

Adjusting data

| V-belts (profile width in mm) | New V-belts (KG scale on measuring instrument) | Used V-belts (KG scale on measuring instrument) |
|----------------------------------|---|--|
| 9.5 | 30 | 20–25 |
| 12.5 | 50 | 40–45 |

Conventional tool

Measuring instrument (Krikrit)

e.g. made by Gates GmbH
Gravener Straße 191–193, D–4018 Langenfeld 2

e.g. made by Gates Rubber Company
999 S. Broadway, USA–80217 Denver/Colorado

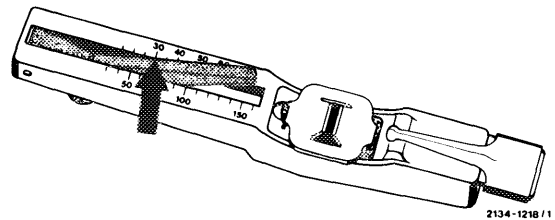
Checking condition of V-belts

Cracked, porous, burnt or worn V-belts should be replaced.

Checking tension

For handling of instrument, refer to operating instructions, renewing and tensioning V-belts (13–340).

The respective adjusting data refer to KG scale of measuring instrument (arrow).



Used V-belts

Check tension of V-belts and compare with values named in table for used V-belts (e.g. V-belt, profile width 9.5 mm = adjusting value 20–25) and retension, if required.

Mounting and tensioning of new V-belts

Perfect mounting of a V-belt requires loosening of respective auxiliary unit or of tensioning device of V-belt to the extent that the belt can be easily mounted. In addition, the running surfaces for the V-belts on pulleys must be free of burr, rust and dirt.

Keep free of oil, grease, chemicals. Do not use belt wax or similar agents. Subsequent optimal adjustment of belt tension (for adjusting values refer to table) serves to prevent complaints such as squeaking V-belts and low life.

In scope of maintenance jobs, mount V-belts prior to engine checkup and tension to value for **new V-belts** named in table (e.g. V-belt, profile width 9.5 mm = adjusting value 30).

If the V-belt tension is checked during final acceptance or following a test drive, the value measured in such a case should be in agreement with the value named in table for **used V-belts** (e.g. V-belt with profile width 9.5 mm = adjusting value 20–25). If less, retension V-belt to this value.

V-belt dimensions and adjusting values

| | | | |
|----------------------------------|--------------------------------------|--------------------------------|-----------------------------|
| V-belts | A Alternator Coolant pump | B Refrigerant compressor | C Power steering pump |
| Dimensions | 9.5 x 1035 ¹⁾ (2 each) | 12.5 x 925 | 12.5 x 1145 |
| Adjusting value | new | 30 | 50 |
| KG scale on measuring instrument | used | 20-25 | 40-45 |

¹⁾ Double V-belts may be installed in pairs and from one manufacturer only.

Conventional tool

e.g. made by Gates GmbH
Gravener Straße 191-193, D-4018 Langenfeld 2

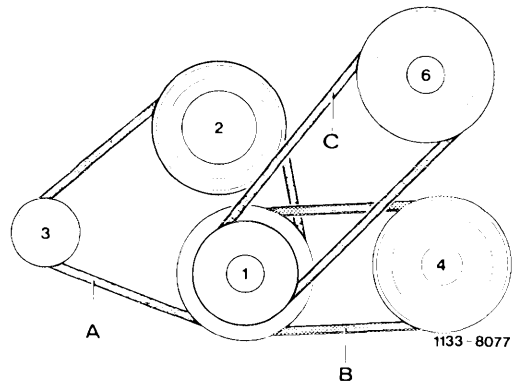
Measuring instrument (Krikrit)

e.g. made by Gates Rubber Company
999 S. Broadway, USA-80217 Denver/Colorado

Note

The Krikrit measuring instrument is recommended for testing V-belt tension.

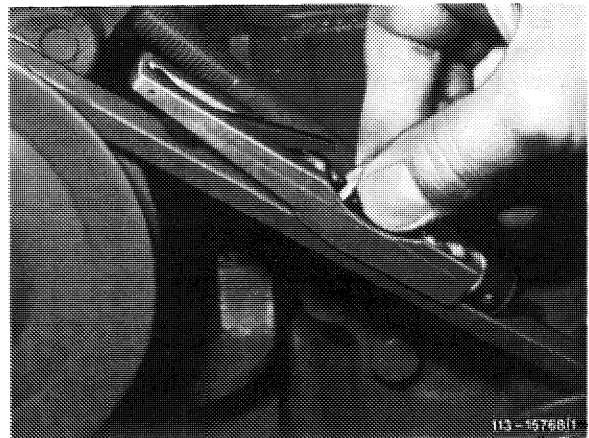
- 1 Crankshaft
- 2 Coolant pump
- 3 Alternator
- 4 Refrigerant compressor
- 6 Power steering pump



