

Detroit series 60 valve adjustment procedure

Detroit series 60 valve adjustment specs.

Accurate adjustment of the clearance between the valve buttons and the intake and exhaust valves is important if maximum performance are adjusted by an adjusting set screw and locknut located at the valve end of the rocker arm. See Figure "Valve Height Adjustment Components for the Series 60G Engine". Figure 1. Valve Height Adjustment Components for the engine over clockwise until one of the cylinders has the intake and exhaust cam follower rollers on the base circle of the camshaft. Adjust all four valves at this position. Continue barring the engine over until the next cylinder is in position. Follow the timing valve circle chart until all of the valves have been adjusted.

Figuiliares to aster this prope	NOTCE: The slave pister adjustment procedure must be strictly followed. Failure to use the proper adjustment procedure will result in poor engine brake performance, serious engine damage, or both.				
HOTE: Mayo piston clearance settings	for the different engine r	models are not the same.			
MODEL NUMBER OBPLACE-	EPICAPUE BPLACE	SLAVE PISTON ADJUSTMENT			
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11.11	e ² maketiki	10.6800 mint (0.00%) at.3			
ADD FLAGR, BOSTANAS, BORTLADD	(* 5×0×0	10.0000 mmm (0.0200 Av.)			

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Adjust all four valves at this position. Continue barring the engine over until the next cylinder is in position. Follow the timing valve circle chart for the Series 60G Engine". Figure 2. Timing Circle Chart for the Series 60G Engine Disconnect starting power for the engine. Remove the spark plug boots from the connection on the rocker cover. Remove the engine valve rocker cover; refer to "1.6 Rocker Cover". Insert a 3/4 in. drive breaker bar or ratchet into the square hole in the center of the crankshaft pulley. Bar the engine over until both the intake and exhaust cam rollers are on the base circle of the camshaft. Stop engine rotation. Note: The cylinder number. See Figure "Timing Circle Chart for the Series 60G Engine" and locate the cylinder. The timing circle can be started with any cylinder. Ensure the circle is completed to set all valves. To adjust the intake valves, insert a 0.279 mm (0.011 in.) feeler gage between the tip of the valve stem and the valve button at the end of the rocker arm.

See Figure "Valve Clearance Adjustment Series 60G Engines" . 1. Feeler Gage 4. Wrench (9/16 in.) 2. Valve Button 5. Intake Valve Stem 3. Allen Wrench (3/16 in.) Figure 3. Valve Clearance Adjustment Series 60G Engines Loosen the locknut, and turn the adjusting set screw until the feeler gage produces an even or smooth pull between the valve stem and the valve button. Torque the locknut to 41-47 N·m (30-35 lb·ft), and remove the feeler gage. Insert the feeler gage to ensure that the adjustment did not change when the locknut was tightened. Readjust as necessary.

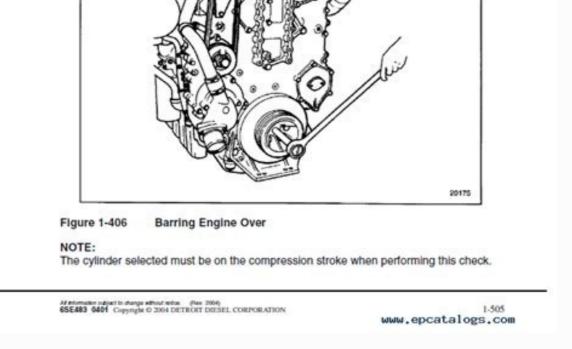


Adjust all four valves at this position. Continue barring the engine over until the next cylinder is in position. Follow the timing valve circle chart until all of the valves have been adjusted. See Figure "Timing Circle Chart for the Series 60G Engine". Figure 2. Timing Circle Chart for the Series 60G Engine Disconnect starting power for the engine. Remove the spark plug boots from the connection on the rocker cover. Remove the engine valve rocker cover; refer to "1.6 Rocker Cover". Insert a 3/4 in. drive breaker bar or ratchet into the square hole in the center of the crankshaft pulley. Bar the engine over until both the intake and exhaust cam rollers are on the base circle of the camshaft. Stop engine rotation. Note: The cylinder number. See Figure "Timing Circle Chart for the Series 60G Engine" and locate the cylinder.

