

VIN: FS00287 Vehicle: 3' / E46 / SEDAN / 330d / M57 / MANUAL / EUR LL / 1999 / 10
 System version: 2.35.8 Data version: 2.35.3

Dealer

Egypt Ltd.
 12-34 Pharaon St.
 34512 Cairo
 مصر

Order number:
 Guide number:
 Contact for queries:

Sales partner number: 54321

Dealership number: 1

ISTA order

ISPA Guid: --- System version: 2.35.8
 TeleService ID: --- Data version: 2.35.3
 Order start: 02/01/2014 19:57:22 (ISID, 50:50:54:50:30:30)

Vehicle identification: VIN readout**Vehicle data:**

Vehicle identification number:	WBAAL91020FS00287	Model code:	AL91	National-market version:	EUR
Brand:	BMW PKW	Sales designation:	330d	Development code:	E46
Model series:	3'	Drive:	REAR WHEEL	Bodywork form:	SEDAN
Engine:	M57	Capacity:	30		
Steering:	LL	Gearbox:	MANUAL		
Model year:	1999 / 10	Total distance covered:	228311 km		
Integr. level (actual):	---	Integration level factory:	---		
ZCS:	C1 67810000F-C2 00002A00043CF020M-C3 00004896FB4				

Vehicle test (start of diagnosis)

19:59:06 - 19:59:49

<u>Status</u>	<u>System</u>	<u>ECU variant</u>
responding	GM - base module 5	zke5
responding	DDE - Diesel Electronics	dde40kw0
responding	EWS - Electronic immobilizer 3	ews3
responding	MFL - Multifunction steering wheel	mfl2
responding	ASC - stability control MK20	ascmk20
responding	IHKA - Automatic heating/air conditioning	ihka46_2
responding	PDC - Park Distance Control	pdcact
Communication error	RAD - Radio	

responding	KOMBI - Instrument cluster	kombi46
responding	MRS - Multiple Restraint System	mrs3
responding	LSZ - Light switching centre	lsz
responding	AIC - Automatic Interval Control	aic
responding	SZM - Centre console control panel	szm46

Fault memory list

Code	Description
94	ASC: CAN data fault from DME/DDE
11	ASC: Wheel-speed sensor, front left
1A04	DDE: Electric auxiliary heater
404	DDE: Exhaust-gas recirculation
3505	DDE: Glow-plug system
1E25	DDE: Monitoring, speed sensor
3D	GM: Boot-lid unlocking: mechanism
42	GM: Burglar-al. system: pass.-compart. sensor
2	GM: Central locking: fuse
1	GM: Interior light, washer pump: fuse
3B	GM: Interior lights, short circuit
10	GM: Pow win: anti-trapp mechan passenger, rear
D	GM: Pow. win.: anti-trapp. mechan. driver's door
E	GM: Pow. win: anti-trapp. mechan. passenger door
F	GM: Pow. win: anti-trapping mechan. driver, rear
C	GM: Power window: motor or relay passenger, rear
B	GM: Power window: motor or relay, driver, rear
8	GM: Power windows: fuse
7	GM: Signal STDWA (only relevant if an anti-theft alarm is fitted)
33	GM: Wipers: interlock active
81	GM: DWA alarm memory: door contact, driver's door
88	GM: DWA alarm memory: engine bonnet
8A	GM: DWA alarm memory: passenger-comp. sensor, front
89	GM: DWA alarm memory: pitch sensor
87	KOMBI: K bus
D7	KOMBI: Tank lever-type sensor 2
1F	LSZ: Activ'n, motor for headlight-range adjust. 1
20	LSZ: Activ'n, motor for headlight-range adjust. 2
22	LSZ: Front load sensor, short circuit to negative
1A	MRS: Seat occupancy recognition 1 (SBE1)
14	PDC: Transducer, front left
16	PDC: Transducer, front middle left
17	PDC: Transducer, front middle right
15	PDC: Transducer, front right
S 0001	No communication possible with: Radio

