

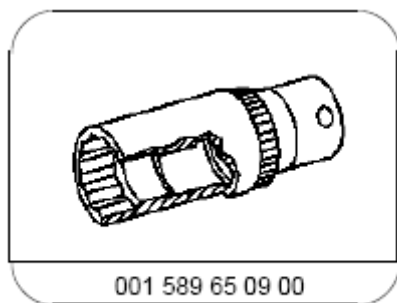
2010 Mercedes-Benz CL550

ENGINE Complete Engine - CL550 - 216 Chassis

		losses at pistons and piston rings	P-1003-02Z
9	Check other cylinders in firing order of the engine	See "Firing order of the engine": Engine 272, 273	AR01.00-P-1300-03HA
		Engine 157, 276, 278	AR01.00-P-1300-03MM
10	Install in the reverse order		

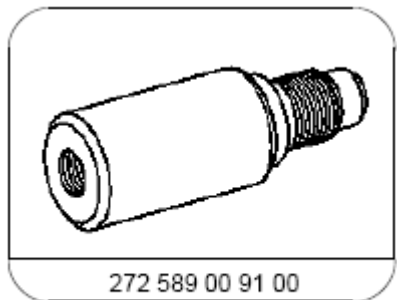
CYLINDER LEAKAGE

Number	Designation		All engines
BE01.00-P-1001-02Z	Cylinder leakage: permissible loss total indication	%	< or =25
BE01.00-P-1002-02Z	Cylinder leak-tightness: permissible losses at valves and cylinder head gasket	%	< or =10
BE01.00-P-1003-02Z	Cylinder leak-tightness: permissible losses at pistons and piston rings	%	< or =20



Wrench socket

Fig. 42: Identifying Wrench Socket (001 589 65 09 00)
Courtesy of MERCEDES-BENZ USA



Threaded adapter

Fig. 43: Identifying Threaded Adapter (272 589 00 91 00)
Courtesy of MERCEDES-BENZ USA

2010 Mercedes-Benz CL550

ENGINE Complete Engine - CL550 - 216 Chassis

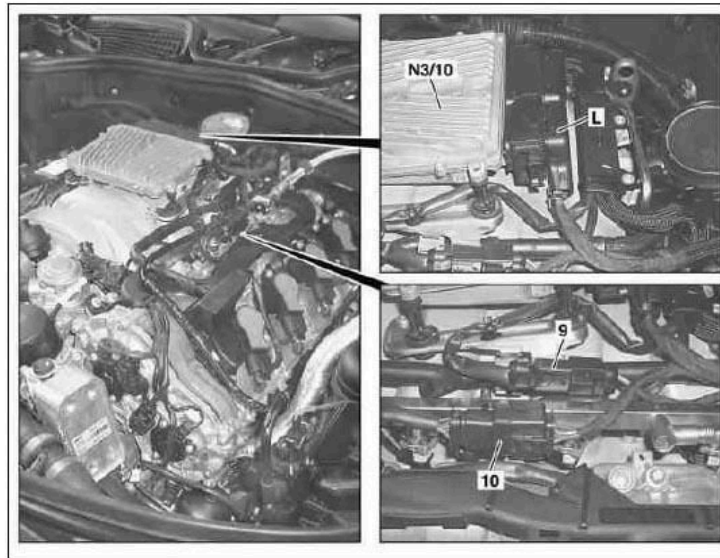
DISCONNECT/CONNECT ENGINE WIRING HARNESS - AR01.00-P-2410SX

ENGINES 272, 273 in MODEL 221

ENGINES 273 in MODEL 216

Shown on model 221.171 with code (487) Active Body Control (ABC)

- 9 Electrical connector
- 10 Electrical connector
- N3/10 ME-SFI [ME] control unit
- L Electrical connector

