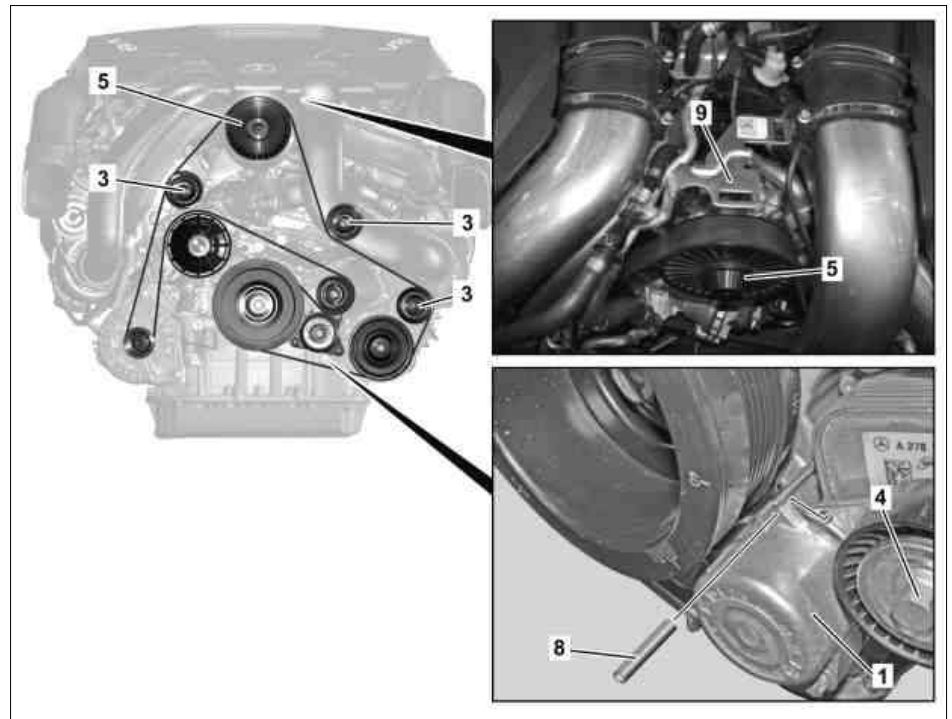


Engine 157, 278 in model 212, 218  
 Engine 278 in model 207

- 1 Tensioning device  
 3 Guide pulley  
 4 Hexagon  
 5 Upper guide pulley  
 8 Drift  
 9 Bracket



P13.20-2090-06

	<b>Remove/install</b>		
Warning	<b>Risk of injury</b> caused by fingers being jammed or pinched when removing, installing or aligning hoods, doors, trunk lid/rear-end door or sliding roof.	No parts of the body or limbs should be within the operating area when the components are moving.	AS00.00-Z-0011-01A
1	Remove engine covers		
2	Slacken poly-V belt and remove	<p> <b>Installation:</b> Do not use belt wax or similar products. This leads to slipping of the poly-V belt.</p> <p> To do so, swivel clamping device (1) at hexagon (4) counterclockwise, remove poly-V belt and detension clamping device (1).</p> <p> <b>Installation:</b> Observe poly-V belt routing diagram.</p>	AR13.22-P-3902-02MM
	<b>Check</b>		
3	Check belt pulley profile, tensioning device (1) and guide pulleys (3)	Check for damage, wear and dirt; replace if necessary.	
4 	Check poly-V belt	Check for damage, wear and dirt; replace if necessary.	AP13.22-P-1352CW
	<b>Only perform operation steps 5 through 9 for remove/install of clamping device (1).</b>		
5	Remove front section of lower engine compartment paneling		AR61.20-P-1105EW
6	Lock clamping device (1)	Swivel clamping device (1) at hexagon (4) counterclockwise and lock in place using drift (8).	
7	Remove screw/bolts on clamping device (1)	Bolt, poly-V belt tensioning device to timing case cover	*BA13.25-P-1001-01Y
8	Remove clamping device (1) downwards		

9	Slacken clamping device (1)	When replacing the clamping device (1) <i>i</i> Clamp tensioning device (1) in a vise, swivel at hexagon (4) in an anti-clockwise direction, pull out drift (8) and slacken tensioning device (1). <i>i</i> <b>Installation:</b> The clamping device (1) can be mounted in both a locked and an unlocked condition.	
	<b>Only perform operation steps 10 through 12 for remove/install of guide pulleys (3)</b>		
10	Remove left charge air ducts	When removing the guide pulleys (3) on the left engine side	AR09.41-P-8620ELB
11	Remove bolts for guide pulleys (3)	<i>Nm</i> Bolt, guide pulley to carrier <i>Nm</i> Bolt, guide pulley to coolant pump/oil filter/timing case cover	*BA13.25-P-1002-01Y *BA13.25-P-1005-01Y
12	Remove guide pulleys (3)		
	<b>Only perform operation steps 13 through 15 for remove/install of upper guide pulley (5).</b>		
13	Detach bracket (9) from coolant lines and from carrier for the upper guide pulley (5)	Vehicles with code (139) Measures for engine cooling M157/M278	
14	Remove bolts for upper guide pulley carrier (5)	<i>Nm</i> Bolt, guide pulley carrier/ABC pump to timing case cover/coolant pump	*BA13.25-P-1003-01Y
15	Detach upper guide pulley (5) and carrier from timing case cover	<i>Nm</i> Bolt, guide pulley to coolant pump/oil filter/timing case cover	*BA13.25-P-1005-01Y
16	Install in the reverse order		

*Nm* Belt tensioning device

Number	Designation		Engine 157	Engine 278
BA13.25-P-1001-01Y	Bolt, poly-V belt tensioning device to timing case cover	Nm	20	20

*Nm* Belt tensioning device

Number	Designation		Engine 157	Engine 278
BA13.25-P-1002-01Y	Bolt, guide pulley to carrier	Nm	70	70

*Nm* Belt tensioning device

Number	Designation		Engine 157	Engine 278
BA13.25-P-1003-01Y	Bolt, guide pulley carrier/ABC pump to timing case cover/coolant pump	Nm	20	20

*Nm* Belt tensioning device

Number	Designation		Engine 157	Engine 278
BA13.25-P-1005-01Y	Bolt, guide pulley to coolant pump/oil filter/timing case cover	M8 Nm	35	35
		M10 Nm	35	35