high (possible tempering)	- Continue fault diagnosis with DSC	reduction: off - CC message: on	Date	Possible apparent symptoms: None	Breakdown notice: None	Nom
									- Onboard electrical system voltage between 9 V and 15							- ECE emissions warning lamp: off				
						The fault is recognized when the vehicle speed deviates			V Temperature condition: - Engine warmed to normal							- ECE electronic engine power reduction: off - CC message: none				
						from the calculated vehicle speed.			temp, above 80 °C Time condition:							MY11 US: - US emissions warning				
MEVD17.2- Vehicle speed, plausibility: Minimum speed	The diagnostic function monitors the plausibility		Vehicle Speed Sensor, Speed Too Low			Potential problem source(s): - Vehicle speed signal	This fault is logged in the control module's fault		None Other conditions: Engine speed above 1800	- Engine warmed to normal						Lamp: on - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000 0x3208 13016 under load not reached	of the speed signal.	P152A	Compared to Reference under Load	Vehicle Speed Sensor	Plausbilty	implausible	memory immediately.	none	- Onboard electrical system	temperature, more than 80°C	- None NO	NO	N	- Vehicle speed signal implausible	- Continue fault diagnosis with DSC	- CC message: on	note	Norm	None	Nom
									voltage between 9 V and 15 V Temperature condition:							MY10 ECE: - ECE emissions warning lamp: off				
						The fault is recognized when			- Engine warmed to normal temp, above 80 °C							- ECE electronic engine power reduction: off				
						the vehicle speed deviates from the calculated vehicle speed.			- None Other conditions:							- CC message: none MY11 US: - US emissions warning				
	The diagnostic function monitors the plausibility		Multiple Record Process Process			Potential problem source(s)	This fault is logged in the		- Engine ON - Trailing throttle/overnun	factory of the second sec						lamp: on - US electronic engine power				
bN2000 0x2209 13017 coast mole not reached	active.	P1528	Compared to Reference in Coast Down	Vehicle Speed Sensor	Plausibility	- vence speed signal implausible	memory immediately.	none	opm	temperature, more than 80°C	- None NO	NO	N	- Vehicle speed signal implausible	- Continue fault diagnosis with DSC	- CC message: on - ECE episoines	none	None	DreakDown rotice: None	None
									voltage between 9 V and 15 V							lamp: off - ECE electronic engine				
						The fault is recognized when the vehicle speed deviates from the calculated wehinter			Emperature condition Engine warmed to normal temp, above 80 °C							power reduction: off - CC message: none MY11 US:				
	The diagonalic function					speed.	This fact is been		Time condition: - None Other conditions							- US emissions warning lamp: on				
MEVD 17.2- BN2000 0x32DA 13018 roadspeed signal	in signals from the left and right wheetspeed sensors.	P0501	Vehicle Speed Sensor 'X' Range Performance	Vehicle Speed Sensor	Plausibility	- Vehicle speed signal implausible	control module's fault memory immediately.	none	- Engine speed above 1800 pm	- Engine warmed to normal temperature, more than 80°C	- None NO	NO	N	- Vehicle speed signal implausible	- Continue fault diagnosis with DSC	reduction: off - CC message: on	none	Possible apparent symptoms: None	Breakdown notice: None	None
						The fault is recognized when the signal from one			- Onboard electrical system voltage between 9 V and 15							lamp: of - ECE electronic engine				
						wheelspeed sensor varies from that of the other sensors during stable and			V Temperature condition: - None							power reduction: off - CC message: none				
						operating conditions.			Time condition: - None							- US emissions warning lamp: off				
MEVD17.2- BN2000 0x32DC 13020 obscs/with Kinnel InvolumiNa	The diagnostic function monitors the signals from the wheelspeed sensors for nieveibility	PISDC	Wheel Speed Sensor RearLeft Range/Performance	Wheel Sceed Sensor	Plausibil**	Potential problem source(s) - Vehicle speed signal implayeiHe	This fault is logged in the control module's fault memory immediately	10216	Other conditions: - Vehicle speed in excess of 4 km/h	- None	- Norma Isan	NO	Y	- Vehicle speed signal involunible	- Continue fault discrosiv with DKC	US electronic engine power reduction: off CC message: none	none	Possible apparent symptoms: Driver assistance austerio failed	Breakdown notice: None	None
preventional control of the second se		F Isbor			r manual f	The fault is recognized when the signal from one		16.0	- Onboard electrical system voltage between 9 V and 15		IND	1000			annual state originated with UGU	lamp: of - ECE electronic engine	100 M	anno anno spanifit 1880		1964.99
						wheelspeed sensor varies from that of the other			V Temperature condition							power reduction: off - CC message: none				
						perating conditions.			- None Time condition: - None							- US emissions warning lamo: off				
MEVD17.2- Vehicle speed, fort left wheel sensor,	The diagnostic function monitors the signals		Wheel Speed Sensor FrontLeft			Potential problem source(s) - Vehicle speed signal	This fault is logged in the control module's fault		Other conditions: - Vehicle speed in excess of							- US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
one000 0x3200 13021 plausbilly. Signal implausble	rom the wheelspeed sensors for plausibility.	P15DA	Range/Performance	Wheel Speed Sensor	Plaunibility	Implausible The fault is recognized when	memory immediately.	none	Onboard electrical system writene bet	I- NCOR	- norm NO	IND	IY	Vehicle speed signal implausible	Continue fault diagnosis with DSC	- CC message: none lamp: of	000%	Driver assistance systems failed	None	Norm
						wheelspeed sensor varies from that of the other			V Temperature condition							- LCL vectoric engine power reduction: off - CC message: none				
						sensors during stable vehicle operating conditions.			- None Time condition:							- US emissions warning				
MEVD17.2- Vehicle speed, rear right wheel sensor.	The diagnostic function monitors the signals		Wheel Speed Sensor ReanRight			Potential problem source(s) - Vehicle speed signal	This fault is logged in the control module's fault		Other conditions: - Vehicle speed in excess of							- US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000 0x32DE 13022 plausbilly: Signal implausble	from the wheelspeed sensors for plausibility.	PISDD	RangePerformance	Wheel Speed Senacr	Plausibility	implausible The fault is recognized when	memory immediately.	none	4 km/h - Onboard electrical system	- None	- None NO	NO	Y	Vehicle speed signal implauable	Continue fault diagnosis with DSC	- CC message: none , lamp: off	none	Driver assistance systems failed	None	None
						the signal from one wheelspeed sensor varies from that of the other			Voltage between 9 V and 15 V Temperature condition							ECE electronic engine power reduction: off - CC message: none				
						sensors during stable vehicle operating conditions.			-None Time condition:							- US emissions warning				
MEVD17.2	The discriptic function manifest the simula		Wheel Speerl Senary Excetilizate			Potential problem source(s)	This fault is logged in the control methods's fault		- None Other conditions: - Vehicle speart in arrows of							lamp: off - US electronic engine power reduction: c ⁴		Possible environt surrow	Residence entire-	
BN2000 0x220F 13023 plausibility. Signal implausible	from the wheelspeed sensors for plausibility.	P1508	RangePerformance	Wheel Speed Sensor	Plausibility	- vence speed signal implausible	memory immediately.	none	4 km/h Voltage condition:	- None	- None NO	NO	Y	- Vehicle speed signal implausible	- Continue fault diagnosis with DSC	- CC message: none Lamo: off	none	Driver assistance systems failed	DreakDown rokce: None	None
									- Onboard electrical system voltage between 9 V and 15							- ECE electronic engine power reduction: off				
						The fault is recognized when no start value has hear			V Temperature condition: - None							- CC message: none - US emissions verninn	Start value can only be programmed at the factory:			
	The descention by the second second		END Blacksin by			programmed.	This fault is logged in the		Time condition: - None							lamp: off - US electronic engine power	The EWS electronic immobilizer code is written to the DME ECC on the production line, or, when boths is exercised as			
BN2000 0x32E1 13025 programmed	diagnosis nunction determines whether a start value is programmed.	P1667	Programmed			Posential problem source(s) No start value programmed	control module's fault memory immediately.	Terminal 15	- none	- None	- None NO	none	N	- No start value programmed	- DME defective	CC message: none	none is support as spare part, prior to shipment from the Dirgotting plant	Prosecue apparent symptoms: None, as this fault occurs only on new units	Breakdown notice: None	None
									voltage between 9 V and 15 V							- ECE electronic engine power reduction: off				
						The fault is recognized when the start values of CAS and			Temperature condition: - None Time condition:							- CC message: none				
						CME do not agree. Potential problem source(+)	This fault is logged in the		- None Other conditions:							- US emissions warning lamp: off - US electronic engine power	New control modules can only be synchronized and calibrated at the factory: the control			
MEVD17.2- BN2000 0x32E2 13026 EWS tampering protection: expected response International transmission of the temperature of t	The diagnostic function determines whether a start value is programmed.	P16OF	EWS (Electronic Immobilizer) Implausible Response			- Defective CAS - Defective DME	control module's fault memory immediately.	Terminal 15	- Vehicle key recognized and valid	- None	- None NO	none	N	Defective CAS Defective DME	- Replace CAS - Replace DME	reduction: off - CC message: none	modules were cross-switched to mutually incorrect positional	Possible apparent symptoms: Starter turns, engine fails to start	Bneakdown notice: None	None

MEVD 17.2- BN2000 04	MEVD 17.2- BN2000 01	MEVD17.3- BN2000 D	MEVD17.2- BN2000 04	MEVD17.2- BN2000 02	MEVD17.2- BN2000 D.	MEVD17.2- BN2000 0x MEVD17.2- BN2000 0x MEVD17.2- BN2000 0x	MEVD17.2- BN2000 D0 MEVD17 2-	MEVD17.2- BN0000 Dr	MEVD17.2-	MEVD 17.2- BN2000 05	MEVD17.2- BN2000 0	BN2000 69	MEVD17.2-	MEVD17.2- BN2000 03	MEVD17.2- BN2000 04	MEVD17.2- BN2000 0x	MEVD 17.2- BN2000 Dr	BN2000 0	BN2000 0	MEVD 17.2- BN2000 04	
386 13236 1	356 13206	385 13205	304 13234	383 13293	392 13202	358 13147 35C 13148 35D 13149	330 13104	324 13103	326 13102	32C 13100	325 13093 I	28C 13036	26A 13034	289 13033	268 13032	267 13031	205 13030	285 13029	284 13028	283 13027	
Engine awards off time. Too last during after-run	Engine switch-off time, signal: missing	Engine switch-off time: Too slow during engine operation	Engine wetch-off time: Too fast during engine operation	Engine antich-off time, plauability: Time to long in correlation to engine-cooliert cooling	Engine andro of time, passable, Time to short in consisten to angine codert coding		87_3Terminal , power supply anktohed by main relay, electrical Strict docal to suff or the	Terminal 87_2, power supply settched by main relay, electrical 30-tor clocal to such or the discoveredien	Terminal 87_1, power supply switched by main relay, electrical: Short icruit to each or ine disconcertion	crcuil to earth or line disconnection Terminal 15, 3, line from CAS, electrical: Short cited to B+	Brake light which, plausibility: Signal implicable.	EWS-DME message incomed Timeout	Loe, nama noc cris sac vering sur Sacot Key	DME, internal fault: EWS data: Checksum error	DME, internal fault EWS data: Fault, activation- code atorage	DME, internal fault EWS data: no available memory possibility	EWS-DME interface Receive error, CAS interface	EWS DME interface Timeout	EWS-OME Interface Frame error	EWS DME interface Hardware fault	
The diagnostic function compares the internal times of the DME and the instrument cluster when the ignition is switched on again while the control module is in its shutdown phase.	The diagnostic function monitors transmission of the CAN time signal from the instrument cluater. Diagnosis is interlocked by CAN fault.	The dispositic function compares the internal times of the DAE and the instrument cluster while the angine is naming.	The diagnostic function compares the internal times of the DME and the instrument claster while the analysis is naming	The degradic function monitors be engine's calculated downtime by comparing it with the drop in coolernt temperature while the engine is subforcery.	The dispetitic bodies motion for surgical included function to comparely task the day in collect temperature with the engine is additionary.		The diagnostic function monitors the voltage- mappy was to Terminal 10% June 404 Ker J for an open war as which could be provid	The diagnostic function monitors the voltage- nuppy ware in Terminals 15142 and RLDT_2 for an open ware shaft cross the grant.	The dispositic function monitors the voltage- supply who to Terminals 1024, and 62.02, 1 for an event who should find the monitor	ter also of circula to ground and opena. The diagnostic function monitors the industed "Terminal 15 off wave from the CAS to the DAE for shird-circula to gettime.	of the brake light worksh	elicitoris innotifar massage.	The disposition of the second the electric limitablest mesages.	The diagnostic function monitors the destronic smoobilizer messages.	The diagnostic function monitors the electronic termobilizer messages.	The diagnostic function monitors the electronic immobilizer messages.	The diagnostic function monitors the electronic emobilities messages.	The disgradit function mostore the electronic sensibilitier messages.	The disgradit function mostore the electronic sensibilitier messages.	The diagnostic function monitors the electronic emobilitier messages.	
P15FC	PISFE	P15/8	PISFA	P1559	P1328		P15F8	PISED	21502	P1581	P0571	05167		Piese	P165D	P165C		Ptéci	P1660	P165A	
External Engine Off Timer Incrementation Too Fast During ECM Attemuning	External Engine Of Timer No Signal	Extend Engine Off Time Inconnectation Too Store During Engine Running	External Engree Off Timer Incommitation Too Fast Daring Engine Broning	External Engine Off Timer Engine Off Time Too Long in Constitution to Costing-Down Of Engine Costant	Edensi Engra Of Time Engra Of Time Tim Bart in Canadation to Casing Daw Of Engine Codet		Terminal 15N, 3 / 6°, 3 Power Supply Circuit	Territed SN 2/87 2 Power Supply Circuit	Terminal 150, 1787, 1 Preset Sproch Clands	Terminal 15 Senae Circuit Low Terminal 15 Senae Circuit High	Brake Switch 'K Crout Terminal 15 Sense Circuit Low	Control Module	Lost Communication With Wellicle Immobilizer	EWS (Electronic immobilier) Data, Checksum Error	EWS (Electoric Innobility) Data, Fauly Relates Cole Strage	EWS (Electoric trenchizer) Data, No Available Storage Possibility		Thread EWS (Electoric Innobilizer) Talagram	EWS (Electronic Inmobilizer) Talagram Env	EWS (Electoric Innobilize) Interface to ECM, Hardware Error	
Engine Off Timer, External	Engine Of Timer, External	Engine Of Timer, External	Engine Of Timer, Edenal	Engine Of Tanar, External	Engine Of Tran. Educat		Territual 15 / 87	Terminal 15 / 87	Territed 19/07	Territal 15/87	Brake Spetch										
Incrementation	Electrical	incrementation	Instantialian	Constitution	Comfation		Electrical	Encircal	Feeting	Electrical	Electrical										
sec. is present. Potential problem source(s): - Collateral fault resulting from fault memory entries in the DME and/or instrument cluster	Potential problem scurce(s): - Collateral fault resulting from fault memory writins in the DME and/or instrument cluster The fault in recognized when a direction of the time the time	while the engine is running. Potential problem sourcely) - Collision fluid resulting from fluid resulting from fluid resulting the DME and/or instrument cluster The fluid is recognized when no CAN time signal is trainmible for longer than 5 sec.	area again overy initial while the origine is running. Potential problem source(s): - Collateral flux resulting from flux memory entries in the DME and/or instrument memory collecting. memory in a dispathy of 12 sec. The comparison staffs again overy min /*	relative to the calculated time. Potential problem source(s): - Collateral faut aterming from a defective engine temperature sensor - Collateral faut aterming from incorrect time signal response to a dispert/ of 12 sec. The comparison	Be time regined for engine coding in physically short relative to the circulated time. Potential problem scorophy. - Instrument of cubic 2 circulated table 2 circulated states 2 circulated states 10 circulated states 2 circulates states 10 circulates 10 circulate		bgged when no volkeje is present at the DBE reput (Terminal GT 3 or 15 N-3) although the main reisy has although the main reisy has although the main reisy and - Dated in wing henesas between main relay and DBE - Main relay defactive - Defective DME	Logan DML UNE Logan DML INFL present at the DML input (0.87, 2 rr 15N, 2) athrough the main relay has closed. Pretential problem source(s), - Fase defective - Defect in writing humas Between main relay and DME - Main relay defective - Opfective DME	logged when no voltage is present at the DAM legal (0.87, for 15N, 1) athrough the main raisy has closed. Potentia present source(s): - Fuse defective - Defect in wring harness between main raisy and DAM - Main raisy defective - Defective DMM	Defective DME The fault is recognized by the driver closed diagnostic function. Potential problem source(s): - Defectine viring harness bitween CAS and DME - Defective CAS - Defective DME	Defective DME The fault is recognized by the driver cloud diagnosis function. Potential problem source(s): - Defect in wring harness between CAS and DME - Oefective CAS - Defective DME	Defactive DME The fault is recognized when the staud is recognized when the status of the travele light switch does not correspond to that of the travele light test switch. Potential problem source(h): - Defactive witring humass Brake jait writch defactive	- cattle definition accreacy of - cAttle defective - cattle defective The fault is recognized when no massage has been received from the CAS. Potential problem source(s); - Defective wing hamesa - cateway defect - cateway defect - befective CAS	Potential problem source(s): - DME defective The fault is recognized when errors are present in the saved EWS electronic immobilizer data.	Potential problem source(k) - DME defective The fault is recognized when errors are present in the saved EVIXS electronic intercolitizer data.	Potential problem source(s): - DME defective The fault is recognized when errors are present in the saved EWS electronic	Defective CAS Defective CME The fault is recognized when ro memory is available the EVIS electoric immobilizer synchronization.	- Defective CAS - Defective DME The fault is recognized when the checksum is false. Potential problem source(s)	Defective CAS - Defective CAE - Defective DME The fault is registered when a time limit violation is defected. Potential problem source(ix) - Defective using harmasa	Ordective uniting harmas Ordective CAN Ordective CANE Ordective CANE The fault is registered when a message error is present. Potential problem source(b):	The fault is registered when a message error is present. Potential poblem source/skt
This fault is logged in the control module's fault memory immediately.	This fault is logged in the control module's fault memory immediately.	The diagnostic fault code is logged when the fault remains present for longer than 3 min.	The diagnostic fault code is logged when the fault remains present for longer than 3 min.	This fault is logged in the control module's fault memory immediately.	This fault is logged in the cohol modula's fault memory immediately.		2 This fault is logged in the control module's fault memory immediately.	This fault is logged in the control module's fault memory immediately.	This fault is logged in the control models's fault memory immediately	memory investigately.	2 sec. This fault is logged in the control module's fault memory immediate's	This fault code is logged in the control modulin fault memory when it remains present for longer than	Control module is sold memory intradiately. The diagnostic fault code is logged when the fault remains present for longer	control module's fault memory immediately.	control module's fault memory immediately.	This fand is lower in a .	control module's fault memory immediately.	nematina present for longer than 3 min.	The diagnostic fault code is logged when the fault	The fault is logged in the control module's fault memory immediately. The diagnostic fault code is logged when the fault	
Terminal 15	Terminal 15	none	Terminal 15	none	1014		Terninal 15	Terminal 15	Terrine 15	Terrinal 15	Terminal 15	1018	Terminal 15	Terminal 15	Terminal 15	Terminal 15	none	none	none	1004	
V Temparature condition: - None Time conditions: - None Other conditions: - none	emperature conditor: - None Three condition: - None Cher conditions: - none Voltage conditions: - conditi	V Temperature condition: - None Time condition: - Other condition: - Engine ON Voltage condition: - Other condition: - Other condition: - Voltage between 9 V and 15 V	V and 15 V Temperature condition: - None Other condition: - Engine ON - Engine ON - Other conditions: - Other conditions: - Other conditions: - Other conditions: - Other conditions:	V Temperature condition: - Engine temperature at engine shutdown + 80°C Time condition: - Offer condition: - Engine ON Voltage condition: - Dobcand electrical system	Volkage condition: - Otherard electrical system retrage batework by and 15 V retrage han condition: - Engine more provided by no 1°C Three condition: - None Other condition: - Otherard electrical system - O		Voltage condition: - Ortboard electrical system voltage between 9 V and 55 V Temperature condition: - None Other conditions: - none	Vollage condition: - Onboard electrical system vollage between 9 V and 16 V Temperature condition: - None Other conditions: - none	Voltage condition: - Onboard electrical system voltage between 9 V and 16 V Temperature condition: - None Time condition: - None Chier condition: - rome	- none - none Voltage condition: - Onboard electrical system voltage between 9 V and 16 V Temperature condition: - None Time condition: - None Other conditions: - Studion phase	Citier conditions: Voltage conditions: - Onbeard electrical system voltage between 5 V and 16 V Temperature conditions: - Inne conditions:	valid for the duration of the - Onboard electrical system voltage between 5 V and 16 V Temperature condition: - None Time condition: - 2 min. continuous open circuit at both switchms (brake light workd and brake light bast and(c))	Uniter constance: Control Contro Contro Contro Co	Other conditions: - none - tonie - chicaird electrical system voltage between 9 V and 16 V Temperature condition: - None Time condition: - None	Other conditions: - crose Voltage condition: - Onboard electrical system voltage between 9 V and 15 V V Temperature condition: - None Time condition: - None	Cher conditions: - none Voltage condition: - Indicard electrical system voltage between D V and 15 V V Temperature condition: - None Time condition:	Vehicle key recognized and valid for the duration of the Voltage condition: Onboard electrical system voltage between 9 V and 15 V V Temperature condition: None Time condition: None	Vehicle key recepted and valid for the duration of the Orboard electrical system voltage between 9 V and 15 V Temperature condition: None Time condition: None Other condition: Engine off	Vehicle key recepted and valid for the duration of the Onboard electrical system voltage between 9 V and 15 V Temperature condition: None Other condition: Engine off	Engine off Vahids key recognized and vahid for key recognized and vahid for key constraints Otherard electrical system voltage between 24 loss V V Ferrperature condition: None Time condition: - None Cher conditions: Engine off	Onlocard electrical system voltage between 9 V and 16 V Temperature conditor: - None Three conditions: - None Other conditions:
- Nona - Non	- None - Non	- None - Non	- Nerve - Nerv	- Engine temperature at engine ahudowe > 80°C - Non	- Engine temperature at engine shutdown - 50 °C - Engine coded deem - 10 °C - Nor		- None - Non	- None - Non	- None - Marci	- Norma - Norm	- Norse light T	- Norre - Norr - 2 mi circul (trusk	- Nors - Nor	- Nena - Nen	- None - Non	- Nona - Non	- Nona - Non	- Norre - Norr	- Norre - Norr	- Nons - Non	
ns NO	ne None	nı D	ne NO	ni CV in	na 10		ne NO	na NO		ne NO	ne NO	ne NO	<u>n NO</u>	ne NO	NO	ns NO	ne NG	ne NO	ne NO	NO	
0076	None		1076	0076	7076		0076	1008		0078	1008	CAN		10/16	none	none	CAS 1	CAST	CAST	CAS1	
Y	N	¥		Y	γ		N	N		N	N	us telegrama N		N		P6	us lelegram N	us telegram N	us telegram N	ua kelegram N	
- Collateral fault resultin entries in the DME and	- Collateral fault resulti entries in the DME and	- Collaberal Suck results entries in the DME and	- Collateral fault resultin entries in the DME and	Collateral fault storm engine terrere - Collateral fault storm signal from inst	- Instrument cluster disc 30 during stationary pl - Colleard Must sterer - Colleard fault from Inc Box Instrum		- Puse d - Defect in veiting have - Main mid - Defect - Defect		- Puer d - Defect in wing hans - Nain nig - Nain nig	- Defect - Defect in wiring hums Defect - Defect	- Defect in wring here 0	- Defective voi - Defective voi - Brake light no	- DME d - Defective vi - Gatewa - Defect	- DME d	- DME d	- DME d	- Dahed - Dahed	- Delect	- Defective wi	- Defective vi - Defective - Defective - Defective	
g from fault memory to instrument cluster	g from fault memory or instrument cluster	g from fault memory for instrument cluater	g from fault memory or instrument cluster	ing from a defective ature sensor g from incomect time ument cluster	nnected from Terminal ase (bathry change) ing from a defective where sensor reset lime signal from ent chaster		rfective a between main relay ME defective e DME	rfective a between main relay ME defective re DME	rfective a between main relay DAE defective = DMF	as between CAS and te te CAS to DME	as between CAS and te as CAS as DME	ing harness tch defective	ing harness y defect a CAS	rfective	rfective	fective	n CAS = DME	e CAS e DME	ing harness	ing hanness ni CAS ni DME	
Because this is a collateral fault, start resolving issues related to other faults tog the DME or instrument cluster, no additi action will be needed with these kinds of	Because this is a collateral fault, start resolving issues related to other faults log the DME or instrument cluater; no additi action will be needed with these kinds of	Because this is a collecteral fault, start resolving insuas related to other faults log the DME or instrument chalter; ro addl action will be needed with these kinds of	Because this is a collateral fault, start resolving issues misted to other faults log the DME or instrument cluster, no addition action will be needed with these kinds of	Watch for diagnostic fault code antina n to the coolard temperature sensor, replac coolard temperature sensor as indicat coolard temperature sensor as indicat correct	- If Terminal 30 was disconnected, no h action required - Note any togget faults nitiated to the co languators wanted - Check whether the instrument cluster to connect		- Check law - Check wing hanses bahween main nei DAE - Replace main miny - Replace DME	- created MXE - Check fase - Check wing hansas between main rela - Replace main selay - Replace DXE	- Check fase - Check wing hanses between main rela DME - Reptace main relay - Reptace 1087	Replace DWE Orack wing harness between CAS are Replace CAS Replace CAS	- Replace DME - Check white harness between CAS are - Replace CAS - Replace CAS	Replace DME Oteck wing harness between DME and Byth switch Replace baske light switch	- Check witing harness on CAS, gateway, be DME - Replace gateway - Replace gateway - Replace gateway	present continuously or if the fault hequer greater than 3 - Crely replace the DME if the fault rema	- Replace DME	- Replace DME	- Replice CAS - Replace DME	- Replace CAS - Replace CME	- Replace DAS - Replace DMS	- Check wing harness between CAS are - Replace CAS are - Replace DME	
- CC message: on - US entiations warring by lamp: of - US electoric engine power reduction: of auta - CC message: none	- US emissions warning lamp: off - US elactoric engine power reduction: off - US elactoric engine - CC message: none lamp: on - ECE electoric engine - ECE electoric engine	- CC massage: on - US entinitions warring large dn - US electorics regime power reduction: of - CC massage: none - ECC entinespections - CC massage: on - CC massage: on	power resultan: on - CC message: on - US emissions working by to - US emissions working lamp: off - US ekchonic angle - CC message	- LCE electoric engine power reduction: on - CC message: on - US entiasions worring ang: of - US electoric engine power eductoric engine power lang: on - CC message: norm lang: on - LSe electoric engine	ECE entations wanting array on ECE declorite englas por englas por englas ECE declorite englas ther - US ensatisment englasses wanting array of - US ensatisme engla some - ECE ensatisme saming ECE ensatisme saming margin on The CE ensatisme saming array on The CE ensatisme saming on The CE e		ECE entiations warning Lang: on ECE electronic engine power reduction: on - CC message: on - US entiations warning LuS electronic engine power reductors: of - CC message: none	- SolumentABEL ER - ECE emissions warning aseys on - ECE emissions warning aseys on - ECE emissions warning or - CC measage: on US emissions warning amp: on US elactoric engine power robustors on - CC measage: on	- ECE entiations warring lamp: on - ECE entiations on - PCE entiations on - OC messages: on - US entiations warring lamp: on - US extends entipe power reductions: on proven - OC messages: on	CC massage on Long off Long off Long off CC massage on CC massage on Long of the second official off	CC massage: on Hamp: of ECE electronic engine power reduction: of - CCE massage: on US emissions warring lamp: on IDME - US editornic engine power reductors: on - CCE massage: on	- CC massage: none - ECC ensuings: none ECE ensuings: werning branc engine power reduction: off - CC massage: on - UC ensuing: branc branc branc branc coff cost engine power reduction: off	y a reaction of - CC massage: norm - ECE entitions warring barp: of - ECE electronic engine power reduction: of - CC massage: norm - US electronic avgring barp: of - US electronic avgring barp: of - US electronic angle power reduction: of	cy is reduction: off - CC message: none lamp: off - ECE electronic engine power reduction: off - CC message: none - US entiations warning lamp: off ins	reduction: of - CC message: none hamp: of - ECE electronic engine power reduction: of - CC message: none - US emissions werning hamp: off - US emissions werning	- Standard Regna poster - CC massage: none - CC massage: none samp: dt - CCI massage: none poser reductor: of - CC massage: none - US emission: none - US emission: warring samp: of - US emission:	reduction: off - <u>CC message: none</u> lamp: off - ECE electoric engine power induction: off - CC message: none - US emissions werning lamp: off - US edictoric engine even	reduction: off - CC massage: none - BCE entiations warring barp: off - BCE electoric engine power induction: off - CC message: none - US entiations warring barp: off - US electoric engine power	reduction: off - CC massage: none - BCE entiations warning barp: off - BCE electronic engine power reduction: off - CC message: none - US entiations warning barp: off IDME - US electronic engine power	DME - US-silectronic engine power reduction off - CC mawager nome - ECE entiaticns warring large: eff - ECE entiaticns warring - ECE electoric regine power reduction: off - CC message: nome - US entiations warring large: eff	ECE ensistors warring barp: off ECE electronic engine power reduction: off CC message: none US ensisters warring barp: off Ensisters warring
US only	US only	US only	US only	US only	US eriy		none			none		none	19508	none	none	none	none	none	none	nore	
Possible apparent symptoms: None	Possible appirent symptoms: No display of time and date	Possible apparent symptoms: None	Possible apparent symptoms: None	Pessible apparent symptoms: None	Pasalis agarest synthese. Note		Possible apparent symptome: Range from molored jown to basistoon withde	Possible apparent symptoms: Parge from reduced power to basildown vertice	Pesable appired symptoms: Range from robord power to breakform	Nore Possible apparent symptoms: Nore	CC message Possible apparent symptoma: None	talls to start Possible apparent symptoms:	Possele apparent symptomic - Brieldown in extreme cases Possible apparent symptomic in wood case the statisfic turns of the engine	Possible apparent symptoms: - Breakdown in eshwrw cases	Possible apparent symptoms: - none	Possible apparent symptoms: - none	In worst case the stater turns but he engine fells to start	In worst case the statter turns but the engine fields to start . Possible apparent symptoms:	In worst case the statter turns but the engine fields to start . Possible apparent symptoms:	Possible apparent symptom: In word case the staffs turn but the engine fails to start	
Bruikdown notice: None	Breakdown notice: None	Braakdown rotte: None	Breakdown notce: Note	Breakdown notice: None	Braikfan rola: New		Brashtisen rotice: Norm	19578 Braakdoon notos: Nerra	Braildown rothce:	Enwidown notice:	Breakdown rothce:	Nore Breakdown notice:	Enwedown rotow	Breakdown nefoe: - none	Breakdown rotto:	Breakdown rotice: - norek	Breakdown rotice: Norm	Breakdown rotos: Norw	Breakdown rotos: Norw	Breakdown notice: None	
- The ECU shutdown pha and 2	Na			10	10		N	N8		N 10	N	N	- 1	- n	- 11	- 10		N	N		
use lasts between 1 min 20 min.	ione	ione	icon	<u>tiona</u>	None		vione		Norma	278	None	278	008	ione	<u>one</u>	<u>ene</u>	0780	2018		DNN	