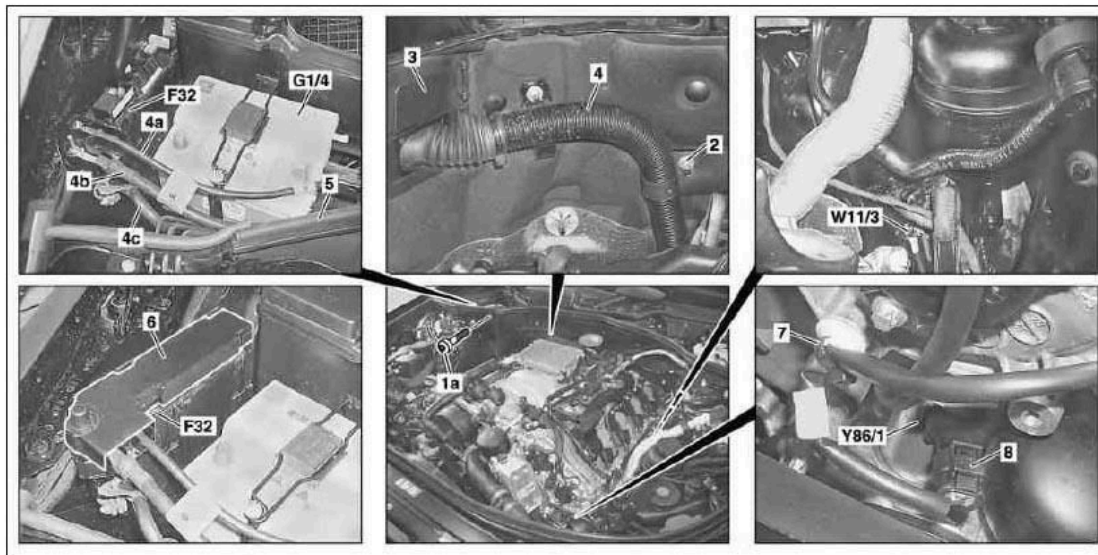


P15.18-2099-06

Fig. 44: Identifying ME-SFI [ME] Control Unit And Electrical Connectors (Shown On Model 221.171)
Courtesy of MERCEDES-BENZ USA

2010 Mercedes-Benz CL550

ENGINE Complete Engine - CL550 - 216 Chassis



P15.18-2100-09

- | | | | | | |
|----|-----------------|----|-----------------|-------|------------------------------|
| 1a | Screw | 4b | Electrical line | 8 | Electrical connector |
| 2 | Nut | 4c | Electrical line | F32 | Front prefuse |
| 3 | Protective cap | 5 | Rubber seal | G1/4 | Starter battery |
| 4 | Cable harness | 6 | Cap | W11/3 | Ground (engine, left) |
| 4a | Electrical line | 7 | Cable tie | Y86/1 | ABC suction restrictor valve |

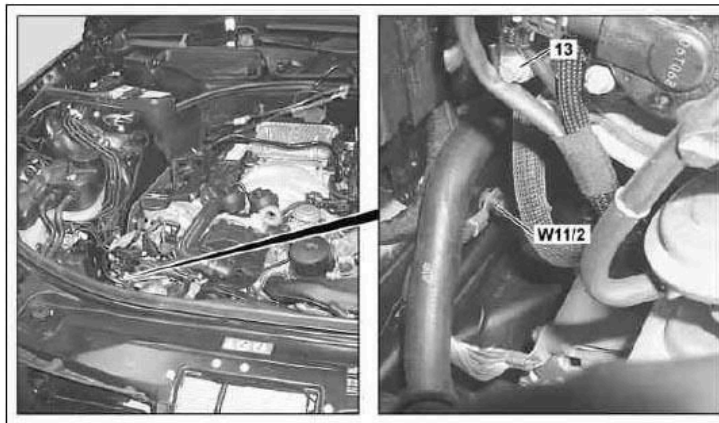
Fig. 45: Identifying Engine Wiring Harness Related Components (Shown On Model 221.171 With Code 487)

Courtesy of MERCEDES-BENZ USA

Shown on model 221.171 with code (487) Active Body Control (ABC), 221 up to 1.06.2008 except code (809) model year 2009

Shown on model 221.186

- | | |
|-------|------------------------|
| 13 | Screw |
| W11/2 | Ground (engine, right) |

