

LASER[®]

Valve Spring Compressor Complete with 4 adaptors

Instructions

This tool has been designed to enable the replacement of valve springs and valve stem oil seals on overhead cam engines without the need to remove the cylinder head.



Guarantee

If this product fails through faulty materials or workmanship, contact our service department direct on: +44 (0) 1926 818186. Normal wear and tear are excluded as are consumable items and abuse.

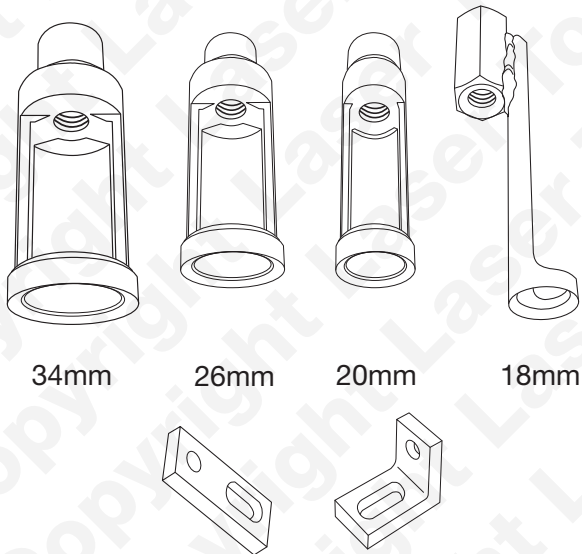


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Features

- Fits both single (SOHC) and double (DOHC) overhead cam engines.
- No need to remove the cylinder head.
- Quick and easy to set up and use with a large range of adjustment.
- Set includes 3 standard valve adaptors (34mm, 26mm, 20mm) and one offset adaptor (18mm), plus two additional brackets which enable many different mounting points to be used.



- Choose a method of holding the valve in place while the valve spring is compressed. This could be by placing the piston at TDC (top dead centre) or by the use of a compressed air adaptor to pressurise the cylinder to hold the valve closed during the valve spring compression operation.
7. If using the compressed air method:
 8. Remove the spark plug or glow plug from the engine.
 9. Screw the air line adaptor into the spark plug hole or glow plug aperture of the cylinder concerned. Do not overtighten.
 10. Connect the adaptor to an air supply (minimum 90psi). This will hold the valve closed.
 11. Check that the valve adaptor lines up correctly with the valve spring retaining cap. Adjust if necessary.
 12. Depress the handle; the valve spring will then be compressed and the retaining collets can be removed.
 13. The valve spring can then be removed (and replaced if necessary) and new valve stem seals can be fitted.
 14. Re-compress the valve spring, insert the retaining collets and release tension on compression handle to finish.
 15. Repeat instructions for other valves as necessary.

Instructions

1. Remove camshaft. Sometimes both camshafts need to be removed to access suitable mounting points.
2. Decide the most suitable mounting point for the adjustable upright — this may be the cam cover fixings, the camshaft bearing cap mounting points, or an exhaust manifold stud for example.
3. There are several holes in the compression handle and ranges of threaded adjustment in the mounting upright and the valve adaptor mount to enable a suitable mounting point to be chosen.
4. Choose a suitable valve adaptor for the size of the valve spring retaining cap and screw on to the compressor.
5. Adjust the mounting upright and the valve adaptor mount to enable the correct angle and reach to the valve spring retaining cap.
6. Once everything is lined up correctly tighten upright mounting bolts.

NOTE: Instructions are for guidance only. Please refer to the manufacturer's service manual.

Care Points

- Do not attempt to use the tool until the valve has been secured in place (see above).
- Wear eye protection when using.
- Keep tool clean and dust free.
- Screw threads must be kept clean and lightly lubricated (light machine oil).



Safety First. Be Protected.

