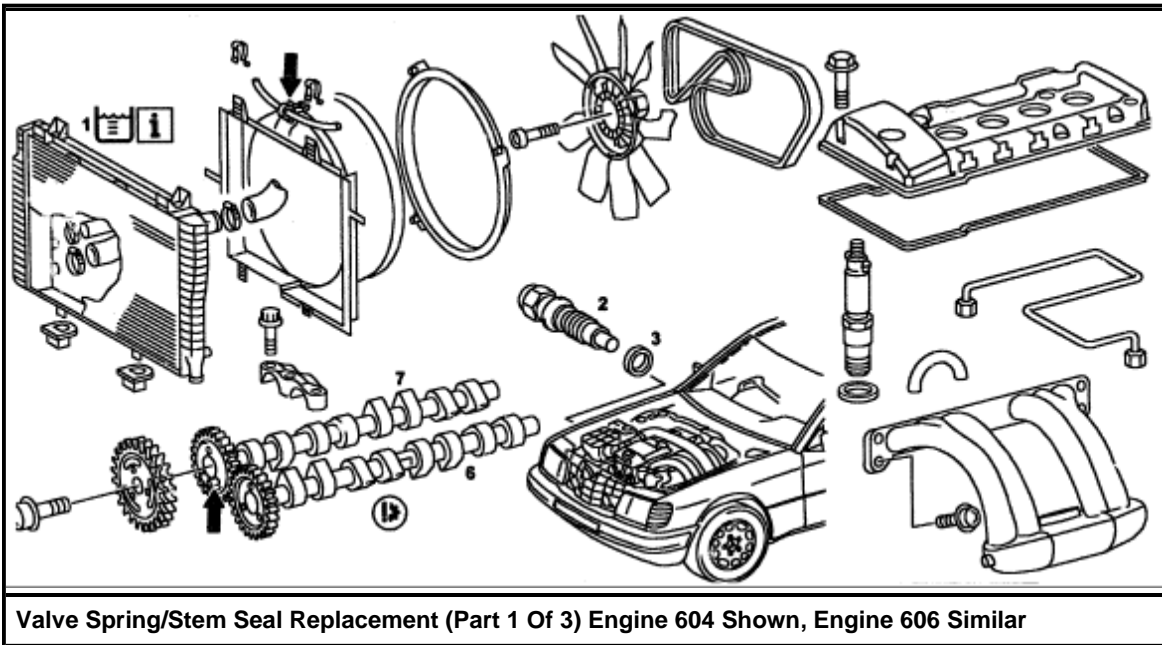
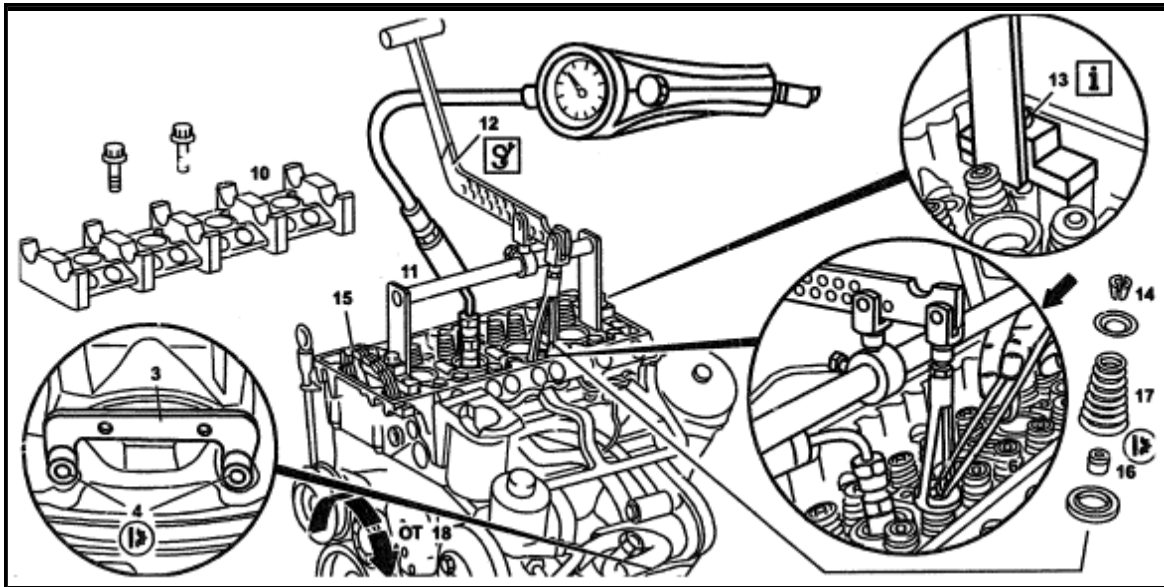


