

## 03-3420 Removing and installing belt pulley/vibration damper and hub

### Preceding work:

Bottom engine compartment panel removed (Maintenance Manual 2, op. item 6190).

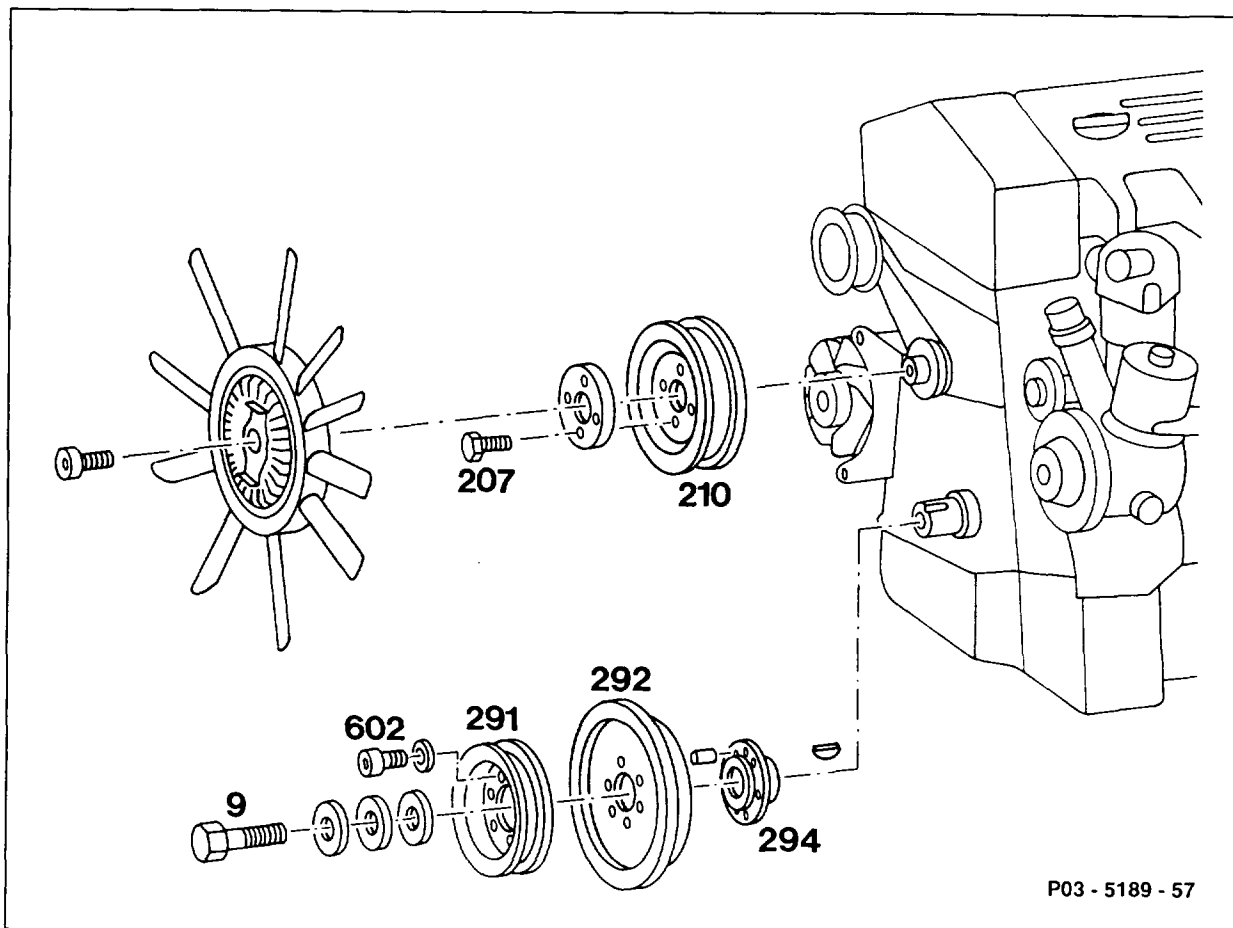
Models 107, 124, 126, 201: radiator removed (20-4200).

Model 129: fan shroud removed (20-3400).

Viscous fan clutch removed (20-3120).

Operation no. of operation texts and work units or standard texts and flat rates

03-1320 - 03-1911



Guard plate at radiator or condensor .....	attach (step 1).
Crankshaft cylinder 1 .....	rotate to TDC (step 2).
Bolts (207) belt pulley (210) fan .....	slacken, tighten (10 Nm) (step 3).
Poly-V-belt .....	remove, install (13-3420).
Belt pulley (210) of fan .....	remove, install (step 5).
Holding lock for crankshaft/ring gear .....	remove, install (03-5000).
Belt pulley (291) and vibration damper (292) .....	remove, install (step 7).

Bolt (9) of hub ..... unscrew, screw on 300 Nm (step 8).  
 Hub (294) with puller 103 589 00 33 00 ..... pull off, press on (step 9).

