



13 Belt drive

Removal and installation of V-belt Job No. 13-340

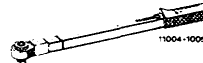
13-340 Removal and installation of V-belt

V-belt dimensions

Version	A Basic drive	B with power steering pump	C with power steering pump and refrigerant compressor
Length (mm)	1015	2050	2120
Part number	0079979092	601 9970292	0079978492
Belt tension (test value KG scale on measuring instrument)			
Tightening torque			Nm
Screw for fan			25

Special tools

Torque wrench with plug-in ratchet,
1/2" square, 25-1 30 Nm



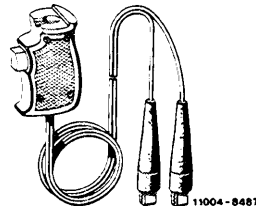
001 58967 2100

Measuring instrument (Krikrit)



001 589 69 21 00

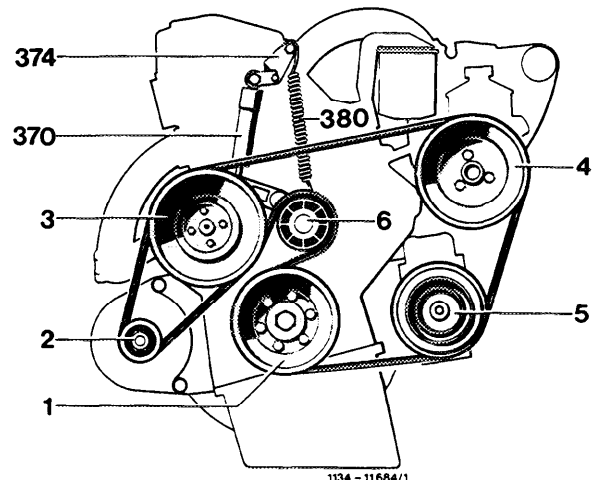
Contact handle for rotating engine
(component of compression pressure
recorder 001 589 46 21 00)



001 589 46 21 08

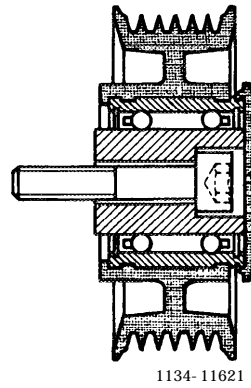
Note

The V-belt is tensioned by means of a draw spring (380) via tensioning roller (6). A shock absorber (370) prevents vibrations in belt drive.

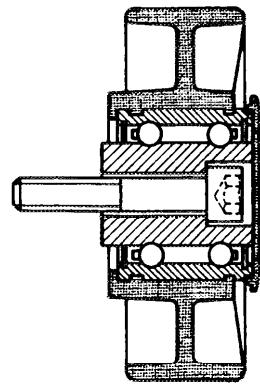


- 1 Crankshaft pulley
- 2 Pulley, alternator
- 3 Pulley, coolant pump
- 4 Pulley, hydraulic oil pump for power steering
- 5 Pulley, refrigerant compressor
- 6 Tensioning roller
- 370 Shock absorber
- 374 Tensioning lever
- 380 Tensioning spring

The tensioning roller for belt drive version A has grooves on circumference in accordance with V-belt. For belt drive versions B and C the circumference of tensioning roller is flat.



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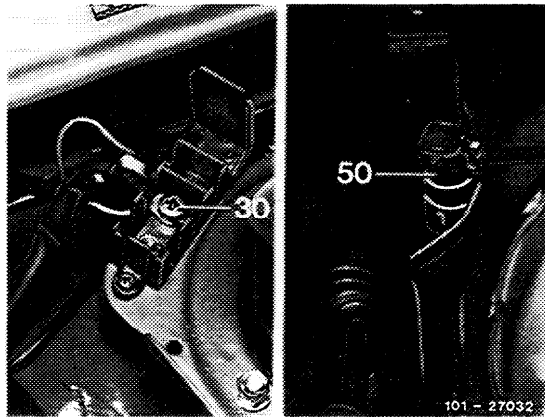
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Checking

Mark belt at a well visible spot with chalk.

Connect contact handle to cable connector (terminal 30) and to coupling (terminal 50) (arrows). Rotate engine step by step while checking belt for damage. Complete inspection when identification shows up again (one rotation of engine).

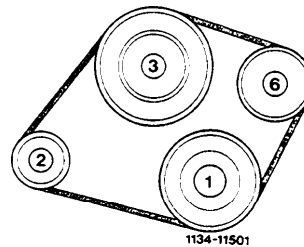
Renew cracked, burnt or worn out belts.