Your Vehicle: 1999 Mercedes Benz E 300TD (210.025) L6-3.0L DSL Turbo (606.962)

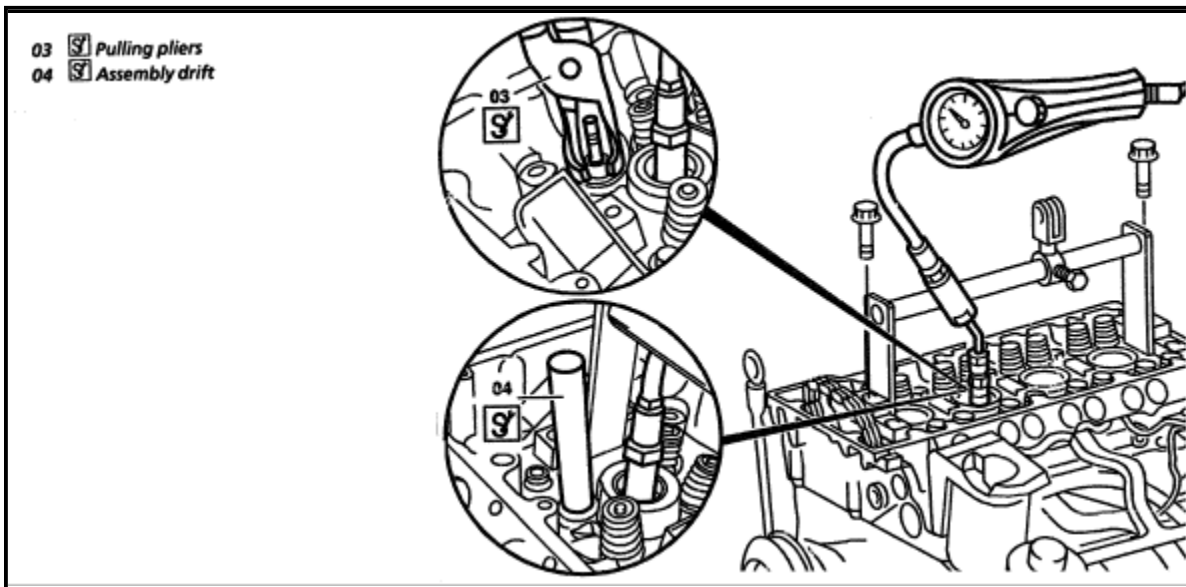
[Vehicle](#) » [Engine, Cooling and Exhaust](#) » [Engine](#) » [Valve Spring](#) » [Service and Repair](#)

Service and Repair





Valve Spring/Stem Seal Replacement (Part 2 Of 3) Engine 604 Shown, Engine 606 Similar



Valve Spring/Stem Seal Replacement (Part 3 Of 3) Engine 604 Shown, Engine 606 Similar

**NOTE:** Numbers in parentheses ( ) indicate a component or tool in the associated illustration.

#### REMOVAL

#### CAUTION

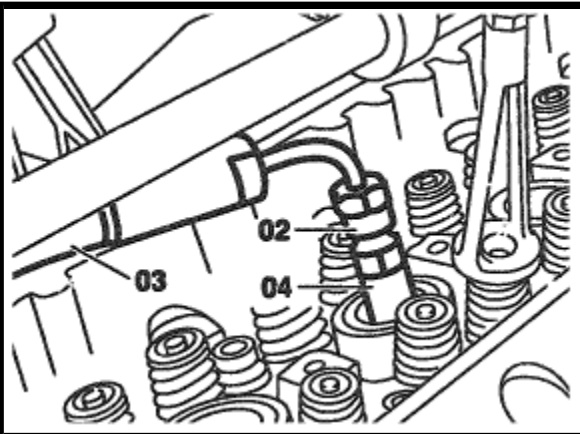
- Risk of scalding as a result of hot coolant spraying out
- Do not open the cap of the expansion reservoir or radiator unless the coolant temperature is below 90°C.
- Carefully turn cap to the first detent or slowly about 1/2 turn.
- Wear protective clothing.

