

## VALVE LASH ADJUSTMENT

### 2003-2007 CUMMINS 5.9L

**Note: To obtain accurate readings, valve lash measurement and adjustments should only be performed when the engine coolant temperature is less than 60 degrees C (140 degrees F).**

- (1) Disconnect negative battery cables
- (2) Remove cylinder head cover.
- (3) Using the crank shaft bearing tool #7471-B (recommended by Cummins), rotate crankshaft to align damper TDC mark to 12:00 o'clock position.
  - a. If both number 1 cylinder rocker levers are loose, continue to next step.
  - b. If both number one rocker levers are not loose, rotate crankshaft 360 degrees.
- (4) With the engine in this position, valve lash can be measured at the following rocker arms: **Intake 1-2-4 / Exhaust 1-3-5**. Measure the valve lash by inserting a feeler gauge between the rocker arm socket and crosshead. Refer to VALVE LASH LIMIT CHART for the correct specifications. If the measurement falls within the limits, adjustment/resetting is not necessary. If measurement finds the lash outside of the limits, adjustment is required.

#### VALVE LASH LIMIT CHART

INTAKE	EXHAUST
<b>0.152 mm (0.006 in.) MIN.</b>	<b>0.381 mm (0.015 in.) MIN.</b>
<b>0.381 mm (0.015 in.) MAX.</b>	<b>0.762 mm (0.030 in.) MAX.</b>
<b>Note: If measured valve lash falls within these specifications, no adjustment is necessary. Engine operation within these ranges has no adverse affect on performance, emissions, fuel economy or level of engine noise.</b>	

- (5) If adjustment is required, loosen the lock nut on the rocker arms and turn the adjusting screw until the desired lash is obtained:
  - Intake** 0.254 mm (0.010 in.)
  - Exhaust** 0.508 mm (0.020 in.) Tighten the lock nut to 24 N.m (18 ft. lbs) and recheck the valve lash.
- (6) Using the crankshaft bearing tool, rotate the crankshaft one revolution to align the damper TDC mark to the 12:00 o'clock position.
- (7) With the engine in this position, valve lash can be measured at the remaining rocker arms: **Intake 3-5-6 / Exhaust 2-4-6**. Use the same method as above for determining whether adjustment is necessary, and adjust those that are found to be outside of the limits.
- (8) Install the cylinder head cover.
- (9) Connect the negative battery cables.