

INSTALLING 0.500" VITON VALVE SEALS

The early TR6 engine with single valve springs has enough room between the guide and spring to fit a valve seal. The later engine with dual springs has limited clearance for a seal. Good Parts Viton seals have a thin wall that presses over the guide so they fit inside all single and most dual valve springs. The outside diameter when pressed onto the guide is 0.550". Check the inside diameter of your inner springs to make sure they will clear. A minimum of 0.590" diameter is recommended to allow 0.020" clearance around the seal. Good Parts dual valve spring sets will work with Viton seals. It's important that the valve springs are centered around the guide to maintain equal clearance on all sides. Good Parts Valve Spring Seats (SKU 3091) are recommended to keep valve springs centered around the guide when using dual valve springs with valve seals. It's also important that the springs are centered around the valve at the top. The original intake valve spring retainers do a good job of centering both the inner and outer springs but the original two-piece exhaust valve spring retainers only center the outer spring. For proper centering of the inner spring you can replace the exhaust retainers with original intake retainers or upgrade to Good Parts Titanium Retainers (SKU 3074B).

A minimum of 0.165" clearance is required between the guide and retainer. If there is too little clearance the retainer will smash into the seal at full valve lift. To check your clearance, put a valve in place without valve springs and hold a retainer and locks in place then with the valve in closed position, measure the distance from the top of the guide to the bottom of the retainer. From that measurement, subtract your net valve lift. If the result is less than 0.165" you do not have enough clearance for seals. The guides will need to be shortened or pressed further into the head.

The seals should be installed with the valves and any spring shims and seats in place. Lubricate the valve stem and slide the seal down over the valve stem to the guide. Slide the installation tool onto the valve stem and down over the top of the seal. Lightly tap straight down on the tool to drive the seal fully onto the guide. The tool is also designed as a press-in tool for installing the guides. Using the tool, press the guide into the head until the tool contacts the head. This will place the guides at 0.570" height which generally leaves room for valve seals with valve lift up to about 0.450".



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