### Tightening torques in Nm

Bolts of vibration damper to hub	25
Bolt of hub to crankshaft	300

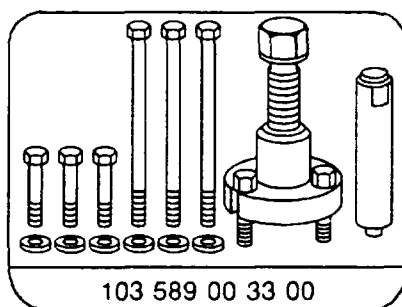
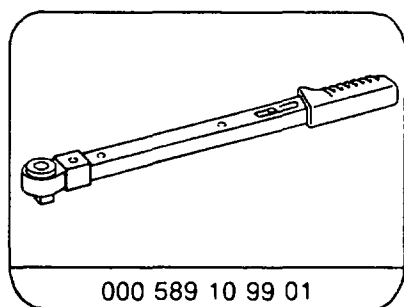
### Modified washers for vibration damper and belt pulley at hub

Harder washers are used to achieve greater security against bolts slackening.

### Production breakpoint: 05/1985

Model	Engine	Engine end no.	
		manual transmission	automatic transmission
124.030	103.980	000758	003040

### Special tools



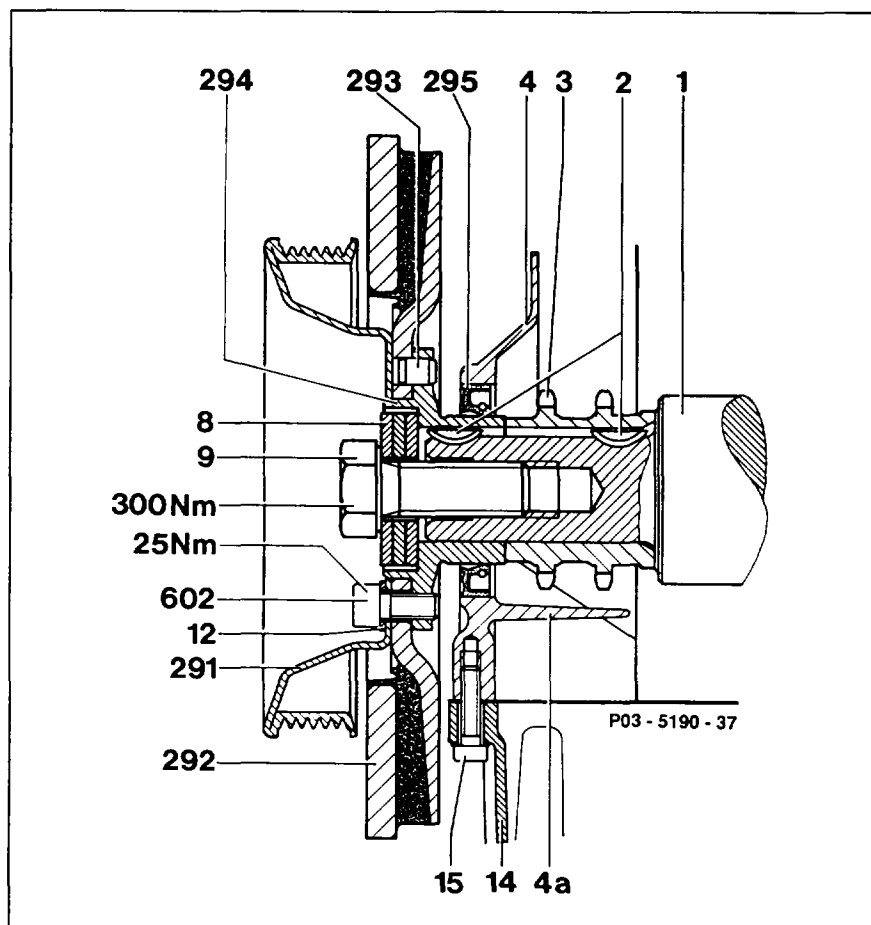
## Shop-made tool

Guard plate for radiator/condensor

Dimensions: approx. 680 × 480 × 1

### Note

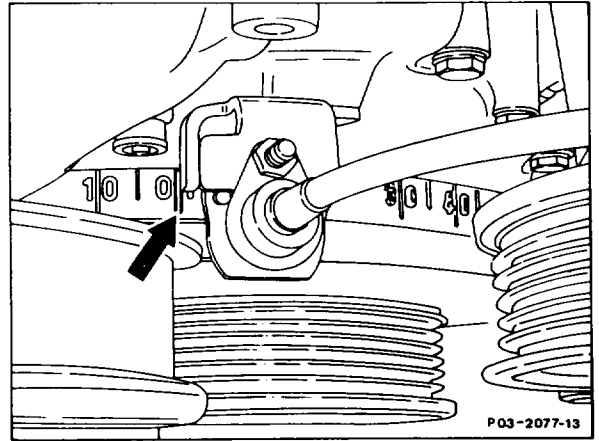
Belt pulley, vibration damper and hub can be replaced without balancing.