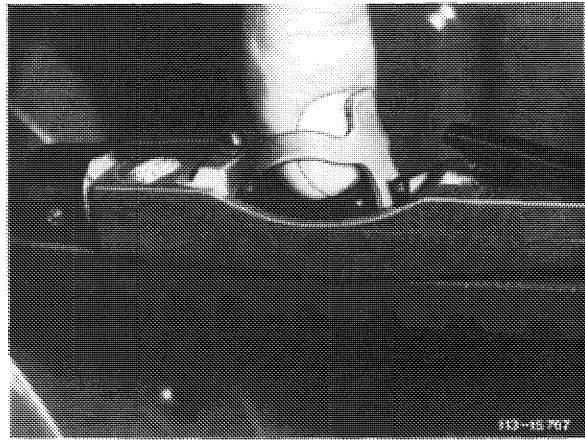
Handling of measuring instrument

For testing V-belt tension the measuring instrument can be handled in various ways:

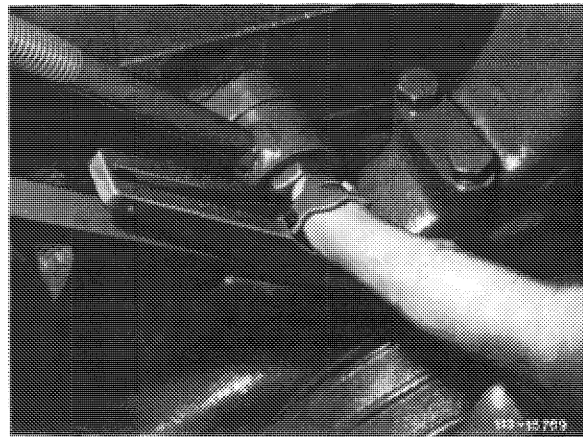
- a) With thumb and forefinger against rubber loop, with the finger tips resting on pushbutton.



b) With forefinger from above in rubber loop.



c) With forefinger laterally between rubber loop and pushbutton.

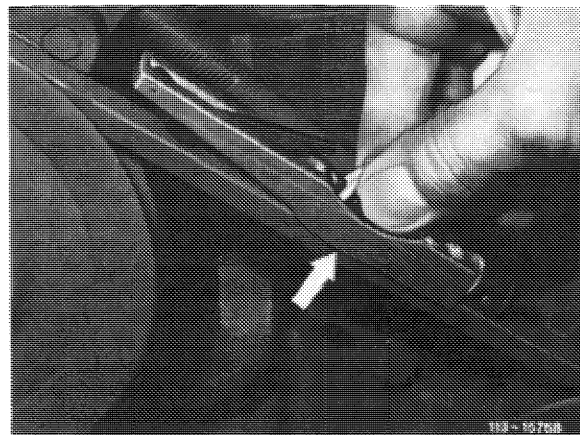


Testing

- 1 Lower indicator arm on measuring instrument.
- 2 Place measuring instrument on V-belt in center between pulleys. The lateral stop of the measuring instrument should rest laterally against V-belt (arrow).

Attention!

On double belt drive, make sure that the measuring instrument rests on one V-belt only.



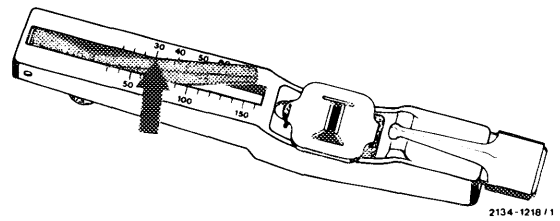
- 3 Exert a uniform, vertical pressure on V-belt upper surface by means of pushbutton, until click spring is audibly (or noticeably) disengaging.

Note: Upon disengagement of click spring, do not continue pushing on measuring instrument, since otherwise a wrong measuring value will be indicated.

4 Carefully lift measuring instrument from V-belt. Avoid knocks against instrument and do not change position of indicator arm.

5 Read tensioning value at point of intersection of indicator arm and upper scale (KG scale, arrow).

The respective adjusting values refer to upper scale of measuring instrument.



Replacement

Check condition of V-belt

Replace cracked, porous, burnt or worn V-belts.

Attention!

If one of the two V-belts of double belt drive for alternator and coolant pump fails due to wear, always replace both V-belts on principle.

Use only V-belts in pairs made by one and the same manufacturer.