						The fault is recognized when a deviation of more than 12		V 	/oitage condition: Onboard electrical system oitage between 9 V and 15							lamp: on - ECE electronic engine power reduction: on				
						sec. is present. Potential problem source(x):		- -	/ femperature condition: None							- CC message: on - US emissions warning				
MEVD17.2-	The diagnostic function compares the internal times of the DME and the instrument cluster when the ignition is settiched on again while the	0.000	External Engine Off Timer Incrementation Too	Easter Of Taxa Estanti	Transmission	Collateral fault resulting from fault memory entries in the DME and/or instrument	This fault is logged in the control module's fault	1 - -	Ime condition: None Wher conditions:					Collateral fault resulting from fault memory active in the DME and/or indexment during	Because this is a collateral fault, start by resolving issues related to other faults logged in the DME or instrument cluster; no additional action and he sended with these blocks of faults.	lamp: off - US electronic engine power reduction: off	18	Possible apparent symptoms:	Breakdown notice:	- The ECU shutdown phase lasts between 1 min
MEQDIT/2- BN2000 0:33DC 13276 MEVDIT/2-	Control model is in as anatown prase.	Plane -	alle beng conventioning	Lingue Crimer, Literar		0.000	Canady Introducty.		TATR.		- NO.	10.0				- communger norm	65 68 9			20020100
BN2000 0x30D 13277 MEVD17.2- BN2000 0x30DE 13278 MEVD17.7-																				
8N2000 0x330F 13279 MEVD17.2- 8N2000 0x33E0 13280																				
MEVD17.2- BN2000 0x33E1 13281									Onboard electrical system							lamp: off				
						The fault is recognized when the oil pressure rises above the limit several times within		v V T	oltage between 9 V and 15 / Temperature condition:							ECE electronic engine power reduction: off - CC message: none				
						Potential problem source(x): - Ol pressure control valve	This fault is looped in the	1	- Engine warmed to hormal emp, above 80 °C Time condition: None							- US emissions warning lamp: off - US electronic engine power		Possible accorect symptoms:		
MEVD 17.2- BN2000 0x32FC 13308 variations	The diagnostic function monitors the oscillation characteristics of the oil pressure.	P1596	Engine Oil Pressure Control, Dynamic, Pressure Fluctuations			defective - OI pump defective the of pressure rises her and	control module's fault memory immediately.	Terminal 15 -	Other conditions: Engine ON	Engine warmed to normal temperature, more than 80°C	- None yes+ SGSD job name	- None	N	OI pressure control valve defective OI pump defective	Replace of pressure control valve Replace of pump	reduction: of - CC message: none - ECE emissions warning	nate	- Vibration noise at a frequency between 5 Hz and 7 Hz	Breakdown notice: - none	- 1008
						a defined level in relation to oil temperature and engine speed.			Onboard electrical system oltage between 9 V and 15							lamp: off - ECE electronic engine power reduction: off				
						Potential problem source(x): - Defect in wiring harness		5	Temperature condition: - Engine warmed to normal emp, above 80 °C Two exectlines					Perford in white how we had seen all ensures		- CC message: none - US emissions warning loans off				
MEVD17.2- BN2000 0x33FD 13309 pressure to high, emergency operation	The diagnostic function monitors the oil pressure.	P150F	Engine Oil Pressure Control, Static, Switchover To Limp Home Operation Because Engine Oil Pressure Too High in Map Operation			and DME - Defective oil-pressure sensor	This fault is logged in the control module's fault memory immediately.	Terminal 15	None Other conditions: Engine ON	- Engine warmed to normal temperature, more than 80°C	- None yes+ SGBD job name	- None	N	Detect in using names devices or passed sensor and DME Defective of-pressure sensor OI pressure control valve defective	Replace of pressure control valve	- US electronic engine power reduction: off - CC message: none	DODE	Possible apparent symptoms: - none	Breakdown notice: - none	- none
						the oil pressure drops below a defined level in relation to oil temperature and engine		v	/oitage condition: Onboard electrical system							- ECE emissions warning lamp: off				
						speed. Potential problem source(x)		v V V	oltage between 9 V and 15 / Remperature condition:							ECE electronic engine power reduction: off - CC message: none				
			Engine OI Pressure Control, Static, Switchover			between oil-pressure sensor and DME - Defective oil-pressure	This fault is logged in the	1	emp, above 80 °C Time condition: None					Defect in wiring harness between oil-pressure sensor and DME Defective oil-pressure sensor	Check wiring harness between of-pressure sensor and DME Replace of-pressure sensor	- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 0x25FE 13310 too low, emergency operation	The diagnostic function monitors the oil pressure.	P1540	To Limp Home Operation Because Engine OI Pressure Too Low in Map Operation			- Oil pressure control valve	control module's fault memory immediately.	Terminal 15	Other conditions: Ergine ON Onboard electrical system	- Engine warmed to normal temperature, more than 80°C	- None yes+ SGBD job name	- None	N	OI pressure control valve defective OI pump defective	Replace oil pressure control valve Replace oil pump	reduction: off - CC message: none - ECE emissions warning	none	Possible apparent symptoms: - none	Breakdown notice: - none	- 1008
						The fault is recognized by the driver circuit's diagnostic function.		w V 3	oltage between 9 V and 15 / remperature condition:							lamp: off - ECE electronic engine power reduction: off				
						Potential problem source(s): - Defective plug or wining harrense		- 1	None Ime condition: None Wher conditions:						- Charle widon harness habeaun of ouron and	- CC message: none - US emissions warning larm: off				
MEVD17.2- BN2000 0x32FF 13311 Circuit to B+	The diagnostic function monitors the wire from the DME to the oil-pressure control valve for shorts to positive.	PISEC	Engine OI Pressure Control Valve Circuit High			Oil pressure control valve/oil pump defective Oefective DME	This fault is logged in the control module's fault memory immediately.	none p	Engine on Control-activation of ol- ressure control valve	- None	steuern_odr, - None steuern_ende_odr	PWM activation signal, Oxfease	N	Defective plug or wiring harness OI pressure control valve/oil pump defective Defective DME	DME - Replace oil pressure control valve/oil pump - Replace DME	US electronic engine power reduction: off - CC message: none	Date	Possible apparent symptoms: None	Breakdown notice: None	Norm
						The fault is recognized by the driver circuit's diagnostic		-	Onboard electrical system oitage between 9 V and 15 /							ECE enissions warning lamp: off ECE electronic engine				
						Potential problem source(x)		1	Temperature condition: None Time condition:							- CC message: none				
MEVD17.2- Oil pressure control valve, activation: Short	The diagnostic function monitors the wire from the DME to the oil-pressure control valve for					harness - Oil pressure control valve/oil pump defective	This fault is logged in the control module's fault	c -	When conditions: Engine on Control-activation of ol-		stevern_odr,	PWM activation signal,		Defective plug or wiring harness OI pressure control valve/oil pump defective	Check wing harness between oil pump and DME Replace oil pressure control valve/oil pump	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000 0x3400 13312 circuit to earth	shorts to ground.	P15EB	Engine OI Pressure Control Valve Grout Low			- Defective DME The fault is recognized by	memory immediately.	none g	Onboard electrical system ofbage between 9 V and 15	- None	- None alsuern ende odr	Oxfasa	N	- Defective DME	- Replace DME	- CC message: none - ECE emissions warning lamp: off	nane	None (possible increase in fuel consumption)	None	Nom
						the driver circuit's diagnostic function.		V 7 -	/ Temperature condition: None							ECE electronic engine power reduction: off CC message: none				
	The decreatic function monitors the wire from					Oli pressure control	This fault is looped in the	- c	Ine conditions: None Zher conditions: Engine on					- Defective plup or vering harmens	- Check wing harness between oil pump and DME	- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 0x3401 13313 disconnection	the DME to the cil-pressure control valve for open circuits.	PISEA	Engine OI Pressure Control Valve Circuit/Open			valve/oil pump defective - Defective DME	control module's fault memory immediately.	none p	Control-activation of ol- ressure control valve Onboard electrical system	- None	- None aleuern_odr. aleuern_ende_odr	PWM activation signal, Oxfease	N	OI pressure control valve/oil pump defective Offective DME	Replace oil pressure control valve/oil pump Replace DME	reduction: off - CC message: none lamp: off	none	Possible apparent symptoms: None	Breakdown notice: None	None
						The fault is recognized when the oll pressure rises beyond a defined level in relation to		v v z	oltage between 9 V and 15 / femperature condition:							ECE electronic engine power reduction: off - CC message: none				
						oil temperature and engine speed.	This fault is looped in the	-	- Engine warried to normal emp, above 80 °C Time condition: None							US emissions warning lamp: off US electronic environment				
MEVD17.2- BN2000 0x3405 13317 Oil pump, mechanical Oil pressure too high	The diagnostic function monitors the oil pressure.	P15A3	Engine OI Pressure Too High			- Mechanical defect in oil pump	control module's fault memory immediately.	Terminal 15	Other conditions: Engine ON	- Engine warmed to normal temperature, more than 80°C	- None yes+ SGBD job name	- None	N	- Mechanical defect in oil pump	- Replace oil pump	reduction: off - CC message: none	none	Possible apparent symptoms: - none	Breakdown notice: - none	- none
						The fault is recognized when the of pressure rises beyond a defined level in relation to		w V T	oltage between 9 V and 15 / femperature condition:							ECE electronic engine power reduction: off CC message: on				
						oil temperature and engine speed.	This fault is lowerd in the	1	- Engine warried to normal emp, above 80 °C fime condition: None							US emissions warning lamp: off US electronic encoder			Breakrinan poline	
MEVD 17.2- BN2000 0x3406 13318 Oil pump, mechanical Oil pressure too low	The diagnostic function monitors the oil pressure.	P0524	Engine OI Pressure Too Low			Mechanical defect in oil pump The field is reconsided when	control module's fault memory immediately.	Terminal 15	Other conditions: Engine ON	- Engine warmed to normal temperature, more than 80°C	- None yes+ SGSD job name	None	N	- Mechanical defect in oil pump	- Replace of pump	reduction: off - CC message: on large: off	0208	Possible apparent symptoms: - none	Engine damage possible. Switch off e continued driving is not possible.	ngine, - 1008
						the oil pressure remains at maximum level despite targeted application of		v v	oltage between 9 V and 15 / femperature condition:							ECE electronic engine power reduction: off CC message: on				
			Frains Of Pressure Control Mechanical			voltage to the solenoid value.	This fault is lowerd in the		- Engine warried to normal emp, above 80 °C fime condition: None							US emissions warning lamp: off US electronic environment			Breakrinan poline	
MEVD 17.2- BN2000 0x3406 13320 fully energized position (minimum of pressure)	The diagnostic function monitors the oil pressure.	P15A1	Solenoid Valve Sticking In Fully Energized Position (Minimum Oil Pressure)			- OI pressure control valve defective	control module's fault memory immediately.	Terminal 15	Ther conditions: Ergine ON	- Engine warmed to normal temperature, more than 80°C	- None yes+ SGBD job name	- None	N	- Oil pressure control valve defective	- Replace of pressure control valve	reduction: off - CC message: on	none	Possible apparent symptoms: - none	Engine damage possible. Switch off e continued driving is not possible	ngine, - none
						the oil pressure remains at maximum level despite targeted application of		w V T	oltage between 9 V and 15 / Temperature condition:							ECE electronic engine power reduction: off - CC message: none				
						voltage to the solenoid value.		-	- Engine warmed to normal emp, above 80 °C lime condition:							- US emissions warning lamp: off				
MEVD17.2- BN2000 0x3409 13321 OF-pressure control valve, mechanical: stuck in BN2000 0x3409 13321 de-energized position (maximum of pressure)	The diagnostic function monitors the oil pressure.	P15A2	Engine Oli Pressure Control, Mechanical, Solenoid Valve Sticking In De-Energized Position (Maximum Oli Pressure)			Potential problem source(s): - Oil pressure control valve defective	This fault is logged in the control module's fault memory immediately.	Terminal 15	None Sher conditions: Ergine ON	- Engine warmed to normal temperature, more than 80°C	- None yes+ SGBD job name	- None	N	- Oil pressure control valve defective	- Replace of pressure control velve	- US electronic engine power reduction: off - CC message: none	Date	Possible apparent symptoms: - none	Breakdown notice: - none	- none
						The fault is recognized when the voltage of the engine of- pressure sensor exceeds 4.9 V.			/oltage condition: Onboard electrical system oltage between 9 V and 15 /							ECE electronic engine power reduction: off - CC message: none				
						Potential problem source(s): - Fault in wiring harness		5	femperature condition: None Time condition:					- Fault in wiring harness between sensor and	- Check wiring harness between DME and	- US emissions warning lamp: off				
MEVD 17.2- BN2000 0x3426 13350 circuit to B+	The diagnostic function monitors the upper voltage limit of the engine of pressure sensor.	P0523	Engine OI Pressure Sensor/Switch W High			between sensor and DME - Sensor defective - Defective DME	This fault is logged in the control module's fault memory immediately.	Terminal 15	None Xher conditions: none	- None	- None NO	Read test data block; ID 5555 ⁴	N	DME - Sensor defective - Defective DME	sensor - Replace sensor - Replace DME	US electronic engine power reduction: off CC message: none	none	Possible apparent symptoms: None	Breakdown notice: None	None
						the voltage of the engine oil- pressure sensor is less than 0.1 V.		v -	Voltage condition: Onboard electrical system							ECE emissions warning lamp: off ECE electronic engine				
						Potential problem source(x): - Fault in wiring harness between engine oil-pressure			V V None							- CC message: none - US emissions warning				
MEVD17.2- Engine oil pressure sensor, electrical: Short	The diagnostic function monitors the engine of-					sensor and DME - Engine oil-pressure sensor defective	This fault is logged in the control module's fault		Time condition: None Other conditions:			Read test data block;		Fault in wing harness between engine of- pressure sensor and DME Engine of pressure sensor defective	Inspect wing harness between engine of- pressure sensor and DME Replace engine of-pressure sensor	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN200 003427 13351 Circuit to earth	preseure sensors lower votage and	P0522	Engine of Pressure SensorSenth A Low			the oil pressure fails to change by more than 12 hPa	marriery immediately.	V	Note /oltage condition: Onboard electrical system	- 1006	- NOTHE NUL	0.3807	n	- DIRENA DAE	- regnada Late	Lamp: of - ECE electronic engine	norm	NOR	NOTE	NOTE
						Potential problem source(x) - Defect in wiring harness		- -	/ / remperature condition: None							- CC message: none - US emissions wirning				
MEVD17.2- Engine of pressure sensor, plausibility: Signal	The diagnostic function monitors the oil	89521	Engine OI Pressure Sensor/Switch 'A'			and DME - Defective of-pressure sensor	This fault is logged in the control module's fault memory immediately	Terminal 15	Ime condition: None Other conditiona: Shufdroon chase	None	None years SQRD inh name	None	N	Defect in writing harmons between oil-pressure sensor and DME Defective oil-measure sensor	Check wring harness between oil-pressure sensor and DME Benfare oil-pressure sensor	lamp: off - US electronic engine power reduction: off - CC message: prove		Possible apparent symptoms:	Breakdown notice:	
						The fault is recognized when the oil condition sensor recorts a fault.			Onboard electrical system oltage between 9 V and 15							lamp: off - ECE electronic engine power reduction: off				
						Potential problem source(s): - Defect in plags or wiring		1	femperature condition: None Time condition:							- CC message: none - US emissions warning				
MEVD17.2- Oil condition sensor, electrical: Level	The diagnostic function monitors the oil	01497	Factor Of Carilla Scenaria and Measurement	Environ Cil Couldo Reserve		hamess between oil condition sensor and DME - Oil condition sensor	The diagnostic fault code is logged when the fault remains present for longer	- G -	None Sher conditions: Engine on					Defect in plugs or wiring harness between oil condition sensor and DME Oil sensitive sensors defective.	Check plugs and wiring harness between oil condition sensor and DME Dealers of events are sensor.	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms: Adaptation (reduction) of engine oil service	Breakdown notice:	Mana
	Constant and an					The fault is recognized when the oil condition sensor		-	Onboard electrical system oltage between 9 V and 15	- 194.08	- man		a	- CO GALORINO PROMO GRADA	- 10,000 10 100,000 100,000	ECE emissions warning lamp: off FCE electronic envine		1.00.00		(65.9)
						Potential problem source(s) - Defect in plugs or wiring		7 - 9	Temperature condition: Engine oil temperature peaker than 100 °C							power reduction: off - CC message: none				
MEVD17.2- Of condition sensor, electrical: Temperature	The discretic function monitors the oil		Engine OI Quality Sensor Temperature			sensor and DME - Water in oil - Oil condition sensor	The diagnostic fault code is logged when the fault remains present for longer	- G	Longer than 15 minutes Wher conditions: Engine on	- Engine oil temperature				Defect in plugs or wiring harness between oil condition sensor and DME - Water in oil	Check plugs and wiring himess between oil condition sensor and DME - Replace engine oil	- US emasors warring lamp: off - US electronic engine power reduction: off		Possible apparent symptoms: Adaptation (reduction) of engine oil service	Breakdown notice:	
BN2000 0x3440 13376 mailunction	temperature signal to detect electrical faults.	P1586	Measurement	Engine OI Quality Sensor	Temperature	defective The fault is recognized when no BSD televrem from the oil	than 1 min.	Terminal 15	Ergine speed above 5000 /ottage condition: Onboard electrical system	greater than 100 °C	- Longer than 15 min. NO	none	N	- Oil condition sensor defective	- Replace of condition sensor	- CC message: none lamp: of	none	interval	None	Norse
						condition sensor (QLT) is received.		v v z	oltage between 9 V and 15 / femperature condition:							power reduction: off - CC message: none				
NEO management from the of sending sectors	The discussion function markets the BPD					Potential problem source(s): - Problem with BSD wire between DME and oil quality	The diagnostic fault code is logged when the fault	- - -	None Time condition: None			BSD CAN (QLT) Indicate relevant measured		Problem with BSD wire between DME and of models are and of	Check wiring harmess between DME and oil quality sensor (QLT), meteors of works sensor (QTT)	US emissions warning lamp: off US electronic engine power motorizes off	Only relevant for Elits, as it is only vehicle with a QLT Quality-Level-Temperature unit, all other which encountered with a TVEMP. Research of	Possible apparent symptoms:	Providence and the	
BN2000 0x3446 13382 missing	message from the oil level sensor (QLT).	P1521	Engine OI Quality Sensor Communication Error	Engine OI Quality Sensor	Communication	- Defective DME	than 2 min.	Terminal 15 -	none /oltage condition: Othogen electrical system	- None	- None NO	test data block!	N	- Defective DME	- replace DME	- CC message: none lamp: off	level sensor!	interval	None	None
						The fault is recognized when the engine oil level falls		v v	oltage between 9 V and 15 / Temperature condition:							power reduction: off - CC message: on				
MEVD17.2-	The discretic further much the sector					below 5 liters. Potential problem source(s)	The diagnostic fault code is logged when a Vitt at in		none Time condition: None Other conditions						- Ton un annine*	- US emissions warning lamp: off - US electronic engine power reductions off		Possible arrowed summer	Break-town and the	
BN2000 0x3447 13383 Engine oil level: Too low	level.	P250F	Engine OI Level Too Low	Engine Oil Level	Level	The fault is recognized when the oil convition server	recognized 50 times.	none -	Ergine CN follage condition: Onboard electrical soutane	- None	-None NO	none	N	- Engine operated with oil level too low	- Check of level	- CC message: on	Date	CC message	None	Nerse
						reports a fault over the bus. Potential problem source(x):			oltage between 9 V and 15 / remperature condition:							power reduction: off - CC message: none				
MEVD17.2-	The diagonatic function must be along the					Defect in plags or wiring harness between oil condition sensor and DME Oil condition sensor	This fault is logged in the control revelue's fault		none Ime condition: None Other conditions					- Defect in plugs or wining herness between oil condition wares and PANI	- Check plugs and wiring harness between oil	- US emissions warning lamp: off - US electronic engine power reduction: c ^{al}		Possible apparent symptoms: Adjustation (restortion) of against a series	Break-town and the	
BN2000 0x3449 13385 Oil condition sensor, electrical: maifunction	the oil condition sensor for electrical faults.	P252A	Engine OI Quality Sensor Circuit	Engine Oil Quality Sensor	Electrical	defective The fault is recognized when the signal voltage extrants	memory immediately.	Terminal 15 -	none /otage condition: Onboard electrical system	- None	- Norma NCO	none	N	Ol condition sensor defective	- Replace oil condition sensor	- CC message: none lamp: off - ECE electronic engine	none	interval	None	Norm
						3.6 V. Potential problem source(s)		2 7 7	oltage between 9 V and 15							power reduction: off - CC message: none - IIS amount				
NEVD17.2- Engine oil temperature sensor, electrical:	The diagnostic function monitors the signal from the engine oil temperature sensor for electrical					- Leneox in plugs or wiring hamess between engine oil femperature sensor and DME - Defective engine oil	The diagnostic fault code is logged when the fault remains present for longer	1	Time condition: None Other conditions:					- Defect in plugs or wiring harness between engine oil temperature sensor and DME	Check plugs and wiring harmess between engine oil temperature sensor and DME	- us willaters wirning lamp: off - US electronic engine power reduction: off		Possible apparent symptoms: Adaptation (reduction) of engine oil service	Breakdown notice:	
BN2000 0x344C 13388 malfunction MEV017.2 BN2000 0x344E 13390 MEV017.7	malfunctions.	P0195	Engine Oil Temperature Sensor 'W' Circuit			temperature sensor	than 2 min.	Terminal 15	5008	- None	- None NO	none	N	- Defective engine of temperature sensor	- Replace engine oil temperature sensor	- CC message: none	none	interval	None	Norse
BN2000 0x344F 13391	1	1	1	1	1		1			1	I	1			1	1	1	1		

