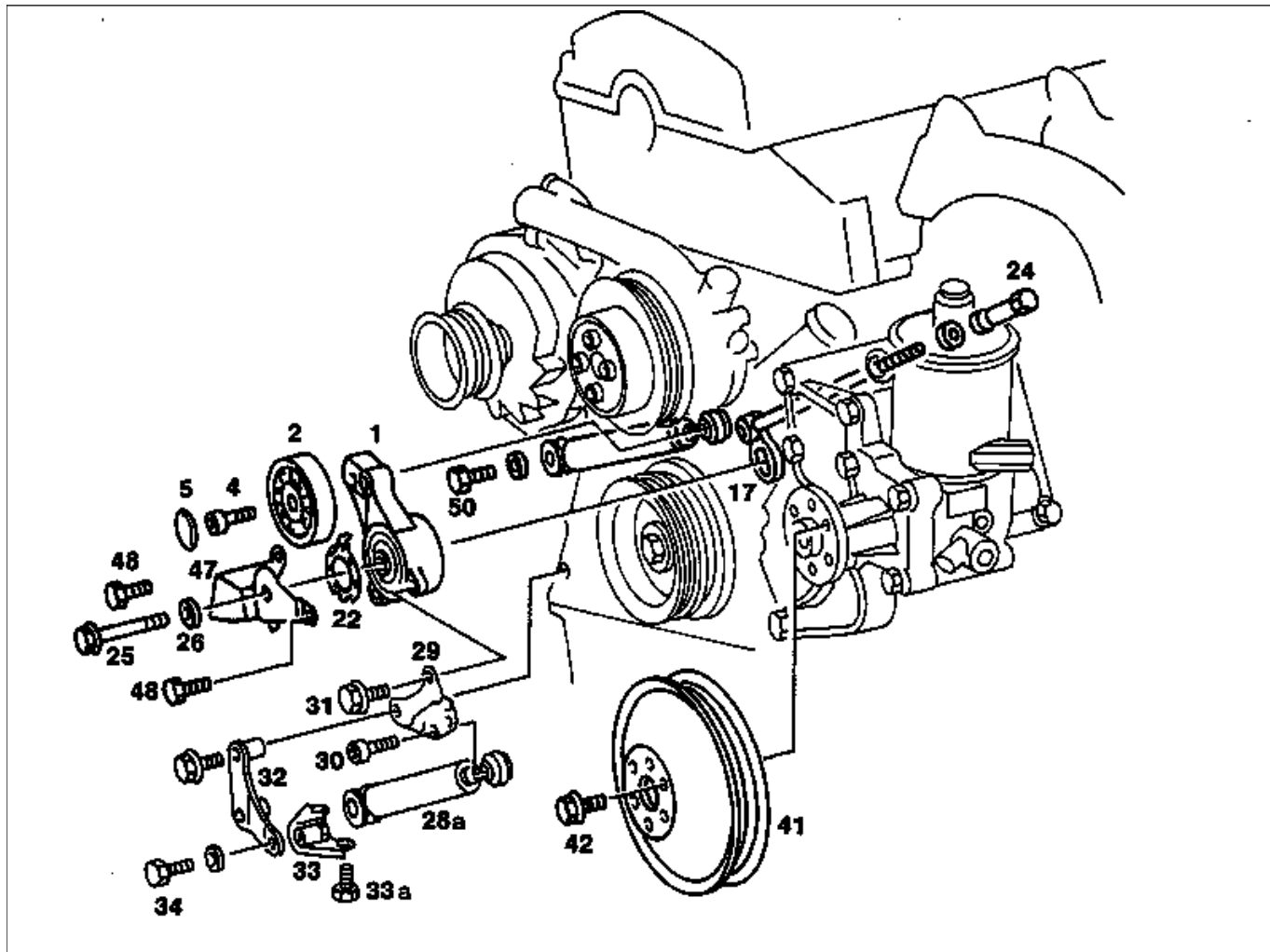


13-345 Removing and installing V-ribbed belt tensioning fixture

Preceding work:
V-ribbed belt removed (13-342).

Operation No. of operation texts and operation values or
standard texts and flat rates
13-3200



P13-5132-57

Without shock absorber

- Adjusting screw (25)..... unscrew, screw on, remove, insert tensioning element (1) (step 1).
- Idler pulley (2)..... unbolt, bolt up, to do this remove, put on cover (5), 25 Nm.

