Note

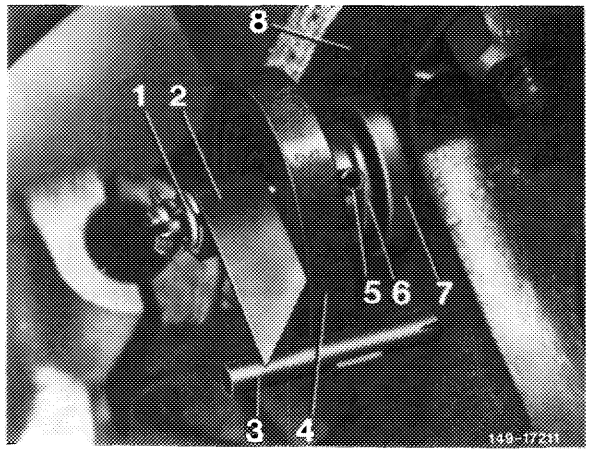
Since October 1979, bearings made of sintered ceramics are installed for mounting heater flap, as well as a thrust washer made of sintered metal, In the event of repairs, always install only these new bearings, since they are maintenance-free (no more lubrication).

Remove exhaust manifold for replacing heater flap bearings.

Removal and installation

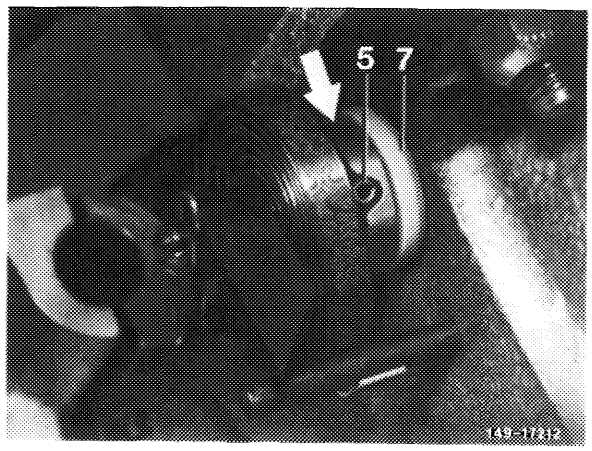
1 Force off locking spring (1), remove stop spring (2) and heater flap spring (4). Force out setpin (5) and remove thrust ring (6) as well as bearing bushing (7).

2 Remove scale from semi-spherical cutout in exhaust manifold with triangular scraper or emery cloth.

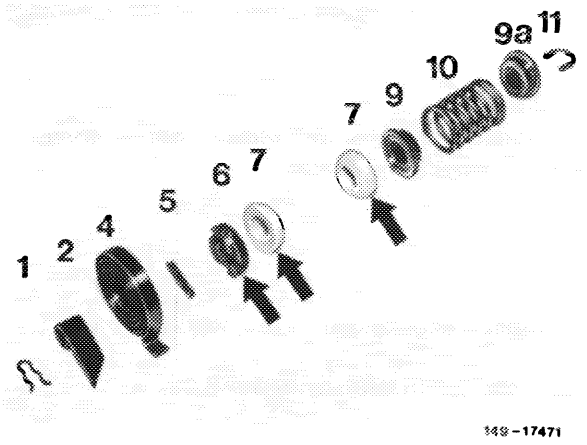


1 Locking spring
2 Stop spring
3 Stop pin
4 Heater flap spring
5 Setpin
6 Thrust ring
7 Bearing bushing
8 Exhaust manifold

3 Install ceramic bearing bushing (7) and sintered metal thrust washer (arrow). Knock in setpin (5). Pay attention to correct installation position of thrust washer (arrow).