NEVOT7.2. ENGCOD 0.546A 13450	Osenschriste mig hernoste, mechaniset jummet ogen	The disputitic function motion that is an coster temperature at the angle-of discharge connection.	P0128	Coster Thermote Coster Terrestore Brier Terrendel Registery Terrestore	Thermodul	Functional Check	A fact is sergeneric device the angress impacts to balance 50° colors in the set that the service of the set that the service of the set that the set the set the set the set the set the set the set the set the set the set the set the set the set the set the set the set the set	rone	Oragen extension of the second	- No - 1000	Y	- Defect in wing harmase - Owendandic mag Teamnolait defective	- Overk wing harness - Replace may controlled thermostat	ECE ensistors warring lang: on ECE declarate englise for the englise Comessage: on Comessage: on Comessage: on Comessage: non Comes	Mit, ON in LS writing only	Possible apparent symptome - The output of the training hand may be reduced.	Boalstow robus r Nova	When the angine is heated from ordered corrors, such as an availary heater, diagnose empris can result.
MEV017.2- BNQ000 0x046E 13454	. Map Permutati activation Steel circuit to B+	The diagnostic function monitors activation of the accession may be monitor.	P0559	Themostal Huster Coded Creat High	Therrestat	Entital	Ihe other circlin's diagnostic function. Professional problem scarce(b) - obseried marking homessa takenees DBE and program moti presentation and the scarce interviewide/by motion of the scarce of the scarce interviewide/by the other circlin's diagnostic function.	1016	V	STEUERI, 977, STEUERI, 9602, 977, STEUERI, 9602, 977, STATUS 977, STATUS 977,	v	Defect in wining harness between DME and program risk hermotell	Oheck wing hamess between DME and map- controlled humaniat Pagiace may controlled humaniat Oheck DME Oheck DME	- CC massaga: none -US emissions warning larg: off -US eluctoric ergine power reduction: off -CC massaga: none larg: off -ECE eluctoric ergine power reduction: on -CC massaga: none -UC massaga: none -UC massaga: none -UC massaga: none	1578	Peable apparent symptoms: US MC on, custome proceeds to service Bollfy.	breakdown notice: Moree	Nos
MEVD17.25 BNGCC0 0x348F 13435	Map Thermoetal, activation: Short circuit to earth	The diagnostic function monitors ectivation of the program map thermostat.	P0558	Thermaint Haster Costord Orcal Low	Therrostat	Excital	Dested any systems The fault is logged in the these DBE and program may Theready task may Theready task may theready task may theready task the data t	note	- None confident. - None Other confidents - Norme - Norme Voltage confident - Norme - Norme Voltage confident - Norme college based and to A and to - Norme - Norme - Norme - Norme - N	STELERIL, KPT, STELERIL, KPT, STATUS, STATUS, KPT, STATUS, STATUS, STAT	N	Defect in wing harness between DME and program rap hermotel	Oteck wing hamess between DME and map- controlled hermatult Regione motion Regione controls of hermatult Regione DME Oteck wing hamess between DME and map-	- US emission warring lange: off - US electoric engine power reductoric off - <u>CC massage: none</u> lange: off - ECE electoric engine power reduction: on - <u>CC massage: none</u> - <u>CC massage: none</u> - <u>US emission warring</u> lange: off	n578	Posable apparent symptoms: US: ML on, custome proceeds to service stactory.	Breakdown rotice: Norw	Norm
MEV0172- BNDCO 0x3480 13456 BNDCO 0x3443 13475 BNDCO 0x3443 13475 BNDCO 0x3443 13475 BNDCO 0x3443 13475 BNDCO 0x3443 13481 BNDCO 0x3443 13481 BNDCO 0x3443 13481 BNDCO 0x3443 13481 BNDCO 0x3443 13451 BNDCO 0x3443 13451	May thermostat, activation: Line disconnection	The diagnostic function monitors activation of the program map thermostat.	P0507	Themostal Healer Control Circuit/Open	Thermostat	Electrical	James DMI ind program map thermodule 		Cherrondines - Rene - R	STUERS, DOL, VY, Will Johnson upper	N	Defect in winty hermass between DAE and program map hermatist	- Replace resolution for interview - Replace reporting the Provided Protocol and Provided Protocol and Provided Protocol and Provided Protocol and	- OS esconte erges poser reductor of - CC message: none	n2re	reade apparent projects. US MC on called a service Bollity.	Braikton rotos Nora	None
BN2000 0x34AE 13456 MEV0172 BN2000 0x34AF 13457 MEVD17_2 BN2000 0x3520 13000	Me speed control: Engine speed too high	The dispositic function monitors the site append when the engine is assimiced in correct operating	Pasco -	Ide Control System R5M Higher Than Expected	Sile Speed Control	1014	Be and an angle sevel exceeds the specific life speci	1016	Other of decical pyter Other of decical pyter Other of the other of the other of the other othe	rangia on dura com	N	Collatinal fault from deflective throttle valve - Leak in a vinduction risc between throttle valve ard engine	 If fulls related to the threthe valve have been logged, reput these first Otek for training air-induction tract between threthe valve and angine 	Lang: on - ECE electronic engles powr reduction: on - US entitation warning lang: of - US electronic engine power reduction: of - CC message: rome	రక లాగ్గ	Possible apparent symptoms: - Let speet too hyp.	Breaktown rotice: Nore	Note
MEVD17.2- BN2000 0x3521 13691	Ide speed control. Engine speed too low	The dispetitic function monitors the site speed when the angles is warmed to normal operating temperatures.	P0506	Ide Control System RPM Lover Then Expected	Idle Speed Control	192M	The actual till speed fails before the spectral data speed by proc. Buto 100 Protecting proc. Buto 100 Protecting proc. Buto 100 defaults in the speed state of the speed accounts the speced to all	Date	Observed interceit a plane orbit optimization orbit optimization orbit orbit optimization orbit orbit optimization orbit optimizatio orbit optimizatio orbit optimization orbit optimiza	1999 IN 1999 - 1999	N	- Collained fault from defective threater valve - Leak in as induction much between threater white and angine	 If suits which is the Dirothe valve have been togget, reper them fort - Diroth for label an environment to between Dirothe valve and engine 	Lang: on = ECE electronic engine power reduction: con - CC message: on - US ensistant warring lang: of - US electronic engine power reduction: of - <u>CC message: once</u> Lang: on - <u>ECE</u> electronic engine cross relations of	US only	Possible apparent symptome - In achieve cases the engine may stell	Breakdown notice: NStra	Non
MEVD17.2- BN2000 0x3534 13694	lde speed control, cold start: Engine speed too high	The dispetitic function moniton the late speed during the catelying converter's exemute phase.	P150	Cold Start Idle Air Control System 1994 Higher Than Expected (Servit 1)	Mile Speed Control	Cold Start RPM	Append of graft, and out of graft and appendix static stat	none	V Improvata continent and an interpretation continent interpretation co	nya nya	N	Collained fault from delective throble valve Leak in air-induction tract between throble valve and engine	If furths related to the throttle valve have been togget, repart these first - Check for takes in an induction takes to the Brottle valve and engine	LOT weakage: on Correspondences Correspondences LUS electronic engine power reduction: of Correspondences Lots Lot	US only.	Possible apparent symptoms: - idle speed too high	Breakdown notice Norw	Nice
MEVD17.2- BN2000 0x3325 13605	Idle speed control, cold start: Engine speed too	The diagnostic function monitors the life speed during the catalytic converter's werrrup phase.	P1561	Cold Start Sife Ar Control System 1974 Lower Than Expected (Bark 1)	Mile Speed Control	Cold Start RPM	Planting problem source(s) - California fails from decision forms varies - Database in horizon varies - Database in horizo	1016	None There confidence Participation Determinations Participation Participation Constraint - None - None Voltage conditions - None - None None - None - None	1018 1018	N	Collateral fault from defective throttle valve Laak in ai-induction tract batteau hhottle valve and engine	- If furth related to the throttle valve have been logged, reput these first - Deck for kalas an al-indicion total between throttle valve and ergine	- US entiations warring may: off - US electors: engine power reduction: off - CC massage: none lang: off - ECE electoric engine power reduction: off - CC massage: none - US entiations warring lang: off	US any	Possbie apparent symptom: - In externe cases the engine may stal.	Envaldoren notoce Nora Breakdoren notoce	None
MEVD17.2- BNGCC0 0x3528 13006	Mentoring ergine troyal initiation: Maiorum permitter nominut roya is continuously exceeded	The diagnostic function monitors the maximum approved operated torque.					Potentia protein success). The fault is logged in the	none	- Norm -	NO 1009	Y	- DAE defective	- Reprogram DME - Replace DME	- US electonic ergns power reduction: of - CC massage: none - ECE electonic angine power reduction: of - CC massage: on - US electonic angine power reduction: of - CC massage: on - US electonic angine power - US electonic angine power	nore	Possible apparent symptoms: - Reduction regime (trey-born mode) - Engine pan initiation - Engine pan initiation - Possible apparent symptoms: When accelerato pacel all depressed at lide the	 It is possible to certain driving the validity, burgenary movement should not be interpleted away to be validation is angles adjust. 	Nora
MEV017.2- BN2000 0x3529 13809 MEV017.2- BN2000 0x352A 13810	Engine-speed limitation with attacomy whick- isfle speed too high for too long	The depositic function monton the engine for eventuating while the vehicle is stationery.					-Acau (drive rove angles control module) that which which is initiatively memory investigately. The degreent fault code is logged when the writige value of ECU langerature + 400 memory investigation + 400 memory - 400	Terminal 15	- Init aged yeare than concerning the second year than concerning the second year than concerning the second year of the second	90 OI	Y	Abuse (driver rows engine while which is shatpnary)	- Clast ECU fault memory. No further measures necessary.	reduction: on - CC message: on - CC message: on - ECE electronic angine power reduction: of - CC message: on - US emissions warring lams: off	nore	engine speed is limited once the indicated time period elignes	Breakdown notice:	Nices
MEV017.2- BN2000 0x3584 13700	DME, internal fault, interior-temperature sensor: value too high	The diagnostic function monitors control module temperature for visibilition of an upper limit.	P0534	Control Module Internal Temperature 'X Too High	ЕСИЛТСИ	internal Temperature	Potential poblem source(b) - 0.555 defective - 0.	Terminal 15	-None Ordina: -None -Non	ND one	Ni	-DME defective	Only replace the DME if the fault remains present continuously of the fault thequency is grader than 3 Only replace the DME if the fault remains	US electoric ergins power reduction: of - CC message: on - ECE electoric engine power reduction: off - CC message: on - US emissions warring lamp: off - US electoric engine power	nore	Possible apparent symptoms: - Loss of power	Breakdown notice:	- 1036
MEVD17.2- BN2000 0x3585 13701 MEVD17.2- BN2000 0x3585 13702	DME, internal fault, interocivempendum sensor: valives too tow	The diagnositic function monitors control module temperature for violation of a lower limit. The diagnositic function monitors the interior temperature of the DMR.	P165A	PCMECMTOM Internet Temperature Too Low	ECMTCM	Internel Temperature	Determining problem source(s) cotto directive energy investigation The fault in exception when the temperature in the DEE is to high. Cotto combaned control modular is the control modular is	Terminal 15	Other confidence - Home - Home - Home Voltage confidence - Home - Home - Home Voltage confidence - Home - Home - Home - Home confidence - Home - Home - Home - Prove - Home - Home - Home - Home	ND 000	N	- DME defective - DME overheated - Defective DME	- Check E-loos fan as indicated - Check E-loos fan as indicated - Only replace the DME if the fault terrains present continuously or the fault terrains greater duraut han 3	reduction: off - CC message: on - ECC electronic angine power reduction: off - CC message: on - US emissions warring lamp: on - US electronic angine power reduction: on - CC message: on	none	Possible apparent symptoms: - Loss of power Possible apparent symptoms: - Loss of power	Breakdown rotice: - 00% Breakdown rotice: - 00%	- rone - rone
MEVD17.2- BN2000 0x3880 14000	DME, internal fault, activation Valvebornic methodos	The diagnostic function monitors the current flow through the Valvetonic actuator motor when the driver actual is settiched off.	Pices	Internal Control Modulai Error; Cantesi Cirsuit W/T	ECM	Votestanis, WVII. Canital	The fault is logged in the ECU fault memory when the comment down in the down recommendation is the down determined. Public down and the down and the determined. - Defending strates - Defending strates	Terrinal 15	Voltage condition: - Octomet electrical raylem moltage latekteam TV and 36 - Prompending condition: - Nome - Nome - Nome - SV - Nome - Nome - SV - Nome -	N28 109	26	- Defective wirtig hameas - Defective DME	- Check witing harness between Valvetoric actuator motor and DME Resides DME	- ECE emissions warning large: off - ECE electronic angine power reduction: on - CC message: on MY11 US: - US electronic engine power reduction: on - ECE emissions warning - ECE emissions warning	DODE.	Possbie apparent symptoms: - Braikdown in scharse carea	Envektoren notice: y 	The fault occurs while the Valvetonic units droke is not at full extension them the engine if said and fail to restart. This is because the Valvetonic driver could is descrived and the Valvetonic unit cannot return to minimum which it the fails docum at maximum shoke, unresticied threfield operation is possible.
MEVD17.2- BN2000 0x3885 14005	DARE, internal fault. Dates EE/PSCM faulty								Voltage condition: - Onceard electrical system voltage between 9 V and 15 V Temperature condition: - None Time condition:					lamp: off - ECE electronic engine power reduction: off - CC message: none				
		The diagnostic function monitors the EEPROM emulation's "delete sector."	POS2F	Internal Control Module EEPROM Error	ECMITON	EEPROM	The fault is recognized by the set-diagnosis. Potential problem success; - DME defective memory immediately.	nate	- None Other conditions: - 5009 - None - None Volkey condition: - Onboard electrical system	NO	N	- DME defective	- Only replace the DNE if the fault remains present continuously or if the fault hequency is greater than 3	US entactions warring lamp: on - US effectionic engine power reduction: off - <u>CCmessage: on</u> lamp: on - ECE effectionic engine	The fault position indicates a defective D-fash, or the D-fash service life has elapsed (30,000 write/defets cycles).	Possible apparent symptoms: Engine can fail to start when fault is active (electonic immobilizer).	Breakdown notice: - rccne	- 5008
MEVD17.2- BN2000 0x3585 14008	Dieg, internet fauit Mandaring module fauit	The dagraph Lucion monitors the EEPROM embloits "Make and/or "The diagnatic function monitors the DME's internal register modules.	P052	Hand Costol Motiva EEPICAl France	EONTON	EEPSOM Possear	The Band Anospectra Medical Anospectra Medical Anospectra CME difficulture and Anospectra Medical Anospectra	Terninal 15	Norm State - Norm - Norm State - Norm - Norm Object electrical system State - Norm - Norm Terme montem - Norm Terme montem - Norm Norm - Norm Norm Norm - Norm Norm Norm - Norm Norm Norm - Norm	NC 1019	N	. DNE deletos . DNE deletos	Only replace the DME if the fault remains present continuously or 71% fault to the present continuously or 71% fault to the present continuously or 71% fault the purce is grader than 3.	US where the average of the second seco	The facil position indicates a detective O Asah, or the D Asah annote this has elegand (2020) write/ablos coreal.	Pasible append synthem Engre on fail is stat sha fail is othe desclose smallers Pasible statemed synthem - task of para - Speed buildow	Breakbarn tolker - 2005 - 2005 - 10 ap peakbarn tolker - 10 ap peakbar to contran druck plan which, bid peakbar werver should not be ablemping - mengit in studies in segmen should	- PDDB A ferminal stallas availab maat las considents before this fauit can be stated.
MCV017.2 802000 0.0888 14010 MCV017.2 802000 0.0888 14011	DE rend kat blockny natik ket DE, sknel kat ostolog skjat salveda	The disputition function revolves the EPPOM emolithetic function and/or a the DME's ablend revolve methods to be DME's ablend revolve methods. The disputition function methods the showed Add and MSA when in the DSME	P007	Nama Casta Mala EFENSI Ere Nama Casta Mala Methong Ansane Petrometer Nama Casta Mala Methodo Ere	504104 504104 504	EPROM Pressor Pressor	The basis sequences by the second sequences of the second sequences of the second sequences of the second sequences are sequences as a sequence sequence sequence sequences as a sequences as a sequence sequences as a sequences	Terroral 15	Norm Any Array Ar	90 mm		- Old adustin - Old adustin - Old adustin	Ory replace the DHE finds tail meaning amount of the second of the baseline of additional additional second of the basel means parted entertainty of the basel means to parted entertainty of the basel means to parted entertainty of the basel means to parted entertainty of the basel means to	- Of an action surray large of the second se	The their gradies includes a software O Aust, or if D Aust, and the software of O.00 weter and the software of O.00 	Paulia agrees ryngtom Pope and it are she had a site Monor workford 	Baukiten nitez. - 2025 - 2025 - 10 passites nitez - 10 passites nite	- 2019 A serveral status switch must be conducted before this fact and an two distributions and a switch must be conducted before this band can be district
MCV017.3 BOODO 0.5200 14010 MCV017.5 0.5200 14011 MCV017.5 0.5200 14012	. DBE second ball blockering motion ball DBE selected ball weaking separate methodose DBEs selected ball weaking separate bally geneticitizeses communication	The disputitive function moders for EDPOM embilition bandom excellence of the second second system moders for ADEPs second system moders. The ADEPs second system moders for ADEPs second system moders for ADEPs second system moders for ADEPs ADE and TACK way in free DDEP ADE and TACK way in free DDE.	P955	Marriel Cardial Marials REFERENT Enter Marriel Cardial Marials Marialized Enter Patienteries Marriel Cardial Marialized Enter Marriel Cardial Marialized Enter Communication Enter	E04104 E04104 E04	EPPICM Presser Presser Westing	The last is suggest if here reader suggest if here reader suggest if here reader suggest if here readers and suggest if here readers	Tennal 13	Name And the second se	0 mm 0 mm 0 mm 0 mm		. Oté décise	Orly replice the DRE fink tail meaning ment colonia of or find tail to point you applied to the DRE find	- de ante os surres la construcción de la construcción - Os delacións de la construcción - Construcción de la construcción - Construcción de la construcción - Construcción de la construcción - Construcción de la construcción - Con	The test genetics instruction as deficient to flags, or of to D and more tifts the adjusted (20,00 underdation control notes	Paulois agorer rymptom: Description: D	Buildian roles: - 1925 Buildian roles: - 19 parties for ortica dring fe welch, hit parties for ortica dring fe welch, hit parties for the ortical dring the ortical - serge to solidari to organ roles: 	50% A terminal paids such much to conducted before the such can be detected before the such can be detected before the such much to conducted before the such much to conduct
MCV0713 0.5388 1.001 MCV0715 0.5388 1.001 MCV0715 0.5388 1.001 MCV0715 0.5388 1.001 MCV0715 0.5386 1.001	DE, new lat techniquate ted DE, new lat working out allows DE, new lat working out allows DE, new lat working out and allows DE, new lat working out out out out out	The disposite function reactions the (EPOM) emotion backets and emotion to a solution to the emotion of the solution to the emotion of the solution the disposite function evolution the solution the disposite function the disposite function evolution the solution the disposite function the disposit	P163	James Cartel Maile EFFON Enz Ferrer Cartel Maile Modering Processor Padometric Secret Maile Modeling Processor Bennet Cartel Maile Modeling Env Bennet Cartel Maile Modeling Env Envert	E04704 E04704 E04	FURNER Primeter Welthing Welthing	Have and experiments of the second expe	Son Isona (5 Tenna (5 Tenna (5	Name of the second seco			- Otf alsohe - Otf alsohe - Otf alsohe - Otf alsohe	Ory replace the OBE (the last investing and observed) and observed in the observed in	- de autors surge - de autors surge - de autors de la conserva- - de autors esper sours - de autors esper	The that gradient instructure as deficient to faunt, or of to D and more this that any equipable (2000 underlanded proton).	Paulia agrine (prytem:	Baskitor rote: 	- 2019 American darka santa mud te conductada Indere das santa mud te conductada Inder

