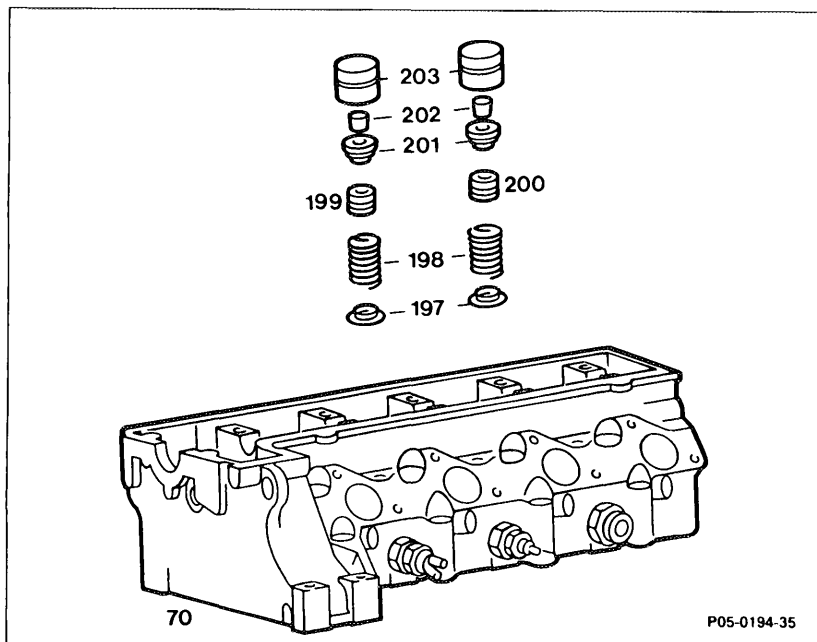


05-250 Removal and installation of valve springs

Preceding work:
Camshaft removed (05-220)



A. Cylinder head removed

Cylinder head (70)	clamp. Assembly table 601 589 01 59 00, support bridge 601 589 02 59 00.
Valve tappet (203)	remove, install. Magnetic lifter 102 589 03 40 00.
Valve springs (198)	remove, install, check (05-260). Lever press 601 589 02 61 00, magnetic lifter 102 589 03 40 00. Color marking downwards.
Valve stem seals (199, 200)	replace (05-270).

B. Cylinder head installed

- Valve tappet (203) remove, install.
Magnetic lifter 102 589 03 04 00.
- Piston of cylinder concerned position on TDC.
Retaining gear 601 589 01 40 00.
- Valve springs (198) remove, install, check (05-260).
Support bridge 601 589 02 59 00, lever press
601 589 02 61 00.
Magnetic lifter 116 589 06 63 00.
Color marking downwards.
- Valve stem seals (199, 200) replace (05-270).

Since 03/86 the lower valve spring retainers have been revised. They are now the same as those on the engines 102 and 103 (standardization).

Production breakpoint: 03/86

Model	Engine	Engine end No.		Vehicle identification end No.	
		Manual transmission	Automatic transmission	A	F
124.133 124.193	603.960	-	000016	*	*
126.125	603.961	-	001093	*	*
201.126	602.911	015830	003949	*	215978

* not recorded

Since 08/88 the valve spring retainers are in bath nitrided material (previously case hardened).
Standardization with engines 102 and 103.

Production breakpoint: 08/88

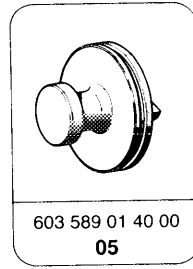
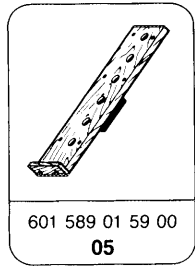
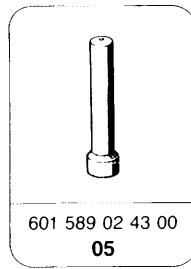
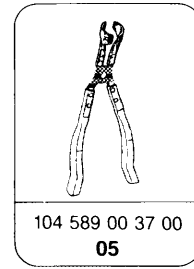
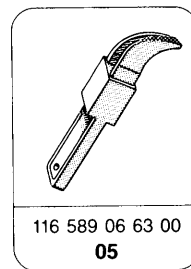
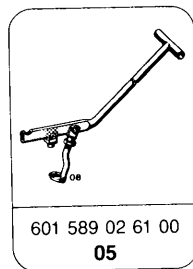
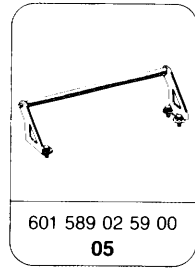
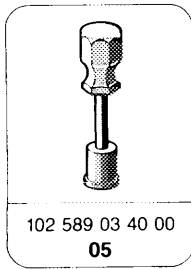
Model	Engine	Engine end No.		Vehicle identification end No.	
		Manual transmission	Automatic transmission	A	F
124.133 124.193	603.960	-	018302	*	*
201.126	602.911	067330	013824	*	*
201.128	602.961	-	003806	*	*

* not recorded

Note

Color markings of valve springs yellow/green or violet/green or yellow/blue or violet/blue.

