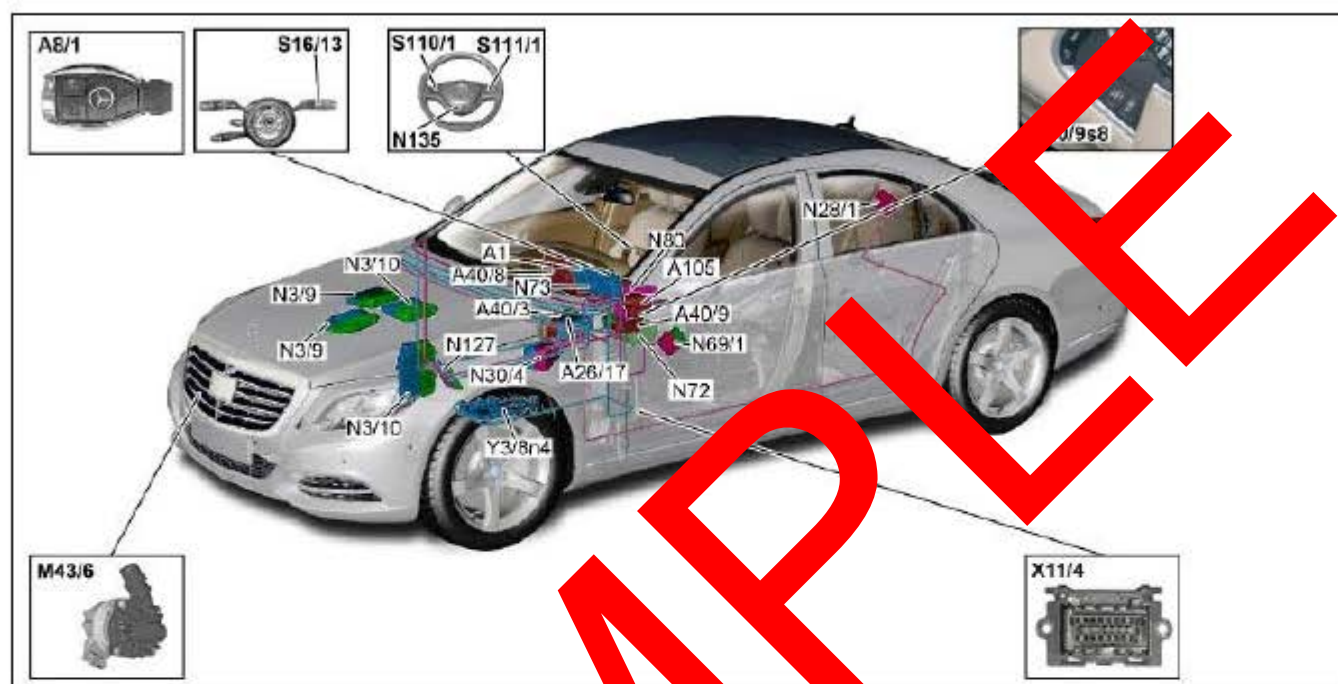


TRANSMISSION 725.0 in MODEL 217, 222

Phantom view of vehicle; illustration shows model 222



P27.19-2665-79

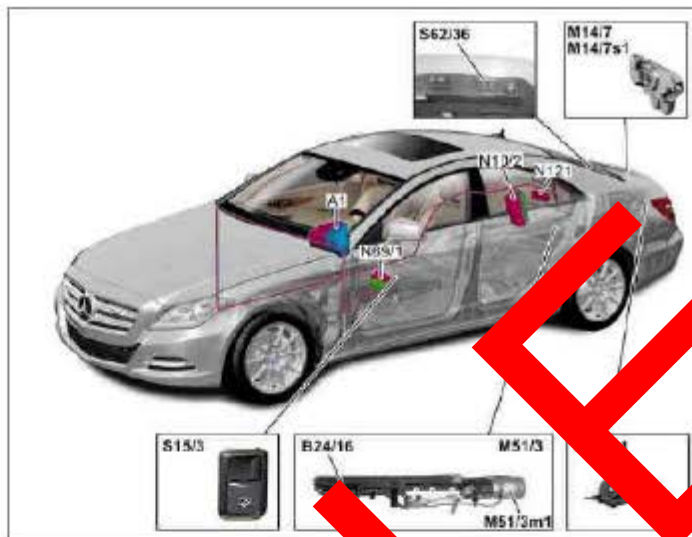
A1	Instrument cluster	N3/10	ME-SFI (ME) control unit (with gasoline engine)	N135	Steering wheel electronics
A8/1	Transmitter key	N28/1	Trailer recognition control unit (with CODE 550 (Trailer hitch))	S16/13	DIRECT SELECT lever
A40/3	COMAND control unit	N30	Electronic Stability Program control unit	S110/1	Steering wheel downshift button
A40/9	COMAND control unit	N69/1	Left front door control unit	S111/1	Steering wheel upshift button
A40/9s8	Transmission mode button	N73	Electronic ignition switch control unit	X11/4	Diagnostic connector
M43/6	Low temperature circuit	N80	Steering column module control unit	Y3/8n4	Fully integrated transmission control unit (with integrated transmission oil temperature sensor Y3/8s2)
N3/9	CDI control unit (with diesel engine)	N127	Drivetrain control unit		