Control unit function - DDE Diesel Electronics		20:33:56 - 20:36:57
Action	Function	Result
IDENT	Revision index	25
	ECU version	DDE40KW0
	BMW part number	7789376
	Diagnosis index	16
	Date of manufacture, year	01
	Software number	C0
	Bus index	60
	Date of manufacture (calendar week)	30
IDENT_AIF	Number of result blocks	1
	Programming operations carried out	3
	Vehicle identification number	WBAAL91020FS00287
	Revision index	25
	Programming date	01.10.03
	Part number, basic control unit	7789376
	Date of manufacture, year	01
	Number of result blocks	1
	Part number, programmed control unit	7789414
	Bus index	60
	Type approval number (official number)	7785464
	Date of manufacture (calendar week)	30
	Diagnosis index	16
	Software number	C0
STATUS_ADMADF	Atmospheric pressure	988
	Anzahl Ergebnis-Blocke	1
STATUS_ADMUBT	Battery voltage	12.1169295954
	Anzahl Ergebnis-Blocke	1

Fault memory list		19:59:54 - 20:16:42
Code	Description	
3B	GM: Interior lights, short circuit	
22	LSZ: Front load sensor, short circuit to negative	
1A	MRS: Seat occupancy recognition 1 (SBE1)	
S 0001	No communication possible with: Radio	

Fault memory list		20:17:47 - 20:17:57
Code	Description	
3B	GM: Interior lights, short circuit	
22	LSZ: Front load sensor, short circuit to negative	
1A	MRS: Seat occupancy recognition 1 (SBE1)	
S 0001	No communication possible with: Radio	

Fault memory list		20:37:07 - 20:37:15
-------------------	--	---------------------

<u>Code</u>	<u>Description</u>
3B	GM: Interior lights, short circuit
22	LSZ: Front load sensor, short circuit to negative
1A	MRS: Seat occupancy recognition 1 (SBE1)
S 0001	No communication possible with: Radio

Fault memory list

20:40:25 - 20:42:36

<u>Code</u>	<u>Description</u>
3B	GM: Interior lights, short circuit
17	IHKA: Auxiliary water pump
22	LSZ: Front load sensor, short circuit to negative
1A	MRS: Seat occupancy recognition 1 (SBE1)
S 0001	No communication possible with: Radio

Fault memory list

20:59:49 - 20:59:58

<u>Code</u>	<u>Description</u>
3B	GM: Interior lights, short circuit
17	IHKA: Auxiliary water pump
22	LSZ: Front load sensor, short circuit to negative
1A	MRS: Seat occupancy recognition 1 (SBE1)
S 0001	No communication possible with: Radio

Delete fault memory

20:15:02 - 20:16:30

<u>Status</u>	<u>System</u>	<u>ECU variant</u>
responding	GM - base module 5	zke5
responding	DDE - Diesel Electronics	dde40kw0
responding	EWS - Electronic immobilizer 3	ews3
responding	MFL - Multifunction steering wheel	mfl2
responding	ASC - stability control MK20	ascmk20
responding	IHKA - Automatic heating/air conditioning	ihka46_2
responding	PDC - Park Distance Control	pdact
Communication error	RAD - Radio	
responding	KOMBI - Instrument cluster	kombi46
responding	MRS - Multiple Restraint System	mrs3
responding	LSZ - Light switching centre	lsz
responding	AIC - Automatic Interval Control	aic
responding	SZM - Centre console control panel	szm46

Fault memory list (delete fault memory)

<u>Code</u>	<u>Description</u>
3B	GM: Interior lights, short circuit
22	LSZ: Front load sensor, short circuit to negative
1A	MRS: Seat occupancy recognition 1 (SBE1)
S 0001	No communication possible with: Radio

Test plan (start of diagnosis)

<u>Identifier</u>	<u>Title, Documents, Symptoms,</u>	<u>Status</u>
	<u>Interior lights, front</u>	
ABL-DIT-B6330_00002	B6330_00002 - Interior lights GM: Interior lights, short circuit	Not called
	<u>Seat occupancy detection</u>	
ABL-DIT-B6510_30002	B6510_30002 - Front passenger seat occupancy detection: MRS: Seat occupancy recognition 1 (SBE1)	Not called
	<u>Supply, K bus, Hifi, Top Hifi</u>	
ABL-DIT-B9999_99999	B9999_99999 - Standard test module, notes	Not called
ABL-DIT-B6512_00011	B6512_00011 - Radio supply No communication possible with: Radio	Not called
	<u>Temperature control</u>	
ABL-DIT-F6450_00009	F6450_00009 - Temperature control	Not called
ABL-DIT-F6450_00004	F6450_00004 - Temperature control IHKA: Auxiliary water pump	Not called