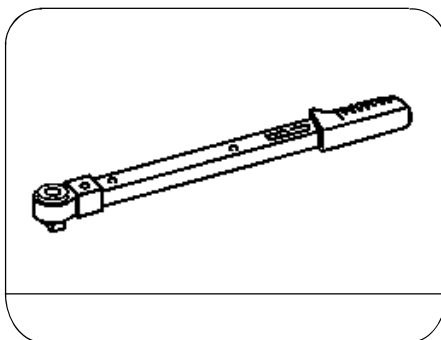
With shock absorber strut of lower damping position

- Shock absorber (28a)..... unbolt, bolt up, together with the bracket (29). Bolts (31 and 34), 25 Nm (step 3).
- Bolt (25)..... unscrew, screw on, remove, insert tensioning element (1).

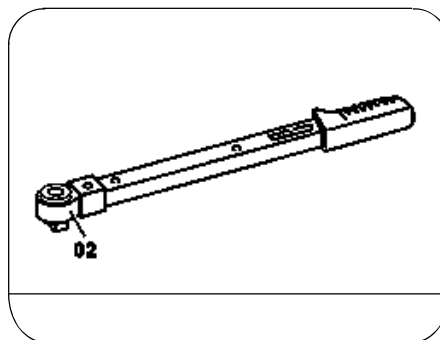
With shock absorber strut of upper damping position

Pulley (41).....	unbolt, bolt up, 30 Nm (step 6).
Idler pulley (2).....	unbolt, bolt up, 25 Nm.
Shock absorber (28).....	unbolt, bolt up on the tension lever (1) and on the alternator bracket. Special tool 102 589 01 07 00 (steps 8 and 9).
Bracket (47).....	unbolt, bolt up, 25 Nm (steps 10 and 11).
Bolt (25).....	unscrew, screw on, remove, install bracket (47) and tensioning fixture (1), (step 12).

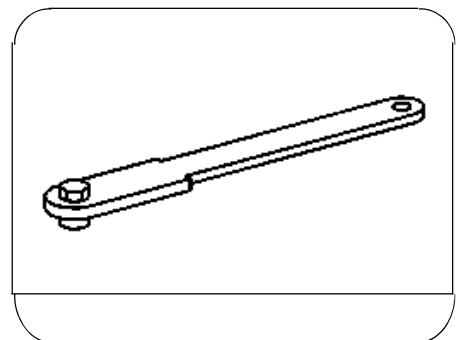
Special tools



001 589 66 21 00



001 589 72 21 00

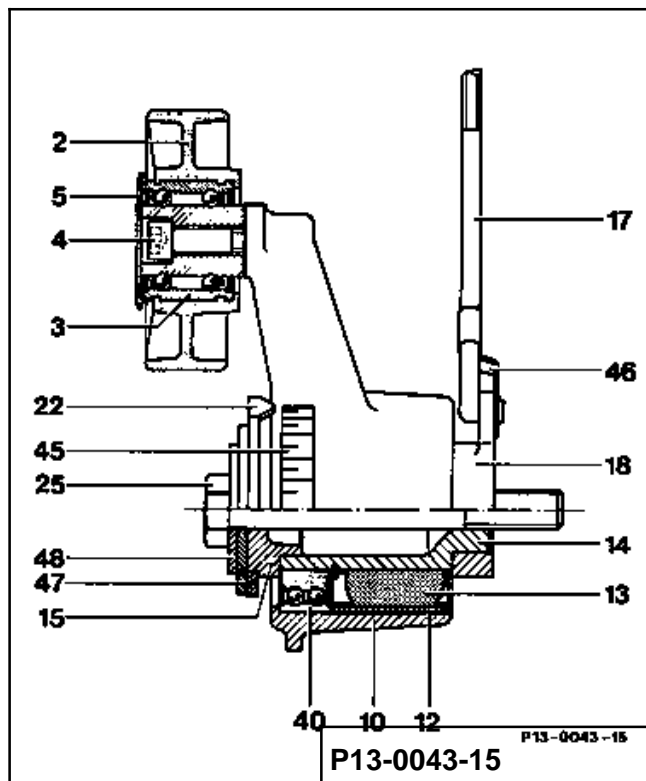


102 589 01 07 00

Note

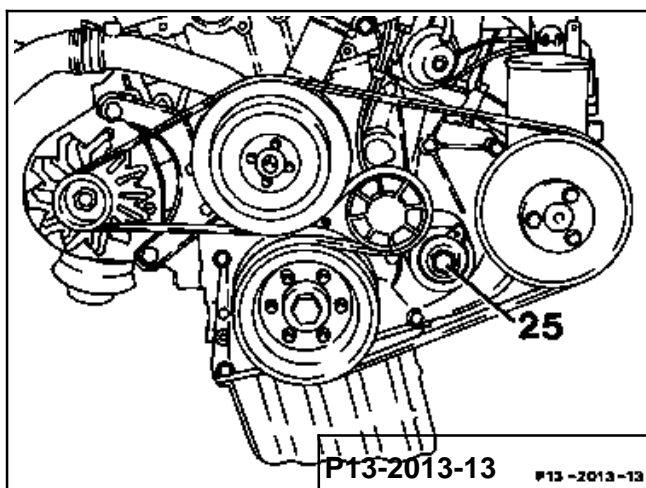
The V-belt is tensioned by an automatic tensioning fixture. Through its construction and operation it guarantees an even belt tension over the whole engine speed range. This is achieved by a rubber element in the tensioning fixture, which has to be pre-tensioned by hand when putting on a new V-ribbed belt.