Fig. 22: Overview Of Automatic Transmission System Components - Shown On Model 222

Courtesy of MERCEDES-BENZ USA

Sectional view of automatic transmission with torque converter and integrated centrifugal pendulum (shown on vehicles with rear wheel drive)

- A1 Instrument cluster
- B24/16 Trunk lid/liftgate position sensor
- M14/7 Trunk lid/liftgate control locking motor
- M14/7s1 Trunk lid/liftgate rotary tumbler switch
- M14/31 Trunk lid/liftgate locking element
- M51/3 Trunk lid/liftgate control drive unit
- M51/3m1 Trunk lid/liftgate control electric motor
- N10/2 Rear SAM control unit with fuse and relay module
- N69/1 Left front door control unit
- N121 Trunk lid control control unit
- S15/3 Driver trunk lid/liftgate control button
- S62/36 Trunk lid/liftgate control button

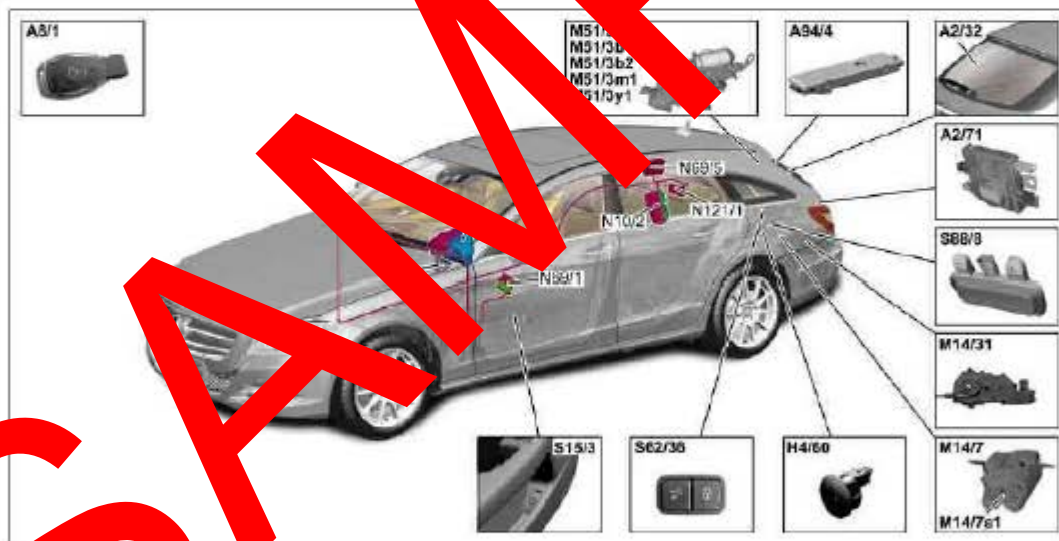


P80 20-3538-78

Fig. 2: Identifying Trunk Lid Control Components - Shown On Model 218 With Code (881)

Courtesy of MERCEDES-BENZ USA

Liftgate control, model 218.9



P80 20-3735-79

- | | | |
|--|--|---|
| A1 Instrument cluster | M51/3b2 Trunk lid/liftgate control position sensor | M51/3m1 Trunk lid/liftgate control electric motor |
| A2/32 Rear window antenna | M51/3y1 Trunk lid/liftgate control magnetic clutch | N10/2 Rear SAM control unit with fuse and relay module |
| A2/71 Rear window antenna amplifier 1 | N69/1 Left front door control unit | N69/5 Keyless-Go control unit (with code (889)) Keyless-Go) |
| A8/1 Transmitter key | N73 Electronic ignition switch control unit | N121/1 Tailgate control control unit |
| A94/4 KEYLESS-GO antenna amplifier (with code (889)) KEYLESS-GO) | S15/3 Driver trunk lid/liftgate control button | S62/36 Trunk lid/liftgate control button |
| H4/60 Trunk lid/liftgate control warning buzzer | S88/8 Trunk lid/liftgate external operation switch | |
| M14/7 Trunk lid/liftgate control locking motor | | |
| M14/7s1 Trunk lid/liftgate rotary tumbler switch | | |
| M14/31 Trunk lid/liftgate locking element | | |
| M51/3 Trunk lid/liftgate control drive unit | | |
| M51/3b1 Trunk lid/liftgate control electric motor | | |

