

GEDORE

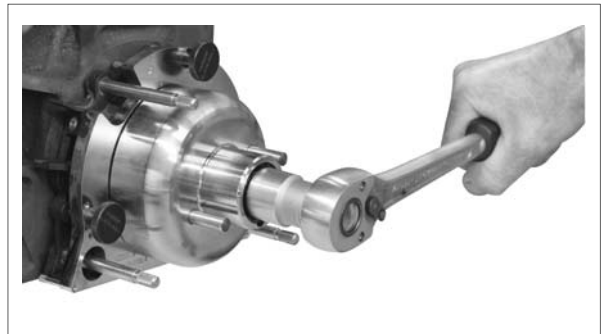
TOOLS FOR LIFE

Mounting Tool

for sealing flange with integrated sender wheel



KL-0178-30 K



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KL-0178-30 K



Fig. 1: Sealing flanges with integrated sender wheel (transport lock at 5'clock position)

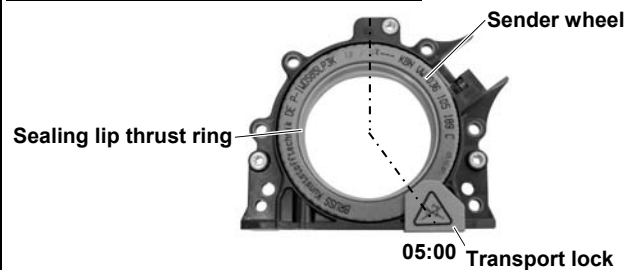
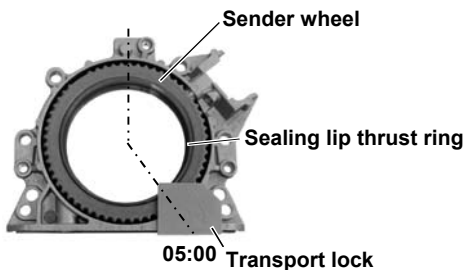
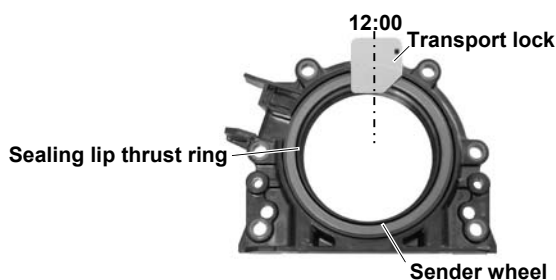
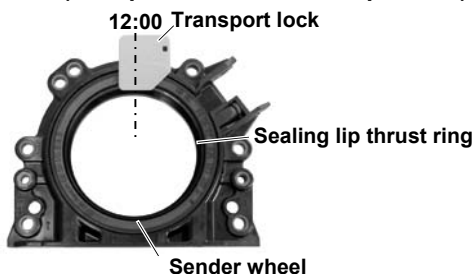


Fig. 2: Sealing flanges with integrated sender wheel (transport lock at 12'clock position)



KL-0178-30 K - Mounting Tool for sealing flange with integrated sender wheel

Suitable for VW-Audi, Seat, Skoda and Mitsubishi petrol and diesel engines e.g. 1.0, 1.4, 1.4 16V, 1.4 FSI, 1.6 16V, 1.6 FSI, 1.9 TDI, 2.0 TDI, 2.0 TDI 16V, 2.0 SDI, 2.0 DI-D at Audi (A2, A3); VW (Polo, Golf IV/V/Plus, Passat); Seat (Arosa, Ibiza, Leon); Skoda (Fabia, Octavia) and Mitsubishi (Grandis, Outlander).

Field of application

Designed for the quick and professional installation of the transmission-sided crankshaft sealing flange with integrated sender wheel.

Advantages

- Substantial time savings

! Specifications and notes

- Any work on vehicles should only be performed by qualified personnel observing and complying with the directions, provisions, and safety regulations issued by the vehicle manufacturer.
- Only the vehicle manufacturer's data apply to all work done on the vehicle.
- All specific vehicle data stated herein are supplied under reserve and without commitment.
- Before putting the tool into operation, visually check and make sure that it is not damaged.

