

ENGINES 112 in MODEL 163, 203, 209, 211, 220

ENGINES 113 in MODEL 163, 164, 171, 203, 209, 220, 211, 215, 219, 230, 251

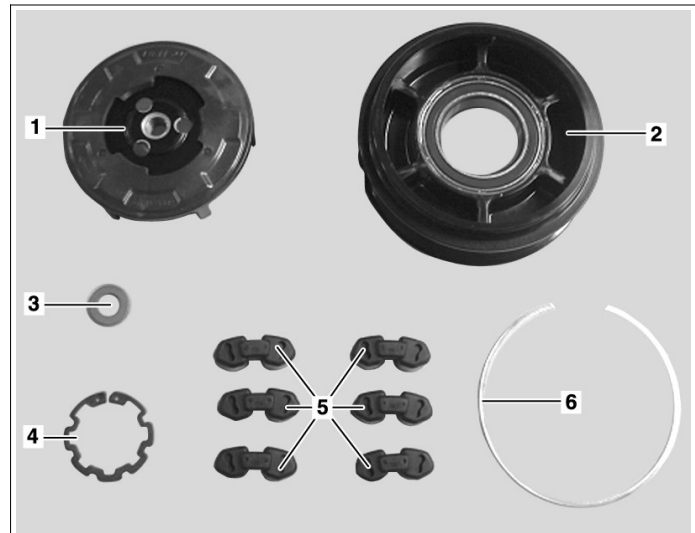
ENGINES 271 in MODEL 171, 203, 209, 211

ENGINES 272 (except 272.974) in MODEL 164, 171, 203, 209, 211, 219, 221, 230, 251

ENGINES 273 in MODEL 164, 209, 211, 216, 219, 221, 230, 251

**Belt pulley parts kit**

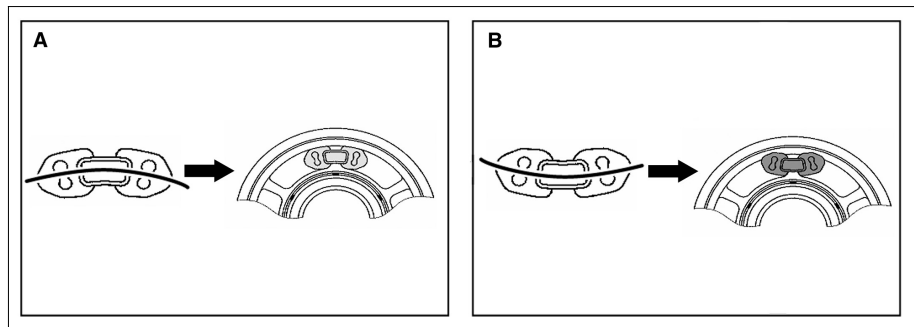
- 1 Hub
- 2 Belt pulley
- 3 Washer
- 4 Retaining ring
- 5 Shock absorber rubber
- 6 Retaining ring



P83.55-2141-11

**Picture 1**

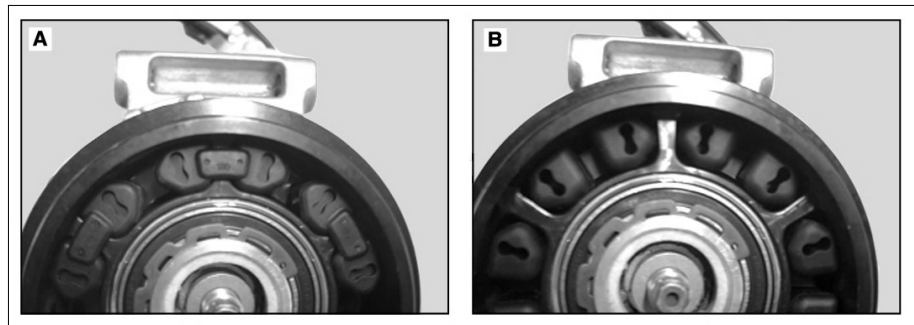
- A Correct
- B Incorrect



P83.55-2142-04







**Picture 2**







- A Correct
- B Incorrect



P83.55-2143-04

	<p><b>Remove</b></p>		
	<p><b>Risk of death</b> caused by vehicle slipping or toppling off of the lifting platform.</p>	<p>Align vehicle between columns of vehicle lift and position four support plates at vehicle lift support points specified by vehicle manufacturer.</p>	<p>AS00.00-Z-0010-01A</p>
	<p><b>Risk of accident</b> caused by vehicle starting off by itself when engine is running. <b>Risk of injury</b> caused by contusions and burns during starting procedure or when working near the engine as it is running</p>	<p>Secure vehicle to prevent it from moving by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.</p>	<p>AS00.00-Z-0005-01A</p>
		<p><b>i</b> Do not remove refrigerant compressor, do not open or evacuate refrigerant circuit. Remove/install the belt pulley when the engine is cold.</p>	
<p>1</p>	<p>Remove poly-V belt</p>		