1. Remove radiator (1), refer to Cooling System.
2. Remove chain tensioner (2). See: Timing Chain Tensioner Service and Repair

3. Remove camshafts (6, 7). [See: Camshaft\Service and Repair\Procedures](#)
4. Remove [camshaft housing](#) (10). [See: Camshaft Bearing\Service and Repair](#)
5. Attach supporting beam (11) with slide, lever presser (12) and thrust piece to cylinder head
  - Use the [camshaft housing](#) 7x42 mm bolts (13)
  - Tighten to: **15 Nm**
6. Rotate [piston](#) of the cylinder to be serviced to TDC
  - Rotate engine at the [crankshaft](#); hold [timing chain](#) (15) up when doing this so that it does not jam.
7. Install plate (3) for locking [crankshaft](#)/ring gear, refer to Installing/Removing Crankshaft Retaining Lock. [See: Service : Repair\Procedures](#)
  - After positioning cylinder to be serviced to TDC, in order to prevent [crankshaft](#) or [piston](#) being turned further

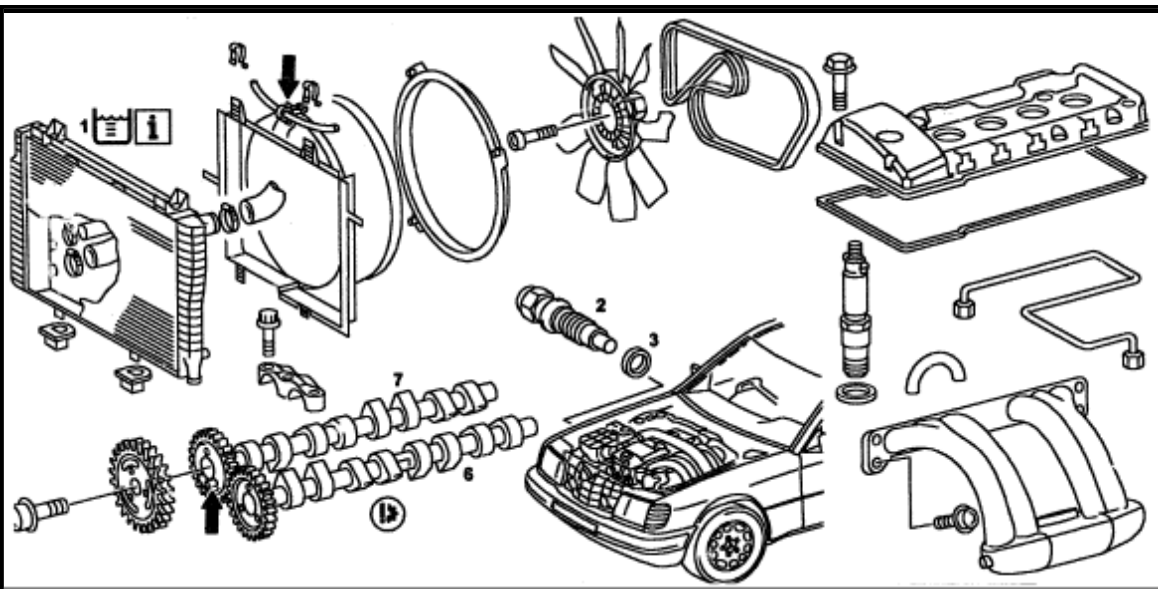
**NOTE:** Use 6 x 90 mm bolts (4) otherwise the threads in the rear end cover will be damaged.

