



4859 Convair Drive
Carson City, NV 89706
Phone (775) 884-2292
Fax (775) 884-3363

INSTALLATION INSTRUCTIONS Please follow these instructions to ensure the proper operation of your T & D MACHINE PRODUCTS Viper V-10 Rocker Arm Assembly.

1. DETERMINE CORRECT STAND HEIGHT

Install the rocker stands on the cylinder head using the 3/8-16, attaching bolts. The stands should be placed on the head so that the stamped letters face the valve stem. Remove a rocker arm from one of the shafts and place that shaft on a stand. Take the shaft height gage supplied with the kit and place it on the valve stem as shown in Figure 1.

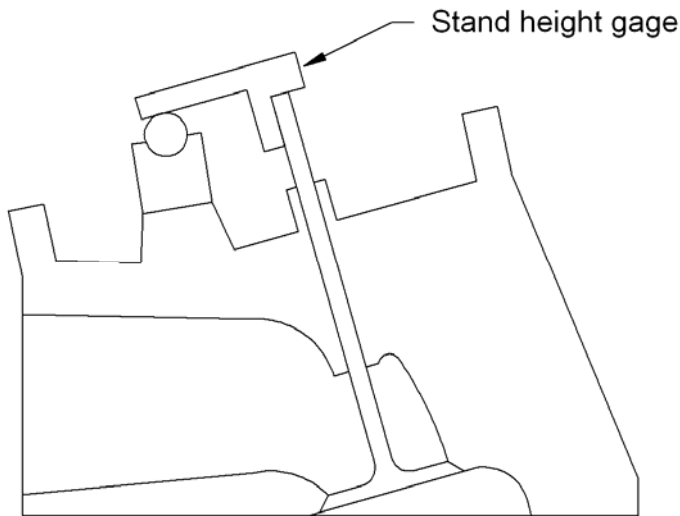


Figure 1

The gage should contact the top of the valve and the rocker shaft as shown in Figure 1.

If the gage contacts the shaft before touching the top of the valve stem, as shown in Figure 2, remove a corresponding amount of material from the stud bosses on the cylinder head. This will lower the rocker stand on the cylinder head.

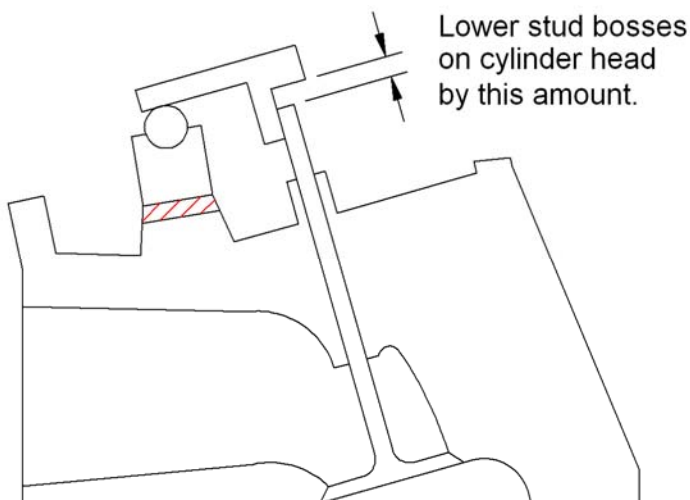


Figure 2

If the gage contacts the top of the valve stem and does not touch the rocker shaft, as shown in Figure 3, add a corresponding amount of shims between the stand and the cylinder head. This will raise the rocker stand and shaft to the correct height.

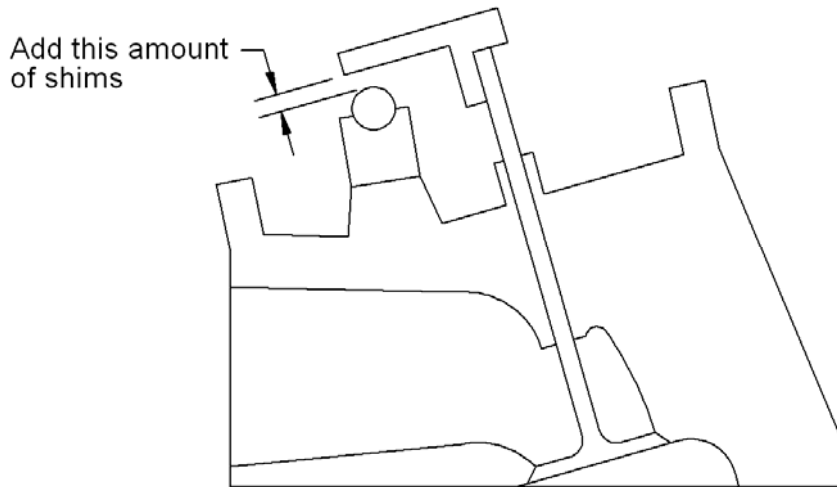


Figure 3

2. DETERMINE CORRECT PUSHROD LENGTH

Place a pushrod length checker into a lifter and install a rocker arm assemblies. Be sure the cam is rotated to the base circle. Seat the bottom of the adjuster screw up against the recess in the rocker arm and turn the adjuster screw clockwise one full turn down. This is the initial adjuster position. Adjust the pushrod length tool to the proper length, remove from the engine, and measure its overall length.

The rocker arm should not be operated with the adjuster screw more than one turn up or down, from the initial adjuster position. Doing so can cut off the flow of oil to the rocker arm.

3. FINAL ASSEMBLY

After all of the stand heights have been set, place a rocker and shaft back on the stand to assure good rocker to valve alignment and torque the stand attaching bolts to 35/40 ft-lbs. When the stands are aligned and tightened down, place the rocker arm and shaft assemblies on the stands and tighten the shaft hold down nuts to 25 ft-lbs. After all of the rockers have been tightened down, set valve lash and torque the adjuster screw jam nut to 5/20 ft-lbs.