



## Installation Instructions for JBR Aluminum Roller Rocker Arms for Nissan A-Series Engines

**Please read this instruction sheet in its entirety before starting this process. Failure to do so could result in severe damage to your engine and/or the rocker arms.**

It is strongly recommended that a NEW rocker arm shaft be used with these roller rocker arms. Installation of the roller rockers on a used rocker arm shaft may result in premature bushing wear. Polish the shaft with #400 wet/dry sandpaper and oil. Be sure to remove all sharp edges from the oil and mounting holes on the shaft before installing the rockers.

Check all valve stems for damage and/or excessive wear and repair as necessary. It is recommended that the valves be removed from the cylinder head and the tips be reground.

### ROLLER ROCKER ARM ASSEMBLY PROCEDURE

1. All components should be cleaned with a suitable solvent and thoroughly dried. Arrange the rockers in the appropriate order: EX-IN-IN-EX-EX-IN-IN-EX
2. Start with three (3) shims (adjust as necessary) and place them between the intake rocker arms and the aluminum pedestals to locate the center of the rocker arm as close to the center of the valve stem as possible.
3. Fit the rocker arm assembly to the cylinder head to determine the exact shimming required.
4. Place one shim between the rocker arm and the separator spring. Failure to install this shim will result in the separator spring damaging the side of the rocker arm.
5. Once the proper shimming has been determined, it is suggested that the rocker shaft pedestals be marked for both location and direction (i.e. 1, 2, 3, 4, 5, - Front). It is recommended that the shimming for the rocker assembly be rechecked if it is later reused in a different engine.
6. The rocker arms are not supplied with adjusters or nuts. You may use the adjusters and nuts from your production rocker assembly, however it is highly recommended that you install new adjusters and nuts on these rocker arms.
7. Install the adjusters in the rocker arms, oil the threads and place the 8mm washers supplied between the nut and the rocker arm to prevent the nut from digging into the aluminum. Use oil liberally in the final assembly process.
8. Once the assembly has been installed on the engine, check the following: (1) Rocker arm to spring retainer clearance, (2) Pushrod cup to rocker arm clearance, and (3) Rocker arm to valve cover clearance. The baffle in the rear of the cover may have to be removed on some valve covers.
9. Set valve lash to your cam grinder's specifications. These rocker arms do not alter the recommended valve lash settings.
10. Oil the complete assembly liberally and install the valve cover.
11. Start the engine and allow it to warm-up completely to normal operating temperature and re-lash the valves while the engine is hot. Due to the expansion characteristics of the aluminum rocker arms, it is imperative valve lash be checked and reset while they are HOT.

**Thank you for purchasing JB Racing Roller Rocker Arms. GOOD LUCK AND GOOD RACING**

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