

Installation Instructions for KPMI Part No: 70-70250

Triumph 750 • 1973 - '83

O.E.M. Replacement Valve Spring Kit

A) 70-70250 Kit Includes

Part Number	Qty	Application	Description
70-70251	4 - Pcs	Intake / Exhaust	H.T. Steel Retainers
70-70253	4 - Prs	Intake / Exhaust	Chrome Silicon Springs
70-70255	4 - Pcs	Intake / Exhaust	H.T. Steel Basewashers

B) Recommended Installed Height - Intake/Exhaust

1.	Installed Height (Outer Spring)	1.245" - 1.255"
2.	Seat Pressure	68#
3.	Open Pressure at .322" lift	139#
4.	Open Pressure at .348" lift	145#
5.	Max Valve Lift	0.415"

Note: It may be necessary to use KPMI shortened valve guides (KPMI® #70-033X/M/S) to achieve higher than stock lift.

C) Notes

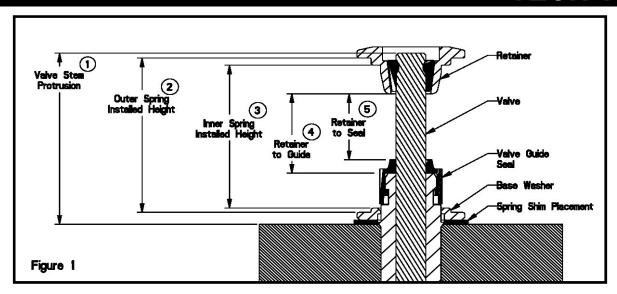
1. The difference between the installed height and the coil bind height is considered "Free-Travel"

The coil bind height is determined by compressing the spring or springs with the retainer and basewasher in place, a vice can be used for this operation, once springs are compressed measure the distance between the retainer and basewasher where the outer spring contacts them.

- 2. Free-travel should always be gross valve lift +.060" for safe operation.
- 3. Retainer to seal and retainer to guide clearance should also be gross valve lift +.060" for safe operation.
- 4. Failure to check valve train clearances can result in serious damage to an engine

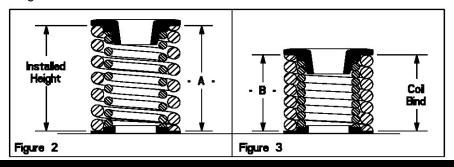
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TECH TIPS



Valve Train Terminology

- 1. Stem Protrusion is measured from the tip of the valve stem to the cylinder head. See Figure 1.
- 2. Outer spring installed height is measured where the outer spring contacts the retainer and lower component when assembled. See Figure 1.
- 3. Inner spring installed height is measured where the inner spring contacts the retainer and lower component when assembled. See Figure 1.
- 4. Retainer to guide clearance is the distance between the valve guide (w/o the seal) and the bottom of the retainer, with the valve in the closed position. See Figure 1 and Notes 3 & 4.
- 5. Retainer to seal clearance is the distance between the valve stem seal and the bottom of the retainer, with the valve in the closed position. See Figure 1and Notes 3 & 4.



Installed Height

1. In Figure 2 the installed height is measured from where the outer spring contacts the retainer and the basewasher. This measurement is taken when the valve, basewasher, retainer, and keepers are assembled in the cylinder head.

Coil Bind / Solid Height:

1. In Figure 3 the coil bind height is determined by compressing the spring or springs with the retainer and basewasher in place, a vice can be used for this operation, once springs are compressed measure the distance between the retainer and basewasher where the outer spring contacts them.

Notes:

- 1. The difference between the installed height and the coil bind height is considered "Free-Travel"
- 2. Free-travel should always be gross valve lift +.060" for safe operation.
- 3. Retainer to seal and retainer to guide clearance should also be gross valve lift +.060" for safe operation.
- 4. Failure to check valve train clearances can result in serious damage to an engine.