							1		1 1		Voltage condition:		T		1		1	lame: on		г – т		
											- Onboard electrical system voltage between 9 V and 15							ECE electronic engine power reduction: on				
								The fault is recognized by			v Temperature condition: - None							- US emissions warning				
		DME, internal fault, electric accelerator pedal						the self-clagnosis.	This fault is logged in the		Time condition: - None						- Only replace the DME if the fault remains	lamp: on - US electronic engine power		Possible apparent symptoms:	Breakdown notice: - It is possible to continue driving the vehicle,	
BN200	0x38C0 14016	6 check	internal status.	P326A	Control Module Montoring Salety Function Allo Converter Error	ECM Monitoring	Safety Function	DME defective	memory immediately.	none	Engine ON - None	- Nc	NO NO	none	Y	DME defective	greater than 3	- CC message: on	none	- Loss or power - Speed limitation	owing to reduction in engine output.	A seminar status sween must be conducted before this fault can be deleted.
											- Onboard electrical system voltage between 9 V and 15							ECE electronic engine power reduction: on				
								The first is exception for			V Temperature condition:							- CC message: on				
								the self-diagnosis.	This fault is logged in the		Time condition: - None						- Only replace the DME if the fault remains	lamp: on - US electronic engine power		Possible apparent symptoms:	Breakdown notice: - It is possible to continue driving the vehicle,	
BN200	2- 0x26C1 14017	DME, internal fault, electric accelerator pedal monitoring: AD converter, test voltage check	The diagnostic function monitors the DME's internal status.	P326A	Control Module Monitoring Safety Function A/D Converter Error	ECM Monitoring	Safety Function	- DME defective	control module's fault memory immediately.	70256	-Engine ON - None	- Nc	sione NO	none (Y	- DME defective	present continuously or if the fault frequency is greater than 3	- CC message: on	0208	- Loss of power - Speed limitation	but passing maneuvers should not be attempted owing to reduction in engine output.	A terminal status switch must be conducted before this fault can be deleted.
											voltage between 9 V and 15 V							ECE electronic engine power reduction: on				
											Temperature condition: - None							- CC message: on				
								the self-diagnosis.	This fault is logged in the		- None Other conditions:						- Only replace the DME if the fault remains	- US emasores warring lamp: on - US electronic engine power		Possible apparent symptoms:	Breakdown notice: - It is possible to continue driving the vehicle,	
MEVD1: BN200	2- 0x36C2 14018	5 DME, internal fault, electric accelerator pedal monitoring: Air quantity adjustment	The diagnostic function monitors the DME's internal status.	P3268	Control Module Monitoring Safety Function Air Flow Adjustment	ECM Monitoring	Safety Function	Potential problem source(x) - DME defective	control module's fault memory immediately.	none	- Engine ON - Engine speed above 1200 - None	- Nc	NO NO) none	Y	- DME defective	present continuously or if the fault frequency is greater than 3	reduction: on - CC message: on	none	- Loss of power - Speed limitation	but passing maneuvers should not be attempted owing to reduction in engine output.	A terminal status switch must be conducted before this fault can be deleted.
								The field is recomined by			Voltage condition: - Onboard electrical system unitary between 9 V and 15							ECE electronic engine				
								the self-diagnosis.			V Temperature condition:						- Check wiring harness between DME and	- CC message: on				
		DMF internal fault: monitoring of signal						Potential problem source(x) Accelerator pedal module defertive	This fault is looned in the		- None Time condition:					. Annalametry marked republic defective	accelerator pedal module - Replace accelerator pedal module - Only replace the DME if the fault remains	US emissions warning lamp: on US electronic envire nover		Drosible arranged summore	Breakdown notice:	
MEVD1 BN200	2- 0x38C3 14019	plausibility, accelerator pedal module or pedal sensor	The diagnostic function monitors the DME's internal status.	POEOD	Internal Control Module Accelerator Pedal Position Performance	ECM	Accelerator Pedal	- Wring harness delective - DME defective	control module's fault memory immediately.	none	Other conditions: - Engine ON - None	- Nc	None NO) none	Y	- Wiring hamess defective - DME defective	present continuously or if the fault frequency is greater than 3	reduction: on - CC message: on	none	- Loss of power - Speed limitation	but passing maneuvers should not be attempted owing to reduction in engine output.	A terminal status switch must be conducted before this fault can be deleted.
											Voltage condition: - Onboard electrical system							lamp: on - ECE electronic engine				
								the self-diagnosis.			V Temperature condition:						- Check wiring harness between DME and	- CC message: on				
								Potential problem source(x) - Crankshaft sensor defertive	This fault is looned in the		- None Time condition:					. Cranishalt senary defective	crankshaft sensor - Replace crankshaft sensor - Only replace DME if the fault remains	US emissions warning lamp: on US electronic envire nonser		Drosible arranged summore	Breakdown notice:	
MEVD1: BN200	2- 0x38C4 14020	DME, internal fault, electric accelerator pedal monitoring: Speed sensor	The diagnostic function monitors the DME's internal status.	P325C	Control Module Monitoring Safety Function Speed Sensor Error	ECM Monitoring	Safety Function	- Wring harness defective - DME defective	control module's fault memory immediately.	none	Other conditions: - Ergine ON - None	- Nc	NO NO	none	Y	Defect in wiring harness OME defective	present continuously or if the fault frequency is greater than 3	reduction: on - CC message: on	none	- Loss of power - Speed limitation	but passing maneuvers should not be attempted oreing to reduction in engine output.	 A terminal status switch must be conducted before this fault can be deleted.
											Voltage condition: - Onboard electrical system							lamp: on - ECE electronic engine				
											Voltage between 9 V and 15 V Temperature condition:							- CC message: on				
								The fault is recognized by the self-diagnosis.	This fact in based		- None Time condition:						- Only mediates the PANE 4 P	- US emissions warning lamp: on		Drashie present source	Breakdown notice:	
MEVD1: BN200	2- 0x38C5 14021	DME, internal fault: Monitoring plausibility of mixture correction factors	The diagnostic function monitors the DME's internal status.	P3237	Control Module Monitoring Fuel Correction Error	ECM Monitoring	Fuel Correction	Potential problem source(s) - DME defective	control module's fault memory immediately.	none	Other conditions: - Engine ON - None	- No	ione NO	none	Y	- DME defective	present continuously or if the fault remains greater than 3	reduction: on - CC message: on	none	- Loss of power - Speed limitation	but passing maneuvers should not be attempted owing to reduction in engine output.	- A terminal status switch must be conducted before this fault can be deleted.
											Voltage condition: - Onboard electrical system							lamp: on - ECE electronic engine				
											voltage between 9 V and 15 V							power reduction: on - CC message: on				
								The fault is recognized by the self-diagnosis.			- None Time condition:							- US emissions warning lamp: on			Breakdown notice:	
MEVD1:	2-	DME, internal fault: Monitoring fuel injection	The diagnostic function monitors the DME's	P15%D	Control Module Monitoring Injection Rate	ECM Monitories	Intertion Bate	Potential problem source(s)	This fault is logged in the control module's fault memory immediately	none	- None Other conditions: - Engine ON		ione are) none	Y	- DME defection	Only replace the DME if the fault remains present continuously or if the fault frequency is creater than 3	US electronic engine power reduction: on CC message	1000	Possible apparent symptoms: - Loss of power - Sneed limitation	It is possible to continue driving the vehicle, but passing maneuvers should not be attempted grains to revivation in access and of the second s	- A terminal status switch must be conducted before this fault can be delated
		Annual State Party I			and and the latent	name and Shiring	age ADOL DATE				Voltage condition: - Onboard electrical system							lamp: on - ECE electronic engine		And a match	Annual of Constant of Magnet Support.	Annual and annual Sector Sectors
											voltage between 9 V and 15 V							power reduction: on - CC message: on				
								The fault is recognized by the self-diaprosis.			- None Time condition:							- US emissions warning lamp: on			Breakdown notice:	
MEVD1	2	DME, internal fault: Monitoring injection-rate	The diagnostic function monitors the DME's	for each	Control Module Monitoring Injection Rate			Potential problem source(s)	This fault is logged in the control module's fault		- None Other conditions:						- Only replace the DME if the fault remains present continuously or if the fault frequency is	- US electronic engine power reduction: on		Possible apparent symptoms: - Loss of power	It is possible to continue driving the vehicle, but passing maneuvers should not be attempted	- A terminal status switch must be conducted
dN200	. us36Lr 14023	arreation sevel 2	+ derroe status	P3430	Litterion Error	L-UM MONITORING	injection Halle	- JAKE Derective	concourty itteractability.	-1274	Voltage condition: - Onboard electrical scalar	- Nc	NO NO	- Inche	[- LIVE genective	greater than 3	lamp: on - ECE electronic - color	none	- upwed intrasion	very w reaction in engine output	www.watteut.can be deleted.
								The fault is recognized by			voltage between 9 V and 15 V							power reduction: on - CC message: on				
								the self-diagnosis. Potential problem source/v>			- None Time condition:						Check wiring hamess between oxygen sensor and DME Replace oxygen sensor	- US emissions warning lamp: on			Breakdown notice:	
MEVD1	2	DME, internal fault: Monitoring of the nominal	The diagnostic function monitors the DME's		Control Market Manifestory Law 1999	ECM Manifest	I contato Dian	Wring harness defective Oxygen sensor defective	This fault is logged in the control module's fault memory immediates	-	- None Other conditions:		in a		*	Wring harness defective Oxygen sensor defective District address	 Only replace the DME if the fault remains present continuously or if the fault frequency is 	- US electronic engine power reduction: on		Possible apparent symptoms: - Loss of power - Record function	 It is possible to continue driving the vehicle, but passing maneuvers should not be attempted region to exclusion to exclusion. 	- A terminal status switch must be conducted
- Contract		with the second second second	E BETTER BURGE.	7320	Construction income increasing cannot a risk anny	Low stations	Cancer Patraticy	- Disc Griecow	initial initializity.	1016	Voltage condition: - Onboard electrical system		100 III.	10.0		- Disc descore	gtatistis	lamp: on - ECE electronic engine	17,18	- open match	Ching to reductor in engine output.	Cercie das nata can de denato.
								The fault is recognized by the self-diagnosis.			voltage between 9 V and 15 V							power reduction: on - CC message: on				
								Potential problem source(x) - Rel-pressure sensor			Temperature condition: - None Time condition:						Check wiring harness between DME and rai- pressure sensor Replace rai-pressure sensor	- US emissions warning lame: on			Breakdown notice:	
MEVD1	2-	DME, internal fault: Plausibility monitoring of the	The diagnostic function monitors the DME's		Control Module Monitoring Fuel Volume			defective - Wiring harness defective	This fault is logged in the control module's fault		- None Other conditions:					Rall-pressure sensor defective Wring harness defective	 Only replace the DME if the fault remains present continuously or if the fault frequency is 	- US electronic engine power reduction: on		Possible apparent symptoms: - Loss of power	 It is possible to continue driving the vehicle, but passing maneuvers should not be attempted 	- A terminal status switch must be conducted
DN2U	14025	5 New York Trans.	FINITIA STATUS.	P320F	Pacadony	ECM Meritang	Fail Volume Control	- LINE: GENECTIVE	memory immediately.	none	Voltage condition: Orbested electronic contents	- 16	verne res	/ none	T	- Divis denistrive	greater man 3	lamp: on	none	- speed imitation	overig to reduction in engine output.	Denore this fault can be deleted.
								The fault is recognized by			voltage between 9 V and 15 V							power reduction: on - CC message: on				
								the self-diagnosis.			Temperature condition: - None Time condition:						- Start by repairing faults related to logged ECU fault memory antises for minture formation	- US emissions warning			Residence entire	
MEVD1	2	DME, internal fault: Torque comparison	The diagnostic function monitors the DME's		Internal Control Module Torque Calculation			- Secondary fault from mixture formation	This fault is logged in the control module's fault		- None Other conditions:					- Secondary fault from mixture formation	 Only replace the DME if the fault remains present continuously or if the fault frequency is 	- US electronic engine power reduction: on		Possible apparent symptoms: - Loss of power	- It is possible to continue driving the vehicle, but passing maneuvers should not be attempted	- A terminal status switch must be conducted
BN200	0x36CA 14026	6 monitoring	internal status.	P0618	Performance	ECM	Torque	- Defective DME	memory immediately.	none	- Engine ON - None Voltage condition:	- No	NO NO	0 none	Y	- Defective DME	greater than 3	- CC message: on lamp: on	none	- Speed limitation	owing to reduction in engine output.	before this fault can be deleted.
								The fault is recognized by			voltage between 9 V and 15 V							 ECE electronic engine power reduction: on CC message: on 				
								the self-diagnosis.			Temperature condition: - None						- Start by repairing faults related to logged ECU	- US emissions warning			Resolution entire.	
MEVD1	2.	DME, internal fault, electric accelerator pedal monitoring: Drive train transmission ratio	The diagnostic function monitors the DME's		Control Module Monitoring Safety Function Ratio			Secondary fault from misture formation	This fault is logged in the control module's fault		- None Other conditions:					- Secondary fault from mixture formation	Only replace the DNE if the fault remains present continuously or if the fault frequency is	- US electronic engine power reduction: on		Possible apparent symptoms: - Loss of power	It is possible to continue driving the vehicle, but passing maneuvers should not be attempted	- A terminal status switch must be conducted
BN200	0+36CB 14027	7 implausible	internal status.	P328C	Error	ECM Monitoring	Safety Function	- Defective DME	memory immediately.	0014	- Engine ON - None Voltage condition:	- Nc	ione NO	D none	Y	- Defective DME	greater than 3	- CC message: on lamp: on	0008	- Speed limitation	owing to reduction in engine output.	before this fault can be deleted.
											voltage between 9 V and 15 V							power reduction: on - CC message: on				
								The fault is recognized by			Temperature condition: - None							- US emissions warning			Resolution entire:	
MEVD1	2		The diagnostic function monitors the DME's		Control Module Monitoring Version Coding			Potential problem source(x)	This fault is logged in the control module's fault		- None Other conditions:						- Only replace the DME if the fault remains present continuously or if the fault frequency is	- US electronic engine power reduction: on		Possible apparent symptoms: - Loss of power	It is possible to continue driving the vehicle, but passing maneuvers should not be attempted	- A terminal status switch must be conducted
BN200	0x36CC 14028	5 DME, internal fault: Monitoring, variant coding	internal status.	P3235	Plausibility	ECM Monitoring	Coding	- DME defective	memory immediately.	none	- Ergine ON - None Voltage condition:	- Nc	NO NO) none	Y	- DME defective	greater than 3	- CC message: on lamp: on	none	- Speed limitation	owing to reduction in engine output.	before this fault can be deleted.
											- Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: on CC message: on				
								The fault is recognized by			Temperature condition: - None							- US emissions warning				
MEVD1	2	DME, internal fault, electric accelerator pedal	The diagnostic function monitors the DME's		Control Module Monitoring Safety Function			Potential problem source(x)	This fault is logged in the control module's fault		- None Other conditions:						- Only replace the DME if the fault remains present continuously or if the fault frequency is	- US electronic engine power reduction: on		Possible apparent symptoms: - Loss of power	It is possible to continue driving the vehicle, but passing maneuvers should not be attempted	- A terminal status switch must be conducted
BN200	0x36CD 14029	9 monitoring: Ignition-timing monitoring	internal status.	P325E	Ignition Timing Error	ECM Monitoring	Safety Function	- DME defective	memory immediately.	none	- Engine ON - None Voltage condition:	- Nc	NO NO) none	Y	- DME defective	greater than 3	- CC message: on lamp: on	none	- Speed limitation	owing to reduction in engine output.	before this fault can be deleted.
											voltage between 9 V and 15 V							- CLE electronic engine power reduction: on - CC message: on				
								The fault is recognized by			Temperature condition: - None							- US emissions warning				
MEVD1	2	DME, internal fault: Switch-off path test by	The diagnostic function monitors the DME's					rre self-diagnosis. Potential problem source/s/t	This fault is logged in the control module's fault		- None Other conditions:						- Only replace the DME if the fault remains present continuously or if the fault frequency is	lamp: on - US electronic engine power reduction: on		Possible apparent symptoms: - Loss of power	dreakdown notice: - It is possible to continue driving the vehicle, but passing maneuvers should not be attempted	- A terminal status switch must be conducted
BN200	0x38CE 14030	0 monitoring module	internal statue.	P326D	Control Module Monitoring Shutdown Path Error	ECM Monitoring	Shuldown Path	- DME defective	memory immediately.	none	- Ergine ON - None Voltage condition:	- Nc	NO NO) none	Y	- DME defective	greater than 3	- CC message: on lamp: on	none	- Speed limitation	owing to reduction in engine output.	before this fault can be deleted.
								1			- Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: on CC measure: on				
								The fault is recognized by			Temperature condition: - None							- US emissions warning				
MFVD+	2	DME, internal fault: Plausibility menihology 6-of	The diagnostic function monitors the DMP+		Control Module Monitoring Firel Vinkeme			the self-diagnosis. Potential problem second-	This fault is logged in the control module's fault		I Ime condition: - None Other conditions:						- Only replace the DME if the fault remains present continuously or if the fault fermaner in	lamp: on - US electronic engine power reduction: ~*		Possible apparent symptoms: - Loss of power	Breakdown notice: - It is possible to continue driving the vehicle, but passing maneuvers should and he attempted	- A terminal abitus switch must be constanted
BN200	0x38CF 14031	1 mass	internal status.	P325F	Plauability	ECM Monitoring	Fuel Volume Control	- DME defective	memory immediately.	none	- Engine ON - None	- Nc	NO NO	none	Y	DME defective	greater than 3	- CC message: on - ECE emissions warning	none	- Speed limitation	owing to reduction in engine output.	before this fault can be deleted.
											Voltage condition: - Onboard electrical system unlines between 0 V and 57							Lamp: off - ECE electronic engine				
								The fault is detected by the			V Temperature condition:							- CC message: none MY11 US:				
								internal calculation algorithms.	This fault is present in the		- None Time condition:						- Only mediane the DMI if the fact over	- US emissions warning lamp: on		Drashie array of		
MEVD13 BN200	2- 0x38D0 14032	DNE, internal fault, monitoring MSC communication Malfunction in module R252/1	The diagnostic function monitors communications within the DME.	P1646	Internal Control Module Communication Error Output Stage	ECM	Output Stage Communication	Potential problem source(s) - DME defective	control module's fault memory immediately.	none	Other conditions: - none - None	- NC	NO NO) none	N	- DME defective	present continuously or if the fault requency is greater than 3	reduction: engine power reduction: off - CC message: on	none	Active fault can cause engine to stall or fail to start.	Breakdown notice: - none	- none
											Voltage condition:							ECE emissions warning lamp: off				
								The fault is recognized when	.		voltage between 9 V and 15 V							- ELLE electronic engine power reduction: off - CC message: none				
								interference occurs in communications between the CPU and a state	.		Temperature condition: - None Time condition:							MY11 US: - US emissions warning				
MEVD1	2	DME, internal fault, monitoring MSC	The diagnostic function monitors		Internal Control Module Communication Error			Potential problem source(x)	This fault is logged in the control module's fault		- None Other conditions:						- Only replace the DNE if the fault remains present continuously or if the fault frequency is	- US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN200 MEVD1 BN200	2 0x38D2 14034 2 0x38D4 14038	e communication Mailunction in module R252/2	communications of DME hardware components.	P1646 P10E5	Output Stage Internal Control Module Error, Control Circuit W/T	ECM	Output Stage Communication Valuation (VVT) Control	- DME defective	memory immediately.	none	- none - None	- Nc	vone NO	2 none	n	- DME defective	greater than 3	- CC message: on	none	- Breakdown in extreme cases	- none	- none
											Voltage condition:							- ECE emissions warning lamp: of				
											voltage between 9 V and 15 V							- CLC electronic engine power reduction: on - CC message: on				
								The fault is recognized by			Temperature condition: - None Time condition:							MY11 US: - US emissions warning larmy on			Brasicinan mi-	
MEVD1	2	DME, internal fault, monitoring 5V sensor	The diagnostic function monitors the sensor		Internal Control Module Volt Supply Voltage 1			Potential problem source(s)	This fault is logged in the control module's fault		- None Other conditions:						- Only replace the DME if the fault remains present continuously or if the fault frequency is	- US electronic engine power reduction: on		Possible apparent symptoms: - Reduced performance	It is possible to continue driving the vehicle, but passing maneuvers should not be attempted	
BN200	0x35E2 14050	u supply: Voltage outside valid range	voltage supply G1.	P16E7	Performance	ECM	Voltage	- DME defective	memory immediately.	Terminal 15	- none - None	- Nc	NO NO	u none	P1	- DME defective	greater than 3	CC message: on ECE emissions warning	none	- Speed limitation	owing to reduction in engine output.	- fone
											Onboard electrical system voltage between 9 V and 15							emp: on - ECE electronic engine power reduction: on				
								The facts in over			V Temperature condition: - None							- CC message: on MY11 US:				
								the self-diagnosis.	This fault is logged in the		Time condition: - None						- Only replace the DME if the fault remains	- US electronic engine power		Possible apparent symptoms:	Breakdown notice: - It is possible to continue driving the vehicle,	
MEVD1 BN200	2- 0x35E3 14051	DME, internal fault, monitoring 5V sensor supply 2: Voltage outside valid range	The diagnostic function monitors the internal sensor supply voltage G2.	P14E3	Internal Control Module Volt Supply Voltage 2 Performance	ECM	Voltage	Potential problem source(s) - DME defective	control module's fault memory immediately.	Terminal 15	Other conditions: - none - None	- Ne	ione NO	none	N	- DME defective	present continuously or if the fault frequency is greater than 3	reduction: on - CC message: on	none	Reduced performance Speed limitation	but passing maneuvers should not be attempted owing to reduction in engine output.	- none
											Voltage condition: - Onboard electrical system							ELE emissions warning lamp: off ECE electronic engine				
											voltage between 9 V and 15 V Temperature condition:							power reduction: on - CC message: on MY11 US-				
								The fault is recognized by the self-diagnosis.	This fact to be a first of the		- None Time condition:							- US emissions warning lamp: on			Breakdown notice:	
MEVD1: BN200	2- 0x35E4 14052	DME, internal fault, monitoring 5V sensor supply 2. 3: Voltage outside valid range	The diagnostic function monitors the internal sensor supply voltage G2.	P16E9	Internal Control Module Volt Supply Voltage 3 Performance	ECM	Voltage	Potential problem source(s) - DME defective	control module's fault memory immediately.	Terminal 15	Other conditions: - none - None	- No	ione NO	none	N	- DME defective	present continuously or if the fault remains greater than 3	reduction: on - CC message: on	none	- Reduced performance - Speed limitation	but passing maneuvers should not be attempted owing to reduction in engine output.	-none
								The fault is recognized when			Voltage condition: - Onboard electrical system							lamp: off - ECE electronic engine				
								a short circuit to positive is present.			voltage between 9 V and 15 V Temperature condition							power reduction: off - CC message: none				
1								Potential problem source(s) - Defect in wiring harness			- None Time condition:					- Defect in wiring harmess between CAS and		- US emissions warning lamp: off				
			ine guardatic function monitors the starter		1		1	Detween CAS and DME	I no taux is logged in the		- mail	1		1	1	DME	- uneck wring harmess between CAS and DME	- US electronic engine power				2 · · · · · · · · · · · · · · · · · · ·

							The fault is recognized when a short circuit to ground is present.			Voltage condition: - Onboard electrical system voltage between 9 V and 15 V								lamp: off - ECE electronic engine power reduction: off - CC message: none				
			The diagnostic function monitors the starter				Potential problem source(s) - Defect in wiring harmess between CAS and DME	This fault is logged in the		Temperature condition: - None Time condition: - None						- Defect in wiring harness between CAS and DME	- Check wing harress between CAS and DM	- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 0	36FB 14075	Starter motor, activation: Short circuit to earth	control-activation wire (Terminal 50) from the DME to the CAS.	P0516	Starter Relay Circuit Low		- CAS defective - DME defective	control module's fault memory immediately.	Terminal 15	Other conditions: - none Voltage condition: - Onboard electrical system	- None	- None	NO	u	N	- CAS defective - DME defective	- Continue fault diagnosis with CAS - Replace DME	eduction: off - CC message: none lamp: off - ECE electronic engine	none	Possible apparent symptoms: Delayed engine start	Breakdown notice: None	None
							Potential problem source(s) - Defect in within the mean of the source(s)			V Temperature condition: - None Time condition:						- Defect in wring harness between CAS and		- CC message: none - US emissions warning lamp: off				
MEVD17.2- BN2000 0	28FC 14076	Stater motor, activation: Line disconnection	The diagnostic function monitors the starter control-activation wite (Terminal 50) from the DME to the CAS.	P0515	Starter Relay Circuit		between CAS and DME - CAS defective - DME defective	This fault is logged in the control module's fault memory immediately.	Terminal 15	None Other conditions: - none	- None	- None	NO	u	N	DME - CAS defective - DME defective	Check wiring harmess between CAS and DMI Continue fault diagnosis with CAS Replace DME	US electronic engine power reduction: off <u>-CC message: none</u>	0208	Possible apparent symptoms: Note	Breakdown notice: None	Nom
							The fault is recognized when the switched status is implausable.			Onboard electrical system voltage between 9 V and 15 V Temperature condition:								ECE electronic engine power reduction: off - CC message: none				
MEVD17.2-			The diagnostic function monitors the switch				Potential problem source(s) - Defect in wring harness to DME main relay	Allow DME to enter sleep		- None Time condition: - None Other conditions:						- Defect in wiring herness to DME main relay	- Check wiring harness to DME main relay	- US emissions warning lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000 0	36FD 14077	DME main relay; implausibly open	atatus of the main DME relay.				- Defective DNE main relay The fault is recognized when a short circuit is present on	mode 3 times	Terminal 15	- none Voltage condition: - Onboard electrical system voltage between 9 V and 15	- None	- None	NO	u	N	- Defective DME main relay	Replace DME main relay	- CC message: none lamp: off - ECE electronic engine power reduction: off	none	- 1000	- none	-1016
							the main relay activation whe. Potential problem source(s):			V Temperature condition: - None Time condition:								- CC message: none - US emissions warning lamp: off				
MEVD17.2- BN2000 0	35FE 14078	DME main relay, activation Short circuit to earth	The diagnostic function monitors the switch status of the main DME relay.				- Defecti n wining harness to DME main relay Defective DME main relay	Allow DME to enter sleep mode 3 times	none	None Other conditions: Shutdown phase Voltage condition:	- None	- None	NO	u	N	Defect in wiring harness to DME main relay Defective DME main relay	Check wiring harness to DME main relay Replace DME main relay	US electronic engine power reduction: off CC message: none lamp: off	none	Possible apparent symptoms: - none	Breakdown notice: - none	- none
							The fault is recognized when power continues to flow to the DME after the DME relay is deactivated.			Onboard electrical system voltage between 9 V and 16 V Temperature condition:								- ECE electronic engine power reduction: off - CC message: on				
MEVD17.2-		PMI web stars instantially deep	The diagnostic function monitors the switch				Potential problem source(s) - Defect in wring harness to DME main relay Defection DME main relay	Allow DME to enter sleep		None Time condition: None Other conditions: Photoene chase	News	News	-			- Defect in wiring harness to DME main relay	- Check wiring harness to DME main relay	- US emissions warning lamp: off - US electronic engine power reductors: off - OS emissions and - OS emissions		Possible apparent symptoms:	Breakdown notice:	
							Electrical system voltage above 16 V			Voltage condition: - Onboard electrical system voltage between 9 V and 15				-			- If an overvoltage fault is logged in the fault	Lamp: on - ECE electoric engine power reduction: on				
							Potential problem source(s): - Systematic tault, for instance, jump start with 24 V	This fault is looped in the		Temperature condition: - None Time condition: - 2 min, after engine start						Systematic fault for instance, iump start with	source is a systematic mathematic in the vehicle (for instance, jump start with 24 V) If the overvoltage fault is logged in the fault memory of only one control module, then the	- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 0	3714 14100	Vehicle voltage, DME main relay: Voltage too high	The diagnostic function monitors the battery voltage relative to an upper limit.	P0587	ECM/PCM Power Relay Control Circuit High	ECM PCM Power Relay	Electrical - Defect in power supply to DNE The fault is recognized when the whiteau in the control scient	control module's fault memory immediately.	none	Other conditions: - Speed > 20 km/h	- None	- 2 min. after engine start	NO	U , 0x5815	N	24 V - Defect in power supply to DME	problem lies with the power supply to this specific control module.	reduction: off - CC massage: none - ECE emissions warning large: off	none	Possible apparent symptoms: - nore	Breakdown notice: None	None
							to the Valvetorici create is best than 2 V.			Onboard electrical system voltage between 9 V and 15 V Termerating continue								ECE electronic engine power reduction: on CC message: on MY111US-				
MEVD17.2-		Valvetronic relay, supply voltage: Short circuit	The diagnostic function monitors the wire from the Valvetroric relay to the DAVE for short				Defect in wiring harmass between Valvetronic relay and DME Valvetronic relay defective	This fault is logged in the control module's fault		- None Time condition: - None Other conditions:						Defect in wiring harmass between Valvetronic relay and DME Valvetronic relay defective	Check wiring harness between Valvetronic relay and DME (U_VVTR) Replace Valvetronic relay	US emissions warning lamp: on US electronic engine power reduction: on		Possible apparent symptoms:	Breakdown notice:	
BN2000 0	3719 14105	to earth	circuita to ground.	P10E3	VVT-Relay Supply Voltage Circuit Low	Valvetronic (VVT) Por	ower Supply Relay - Defective DME the difference between battery voltage and buffer canadion exceeds 7 V.	memory immediately.	Terminal 15	- none Voltage condition: - Onboard electrical system	- None	- None	NO	none	N	- Defective DME	- Replace DME	- CC message: on - ECE emissions warning lamp: of - ECE electronic engine	none	CC message, customer seeks	Norse	None
							Potential problem source(s) - Valvetronic fuse defective - Defect in writing harmess			voltage between 9 V and 15 V Temperature condition: - None						- Valvetronic fuse defective	Inspect Valvetronic fuse Check wiring harness between Valvetronic relay and DME (U_VVTR)	power reduction: on - CC message: on MY11 US: - US emissions warning				
MEVD17.2- BN2000 0	371A 14106	Valvetronic relay, supply voltage: Line disconnection	The diagnostic function monitors the wire from the Valvebonic relay to the DME for open wires, and monitors the control wire to the Valvetonic relay for open wires and shorts to ground.	P1064	WT-Relay Supply Voltage Circuit/Open	Valvetronic (VVT) Por	between Valvetonic relay and DME - Valvetonic relay defective - Valvetonic relay defective - Defective DME	This fault is logged in the control module's fault memory immediately.	Terminal 15	Time condition: - None Other conditions: - none	- None	- None	NO	none	N	Defect in wiring harvess between Valvetronic relay and DME Valvetronic relay defective Defective DME	Check wiring harness between Valvetronic relay and DME (S_VVTR) Replace Valvetronic relay Replace DME	lamp: on - US electronic engine power reduction: on - CC message: on	none	Possible apparent symptoms: CC message, customer seeks	Breakdown notice: Norw	None
							a short circuit to ground is present. Potential problem source(s)			Voltage condition: - Onboard electrical system voltage between 9 V and 15 V								lamp: off - ECE electronic engine power reduction: off - CC message: none				
			The diagnostic function monitors the wire to the				- Wring harness between DME and overload-protection relay for (pation and injection is detective	This fault is logged in the		Temperature condition: - None Time condition: - None						- Wring harness between DME and overload- protection relay for ignition and injection is defective	Check wiring harness between DME and overload-protection relay for ignition and injection Replace overload-protection relay for ignition	- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 0	3718 14107	Relay, ignition and injection systems, activation: Short circuit to earth	overload-protection relay for ignition and injection.				- Defect at (prilon relay - Defective DME a short circuit to positive is present.	control module's fault memory immediately.	Terminal 19	Other conditions: - rone Voltage condition: - Onboard electrical system	- None	- Norm	NO	none	N	Defect at ignition relay Defective DME	and injuction - Replace DME	eduction: off - <u>CC message: none</u> lamp: off - ECE electronic engine	Engine continues to run and starts	Possible apparent symptoms: None	Breakdown notice: None	Norse
							Potential problem source(s) - Wring harness between DME and overbad-protection			voltage between 9 V and 15 V Temperature condition: - None						- Wring harness between DME and overload-	- Check wiring harness between DME and overload-protection relay for ignition and	CC message: none				
MEVD17.2- BN2000 0	371C 14108	Relay, ignition and injection systems, activation: Short circuit to 8+	The diagnostic function monitors the wire to the overload-protection relay for ignition and injection.				relay for ignition and injection is defactive - Defact at ignition relay - Defactive DME	This fault is logged in the control module's fault memory immediately.	Terminal 15	Time condition: - None Other conditions: - none	- None	- Norse	NO	none	N	protection relay for ignition and injection is defective - Defect at ignition relay - Defective DME	injection - Replace overload-protection relay for ignition and injection - Replace DME	lamp: off - US electronic engine power reduction: off - CC message: none	Engine fails to start, or stalls	Possible apparent symptoms: - No longer possible to start engine	Breakdown notice: Norw	None
							The fault is recognized when an open whe is present. Potential problem source(s):			Voltege condition: - Onboard electrical system voltege between 9 V and 15 V								lamp: off - ECE electronic engine power reduction: off - CC message: none				
			The diagnostic function monitors the wire to the				Wring harmess between DME and overload-protection relay for ignition and injustion is detective	This fault is logged in the		Temperature condition: - None Time condition: - None						- Wring harness between DME and overload- protection relay for ignition and injection is defective	Check wiring harness between DME and overload-protection relay for ignition and injection Replace overload-protection relay for ignition	- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 0	a71E 14110	Relay, ignition and injection systems, activation: Line disconnection	overload-protection relay for ignition and injection.				- Defect at (priton relay - Defective DME The fault is recognized when The fault is recognized when The calculation of milage	control module's fault memory immediately.	Terminal 15	Other conditions: - none Voltage condition: - Onboard electrical system	- None	- Norse	NO	none	N	- Defect at ignition relay - Defective DME	and injection - Replace DME	reduction: off - CC massage: none lamp: off - ECE electronic engine	Engine fails to start, or stalls	Possible apparent symptoms: - No longer possible to start engine	Breakdown notice: Norw	None
							remaining in the engine oil service interval uses a default value.			voltage between 9 V and 15 V Temperature condition: - None								power reduction: off - CC message: none - US emissions warning				
MEVD17.2- BN2000 0	G75A 14170	CBS client: Output of substitute value	The diagnostic function monitors calculation of milage remaining in the engine oil service interval.				Potential problem source(s); - Defective oil level sensor - Enor in calculating CBS cata	none	Terminal 15	Time condition: - None Other conditions: - none	- None	- Norse	NO	none	Y	- Defective of level sensor - Error in calculating CBS data	Check operation of oil level sensor Peplace oil level sensor	lamp: off - US electronic engine power reduction: off - CC message: none	none	Possible apparent symptoms: None	Breakdown notice: Take vehicle to service facility utitin nemaining milage and have oil level sensor checked.	The diagnostic fault code can only be deleted once the oil level sensor is again fully operational.
							The fault is recognized when the availability makes implausible jumps within a			Voltage condition: - Onboard electrical system voltage between 9 V and 15 V								lamp: off - ECE electronic engine power reduction: off - CC message: none				
							driving cycle. Potential problem source(s) - Tampering with system			Temperature condition: - None Time condition: - None								- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 0	3758 14171	CBS client: Jump in availability	The diagnostic function monitors whether a jump in the availability has taken place.				- Error in calculating CBS data	none	Terminal 15	Other conditions: - none Voltage condition: - Onboard electrical system	- None	- None	NO	none	Y	Tampening with system Error in calculating CBS data	- Conduct CBS system test	eduction: off - CC message: none lamp: off - ECE electronic engine	none	Possible apparent symptoms: None	Ereakdown notice: None	None
							The fault is detected by the internal calculation algorithms.			voltage between 9 V and 15 V Temperature condition: - None								CC message: none				
MEVD17.2- BN2000 0	375C 14172	DME, protection against tampering: Program or data manipulation detected	The diagnostic function monitors the program status for signs of manipulation.				Potential problem source(s) - Software tampered with - Defective DME	This fault is logged in the control module's fault memory immediately.	Terminal 15	- None Other conditions: - none	- None	- Norse	NO	1076	N	- Software tempered with - Defective DME	Cely replace the DME if the fault remains present continuously or if the fault frequency is greater than 3	- US electronic engine power reduction: of - CC message: none	0006	Possible apparent symptoms: - Breakdown in extreme cases	Breakdown notice: - 5008	- The DME must be reprogrammed before this fault can be deleted.
							the PARSEUGTYP (VEHICLE VERSION) message from the CAS is missing.			Voltage condition: - Onboard electrical system voltage between 9 V and 15 V Torrespondence condition								ECE electoric engine power reduction: off - CC message: on				
MEVD17.2-			The diagnostic function monitors the CAN bus				Potential problem source(s) - Time limit violation transmitting FAMPZEUGTYP (VEHICLE VERSION	This fault is logged in the control module's fault		- None Time condition: - None Other conditions:						Time limit violation transmitting FAHRZEUGTYP (VEHICLE VERSION) missaige from CAS Defective CAS	- Continue fault diagnosis at the following ECU: CAS Register CAS	US emissions warning lamp: off US electronic engine power reduction: off	Occurs when vehicle version message from	Possible apparent symptoms:	Breakdown notice: Avoid casaino maneuvera ao encine power is	
BN2000 0	G75F 14175	Incorrect data record: CAN timeout	between the CAS and DME.				The fault is recognized when	memory immediately.	Terminal 15	- none Voltage condition: - Onboard electrical system unitare between 9 V and 15.	- None	- None	NO	none	N	- Defective DME	- Replace DME	- CC message: on lamp: of - ECE electronic engine	CAS is missing	performance class	reduced	Norm
							mutually compatible. Potential problem source(s) - DME programming error			V Temperature condition: - None Time condition:						- DME programming error	- Continue fault diagnosis at the following ECU:	- CC message: on - US emissions warning lamp: off				
MEVD17.2- BN2000 0	3760 14176	Incorrect data record: Variant monitoring	The diagnostic function monitors the software versions in the CAS and DME.				- DME encoded incorrectly - Defective CAS - Defective DME	This fault is logged in the control module's fault memory immediately.	Terminal 15	None Other conditions: - none Onboard electrical system	- None	- Norse	NO	none	N	DME encoded incorrectly Defective CAS Defective DME	CAS Reprogram and encode DME - Replace CAS - Replace DME - Continue testing with test modules focusing on	US electronic engine power reduction: off - CC message: on lamp: off	The code (uppermiddle/lower performance class) for the CAS does not match the code in the dataset/the code in the DME.	Possible apparent symptoms: - Possible power reduction caused by incorrect performance class	Breakdown notice: Avoid passing maneuvers as engine power is reduced	None
							pump's electronics is >136 "C. A power reduction is entered.			voltage between 9 V and 15 V Temperature condition: - None							problems with the electric fan and the thermostat - Start engine, set heat to maximum output, allow to run for 5 minutes and the check to	ECE electronic engine power reduction: off CC message: on				Observe sequence for fault rectification:
MEVD17.2-		Costant pump, shutdown: internal temperature	The diagnostic function monitors the temperature of the electric water pump's electric water pump's	8490	Coolant Pump Cut-Off, Internal Temperature		Potential problem source(s) - Electric fan defective - Coolant thermosital defective	The diagnostic fault code is logged when the fault remains present for longer	_	Time condition: - None Other conditions: - Engine on - No BSP feat	- None	- Nirma	You (26) (Print)			Electric fan defective Coslant thermostat defective Insufficient coslant	centrine whether the diagnostic fault code has been logged again - If the diagnostic fault code continues to appear despite correct engine temperature sectors the sectors.	US emissions warning lamp: off US electronic engine power reduction: off OC ======		Possible apparent symptoms: CC message if engine becomes too hot, headdrine is entire	Breakdown notice:	If the pump is activated at TMOT-90 °C as baster job the diagnostic fault code 0x3792 or 0x20A208 'Water pump: rotation speed implausible' can be logged, ignore this fault and delete it to Common tests.
aneus 0	rei 14200	too righ	ANGCTOTICS.	1001	100 righ		traufficient cockert The electric water pump deactivates as a result of overvoltage.	vian 1 min.	0016	Onboard electrical system voltage between 9 V and 15 V					·	- resective mass bridg	- Continue test routine with test modules that deal with problems related to voltage in onboan electrical system	amp: of ECE electronic engine power reduction: off	(300H	www.com in extreme cases	NONE	Jeweier n Catty out tester job at TmoH90°C
							Potential problem source(s) - Jump-start with 24 V battery	The diagnostic fault code is		Imperature conditor: None Time condition: None Other granitions						. Appropriate with the Longer	- start engine, set heat to maximum output, allow to run for one minute and the check to determine whether the diagnostic fault code has been logged again . If the diagnostic fault or a	- US emissions warring lamp: of LIPS electronic or		Prophy amount a		Observe sequence for fault rectification: - If the pump is activated at TMOT+90 °C as tester job the diagnostic fault code 0x3792 or 0x204208
MEVD17.2- BN2000 0	3779 14201	Coolant pump, shutdown: Overvoltage detected	The diagnostic function monitors the power- supply voltage to the electric water pump.	P1502	Coolant Pump Cut-Off, Overvoltage		- Problem with electrical system voltage - Defective water pump the electric water pump	remains present for longer than 1 min.	none	- Engine on - No BSD fault - Onboard electrical system	- None	- None	Yes (2F) (558F)	none	N	 - samp-sett tem 24 v battery - Problem with electrical system voltage - Defective water pump 	 In the sweet of the second seco	- Go www.ctorec engine power reduction: of - CC message: on lamp: of	none	 	Breakdown notice: None	vision vision pump: robition speed implausible' can be logged, ignore the fault and delete it → Carry out tester job at Tmot+90°C
							deadlwides in response to recognized seture. Potential problem source(x)			vorsege between 9 V and 15 V Temperature condition: - None Time condition:							- Exprete mentionst shock	- CLC: electronic engine power reduction: off - CC message: on - US emission:				Observe sequence for fault rectification:
MEVD17.2- BN2000	077A 14202	Coolant pump, abutdown: Pumo biorkeri	The diagnostic function monitors the electric water pump for mechanical secure.				- ; sumpt matterionamination in coolant - Incorrect coolant mixture ratio	The diagnostic fault code is logged when the fault remains present for longer than 1 min.	0016	- None Other conditions: - Ergine on - No BSD fault	- None	- Norm	Yes (2F) (508F) Activation at 100%	0008	N	Fowign matter/contamination in coolant Incorrect coolant mixture ratio Orfective water ourso	Check coolant mixture ratio Check water pump and coolant for foreign matter/objects - Beplage water pump	Lamp: off - US electoric engine power reductor: off - CC message: on	ppre	Possible apparent symptoms: CC message if engine becomes too hot, braikdoon in extreme cases	Breakdown notice:	tester job the diagnostic fault code 0x3792 or 0x20AD08 'Water pump: rotation speed Implausible' can be good, ignore this fault and delate it -> Carry ogg tester job at Tmoi×0*/*
			Plant to				The fault is recognized when			Onboard electrical system voltage between 9 V and 16 V Terroershare constitue								ECE electoric engine power reduction: off - CC measure		And a second second second		and an other per at interval to
							«« execute vases partip recognizes cavitation. Potential problem source(s): - Coolart toss. lask in proving	The diagnostic fault code is logged when the fault		None Time condition: None Other conditions:							Check cooling system for leaks Refit and then bleed cooling system as Indicated If the fault continues to appear although the	- US emissions warning lamp: off - US electronic engine power		Possible apparent symptoms:		Observe sequence for fault rectification: - If the pump is activated at TMOTH90 °C as tester job the diagnostic fault code 0x3792 or 0x20AD08 'Water pump: rotation scentral
MEVD17.2- BN2000 0	0778 14203	Coolant pump, operation with reduced output Dry-running detected	The diagnostic function monitors the electric water pump for cavitation.	P15D4	Coolant Pump Dry Run		- Air in the cooling system	remains present for longer than 1 min.	note	Engine on No BSD fault Onboard electrical system without interview	- None	- None	Yes (2F) (608F)	none	N	Coolant loss, leak in cooling system Air in the cooling system	cooling system is bled and no leaks are present replace the water purp. - Continue test routine with test modules that deal with replace	- CC massage on lamp of	none	CC message if engine becomes too hot, breakdown in extreme cases	Breakdown notice: None	implausible' can be logged, ignore this fault and delete it -> Carry out tester job at Tmot-90°C
							Ine mult is recognized when the voltage is <10 V. Potential problem source(s): - Balletor-interest state			V and 15 V Temperature condition: - None Time condition:							- Start engine, set heat to maintum output, allow to use for one minute and the check to determine whether the diagnostic fault owner to	- LCA exchange on - CC message: on - US emissions wereinen				Observe sequence for fault rectification: - If the pump is activated at TAOTHON 10
MEVD17.2- BN2000	377C 14294	Coolant pump, operation with reduced output Undervoltage detected	The diagnostic function monitors the power- supply voltage to the electric water owno.	P15D5	Coolant Pump Undervoltage		- underty creating startist of electrical system voltage is not OK - Defective wining harmens - Defective water carry	The diagnostic fault code is logged when the fault remains present for longer than 1 min.	0016	None Other conditions: Engine on No BSD fault	- None	- Nona	Yes (2F) (608F)	none	<u>, </u>	Battery charge status or electrical system voltage is not OK Oefective writing harness Oefective water pump	If the fault content is used on the state of	- US electronic engine power reduction: off - CC message: on	none	Possible apparent symptoms: CC message if engine becomes too hot, breakdown in extreme cases	Breakdown notice:	base poor is managed at 1950 1950 12 Bit tester job the diagnostic fault code 0x3722 or 0x20AD08 Water pump: rotation speed implausible' can be logged, ignore this fault and delate it → Cjarry out tester lob at Tmot+0***
			and build				the temperature of the water pumps electronics is +133 "C. A power reduction is			Onboard electrical system voltage between 9 V and 15 V Terroery/www.counting							Continue testing with test modules focusing or problems with the electric fan and the thermostat	ECE electronic engine power reduction: off . CC measure				
							enseres. Potential problem sourcea(s) - Electric fan defective - Coolant thermostat	The diagnostic fault code is logged when the fault		None None Other conditions:						Electric fan defective Coslant thermostat defective	allow to run for 5 minutes and the check to determine whether the diagnostic fault code has been logged again - If the diagnostic fault code continues to	- US emissions warning lamp: off - US electronic engine power		Possible apparent symptoms:		Observe sequence for fault rectification: - If the pump is activated at TMOT>90 °C as tester job the diagnostic fault code 0x3792 or 0x20AD05 'Water pump: rotation speed
MEVD17.2- BN2000 0	3770 14205	Coolant pump, operation with reduced output Temperature limit 1 exceeded	The diagnostic function monitors the temperature of the water pump's electronics.	P1506	Coolant Pump Temperature Threshold 1 Exceeded		defective - Insufficient coolant the temperature of the water DEST* Addression in 1***	remains present for longer than 1 min.	none	Engine on No BSD fault Onboard electrical system voltage between ⁶ V and ¹⁴⁸	- None	- None	Yes (2F) (508F)	none	N	- Insufficient coolant - Defective water pump	appear despite correct engine temperature replace the water pump - Continue testing with test modules focusing on problems with the electric few and the	reduction: off - CC message: on lamp: off - ECE electronic erroine	none	CC message if engine becomes too hot, breakdown in extreme cases	Breakdown notice: None	implausible' can be logged, ignore this fault and delate it> Carry out tester job at Tmot-90°C
							"C. A power reduction is entered. Potential problem source(a)			V Temperature condition: - None Time condition:							thermostat - Start engine, set heat to maximum output, allow to run for 5 minutes and the check to determine whether the diagnostic fault code has	power reduction: off - CC message: on - US emissions warning				Observe sequence for fault rectification: - If the pump is activated at TMOT-90 °C as
1 1		Contact rums operation with reduced culture	The discroptic function monitors the		Codart Pump Temperature Threshold 2		Electric fan defective Coolant thermostat defective	The diagnostic fault code is logged when the fault remains present for longer		- None Other conditions:						Electric fan defective Coslant thermostat defective Insufficient coslant	been logged again If the diagnostic fault code continues to annear despite control termentum	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms: CC massana if annine become too hot	Braildnan mlinar	bester job the diagnostic fault code 0x3792 or 0x20AD08 Water pump: robation speed implementation or the lowest increase this fault and