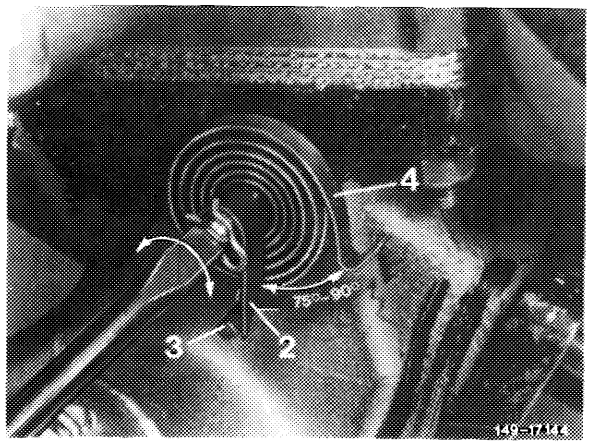


Arrow = installation position of thrust washer



1 Locking spring
2 Stop spring
4 Heater flap spring
5 Setpin
6 Thrust washer (sintered metal)
7 Bearing bushing (sintered ceramics)
9 Centering disk
9a Centering disk
10 Compression spring
11 Locking ring

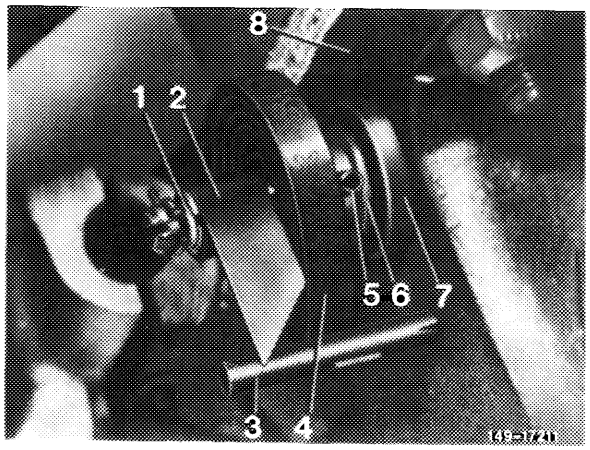
4 Screw heater flap shaft by means of screwdriver to the right up to stop (in flap position intake manifold heater). Install heater flap spring (4) and stop spring (2). Preload heater flap spring approx. 75–90° and attach to stop pin (3). Push on locking spring (1, bottom Fig.).



Heater flap shaft against stop (heater flap in position heating of intake manifold)

2 Stop spring
3 Stop pin
4 Heater flap spring

Note: On cold engine, the stop spring (2), as shown in Fig., should rest outside against stop. To make sure, and if required, slightly turn heater flap shaft away from stop to the left prior to installing stop spring.



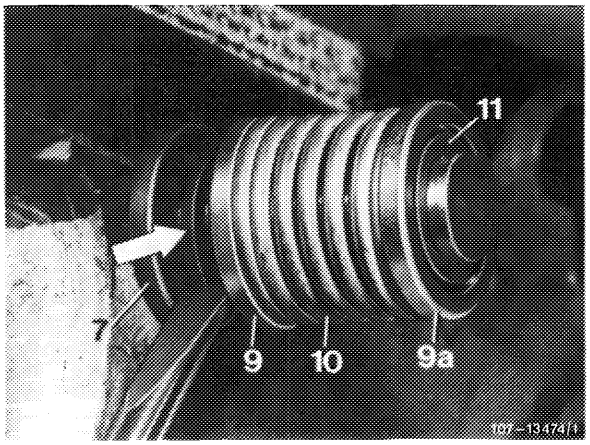
5 On engine 115, remove hose for preheating intake air and disconnect regulating rod on throttle valve lever of carburetor.

6 Push off locking ring (11) on compression spring side. Remove centering disks (9, 9a) together with compression spring (10), thrust ring (arrow) and bearing bushing (7).

7 Install ceramic bearing bushing, centering disk (9), compression spring (10) as well as centering disk (9a). Compress this assembly while inserting locking ring (11) into ring groove of heater flap shaft.

Note: For some time, a thrust ring has also been installed between locking ring (11) and centering disk (9a). This ring and the thrust ring (arrow) should no longer be installed.

Attention!
The heater flap bearing with ceramic bearing bushings need no longer be lubricated.



Flat rate

Basic job: 9 flat rate units or 0.8 hours

Connected job: 6 flat rate units or 0.5 hours

Connected job (intake manifold-exhaust manifold removed) 4 flat rate units or 0.3 hours, 10 flat rate units or 0.8 hours.

Spare parts

Designation	Part No.
Repair kit	123 586 00 14