8. Connect Cylinder leak tester (20) as follows

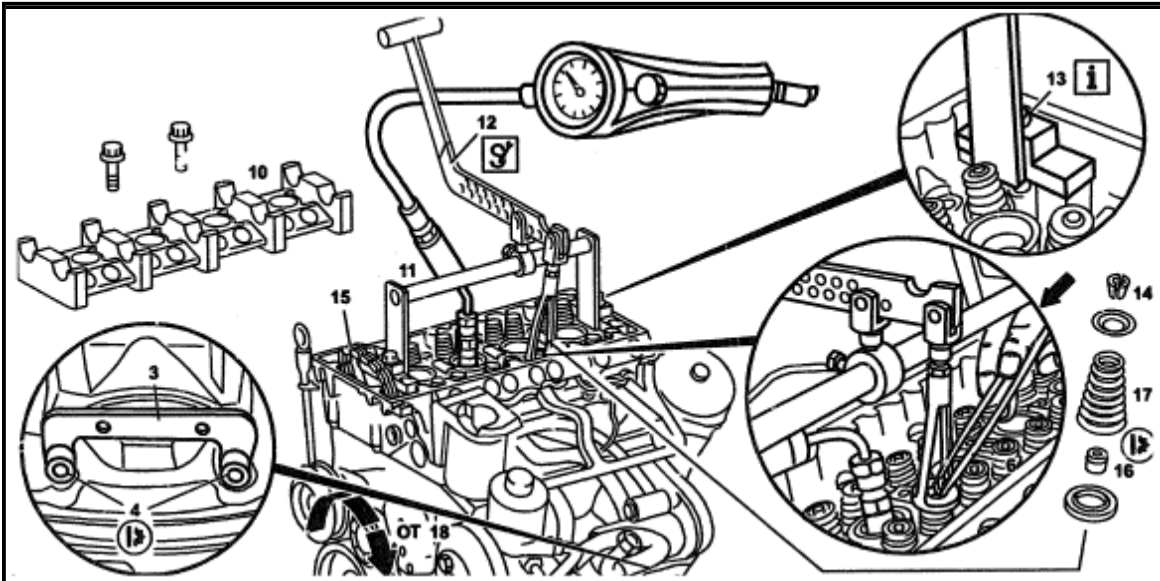


- Screw short connector (04) with the angled connection piece (02) into the prechamber of the cylinder to be tested.
- Calibrate cylinder leakdown tester and screw connection hose (03) of the tester onto the connection piece (02).

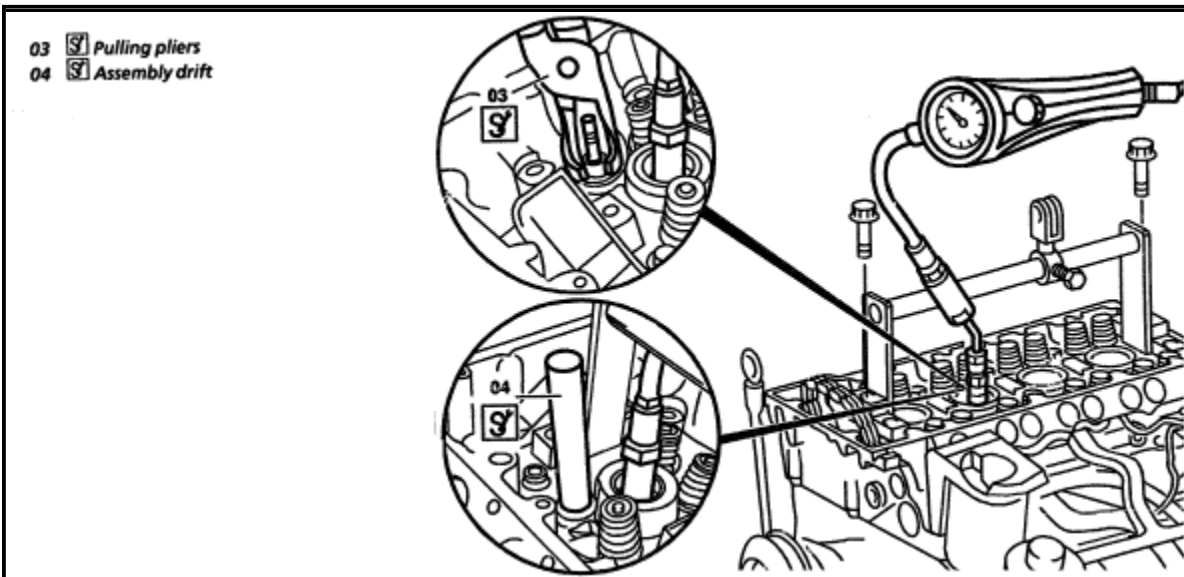
9. Pressurize the compression chamber of the cylinder to be serviced with about 5 bar



Valve Spring/Stem Seal Replacement (Part 1 Of 3) Engine 604 Shown, Engine 606 Similar



Valve Spring/Stem Seal Replacement (Part 2 Of 3) Engine 604 Shown, Engine 606 Similar



Valve Spring/Stem Seal Replacement (Part 3 Of 3) Engine 604 Shown, Engine 606 Similar

- 10. Remove valve springs (17)
- 11. The valves must not strike the piston crown.
- 12. Remove valve collets (14) with tweezers (6) or magnetic pin or magnetic finger.
- 13. Remove valve stem seals (16)
- 14. Inspect valve stems for presence of burrs, deburr if necessary

**INSTALLATION**

- Install in the reverse order, noting the following. When installing oil valve stem seals, use assembly drift (04) to press  
be hand.

Replace seal of chain tensioner (31)

Tighten bolts of [camshaft bearing](#) caps to: **15 Nm**

Ensure that the colored markings on [timing chain](#) and camshaft sprocket are again aligned after installing the camshafts.

[Account](#) | [Vehicle](#) | [Contact](#) | [Exit](#)

© 2012 ALLDATA, LLC. All Rights Reserved. [Trademarks](#) | [Privacy Policy](#) | [Terms and Conditions](#)