- 12 Intake manifold with integral vacuum memory
- 12/1 Tumble flap shaft, left cylinder bank
- 12/2 Tumble flap shaft, right cylinder bank
- 12/3 Longitudinal switch flap shaft, right cylinder bank
- 12/4 Longitudinal switch flap shaft, left cylinder bank
- 22/6 Intake manifold switchover aneroid capsules
- 22/9 Tumble flap switchover aneroid capsule
- Y22/6 Variable intake manifold switchover valve
- Y22/9 Intake manifold tumble flap switchover valve

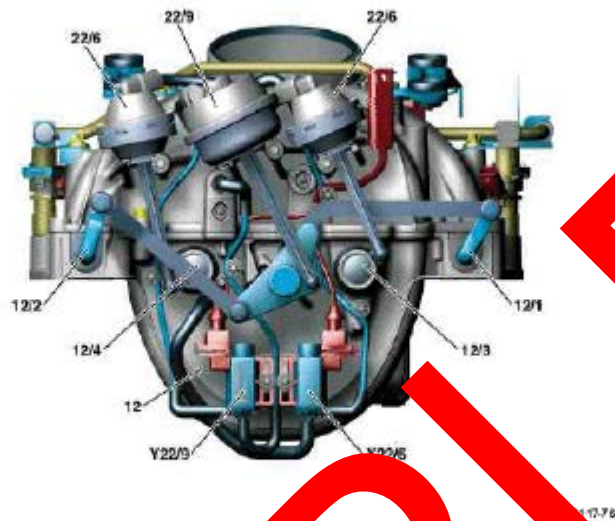


Fig. 18: Identifying Intake Manifold Design - Shown on Engine 273
Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Shown on ENGINE 273

- 12 Intake manifold with integral vacuum memory
- 12/1 Tumble flap shaft, left cylinder bank
- 12/2 Tumble flap shaft, right cylinder bank
- 22/6 Variable intake manifold switchover diaphragm unit
- 22/9 Tumble flap switchover aneroid capsule
- Y22/6 Variable intake manifold switchover valve
- Y22/9 Intake manifold tumble flap switchover valve

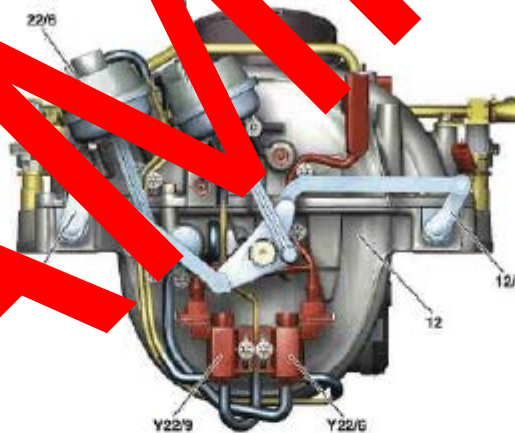


Fig. 19: Identifying Intake Manifold Design - Shown On Engine 273
Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Intake manifold switchover, function

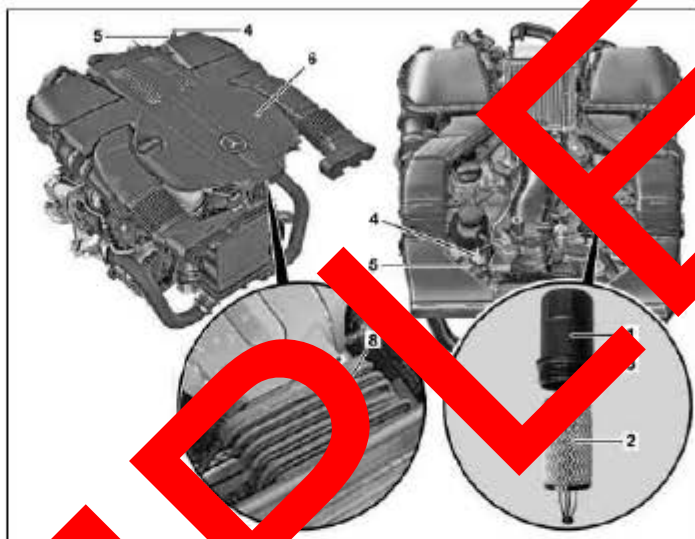
The individual intake manifolds each approx. 800 mm long, are arranged in a spiral shape around the air collecting volume. Each single intake manifold has a further opening to the air collecting volume somewhere in the middle. These can be opened or closed by rotating longitudinal switch flap shafts. The switch flaps of a

