

## INSTALLATION OF TR2-4 ROLLER ROCKER ASSEMBLY

**CAUTION: DO NOT exceed 18 ft/lb torque on the adjuster nuts.**

- 1) Remove the rocker cover and the original rocker assembly.
- 2) Remove the push rods and check both ends for wear. Replace if needed.
- 3) Turn all valve adjusters fully counter clockwise.
- 4) Loosen the two small hex socket bolts in the wing of the front pedestal. At least one of these has been tightened to hold the assembly together for shipping but must be loosened to allow alignment of the pedestals on the head. The bolts in the rear pedestal do not need to be loosened. Lower the roller rocker assembly on the head, aligning the push rods as you lower it.
- 5) Check the rocker operating clearance by slipping a .010" feeler gauge between one end of each shaft spacer and the rocker. Clearance between the mounting stud and the hole in the pedestal allows the pedestals to be moved slightly to adjust rocker operating clearance. Bolt the rocker assembly down, tightening the four nuts evenly as the assembly is pulled down against valve spring pressure. Some valves will be opening as you pull the rocker assembly down. Re-check that each shaft spacer has room to slide .010" minimum. Torque the pedestal stud nuts to 26 ft/lbs. Tighten the two hex socket bolts in the wing of the front pedestal to clamp end of the shaft. Check that the bolts in the rear pedestal are tight also.
- 6) Before adjusting the valves verify that your valve springs will accept the increased lift. Turn the engine until the valve to be tested is fully open then turn the engine one full turn so it is fully closed. Turn the adjuster in until the clearance is just taken up then tighten the lock nut. Turn the engine carefully by hand while watching the valve spring until the valve is fully open. Stop immediately if the spring bottoms. If your spring is nearly fully compressed at full lift you may want to test all the springs since valve lengths and spring tolerances may vary.
- 7) Adjust the valve clearances in the normal manner but add 6% for 1.55:1 rockers or 12% for 1.65:1 rockers to the cam manufacturer's recommended valve clearance. Torque the adjuster nuts to 15 – 16 ft/lb. **DO NOT exceed 18 ft/lb torque on the adjuster nuts.**
- 8) Check that clearance exists between the shank of each push rod and the head. The high ratio rockers position the top of the push rod a bit closer to the rocker shaft than the stock rockers. This can cause the push rod to hit the head.
- 9) Turn the engine very carefully two full turns by hand while checking that none of the springs are binding at full lift.
- 10) Start the engine with the valve cover removed and check that each rocker receives oil to the roller and to the push rod.
- 11) Install the rocker cover. **Note that a 3/8" thick spacer is required to fit the original rocker cover over the roller rockers.** Alloy covers have been reported to fit with no spacer.



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