! It is imperative to observe the following points:

- ✔ Before starting work, read the Product Information carefully and make sure you have understood it correctly.
- ✔ Never strike the tool with a hammer!
- ✔ Always keep the tool clean. To lubricate spindles and threads, use Molybdenum Disulphide Paste **KL-0014-0030** only.
- ✔ Use GEDORE Automotive original spare parts only.

Fig. 3: Set Cylinder 1 to TDC.



Application

Mounting a sealing flange with integrated sender wheel.

Note: Application example on the sealing flange with transport lock at 5'clock position.

1. Unscrew spark plug of the 1st cylinder and mount TDC adjusting adaptor **Item 2** with dial gauge **Item 1**. Set crankshaft to TDC of 1st cylinder. (**Fig. 3**)

2. Remove transport lock from the new sealing flange. (The transport lock covers the fixing bore in the sender wheel.)

Note:

- Sealing lip thrust ring must not be taken out of the sealing flange.
- Do not twist sender wheel.

3. Place sealing flange onto a flat surface.

Note:

- Do not twist sender wheel.
- The sealing flange and the sealing lip thrust ring must rest flat on the surface; if necessary, press sealing flange or sealing lip thrust ring down a little. (**Fig. 4**)

4. Prepare pressure plate **Item 3** as displayed in **Fig. 5**. Screw spacer bolts **Item 3b** completely into the pressure plate **Item 3**.

Note: The correct positions of the spacer bolts result from the contour of the sealing flange.

5. Screw setscrew **Item 3** completely into the pressure plate. The position of the setscrew results from the position of the fixing bore in the sender wheel.

Note: The position of the setscrew **Item 3d** for the 12'clock position in the sender wheel is indicated in **Fig. 5**. If the fixing bore in the sender wheel is at 5'clock position, the setscrew **Item 3d** is to be screwed into the corresponding position of the pressure plate **Item 3a**.

6. Place pressure plate **Item 3** on sealing flange and screw the three knurled screws **Item 3c** into the sealing flange hand-tight. (**Fig. 6**)

Note: The setscrew **Item 3d** must latch into the fixing bore of the sender wheel.

7. Clean crankshaft flange. (Oil and grease-free)

Fig. 4: Align sealing flange and sealing lip thrust ring.

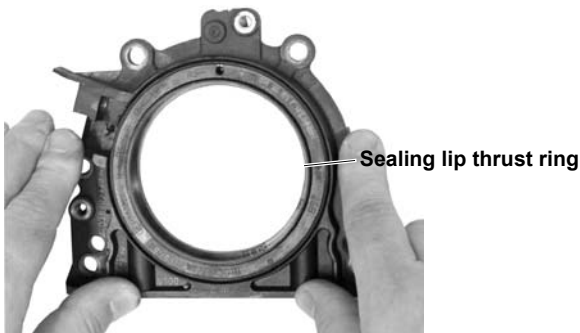


Fig. 5: Screw spacer bolts and setscrew into pressure plate

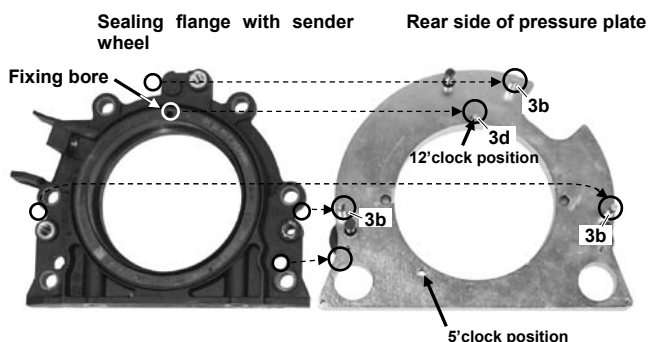


Fig. 6: Screw on pressure plate.

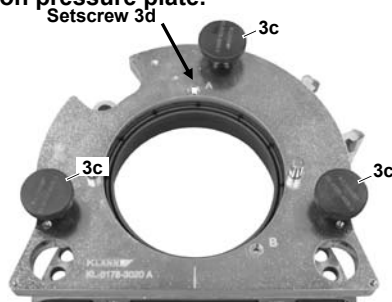


Fig. 7: Screw guide pins into engine block.