1	Crankshaft	14	Oil sump
2	Woodruff key	15	Bolt
3	Crankshaft gear	291	Belt pulley
4	Timing case cover	292	Vibration damper
4a	Timing chain lock	293	Straight pin
8	Dished springs (3 ea.)	294	Hub
9	M18 × 1.5 × 45 bolt	295	Radial seal
12	8.4 washer	602	M8 × 18 bolt

1 Attach guard plate to radiator or condenser of air conditioner.

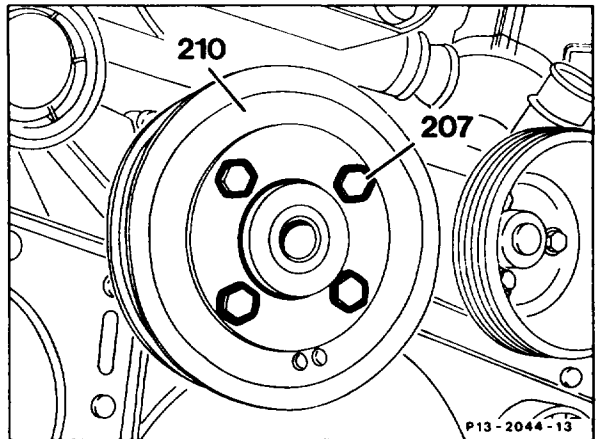
2 Rotate crankshaft cylinder 1 to TDC (arrow) so that the Woodruff key in the crankshaft is facing up vertically.



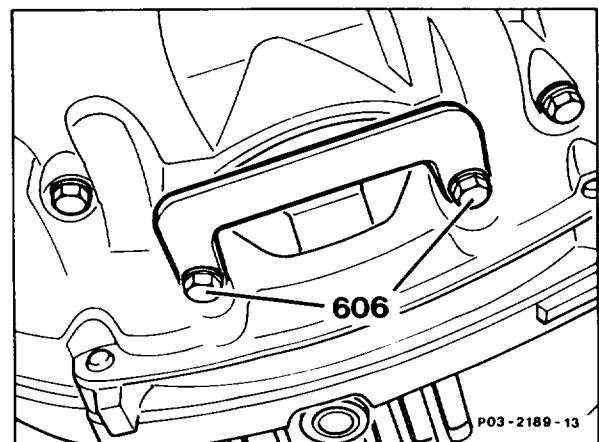
3 Slacken bolts (207) of belt pulley (210) of viscous fan clutch.  
Tightening torque 10 Nm.

4 Remove poly-V-belt (13-3420).

5 Unscrew belt pulley (210) of viscous fan clutch and remove.



6 Install holding lock for crankshaft/ring gear (30-5000).



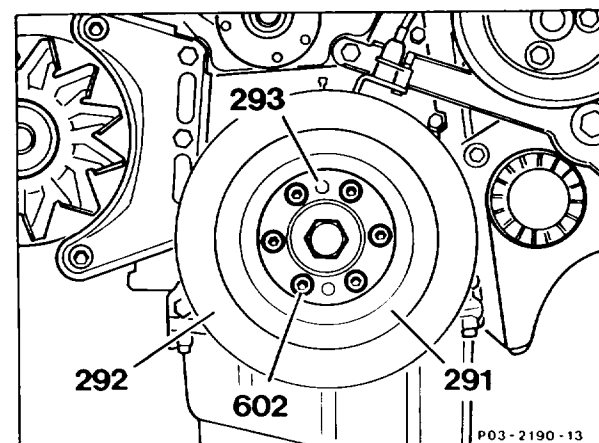
7 Unscrew bolts (602), take off belt pulley (291) and vibration damper (292).

#### Installation note

The vibration damper (292) is fixed in place with a dowel pin (293).

Install bolts (602) with washers.

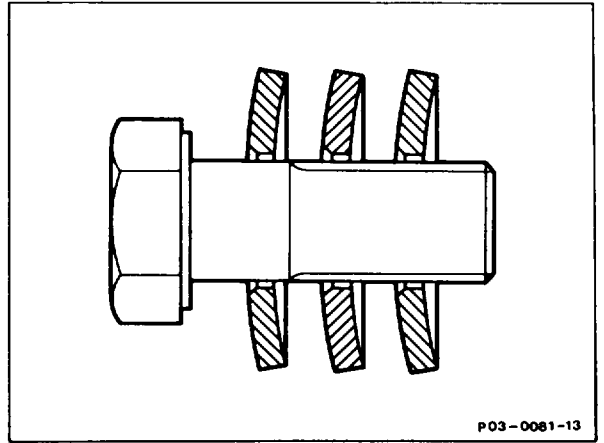
Tightening torque 25 Nm.



8 Unscrew bolt of hub with 3 dished springs.

**Installation note**

Oil thread of bolt and dished springs. Fit on dished springs with curved side facing bolt head. Tightening torque 300 Nm.



9 Remove hub (294) with puller 103 589 00 33 00.

**Installation note**

Heat hub (294) to approx. 50 °C so that it can easily be pushed onto the crankshaft. When pushing on, turn to determine whether the groove in the hub (294) is aligned with the Woodruff key in the crankshaft.

10 Install in the reverse order.

