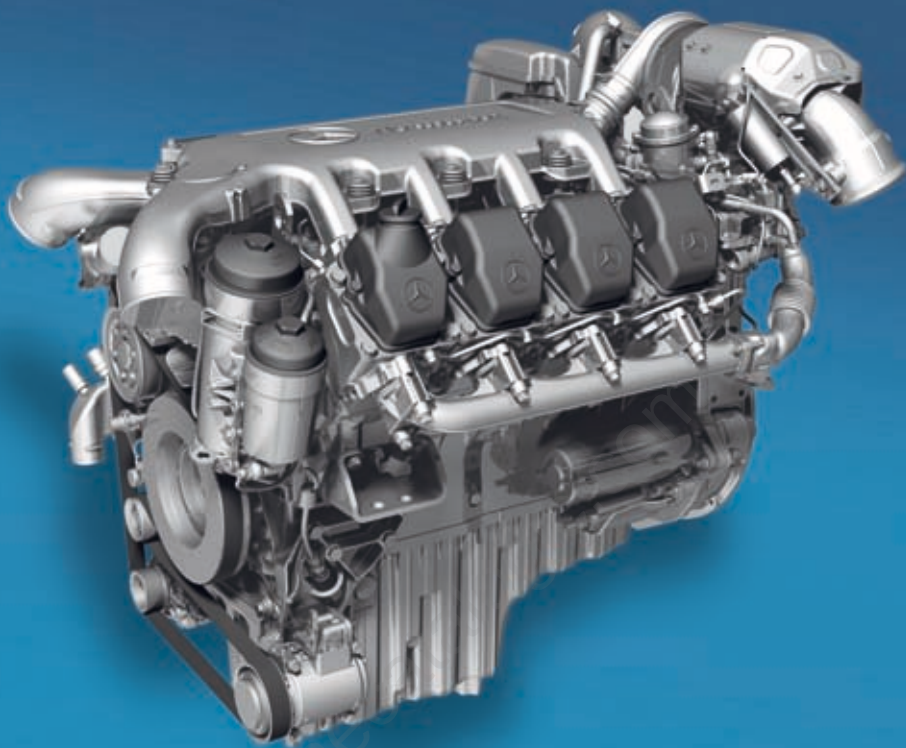




OM 501 LA BlueTec[®] / OM 501 LA OM 502 LA BlueTec[®] / OM 502 LA

Operating Instructions



Mercedes-Benz

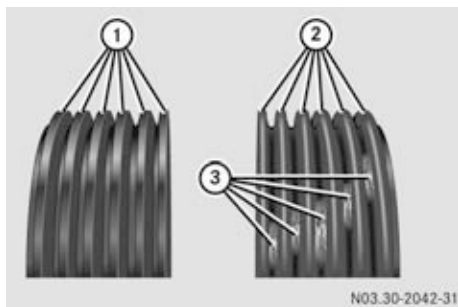


Example: diagnostic socket



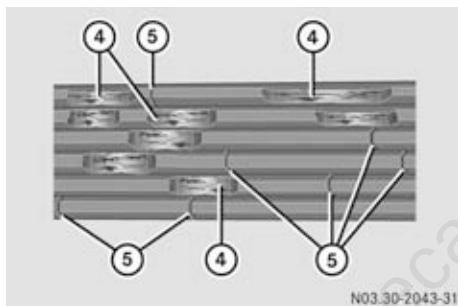
Example: EU compliant service connector

machinecatalogic.com



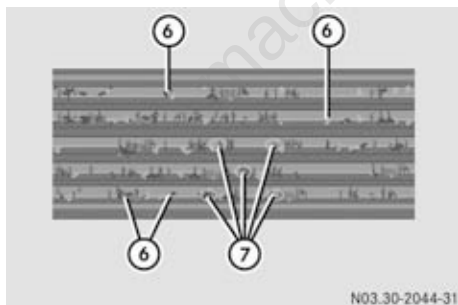
N03.30-2042-31

- ① New condition (for comparison; trapezoidal ribs)
- ② Single-sided wear: wedge-shaped ribs
- ③ Cord visible at the base of the belt



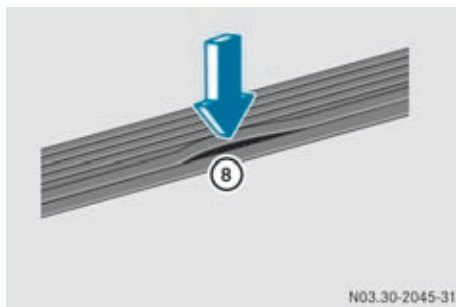
N03.30-2043-31

- ④ Breaks in the ribs
- ⑤ Transverse cracks in several ribs



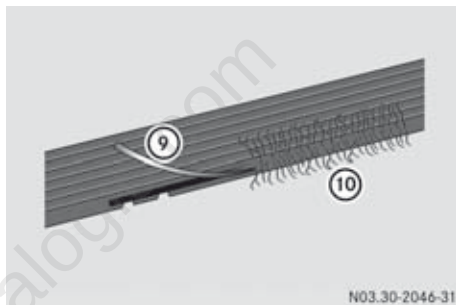
N03.30-2044-31

- ⑥ Rubber nodules at the base of the belt
- ⑦ Deposits of dirt or stones



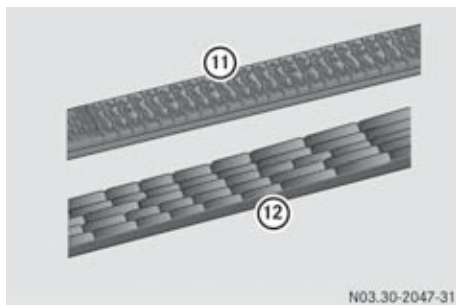
N03.30-2045-31

- ⑧ Rib detached from the base of the belt



N03.30-2046-31

- ⑨ Cord torn out of the side
- ⑩ Outer cord frayed



N03.30-2047-31

- ⑪ Transverse cracks on the back of the belt
- ⑫ Transverse cracks in several ribs

► Check the poly-V-belt for damage regularly.

Fuel circuit

The following picture shows the arrangement of the fuel connectors with the fuel filter mounted on the engine.

General data

All data refers to the standard version of the respective engine type. Data for other versions is available on request.

Engine	Engine type	OM 501 LA	OM502 LA
	Assembly model series	541.9/941.9	542.9/942.9
	Type	Turbocharged V engine with intercooler	
	Combustion principle	4-stroke direct injection diesel	
	Number of cylinders	6	8
	Bore	130 mm	130 mm
	Stroke	150 mm	150 mm
	Engine capacity	11946 cm ³	15927 cm ³
	Type of cooling system	Forced circulation cooling	
	Engine, direction of rotation	Anti-clockwise (when looking at the flywheel)	
Valve clearance	Intake valve	0.40 mm	0.40 mm
	Exhaust valve	0.60 mm	0.60 mm
Starter motor	Starter	Electric	Electric
	Voltage	12 V/24 V	12 V/24 V
	Output	6.2 kW	6.2 kW
Battery	Voltage	12 V/24 V	12 V/24 V
	Cold-discharge test current	Maximum 700 A	Maximum 700 A
	Cold start ability	Up to maximum -20 °C (battery charge level 75%)	
Alternator	Voltage	28 V	28 V
	Amperage	35/80 A	35/80 A

Operating data

Engine type	OM 501 LA	OM 502 LA
Rated engine speed	1800 rpm	1800 rpm
Effective engine speed range	2000 rpm	2000 rpm

Full Version Available

Mercedes-Benz 900.9 Engine Operator Manual

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