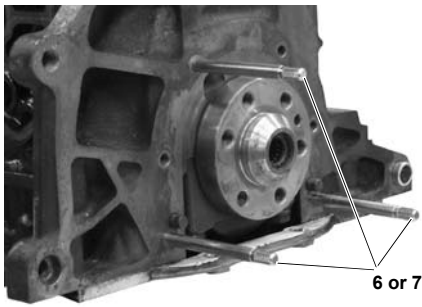


Fig. 8: Place sealing flange with pressure plate on guide pins.

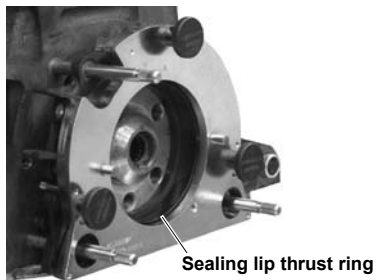


Fig. 9: Position flange on crankshaft.

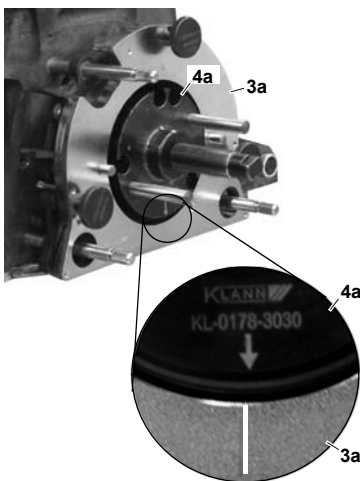
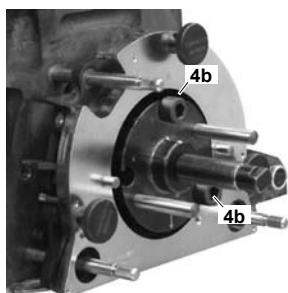


Fig. 10: Fasten flange to crankshaft.



8. Mount matching guide pins **Item 6** (Ø7 mm) or **Item 7** (Ø8 mm) as displayed in **Fig. 7**.

Note: The Ø of the guide pins results from the screw thread Ø in the engine block.

9. Slide pressure plate with sealing flange onto the guide pins only as far as that the sealing flange does **still not** touch the crankshaft. (**Fig. 8**)

Note: The sealing lip thrust ring must not be displaced by the crankshaft stub shaft.

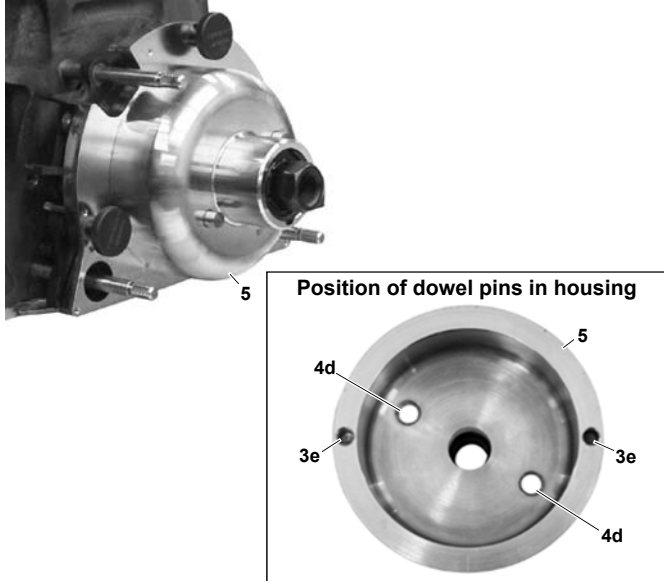
10. Place flange **Item. 4a** onto the crankshaft so that the arrow on the flange **Item 4a** aligns with the line on the pressure plate **Item 3a** (**Fig. 9**)

11. Screw flange **Item 4a** with the hexagon socket screws **Item 4b** onto the crankshaft. (**Fig. 10**)

Note: The positions of the hexagon socket screws **Item 4b** result from the position of the flange **Item 4a** relative to the pressure plate **Item 3a**.