											1 1 1	
								the water pump fails to espond to communications			Voltage condition: - Onboard electrical system	
							fr	om the DME for roughly 15 sec.			voltage between 9 V and 15 V	
							,	Potential problem source/s/c			Temperature condition: - None	
								- Defect in wiring harness between water pump and	The diagnostic fault code is looged when the fault		Time condition: - None	
MEVD17.2-	a-1116 14777 BS	SD message from electric coolant pump:	The diagnostic function monitors BSD bus					DME	remains present for longer	Terminal 18	Other conditions:	Norma
June of		intervy	comunicational and the encode water purity.			1 1		o voltage level is present at		10	Voltage condition:	
								he emergency default input erminal of the water pump.			Onboard electrical system voltage between 9 V and 15	
							,	Advential problem source(s)			V Temperature condition:	
								Defect in wiring harness to water runno	The diagonatic field code is		- None Time contine	
			The diagnostic function monitors the voltage					- Communications problem	logged when the fault		- None	
BN2000 0s	0x3791 14225	votage	level at the electric water pump's emergency backup input terminal.					- Defective water pump	than 1 min.	Terminal 15	- No BSD fault - None -	- None
								the specified and actual			Onboard electrical system Strand Particular Strand Stran	
								electric water pump fail to			Voltage between 9 V and 15 V	
								match.			Temperature condition: - Engine warried to normal	
							7	otential problem source(s)			temp, above 80 °C	
							-	Defect in wring harness to	logged when the fault		- None	
MEVD17.2- BN2000 0x	0x3792 14226 C	Coolant pump, speed deviation: outside tolerance	The diagnostic function monitors the rotation speed of the electric water pump.					water pump - Defective water pump	remains present for longer than 1 min.	none	Other conditions: - Engine warmed to normal - Engine on temperature, more than 80°C -	- None
								1			- Onboard electrical system	
											Voisage between 9 V and 10	
							т	he fault is recognized when			Temperature condition: - None	
								more than 15 gear changes			Time condition:	
								detected.			executions is at least 15 sec.	
							,	otential problem source(s)	This fault is logged in the		- Vehicle speed: > 30 km/h	
BN2000 0-	0x3756 14230	Clutch switch, signal: No signal	with					Catch switch defective	memory immediately.	0016	- No gearante recognision	least 15 sec.
								complex self-diagnosis			Voltage condition:	
								transmitted to the DME via			voltage between 9 V and 15	
								the bourbus.			V Temperature condition	
								Potential problem source(s) Positive wire not correctly			- None Time condition:	
								- Ground not correctly	The diagnostic fault code is logged when the fault		- None Other conditions:	
MEVD17.2- BN2000 0x	0x3840 14400	Alternator, electrical; maifunction	The diagnostic function monitors whether the alternator is supplying power.	P0520	Generator Control Circuit			- Defective regulator	remains present for longer than 1 min.	1016	Engine on Atternator not fully loaded None	- Norm
MEVD17.2- BN2000 0x	0x3841 14401			P0520	Generator Control Circuit							
MEVD17.2- BN2000 0x	0x3842 14402						Ì					
MEVD17.2- BN2000	0/3545 14405						Ì					
								the actual voltage of the				
							°	nboard electrical system is selow the specified voltage.			Voltage condition: - Onboard electrical system	
							,	Potential problem source(s)			vorsige between 9 V and 15 V	
							·	Positive wire not correctly connected to battery			Temperature condition: - None	
								- Ground not correctly connected	The diagnostic fault roots is		Time condition: - None	
MEND 17 S			The diagnostic function monitors the voltage of the onboard electrical system and monitors in the second system.					- Defective battery - Defective revolution	logged when the fault		Other conditions:	
BN2000 0	0x3844 14404 Abs	ternator, plausibility, electrical: Calculated	with the specified alternator voltage.	P325A	Generator Electrical Error Calculated			- Alternator defect	than 6 min.	none	- Aberrator not fully loaded - None -	- None
BN2000 0	0x3845 14405										I	
BN2000 0x	0x3546 14406											
							ta a	Imperature measurement in regulator and transmitter			- Onboard electrical system voltage between 9 V and 15	
							10	the DME via the BSD bus.			V Terrorent ne crotitor	
							1	Potential problem source(s)			- None Time contine	
								- Airfow to alternator	The diagnostic fault code is		- None	
MEVD17.2-			The diagnostic function monitors the alternator					obstructed - Thermal overload from	logged when the fault remains present for longer		- Engine on	
BN2000 0x	0x3545 14405 Alte	lernator, temperature: excess temperature	temperature.	PGASE	Generator Over Temperature			unfavorable driving profile	than 1 min.	none	- Aberrator not fully loaded - None -	- Norse
							,	temperature rises above a			voltage between 9 V and 15	
							·	epecified limit temperature.			Y Temperature condition	
							1	otential problem source(s) - Alternator dirty			- None Time condition:	
								- Airflow to alternator obstructed	The diagnostic fault code is logged when the fault		- None Other conditions:	
MEVD17.2-	Abi	ternator, plauaibility, temperature: Excess	The diagnostic function monitors the alternator	Dana di	Generator Orm Terrent			- Thermal overload from	remains present for longer		- Engine on Alternative and failly inputed	Nime
BN2000 05	U8384C 14412	semperature carculated	simperature.	P32%	Generator Over temperature calculated			The fault is recognized by	than 1 min.	none	- Asstrator not tury loaded - None - Onboard electrical system	- NCRE
								complex self-diagnosis			voltage between 9 V and 15	
								transmitted to the DME via			Temperature condition:	
								the BSD bus.			- None Time condition:	
							1	Atential problem source(s) Alternator drive defective	The diagnostic fault code is logged when the fault		- None Other conditions:	
MEVD17.2- BN2000 01	0/3550 14415	Alternative mechanical mail-pretion	The diagnostic function monitors the alternator's mission spaced	P3223	Generator Mechanical			- Alternator defect (bearing demana)	remains present for longer than 1 min	-	- Engine on Alternative and fully instead	None
	1910	AND MALE INFORMATION CONTRACTOR	CONTROL APPROX.		OTTAL ALL TRUE DA		ĺ	Saturdati			Onboard electrical system	- 194.0
											voltage between 9 V and 15 V	
							Ţ	The fault is recognized when			Temperature condition:	
								sutch the code stored in the	The disconnection for the medicals		Time condition:	
			The diagnostic function monitors the regulator					DME.	logged when the fault		- None Other conditions:	
MEVD17.2- BN2000 0x	0x3854 14420	Alternator, controller: incorrect type	code and compares it with the specified value stored in the DME.	P324E	Generator Regulator Type Implausible		-	Potential problem source(x) Incorrect regulator installed	remains present for longer than 1 min.	none	- Engine on - Abernator not fully loaded - None	- None
											- Onboard electrical system	
											V	
							Ţ	he fault is recognized when he regulator code does not			V V Temperature condition: - None	
							T	The fault is recognized when the regulator code does not satch the code stored in the DME.	The diagnostic fault code is		V V Temperature conditor: -None Time conditor: -None	
MEVD17.2			The discovering function monitors elementary				T	The fault is recognized when the regulator code does not atch the code stored in the DME.	The diagnostic fault code is logged when the fault remains research for borow		V V Temperature conditor: -None Time condition: -None Other conditions: - Fonce on	
MEVD17.2- BN2000 0x	0x3858 14424	Generator: Incorrect type	The diagnostic function monitors alternator's code and compares it with the specified value.	P324A	Generator Type Implausible		T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The fault is recognized when the regulator code does not atch the code stored in the DME. Potential problem source(x): incorrect alternator installed	The diagnostic fault code is logged when the fault remains present for longer than 1 min.	none	V Frequencies of the set of the s	- None
MEVD17.2- BN2000 03	0x3858 14424	Generator: Incorrect type	The diagnostic function monitors attention's code and compares it with the specified value.	P3244	Generator Type Implaueble		т в г - Т	The fault is recognized when the regulator code does not atch the code atored in the DME. Notential problem source(s): Incorrect alternator installed The fault is recognized when multiple DME attempts to	The diagnostic fault code is logged when the fault eventing present for longer than 1 min.	none	V Exemption to data to Vergenaria constance - None These conditions: - Rome - Rome and - Rome and - Animation rout (why loaded - None - - None - None and - None - - None - - - - - - - - - -	- None
MEVD17.2- BN2000 Ds	0x3858 14424	Generator: Incorrect type	The diagnostic function monitors attention's code and compares it with the specified value.	P324A	Generator Type Implausible		т т г т т т т	The fault is recognized when the regulator code does not statch the code stored in the DME. Notestial problem source(ix) incorrect alternator installed The fault is necognized when multiple DME attempts to establish communications with the alternator sensiti-	The diagnostic fault code is logged when the fault evening present for longer Ban 1 min.	none	V Engrenzitate control a del control del c	- Norw
MEVD17.2- BN2000 Dx	0x3555 14424	Generator: incorrect type	The diagnostic function monitors alternator's code and compares it with the specified value.	P224A	Generator Type Implausible		т т - т	The fault is recognized when the regulator code does not atch the code stored in the DME. Votential problem succes(s); incorrect alternator installed the fault is recognized when the fault is recognized when the situation communications with the alternative small unanswered.	The diagnostic fault code is logged when the fault remains present for longer than 1 min.	none	V V V V V V V V V V V V V V V V V V V	- None
MEVD17.2- BN2000 0x	0x3555 14424	Generator Incomed type	The dispositic function monitors alternator's code and compares it with the specified value.	93246	Gererator Type Inspiration		, , , , , , , , , , , , , , , , , , ,	The fault is recognized when the regulator code does not use to be stored in the DML. "Andread problem sourced;" incomes alternator installed the fault as recognized when multiple DML attempts to astabilith communications with the alternator semant unanawered. "Addettal problem source(s);	The diagnostic fault code is logged when the fault remains present for longer than 1 min.	none	V Treprendra condition: - Inter - Int	- Nome
MEVD17.2- BN2000 0- MEVD17.2-	0x3358 14424	Ceneralis: Incomed type	The diagnostic function evolves a direction's code and compares it with the specified value. The diagnostic function monitors	P3244	Generator Type implantite		T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The fault is recognized when the regulator code does not use in a code site of the DML. "Advential problem source(it) incomes alienvator installed the fault as recognized when multiple DML attempts to assistablen communications with the alienvator sensati unanawered." "Advential problem source(it) - Defect in SSD bus line absence DML and alienvator	The diagnostic fault code is logged when the fault remains present to larger than 1 each The diagnostic fault code is logged when the fault remains present to larger	none	Veryanization of the second se	- Norse
MEV017.2- 8N2000 01 MEV017.2- 8N2000 02 MEV017.2-	0x3555 14424	Generator: Income! type	The disputit: Enclose monitors alternator's code and companys it with the specified value. The disputitic function monitors communications between 1016 and dimension	P234A	Generator Type Inglawable		T T T T T T T T T T T T T T T T T T T	The fault is recognized when the regulator code does not which the code and when the DME. DME. Advantage problem source(s) the fault is recognized when multiple DME strengts to establish communications multiple advantage of the standard problem remain unanseemed. Montal problem sensation Object in SED bas time shows DME and advantage Abstrator defect.	The diagnostic fault code is logged when the fault remains present for longer than 1 rem. The diagnostic fault code is logged when the fault remains present to longer than 1 min.	none Terminal 15	Version of the second s	- Norm
MEVD17.2- BN2000 D MEVD17.2- BN2000 D MEVD17.2- BN2000 D	0.2355 14424	Generator transit type	The degrade function moders a develop of order of conjunct 1 with the guidded scale. The degrade function moders communications between CHE and develop	P3244	Gerwater Type implausible		T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	he fault is recognized when he regulater cacks does not batch the code kitned in the DME. "Internet almost installed the fault is recognized when the fault is recognized when the fault is recognized when the advertue of the fault is recognized when the advertue to the unservered. "Valential gooden source(s) - Object in 1850 and Jahemater - Advertue Calked	The diagnostic field code is togged when the fault remains present to Ingore Base 1 rele. The diagnostic field code is togged when the fault remains present for longer Base 1 rele.	none Terrinal 15	Very and the second sec	- Nore
MEV017.2- 8N2000 0- 8N2000 0- 8N2000 0- 8N2000 0- 8N2000 0- 8N2000 0-	0x355 1424	Garenter Homet Ige	The dispositic function monitors alternation code and compares it with the specified state. The disposal's function monitors communications between CME and alternation	P3364	Generator Tigos Inglavable		, , , , ,	The fault is recognized when the regulator code data not the regulator that data with the code later of the code later of the DML. The code later of the the the the DML of the the the the the the margins (DML of the the the the margins) (DML of the the margins) (DML of the the margins) (DML of the the the the the the the the the margins) (DML of the the the margins) (DML of the	The diagnostic fault code is logged when the fault mention present to strong than 1 ers. The diagnostic fault code is logged when the fault remains present to stronge then 1 ers.	none	Version of the second s	- Nore
MEV017.2- BN0000 0- MEV017.2- BN0000 0- BN0000 0- BN0000 0-	0x355 1424	Generator komet type	The disputs fords earlier should be one and compare twith the genetic state. The disputs's fords nonline communities before OHE and density.	P244	Genetie Tys Inginetite		, , , , ,	The fault is recognized when the regulator code data not the regulator of the data fault of the Lock and the	The diagnostic fault code is logged when he fault meaning present for forger than 1 min. The diagnostick fault code is logged when he fault meaning present for forger than 1 min.	rone Terrinal 15	Version of the second s	- Now
MEV017.2- BN2000 D MEV017.2- BN2000 D MEV077.2- BN2000 D BN2000 D	0.0355 14424	Gareate homet tys	The disputit funder meeter allematics and and compared with the gentified value of the disputed funder meeters and meeters before the disputer.	P204.	Generator Type Implaceba			The fault is recognized when the regulator code does not the regulator code does not DML. DML. DML. DML. DML. DML. DML. DML.	The diagnostic fault code is logged when the fault means prover to longer than it codes that it codes The diagnostic fault code is logged when the fault means of the second second second that it codes is based in the fault means of the second second second second second that it codes is based in the fault means of the second secon	none Terreinal 15	Vergenerations of the second s	- None
MEV017.2- BN2000 0- MEV017.2- BN2000 0- BN2000 0- BN2000 0- DN2000 0-	0-350 1424	Gerender homet type	The disputition function excision eleverative code and compares it with the specified within the disputition function memory The disputition function memory communication induces DMI and dismatrix	P344	Greeder Type Inglandla		, , , , , , , , , , , , , , , , , , ,	he fault is recognized when the regulation code dates not be used. The code dates not be used. The code dates of the source of the source of the former of the source of t	The dispetation has not a la superstant in the dis- mense present for larger than 1 ex. The dispetation has had remain present for larger here 1 em.	7055	Versenation of the second seco	- Non
NEV017.2 PR000 0 NEV017.2 NEV07 NEV07 NEV07 NEV07 NEV07 NEV07 NEV07 NEV07 NEV07 NE	0-359 1424 0-3990 1428 Ate 0-3990 14429 0-3990 14431	Generator knomet tyre	The degradic function monitors allowatch and and comprises in with the quartified wate- ment and comprises in with the quartified wate- The degradic functions mentions anternological monitories (OM) and degradic-	P244	Generator Tges Inglandlar		1 	No fast is neographical when he regulater code data in off the regulater code data in off the second second second second to the second second second second to the second	The diagnostic full code is Signed when the full and the second second second second second Based second second second second second based second second second second second second second second sec	none Territori 15	Vergenzensensensensensensensensensensensensense	- Nove
MEVOIT.2. 0 NEVOIT.2. 0 NEVOI	0x355 14224	Generator Hosmed Iga	The aligned blocks multiple aligned and only and compress to the target data was the aligned block of the specified was the aligned block of the specified and communities blocks that aligned block of aligned and the aligned blocks of the statements blocks of the specified and the specified and the specified and the specified and the specified and the specified and the specified and the specified and specified an	9204	Generalis Type Implementar		, , , , , , , , , , , , , ,	he fault is monoprized when he inguited code data in the automatic code dat	The dispetit full code is bigged when the fact means parameters for imper- tant search of the bigged search for the bigged search for the bigged search for the bigged search for the bigged search for the bigged search for the	none Terronal 15	V Array of the second s	- Nova
MEX017.2 0 90000 0 90000 0 90000 0 90000 0 90000 0 90000 0 90000 0	0.335 1422 Abr 5.355 14428 Abr 5.355 14429 Abr 0.355 14431 Abr 0.355 14437	Generator komet (ge ender onnursieken in connursieken	The disputity functor motion elevator elevator and and compares it with the granifier with The disputition function motions commonication tableses: Diff and disputition intermediates function motions for BID base	P24	Greeder Type Ingineelike			No fact is necessrated when he regulate code data net by code of the regulate code data net by code. When it is necessarily and the necessarily of the regulated and the necessarily of the regulated and the fact is necessprised when necessarily of the regulated and the regulated and the regulated and the regulated and the regulated and the regulated and the reginated and the regulated and	The diagnost fail code is gauget shares for longer part i non- logen to some for longer part i non- logen down the fail segmed shares fail code is gauget shares for longer than 1 cm.	Territori 13	Version of the second s	- Nova
MEV017.2 0 99000 0 99000 0 89000 0 99000 0 99000 0 99000 0 99000 0 99000 0	5.505 1423 Are 5.505 1423 Are 5.505 1423 Are 5.505 1423 Are 5.505 1433 Are 5.505 1434 Are 5.505 1444 Are 5.505 1444 Are 5.505 1444 Are 5.505 1444 Are 5.505	Garvater knowel type	The simplefs locks much a simulation of the compared with the specified water more and compared with the specified water The simplefs locks much an additional specified water more much and the specified water specified water the simplefs locks much and the specified water The degrade locks much as the BID base.	P204	Granda Tga Ingkada			Na fad its neografied when the shart is neografied when the shart and set in the shart out	The dispetit fact scale is ingent-shares the larger than t see. The dispetition fact scale is logged when the fact has a scale of the larger than t see.	Terrinal 13	Vergenerations for a vergeneration of the second se	- Non
MEX017.5 95000 0 95000 0 95000 0 95000 0 95000 0 95000 0	0.039 14-0 0.030 14-0 0.030 14-0 0.039	Generator homest type ender, communitation 550 backformschaden field	The deputit funder making allowed in orde and compare a left the gradient water The deputit funder motion and deputits and the second s	P3M	Greeder Type Inginetike			No turb securitizati alla in registra della della con con con turba della con con con con turba della con con con turba della con con con con con con con con	The dispersite fail code is logged when the fail means present to logged any two ben tools and the logged of the fail of the second sec	Tensing 15	Version of the second s	- Nore - Nore - Nore
MEX017.2 0 MEX017.2 0 MEX017	5-000 1403 Ab 5-000 440 Ab 5-000 1403 - 5-000 1403 -	Generativ transmittyre maletic constructives on constructedare 	The disputit funder mesher allematics and and compared with the gentified value of the compared funder meshers and the second se	P204	Generator Type Implementar			No has he segred when the segred when the second second second second to the second second second the	The dispetitive fact case is bygged which the fact means that the bogo dispetitive fact on the back result of the back part i non- part i non- part i non-	Yersof 1	Vergenerations of the second s	- Nove
NEX017.2 0 96000 0 86000 0 86007.2 0 86007.2 0 96007.2 0 96007.2 0 96007.2 0 96000 0 96000 0	5033 1404	Generator homest type ender, comunication en comunication ender 1950 basComministen fault	The disputitive function metalizes allowed on a compared a web the appointed state. The disputative function metalizes and the appointed state and the second state and the secon	P384	Genedia Tati Inskella			Na hat has experient of a second second sec	The disposite fact code is bygged when fact ministry parses for larger that is the second second second that is the second second second second second that is the second second second second second second that is the second s	Tennel S	Version of the second s	-10m
MEX017.2 0 INEX017.2 0 INEX017.2 0 INEX017.2 0 INEX017.2 0 INEX017.2 0 INEX017.2 0 INEX017.2 0	0.009 1404	Generator transmittyre	The disputitive function metalene allowable and and compress in with the quartified water The disputed function metalene enterprocession statement OME and disputes enterprocession statement OME and disputes enterprocession statement of the additional enterprocession statement of the additional enterprocession statement enterprocession statement of the additionaddition statement of the additional enterprocession s	F294	Generator Tges Inglandites			No has a support of the support of t	The dispersite fact case is bygged shares to be determined by the state of the st	tense 1	Version of the second s	-tern
MEQ017.2 0 90000 0 90000 0 90000 0 90000 0 90000 0 90000 0 90000 0	2022 1403	Generator Hosmed Iga exator connunctator no communicator 150 basCommendator Sol	The singularity function membra allowed and and and compress 1 with the specified water The singularity function membra communications submer 10 fill and denotes the singularity function membra The disreparts function membra	P204.	Generalis Type Implementar			ha bah mengan den mengan bah mengan den mengan bah mengan bah mengan mengan bah mengan bah mengan bah mengan mengan bah mengan bah mengan bah mengan bah mengan mengan bah mengan bah mengan bah mengan bah mengan mengan bah mengan bah mengan bah mengan bah mengan bah mengan mengan bah mengan bah mengan bah mengan bah mengan mengan bah mengan bah mengan bah mengan bah mengan bah mengan mengan bah mengan	The dispersite fault code is by paged when the fault means paged when the fault means paged when the fault means the second seco	Von S	V - Series of the second secon	-ben
ысюта возота	2005 1424 -	Generator homest type ender, communication to communication	The diagonality function monitors allowed on one and compress it with the quartiest water the diagonality function monitors common quartiest and the set of the other provided on the set of the set of the set of the Data diagonality. Leasting, monitors the set of the set of the set of the Data diagonality. Leasting, monitors and the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of	P344	Generator Tgas Inglandita			Nuclear surgered will be a surgered will be a subsection of the subsection of	The disposite fuel case is signal science in the fuel mean science is the science is been science in the science is gapped science is the fuel mean science is gapped science is science is sc	Tented II	Version of the second s	New
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ME-0017.2 0 ME-0017.2 0 ME-0017.2 0 ME-0017.2 0 ME-0017.2 0 ME-0017.2 0 ME-0017.2 0 ME-0017.2 0	5355 1434 -	Generator homest type ender communities no communication ESD bacCommunication fault balaness DME and 83	The disputit function metalow elevator's orde and compares a with the apported state. The disputative function metalow commencing to believe to the and attention in the dispute function metalow the MDD base. The dispute function metalow the MDD base. The dispute function metalow the MDD base The dispute function metalow the MDD base. The dispute function metalow the MDD base of the Odd COR.	P394	Greeder Taet Instantist			Nut in surgical del solution in a surgical Nut in surgical Nut in surgical Surgica	The depends fuel case is logged when fuel means to longer that the second sec	Tenind S 	Version of the second s	- New
MEX017.2 0 00000 0 MEX017.2 0 00000 0	5.030 1403 AW 5.000 1403 AW 5.000 1403 - 5.000 1403 - 5.000 1403 - 5.000 1403 -	Generator Incomentinger manders conservativelyses on connectedation 	The departic locks motion allowed and an endored an endored and an endored and an endored an endored and an endored and an endored an endore	P204	Genetite Tge trajsaulte			ha bah mengan dari bah bah mengan dari bah dari berdari bah mengan dari berdari bah mengan dari bah mengan dari bah mengan dari bah mengan dari bah mengan dari bah mengan dari bah mengan dari bah mengan dari dari bah mengan dari bah menga	The dispetal function is a logger of the function of the second s	Lenge 3	Vidga ordina Series and the series of the s	-ten
ME-017.2 0 PR0000 0 ME-017.2	5055 1403 / 5055 1403 / 5055 1403 / 1403 / 5055 1403 / 1403 / 5055 1403 / 1403	Generator transmittator ensiste connucleation no connucleation essentiation foi a connucleation essentiation foi a balance DAE and ess	The deputitive function membre allowed in other and compress 1 with the specified water the deputitive function membres communities balance OHI and demonstration to the deputitive function membres the BED base. The deputitive function membres the BED base.	P204	Generalite Type Implementary			Nuch neurona de la construcción	The depends full cale is being of she had a management to improve that is a second she was a second she that is a second she was a second she be to be be to be to be be to be to be to be be to be to be to be be to be to be to be to be to be to be be to be to	Verse 1	Vergenerations Veral Vergenerations Vergeneratio	-len
MEXOT2 0 MEXOT2 0 MEXOT2 0 MEXOT2 0 MEXOT2 0 MEXOT2 0 MEXOT2 0 MEXOT2 0 MEXOT2 0	0.035 1434	Generativ transmittyre mater, communication on commenciation 	The disputit funder motion allowed with and and compare 1 with the quartiest water and and compare 1 with the quartiest water and the second secon	P394.	Generator Tges Inglandites			ha bah mengan ang ang ang ang ang ang ang ang ang	The dispersite fact case is by the set of th	Jona 5	Vergenerations of the second s	-hew
46:0172 0 96000 0 46:0172 0 96000 0 90000 0 90000000000	0.000 1403	Generator Internet lige	The singularity function munitive allowards and and compress 1 with the appendix function munitive approach function munitive munitite mun	P204	Generalis Type Implementari			ha bah mengan den mengan bah mengan den mengan bah mengan bah mengan mengan bah mengan bah mengan bah mengan mengan bah mengan bah mengan bah mengan mengan bah mengan bah mengan mengan bah mengan bah	The depends full code a gapped when the fact means part of longer test 1 means test 1 means tes	Toni S	Vergenerations of the second s	- 10m
месота месот	0.005 1404	Carenter transmittyre exades untimutation to communication ESD hard/communication tool ESD hard/communication	The disputit function monitors allowed as an end compared to the the quarter of the second se		Generator Tges Inglandites			he hat he mere here here here here here here h	The dispetation fact cache is bigged when the fact mean of the second	head is	Version of the sector of the s	- Yeng
MEX017.2 0 00000 0 NEX017.2 0 NEX077.2 0 NEX07.2	2022 1423 /M 2020 /M 2010 /M 2010 /M 2010 /M 2010 /M 2010 /M 2010 /M 2010 /M 2010 /M 20 /M 200 /M 20 /M 200 /M 20 /M 200 /M 20 /M 20	Ganantie konnecksjon menter generalekter en ommerkeljen 1950 backontraction fast hackonsectenten fast balenen Ditte and 195	The disputit locks methor already one are compress in with the gentified uses the disputit locks method terministics locks to USE of a dismatrix terministics locks and USE of a dismatrix terministics locks and the disputition of the dismatrix The disputit locks method and the Microsoft locks and the USE ODE.	P204	Granda Tge Inglandia			hashin baran san	The dispersite fuel code is bygget sheet fuel and mean part of the longer part of an part of an p	Tonia 1	Vergenerations of the second s	- 10m
KE(0)17.2 0 KE(0)17.	5.939 14.04	Cerester konnettyr	The disputitive function metalene allowed of and and compared to the the specified water and the compared to the specified water and the specific to the specified water and the specific to the specific to the specific to the specific tot specific to the specifi		Generator Tges Inglandlar				The dispersite fact case is signal science in the last mean science	tener 1	Verselation of the second seco	- Sera
MEX017.2 0 00000 0 MEX017.2	2:022 1423	Garvater knowel lyse ender connectation to connectation SSI bacControlitation fast bacControlitation ba	The disputit locks motion also also and the approximation of the second	P204	Greede Tge Inplandes			hashin barangan der motor and senten	The degrads full calls and a grad when the large start for the large start of the large s	Une S	Vergenerations of the second s	- 10m
месотть о метро возото во возото во во возото возото во во во во во во во во во во во во во	5:353 1404	Generator Instructions ensiste communication no communication ensiste communication faut hardCommunication faut hardCommunication faut faut	The disputitive function metalene allowed of center and compares it with the specified water and and compares it with the specified water and the specified sectors and the specified water and the specified sectors and the specified water and the specified sectors and the specified sectors and the specifie	P284	Generator Tges Implanation			hut has supported on the has supported on the has been apported on the	The dispersite fuel case is by good even to fail the set of the se	Versid S	Version of the section of the sectio	- 10m
MEX0172 0 00000 0 0 00000 0 0 00000 0 0 00000 0 0 00000 0 0 0 00000 0	5.032 1423 Au 5.0352 1423 Au 5.0355 1423 Au 5.0356 1423 Au 5.0357 1433 B01 5.0356 1433 B01 5.0356 1433 B01 5.0356 1435 B01 5.0357 1435 B01 5.0357 1435 B01	Generative Incoment layer	The disputit lender monitor allowaits and and compared with the gentified water and and compared with the gentified water and the second secon	P204					The degrade fuel code is grant when the logged when the logged mean the logged	. 103 . 1099 1 3 . 1099 1 3 . 1099 1 3 . 1099 1 3	Vergenerations of the second s	-bea
ME-00172 0 ME-00172 0 ME-000	0.000 1404	Converter Instructing exactly convertibution to connectante ESS bacConnectantes fait bacConnectantes fait balances DOIE and BS	The disputit function markets allowed and an exception is with the specified water of the s					Nuch and second and se	The depends full code is by part of the full manner provide the full manner p	Versed S Versed S Versed S	Vergenerations of the second s	- 101 w - 101
меско 17.2 		Generativ transmitter	The disputit function monitors allowed and an end compared is with the quartiest water and a grant of the second and a second a second and a second and a second a seco					ha bah sengen dari dari dari dari dari dari dari dari	The dispersite fuel code is by good when the fact means that the boost means that the boost means that the boost means the second means the second me		Vilgamentonia va origonali antipati ant	-hew
LICOTI2 COTI2	0.000 1403 Ju	Caravator Incomed lyse	The deputit locks multi-a level of the specified state of the specific state of the	P264					The depends full cale is a grant of the second seco	Trend 3	Visite Jona Torgeneration of the second of the secon	- 10m
месота месот			The disputit funds motion allowed with a specified water or compare a web the quefield water or compare a web the quefield water or compare a web the quefield water or compare a specific quefield of the quefield water or compare a specific quefield of the quefield of th					balah sengen dari dari dari dari dari dari dari dari	The disposition fact scale is bygged where the fact means the mean sector of the me		Vigation of the section of the secti	- 10m
46:0172 0 960000 0 16:0072 0 1	0.999 4404	Canastra transmit lyss	The disputit locks methor always of the second state of the second	P204					The degrade full code is grad when full a set of the se	104 Lineard 13 	Vision Jone Diregion	- 10m
месота весот		Censets transitives	The disputit function members allowed and an exception is with the quartiest water and an exception is with the quartiest water and an exception of the excepti					balah seperatu aka kala sepera	The dispession function is a signal scheme for function of the second scheme for the sec		Vigacological and a second sec	- Yora
145-0172 950000 0 145-0172 0	2.022 1423 Jas 3.025 1423 Jas 3.026 1427 - 3.026 1427 - 3.026 1427 - 3.026 1427 - 3.026 1427 - 3.026 1427 - 3.027 1421 - 3.028 1428 - 3.029 1424 - 3.029 1424 - 3.029 1424 - 3.029 1424 -	Canadaria Incornel Iga	The disputit locks motion also also and a second se	P204					The degrade full code is grade of the full c	Une di S	Vergenerations of the second s	-len
KEO(17.2 0	5.030 1404 0.000 1403 0.000 443 0.000 443 0.000 443 0.000 443 0.000 443 0.000 443 0.000 443 0.000 443 0.000 443 0.000 443 0.000 443 0.000 443 0.000 443 0.000 443	Carenter transmitter	The disputit leader motion allowed with a specified with a specific wit					balah seperatu aka para para para para para para para	The dispetation fact cash is being of she for the fact methods in the fact method is the fact method in the fact method is		Virging and the set of	- here
меноть с меноть с менот	2.022 1423 .56 1423 .16 .16 1424 .16 .16 1425 .162 .16 1426 .16 .16 1427 .16 .16 1428 .16 .16 1428 .16 .16 1428 .16 .16 1428 .16 .16 1428 .16 .16 1439 .16 .16 1439 .16 .16 1439 .16 .16 1439 .16 .16 1441 .16 .16 1441 .16 .16 1441 .16 .16 1441 .16 .16 1441 .16 .16 1441 .16 .16 1441 .16 .16 1441 .16 .16 1441 .16 .16 1441 .16 <td>Garanter knowel lyse ander connectador to connectador ander connectador to connectador and and an anti-anti-anti-anti-anti-anti-anti-anti-</td> <td>The disputit leader number allowed and an engineering is with the specified state and and compared is with the specified state and an engineering is a state of the specified state and the specific leader number of the state of the the disputities leader number of the SDD has the state of the state of the SDD has the state of the state of the SDD has the state of the SDD has and the SDE COS.</td> <td>P204</td> <td>Greede Tge Tspiseles</td> <td></td> <td></td> <th></th> <th>The slopest full call is a spectra of the full is a spectra of the full</th> <td></td> <td>Vergenerations of the second s</td> <td>-bea -bea -bea -bea -bea -bea -bea -bea</td>	Garanter knowel lyse ander connectador to connectador ander connectador to connectador and and an anti-anti-anti-anti-anti-anti-anti-anti-	The disputit leader number allowed and an engineering is with the specified state and and compared is with the specified state and an engineering is a state of the specified state and the specific leader number of the state of the the disputities leader number of the SDD has the state of the state of the SDD has the state of the state of the SDD has the state of the SDD has and the SDE COS.	P204	Greede Tge Tspiseles				The slopest full call is a spectra of the full		Vergenerations of the second s	-bea -bea -bea -bea -bea -bea -bea -bea
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				The field is second when			Voltage condition: - Onboard electrical system - Inhore indexem D V and 39				lamp: off - ECE electronic engine				
				the battery charge status is below 35 % while in the			V V Temperature condition:				- CC message: on				
				transport mode. Potential problem source(s):	This fault is logged in the		- None Time condition: - None			Note in dealer's delivery acceptance record Conduct (ABL) energy diagnosis test module Replace battery before delivery to customer	US emissions warning lamp: off US electronic engine power	This fault position is not used in the L4. The fault class is set to V starting with	Possible apparent symptoms:		
MEVD17.2- BN2000 0	x387D 14451	Power management, butlery: Power The diagnostic function monitors the battery's management faulty drange status in the transport mode.		Excessive battery discharge in transport mode	control module's fault memory immediately.	none	Other conditions: - none - None - None	None none Y	- Excessive battery discharge in transport mode	and register battery change with service function	reduction: off - CC message: on	production breakpoint 09/07. Retained in LØ	CC message when battery replacement is not registered with the diagnostic system.	Breakdown notice: None	None
				The fault is recognized when			Vollage condition: - Onboard electrical system voltage between 9 V and 15				ECE electronic engine power reduction: off				
				the discharge from excessively high standby currents is higher than 1 Ah.			V Temperature condition: - None				- CC message: on - US emissions warning				
MEVD17.2-		Power management, closed-circuit current The diagnostic function monitors the standby		Potential problem source(s) - Closed-circuit current too	This fault is logged in the control module's fault		Time condition: - None Other conditions:			Conduct (ABL) energy diagnosis test module Conduct external standby current	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000 0	x3877 14463	volation ournet daw. P150F Powermanagement No Load Current Error Power	management Electrical	high	memory immediately.	none	- none - None - None - None - None	None rone Y	- Closed-circuit current too high	measurement	- CC message: on lamp: of	Date	- Breakdown in extreme cases	Nore	None
				The diagnostic fault code is logged when the electrical			- Electrical system voltage greater than 16 V Terroerative condition:				ECE electronic engine power reduction: off CC message: on				
				system voltage exceeds 16V.			- None Time contine:				- US emissions warning				
MEVD17.2-		The disgnatic function monitors the electrical		Potential problem source(x) - Alternator voltage regulator	This fault is logged in the control module's fault		Other conditions: - Engine on				- US electronic engine power reduction: off		Possible apparent symptoms: Power reduction, CC message for engine	Breakdown notice:	
BN2000 0	x3886 14470	Synkem volkage: Volkage kos high aysteen volkage inlaktive to an upper limit value. POSCS Synkem Volkage High Synke	m Volage Electrical	the ECU fault memory when the electrical system voltage	memory intradulely.	none	- Speed > 20 km/h - Norse - 2 min. after engine start	NO 0.65815 N	Alternator voltage regulator is defective	- Replace alternator	- CC message: on - ECE emissions warning	none	mailunction	None	None
				is higher than 2.54 V but lower than 9.99 V.			Voltage condition: - Onboard electrical system - Inhore backagen 2 56 V and				lamp: off - ECE electronic engine resear reduction: off				
				Potential problem source(s) - Plug or wiring harness on			9.99 V Temperature condition:				- CC message: none				
				- Plug or witing harness on DME defective	This fault is logged in the		- None Time condition: - 3 min, after engine start		Plug or wiring harness on alternator defective Plug or wiring harness on DME defective	Check plug and wiring harness at alternator Check plug and wiring harness at DME	- US emasors warring lamp: off - US electronic engine power				
MEVD17.2- BN2000 0	x3887 14471	The diagnesic function monitors the ballery System voltage: Voltage loo low voltage relative to a lower limit. PDS52 System Voltage Low System	m Voltage Electrical	Alternator defect Defective DME	control module's fault memory immediately.	none	Other conditions: - Engine ON - Norse - 3 min, after engine start	NO U.0x5815 N	Atternator defect Defective DME	Replace alternator Replace DME	reduction: off - CC message: none	D208	Possible apparent symptoms: None	Breakdown notice: None	Nicos
				The fault is logged in the ECU fault memory when the			Ohloard electrical system voltage between 9 V and 15				ECE electronic engine power reduction: off				
				(inside DME) is less than 2.54 V.			V Temperature condition: - None				- CC message: none - US emissions warning				
MEVD17.2		Sudam voltane Androsa André maarter The diservoir function methos be voltane /		Potential problem source(x)	This fault is logged in the		Time condition: - None Char condition:			- Clear diagnostic fault codes from ECU fault	lamp: off - US electronic engine power reduction: off		Drouble amount symptoms	Brailidean notice:	
BN2000 0	x3888 14472	faulty the analog-digital converter. POSEO System Voltage Syst	m Voltage Electrical	digital converter) The fault is recognized when	memory immediately.	Terminal 15	- none - None - None - None - None	NO U, 0x5815 N	Defective DME (analog-digital converter)	- If fault appears again replace the DME	- CC message: none lamp: of	none	None	None	None
				frequent interference occurs on the LIN bus.			- Onboard electrical system voltage between 9 V and 15 V				- ECE electronic engine power reduction: off - CC message: none				
				Potential problem source(s) - Intermittent open on LIN hus wire	The diameter field code is		Temperature condition: - None Time condition:			- Check LIN bus and plug connector between	- US emissions warning				
MEVD17.2-		The diagnostic function monitors expanded communications between the BIS and DME on the BIS (Communication bit and the BIS and DME on the BIS (Bis (Bis (Bis (Bis (Bis (Bis (Bis (Bis		Other defective components on LIN bus	logged when the fault remains present for longer		- None Other conditions:	NO	Intermittent open on LIN bus wire Other defective components on LIN bus	BS and DME/DDE - Note faults at other devices on the bus Reviews IRP	- US electronic engine power reduction: off		Possible apparent symptoms: - Anything from no symptoms to breakdown from orders and bitters	Breakdown notice:	Norm
							Voltage condition: - Onboard electrical system				lamp: off - ECE electronic engine				
				The fault is recognized when the IBS and DME/DDE are			voltage between 9 V and 15 V Temperature condition:				power reduction: off - CC message: none				
		The disposition function monitory reconstraining		not compatible.	The diagnostic fault code is logged when the fer ff		- None Time condition: - None				- US emissions warning lamp: off				
MEVD17.2- BN2000 0	x38A7 14503	Inhiligent balley sensor (IBS) Version not. df the IBS version with the power management plausible in the DME/DDE P15CP Balley Sensor Verleet Plausibility		OME/DDE and IBS are not compatible	remains present for longer than 1 min.	none	Other conditions: - none - None - None	NO none N	- DME/DDE and IBS are not compatible	- Replace IBS	reduction: off - CC massage: none	none	Possible apparent symptoms: - none	Breakdown notice: None	None
							Voltage condition: - Onboard electrical system voltage between 9 V and 15				lamp: off - ECE electronic engine power reduction: viti				
				The fault is recognized when			V Temperature condition:				- CC message: none				
				internal system fault.	The diagnostic fault code is logged when the fault		Time condition: - None			- If the diagnostic fault code has been entered	- US electronic engine power		Possible apparent symptoms:		
MEVD17.2- BN2000 0	x38A8 14504	Intelligent battery sensor (185): Internal fault system functions in the IBS.		Potential problem source(s) - BS defective	remains present for longer than 1 min.	none	- none - None - None - None	NO none N	- IDS defective	with a frequency > 3 or is present continuously then replace the BS	reduction: off - CC message: none jame: off	nane	 wrything from no symploms to breakdown from undercharged battery 	Eneekdown notice: None	None
							Onboard electrical system voltage between 9 V and 15 V				- ECE electronic engine power reduction: off				
				The fault is recognized when a fault with the temperature			Temperature condition: - None				- UC message: none - US emissions warning				
MEVD17.2-		Intelligent ballery sensor (IBS): Temperature The disposition system plausabilizes the IBS		Potential problem source(s):	The diagnostic fault code is logged when the fault remains present for longer		Time condition: - None Other conditions:			 If the diagnostic fault code has been entered with a frequency > 3 or is present continuously 	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms: - Anything from no symptoms to breakdown	Breakdown notice:	
BN2000 0	x38A9 14505	massurement Saulty temperature measurement. P15D Battery Sensor Temperature Error		- IBS defective	than 1 min.	none	- none - None - None - None - None	NO none N	- IDS defective	then replace the IBS	- CC message: none.	Date	from undercharged battery	None	Nices
							- Onboard electrical system voltage between 9 V and 15 V				ECE electronic engine power reduction: off CC message: none				
				The fault is recognized when a fault with the voltage measurement is present.	The disancetic fault code is		Temperature condition: - None Time condition:				- US emissions warning lamp: off				
MEVD17.2-		Intelligent balleys ensor (IDS): Voltage The diagnostic system plausibilizes the IDS mesone and any service of the system plausibilizes the IDS Intelligent balleys and the system plausibility and the system plausi		Potential problem source(s)	logged when the fault remains present for longer		- None Other conditions:	NO	WP defection	 If the diagnostic fault code has been entered with a frequency > 3 or is present continuously been services the RP. 	- US electronic engine power reduction: off		Possible apparent symptoms: - Anything from no symptoms to breakdown from orders broken breakdown	Breakdown notice:	Norm
united to	Carry I Colo	PLAN MARKET COMPANY COMPAN		- Lo del che		10.14	Voltage condition: - Onboard electrical system				lamp: off - ECE electronic engine	The first second s			
				The facilitie recommined when			voltage between 9 V and 15 V Termenative condition:				power reduction: off - CC message: none				
				the IBS current measurement is incorrect.	The diagnostic fault code is		- None Time conditon:				- US emissions warning lamp: off				
MEVD17.2- BN2000 0	x38AB 14507	Intelligent battery sensor (BS); Current The diagnostic system plausibilizes the 185 current emosious current emosious current emosious provide the sensor current Emore the sensor current Emore and the sensor current Em		Potential problem source(s) - IBS defective	remains present for longer than 1 min.	none	- None Other conditions: - None - None - None	NO none N	- IBS defective	 If the diagnosis: taut code has been ensered with a frequency > 3 or is present continuously then replace the IBS 	- US electronic angles power reduction: off - CC message: none	none	Anything from no symptoms to breakdown from undercharged battery	Breakdown notice: None	None
				The fault is recognized when			Voltage condition: - Onhourd electrical system - Inhou betrans 0 V and 15				lamp: off - ECE electronic engine				
				circuit.			V Temperature condition:				- CC message: none				
		L4: The diagonatic function monitors the wake- up wine		- L4: Defect in wake-up wire - L6: Defect in wake-up wire	The diagnostic fault code is logged when the fault		- None Time condition: - None		- L4: Defect in wake-up wire	- L4: Check wake-up wire	- US emissions warring lamp: off - US electronic engine power				
MEVD17.2- BN2000 0	14506	htteligent ballery sensor (BS); Wales-op Ine, LD: The diagonalic function monitors the wake- abort to ground up wire to the junction base electronics.		from IBS to junction box electronics when the simplification the	remains present for longer than 1 min.	none	Other conditions: - none - None - None	NO none N	- LS: Defect in wake-up wire from IBS to junction box electronica	L6: Check wake-up wire between IBS and junction box electronics	reduction: off - CC message: none - ECE amissings warning	none	Possible apparent symptoms: None	Breakdown notice: None	None
				wake-up wire is implausible. L6: The fault is recognized			Voltage condition: - Onboard electrical system				lamp: off - ECE electronic engine				
				open.			V V Temperature condition:				- CC message: none				
		L4: The diagnostic function monitors the wake- sp wire		Potential problem source(s) - L4: Defect in wake-up wire or BS	The diagnostic fault code is logged when the fault		- None Time condition: - None		- L4: Defect in wake-up wire or IBS	- L4: Check wake-up wire, replace IBS	US emissions warning lamp: off US electronic engine power				
MEVD17.2- BN2000 0	x3882 14514	htteligent ballery senaro (185) Wale-up Ine, L6: The diagnostic function monthm the wale- level implicatible up wile to the junction toxi electronics. P1518 Battery Senaro Waleup Circuit		L6: Defect in wake-up wire from IBS to junction box The fault is reconstruct who	remains present for longer than 1 min.	none	Other conditions: - none - None - None - None	NO none N	- LG: Defect in wake-up wire from IBS to junction box electronics	- L6: Check wake-up wire between IBS and junction box electronics	reduction: off - CC message: none	none	Possible apparent symptoms: None	Breakdown notice: None	None
				communications between the IBS and DME break down.			Onboard electrical system voltage between 9 V and 15 V				ECE electronic engine power reduction: off CC means and a construction				
				Potential problem source(s) - Open BSD wire Interference			Temperature condition: - None			Check power-supply voltage to IBS Check BSD bus between IBS and DME	- US emissions warning				
MEVD17.2-		BSD: No messee from intelligent ballery The discretist function monitors BSD bus		in wire between engine- management control module and battery sensor	The diagnostic fault code is logged when the fault remains creatent for longer		Time condition: - None Other conditions:		Open BSD wire interference in wire between engine-management control module and battery sensor	Check fault memories of other components on BSD bus Check BSD bus of other components	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms: - Anything from no symptoms to breakdown	Breakdown notice:	
BN2000 0	x3884 14516	sensor (BS) communications with the DME.		Defective battery sensor. The fault is recognized when a sheet of	than 1 min.	none	- None - None - None - None - None	NO none N	- Defective battery sensor.	- Replace IBS	- CC message: none lamp: of	nore	from undercharged battery	Norm	none
				a array croat to positive is present.			V Temperature condition:				- LCL vectors engine power reduction: off - CC message: none				
				- Osense problem source(s) - Defect in wiring harness between engine mount and			Time condition: None		- Defect in wiring harness between engine mount	- Check wiring harness between DME and engine	- US emissions warning tamp: off				
MEVD17.2- BN2000	14950	Active engine mount, electical: Short circuit to the SME to the engine mount for Mote to B+ DME to the engine mount for Mote to D= PDA16 Engine Mount W Created Canal Heat		DME - Defective engine mount - Defective DM ^{II}	This fault is logged in the control module's fault memory immediate ¹	1016	Other conditions: - Engine on - Engine speed > 1200 rpm, - None - Novee	STEUERN_ENDE_MLS, STEUERN_MLS U N	and DME - Defective engine mount - Defective PMBI	nount - Replace engine mount - Replace DM ^{at}	- US electronic engine power reduction: off - CC message: none	none	Possible apparent symptoms: None	Breakdown notice: None	None
		Service Service A Service		The fault is recognized when a short circuit to ground is			Onboard electrical system voltage between 9 V and 15				lamp: off - ECE electronic engine				
				present. Potential problem source(s):			V Temperature condition: - None				power reduction: off - CC message: none				
		The disgraphic function monitors the wire from		Defect in wiring harness between engine mount and DME	This fault is logged in the		Time condition: - None Other conditions:		- Defect in wiring harness between engine mount and DME	- Check wiring harness between DME and engine mount	US emissions warning lamp: off US electronic engine power				
MEVD17.2- BN2000 0	x38D7 14551	Active expine mount, electrical: Short circuit to the DME to the expine mount for shorts to earth ground PGA15 Engine Mount X Control Circuit Low		Defective engine mount Defective DME	control module's fault memory immediately.	none	Engine on Engine speed > 1200 rpm, - None - None - None	STEUERN_MLS. STEUERN_MLS U N	Defective engine mount Defective DME	Replace engine mount Replace DME	reduction: off - CC message: none	none	Possible apparent symptoms: None	Breakdown notice: None	None
				The fault is recognized when an open wire is present.			voltage between 9 V and 15 V				- ECE electronic engine power reduction: off				
				Potential problem source(s) - Defect in wiring harness			remperature condition: - None Time condition:				- CC message: none - US emissions warning				
MEVD17.2-		Adve engine mount, electricat Line we from the USE to be engine mount for		between engine mount and DME - Defective engine mount	This fault is logged in the control module's fault		- None Other conditions: - Engine on	STEUERN_ENDE_MLS.	Defect in wining harness between engine mount and DME Defective engine mount	Check wiring harness between DME and engine mount Peplace engine mount	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000 0	3808 14552	disconnection gama. PRA14 Engine Mount X: Control Circuit/Opan		Defective DME Dree test pulses to Terminal Sor an MFA start	memory immediately.	none	- Engine speed > 1200 pm None - None	STEUERN MLS U N	- Defective DME	- Replace DME	- CC message: none	Date	None	Norm	None
				confirmation of automatic Terminal 15 deactivation are			Voltage condition: - Onboard electrical system minute hadrone D V and M				lamp: off - ECE electronic engine				
				not transmitted through the enable wire.			V Temperature condition:				power reduction: off - CC message: on		 Hossow apparent symptoms: MSA non-starter on initial appearance of fault, No MSA start after stalling internal- 		
				Potential problem source(s) - Defect in wiring harness between CAS and DME	This fault is logged in the		- None Time condition: - None		- Defect in wiring harness between CAS and DME	- Check wiring harness between CAS and DME	- US emissions warning lamp: off - US electronic engine power		combustion powerplant, - MSA (automatic start-stop) function is not available		
MEVD17.2- BN2000 0	x38EF 14575	Enable line, MSA, activation Short drout to B+ for the MSA alurt request.		Defective CAS Defective DME	control module's fault memory immediately.	Terminal 15	Other conditions: - none - None - None	NO none N	- Defective CAS - Defective DME	Continue fault diagnosis with CAS Replace DME	reduction: off - CC message: on	none	- Automatic deactivation of Terminal 15 is not available	Breakdown notice: None	None
				15 or an MSA start request or confirmation of automatic			Voltage condition:				ECE emissions warning lamp: of				
				remnal 15 deactivation are not transmitted through the enable wire.			voltage between 9 V and 15 V				- LCL vectoric engine power reduction: off - CC message: on		Possible apparent symptoms: - MSA non-starter on initial appearance of fault,		
				Potential problem source(s) - Defect in wiring harness			- None Time condition:		- Defect in wring harness between CAS and		- US emissions warning lamp: off		reo wow seat after stalling internal- combustion powerplant, MSA (automatic start-stop) function is not		
MEVD17.2- BN2000	x38F0 14576	Enable line, MSA, activation Short-circuit to The diagnostic function monitors the enable wire earth for the MSA start regional.		between CAS and DME - Defective CAS - Defective DME	none	Terminal 15	- None Other conditions: - none - None - None	NO none N	- Defective CAS - Defective DME	Check wiring harness between CAS and DME Continue fault diagnosis with CAS Replace DME	- US electronic engine power reduction: off - CC message: on	none	available - Automatic deactivation of Terminal 15 is not available	Breakdown notice: None	None
	- Sire			three test pulses to Terminal 15 or an MSA start request or			1 TANK	(m.)			- ECE emissions warning				
				confirmation of automatic Terminal 15 deactivation are not transmitted through the			vorsege condition: - Onboard electrical system voltage between 9 V and 15				lamp: off - ECE electronic engine power reduction: off		Possible apparent symptoms:		
				enable wire. Potential problem snorreity'			V Temperature condition: - None				- CC message: on		MSA non-starter on initial appearance of fault, No MSA start after stalling internal- combustion powerplant.		
MEND17.3		The discretic function monitory the environment		Defect in wring harness between CAS and DME Defective CAP			Time condition: - None Citter conditions:		Defect in wiring harness between CAS and DME DME DME	Check wing harness between CAS and DME Continue field diamonal with CAP	lamp: off - US electronic engine power replactions off		MSA (automatic start-stop) function is not available Automatic descrives of Terminet 19 is not	Brasistran mine	
BN2000 0 MEVD17.2- BN2000	x38F1 14577	Enable Ins. MSA, activation Line disconnection for the MSA start request.		- Defective DME	none	Terminal 15	- none - None - None	NO none N	- Defective DME	- Replace DME	- CC message: on	none	available	Nore	None
MEVD17.2- BN2000 0	x38F3 14579														
				rhe fault is recognized when an internal fault for 'acoilary battery charging unit' is			vorsøge condition: - Onboard electrical system voltage between 9 V and 15				lamp: off - ECE electronic engine power reduction: off				
				present. Potential problem scorredy			V Temperature condition: - None				- CC message: on				
MENDIX		The diseased function exception for humanitary		Auxiliary battery charging unit defective Auxiliary battery charging	This fault is logged in the		Time condition: - None Citier conditions:		· Mercellage business shows in the second	Out military	lamp: off - US electronic engine power		Drawbie entered and	Registeres estine	
BN2000 0	×3908 14600	time surgicities out south and the RESERV bullety charging unit		- Autorities Datiery is defective	memory immediately.	Terminal 15	- none - None - None - None	NO none Y and N	Auxiliary battery is defective Auxiliary battery is defective	- Crack accessry satisfy - Replace 'auxiliary battery changing unit'	- CC message: on lamp: of	none	Steering support from power afsering limited	Norma	None
				The fault is recognized when an open wire or short circule			- Onboard electrical system voltage between 9 V and 15 V				ECE electronic engine power reduction: off CC message: on				
				is present.			Temperature condition: - None Time condition:				- US emissions warning				
MEVD17.2-	1909	The diagnosis function monitors the wire and its shalldarp between the 'auxiliary adverging unit of wire universes +***********************************		Defect in wing harness between secondary battery and ministry	This fault is logged in the control module's fault memory immediate'	Tarrent M	- None Other conditions:	NO	- Defect in wiring harness between secondary	- Check wires and wiring shield between	- US electronic engine power reduction: off		Possible apparent symptoms: Staaring support	Breakdown notice:	0000
	1 1 1000	· · · · · · · · · · · · · · · · · · ·		to the state y	, and and the second se		, once Printers	pass D	and have a second enterly	and parts control warming	conseque sur	100.00	to an a second part of the second second		