Number	Designation	Engine 274.920 in model 218
	Specification	-

Engine oil and filter change (Engine 276 in model 172, 204, 205, 207, 212, 217, 218, 221, 222, 231) - AP18.00-P-0101CWZ

ENGINE 276.8

- 1 Oil filter screw-on cover
- 2 Oil filter element
- 3 Sealing ring
- 4 Oil dipstick
- 5 Oil measuring pipe
- 6 Engine cover
- 8 Cold air duct



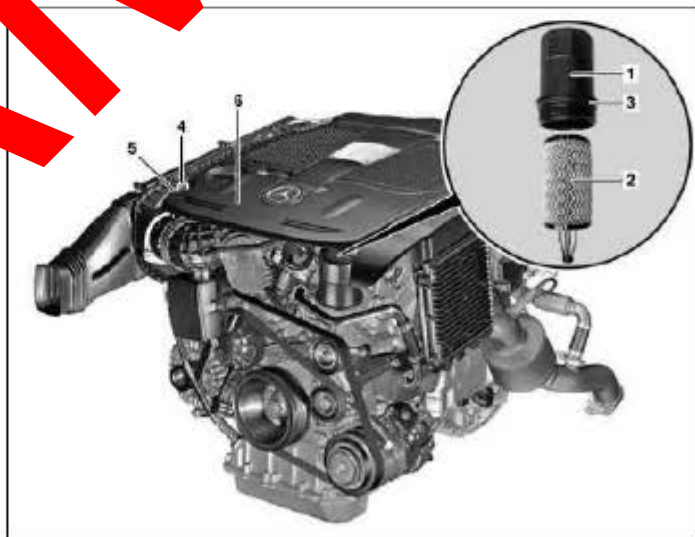
P18.00-2343-08

Fig. 9: Identifying Oil Filter Element, Sealing Ring And Oil Dipstick (Engine 276.8)

Courtesy of MERCEDES-BENZ USA

ENGINE 276.9

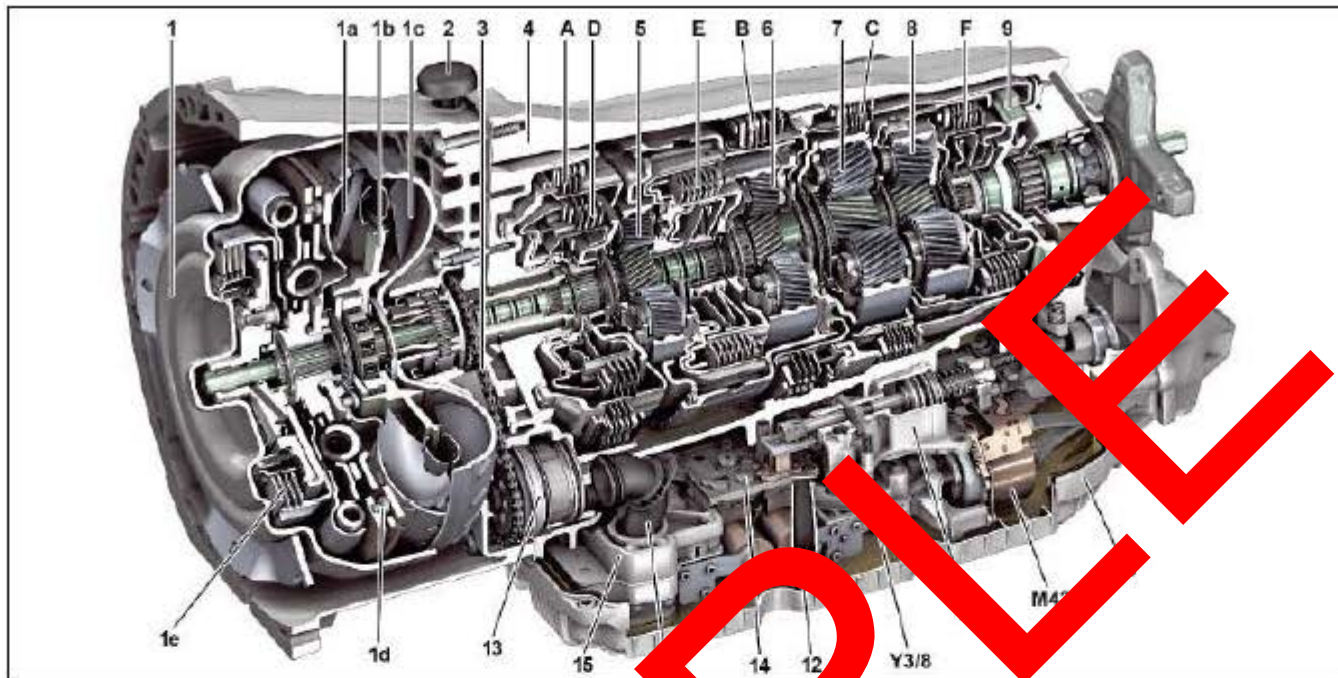
- 1 Oil filter screw-on cover
- 2 Oil filter element
- 3 Sealing ring
- 4 Oil dipstick
- 5 Oil measuring pipe
- 6 Engine cover



