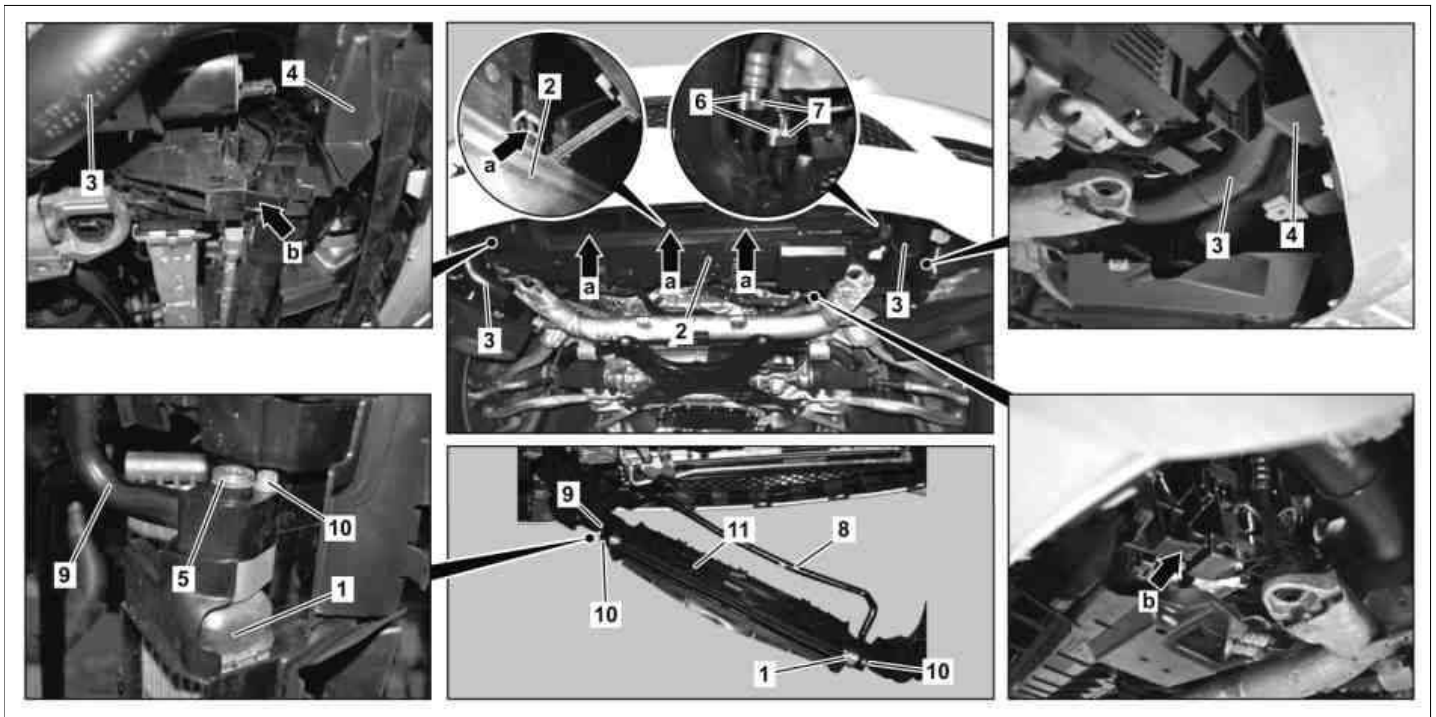


- ENGINE** 157, 278 in MODEL 212, 218  
with CODE 139 (M157/M278 engine cooling measures)
- ENGINE** 278 as of 3/1/12 in MODEL 207.3/4  
with CODE 139 (M157/M278 engine cooling measures)



P18.30-2158-09

- |   |                   |   |                        |    |                      |
|---|-------------------|---|------------------------|----|----------------------|
| 1 | Engine oil cooler | 5 | Oil drain screw        | 9  | Oil line (feed line) |
| 2 | Lower air ducting | 6 | Screw/bolts            | 10 | Screw/bolts          |
| 3 | Air ducts         | 7 | Separating points      | 11 | Air duct housing     |
| 4 | Air ducting       | 8 | Oil line (return line) |    |                      |

☒ ☒	Remove/install		
	<b>Risk of death</b> caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between vehicle lift columns and position the four support plates at the vehicle lift support points specified by vehicle manufacturer.	AS00.00-Z-0010-01A
1	Remove front section of lower engine compartment paneling	<b>i</b> <b>Installation:</b> Install front section only after the leak test.	AR61.20-P-1105EW
2	Remove lower air ducting (2)	<b>i</b> 3 catch tabs (arrows a) and 2 shackles on the fan unit.	
3	Remove air ducts (3) and air ductings (4) on the left and right from the cooler	<b>i</b> The respective air duct (3) is locked with a rotary catch above in the air ducting (4). The right air duct (3) is screwed onto the charge air cooler circulation pump (low-temperature circuit coolant pump).	

4	Unlock engine oil cooler (1) on catch hooks (arrows b) on the left and right from engine oil cooler (1) and remove engine oil cooler (1) together with air duct housing (11) far enough downwards until the oil drain screw (5) and connecting points (7) are accessible		
5	Remove oil drain screw (5) on engine oil cooler (1)	Collect engine oil in a container. Oil drain screw of oil cooler	*BA18.30-P-1012-01G
6	Remove screw/bolts (6) and disconnect oil lines (8, 9) at connecting points (7)	<b>Installation:</b> Install new sealing rings. Bolt, connecting point for oil lines	*BA18.30-P-1011-01G
7	Remove engine oil cooler (1) downwards		
8	Remove screw/bolts (10) and take off oil lines (8, 9).	<b>Installation:</b> Install new sealing rings. Only when replacing the engine oil cooler (1) or the oil lines (8, 9). Bolt, oil cooler line to oil cooler	*BA18.30-P-1004-01G
9	Disconnect two-piece air duct housing (11) and remove from engine oil cooler (1)	Only when replacing the engine oil cooler (1) or the air duct housing (11). 3 catch tabs above and 4 catch tabs below on air duct housing (11).	
10	Install in the reverse order		
	<b>Check</b>		
11 AP AP	Check engine oil level and adjust correctly	Engine 157 in model 212, 218 Engine 278 in model 207, 212, 218	AP18.00-P-0101EWG AP18.00-P-0101EW
12	<b>Risk of accident</b> from vehicle starting off by itself when engine running. <b>Risk of injury</b> (bruises and burns) resulting from working on the engine while it is being started or when it is running. Carry out engine test run and check engine for leaktightness while it is running	Secure vehicle to prevent it from starting off by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A

Oil cooling system

Number	Designation		ENGINE 157	ENGINE 278
BA18.30-P-1012-01G	Oil drain screw of oil cooler	Nm	–	15

Oil cooling system

Number	Designation		ENGINE 157	ENGINE 278
BA18.30-P-1004-01G	Bolt, oil cooler line to oil cooler	Nm	9	8

Oil cooling system

Number	Designation		ENGINE 157	ENGINE 278
BA18.30-P-1011-01G	Bolt, connecting point for oil lines	Nm	–	8