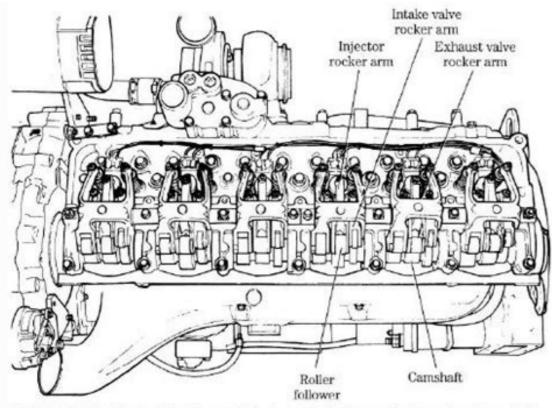
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The vertically aligned gear train, located at the front end of the engine in a gear case, contains drive gears for the lubricating oil pump, crankshaft, air compressor drive, fuel pump and alternator accessory drives. Intake and exhaust valve clearance and fuel injector height are adjusted by means of an adjusting set screw and locknut located at the valve end of the rocker arm. 1. Exhaust Valve 6. Intake Valve 7. Fuel Injector Follower 3. Locknut 8. Valve Button 4. Adjusting Set Screw 9. Exhaust Rocker Arm Assembly Adjust the detroit series 60 12.7 valves using the chart bellow.

1.24.	6.1 Testing of Camshaft Timing for Diesel Engines	
Check	the camshaft timing as follows:	
	NOTICE:	I
	The camshaft must be in time with the crankshaft. An engine which is "out of time" may result in pre-ignition, uneven running or a loss of power.	
1.	Remove the valve cover. Refer to section 1.6.2for one-piece rocker cove Refer to section 1.6.3 for two-piece rocker cover. Refer to section 1.6.5for rocker cover.	
2.	Select any cylinder for the timing check.	
3.	Remove the rocker arm assembly for the cylinder selected. Refer to section	n 1.3.2.
4.	Remove the injector for that cylinder. Refer to section 2.3.2.	
5.	Carefully slide a rod, approximately 304.8 mm (12 in.) long, through the injector tube hole until the end of the rod rests on top of the piston.	
6.	Using the 3/4 in. square drive hole in the center of the crankshaft pulley and a 3/4 in. drive breaker bar, turn the crankshaft slowly in the direction of engine rotation. See Figure 1-406. Stop when the rod reaches the end of its upward travel.	



Continue barring the engine over until the next cylinder is in position. Follow the timing valve circle chart until all of the valves have been adjusted. See Figure "Timing Circle Chart for the Series 60G Engine Disconnect starting power for the engine. Remove the spark plug boots from the connection on the rocker cover. Remove the engine valve rocker cover; refer to "1.6 Rocker Cover". Insert a 3/4 in. drive breaker bar or ratchet into the square hole in the center of the crankshaft pulley. Bar the engine over until both the intake and exhaust cam rollers are on the base circle of the camshaft. Stop engine rotation. Note: The cylinder number.



7-9 Detroit Diesel Series 60 valves and injectors actuate from a single overhead camshaft.

See Figure "Timing Circle Chart for the Series 60G Engine". Figure 2. Timing Circle Chart for the Series 60G Engine Disconnect starting power for the engine. Remove the spark plug boots from the connection on the rocker cover; refer to "1.6 Rocker Cover". Insert a 3/4 in. drive breaker bar or ratchet into the square hole in the center of the crankshaft pulley. Bar the engine over until both the intake and exhaust cam rollers are on the base circle of the camshaft. Stop engine rotation. Note: The cylinder number. See Figure "Timing Circle Chart for the Series 60G Engine" and locate the cylinder. The timing circle can be started with any cylinder.

Cylinder with Valve Overlap?	Set Valves on Cylinder No.?	Set Injector Height on Cylinder No.?
67	1?	5?
2?	5?	3?
4?	3?	6?
1?	6?	2?
5?	2?	4?
3?	4?	1?

