



1504 Safety Guidance



Using the Valve Spring Compressor

- Wear protective equipment.
- Take care not to trap or pinch fingers in the springs of the compressor.
- To re-assemble the same valves and springs, the user will need to identify them, so they can be fitted in the same position when rebuilding the cylinder head.
- By closing the release handle while holding the compressor carefully in position on the valve, the springs should be compressed. The compressor will remain locked in the closed position.
- If the spring cap cannot be depressed, then unstick the spring cap and collets that are stuck together with burnt oil or other deposits.
- To do this, remove the valve spring compressor and then place a suitable size pocket (probably 15-19mm) over the valve stem so that it rests on the valve spring cap. Tap the end of the socket smartly with a mallet to shock the valve cap free. 6.
- Now use the valve spring compressor to force the valve spring cap down the valve stem compressing the valve springs. This will release the tension on the collets, which should be carefully removed and put in a safe place.
- Open the release handle to release the tension on the valve spring compressor until the springs are free from compression. Remove the valve spring cap, the valve springs, and finally the valve. Put each item in a safe place.
- Replace the valve assembly by using the above procedure in reverse.
- Always keep the valve spring compressor in line with the valve spring to be compressed. Do not try to compress the spring with the compressor at an angle.
- Do not use excessive pressure or leverage to try to compress the spring. If the compressor will not operate easily, it may mean your valve spring compressor is not in line with the valve spring.
- Take care the equipment does not slip off and allow the valve spring or a collet to fly out causing injury or damage.
- 13. Work must be stopped if anyone approaches the operator.
- 14. Put the valve spring compressor away in its container when it is no longer being
- 15. If the equipment does not work properly, do no attempt to repair it. Contact the hire company
- 16. Please keep this leaflet until all work is complete.

Please keep this leaflet safely as it may be required for future reference







2450 Regents Court

The Crescent







44 (0) 121 333 4109

©Copyright Hire Association Europe April 2011

Any unauthorised reproduction - manually or electronically - is STRICTLY prohibited

Valve Spring Compressor

The rules and procedures in force where people are at work may require the person responsible for this equipment to carry out a specific risk assessment.

It is important to read this entire leaflet **BEFORE** using the Valve Spring Compressor

- 1. The valve spring compressor, although not powered, can cause injury or damage if not used in a careful and controlled way.
- A valve spring compressor is designed to quickly and easily compress most valve springs to enable the removal and refitting of valves in cylinder heads.



- Plan ahead to make sure that all work is carried out safely.
- At least the following items of personal protective equipment must be used; Impact resistant goggles: EN166 - B or BS2092 grade 1;
- The valve spring compressor must not be used by minors, or by anyone under the influence of drugs or alcohol.
- Valve spring compressors are designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using them.











locate it on the valve correctly. while under tension, it could cause injury or damage. Make sure to 5. If the valve spring compressor slips contact the hire company. 1. Check the valve spring compressor and any accessories. If anything is found damaged, do not use it –

VALVE SPRING COMPRESSOR

need to wear appropriate personal

Anybody who is working near to the valve spring compressor will also

B – 881/48) selegogg trastaser traseminosom or BS2092 grade (1) must be when working with this equipment. West gloves when handling the page 1990/89.

compressor, particular jobs or environments may require a higher level of protection

brotective equipment.

level of protection.



Every effort has been made by HAE/EHA to ensure that the information given in this document and supporting materia is accurate and not misleading. HAE/EHA cannot accept responsibility for any loss or liability pero-nave arisen from the use of any such document/material. Only Acts of Parliament and Statutory Ins to have arisen from the use of any such document/material. Only Acts of Parliament and Statu.

have the force of law and only the courts can authoritatively interpret the law.

44 (0) 121 380 4600 44 (0) 121 333 4109

BAY 788 Iludilos The Crescent Birmingham Business Park noo sinagan uca



important to know how to use the operates - before starting work, it is Check on how the valve spring valves on the cylinder head. When the valve spring has been adjusted, it will be suitable for all

screw thread to achieve a close fit. valve to be removed and adjust the correct setting, first open the release handle to extend the compressor jaws. Now fit the compressor to the

stem by the collets. which is held fast on the valve springs pushing against the spring The assembly is held in place by the

To adjust the compressor to the

vaive spring cap. stem and the tapered hole in the shoulder around the top of the valve The collets locate between

and two half collets. one or two springs located on the cylinder head, a valve spring cap, cylinder head) an arrangement of of the valve (pushed through the The valve spring assembly consists







protective equipment are the minimum that should be worn when when the manual that should be solved to the minimum that should be solved to the should 1. The following items of personal **SHOTARIAN**

vice before work is started. secrite on a pench or clamped in a 4. Make sure that the cylinder head is snitable sate place away from others. If possible, move the work area to a

danger. Warn others to keep away. Protect others from any possible the operator to distract them.

and safe and that no-one is near to Make sure that the work area is clear

MORK AREA