12. Check TDC setting cylinder 1 again and correct if necessary.

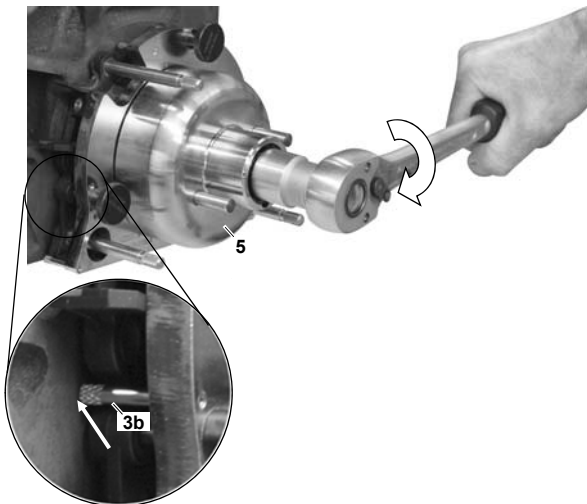
Fig. 11: Place on housing.



13. Place housing **Item 5** onto the flange with spindle **Item 4** and the pressure plate **Item 3** so that all four dowel pins **Item 4d** (flange) and **Item 3e** (pressure plate) latch into the housing **Item 5**. (Fig. 11)

Note: If the housing **Item 5** does not fit onto the dowel pins **Item 4d** (flange) and **Item 3e** (pressure plate), the TDC setting of the crankshaft is wrong and must be corrected.

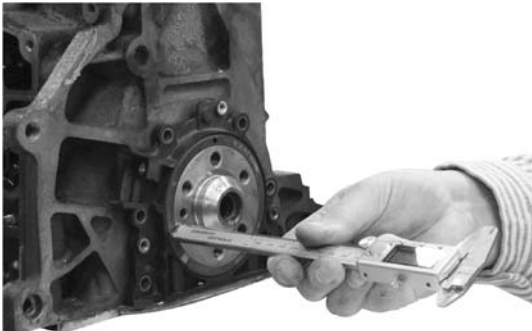
Fig. 12: Screw housing with nut onto spindle.



14. Screw housing **Item 5** onto the flange with spindle **Item 4** by turning the shoulder nut, until the spacer bolts **Item 3b** of the pressure plate **Item 3a** are at the engine block. (Fig. 12)

Note: The sealing flange is still not placed on the engine block and still has approx. 1 mm separation distance.

Fig. 13: Check position of sender wheel.

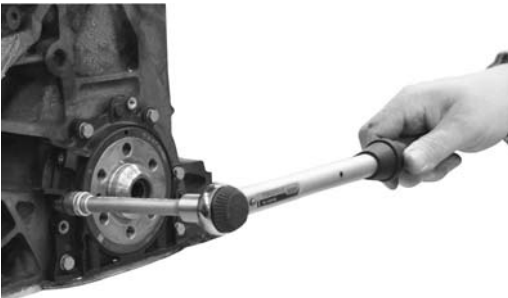


15. Remove tool and sealing lip thrust ring.

16. Check position of the sender wheel according to the manufacturer's specifications and instructions. (Fig. 13)

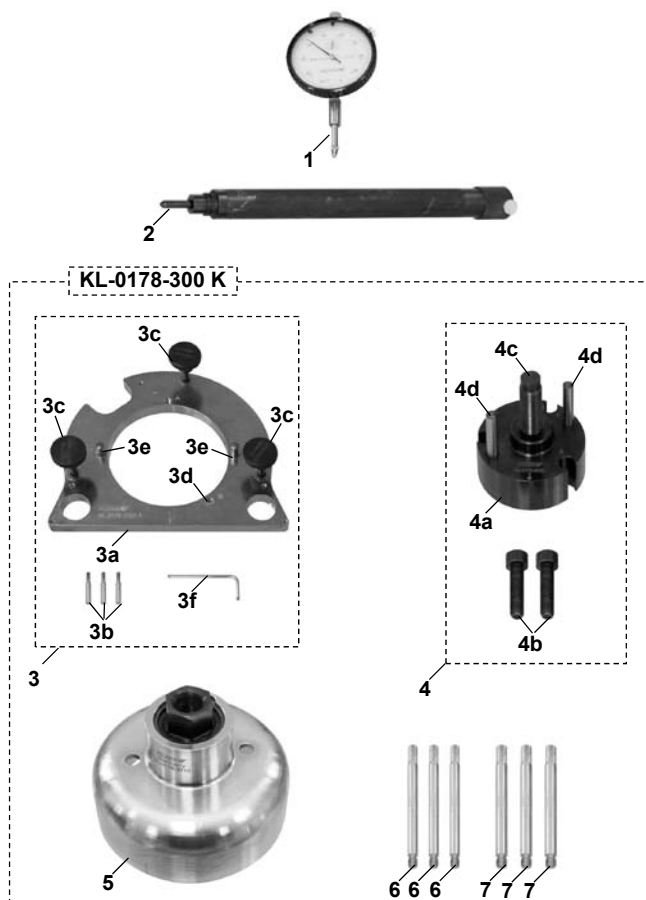
17. Lightly screw in the fixing screws of the sealing flange alternately crosswise, until the flange completely fits on the engine block.