Procedure

20:18:49 - 20:20:49

B1361_D4LRR - Smooth running control**Performed****Output****Result**

Start

G0000_000010

Predefined process

20:18:53 - 20:18:55

G0000_00001 - Determining vehicle basic features using vehicle communication**Performed****Output****Result**

Start

SG_Ermittlung_s

Pruefung_EWS_s

Pruefung_ZCS_s

Daten_Ermitteln_s

PostActions

Predefined process end

Meldung_00_s

Fault code memory being read...

Please wait!

G1361GL_D4FS10

Predefined process

20:18:58 - 20:19:03

G1361GL_D4FS1 - Read fault memory**Performed****Output****Result**

Start

Meldung_00_s

Values are being read from control unit.

PLEASE WAIT!

Fehlerspeicher_Lesen_01_s

PostActions

Predefined process end

Meldung_01_s

No fault codes are stored in the fault code memory.

Warmlaufen_s

Meldung_02_s

In the next test step the correction injection volumes are read out of the smooth running controller.

Note on problems concerning engine operation that occur outside the idle speed range:

The measurement can also be carried out with the engine speed slightly increased and the load increased (switch on load/engage drive stage).

The volume should be between the following limits for all cylinders:

Minimum: -5 mm³/H/ZMaximum: 4 mm³/H/Z

Run engine at idle speed.

Pruefung_Index_03_s

Pruefung_Laufruhe_05_s

Correction injection volume from smooth running regulator in mm³/stroke/cylinder:

Cylinder 1: -1.1

Cylinder 5: 0.3

Cylinder 3: 0.1

Cylinder 6: 1.6

Cylinder 2: 0.0

Cylinder 4: -1.5

OK: -5 to 4

Critical: Rate < -5 or > 4

Meldung_06_s

Were all values within the permissible limits?

Yes

For evaluation of the measured values, refer to SI 130400651!

PostActions

End test module. Continue in testing schedule.

Procedure

20:21:34 - 20:27:42

B1361_D4HFM - Mass air flow meter

Performed

Output**Result**

Start

G0000_000010

Predefined process

20:21:39 - 20:21:41

G0000_00001 - Determining vehicle basic features using vehicle communication

Performed

Output**Result**

Start

SG_Ermittlung_s

Pruefung_EWS_s

Pruefung_ZCS_s

Daten_Ermitteln_s

PostActions

Predefined process end

Meldung_00_s

Important!

In the event of problems such as lack of power, it is necessary to refer to SI 13 01 01 (690) for vehicles built before 01/2001!

Values are being read from control unit.

PLEASE WAIT!

Fehlerspeicher_Lesen_01_s

Status_Fuehler_02_s

Meldung_99_s

Note:

If the engine does not reach the specified test speed or cuts out again after start-up, check the following possible cause:

- EGR valve stuck in open position

The boost pressure and intake air temperature sensors are checked prior to the setpoint/actual value test of the mass air flow sensor.

The boost pressure sensor is checked with the engine stationary in the next test step.

Turn off engine.

Turn ignition lock to position 2.

Observe measurement.

Setpoint:

Boost pressure = Atmospheric pressure

Permissible deviation: +/-50 mbar

Measured:

Boost pressure: 995 mbar

Atmospheric pressure: 988 mbar

Difference: -7 mbar

If the setpoint was not reached, troubleshooting should be continued on the sensor that indicates an implausible value.
The intake air temperature sensor is checked in the next test step.

Run engine at idle speed.

Meldung_04_s

Caution!

The prerequisites in compliance with the test instructions must be fulfilled for the following tests.

In the following test steps, the air flow mass sensor is checked by means of setpoint/actual value comparison.

Pruefung_Fuehler_07_s

Run engine at idle speed.

Start the test by pressing arrow right button.

Test in progress, maintain engine speed ...