Special tools



A. Cylinder head removed

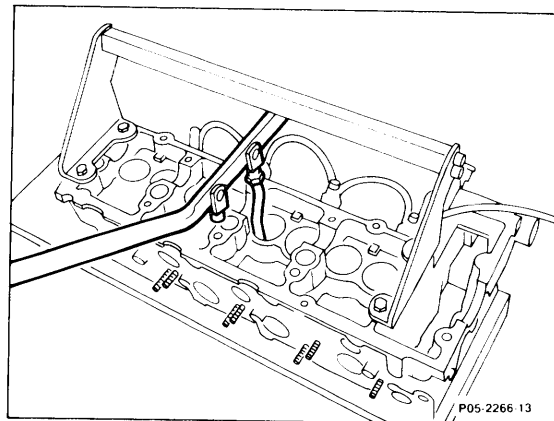
Removal and installation

- 1 Clamp cylinder head on assembly table 601 589 01 59 00 with 4 cylinder head bolts.
- 2 Remove valve tappets. Magnetic lifter 102 589 03 40 00.

Installation note

Lubricate valve tappets. Note sequence.

- 3 Attach support bridge 601 589 02 59 00 to cylinder head.
- 4 Press valve spring retainers downwards with lever press 603 589 02 61 00.



5 Remove valve cotters with magnetic lifter
116 589 06 63 00.

6 Take out valve springs and valve spring
retainers.

Installation note

Install valve springs with the color marking
downwards.

7 Check valve springs (05-260).

8 Replace valve stem seals (05-270).

9 Installation takes place in the reverse
sequence.

B. Cylinder head installed

Removal and installation

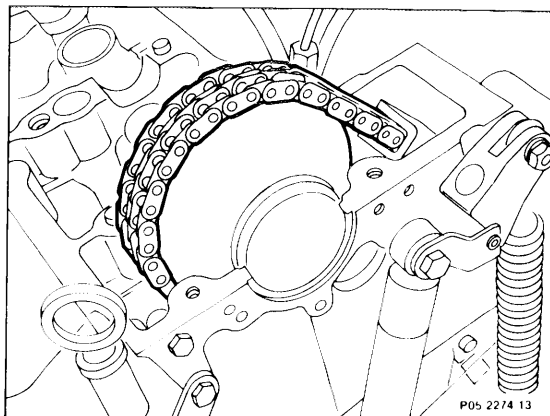
1 Remove valve tappets with magnetic lifter
102 589 03 40 00.

Installation note

Lubricate valve tappets, note sequence.

2 Place piston of the cylinder concerned on
TDC.

Use retaining gear 603 589 01 40 00 instead of
camshaft timing gear or camshaft in order to turn
the engine.

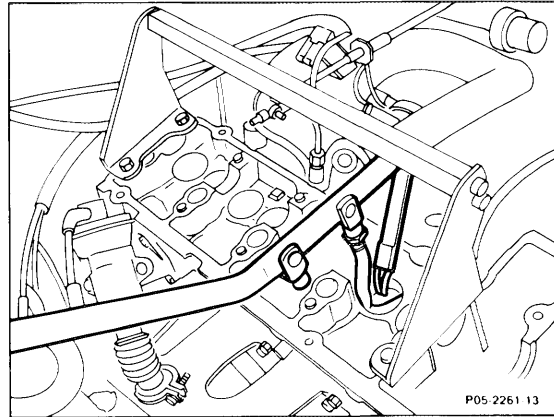


3 Attach support bridge 601 589 02 59 00 for lever press on cylinder head.

4 Press valve spring retainers downwards with lever press 601 589 02 61 00.

5 Remove valve cotters with magnetic lifter 116 589 06 63 00.

6 Remove valve springs and valve spring retainers.



Installation note

Install valve springs with the color markings downwards.

7 Check valve springs (05-260).

8 Replace valve stem seals (05-270).

9 Installation takes place in the reverse sequence.