

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
0.152 mm (0.006 in.) MIN.	0.381 mm (0.015 in.) MIN.
0.381 mm (0.015 in.) MAX.	0.762 mm (0.030 in.) MAX.

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.

- (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.