					1							1	1							
					The voi separation is the second seco	oltage at the battery tor's output terminal is an 24V when Terminal or the electric its of			Voltage condition: - Onboard electrical system voltage between 9 V and 15							ECE electronic engine power reduction: off				
					has an	n internal voltage of less than 15 V.	diamentic field code is		Temperature condition: - None Time condition:							- US emissions warning				
MEVD17.2-	The diagnostic function monitors the auxiliary before for the electric energy charges				Potenti - Ar	al problem source(s) log acciliary battery is remaind	oggied when the fault ains present for longer	Termined 18	- None Other conditions:	News	No			Aurilian ballan is defented	Charle scaling below	- US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notic	:
	and you the encirc power assence.	ĺ			the vo separat	stage at the battery tor's output terminal is	inter 2 million	Terring 15		- 14.18	* PECHI			· Packary carsey is concerve	· Charlot, accounty places y	· commige. un	17208	Steering appointion power steering minted		760.00
					less tha 15 is on has at	an 24V when Terminal n, or the steering itself in internal voltage of			Voltage condition: - Onboard electrical system							ECE emissions warning lamp: off ECE electronic engine				
					Potenti	less than 15 V. Ial problem source(x)			Voltage between 9 V and 15 V Temperature condition:							power reduction: off - CC message: on				
	The diagnostic function monitors the battery separator, the wires between vehicle battery and				- Defi himesi - Defect	fect in plug or wiring a at battery separator tive battery separator This	s fault is logged in the		- None Time condition: - None					- Defect in plug or wiring harness at battery separator	- Check plug and wiring harness at battery separator	- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 0x306 14003 MEVD17.2-	auxiliary battery, and the charge status of the auxiliary battery.				- Aux diac	cliary battery deep- cor charged, defective me	ontrol module's fault semory immediately.	Terminal 15	Other conditions: - none	- None	- None NO	none	Y	Defective battery separator Auxiliary battery deep-discharged, defective	Replace battery separator Oheck charge status of auxiliary battery	reduction: off - CC message: on	none	Possible apparent symptoms: Steering support from power steering limited	Breakdown notic None	None
BN2000 0x350C 14804 MEVD17.2- BN2000 0x350D 14805																				
MEVD17.2- BN2000 0x300E 14606 MEVD17.2-																				
BN2000 0-3852 15186 MEVD172 BN2000 0x3857 15191																				
MEVD17.2- BN2000 0x3899 15257					The elec	ctric water pump fails			- Onboard electrical system							lamp: off				
					to re messa	apond to BSD bus ages from the DME.			voltage between 9 V and 15 V Termenature condition						. Continue last matine with last markies that	ECE electronic engine power reduction: off CC message: rn				
					Potenti - Defect	t in wring harness to	discussion for discussion in		- None Time condition:		Yes,				deal with problems related to voltage in onboard electrical system	- US emissions warning				Observe sequence for fault rectification - If the pump is activated at TMOT+90 °C heating link the discussion fault and a 27
MEVD17.2- Coolant pump, LIN communication: Invalid	id The diagnostic function monitors BSD bus				- Com	munications problem log on BSD bus remai	oggied when the fault ains present for longer		Other conditions: - Engine on		AP, activate electr. water pump (bit-serial data			Defect in wiring harness to water pump Communications problem on BSD bus	DME - Conduct tester job	- US electronic engine power reduction: off		Possible apparent symptoms: Breakdown in extreme cases, electric water	Breakdown notic	Gx20AD08 'Water pump: rotation spec implausible' can be logged, ignore this faul
BP2000 09,2004 15256 Pessage MEUDT 2- BP2000 052868 15259 DF0017 5	communications with the electric water pump.				-00	ective water pump	Dan 1 min.	CI BUTTINI	- No BSU NUR	- NONE	- None america)	hone	n	- Delective water pump	- repace water pump	- CC message: on	none	pump stops operating - angine overneets	NOR	General II Carry out tesser (co at 1mons
8N2000 0x289C 15260 MEVD17.2- 8N2000 0x289D 15261																				
									Voltage condition: - Onboard electrical system							lamp: off - ECE electronic engine				
					The fact the key	alt is recognized when ep-alive counter has			Voltage between 9 V and 10 V Temperature condition:							- CC message: none				
					Potenti	al problem source(x) This	s fault is logged in the		Time condition: - None							lamp: off - US electronic engine power				
BN2000 0x2BC4 15300 check	of the message.				- 180	control module me	semory immediately.	Terminal 15	- none Voltage condition:	- None	- None NO	CAN message	N	- Fault with transmitting control module	- Carry out system analysis.	- CC message: none lamp: off	none	- ARS failure	None	None
					The fac	ult is recognized when			Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: off CC message: none				
					the max in the	ssage is not received the specified time.			Temperature condition: - None Time condition:							- US emissions warning lamp: off				
MEVD17.2- BN2000 0x28C5 15301 PT-CAN, message (ARS control unit-mission	The diagnostic function monitors reception of the message.				Potenti - Far	al problem source(x) This uit with transmitting con control module me	s fault is logged in the ontrol module's fault emory immediately.	Terminal 15	- None Other conditions: - right	- None	- Ncos NO	CAN message	N	- Fault with transmitting control module	- Carry out system analysis.	US electronic engine power reduction: off <u>CC message: none</u>	Doce	Possible apparent symptoms: - ARS failure	Breakdown notic	None
						T			Voltage condition: - Onboard electrical system							lamp: off - ECE electronic engine remear reduction: off				
					The dia logger	agnostic fault code is d when the message a checksum wnw			V Temperature condition: - None							- US emissions antimine				
MENDIT 2.	The diagonalis function manihum film				Potenti	al problem source(x) This	s fault is logged in the		Time condition: - None Other conditions							- US electronic engine power		Prosible		
BN2000 0x28C6 15302 incorrect	of the message.				-7m	control module me	semory immediately.	Terminal 15	- none Voltage condition:	- None	- None NO	CAN message	N	- Fault with transmitting control module	- Cany out system analysis.	- CC message: none Lamp: off	none	- ARS failure	sinakdown notic None	None
					The fac	uit is recognized when			- Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: off - CC message: none				
					the max in the	ssage is not received he specified time.			Temperature condition: - None Time condition:							- US emissions warning lamp: off				
MEVD 17.2- BN2000 0x38C7 15303 PT-CAN, message (CAS control unit) mission	The diagnostic function monitors reception of ing the message.				Potenti - Fac	ial problem source(s) This uit with transmitting con control module me	s fault is logged in the ontrol module's fault semory immediately.	Terminal 15	- None Other conditions: - none	- None	- None NO	CAN message	N	- Fault with transmitting control module	- Carry out system analysis.	US electronic engine power reduction: off CC message: none	none	Possible apparent symptoms: None	Breakdown notic None	None
					The fac	uit is recognized when			Voltage condition: - Onboard electrical system							lamp: off - ECE electronic engine				
					not time mea	ep-anve counter has id the message or the isage checksum is			Voitage between 9 V and 10 V Temperature condition:							- CC message: none				
					Potenti	incorrect. ial problem source(x) This	s fault is logged in the		- None Time condition: - None							- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 0x2BC8 15304 wrong/ alive check	aum The diagnostic function monitors the currency and the checksum of the message.				- Pa.	ut with transmitting con control module me	ontrol module's fault semory immediately.	Terminal 15	- none Voltage condition:	- None	- None NO	CAN message	N	- Fault with transmitting control module	- Carry out system analysis.	- CC message: none lamp: off	none	Possible apparent symptoms: None	Breakdown rotic None	None
					The fac	ult is recognized when			Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: off - CC message: none				
					the max in the	saage is not received the specified time.			Temperature condition: - None Time condition:							- US emissions warning lamp: off				
MEVD17.2- BN2000 0x2BCC 15306 PT-CAN message (PHA control unit-missio	The diagnostic function monitors reception of				Potenti - Fax	al problem source(s): This uit with transmitting con control module me	s fault is logged in the ontrol module's fault serrory immediately.	Terminal 15	- None Other conditions: - cone	- None	-Nome NO	CAN message	N	- Fault with transmitting control module	- Carry out avatem analysis.	US electronic engine power reduction: off - CC message: none	DOTE	Possible apparent symptoms: - Brief rpm drop when automatic climate control is activated at idle	Breakdown rotic	None
					The fac	ult is recognized when			Voltage condition: - Onboard electrical system							lamp: off - ECE electronic engine				
					the ker not time mes	ep-alive counter has ad the measuage or the asage checksum is			Voltage between 9 V and 15 V Temperature condition:							- CC message: none				
					Potenti	incorrect. ial problem source(x): This	s fault is logged in the		- None Time condition: - None							- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- PT-CAN, message (nathument panel contro BN2000 0x3BCD 15309 unit) Alive check	tol The diagnostic function monitors the currency of the message.				- 7m	ut with transmitting con control module me	ontrol module's fault semory immediately.	Terrinal 15	Other conditions: - 1008	- Nicos	- Nome NO	none	N	Fault with transmitting control module	- Carry out system analysis.	reduction: off - CC message: none large off	none	Possible apparent symptoms: None	Breakdown notic None	None
					The fee	uit is recommined when			- Onboard electrical system voltage between 9 V and 15							ECE electronic engine power reduction: off CC message: none				
					the men	sage is not received the specified time.	discussion for discussion in		Temperature condition: - None							- US emissions warning				
MEVD17.2- BYTCAN, message (instrument panel control BYTCAN, message (instrument panel control	trol The diagnostic function monitors reception of				Potenti - Fax	al problem source(x) log uit with transmitting remail	oggied when the fault ains present for longer	Termined 18	- None Other conditions:	News	No			For the site because the second second second se	Constant and product and price	- US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notic	
and the second						Control Indexe		in the second second	Voltage condition: - Onboard electrical system	- 16.18	- rice as				· Carry Co. Ayanna anaryan.	lamp: off - ECE electronic engine	nute			TEX III
					The fau the star warring	alt is recognized when thus of the emissions g lamp does not match			Voltage between 9 V and 15 V Temperature condition:							power reduction: off - CC message: none				
					Potenti	requested status. ial problem source(x) This	s fault is logged in the		- None Time condition: - None							US emissions warning lamp: off US electronic engine power				
MEVD17.2- BN2000 0x3BCF 15311 unit/ML activation implauable	tol The diagnostic function monitors the status of the emissions warning lamp.				- Pau	alt with transmitting con control module me	ontrol module's fault semory immediately.	Terminal 15	Other conditions: - none Voltage condition:	- None	- None NO	none	N	- Fault with transmitting control module	- Carry out system analysis.	reduction: off - CC message: none lame: off	none	Possible apparent symptoms: None	Breakdown notic None	None
					The fau the key	alt is recognized when ep-alive counter has set the message and			Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: off CC message: mroe				
					the me	essage checksum is incorrect.			Temperature condition: - None Time condition:							- US emissions warning				
MEVD17.2- PT-CAN, message (request forque DSC, 08) PA2000 0x3800 15112	85): The diagnostic function monitors the currency and the chardwarm of the massage				Potenti - Fau	al problem source(s) This all with transmitting con control module me	s fault is logged in the ontrol module's fault sensory immediately	Terminal 15	- None Other conditions:	Nime	None NO	CAN message	N	. Field with transmittion control module	- Cany red waters analysis	- US electronic engine power reduction: off	0.758	Possible apparent symptoms:	Breakdown notic	: Norm
									Voltage condition: - Onboard electrical system							lamp: off - ECE electronic engine				
					The fac the man	uit is recognized when ssage is not received he snectied time			V Temperature condition							- CC message: none				
	The descetts function members recently a				Potenti	ial problem source(s): This	s fault is logged in the		Time condition: - None							- US electronic engine power		Provide and an end of the		
BN2000 Gx28D1 15313 0865:	The message.				-76	control module me	semory immediately.	Terminal 15	- none Voltage condition:	- None	- None NO	CAN message	N	Fault with transmitting control module	- Cany out system analysis.	- CC message: none lamp: of	none	DSC failure	None	None
					The fac	ult is recognized when			voltage between 9 V and 15 V							- CLC: electronic engine power reduction: off - CC message: none				
					the maximum limits	the specified time.	a fact is present in		- None Time condition:							- US emissions warning lamp: off				
MEVD17.2- BN2000 0x38D2 15314 PT-CAN, message (wheel speed, OCE): miss	The diagnostic function monitors reception of the message.	UTIED	Lost Communication With Wheel Speed	Communication	Potenti - Fax. Wheel Speed	ar y-streem source(x) This con uit with transmitting con control module me	e wuit is logged in the ontrol module's fault senory immediately.	Terminal 15	Cther conditions:	- None	- None NO	CAN measage	N	- Fault with transmitting control module	- Carry out system analysis.	- CC message: none	0208	Possible apparent symptoms: Nore	Breakdown notic None	None
					The fact the key	alt is recognized when ep-alive counter has			Voltage condition: - Onboard electrical system voltage between 9 V and 15							lamp: off - ECE electronic engine power reduction: off				
					not tim the me	ed the message and essage checksum is incorrect.			V Temperature condition: - None							- CC message: none				
MEVD17.2- PT-CAN, message (transmission data 4, 10A	3A): The diagnostic function monitors the currency				Potenti - Fac	al problem source(x) This out with transmitting con	s fault is logged in the ontrol module's fault		Time condition: - None Other conditions:							lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notic	
BN2000 0x28D3 15315 Checksum wrong/ alive check	and the checksum of the message.				-'	control module me	emory immediately.	Terminal 15	rone Voltage condition: Onboard electricor conten	- None	- None NO	CAN message	N	Fault with transmitting control module	- Carry out system analysis.	- CC message: none lamp: off - ECE electronic conten	none	None	None	None
					The fac	uit is recognized when			voltage between 9 V and 15 V Temperature condition							power reduction: off - CC message: none				
					in the	the specified time.			- None Time condition:							- US emissions warning lamp: off				
MEVD17.2- BN2000 0x28D4 15316 PT-CAN, message (transmission data 4, 10A missing	3A): The diagnostic function monitors reception of the message.				Potenti - Fac	at with transmitting control module me	ontrol module's fault semory immediately.	Terminal 15	Other conditions: - none	- None	- None NO	CAN message	N	- Fault with transmitting control module	- Cany out system analysis.	- or even office engine power reduction: off - CC message: none	none	Possible apparent symptoms: None	Breakdown notic None	None
									Voltage condition: - Onboard electrical system voltage between 9 V and 15							lamp: off - ECE electronic engine power reduction: off				
					The fac the man in th	uit is recognized when stage is not received the specified time.			V Temperature condition: - None							- CC message: none				
MEVD17.3-	The diagnostic function monitors reception of				Potenti - Fas	al problem source(s): This ut with transmitting con	s fault is logged in the ontrol module's fault		Time condition: - None Other conditions:							lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notic	
BN2000 0x28DS 15317 PT-CAN, measage (atatus DSC, 19E) misain	ing the message.	U1126	Lost Communication With DSC Status	Communication	DSC Status	control module me	semory immediately.	Terminal 15	- none Voltage condition:	- None	- None NO	CAN message	N	Fault with transmitting control module	- Cany out system analysis.	- CC message: none lamp: of	none	Nore	None	Norme
					The fac the kee not time	ep-alive counter has red the message and			voltage between 9 V and 15 V							power reduction: off - CC message: none				
					the me	incorrect.			- None Time condition:							- US emissions warning lamp: off				
NEVD17.2- BN2000 0x28D6 15318 PT-CAN, message (vehicle speed, 1A0): checksum woog/ alive check	: The diagnostic function monitors the currency and the checksum of the message.	UIICA	Message Monitoring Speed Alive Check/Check Sum Error		Potenti - Fiso	at with transmitting control module me	s tault is logged in the ontrol module's fault semory immediately.	Terminal 15	- rione Other conditions - none	- None	- None NO	CAN message	N	- Fault with transmitting control module	- Carry out system analysis.	- uS electronic engine power reduction: off - CC message: none	none	Possible apparent symptoms: None	Breakdown notic None	None
							T		Voltage condition: - Onboard electrical system voltage between 9 V and 1 st							ECE electronic engine power reduction: off				
					The fac the max is th	uit is recognized when ssage is not received he specified time.			V Temperature condition: - None							- CC message: none - US emissions warning				
MEVD17.2-	The diagnostic function monitors reception of				Potenti - Fax	al problem source(x) This or con	s fault is logged in the ontrol module's fault		Time condition: - None Other conditions:							lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notic	
BN2000 Gx28D7 15319 PT-CAN, no message (vehicle speed, 140)	0): the message.	U1118	Lost Communication With Speed	Communication	Speed -	control module me	errory immediately.	Terminal 15	- none Voltage condition:	- None	- None NO	CAN message	N	Fault with transmitting control module	- Cany out system analysis.	-CC message: none lamp: of	0008	Norm	Norm	None
					The fac	ult is recognized when			voltage between 9 V and 15 V							- CLC: electronic engine power reduction: off - CC message: none				
					the men in th	needs is not received the specified time.			- Amperature condition: - None Time condition: News							- US emissions warning lamp: of				
MEVD17.2- BN2000 0x28D6 15320 PT-CAN, no message (transmission data 2 1A2);	2, The diagnostic function monitors reception of the message.				Potenti - Fax	as problem source(x) This uit with transmitting con control module me	s rault is logged in the ontrol module's fault sentory immediately.	Terminal 15	- rione Other conditions: - none	- None	- None NO	CAN message	N	- Fault with transmitting control module	- Carry out system analysis.	- uS electronic engine power reduction: off - CC message: none	none	Possible apparent symptoms: None	Breakdown notic None	Norse

