

**Maybach V10.02 Diagnostics List (Note:For reference only)**

Vehicle Information			System													
YEARS	MODEL	CHASSIS	ENG TYPE	ENGINE	TRANS	ABS/ESP	Airmatic	TPM/TPC	AB	ICM	XENON LIGHTS	SEAT MODULES	DOOR MODULES	AAC	PTS	ASSYST
Up to 08/2006	Maybach	WDBV/240	MESFI2.7.1	CDTS5	CDT	CDTS26	CDS30	CDT	CD	CDTS31		CDTS	CDTS	CDTS33	CDTS	
			ME2.7.2	CDTS6												
As of 09/2006	Maybach	WDBV/240	MESFI2.7.1	CDTS5	CDT	CDTS26	CDS30	CDT	CD	CDTS31		CDTS	CDTS	CDTS33	CDTS	
			ME2.7.2	CDTS6												

## Mercedes Benz V10.02 Diagnostics List (Note: For reference only)

Notes (说明)			
	<b>Abbreviations for function (功能缩写)</b>	<b>Full name for function</b>	<b>功能全称</b>
	C	DTC	读取和清除故障码
	D	Data Display	读数据流
	T	Actuation Test	动作测试
	S	Indicates special function present, but detail items are not listed	表示有特殊功能, 没有列出具体的项数
	SX(X represents a number) (X表示数字)	Indicates special function present, and detail items are listed	表示有特殊功能, 且列出了具体的项数
	<b>Abbreviations for system (系统缩写)</b>	<b>Full name for system</b>	<b>系统全称</b>
	PTS	Parktronic system	泊车辅助系统
	ESM	Electronic selector module	电子选档模块
	AAC	Automatic air conditioning	自动空调
	OCP	Overhead control panel	头部控制面板
	FSCU_EC	Control unit 'Fuel pump'	控制单元 “燃油泵”
	CGW	Central gateway	中央网关
	AMKS_LF	Active multicontour seat-left front	左前动态行驶座椅
	AMKS_RF	Active multicontour seat-left front	右前动态行驶座椅
	HKS	Tailgate control	尾门控制
	KDS	Trunk lid control	行李箱盖控制
	EFB	Electric parking brake	电子驻车制动
	TPM	Tire pressure monitor	胎压监测器
	ARS	Automatic gearshift system	自动变速器系统
	SGR	Radar sensor control unit	雷达传感器控制单元
	DCU_LF	Left front door	左前车门
	ESA_DR	Electric seat adjustment driver	驾驶员电动座椅调整

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### Notes to the abbreviated function

- C** DTC
- D** Data Display
- T** Actuation Test
- S** Indicates special function present, but detail items are not listed
- S(X)** Indicates special function present, and detail items are listed

### ENGINE

#### ENGINE

- MESFI**
- S2** Learning of the throttle valve stop
  - S2** Resetting of sensor adaptation
  - S2** Ignition
  - S2** Fuel quantity
  - S2** Idle speed selector lever P/N and manual transmission in Neutral
  - S2** Idle speed selector lever Driver position

- MESFI2.7**
- S4** Default initialization
  - S4** Ignition
  - S4** Fuel quantity
  - S4** Idling specified speed with selector lever in position P or N
  - S4** Idling specified speed with gear engaged
  - S4** CO setting for vehicles without TWC

- ME2.7.2**
- S6** Activate fuel pump
  - S6** Resetting of mixture adaptation
  - S6** Idling specified speed with gear engaged
  - S6** CO setting for vehicles without TWC

- ME9.7**
- S8** Learning of the throttle valve stop
  - S8** Resetting of adaptation data
  - S8** ignition
  - S8** Fuel quantity
  - S8** Idling specified speed with selector lever in position P or N
  - S8** Idling specified speed with gear engaged

- ME9.7(AMG)**
- S10** Learning of the throttle valve stop

### ECM

- S1** Ignition
  - S1** Fuel quantity
  - S1** Idle speed selector lever P/N and manual transmission in Neutral
  - S1** Idle speed selector lever Driver position
  - S1** CO setting for models without TWC
  - S1** Boot strapping
- ME2(DAS)**
- S3** Teach in of drive authorization system
  - S3** Default initialization
  - S3** Ignition
  - S3** Fuel quantity
  - S3** Idling specified speed with selector lever in position P or N
  - S3** Idling specified speed with gear engaged