Table 6. Valve Lash and Injector Height Adjustment Sequence

Timing Circle Chart for the Series 60G Engine Disconnect starting power for the engine. Remove the spark plug boots from the connection on the rocker cover; refer to "1.6 Rocker Cover". Insert a 3/4 in. drive breaker bar or ratchet into the square hole in the center of the crankshaft pulley. Bar the engine over until both the intake and exhaust cam rollers are on the base circle of the camshaft. Stop engine rotation. Note: The cylinder. The timing circle can be started with any cylinder. Ensure the circle is completed to set all valves. To adjust the intake valves, insert a 0.279 mm (0.011 in.) feeler gage between the tip of the valve stem and the valve button at the end of the rocker arm. See Figure "Valve Clearance Adjustment Series 60G Engines" . 1. Feeler Gage 4. Wrench (9/16 in.) 2. Valve Button 5. Intake Valve Stem 3. Allen Wrench (3/16 in.) Figure 3. Valve Clearance Adjustment Series 60G Engines Loosen the locknut, and turn the adjusting set screw until the feeler gage produces an even or smooth pull between the valve stem and the va gage to ensure that the adjustment did not change when the locknut was tightened. Readjust as necessary. The exhaust valves are adjusted the same way as the intake, two exhaust) for that cylinder before proceeding to the next step. See Figure "Timing Circle Chart for the Series 60G Engine" and note the cylinder number, in parentheses, directly under the cylinder that just received the valve adjustment. Accurate adjustment of clearance between valve buttons, intake and exhaust valves is important if maximum performance and economy are to be obtained. To ensure efficient engine performance and extended valve and injector heights on all Series 60 engines must be measured and, if necessary, adjusted at the initial period of 96,000 km (60,000 miles) or 24 months (Whichever comes first). Once the initial measurements and adjustments have been made, any adjustments beyond this point should be made only as required to maintain satisfactory engine performance. In this article i will show you how to adjust detroit series 60 12.7 valve adjustment chart. The Series 60® Diesel Engine uses an inline cast iron block and has a cast iron cylinder head that contains a single overhead camshaft. The camshaft actuates all the valves (two intake, two exhaust per cylinder), and operates the fuel injectors. The vertically aligned gear train, located at the front end of the engine in a gear case, contains drive gears for the lubricating oil pump, crankshaft, camshaft, air compressor drive, fuel pump drive, water pump and alternator accessory drives. Intake and exhaust valve clearance and fuel injector height are adjusted by means of an adjusting set screw and locknut located at the valve end of the rocker arm. 1. Exhaust Valve 6. Intake Valve 2. Intake Valve 7. Fuel Injector Follower 3. Locknut 8. Valve Button 4. Adjusting Set Screw 9. Exhaust Valve 5. Exhaust Valve 5. Exhaust Valve 5. Exhaust Valve 6. 12.7 valves using the chart bellow. Detroit Series 60 12.7 Valve Adjust the detroit series Chart from AERA Technical Detroit Series 60 12.7 Valve Adjustment Chart SUBJECT: SERIES 60 DIESEL VALVE LASH, JAKE BRAKE LASH AND CAMSHAFT TIMING SPECIFICATIONS PUBLICATION: DDC-SVC-MAN-0004-1207 (6SE483) SERIES 60 DIESEL VALVE LASH, JAKE BRAKE LASH AND CAMSHAFT TIMING SPECIFICATIONS The following specs have been changed in the Series 60 Diesel Valve Lash, Jake Brake Lash and Cam Timing Specs Table 1-50 and 1-51. Marine TK 12.7, Various years 🗆 Marine HK 14.0, Various years Accurate adjustment of clearance between valve and extended valve and injector service life, an initial valve lash and injector height measurement/adjustment requirement has been established. Effective immediately, the valve lash