Values in kg/h:

- Calculated: 64.3

- Measured: 66.6

Engine speed: 749 rpm

Test in progress, maintain engine speed ...

Auswertung_77_s

Test ended.

Test being evaluated...

Please wait!

Meldung_04_s

Pruefung_Fuehler_07_s

Maintain engine speed of 3500 rpm with pedal position sensor.

Start the test by pressing arrow right button.

The measured values are read out automatically on reaching the necessary engine speed.

Test in progress, maintain engine speed ...

Values in kg/h:

- Calculated: 340.6

- Measured: 343.3

Engine speed: 3585 rpm

Test in progress, maintain engine speed ...

Auswertung_77_s

Test ended.

Test being evaluated...

Please wait!

Meldung_Werte_08_s

Caution!

The boost pressure was too low during the test.

Check following possible causes of fault:

- Vacuum supply for turbocharger adjustment defective
- B2264 Pressure converter for turbocharger control defective
- Fault in electrical activation of pressure converter
- Turbocharger defective (adjustment, turbine wheel, shaft)

For this purpose end this test module and work through corresponding test module in accordance with amended testing schedule.

The air mass measured values can be evaluated only to a limited extent in the following as a defect in the boost pressure control system has an effect on the setpoint/actual value test.

The setpoint/actual value test should be repeated, however, on completion of troubleshooting in the boost pressure control system.

Test results at idle speed

Values at idle speed in kg/h:

- Calculated: 64.4
- Measured: 66.6

Difference at idle speed: 2.2

Permissible difference: +/- 6.4

The setpoint was reached.

Test results at 3500 rpm

Values at 3500 rpm in kg/h:

- Calculated: 342.6
- Measured: 344.0

Difference at 3500 rpm: 1.5

Permissible difference: +/- 34.3

The setpoint was reached.

The setpoints were reached.

Meldung_09_s

No fault can currently be found in the tested component group.

No

Do you wish to carry out troubleshooting for the component group?

PostActions

After repairs on fuses, plug connectors, lines and plug-in connectors in warranty cases settle account under following defect codes:

Fuse >>_61130880

Component connector:

Not plugged in correctly >>_12510537
With damaged contact >>_12510579
Corrosion >>_12510575

Plug-in connector:
Not plugged in correctly >>_12510637
With damaged contact >>_12510679
Corrosion >>_12510675

Control unit connector:
Not plugged in correctly >>_12510337
With damaged contact >>_12510379
Corrosion >>_12510375

Lines in engine wiring harness:
Broken off >>_12511201
Chafed through >>_12511269
Open circuit, crimp defect >>_12511281
End test module. Continue in testing schedule.

Procedure

20:28:05 - 20:32:21

B1361_D4AGR - EGR controller**Performed****Output****Result**

Start

Meldung_00_s

Values are being read from control unit.

PLEASE WAIT!

G0000_000010

Predefined process

20:28:10 - 20:28:12

G0000_00001 - Determining vehicle basic features using vehicle communication**Performed****Output****Result**

Start

SG_Ermittlung_s

Pruefung_EWS_s

Pruefung_ZCS_s

Daten_Ermitteln_s

PostActions

Predefined process end

Fehlerspeicher_Lesen_01_s

Meldung_02_s

No fault code is stored for the assembly tested.

Meldung_18_s

Fehlerspeicher_Lesen_04_s

Status_Fuehler_02_s

Please adjust the following statuses on the vehicle:

- Turn engine on.

Once all statuses have been established on the vehicle, please press Next.

Two conditions must be satisfied for the following test:

- Coolant temperature = 50 ... 100°C
- Intake air temperature < 40°C

Measured:

Coolant temperature: 82.7 °C

Intake air temperature: 15.5 °C

Caution:

The measured values will be falsified if these conditions are not satisfied.

The exhaust gas recirculation is checked at idle speed in the next test step.

Now rev up briefly to ensure that EGR control is activated then continue by pressing the right arrow button.

Caution: After starting the measurement, wait for about 20 s to allow the measured values to stabilize.

Observe the measurement.

Setpoints at idle speed:

Air mass = 280 ... 340 mg/stroke air

Pulse duty factor = 65 % +/- 5

Measured:

Air mass: 496 mg/stroke air

Pulse duty factor: 80 %

Exhaust gas recirculation is tested at 2100 [rpm] in the next test step.