P18.00-2344-08

Fig. 10: Identifying Oil Filter Element, Sealing Ring And Oil Dipstick (Engine 276.9)

Courtesy of MERCEDES-BENZ USA



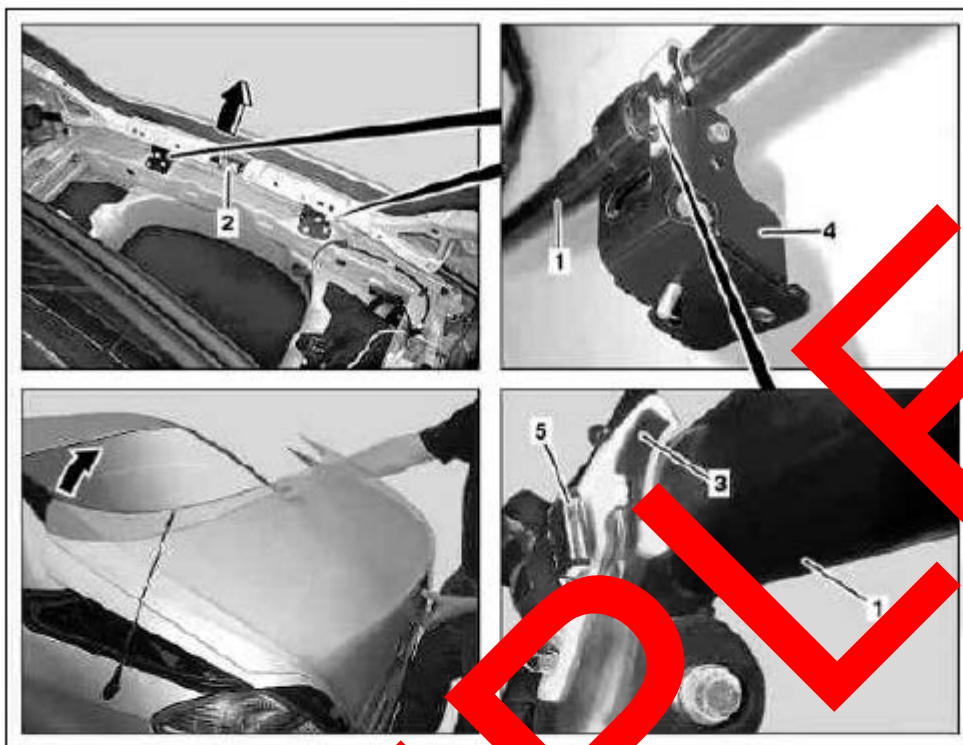
P27.10-2453-79

1	Torque converter cover	Planetary gear system	15a	Pressure and oil suction pipes	
1a	Turbine wheel	Planetary gear set 3	M42	Electric auxiliary oil pump	
1b	Stator	Planetary gear set 4	Y3/8	Fully integrated transmission control unit	
1c	Impeller	9	Park pawl	A	B08 multidisk brake
1d	Centrifugal pendulum	10	Oil pan	B	B05 multidisk brake
1e	Torque converter lock (WÜK)	11	Housing of electrohydraulic parking lock actuator	C	B06 multidisk brake
2	Transmission housing, front	Guideline	D	K81 multidisk clutch	
3	Oil pump chain drive	Oil pump	E	K36 multidisk clutch	
4	Transmission housing, rear	14	Supporting body of fully integrated transmission control	F	K27 multidisk clutch
5	Planetary gear set 1	15	Cover/shift valve body		

Fig. 23: Sectional View of Automatic Transmission With Torque Converter And Integrated Centrifugal Pendulum

Courtesy of MERCEDES-BENZ USA

View of fully integrated transmission control controller unit (Y3/8) from above



P88 50-2526-06

Fig. 1: Moving Tubular Frame (Shown On Model 100)

