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## ***LS ALLOY STEEL DROP IN ROCKER ARM SYSTEM INSTALLATION GUIDE***

<b><i>COMPONENTS</i></b>	<b><i>QTY</i></b>
ROCKER ARMS	16
8MM X 1.25 GRADE 12.9 HEX SOCKET BOLTS	16

### **Tool requirements**

3/8" drive ratchet handle  
13mm Hex socket  
8mm Thread chaser tool  
Assembly lube and/or lubricating oil  
Pump-style oil can  
Torque wrench

### **Rocker Arm System Installation:**

Step 1: The rocker arms must be immersed in oil for at least 3 hours prior to installation. This will allow full lubricant penetration of the roller tip and axle.

Step 2: Thoroughly inspect both cylinder heads to ensure they are in good operating condition.

### **REMOVAL OF OLD ROCKER ARMS.**

Step 3: USING CAUTION, begin removal process ONE CYLINDER at a time. Be certain that the valve you are removing is COMPLETELY CLOSED! If not, the threads could be stripped in the head. Properly dispose of the old rocker arms and fasteners.

Step 4: Starting with the #1 cylinder, rotate the crankshaft clockwise, until the intake pushrod reaches its' maximum height. This places the exhaust valve lifter on the heel #1 cylinder's exhaust lobe. Remove the EXHAUST rocker.

Step 5: Take the 8mm thread chaser tool and run it down the bolt hole in the head to remove any burrs or debris. (Repeat for each cylinder as the old rockers are removed.)

**NOTE:** Install the rockers one cylinder at a time, and install in the engine's firing order (1-8-7-2-6-5-4-3).

## INSTALLATION OF NEW ROCKER ARMS

**Step 6:** Spin the exhaust pushrod, pressing down gently on each to make certain the pushrod is in the middle of each lifter pocket.

**Step 7:** Coat the top of the pushrod with PRW Assembly Lube or equivalent (preferred) or fresh engine oil.

**Step 8:** Lube the exhaust valve pushrod seat on the lifter with PRW Assembly Lube or equivalent (preferred) or fresh engine oil. Place a drop of assembly lube (or lubricating oil) on the top of each valve tip.

**Step 9:** Place the 8mm x 1.25 bolt through the hole in the rocker arm with the flat side of the trunnion facing up. Spin the pushrod to insure it is in the lifter pocket. Using the ratchet handle and 13mm hex socket, turn the bolt until it is snug, and you can feel no more lash.

**Step 10:** Tighten the exhaust rocker bolt to the factory torque spec of 22 to 24 ft-lbs. **NOTE:** the last half turn or so will be snug on the lifter which is pumped up with oil.

**Step 11:** Rotate the crank clockwise until the exhaust pushrod reaches its' maximum height. This places the intake valve lifter on the heel #1 cylinder's exhaust lobe. Remove the INTAKE rocker.

Repeat Steps 5-11. Repeat these steps to each remaining cylinder in the engine firing order.

### ***TORQUE SPECIFICATIONS***

**8MM X 1.25 HEX HEAD BOLTS**

**22 – 24 FT-LB**

### **WARNING:**

1. Do not over-tighten the rocker bolts
2. Do not degrease rockers and/or run without proper lubrication
3. Do not allow pushrods to come in contact with cylinder head
4. Do not run with rough or damaged pushrod tips

## Limited Warranty

PRW warrants that all of its products are free from defects in material and workmanship, and against excessive wear for a period of (1) one year from the date of purchase. This limited warranty shall cover the original purchaser.

PRW's obligation under this warranty is limited to the repair or replacement of its product. To make a warranty claim, the part must be returned within (1) one year of purchase to the address listed below, freight prepaid. Items covered under warranty will be returned to you freight collect.

It is the responsibility of the installer to ensure that all of the components are correct before installation. PRW assumes no liability for any errors relative to tolerances, component selection, or installation.

There is absolutely no warranty on the following:

- i. Any parts used in racing applications, or;
- ii. Any product that has been physically altered, improperly installed or maintained, or;
- iii. Any product used in improper applications, abused, or not used in conjunction with the proper parts.

There are no implied warranties of merchantability or fitness for a particular purpose and no warranties which extend beyond the description of the face hereof.

PRW will not be responsible for incidental and consequential damages, property damage or personal injury damages to the extent permitted by law. Where required by law, implied warranties or merchantability and fitness are limited for a term of (1) one year from the date of original purchase. This warranty may give you specific legal rights. You may also have other legal rights, which vary from state to state.