Maintain engine speed at approx. 2100 rpm.

Observe the measurement.

Setpoints at 2100 rpm:

Air mass = 296 ... 356 mg/stroke air

Pulse duty factor = 65 % +/- 5

Measured:

Air mass: 526 mg/stroke air

Pulse duty factor: 80 %

Engine speed: 2062 rpm

Were the setpoints reached?

Yes

Meldung_03_s

No fault can currently be found in the tested component group.

No

Do you wish to carry out troubleshooting for the component group?

PostActions

After repairs on fuses, plug connectors, lines and plug-in connectors in warranty cases settle account under following defect

codes:

Fuse >>_61130880

Component connector:

Not plugged in correctly >>_12510537

With damaged contact >>_12510579

Corrosion >>_12510575

Plug-in connector:

Not plugged in correctly >>_12510637

With damaged contact >>_12510679

Corrosion >>_12510675

Control unit connector:

Not plugged in correctly >>_12510337

With damaged contact >>_12510379

Corrosion >>_12510375

Lines in engine wiring harness:

Broken off >>_12511201

Chafed through >>_12511269

Open circuit, crimp defect >>_12511281

End of test module. Continue in testing schedule.

Procedure		20:43:19 - 20:46:33
F6450_00009 - Temperature control		Performed
<u>Output</u>		<u>Result</u>
Start		
Pruefung_Temperatur_01_s		
Is the engine at operating temperature?		Yes
Pruefung_Funktion_02_s		
Set blower to maximum stage.		
Set temperature setpoint(s) to maximum heating and air distribution to defroster nozzles.		
Check temperature at defroster nozzles.		
Is warm air blown out of the defroster nozzles?		Yes
Pruefung_Funktion_03_s		
Adjust temperature setpoint(s) to maximum cooling.		
Switch on air conditioning system.		
Check temperature at defroster nozzles after one minute.		
Did the air temperature drop at the defroster nozzles?		Yes
PostActions		
End test module. Continue in test plan.		
Procedure		20:53:16 - 20:54:12

B6135_00011 - EWS key status

Cancelled

OutputResult

Start

Status_Schluessel_01_s

Status_Schluessel_02_s

Please wait.

Vehicle identification number: WBAAL91020FS00287

Key

1: Used at least once

2: Used at least once

3: Used at least once

4: Used at least once

5: Used at least once

6: Used at least once

7: AKTIV

8: Never used

9: Never used

10: Never used

Do you wish to read the status of other keys?

Yes

Procedure**20:54:37 - 20:57:10****B6135_00010 - EWS key block/enable****Performed**OutputResult

Start

Status_lesen_01_s

Individual keys can be electronically disabled or enabled in the key disabling/enabling procedure.

Turn ignition lock to position 2.

- The status of the active key (currently inserted in ignition lock) cannot be changed.

- In order to disable or enable a key, the active key (currently inserted in ignition lock) must NOT be disabled and must transmit valid data.

- Apart from the active key (currently inserted in ignition lock) at least 1 further key must remain enabled.

Auswahl_Schluessel_05_s

Please select: 1 Display status of all keys

2 Disable one of the keys No. 1 - 5

3 Disable one of the keys No. 6 - 10

4 Enable one of the keys No. 1 - 5

5 Enable one of the keys No. 6 - 10

6 End service function

Status_Schluessel_01_s

Please wait.

Vehicle identification number: WBAAL91020FS00287

Key

1: Disabled and already used

- 2: Enabled and already used
- 3: Disabled and already used
- 4: Enabled and already used
- 5: Enabled and already used
- 6: Enabled and already used
- 7: AKTIV
- 8: Enabled and NOT used
- 9: Enabled and NOT used
- 10: Enabled and NOT used

Auswahl_Schluessel_05_s

Please select:1 Display status of all keys

- 2 Disable one of the keys No. 1 - 5
- 3 Disable one of the keys No. 6 - 10
- 4 Enable one of the keys No. 1 5
- 5 Enable one of the keys No. 6 - 10
- 6 End service function

2

Sperren_Schluessel_01_s

Please wait.