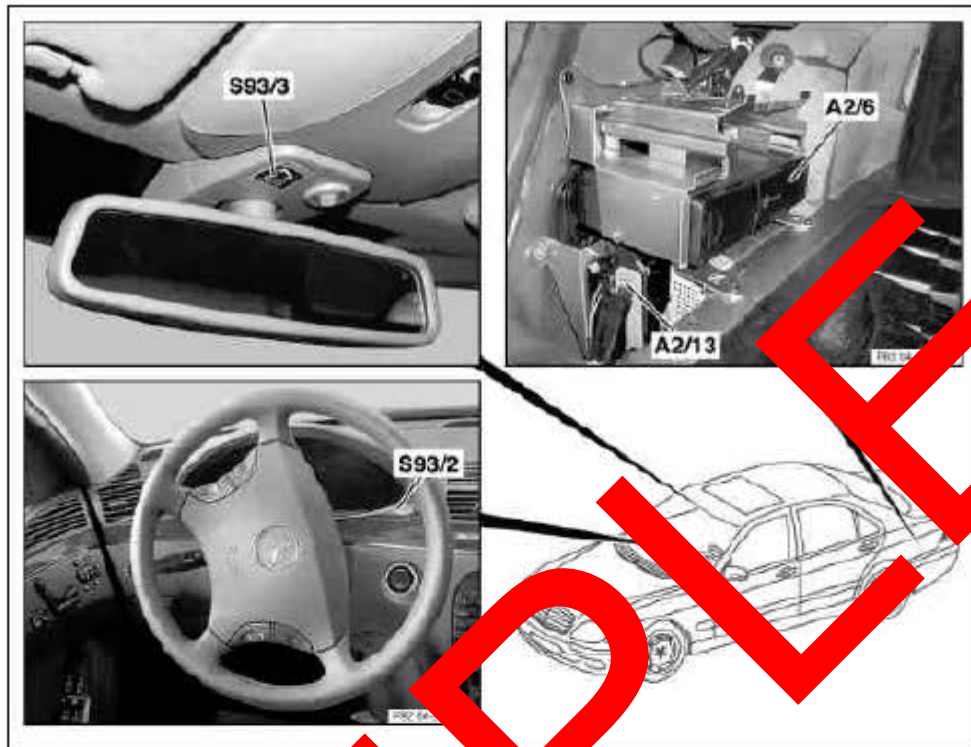
⚠ When the tubular frame (1) is moved for hand readjustment work or repair, it is necessary to ensure that the tubular frame (1) is simultaneously pulled toward the rear and upward when moving in the area of the striker eye (2).

This applies even when the trunk lid is locked by the trunk lid lock. Here, it is necessary to pull the trunk lid toward the rear and simultaneously upward on the handle when moving the tubular frame (1).

This serves to prevent the brackets (3) of the 2-articulated hinges (4) lying above the shackles (5) on the tubular frame (1).

When attaching the tubular frame (1) to the rear center assembly, ensure that the shackle (3) is located inside the lug (5).

If the tubular frame (1) is moved, when the shackles (5) are over the brackets (3) or if the brackets (3) are tilted, the tubular frame (1) and the 2-articulated (4) will be damaged and the tubular frame (1) will have to be replaced.



P82 64-2470-06

Fig. 98: Identifying Sound Amplifier And CD Player With Changer
Courtesy of MERCEDES-BENZ USA

- TELE AID emergency call system
SOS push button (S93/3) present.
- Cell phone option
Open glove compartment.