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 | | Voltage condition:
- Onboard electrical syst
voltage between 9 V and | 5 |
 |
 | | | ECE electronic engine
power reduction: off |
 | | | |
| |

 | | | | | The fault is recognized when
the message is not received
in the specified time.
 | | V
Temperature condition:
- None | |
 |
 | | | - CC message: none
- US emissions warning |
 | | | |
| MEVD17.2- |

 | | The diagnostic function monitors reception of | | | Potential problem source(x)
- Fault with transmitting
 | The diagnostic fault code is
logged when the fault
remains present for longer | Time condition:
- None
Other conditions: | |
 |
 | | | lamp: off
- US electronic engine power
reduction: off |
 | Possible apparent symptoms: | Breakdown notice: | |
| BN2000 0 | 15321 (state)

 | PT-CAN, message (DKG status, 37D): missing | the message. | | | control module
 | than 1 min. | Terminal 15 - none | - None - None | NO
 | CAN message N
 | - Fault with transmitting or | - Cany out system a | nalysis CC message: none
- ECE emissions warning
lamp: off | Only in vehicles with throttle valve sensor
 | None | Norse | Noni |
| |

 | | | | | The fault is recognized when
the keep-alive counter has
not timed the message and
 | | Onboard electrical system
voltage between 9 V and
V | 5 |
 |
 | | | ECE electronic engine
power reduction: off
- CC message: none |
 | | | |
| |

 | | | | | the message checksum is
incorrect.
 | | Temperature condition:
- None
Time condition: | |
 |
 | | | MY11 US:
- US emissions warning
Jamp: on |
 | | | |
| MEVD17.2-
BN2000 | x38DA 15322