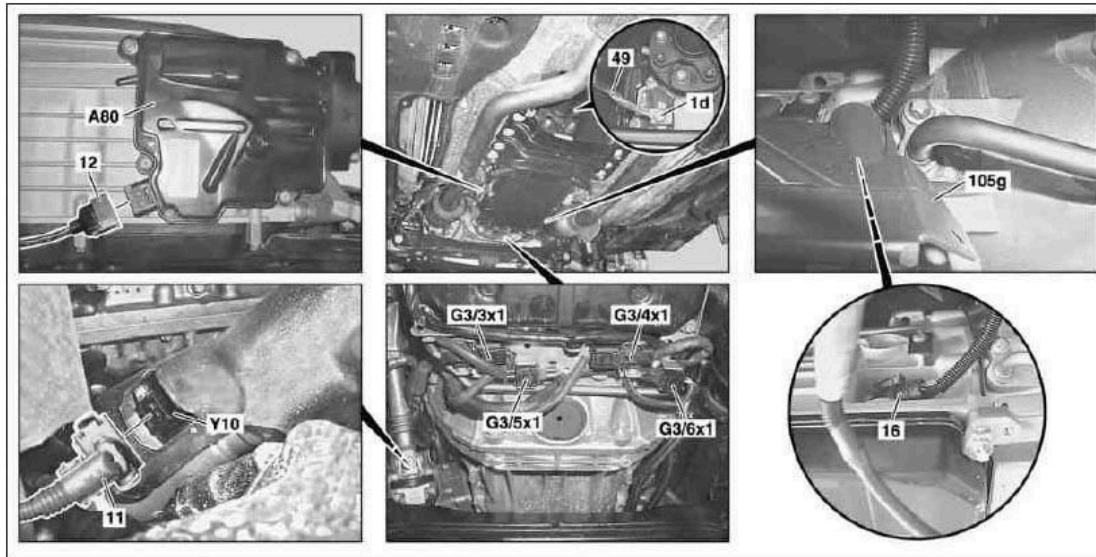


P01.00-2849-05

2010 Mercedes-Benz CL550

ENGINE Complete Engine - CL550 - 216 Chassis

Fig. 46: Identifying Ground And Screw (Shown On Model 221.186)
 Courtesy of MERCEDES-BENZ USA



P01.00-2721-09

- | | | | | | |
|--------|---|--------|--|--------|--|
| 1d | Screw | A80 | Intelligent servo module for DIRECT SELECT | G3/5x1 | Connector, left O2 sensor, downstream CAT |
| 11, 12 | Electrical connector | G3/3x1 | Connector, left O2 sensor, upstream CAT | G3/6x1 | Connector, right O2 sensor, downstream CAT |
| 16 | Electronic transmission control connector | G3/4x1 | Connector, right O2 sensor, upstream CAT | Y10 | SPS [PML] solenoid valve |
| 49 | Ground strap | | | | |
| 105g | Shield | | | | |

Fig. 47: Identifying O2 Sensor Connectors, Screws And Electrical Connectors (Shown On Model 221.171)
 Courtesy of MERCEDES-BENZ USA

Shown on model 221.171 with code (487) Active Body Control (ABC)

	Remove/install		
	Risk of death caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between columns of vehicle lift and position four support plates at vehicle lift support points specified by vehicle manufacturer.	AS00.00-Z-0010-01A
	Information on preventing damage to electronic components due to electrostatic discharge		AH54.00-P-0001-01A
	Risk of death when touching components on vehicles with high-voltage on-board electrical system	Do not touch components and open lines of the high-voltage on-board electrical system. Persons who are carriers of electronic implants (e.g. cardiac pacemakers), must not carry out any work on high-voltage on-board electrical systems.	AS54.00-Z-0001-01A

2010 Mercedes-Benz CL550

ENGINE Complete Engine - CL550 - 216 Chassis

1	Perform disable for the high-voltage on-board electrical system	Model 221.095 / 195 [i] After completing the work, attach initial startup event log together with the disconnection log to the vehicle file.	AR54.10-P-1150SXH
[i]	Note on high-voltage on-board electrical system		AH54.00-P-0010-01A
2	Detach ground line(s) from battery/batteries	[i] Insulate clamping device of the ground line in order to prevent inadvertent contact with the ground point of the battery.	AR54.10-P-0003SX
3	Remove left engine ground (W11/3) from longitudinal member	Except model 221.095 /195	
4	Remove right engine ground (W11/2) from longitudinal member	Vehicles with engine 273 and 4MATIC	
5	Unscrew bolt (13) from front cover on cylinder head	Vehicles with engine 273 and 4MATIC [G]	*BA01.30-P-1006-01O
6	Unclip cable duct from bulkhead; remove rubber seal (5) from bulkhead to do this	Model 221.095 / 195	
7	Detach high voltage line from high-voltage battery and remove bracket for the high voltage line from the bulkhead and lay high voltage line on the engine	Model 221.095 / 195 [G]	*BA54.10-P-1036-01C
		[!]	Fig. 48
8	Remove cover (6) from prefuse box (F32)		
9.1	Remove electrical lines (4a, 4b) from prefuse box (F32)	Except model 221.095 /195	
9.2	Detach electrical line (4) from prefuse box (F32) and lay on the engine	Model 221.095 / 195	
10	Remove electrical lines (4a, 4c) from starter battery (G1/4)	Vehicles up to 1.06.2008 except code (809) model year 2009, except model 221.095/ 195	
11	Detach rubber seal (5) from bulkhead	Except model 221.095 /195	
12	Remove bolt (1a) out of bulkhead	Vehicles with engine 273 without 4MATIC	
13	Pull out protective cap (3) upwards	Except model 221.095 /195	
14	Disconnect electrical connector to the vacuum pump	Model 221.095 / 195	
15	Detach control line from electrical refrigerant compressor and place to one side	Model 221.095 / 195	
16	Unscrew nut (2) and lay cable harness (4) on engine	Except model 221.095 /195	