		<p>Engine 112.912 in model 203.061/ 261, 209.361/ 461</p> <p>Engine 112.946 in model 203.064/ 264/ 764</p> <p>Engine 113.968 in model 209.375/ 475</p> <p>Engine 112.913 in model 211.061/ 261</p> <p>Engine 112.949 in model 211.065/ 265</p> <p>Engine 113.967 in model 211.070/ 270</p> <p>Engine 113.987 in model 209.376/ 476</p> <p>Engine 112.955 in model 209.365/ 465</p> <p>Engine 112.916 in model 203.081/ 281</p> <p>Engine 112.953 in model 203.084/ 284</p> <p>Engine 112.917 in model 211.080/ 280</p> <p>Engine 112.954 in model 211.082/ 282</p> <p>Engine 113.969 in model 211.083/ 283</p> <p>Engine 113.988 in model 203.076/ 276</p> <p>Engine 113.989 in model 171.473</p> <p>Engine 112 in model 163</p> <p>Engine 113 (except 113.981/ 965) in model 163</p> <p>Engine 112 in model 220.063/ 065/ 067/ 087/ 163/ 165/ 167/ 187</p> <p>Engine 113 in model 215.373/ 375</p> <p>Engine 113 in model 220.070/ 073/ 075/ 083/ 084/ 170/ 173/ 175/ 183/ 184/ 875</p> <p>Engine 113.981 in model 163.174</p> <p>Engine 113.965 in model 163.175</p> <p>Engine 113.963 in model 230.475</p> <p>Engine 113.992 in model 230.474</p> <p>Engine 113.991 in model 215.374, 220.074/ 174</p> <p>Engine 113.995 in model 230.472</p> <p>Engine 272, 273 in model 230</p> <p>Engine 112.961 in model 203.065/ 265</p> <p>Engine 113.964 in model 164.175</p> <p>Engine 113.971 in model 251.075/ 175</p> <p>Engine 113.990 in model 211.076 /276</p> <p>Engine 113.967 in model 219.375</p> <p>Engine 113.990 in model 219.376</p> <p>Engine 272.920 in model 203.052/ 252/ 752</p> <p>Engine 272.940 in model 203.054/ 254, 209.354/ 454</p> <p>Engine 272.960 in model 203.056/ 256/ 756, 209.356/ 456</p> <p>Engine 272.970 in model 203.087/ 287</p> <p>Engine 272.941 in model 203.092/ 292</p> <p>Engine 273 in model 209</p> <p>Engine 271.940 in model 203.042/ 242/ 742, 209.342/ 442</p> <p>Engine 271.941 in model 211.042/ 242</p> <p>Engine 271.946 in model 203.046/ 246/ 746</p> <p>Engine 271.948 in model 203.040/ 240/ 740</p> <p>Engine 271.942 in model 203.043/ 243/ 743, 209.343</p> <p>Engine 271.921 in model 203.730</p> <p>Engine 271.955 in model 209.341/ 441</p> <p>Engine 271.956 in model 211.041/ 241</p> <p>Engine 271.957 in model 203.741</p> <p>Engine 271 in model 171</p> <p>Engine 272, 273 in model 164, 251</p> <p>Engine 272, 273 in model 221</p> <p>Engine 273 in model 216</p> <p>Engine 272, 273 in model 211, 219</p> <p>Engine 272 in model 171</p>	<p>AR13.22-P-1202PV</p> <p>AR13.22-P-1202B</p> <p>AR13.22-P-1202BA</p> <p>AR13.22-P-1202R</p> <p>AR13.22-P-1202RX</p> <p>AR13.22-P-1202SVK</p> <p>AR13.22-P-1202GZ</p> <p>AR13.22-P-1202RT</p> <p>AR13.22-P-1202RV</p> <p>AR13.22-P-1202TY</p> <p>AR13.22-P-1202TZ</p> <p>AR13.22-P-1202QB</p> <p>AR13.22-P-1202QK</p> <p>AR13.22-P-1202V</p> <p>AR13.20-P-0001GZA</p> <p>AR13.20-P-0001SX</p> <p>AR13.20-P-0001TS</p> <p>AR13.22-P-1202VA</p>
2	Remove retaining ring (6) of belt pulley (2)	<p> With plastic belt pulleys, it is possible to insert a screwdriver under the retaining ring and to push forward. The belt pulley then breaks out of the groove and the retaining ring can be removed.</p>	
3	Loosen hub (1)	<p> Turn hub (1) counterclockwise.</p> <p> Use socket for corresponding refrigerant compressor shaft.</p> <p></p> <p></p>	<p>*112589020900</p> <p>*112589074000</p>
4	Remove hub (1)		
5	Remove retaining ring (4) on refrigerant compressor shaft bearing		
6	Remove belt pulley (2)	<p> Do not apply pulling force in an axial direction to the refrigerant compressor shaft.</p>	