 | PT-CAN, message (transmission data 3, 381):
checksum wrong/ alive check | The diagnostic function monitors the currency
and the checksum of the message. | | | Potential problem source(x)
- Fault with transmitting
control module
 | This fault is logged in the
control module's fault
memory immediately. | - None
Other conditions:
Terminal 15 - none | - None - None | NO
 | CAN measure N
 | - Fault with transmitting co | troi module - Cany out avatem a | - US electronic engine power
reduction: off
- CC message: on | Only active with throttle-valve sensor vehicles
 | Possible apparent symptoms:
None | Breakdown notice:
None | None |
| |

 | | | | |
 | | Voltage condition: | |
 |
 | | | - ECE emissions warning
lamp: off |
 | | | |
| |

 | | | | | The fault is recognized when
 | | - Onboard electrical syst
voltage between 9 V and
V | 5 |
 |
 | | | ECE electronic engine
power reduction: off
- CC message: none |
 | | | |
| |

 | | | | | the message is not received
in the specified time.
 | | Temperature condition:
- None
Time condition: | |
 |
 | | | MY11 US:
- US emissions warning
lamp: on |
 | | | |
| MEVD17.2-
BN2000 | ×38DB 15323

 | PT-CAN, no message (transmission data 3, 381): | The diagnostic function monitors reception of
the message. | | | Potential problem source(x)
- Fault with transmitting
control module
 | This fault is logged in the
control module's fault
memory immediately. | - None
Other conditions:
Terminal 15 - none | - None - None | NO
 | CAN message N
 | - Fault with transmitting co | trol module - Carry out system a | - US electronic engine power
reduction: off
nalysis CC message: on | Only active with throttle-valve sensor vehicles
 | Possible apparent symptoms:
None | Breakdown notice:
None | None |
| |

 | | | | |
 | | Voltage condition: | |
 |
 | | | ECE emissions warning
lamp: off |
 | | | |
| |

 | | | | | The fault is recognized when
the keep-alive counter has
not timed the message and
 | | - Onboard electrical syst
voltage between 9 V and
V | 5 |
 |
 | | | ECE electronic engine
power reduction: off
- CC message: none |
 | | | |
| |

 | | | | | the message checksum is
incorrect.
 | | - None
Time condition: | |
 |
 | | | - US emissions warning
lamp: on |
 | | | |
| MEVD17.2-
BN2000 | x38DC 15324

 | PT-CAN, message (electronic transmission
control torque request, B5): checksum wrong/
alive check | The diagnostic function monitors the currency
and the checksum of the massage. U11C9 | Message Monitoring Tonque Request ETC Check
Sum Errori Nive Check Co | Communication Torque Request AT | Potential problem source(x)
- Fault with transmitting
control module
 | This fault is logged in the
control module's fault
memory immediately. | - None
Other conditions:
Terminal 15 - none | - None - None | NO
 | CAN message N
 | - Fault with transmitting co | trol module - Carry out system a | - US electronic engine power
reduction: off
nalysis CC message: on | Only in vehicles with EGS
 | Possible apparent symptoms:
EGS limp-home program | Breakdown notice:
None | None |
| |

 | | | | |
 | | Voltage condition: | |
 |
 | | | - ECE emissions warning
lamp: off |
 | | | |
| |

 | | | | | The fault is recognized when
 | | voltage between 9 V and
V | 5 |
 |
 | | | power reduction: off
- CC message: none
Most UP |
 | | | |
| |

 | | | | | in the specified time.
 | This fact is barred in the | - None
Time condition: | |
 |
 | | | - US emissions warning
lamp: on |
 | | | |
| MEVD17.2-
BN2000 | x3800 15325

 | PT-CAN, no message (electronic transmission
control torque request, B5): | The diagnostic function monitors reception of the message. U110F | Lost Communication With Torque Request ETC Co | Communication Torque Request AT | Fault with transmitting control module
 | control module's fault
memory immediately. | - None
Other conditions:
Terminal 15 - none | - None - None | NO
 | CAN message N
 | - Fault with transmitting co | trol module - Carry out system a | - US exchortic engine power
reduction off
- CC message: on | Only in vehicles with EGS
 | Possible apparent symptoms:
EGS imp-home program | Breakdown notice:
None | None |
| |

 | | | | | The fault is recognized when the keep-alive counter has
 | | Voltage condition:
- Onboard electrical system
voltage between 9 V and | 5 |
 |
 | | | lamp: off
- ECE electronic engine
power reduction: off |
 | | | |
| |

 | | | | | not timed the message and
the message checksum is
 | | V
Temperature condition: | |
 |
 | | | - CC message: none |
 | | | |
| |

 | | | | | Potential problem source(x)
 | This fault is logged in the | Time condition:
- None
Other employment | |
 |
 | | | lamp: off
- US electronic engine power |
 | | | |
| BN2000 0 | 538DE 15326

 | request, 53) checksum wrong/ slive check | and the checkson of the message. | + | | control module
 | memory immediately. | Terminal 15 - none
Voltage condition: | - None - None | NO
 | CAN message N
 | - Fault with transmitting or | trol module - Cany out system a | nalysis CC message: none
lamp: off | Only in vehicles with throttle valve sensor
 | Nore | None | None |
| |

 | | | | | The fault is recognized when
 | | - Onboard electrical syst
voltage between 9 V and
V | 5 |
 |
 | | | ECE electronic engine
power reduction: off
- CC message: none |
 | | | |
| |

 | | | | | the message is not received
in the specified time.
 | | Temperature condition:
- None
Time condition: | |
 |
 | | | - US emissions warning
lamo: off |
 | | | |
| MEVD17.2-
BN2090 | 6380F 15177

 | PT-CAN, no message (twin-clutch gearbox
torque request. 8 ⁽³⁾ | The diagnostic function monitors reception of
the massage. | | | Potential problem source(x)
- Fault with transmitting
control mystele
 | This fault is logged in the
control module's fault
memory immediately | - None
Other conditions:
Terminal 15 - norm | - None - None | ND
 | CAN message IN
 | - Fact with transmittee - | trol module - Canv out acrime - | - US electronic engine power
reduction: off
- CC greases - norm | Only in vehicles with throttle value sensor
 | Possible apparent symptoms:
None | Breakdown notice:
None | Nome |
| |

 | | | | | The fault is recognized when
 | , | Voltage condition:
- Onboard electrical syste | |
 |
 | | Carry on system i | ECE electronic engine |
 | | | |
| |

 | | | | | the keep-alive counter has
not timed the message and
the message checksum is
 | | voltage between 9 V and
V
Temperature condition | |
 |
 | | | power reduction: off
- CC message: none |
 | | | |
| |

 | | | | | incorrect.
Potential problem source(+>
 | This fault is logged in the | - None
Time condition:
- None | |
 |
 | | | - US emissions warning
lamp: off
- US electronic engine movem |
 | | | |
| MEVD17.2-
BN2000 0 | 15328

 | PT-CAN, message (gearbox data, BA):
Checksum wrong/ alive check | The diagnostic function monitors the currency
and the checksion of the message. | | | - Fault with transmitting
control module
 | control module's fault
memory immediately. | Celter conditions:
Terminal 15 - none | - None - None | NO
 | CAN message N
 | - Fault with transmitting co | trol module - Carry out system a | netwis. | Date
 | Possible apparent symptoms:
None | Breakdown notice:
None | Norm |
| |

 | | | | |
 | | voltage condition:
- Onboard electrical system
voltage between 9 V and | 8 |
 |
 | | | ECE electoric engine
power reduction: off |
 | | | |
| |

 | | | | | The fault is recognized when
 | | V
Temperature condition:
- None | |
 |
 | | | - CC message: none
- US emissions warning |
 | | | |
| MEVD17.2- |

 | | The diagnostic function monitors the wire for
vottage supply of Terminal 15%_3 and Terminal | | | no voltage is present.
Potential problem source(s):
 | This fault is logged in the
control module's fault | Time condition:
- None
Other conditions: | |
 |
 | | - Check wiring h
- Replace PDM (powers | amesa - US electronic engine power
apply module) reduction: off |
 | Possible apparent symptoms: | Breakdown notice: | |
| BN2000 0 | w38E1 15329

 | PT-CAN, message (gearbox data, BA): missing | 91.67_3 | | | - Witing harness defective
 | memory immediately. | Terminal 15 - none
Voltage condition: | - None - None | NO
 | CAN message N
 | - Wring harness de | ective - Replace D | AE - CC message: none
lamp: of | none
 | None | None | None |
| |

 | | | | | The fault is recognized when
 | | voltage between 9 V and
V | 5 |
 |
 | | | - ELE electronic anglite
power reduction: off
- CC message: none |
 | | | |
| |

 | | | | | the level of the intervention
force is implausible
 | | Temperature condition:
- None
Time condition: | |
 |
 | | | - US emissions warning
lamp: off |
 | | | |
| MEVD17.2-
BN2000 | w38E2 15330

 | PT-CAN, message (win-dutch gearbox speed
control, B8): monitoring intervention | The diagnostic function monitors the requested
intervention force of the throttle valve sensor | | | Potential problem source(x)
- Fault with transmitting
control module
 | This fault is logged in the
control module's fault
memory immediately. | - None
Other conditions:
Terminal 15 - none | - None - None | NO
 | FR masage N
 | - Fault with transmitting or | trol module - Carry out system a | - US electronic engine power
reduction: off
- CC message: none | nane
 | Possible apparent symptoms:
None | Breakdown notice:
None | None |
| MEVD17.2-
BN2000 0 | w38E7 15335

 | | | | |
 | | Voltage condition: | |
 |
 | | | lamp: of |
 | | | |
| |

 | | | | | The fault is recognized when
the keep-alive counter has
not timed the message and
 | | - Onboard electrical syst
voltage between 9 V and
V | 5 |
 |
 | | | ECE electronic engine
power reduction: off
- CC message: none |
 | | | |
| |

 | | | | | the message checksum is
incorrect.
 | | Temperature condition:
- None
Time condition: | |
 |
 | | | - US emissions warning
lamo: off |
 | | | |
| MEVD17.2- |

 | PT-CAN, message (cruise control operation, | The diagnostic function monitors the currency | | | Potential problem source(x)
- Fault with transmitting
exceeded exceeded
 | This fault is logged in the
control module's fault
measure immediately. | - None
Other conditional | Norma Norma |
 |
 | Ford with home-lifest | | - US electronic engine power
reduction: of |
 | Possible apparent symptoms: | Breakdown notice: | News |
| |

 | | | | |
 | | Voltege condition: | |
 |
 | | | lamp: off |
 | | | |
| |

 | | | | |
 | | - Onboard electrical syst | | 1
 |
 | | | ECE electronic engine |
 | | | |
| |

 | | | | | The fault is recognized when the message is not received
 | | - Onboard electrical syst
voltage between 9 V and
V
Temperature condition | 5 |
 |
 | | | ECE electronic engine
power reduction: off
- CC message: none |
 | | | |
| |

 | | | | | The fault is recognized when
the message is not received
in the specified time.
Potential problem source(s):
 | This fault is logged in the | - On-board electrical syste
voltage between 9 V and
V Temperature condition
- None
Time condition:
- None | 5
5 |
 |
 | | | ECE electronic engine
power reduction: off
CC message: none
US emisations warning
lang: off
US electronic engine power |
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 | PT-CAN, message (cruise control operation,
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								The fault is recognized when			Voltege condition: - Onboard electrical system voltege between 9 V and 15 V							lamp: off - ECE electronic engine power reduction: off - CC message: none				
								the message is not received in the specified time.	The diagnostic fault code is	1	Temperature condition: - None Time condition:							- US emissions warning lamp: off				
MEVD17.2- BN2000 0x0	1095 52629	PT-CAN, measage (light status, 21A): missing	The diagnostic function monitors reception of the message.					Potential problem source(x) - Fault with transmitting control module	logged when the fault remains present for longer than 2 min.	Terminal 15	- None Other conditiona: - none	None - None	ND	AN message N	- Fault w	with transmitting control module	- Cany out system analysis.	US electronic engine power reduction: off - CC message: none	nane	Possible apparent symptoms: None	Breakdown notice: None	None
								The facilitie reconstruct when			Voltage condition: - Onboard electrical system voltage between 9 V and 15 V							lamp: off - ECE electronic engine power reduction: off - CC message: more				
								the message is not received in the specified time.	The diagnostic fault code is	1	Temperature condition: - None Time condition:							- US emissions warning lamp: off				
MEVD17.2- BN2000 0x0	D98 52632	PT-GAN, no message (haller status, 204);	The diagnostic function monitors reception of the missaige.					Potential problem source(x) - Fault with transmitting control module	logged when the fault remains present for longer than 1 min.	Terminal 15	- None Other conditions: - none	None - None	NO (AN message N	- Fault w	with transmitting control module	- Carry out system analysis.	US electronic engine power reduction: off <u>CC message: none</u>	nate	Possible apparent symptoms: Note	Breakdown notice: None	None
											Voltage condition: - Onboard electrical system voltage between 9 V and 15							lamp: off - ECE electronic engine power reduction: off				
								the message is not received in the specified time.	The diagnostic fault code is		v Temperature condition: - None Time condition:							US emissions warning lamp; off				
MEVD17.2- BN2000 0xd	D98 52635	PT-CAN, no message (tima/date, 2F8):	The diagnostic function monitors reception of the message.					Potential problem source(x): - Fault with transmitting control module	logged when the fault remains present for longer than 2 min.	Terminal 15	- None Other conditions: - none	None - None	NO	AN message N	- Fault w	with transmitting control module	- Carry out system analysis.	US electronic engine power reduction: off CC message: none	none	Possible apparent symptoms: None	Breakdown notice: None	None
								The fault is recognized when the actuator for the radiator vent slats reports an internal			Voltage condition: - Onboard electrical system voltage between 9 V and 15							temp: off - ECE electronic engine power reduction: off				
								electrical fault via the LIN bus.		1	V Temperature condition: - None							- CC message: none				
MEVD17.2-	050 52637	PT-CAN, message (vehicle mode, 315): Charleum incomert	The diagnostic function monitors the currency and the checksom of the message					Defective radiator vent slat assembly (internal electrical fact H-bridge)	This fault is logged in the control module's fault memory immediately	Terminal 15	- None Other conditions:	Nine - Nine	NO	AN message N	- Defective ra	radiator vent sist assembly (internal abertrinel fault Hubridge)	. Carry red waters installed	- US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	Nina
											Voltage condition: - Onboard electrical system unitable between 9 V and 15							lamp: off - ECE electronic engine rower reduction: off				
								The fault is recognized when the message is not received in the specified time.		-	V Temperature condition: - None							- CC message: none				
MEVD17.2-			The diagnostic function monitors reception of					Potential problem source(x) - Fault with transmitting	This fault is logged in the control module's fault		Time condition: - None Other conditions:							lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN200 00	THE 27039	PT-CAR, message (vence mode, 315); missing	Tie massage.					control module	marriery intractationy.	iemina is	- none Voltage condition: - Onboard electrical system	- None	NG C	N. N	- Factor	with transmissing control module	- Carry our system analysis.	Lamp: off - ECE electronic engine	nore	NORM	NONE	NONE
								The fault is recognized when the message is not received in the specified time.		1	Votege between 9 V and 10 V Temperature condition: - None							- CC message: none - US emissions warming				
MEVD17.2-		PT-CAN, message (power management,	The diagnostic function monitors reception of					Potential problem source(x) - Fault with transmitting	The diagnostic fault code is logged when the fault remains present for longer		Time condition: - None Other conditions:							lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000 0x0	IDA1 52541	charging voltage, 334): missing	the message.					control module	than 1 min.	Terminal 15	- none Voltage condition: - Onboard electrical system	None - None	NO (AN message N	- Fault w	with trainamitting control module	- Cany out system analysis.	- CC message: none lamp: off - ECE electronic engine	none	None	None	None
								The fault is recognized when the message is not received in the snartfed time.			voltage between 9 V and 15 V Temperature condition:							- CC message: none - IC amissings warring				
MEVD17.2-		PT-CAN, message (soft top, convertible status,	The diagnostic function monitors reception of					Potential problem source(x) - Fault with transmitting	This fault is logged in the control module's fault	1	Time condition: - None Other conditions:							lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000 0x6	DA2 52542	0x27E) missing	for message.					control module	memory immediately.	Terminal 15	- none Voltage condition: - Onboard electrical system	None - None	ND F	R message N	- Fault w	with transmitting control module	- Cany out system analysis.	ECC message none lamp: of ECE electronic engine	DODE	None	None	Non
								The fault is recognized when the message is not received		1	voltage between 9 V and 15 V Temperature condition:							power reduction: off - CC message: none				
MEVD17.2		PT-CAN to messive (revenue ceut shifts)	The diamostic function members recentling of					Potential problem source(x)	The diagnostic fault code is logged when the fault remains measure for lower	1	- None Time condition: - None Other conditions:							US emissions warning lamp: off US electronic engine power reduction: off		Drouble arranged summings-	Breakdown rotine-	
BN2000 0x0	DA4 52544	380);	the message.					control module	than 1 min.	Terminal 15	- none Voltage condition:	None - None	NO	AN message N	- Fault w	with transmitting control module	- Carry out system analysis.	- CC message: none Oni lamp: off	y relevant for manual transmission vehicles	Accelerator pedal progression failure	- 1018	- 1018
								The fault is recognized when the requested torque is			voltage between 9 V and 15 V Temperature condition:							power reduction: off - CC message: none				
MEDITZ			The documents function encoders the second of					invalid. Potential problem source(x)	This fault is logged in the		- None Time condition: - None							US emissions warning lamp: off US electronic engine power mototion: off		Provide and an ender	Resolution estimation	
BN2000 0x0	DAS 52545	B1): AFS/STE disabled or steering torque invalid	torque.					control module	memory immediately.	Terminal 15	- none Voltage condition:	None - None	NO 1	orque request Y	- Fault w	with transmitting control module	- Carry out system analysis.	- CC message: none lamp: off	none	AFS failure	Norm	Nore
								the keep-alive counter has not timed the message and the message checksum is			voltage between 9 V and 15 V Temperature condition:							power reduction: off - CC message: none				
MEDITZ			The descent is funding and the second					Potential problem source(x)	This fault is logged in the		- None Time condition: - None							US emissions warning lamp: off US electronic engine power monitorion off		Provide and an ender	Burnham antion	
BN2000 0xd	IDA6 52546	B1): checksum wrong	and the checksum of the message.					control module	memory immediately.	Terminal 15	- none Voltage condition:	None - None	NO	AN message N	- Fault w	with transmitting control module	- Cany out system analysis.	- CC message: none lamp: off	none	AFS failure	None	None
								The fault is recognized when the message is not received			- Unocard electrical system voltage between 9 V and 15 V Temperature condition:							- CC electoric ergine power reduction: off - CC message: none				
								in the specified time. Potential problem source(x):	This fault is logged in the	-	- None Time condition: - None							- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 0x0	DA7 52647	PT-CAN, no message (torque request, steering, B1):	The diagnostic function monitors reception of the message.					Fault with transmitting control module	control module's fault memory immediately.	Terminal 15	Other conditions: - none Voltage condition:	None - None	NO	AN message N	- Fault w	with transmitting control module	- Cany out system analysis.	CC message: none	none	Possible apparent symptoms: AFS failure	Breakdown notice: None	None
								The fault is recognized when the requested torque is			- Onboard electrical system voltage between 9 V and 15 V Temperature condition:							ECE electronic engine power reduction: off - CC message: none				
								invalid. Potential problem source(x):	This fault is logged in the	-	- None Time condition: - None							- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 0x0	DA8 52545	PT-CAN, message (torque request, AFS, B9) AFS/STE disabled or steering torque invalid	The diagnostic function monitors the requested torque.					Fault with transmitting control module	control module's fault memory immediately.	Terminal 15	Other conditions: - none Voltage condition:	None - None	NO	orque request Y	- Fault w	with transmitting control module	- Cany out system analysis.	reduction: off - <u>CC message: none</u> lamp: off	nore	Possible apparent symptoms: AFS failure	Breakdown notice: None	Norm
								the taut is recognized when the keep-alive counter has not timed the message and the message checksum is			 Unboard electrical system voltage between 9 V and 15 V Temperature conditions 							- ECE electronic engine power reduction: off - CC message: none				
								incorrect. Potential problem source(x):	This fault is logged in the	-	- None Time condition: - None							US emissions warning lamp: off US electronic engine power				
MEVD17.2- BN2000 0x0	20.49 52549	PT-CAN, message (longue request, AFS, B9) checksum wrong	The diagnostic function monitors the currency and the checksum of the message.					Fault with transmitting control module	control module's fault memory immediately.	Terminal 15	Other conditions: - none Voltage condition:	None - None	NO	AN message N	- Fault w	with transmitting control module	- Carry out system analysis.	reduction: off - CC message: none lamp: off	nore	Possible apparent symptoms: APS failure	Breakdown notice: None	Norm
								The fault is recognized when			Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: off - CC message: none				
								in the specified time. Potential problem source(x)	This fault is logged in the		- None Time condition: - None							US emissions warning lamp: off US electronic engine power				
MEVD17.2- BN2000 0x0	DAA 52650	PT-CAN, no message (torque request, AFS, 82):	The diagnostic function monitors reception of the message.					Fault with transmitting control module	control module's fault memory immediately.	Terminal 15	Other conditions: - none Voltage condition:	None - None	NO	AN message N	- Fault w	with transmitting control module	- Carry out system analysis.	reduction: off - CC message: none lamp: off	nore	Possible apparent symptoms: APS failure	Breakdown notice: None	Nore
								The fault is recognized when the keep-alive counter has not timed the message and the message and			Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: off - CC message: none				
								incorrect.	This fault is logged in the	1	- None Time condition: - None							- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 0x0	DAB 52651	PT-CAN, message (wheel torque request, drive train, front passenger side): Alive check	The diagnostic function monitors the currency and the checksum of the message.					Fault with transmitting control module	control module's fault memory immediately.	Terminal 15	Other conditions: - none Voltage condition:	None - None	NO	AN message N	- Fault w	with transmitting control module	- Cany out system analysis.	reduction: off - CC message: none lamp: off	none	Possible apparent symptoms: Cruise control failure	Breakdown notice: None	None
								The fault is recognized when the keep-alive counter has not timed the message and			- Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: off - CC message: none				
								incorrect.	This fault is logged in the	-	- None Time condition: - None							- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 0x0	DAC 52652	PT-CAN, message (wheel torque request, drive train, front passenger aide): Checksum incorrect	The diagnostic function monitors the currency and the checksum of the message.					Fault with transmitting control module	control module's fault memory immediately.	Terminal 15	Other conditions: - none Voltage condition:	None - None	NO	AN message N	- Fault w	with transmitting control module	- Cany out system analysis.	reduction: off - CC message: none lamo: off	none	Possible apparent symptoms: Cruise control failure	Breakdown notice: None	None
								The fault is recognized when			- Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: off - CC message: none				
								Potential problem source(s)	This fault is logged in the		- None - None Time condition: - None							- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 0x0	DAD 52653	PT-CAN, message (wheel torque request, drive train, front passenger side); missing	The diagnostic function monitors reception of the message.					- Fault with transmitting control module	control module's fault memory immediately.	Terminal 15	Other conditions: - none Voltage condition:	None - None	NO	AN message N	- Fault w	with transmitting control module	- Cany out system analysis.	reduction: off - CC message: none lamp: off	.0208	Possible apparent symptoms: Cruise control failure	Breakdown notice: None	Norm
								The fault is recognized when			- Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: off - CC message: none				
								e message is not received in the specified time. Potential problem source(s)	This fault is logged in the		-w-openature condition: - None Time condition: - None							- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 0x0	2080 52555	PT-CAN, no message (steering wheel angle, C4):	The diagnostic function monitors reception of the missiage.					Fault with transmitting control module	control module's fault memory immediately.	Terminal 15	Other conditions: - cone	None - None	NO	AN message N	-Fast w	with transmitting control module	- Cany out system analysis.	reduction: off - CC message: none - ECE emissions warning	none	Possible apparent symptoms: None	Breakdown notice: None	Norm
											Voltage condition: - Onboard electrical system voltage between 9 V and 15							lamp: off - ECE electronic engine power reduction: off				
								The fault is recognized when a hardware fault is present in fea C-M exchange.		1	V Temperature condition: - None Two exection							- CC message: none MY11 US: - US emissions warning		Possible apparent symptoms: - No techometer display in the instrument cluster DIC follows		
MEVD17.2- BN2000 0x0	2081 52657	PT-CAN communication fault: DPRAM CAN module faulty	The diagnostic function monitors the CAN controller in the DME.	P3201 F	Powertrain CAN, DPRAM-CAN Chip Defective	Communication	Powertrain	Potential problem source(x) - DME defective	This fault is logged in the control module's fault memory immediately.	Terminal 15	- None Other conditions: - none	None - None	ND	ane N		- DME defective	- Replace DME	- US electronic engine power reduction: off - CC message: on	none	Automatic transmission in Imp-home mode Drief rpm drop when HKA automatic climate control is activated at idle	Breakdown notice: None	Norw
MEVD17.2- BN2000 0x0	082 52558										Voltage condition:							lamp: off				
								The fault is recognized when the torque is needed that the			- unboard electrical system voltage between 9 V and 15 V Temperature covers-							ECE electronic engine power reduction: off - CC message: none				
								requested torque. Potential problem source(s)	This fault is logged in the		- None Time condition: - None							- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 0x0	52659	PT-CAN, message (torque request AFS, B9): torque loss too great	The diagnostic function monitors the requested torque.					Fault with transmitting control module	control module's fault memory immediately.	Terminal 15	Other conditions: - none Voltage condition:	None - None	NO 1	orgue request Y	- Fault w	with transmitting control module	- Cany out system analysis.	reduction: off - CC message: none lamp: off	none	Possible apparent symptoms: APS failure	Breakdown notice: None	None
								The fault is recognized when			- Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: off - CC message: none				
								-e message is not received in the specified time. Potential problem procession	The diagnostic fault code is logged when the fault		-w-openature condition: - None Time condition: - None							- US emissions warning lamp: off - US electronic engine review				
MEVD17.2- BN2000 0x0	2084 52550	Service (0x5E0, OBD sensor, diagnostic status): missing	The diagnostic function monitors reception of the message.	U1169	Lost Communication with OBD-Sensor			Fault with transmitting control module	remains present for longer than 1 min.	Terminal 15	Other conditions: - none Voltage condition:	None - None	ND	AN message N	- Fault w	with transmitting control module	- Carry out system analysis.	reduction: off - CC message: none lamo: off	none	Possible apparent symptoms: None	Breakdown notice: None	None
								The fault is recognized when			- Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: off - CC message: none				
								vie torque is greater than the requested torque. Potential problem source(s)	This fault is logged in the		-w-openature condition: - None Time condition: - None							- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 0x0	2006 52652	PT-CAN, message (torque request, steering, BT): torque loss too great	The diagnostic function monitors the requested longue.					Fault with transmitting control module	control module's fault memory immediately.	Terminal 15	Other conditions: - foote Voltage condition:	None - None	NO	orgue request	- Fast y	with transmitting control module	- Carry out system analysis.	reduction: off -CC message: none.y lamp: off	0208	Possible apparent symptoms: APS failure	Breakdown notice: None	Norm
								The fault is recognized when			- Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: off - CC message: none				
								the message is not received in the specified time.	The diagnostic fault code is looged when the fault		Temperature condition: - None Time condition: - None							- US emissions warning lamp: off				
MEVD17.2- BN2000 0x0	DB7 52553	PT-CAN, message (fuel pump status, 335): missing	The diagnostic function monitors reception of the message.					Fault with transmitting control module	remains present for longer than 1 min.	Terminal 15	Other conditions: - none	None - None	NO	AN message N	- Fault w	with transmitting control module	- Cany out system analysis.	reduction: off - CC message: none	noné	Possible apparent symptoms: None	Breakdown notice: None	None

MEVD17.2-	2															
BN2000	0xCDB8 53	14														
MEVD17.2-	2				1	1	1	1	1	1				1		
BN2000	0xCDB9 53	15		1						1						
MEVD17.2			1	1	1	1	1		1	1	1			1		1
BN2000	DVCDBA 5	8					1									