Schluessel_sperren_01_s

What key do you wish to disable?

Please select:1 Key 1

- 2 Key 2
- 3 Key 3
- 4 Key 4
- 5 Key 5

2

Schluessel_sperren_03_s

Status_Schluessel_01_s

Please wait.

Vehicle identification number: WBAAL91020FS00287

Key

- 1: Disabled and already used
- 2: Disabled and already used
- 3: Disabled and already used
- 4: Enabled and already used
- 5: Enabled and already used
- 6: Enabled and already used
- 7: AKTIV
- 8: Enabled and NOT used
- 9: Enabled and NOT used
- 10: Enabled and NOT used

Auswahl_Schluessel_05_s

Please select:1 Display status of all keys

- 2 Disable one of the keys No. 1 - 5
- 3 Disable one of the keys No. 6 - 10
- 4 Enable one of the keys No. 1 5
- 5 Enable one of the keys No. 6 - 10
- 6 End service function

2

Sperren_Schluesssel_01_s

Please wait.

Schluesssel_sperren_01_s

What key do you wish to disable?

Please select:1 Key 1

2 Key 2

3 Key 3

4 Key 4

5 Key 5

Schluesssel_sperren_03_s

Status_Schluesssel_01_s

4

Please wait.

Vehicle identification number: WBAAL91020FS00287

Key

1: Disabled and already used

2: Disabled and already used

3: Disabled and already used

4: Disabled and already used

5: Enabled and already used

6: Enabled and already used

7: AKTIV

8: Enabled and NOT used

9: Enabled and NOT used

10: Enabled and NOT used

Auswahl_Schluesssel_05_s

Please select:1 Display status of all keys

2 Disable one of the keys No. 1 - 5

3 Disable one of the keys No. 6 - 10

4 Enable one of the keys No. 1 5

5 Enable one of the keys No. 6 - 10

6 End service function

Sperren_Schluesssel_01_s

2

Please wait.

Schluesssel_sperren_01_s

What key do you wish to disable?

Please select:1 Key 1

2 Key 2

3 Key 3

4 Key 4

5 Key 5

Schluesssel_sperren_03_s

Status_Schluesssel_01_s

5

Please wait.

Vehicle identification number: WBAAL91020FS00287

Key

- 1: Disabled and already used
- 2: Disabled and already used
- 3: Disabled and already used
- 4: Disabled and already used
- 5: Disabled and already used
- 6: Enabled and already used
- 7: AKTIV
- 8: Enabled and NOT used
- 9: Enabled and NOT used
- 10: Enabled and NOT used

Auswahl_Schluessel_05_s

Please select:1 Display status of all keys

- 2 Disable one of the keys No. 1 - 5
- 3 Disable one of the keys No. 6 - 10
- 4 Enable one of the keys No. 1 5
- 5 Enable one of the keys No. 6 - 10
- 6 End service function

3

Sperren_Schluessel_01_s

Please wait.

Schluessel_sperren_01_s

What key do you wish to disable?

Please select:6 Key 6

- 7 Key 7
- 8 Key 8
- 9 Key 9
- 10 Key 10

1

Schluessel_sperren_03_s

Status_Schluessel_01_s

Please wait.

Vehicle identification number: WBAAL91020FS00287

Key

- 1: Disabled and already used
- 2: Disabled and already used
- 3: Disabled and already used
- 4: Disabled and already used
- 5: Disabled and already used
- 6: Disabled and already used
- 7: AKTIV
- 8: Enabled and NOT used
- 9: Enabled and NOT used
- 10: Enabled and NOT used

Auswahl_Schluessel_05_s

Please select:1 Display status of all keys

2 Disable one of the keys No. 1 - 5
 3 Disable one of the keys No. 6 - 10
 4 Enable one of the keys No. 1 5
 5 Enable one of the keys No. 6 - 10
 6 End service function

6

PostActions

End service function.

Procedure

20:57:46 - 20:58:14

B1361_D4ABFGRKLI - MFL and air conditioning system

Performed

Output

Result

Start

Meldung_01_s

Values are being read from control unit.

PLEASE WAIT!