- MESFI2.7.1**
- S5** Default initialization
  - S5** Ignition
  - S5** Fuel quantity
  - S5** Idling specified speed with selector lever in position P or N
  - S5** Idling specified speed with gear engaged
  - S5** CO setting for vehicles without TWC

- MESFI2.8**
- S7** Teach in of drive authorization system
  - S7** Resetting of mixture adaptation
  - S7** Ignition
  - S7** Fuel quantity
  - S7** Idling specified speed with selector lever in position P or N
  - S7** Idling specified speed with gear engaged

- MED 9.7**
- S9** Learning of the throttle valve stop
  - S9** Resetting of adaptation data
  - S9** Fuel quantity
  - S9** Idling specified speed with selector lever in position P or N
  - S9** Idling specified speed with gear engaged

- ME2(HHT)**
- S11** Ignition

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<b>S10</b>	Resetting of adaptation data	<b>S11</b>	Fuel quantity
<b>S10</b>	ignition	<b>S11</b>	Idling speed Selector lever P/N
<b>S10</b>	Fuel quantity	<b>S11</b>	Idling speed Selector lever Drive position
<b>S10</b>	Idling specified speed with selector lever in position P or N	<b>S11</b>	CO setting for models without TWC
<b>S10</b>	Idling specified speed with gear engaged	<b>S11</b>	Self-adaptation
	<b>ME1RE</b>		<b>ME1LI</b>
<b>S12</b>	Ignition	<b>S13</b>	Ignition
<b>S12</b>	Fuel quantity	<b>S13</b>	Fuel quantity
<b>S12</b>	Idling speed Selector lever P/N	<b>S13</b>	CO setting for models without CAT
<b>S12</b>	Idling speed Selector lever Drive position	<b>S13</b>	Self-adaptation
<b>S12</b>	CO setting for models without CAT		
<b>S12</b>	Self-adaptation		<b>MESFI(204)</b>
	<b>MESFI(169)</b>	<b>S35</b>	Activate fuel pump
<b>S34</b>	Activate fuel pump	<b>S35</b>	Learning of the throttle valve stop
<b>S34</b>	Learning of the throttle valve stop	<b>S35</b>	Learning of the recirculated air flap stop
<b>S34</b>	Resetting of mixture adaptation	<b>S35</b>	Resetting of sensor adaptation
<b>S34</b>	Ignition	<b>S35</b>	Sensor rotor adaptation
<b>S34</b>	Fuel quantity	<b>S35</b>	Ignition
<b>S34</b>	Idle speed set value	<b>S35</b>	Fuel quantity
<b>S34</b>	Electric suction fan for engine or air conditioning	<b>S35</b>	Idling specified speed with selector lever in position P or N
		<b>S35</b>	Idling specified speed with gear engaged
	<b>CDI2</b>		<b>CDI3</b>
<b>S14</b>	Drive authorization	<b>S15</b>	Read coding and change if necessary
<b>S14</b>	Read coding and change if necessary.	<b>S15</b>	Display of coding data
<b>S14</b>	Injector classification / Injector shutoff	<b>S15</b>	Adjustment of injector injection quantities
		<b>S15</b>	Reset quantity mean value adaptation data
		<b>S15</b>	Teaching in the diesel particulate filter after replacing the engine control unit
	<b>CDI4</b>		<b>CDI5</b>
<b>S16</b>	Read coding and change if necessary	<b>S17</b>	Reset quantity mean value adaptation data
<b>S16</b>	Display of coding data	<b>S17</b>	Adjustment of injector injection quantities
<b>S16</b>	Reset quantity mean value adaptation data	<b>S17</b>	Resetting air filter learned values after air filter replacement
<b>S16</b>	Learning of the throttle valve stop		
<b>S16</b>	Resetting air filter learned values after air filter replacement		
	<b>CDI6</b>		<b>CDI A1</b>
<b>S18</b>	Adjustment of injector injection quantities	<b>S19</b>	Adjustment of injector injection quantities
<b>S18</b>	Reset quantity mean value adaptation data	<b>S19</b>	Reset quantity mean value adaptation data
<b>S18</b>	Learning of the throttle valve stop	<b>S19</b>	Regeneration of diesel particulate filter when driving
<b>S18</b>	Activate fuel pump		

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<b>CDID</b>		<b>ERE</b>	
<b>S20</b>	Adjustment of injector injection quantities	<b>S21</b>	Variant coding
<b>S20</b>	Regeneration of diesel particulate filter when driving		
<b>S20</b>	Replace component Diesel particulate filter		
<b>S20</b>	Learning of the throttle valve stop		
<b>S20</b>	Resetting the lambda values		
	<b>MED97</b>		<b>ME97 AMG-M156</b>
<b>S39</b>	Teach in of throttle valve stop	<b>S40</b>	Activation of fuel pump
<b>S39</b>	Activation of fuel pump	<b>S40</b>	Reset of cold start adaptation values
<b>S39</b>	Resetting of adaptation values	<b>S40</b>	Teach-in of positions for camshafts
<b>S39</b>	Teach-in process after replacement of the combustion engine		
	<b>SIM271KECNG</b>		<b>MED177 AMG</b>
<b>S41</b>	Correction programming of ignition	<b>S42</b>	Display of SCN
<b>S41</b>	Correction programming of fuel quantity	<b>S42</b>	Display of CVN
<b>S41</b>	Correction programming of electric fan for combustion engine or air conditioning	<b>S42</b>	Display of model
<b>S41</b>	Correction programming of specified idle speed in selector lever position ‘P’ or ‘N’	<b>S42</b>	Correction programming of specified idle speed with gear range engaged
<b>S41</b>	Correction programming of specified idle speed with gear range engaged	<b>S42</b>	Injector injection quantity adjustment
<b>S41</b>	Default initialization	<b>S42</b>	Activation of fuel pump
<b>S41</b>	Activate fuel pump	<b>S42</b>	Teach-in of throttle valve stop
<b>S41</b>	Teach in of throttle valve stop		<b>CDI60LS</b>
<b>S41</b>	Teach-in of stop for boost pressure control flap	<b>S44</b>	Adjustment of injector injection quantities.
<b>S41</b>	Acceleration of sensor rotor adaptation	<b>S44</b>	Regeneration of diesel particulate filter when driving
<b>S41</b>	Resetting of values for sensor rotor adaptation	<b>S44</b>	Teaching in the diesel particulate filter after replacing the engine control unit.
<b>S41</b>	Reset of mixture adaptation values	<b>S44</b>	Teach-in process after replacement of component Diesel particulate filter
<b>S41</b>	Perform teach-in process for control unit ‘ME’	<b>S44</b>	Teach-in process after replacement of component SCR-Catalytic converter
<b>S41</b>	Y107/1 (Gas cylinder shutoff valves)	<b>S44</b>	Learning of the throttle valve stop.
<b>S41</b>	Enable natural gas operation	<b>S44</b>	Teach-in process after replacement of component Diesel oxidation catalytic converter
	<b>MED177</b>	<b>S44</b>	Teach-in process after replacement of component B16/15 (Temperature sensor upstream of SCR catalytic converter)
<b>S43</b>	Correction programming of ignition	<b>S44</b>	Teach-in process after replacement of component B28/8 (Pressure differential sensor (DPF))
<b>S43</b>	Correction programming of fuel quantity	<b>S44</b>	Teach-in process after replacement of component G3/2 (O2 sensor upstream of KAT)
<b>S43</b>	Correction programming of specified idle speed in selector lever position ‘P’ or ‘N’	<b>S44</b>	Teach-in process after replacement of component N37/7b1 (NOx sensor downstream of diesel particulate filter)
<b>S43</b>	Correction programming of specified idle speed with gear range engaged	<b>S44</b>	Teach-in process after replacement of component N37/8b1 (NOx sensor downstream of SCR catalytic converter)
<b>S43</b>	Injector injection quantity adjustment	<b>S44</b>	Teach-in process after replacement of component Y74 (Pressure control valve)
<b>S43</b>	Activation of fuel pump	<b>S44</b>	Teach-in process after replacement of component Y129 (AdBlue? Metering valve)
<b>S43</b>	Teach in of throttle valve stop	<b>S44</b>	Activate fuel pump
<b>S43</b>	Resetting of adaptation values	<b>S44</b>	Reset quantity mean value adaptation data.
		<b>S44</b>	Rapid teach-in of zero quantity calibration values
		<b>S44</b>	Reset values for HFM drift compensation.

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<p><b>S45</b> Variant coding</p> <p><b>S45</b> Adjustment of injector injection quantities.</p> <p><b>S45</b> Regeneration of diesel particulate filter when driving</p> <p><b>S45</b> Teaching in the diesel particulate filter after replacing the engine control unit. Teaching-in of diesel particulate filter after replacement of engine control unit without transfer of values</p> <p><b>S45</b> Learning of the throttle valve stop. Teach-in of SCR exhaust aftertreatment system after replacement of engine control unit without transfer of values</p> <p><b>S45</b> Teach-in process after replacement of component Diesel particulate filter Teach-in process after replacement of component Diesel oxidation catalytic converter</p> <p><b>S45</b> Teach-in process after replacement of component SCR-Catalytic converter Teach-in process after replacement of component B16/15 (Temperature sensor upstream of SCR catalytic converter)</p> <p><b>S45</b> Teach-in process after replacement of component B28/8 (Pressure differential sensor (DPF)) Teach-in process after replacement of component G3/2 (O2 sensor upstream of KAT)</p> <p><b>S45</b> Teach-in process after replacement of component NOx sensor upstream of SCR catalytic converter</p> <p><b>S45</b> Teach-in process after replacement of component NOx sensor downstream of SCR catalytic converter</p> <p><b>S45</b> Teach-in process after replacement of component Y27/9 (Exhaust gas recirculation positioner)</p> <p><b>S45</b> Teach-in process after replacement of component Y74 (Pressure control valve valve)</p> <p><b>S45</b> Activate fuel pump</p> <p><b>S45</b> Reset quantity mean value adaptation data.</p> <p><b>S45</b> Rapid teach-in of zero quantity calibration values</p> <p><b>S45</b> Reset values for HFM drift compensation.</p> <p><b>S45</b> Reset AdBlue quality factor</p> <p><b>S45</b> Resetting air filter learned values after air filter replacement.</p> <p><b>S45</b> Drive authorization</p>	<p><b>S44</b> Resetting air filter learned values after air filter replacement.</p>	<p><b>CDI6EU5</b></p> <p><b>S46</b> Variant coding</p> <p><b>S46</b> Adjustment of injector injection quantities.</p> <p><b>S46</b> Regeneration of diesel particulate filter when driving</p> <p><b>S46</b> Teaching in the diesel particulate filter after replacing the engine control unit.</p> <p><b>S46</b> Learning of the throttle valve stop.</p> <p><b>S46</b> Teach-in process after replacement of component Diesel particulate filter</p> <p><b>S46</b> Teach-in process after replacement of component B28/8 (Pressure differential sensor (DPF)) Teach-in process after replacement of component G3/2 (O2 sensor upstream of KAT)</p> <p><b>S46</b> Teach-in process after replacement of component Y27/9 (Left EGR positioner)</p> <p><b>S46</b> Teach-in process after replacement of component Y74 (Pressure control valve)</p> <p><b>S46</b> Activate fuel pump</p> <p><b>S46</b> Reset quantity mean value adaptation data.</p> <p><b>S46</b> Rapid teach-in of zero quantity calibration values</p> <p><b>S46</b> Reset values for HFM drift compensation.</p> <p><b>S46</b> Resetting air filter learned values after air filter replacement.</p>
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## Maybach V10.02 Diagnostics List(Note:For reference only)

### Transmission(CAN)

- S22** Definition
- S22** Assignment of hydraulic shift elements
- S22** Important information on adaptation limit values
- S22** Important information on the combination possibilities for adaptation end stop values

### ABS/ESP/ABR(CAN)

- S25** Road test
- S25** Tire pressure loss warner(Activating)

### Airmatic(CAN)

- S29** Level calibration
- S30** Initial startup with manual settings input for new control unit/Level calibration
- S30** Pneumatic test of component A9/1 (AIRmatic compressor unit)

### ICM(CAN)

- S31** Distance unit
- S31** Temperature unit
- S31** Language
- S31** Time format
- S31** ASSYST settings

### ICM(212,218,207,204,197,172)

- S2** Confirmation of general maintenance
- S2** Reset general maintenance

### AAC(212,218,207,204,197,172)

- S47** Manual settings
- S47** Workshop coding
- S47** Normalization of actuator motors
- S47** Teach-in of actuator motors
- S47** Breathing-in of refrigerant compressor

### Transmission

- S23** Resetting of adaptation data
- S24** Control module data
- S24** Reset teach-in byte for the air conditioning or automatic heater

### ABS/ESP/ABR

- S26** Initial startup
- S26** Road test
- S27** Learning process
- S28** Bleeding brake system

### Suspension/ABC

- S36** 1 level calibration
- S36** 1 pneumatic inspection

### ICM

- S32** Oil change

### AAC(CAN)

- S33** Read coding and change if necessary
- S33** Teach-in of actuator motors after actuator motor replacement

