

Super MB STAR Work with W221 (DEMO)

Vehicle: 221.122 Control unit: ---

Main groups

Quick test

Help on functions 'Quick test with functions view' and 'Improved repair verification'

Control units

Entry of order data (repair order number, dealer number, name)

Entry for retrofits and modifications

Notes:

- Quick test with functions view :
The quick test with function overview offers a simplified process to the start diagnostic activities by showing a functional representation of the vehicle's complete fault symptoms.

- Improved repair verification :
To allow better checking of repairs, the fault memory views include the additional fault status 'NOT CHECKED'. In the quick test views, symbol '(✓)' is used for this purpose.

For additional information, please select menu item "Help on functions 'Quick test with functions view' and 'Improved repair verification'".

ESC F1 F3 F6 F11

Vehicle: 221.122 Control unit: ---

Current quick test:

Filter status: All control units

ECU	MB number	Result:
CGW - Central gateway	2215405445	- ✓ -
EZS - Electronic ignition switch	5450508	- ✓ -
ISM - Intelligent servo module	2700352	- ✓ -
ABR - Adaptive Brake	5455232	- ✓ -

Communication in progress.
Common Rail Diesel Injection

ESC F6

Vehicle: 221.122 Control unit: ---

Current quick test:

Filter status: All control units

ECU	MB number	Result:
CGW - Central gateway	2215405445	- ✓ -
EZS - Electronic ignition switch	5450508	- ✓ -
ISM - Intelligent servo module	2700352	- ✓ -
ABR - Adaptive Brake	5455232	- ✓ -
CDI 5 - Common Rail Diesel Injection	4480640	- F - [i]
AiRmatic	5456532	- ✓ -
Electronic parking brake - Electric p...	4300649	- ✓ -
TPC - Tire pressure monitor	8206526	- F -
ETC - Electronic transmission contro	5457332	- ✓ -
AB - Airbag	8707526	- ✓ -
UCP - Upper control panel	2218702958	- ✓ -
BNS - Vehicle power supply control module	2215458232	- ✓ -
Dr-side SAM - Driver signal acquisition and actuation module	2215451632	- f -

Communication in progress.
Driver signal acquisition and ac...

ESC F5

Vehicle: 221.122 Control unit: ---

Current quick test:

Filter status: All control units

ECU	MB number	Result:
ESA-FL - Electric seat adjustment front left	2218708586	- ✓ -
IC - Instrument cluster	405211	- ✓ -
RevETR-LF - Left front reversible en	270345	(- ✓ -)
ASSYST Active Service System	405445	- ✓ -
RFK - Backup camera	270645	- ✓ -
PTS - Parktronic	451032	- F -
RevETR-RF - Right front reversible e	270245	(- ✓ -)
retractor		
AAC - Automatic air conditioning	709987	- F -
ESA-FR - Electric seat adjustment fr	708686	- ✓ -
ASSYST PLUS	2215405445	- ✓ -
ESA-R - Electric seat adjustment rear	2218708386	(- ✓ -)
COMAND	2218201426	- ✓ -
System diagnosis	2215405445	- ✓ -

Communication in progress.
System diagnosis

ESC F5

Vehicle: 221.122 Control unit: ---

Current quick test:

Filter status: All control units

ECU	MB number	Result:
RFK - Backup camera	2218270645	- ✓ -
COMAND	2218201426	- ✓ -
Tuner - Standard tuner	205289	- ✓ -
CTEL - Mobile phone adapter with u	703126	- ✓ -
ZAN - Central display	207089	- ✓ -
DCM-FL - Door control module front	702187	- F -
DCM-FR - Door control module front	011200	- ✓ -
DCM-RL - Door control module rear	702287	- ✓ -
DCM-RR - Door control module rear	702287	- ✓ -
ESA-FL - Electric seat adjustment fr	708586	- ✓ -
ESA-FR - Electric seat adjustment front right	2218708686	- ✓ -
ESA-R - Electric seat adjustment rear	2218708386	(- ✓ -)
AAC - Automatic air conditioning	2218709987	- F -
Battery voltage	12.36 V	

Please wait...

Abort process.

ESC F5

Vehicle: 221.122 Control unit: ---

Current quick test: Functions view

Function main groups, Symptoms	Status
Body	
Emergency tensioning retractor	(- ✓ -)
Cooling	- F -
Seat heater	(- ✓ -)
Sliding/tilting roof System	(- ✓ -)
Mirror heater	- F -
Chassis / Chassis	- ✓ -
Complete vehicle	
Instrument lighting	- f -
Communication / Information	
Parktronic system	- F -
Power generation	
Power generation	- F - [i]
Power transmission	
	- ✓ -
Fault codes without assignable function	- F -

ESC F1 F3 F5 F6 F9 F10 F11

Vehicle: 221.122 Control unit: CDI5

Fault memory

Code	Text	Status
2698-002	Check component B60/1 (Left exhaust back pressure sensor). Control variation - The exhaust back pressure is too low.	Current and stored
2592-001	Check component Charge pressure positioner. Positioner signals fault.	Current and stored

Vehicle: 221.122 Control unit: CDI5

Y77/1 (Charge pressure positioner)

Engine speed	1382 1/min
Boost pressure	993 hPa

F3: The on/off ratio is set to 10% after which the boost pressure drops.
 F4: The on/off ratio is set to 90% after which the boost pressure rises.
 F12: Abort

Vehicle: 221.122 Control unit: CDI5

Voltage supply of component B60 (Exhaust back pressure sensor)

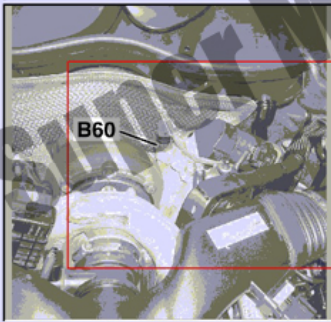
Figure legend:
 - B60 (Exhaust back pressure sensor)

Test prerequisite:
 - The actual value is not o.k.

Test prerequisite:
 - Switch off ignition.
 - Detach coupling at component B60 (Exhaust back pressure sensor).
 - (B60x1) 2 → (←) → 1 (B60x1)
 - Switch on ignition.

Specified value:
 - Voltage [4.9...5.2] V

Question:
 - Is the measurement value OK?



Vehicle: 221.122 Control unit: CDI5

Test engine at idle speed.

No.	Name	Specified value	Actual values	Unit
4540	Engine speed	[730...790]	759	1/min
4546	Coolant temperature	[20.0...60.0]	62.9	°C
4607	Fuel temperature	>= 20	36	°C
4600	Pedal value sensor	0.0	0.0	%
4544	Rail pressure	>= 120	253	bar
982	On/off ratio of component Y74 (Pressure control valve)	[16.0...20.0]	18.5	%
014	On/off ratio of component Y94 (Quantity control valve)	[24.0...30.0]	27.2	%
4612	Current injected quantity	[7.0...14.0]	7.3	mm³/H-ub

Vehicle: 221.122 Control unit: Dr-side SAM

Fault codes

Checked fault codes

Unchecked fault codes

Code	Text	No.	Status
90D0	Component Switch illumination or line to component has short circuit or open circuit.	0	STORED

Vehicle: 221.122 Control unit: DCM-FL

Mirror heater

Note:
 The ignition must be switched on.

F3: SWITCH ON	ACTIVE
F4: SWITCH OFF	

This DEMO is Super MB STAR V2.0 work with W221, Pictures provided by our user.

Super MB STAR INC.