Stored values:

MFL matching: Installed

Air conditioning system matching: Installed

Meldung_02_s

Air conditioning system and multifunction steering wheel matching:

Selection: 1 Reset matching values

2

2 End matching

Please adjust the following statuses on the vehicle:

- Switch off terminal 15 and terminal R.

Matching completed.

PostActions

Test plan (end of diagnosis)

Identifier	Title, Documents, Symptoms,	Status
	<u>Interior lights, front</u>	
ABL-DIT-B6330_00002	B6330_00002 - Interior lights GM: Interior lights, short circuit	Not called
	<u>Seat occupancy detection</u>	
ABL-DIT-B6510_30002	B6510_30002 - Front passenger seat occupancy detection: MRS: Seat occupancy recognition 1 (SBE1)	Not called
	<u>Supply, K bus, Hifi, Top Hifi</u>	
ABL-DIT-B9999_99999	B9999_99999 - Standard test module, notes	Not called
ABL-DIT-B6512_00011	B6512_00011 - Radio supply No communication possible with: Radio	Not called

Temperature control

ABL-DIT-F6450_00009

F6450_00009 - Temperature control

Performed

ABL-DIT-F6450_00004

F6450_00004 - Temperature control

Not called

IHKA: Auxiliary water pump

Vehicle test (end of diagnosis)

20:58:59 - 20:59:47

<u>Status</u>	<u>System</u>	<u>ECU variant</u>
responding	GM - base module 5	zke5
responding	DDE - Diesel Electronics	dde40kw0
responding	EWS - Electronic immobilizer 3	ews3
responding	MFL - Multifunction steering wheel	mfl2
responding	ASC - stability control MK20	ascmk20
responding	IHKA - Automatic heating/air conditioning	ihka46_2
responding	PDC - Park Distance Control	pdact
Communication error	RAD - Radio	
responding	KOMBI - Instrument cluster	kombi46
responding	MRS - Multiple Restraint System	mrs3
responding	LSZ - Light switching centre	lsz
responding	AIC - Automatic Interval Control	aic
responding	SZM - Centre console control panel	szm46

Fault memory list

<u>Code</u>	<u>Description</u>
3B	GM: Interior lights, short circuit
17	IHKA: Auxiliary water pump
22	LSZ: Front load sensor, short circuit to negative
1A	MRS: Seat occupancy recognition 1 (SBE1)
S 0001	No communication possible with: Radio

Documents

<u>Identifier</u>	<u>Title</u>
SSP-SSP-SP0000011808	Fuel injection, cylinders 1-6
FUB-FUB-FIN0898FB571361026	Smooth-running control
SSP-SSP-SP0000011814	Hot-film air mass meter
FUB-FUB-FIN0898FB571361017	Mass air flow sensor
SSP-SSP-SP0000011814	Hot-film air mass meter
FUB-FPA-FIN0900FP571361001	Function test instructions, mass air flow sensor
SSP-SSP-SP0000011814	Hot-film air mass meter
FUB-FPA-FIN0900FP571361001	Function test instructions, mass air flow sensor
SSP-SSP-SP0000011814	Hot-film air mass meter
FUB-FPA-FIN0900FP571361001	Function test instructions, mass air flow sensor
SSP-SSP-SP0000011814	Hot-film air mass meter
FUB-FPA-FIN0900FP571361001	Function test instructions, mass air flow sensor
SSP-SSP-SP0000011814	Hot-film air mass meter

FUB-FPA-FIN0900FP571361001	Function test instructions, mass air flow sensor
SSP-SSP-SP0000011814	Hot-film air mass meter
FUB-FPA-FIN0900FP571361001	Function test instructions, mass air flow sensor
SSP-SSP-SP0000011818	Exhaust gas recirculation valve
FUB-FUB-FIN0898FB571361002	Exhaust gas recirculation
FUB-FUB-WAB0398FB-001645012	Temperature control
FUB-HIL-SCM0997HI466135002	EWS key status
FUB-FUB-SCM0897FB466135001	Electronic car immobilisation system
FUB-HIL-SCM0997HI466135001	Disable and enable key
FUB-FUB-SCM0897FB466135001	Electronic car immobilisation system
FUB-FUB-FIN0898FB571361042	Adjustment, multifunction steering wheel & air conditioning

Comment: