

## Valve Spring Compressor Assembly Set



### GENERAL INFORMATIONS

The tool set is used for tensioning the valve springs, disassembly / assembly of valve wedges and includes an adapter for filling the combustion chamber with compressed air. This set allows e.g. renewing the valve stem seals without disassembly of the cylinder head.

### SAFETY ADVISE

- These instructions are for information purposes only, exact and detailed instructions, see the appropriate workshop literature.
- When working with this tool always wear safety gloves and safety glasses
- This tool set is designed for removing valve springs. Use the tool only for those purposes, other inappropriate use may result in damage to the tool.

## OPERATION

1. Mount the lever (1) in the slot of the valve spring adapter (2) and secure it with the safety bolt (3):

**Note:** There are several holes in both the levers as well as in the valve spring adapter, they determine the proper location of the adapter on the valve.

2. Locate the best place for the support, like to see in the picture.
3. Attach the two supports, using the screws, on the cylinder head and slide the round rod in a matching hole.

**Note:** There are 7 holes in the side supports for the correct positioning of the round rod.

4. Remove Spark plugs or diesel injection nozzle from the cylinder head.
5. Insert the adapter with hose in the spark plug or injector thread.
6. Rotate the engine to Ignition TDC, block the crankshaft and connect adapter to compressed air.
7. Put the lever (1) with one of the two notches (4) under the round rod, ensure that the valve spring adapter perpendicular press down the valve spring.
8. If the spring valve adapter do not press the valve spring perpendicular, use the different holes in support and lever to realigned.
9. Check if valve remains closed when depress the valve spring.
10. By easy uniform beating on the valve spring retainer, the Valve spring retainer can be loosen
11. By pressing down the lever, the valve spring is tensioned. Now valve keeper can be removed. Valve can not fall down into combustion chamber.
12. Decompressing the Valve spring slowly. Remove spring and spring plate and renew valve stem seals.
13. The assembly works in reverse order.