### TPM(CAN)

- S37** Initial startup(Write wheel electronics identification number.)
- S38** Monitoring function

### CDID2(212,207,W204,S204,X204)

- S48** Teach-in processe

### CDID3(218,X204,212,207,W204,S204,221)

- S49** Teach-in processe

## Maybach V10.02 Diagnostics List (Note: For reference only)

### CDI60LS(212,218,204)

S50 Teach-in processe

### TPM(212\207\197\218\172)

S52 Write identification numbers of tire pressure sensors

S52 Write tire pressure specified values

### DOOR(212/218/207/197/GLK204/172)

S54 Teach-in processes

### SIM271DE20(212/207/172/C204)

S56 Configuration

S56 Teach-in processes

### CDID3

S58 Teach-in of throttle valve stop

S58 Teach-in of intake port shutoff

S58 Teach-in diesel particulate filter after replacement of control unit 'N3/9(C

S58 Reset of lambda values

S58 Reset of contamination level of air filter

S58 Teach in component 'Y77/1(Boost pressure positioner)'

S58 Quick teach-in of values of zero quantity calibration

S58 Teach-in process after replacement of component 'Diesel particulate filter'

S58 Oxidation catalytic converter

S58 Activation of fuel pump

S58 Bleeding of high-pressure fuel circuit

S58 B79/2(Transmission neutral position sensor)

S58 Resetting of learned values of component 'B6/1(Camshaft Hall sensor)'

### ESP

S60 Calibration of component 'A7/3(Traction system hydraulic unit)'

S60 Calibration of component 'B24/15(Yaw rate sensor for lateral and longitudinal acceleration )'

### TPM

S62 Write identification numbers of tire pressure sensors

### IC(231/246/GL166/166ML/176)

S64 Current menu settings

### ESP(212\207\218\X204\197\172)

S51 Reset offset value of signal 'Steering angle'

S51 Actuvate function 'Tire pressure loss warning'

S51 Calibrate separation and intake valves in component 'A7/3 (Traction system hydraulic unit)'

S51 Teach in component 'B37/1 (Pedal angle sensor)'

S51 Development data

### AIRMATIC(212\218\207\X204\172\197)

S53 Level calibration

S53 Reset of compressor operating time

### MED40(C204)

S55 Configuration

S55 Teach-in processes

### AB

S57 Reading coding and change if necessary

Display coded vehicle data

### Airmatic(CAN)

S59 Resetting of calibration values

S59 Level calibration

S59 Vehicle load condition comparison

S59 Calibration of component 'B24/12(ABC lateral acceleration sensor)'

### ESP

S61 Calibration of component 'Acceleration sensor

### Transmission

S63 Display of adaptation values (Shift)

S63 Resetting the adaptation values



## Maybach V10.02 Diagnostics List(Note:For reference only)

Transfer of manufacturer default settings

Oil grade factor

Customer-specific settings

### MED40AMG(176)

- S65** SCN
- S65** Manual setting
- S65** Activation of fuel pump
- S65** Teach-in of throttle valve stop
- S65** Teach-in positions for camshafts
- S65** Resetting of adaptation values
- S65** Status of teach-in process

### ESA-FR/ESA-FL(215)

- S66** Variant coding
- S66** Parameterize easy entry/exit. (Driver side)
- S66** Normalize seat adjustment
- S66** Adapt obstruction protection
- S66** Readjust adjustment parameters

### ESA-FR/ESA-FL(220)

- S67** Read coding and transfer to the new control unit
- S67** Variant coding
- S67** Parameterize easy entry/exit. (Driver side)
- S67** Normalize seat adjustment
- S67** Readjust adjustment parameters
- S67** Reduce the longitudinal travel with the retaining clip installed on the fore/aft adjustment rail.

### ESA-FR/ESA-FL(230)

- S68** Read coding and change if necessary
- S68** Normalize seat adjustment
- S68** Adapt obstruction protection
- S68** Parameterize easy entry/exit. (Driver side)

### ESP

- S69** Calibration of component 'B24/15(Yaw rate sensor for lateral and longitudinal acceleration )'

### ESP(X204)

- S70** Reset offset value of signal 'Steering angle'
- S70** Actuvate function 'Tire pressure loss warning'
- S70** Calibrate separation and intake valves in component 'A7/3 (Traction system hydraulic unit)'
- S70** Teach in component 'B37/1 (Pedal angle sensor)'

### PTS(117)

- S71** Volume and frequency
- S71** Trailer hitch