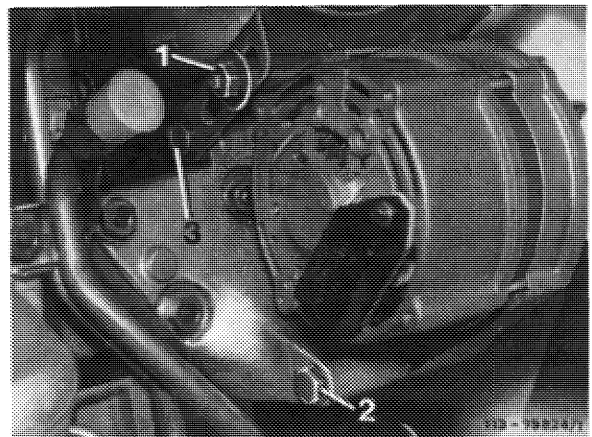
V-belts are available as spare parts in sets only.

- 1 Move tensioning device or units into starting position.
- 2 Mount V-belt without using force.
- 3 Tension V-belt.

Tensioning

V-belt A Alternator – coolant pump

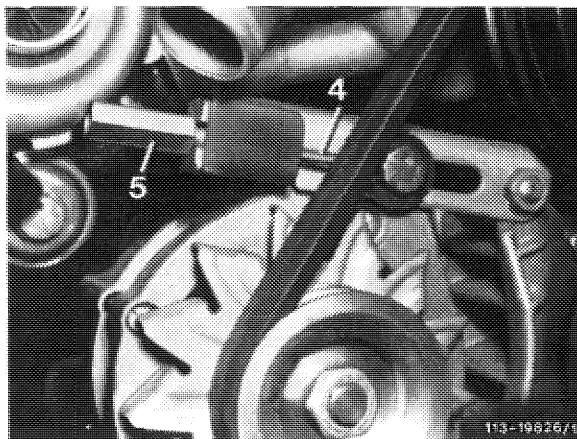
- 1 Loosen nut (1) and screws (2 and 3).



2 Tension V-belt by means of nut (5) of tensioning screw (4).

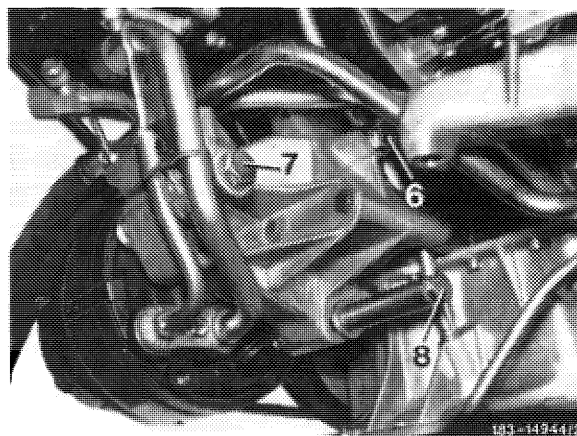
3 Tighten nut (1) and screws (2 and 3).

4 Continue turning nut (5) by approx. 1/4 to 1/2 turn (to tight seat).



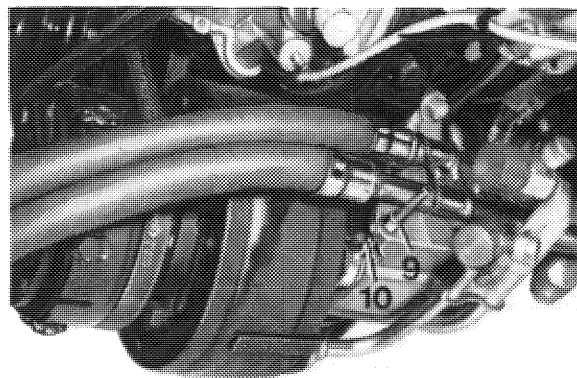
V-belt B Refrigerant compressor

1 Loosen screws (6, 7 and 8).



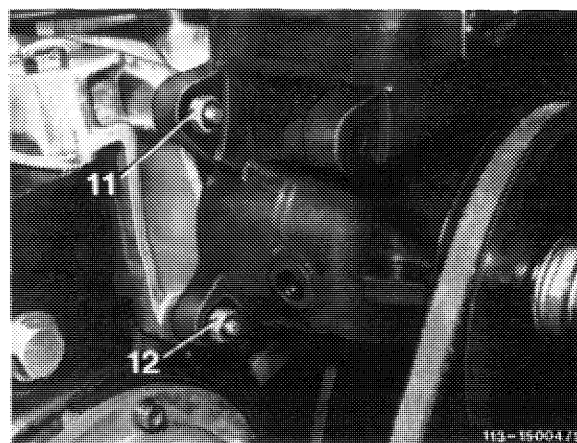
2 Tension V-belt by means of nut (9) of tensioning screw (10).

3 Tighten screws (6, 7 and 8).



V-belt C Power steering pump

1 Loosen nuts (11, 12 and 13).



2 Tension V-belt by means of tensioning screw (14).

3 Tighten nuts (11, 12 and 13).