NOTE TELEPHONE RETROFITTING

Non telephone retrofitting H82.70-P-0001-04A

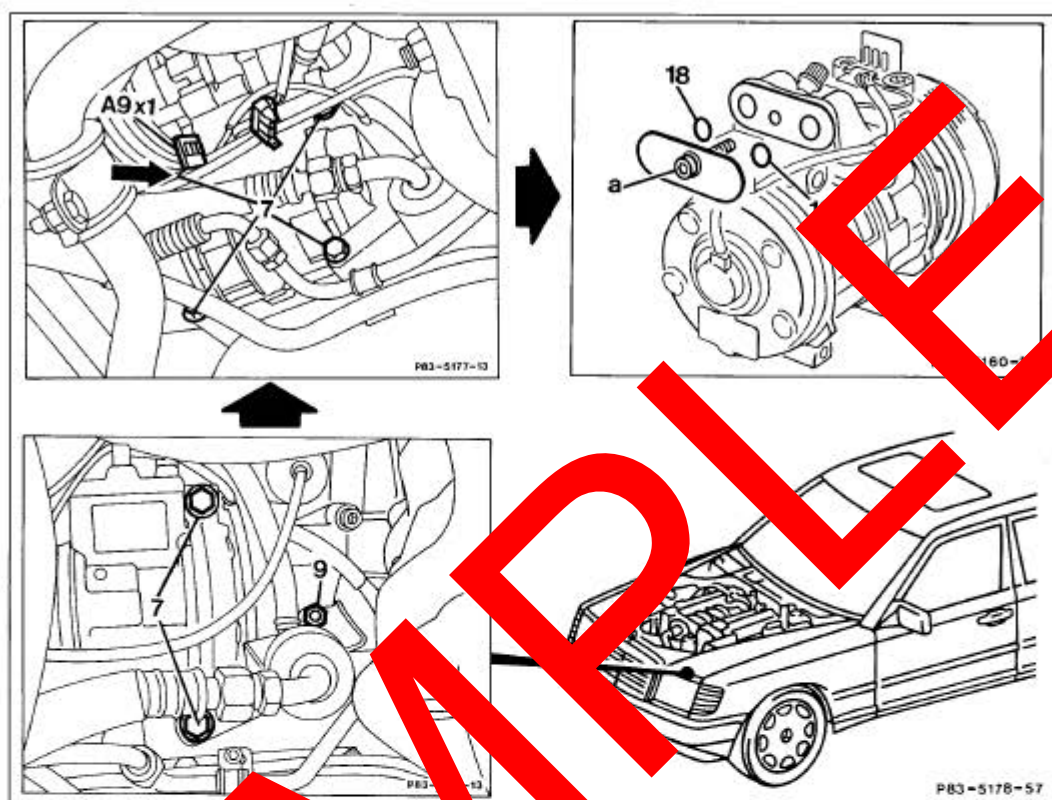
MODEL 168 as of 7/1/98 up to 6/30/00, 168 as of 7/1/98 up to 6/30/00, 170 as of 7/1/98 up to 6/30/00, 202 as of 7/1/98 up to 6/30/00, 208 as of 7/1/98 up to 6/30/00, 210 as of 7/1/98 up to 6/30/00 without CODE 347 (TELE AID emergency call system (D2B)) without CODE 930 (Taxi emergency call)



The retrofitting of a telephone with D2B optical fiber technology, is only advisable for vehicles in which the components of the D2B ring are present, and only in combination with the Audio 30 radio.

Vehicles without these components should be retrofitted, where possible, with conventionally connected

C. Engine 119



Air conditioner	empty (recycling).
Lower engine compartment lining	remove.
Poly-V-belt	release tension and remove (13-342).
Air supply pipe for the engine bearing	remove (3 screws).
Left engine compartment lining	remove.
Attachment (A9x1)	disconnect.
Level line to pump and oil pan	remove.
Torsion bar at front fixing	remove (2 clamps, 4 self-locking nuts).



Self-locking nuts and bolts are always to be replaced with new ones when removed.

Line for engine oil cooler	remove (2 screws).
----------------------------------	--------------------

1. Start the engine and allow it to reach normal operating temperature, then turn the ignition switch OFF.
2. Disconnect the negative battery cable.
3. Open the hood and locate the Oxygen (O2S) sensor connector. It may be necessary to raise and safely support the vehicle for access to the sensor and its connector.

NOTE: On a few models, it may be necessary to remove the passenger seat and lift the carpeting in order to access the connector for a downstream O2S sensor.

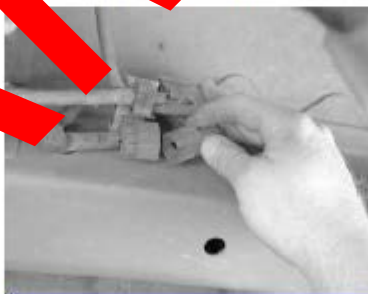
Since sensor locations vary between vehicles, the first step in removal is to locate the O2S sensors (arrows)...



... and the sensor connector (2) is usually located near the O2S sensor (1), but removed enough from the exhaust system



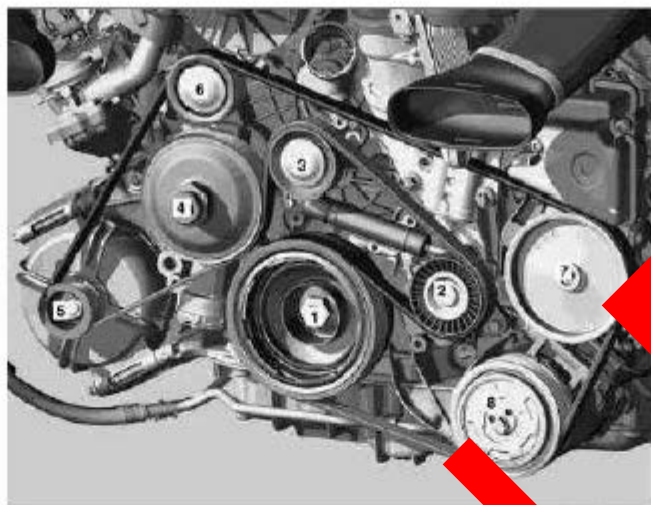
Disengage the sensor connector half from the vehicle harness connector half



For flange type sensors, loosen the hold-down fasteners...



