

# Valve Spring Compressor

Application : Engines with Overhead Valves

## Safety Precautions



**CAUTION:** To prevent personal injury,



- Study, understand, and follow these instructions. If the operator cannot read English, operating instructions and safety precautions must be read and discussed in the operator's native language.

- *Si el operador no puede leer inglés, las instrucciones de operación y las precauciones de seguridad deberán leerse y comentarse en el idioma nativo del operador.*



- *Si l'utilisateur ne peut lire l'anglais, les instructions et les consignes de sécurité doivent lui être expliquées dans sa langue maternelle.*

- Wear eye protection that meets ANSI Z87.1 and OSHA standards.

- Spring compression creates a potentially dangerous situation because of the trapped energy. Release the pressure on the compressor before removing the tool from the cylinder head.

## Operating Instructions

1. Position a short metal tube on the spring cap – NOT the valve – and lightly tap the tube with a hammer. This loosens the collets from the spring retainer and valve spring keepers.
2. If applicable, remove the clip from the valve keeper.
3. Determine which release adapter, 1 in. (25 mm) or 1-3/16 in. (30 mm), best fits the application. The adapter should not interfere with the valve keeper. Thread the adapter onto the adjusting screw as shown. (The other adapter may be threaded onto the other end of the screw for storage.)
4. Lock the handle on the valve spring compressor.
5. Position the compressor with the release adapter aligned squarely on the spring retaining cap, and the cup on the end of the T-bar actuating screw pressing against the valve.
6. Tighten the T-bar handle to compress the valve spring and expose the collets.

**CAUTION :** To prevent equipment damage, if the spring cap refuses to free up and release the collets, **LOOSEN THE T-BAR** until pressure is released from the spring retainer. Remove the compressor and repeat Steps 1–6.

7. Remove the collets, and loosen the T-bar handle to release pressure before removing the compressor.



**CAUTION :** To prevent personal injury, before removing the tool from the cylinder head, release pressure on the compressor by loosening the T-bar handle.

The valve spring assembly can now be removed from the cylinder head.

