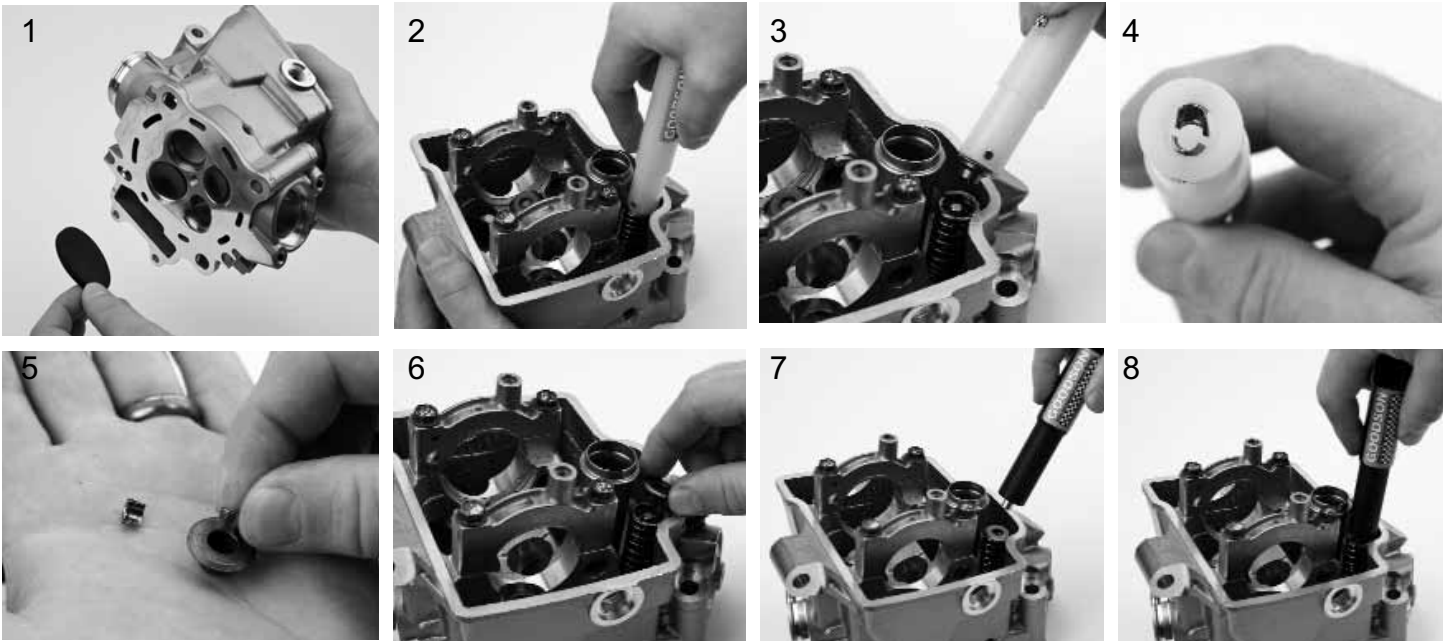


# VKI-35 Small OHV Engine Keeper Removal/Installation Tool

# GOODSON

Tools and Supplies for Engine Builders

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## **Please read instructions before using.**

Uses your own body weight as leverage to remove or install keepers.

Works with 3.5mm to 5.5mm **single** groove valve stems only.

Complete set includes a remover with 2 powerful earth magnets to hold keepers in place after removal. Universal spring loaded installer, and 2 non-slip valve chamber pads.

## **Instructions for removal and installation of keepers**

Place chamber pad in combustion chamber. (1) The pad should contact the valve heads and stand flush to slightly above the surface of the head. If one pad does not stand above the surface, a second pad should be stacked on the first. This provides a cushion/stop to support the valve as we remove/install the valve keepers.

Turn cylinder head with deck to work bench, trapping the chamber pad or pads between valves and bench top.

Using the white removal tool, (2) place the magnetized end centered on the valve spring retainer. Apply steady down pressure on the retainer listening for the valve keepers to hit the magnets. A clicking sound will take place as the keepers are retained by the magnets. Slowly raise the removal tool, (3) and remove the retainer and keepers from the magnets. Now you can remove valve spring and valve. Repeat for each valve assembly.

To reassemble, install all valve components. Make sure chamber pads are in place as described in disassembly. Place keepers in retainer, with large ends up. (5) Place retainer assembly over valve spring and valve tip. (6 & 7) Now with the black handled installation tool, we will final assemble. Place the spring loaded plunger shaft of the tool, centered in the keepers. Lower the handle of the tool squarely to the retainer. (8) Press down slowly on assembly again listening for an audible click as the keepers drop into the keeper groove of the valve stem. Slowly remove pressure, and remove installation tool. Repeat for each valve assembly.