

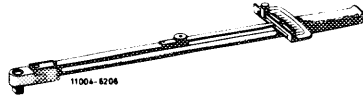
## 03-324 Renewing front crankshaft radial sealing ring

### Tightening torques

	Nm
Bolt M 18 x 1.5 x 45 to crankshaft	270-330
Bolts M 8 x 65	35

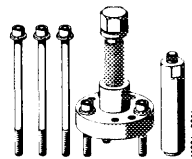
### Special tools

Torque wrench 150-500 Nm,  
3/4" square



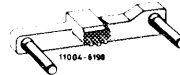
001 589 31 21 00

Puller for balancing disc



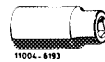
116 589 10 33 00

Detent



110 589 00 40 00

Socket 27 mm, 1/2" square



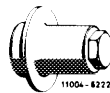
001 589 65 09 00

Puller for spacing ring



616 589 00 33 00

Installer for radial sealing ring



130 589 00 61 00

### Conventional tool

Adaptor 3/4" square socket to 1/2" square head

e.g. made by Hazet, D-5630 Remscheid  
order no. 1058 R-1

### Note

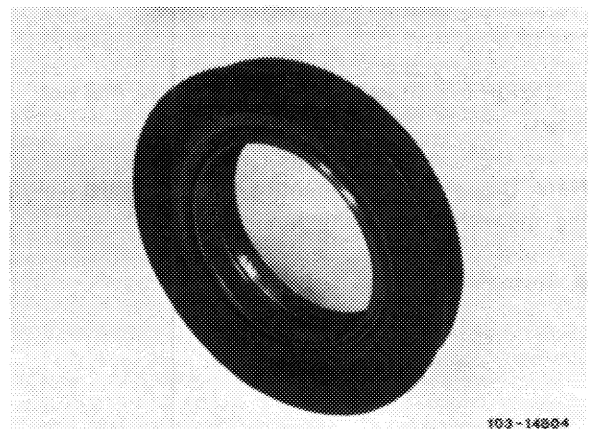
The radial sealing ring is a so-called combination ring with all-around shoulder and contoured outer ring.

The ring consists of two different materials.

Inside: Viton (green)

Outside: Acryl (black)

This radial sealing ring requires no chrome-plated spacing ring.

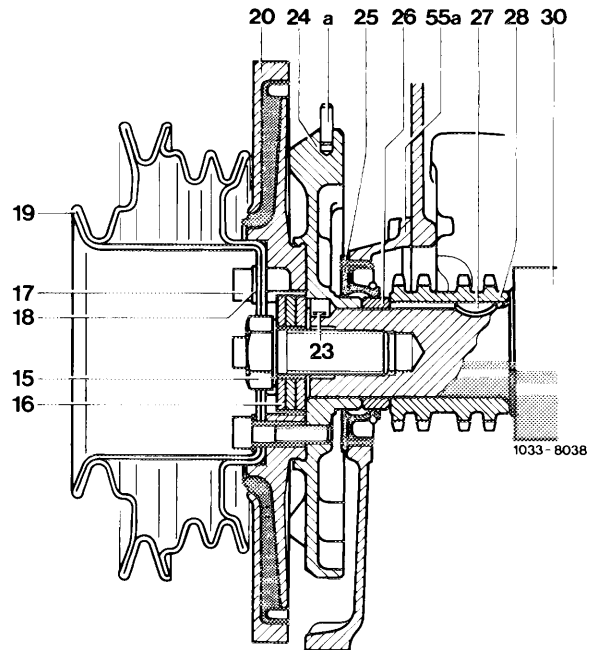


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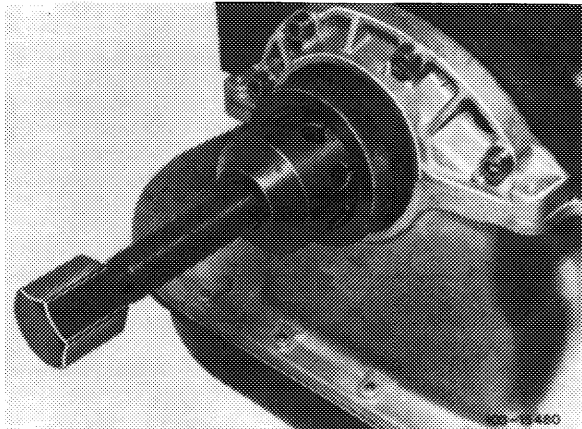
## Removal

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- 1 Remove cooler and fan.
- 2 Remove pulley (19), vibration damper (20) and balancing disc (24) (03-340).
- 3 Push out radial sealing ring by means of a screwdriver. Make sure that crankshaft journal and mounting bore are not damaged.



- 4 Pull off spacing ring with puller, if noticeably worn.



## Installation

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- 5 Deburr mounting bore for radial sealing ring and clean.

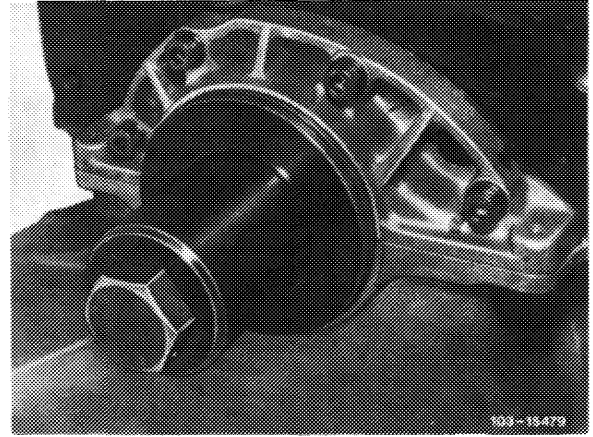
**Note:** Do not provide mounting bore and radial sealing ring with sealing compound.

- 6 Install new spacing ring.

7 Coat new radial sealing ring on sealing lip and in range of dust-sealing lip with grease and insert by means of installer.

**Attention!**

The radial sealing ring should be accurately square in relation to crankshaft journal, since otherwise no perfect sealing will be obtained.



8 Install balancing disc, vibration damper and pulley (03-340).

9 Install fan and cooler.