- 2 Idler pulley
- 3 Deep groove ball bearing
- 4 Hexagon socket screw
- 5 Sealing cover
- 10 Bracket-rubber bearing
- 12 Outer sleeve
- 13 Rubber bearing
- 14 Inner sleeve
- 15 Front sleeve
- 17 Connecting rod
- 18 Lever
- 22 Adjustment pointer
- 25 Bolt M12×115
- 40 Double roller bearing
- 45 Adjustment scale
- 46 Locking device
- 47 Bracket
- 48 Washer

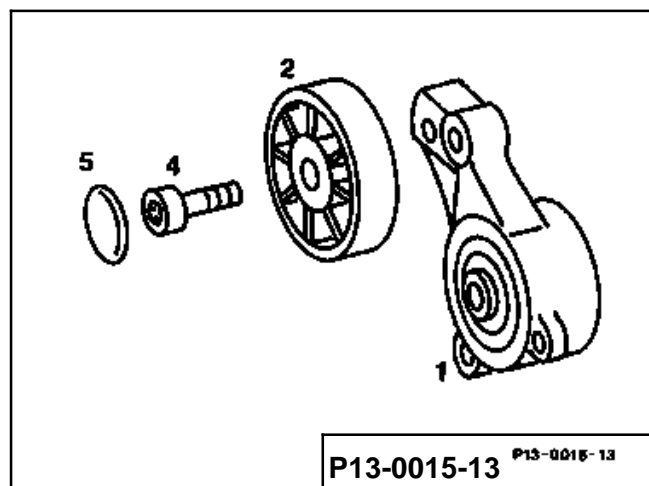


Removing and installing

- 1 On tensioning devices without shock absorber (1st design) unbolt, bolt up fixing bolt (25), remove belt tensioner.



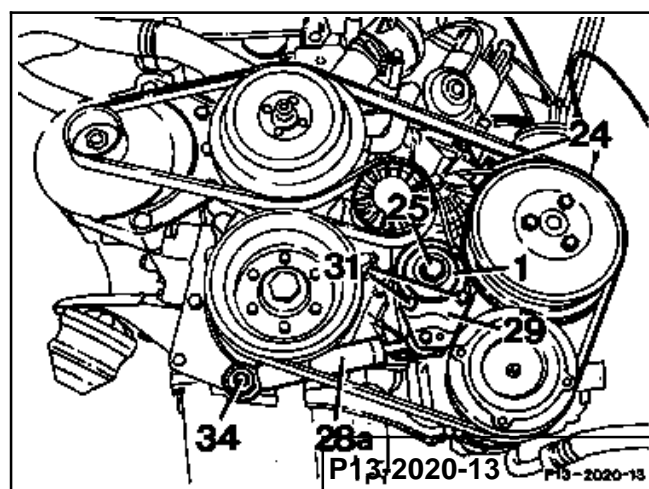
- 2 Remove, press on sealing cover (5). Unbolt, bolt up hexagon socket screw (4) and remove idler pulley, tightening torque 25 Nm.



3 On tensioning devices with lower damping position

Unbolt shock absorber (28a) and bracket (29), to do this unscrew the bolts (31 and 34), tightening torque 25 Nm.

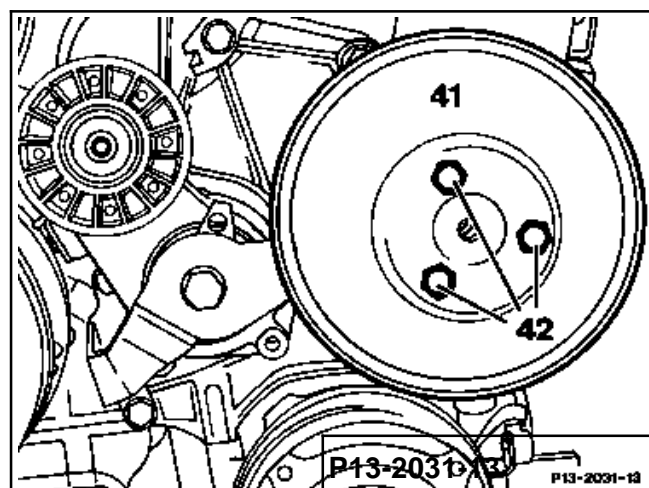
- 4 Unscrew bolt (25) and remove tensioning fixture (1).
- 5 Unbolt idler pulley.