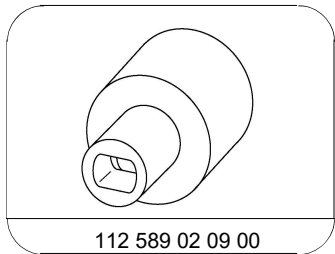
	<b>Install</b>		
7	Place belt pulley (2) from parts kit on refrigerant compressor shaft	 Check the number of grooves and the diameter of the belt pulley (2).	
8	Install retaining ring (4) on refrigerant compressor shaft bearing	 Install retaining ring (4) with flat side facing refrigerant compressor. Make sure that the retaining ring (4) is seated correctly (engaged).	
9	Attach washer (3)	 The washer (3) must lie flat against the base.	
10	Insert damper rubbers (5)	 Make sure that it is positioned correctly (picture 1, A). Position the damper rubbers (5) on the web and not in the cavities (picture 2, A).	
11	Insert hub (1)	 Make sure that it is fitted at the correct position. The driver must engage in the cavities. Tighten clockwise until finger-tight; the hub (1) tightens automatically when in operation.	
12	Install retaining ring (6) of belt pulley (2)		
13	Install new poly-V belt	<p>Engine 112.912 in model 203.061/ 261, 209.361/ 461</p> <p>Engine 112.946 in model 203.064/ 264/ 764</p> <p>Engine 113.968 in model 209.375/ 475</p> <p>Engine 112.913 in model 211.061/ 261</p> <p>Engine 112.949 in model 211.065/ 265</p> <p>Engine 113.967 in model 211.070/ 270</p> <p>Engine 113.987 in model 209.376/ 476</p> <p>Engine 112.955 in model 209.365/ 465</p> <p>Engine 112.916 in model 203.081/ 281</p> <p>Engine 112.953 in model 203.084/ 284</p> <p>Engine 112.917 in model 211.080/ 280</p> <p>Engine 112.954 in model 211.082/ 282</p> <p>Engine 113.969 in model 211.083/ 283</p> <p>Engine 113.988 in model 203.076/ 276</p> <p>Engine 113.989 in model 171.473</p> <p>Engine 112 in model 163</p> <p>Engine 113 (except 113.981/ 965) in model 163</p> <p>Engine 112 in model 220.063/ 065/ 067/ 087/ 163/ 165/ 167/ 187</p> <p>Engine 113 in model 215.373/ 375</p> <p>Engine 113 in model 220.070/ 073/ 075/ 083/ 084/ 170/ 173/ 175/ 183/ 184/ 875</p> <p>Engine 113.981 in model 163.174</p> <p>Engine 113.965 in model 163.175</p> <p>Engine 113.963 in model 230.475</p> <p>Engine 113.992 in model 230.474</p> <p>Engine 113.991 in model 215.374, 220.074/ 174</p> <p>Engine 113.995 in model 230.472</p> <p>Engine 272, 273 in model 230</p> <p>Engine 112.961 in model 203.065/ 265</p> <p>Engine 113.964 in model 164.175</p> <p>Engine 113.971 in model 251.075/ 175</p> <p>Engine 113.990 in model 211.076 /276</p> <p>Engine 113.967 in model 219.375</p> <p>Engine 113.990 in model 219.376</p> <p>Engine 272.920 in model 203.052/ 252/ 752</p> <p>Engine 272.940 in model 203.054/ 254, 209.354/ 454</p> <p>Engine 272.960 in model 203.056/ 256/ 756, 209.356/ 456</p> <p>Engine 272.970 in model 203.087/ 287</p> <p>Engine 272.941 in model 203.092/ 292</p> <p>Engine 273 in model 209</p> <p>Engine 271.940 in model 203.042/ 242/ 742, 209.342/ 442</p> <p>Engine 271.941 in model 211.042/ 242</p> <p>Engine 271.946 in model 203.046/ 246/ 746</p> <p>Engine 271.948 in model 203.040/ 240/ 740</p> <p>Engine 271.942 in model 203.043/ 243/ 743, 209.343</p> <p>Engine 271.921 in model 203.730</p> <p>Engine 271.955 in model 209.341/ 441</p> <p>Engine 271.956 in model 211.041/ 241</p> <p>Engine 271.957 in model 203.741</p> <p>Engine 271 in model 171</p>	<p>AR13.22-P-1202PV</p> <p>AR13.22-P-1202B</p> <p>AR13.22-P-1202BA</p> <p>AR13.22-P-1202R</p> <p>AR13.22-P-1202RX</p> <p>AR13.22-P-1202SVK</p> <p>AR13.22-P-1202GZ</p> <p>AR13.22-P-1202RT</p> <p>AR13.22-P-1202RV</p> <p>AR13.22-P-1202TY</p> <p>AR13.22-P-1202TZ</p> <p>AR13.22-P-1202QB</p> <p>AR13.22-P-1202QK</p> <p>AR13.22-P-1202V</p>

Engine 272, 273 in model 221  
Engine 273 in model 216  
Engine 272, 273 in model 211, 219  
Engine 272 in model 171

AR13.20-P-0001SX

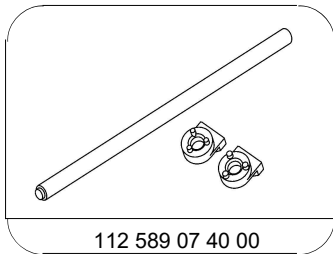
AR13.20-P-0001TS

AR13.22-P-1202VA



112 589 02 09 00

Wrench socket



112 589 07 40 00

Counterholder