101 - 27032

Version A
(standard version)

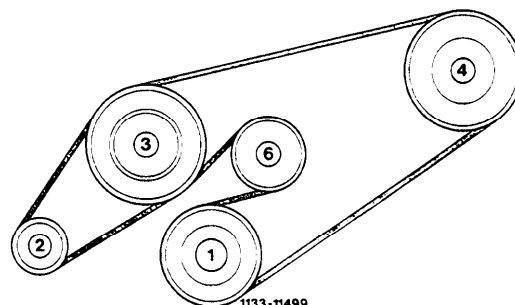
- 1 Crankshaft
- 2 Alternator
- 3 Coolant pump
- 6 Tensioning roller



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Version B

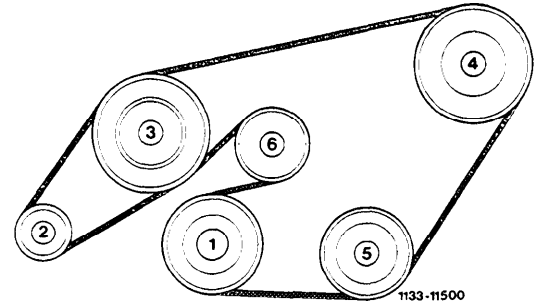
- 1 Crankshaft
- 2 Alternator
- 3 Coolant pump
- 4 Power steering pump
- 6 Tensioning roller



1133-11499

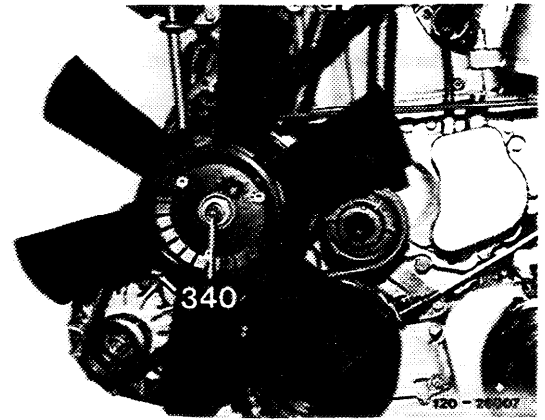
Version C

- 1 Crankshaft
- 2 Alternator
- 3 Coolant pump
- 4 Power steering pump
- 5 Refrigerant compressor
- 6 Tensioning roller



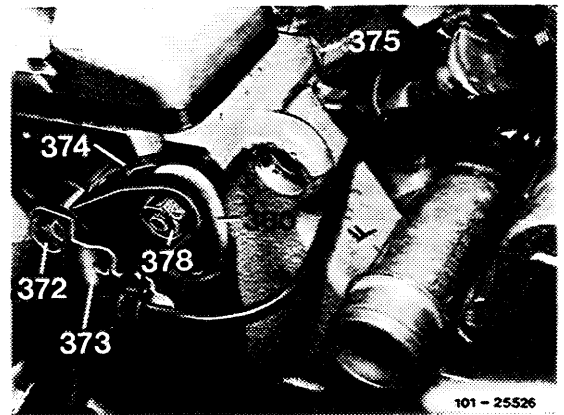
Removal

- 1 Disconnect vent line on fan cover.
- 2 Disengage fan cover and place over fan.
- 3 Unscrew center bolt (340) for fan and remove fan.
- 4 Remove fan cover.



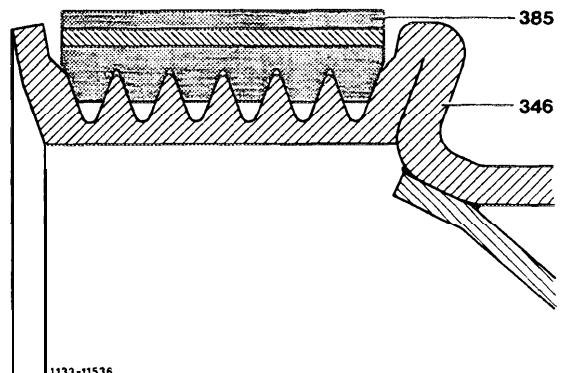
- 5 Slacken V-belt and remove. For this purpose, unscrew collar nut (378). Insert a mandrel (12-l 3 mm dia., approx. 300 mm long) or wheel nut wrench from vehicle tools into spring tensioning lever (374) and relieve hex. head screw (375) opposite to force of draw spring (380) to the extent that the screw can be pushed back in direction of intake manifold.

Release spring tensioning lever, push back tensioning roller and remove V-belt.



Installation

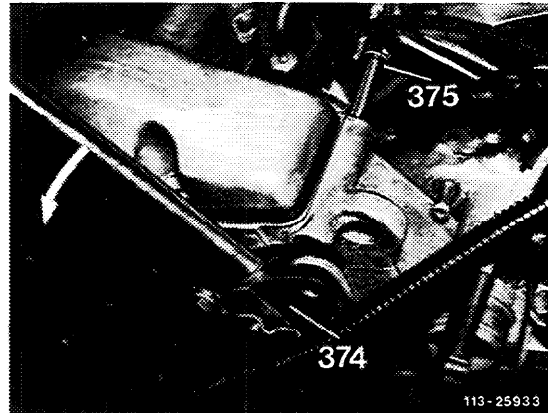
- 6 Check pulley profiles and tensioning device for damage and contamination (e. g. worn out bearing points of tensioning device, dents in pulleys etc.) and renew, if required.



- 346 Pulley
- 385 V-belt

7 Mount V-belt. Start at tensioning roller and finish at coolant pump. Do not use belt wax or similar products.

Swivel spring tensioning lever (374) by means of a mandrel against force of draw spring (380) to the left until the screw (375) can be slipped through spring tensioning lever and cylinder head. Position collar nut (378) and tighten.



8 Insert fan cover prior to mounting fan.

Tighten fan fastening screw to 25 Nm.

9 Mount fan cover.

10 Attach vent line.

11 Check belt alignment and tension.

Note: Measure tension with Kriket instrument 001 589 69 21 00. Test value (KG scale on measuring instrument).