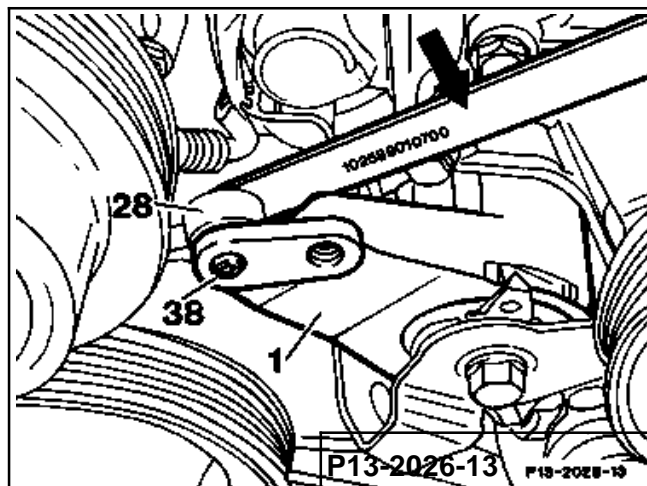
6 On tensioning devices with upper damper position

Unbolt, bolt up pulley (41) for oil pressure pump power steering, tightening torque 30 Nm.

- 7 Unbolt, bolt up, idler pulley (2), tightening torque 25 Nm.



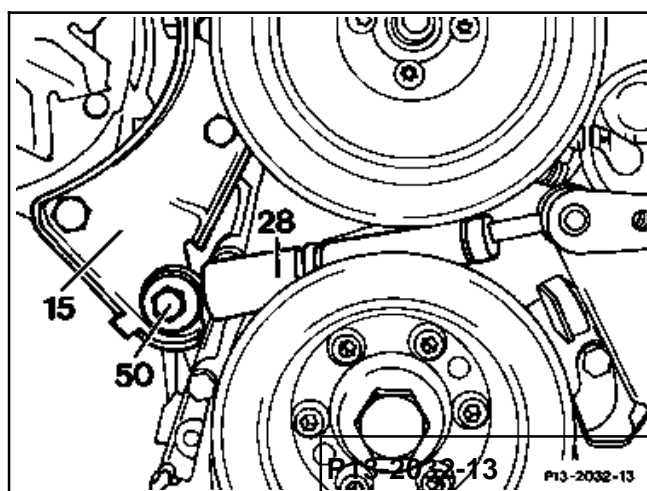
8 Unbolt shock absorber (28) at the tension lever (1), to do this hold in position with screwdriver 102 589 01 07 00 (arrow).



9 Unbolt, bolt up shock absorber (28) at the bracket (15) for alternator. Tightening torque 25 Nm.

Note

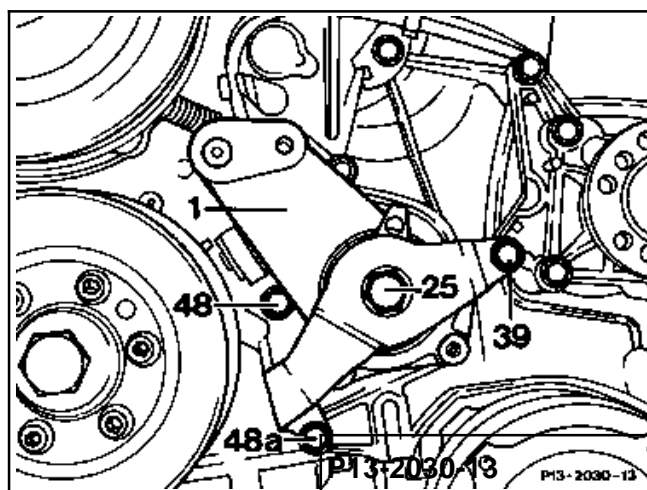
If a washer has been installed between the tensioning element (1) and shock absorber (28), fit this again when assembling.



10 Unbolt nut from bolt (39) behind the power steering pump carrier.

11 Unscrew bolts (48 and 48a).

12 Unscrew bolt (25), remove tensioning device (1) together with the pressed bracket (47).



Note

When installing tensioning fixture (1) put on lever (18) with the connecting rod to suit the tensioning element (arrows). Only fit the fixing bolt (25) loosely, do not tighten up. Tightening torque of M8 bolt 25 Nm.