- 1 Belt pulley/vibration damper
- 2 Tensioning pulley
- 3 Pulley
- 4 Coolant pump belt pulley
- 5 Generator belt pulley
- 6 Pulley
- 7 Power steering pump belt pulley
- 8 Belt pulley on refrigerant compressor



P13.22.2013.06

Fig. 10: Routing Diagram Of Poly V-Belt - Shown On Engine 272.942
Courtesy of MERCEDES-BENZ USA

MAINTENANCE

CHECK POLY-V-BELT IN VISIBLE AREA FOR WEAR (AP13.22-P-1352)

Check poly-V-belt in visible area for wear (ENGINE 272) (AP13.22-P-1352VA)

ENGINE 272.942 in MODEL 170 154

ENGINE 272.963 in MODEL 170 156

- 1 Poly-V-belt



P13.22.21.30.01

Fig. 11: Inspecting Poly-V-Belt
Courtesy of MERCEDES-BENZ USA

Damage diagram

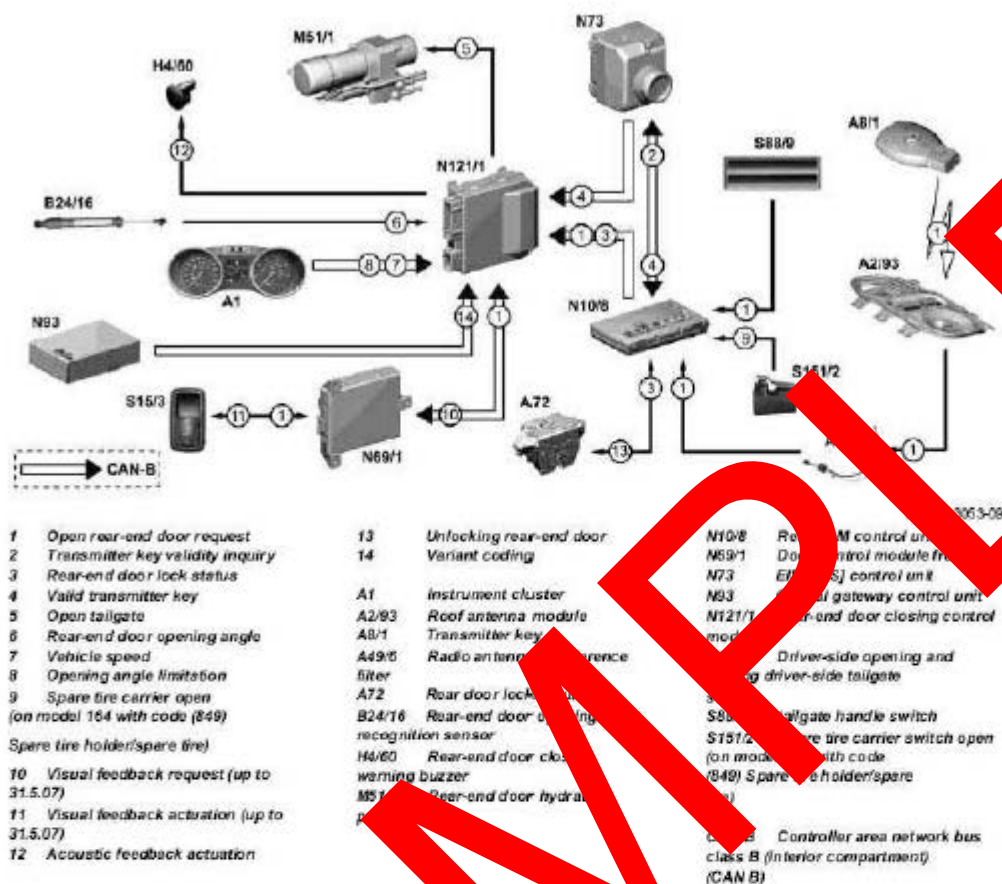


Fig. 12: Tailgate Opening Function Diagram
 Courtesy of MERCEDES-BENZ OF NORTH AMERICA.

Function requirements (general)

- Circuit 30
- System synchronized
- Speed = 0 km/h
- Spare tire holder/spare tire in 90° position
 (on model 164 with code (849) Spare tire holder/spare tire)

Open tailgate

the rear-end door function consists of the following functions:

- Opening rear-end door via rear-end door handle switch
- Opening rear-end door via rear-end door switch