Fig. 14: Tighten sealing flange

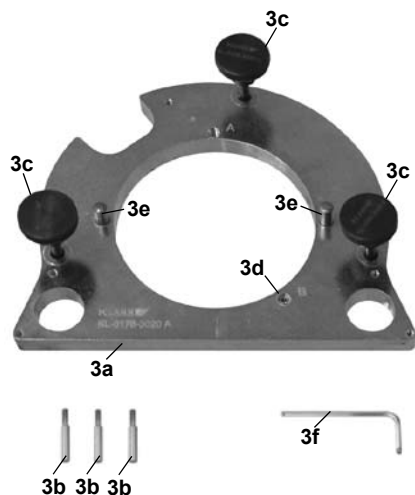


18. Screw fixing screws onto the engine block according to the manufacturer's specifications and instructions. (Fig. 14)

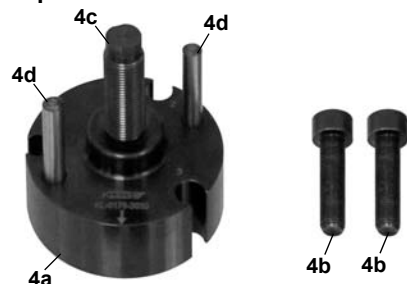
Scope of delivery: KL-0178-30 K



Individual parts: KL-0178-3020 A



Individual parts: KL-0178-3030



Scope of delivery

Item	Article No.	Designation	Qty.
	KL-0178-30 K	Mounting Tool for sealing flange with integrated sender wheel	1
<i>Consisting of:</i>			
	KL-0178-300 K	Mounting Tool for sealing flange with integrated sender wheel without dial gauge	1
1	KL-0128-1	Dial gauge Ø58 mm	1
2	KL-1681-111	Adaptor M14x1.25 for TDC adjustment	1

Item	Article No.	Designation	Qty.
	KL-0178-300 K	Mounting Tool for sealing flange with integrated sender wheel without dial gauge	1
<i>Consisting of:</i>			
3	KL-0178-3020 A	Pressure plate	1
4	KL-0178-3030	Flange with spindle	1
5	KL-0178-3010	Housing with shoulder nut	1
6	KL-0178-3040	Guide pin Ø7 mm	3
7	KL-0178-3050	Guide pin Ø8 mm	3
	KL-0178-3090 A	Plastic storage case (not shown)	1

Item	Article No.	Designation	Qty.
3	KL-0178-3020 A	Pressure plate	1
<i>Consisting of:</i>			
3a	KL-0178-3020-1 A	Pressure plate	1
3b	KL-0178-3020-5	Spacer bolts	3
3c	KL-0178-3020-3	Knurled screw M6	3
3d	KL-0178-3020-2	Setscrew M5	1
3e	KL-0280-1303	Dowel pin Ø6 x 18 mm	2
3f	KL-0178-3029	Hexagon socket key for setscrew	1

Item	Article No.	Designation	Qty.
4	KL-0178-3030	Flange with spindle	1
<i>Consisting of:</i>			
4a	KL-0178-3030-2	Flange	1
4b	KL-0178-3030-3	Hexagon socket screw M10x1 x 40 mm	2
4c	KL-0178-3030-1	Spindle M16 x 1.5	1
4d	KL-0178-3030-5	Dowel pin Ø8 x 60 mm	2





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