and injector heights on all Series 60 engines must be measure valve clearances and injector heights at the required initial period and make necessary adjustments may result in gradual degrading of engine performance and reduced fuel combustion efficiency. Engine Application Initial Valve Lash and Injector Height Measurement/Adjustment Period Vehicle Engines 96,000 km (60,000 miles) or 24 months (Whichever comes first) Table 2. Measurement/Adjustment Period Once the initial measurements and adjustments beyond this point should be made only as required to maintain satisfactory engine performance. Note: This is a change from the original recommendation, which required to maintain satisfactory engine performance. and injector heights at 190,000 km (120,000 miles). Note: On engines equipped with a Jake Brake®, measure valve lash and injector height before removing any brake housings. Only remove the brake housings necessary to provide access for adjustment. Intake and exhaust valve clearance and fuel injector height are adjusted by means of an adjusting set screw and locknut located at the valve end of the rocker arm. See Figure "Valve and Fuel Injector Rocker Arm Assembly Components". 1. Exhaust Valve 5. Exhaust Valve 6. Intake Valve 7. Fuel Injector Follower 3. Locknut 8. Valve and Fuel Injector Follower 3. Locknut 8. Valve and Fuel Injector Rocker Arm Assembly Figure 1. Valve and Fuel Injector Follower 3. Locknut 8. Valve 5. Exhaust Valve 5. Exhaust Valve 6. Intake Valve 7. Fuel Injector Follower 3. Locknut 8. Valve 6. Intake Valve 7. Fuel Injector Follower 7. Fuel Inj Fuel Injector Rocker Arm Assembly Components Note: Ensure the height gage seats on the machined surface with the tip in the pilot hole. Foreign material in the pilot hole or on the machined surface may prevent accurate setting of the injector height. The fuel injector height is measured using the required Injector Height Gage as listed in Table "Checking Tolerance Chart" . On engines equipped with a Jake Brake (), move the handle on the injector height gage to the alternate position, 90 degrees to the machined surface contacted by the injector clamp near the solenoid. See Figure "Using Timing Gage on DDEC II, DDEC III, and DDEC IV". Figure 2. Using Timing Gage on DDEC II, DDEC III, and DDEC IV Components ‡ Setting Dimensions Tolerance † FUEL INJECTOR HEIGHTS Models: 6067GU40, 6063WU00, 6063GU00,6067WU60, 6067GU60, 6067GU60, 6067GU91 (All DDEC II / 1986 - 1993) 78.2 mm (3.079 in.) Use tool J-35637-A 77.95 - 78.45 mm (3.069 - 3.089 in.) FUEL INJECTOR HEIGHTS Models: 6064TKXX, 6063EKXX, 606XGKXX, 606X DDEC IV and later 1997 DDEC III) 80.3 mm (3.161 in.)Use tool J-42665 47J cam 80.05 - 80.55 mm (3.152 - 3.171 in.) FUEL INJECTOR HEIGHTS Models: 606XHKXX, 60 INJECTOR HEIGHTS Models: § 6067BKXX, MKXX, HKXX 6067MKXX 6067MKXX 6067MKXX 6067MKXX 6067MKXX 6067MKXX 82.1 mm (3.23 in.) Use tool J-45002 w/107J cam on off-highway units only 0.8128 in.) Use tool J-45002 w/107J cam on off-highway units only 0.8128 mm (0.032 in.) FUEL INJECTOR HEIGHTS Models: 6062HKXX, 6062TKXX (2000-2003) 81.0 mm (3.189 in.) 80.75 - 81.25 mm 3.179 - 3.199 in.) INTAKE VALVE CLEARANCE - * "U" Models: 6067GT40, 6067WU40, 6067GU40, 6063XX00, (1986 - 1990 All DDEC I & Early DDEC II) 0.508 mm(0.020 in.) 0.432 - 0.584 mm(0.017 - 0.023 in.) EXHAUST VALVE CLEARANCE - * "H" Models: 606XWUXX, 606XXKXX, (1991 - 1999 All DDEC IV, III and later DDEC II) 0.660 mm(0.026 in.) 0.584 - 0.736 mm(0.023 - 0.029 in.) EXHAUST VALVE CLEARANCE - * "H" Models: 6062HKXX, 6062TKXX (2000 - 2003) 0.711 mm (0.028 in.) 0.635 - 0.787 mm (0.025 - 0.031 in.) Table 4. Checking Tolerance Chart *"H" valves have a machined identification ring above the valve lock groove. "U" valves do not. Refer to section 1.4 for valve identification.

+ When setting injector heights or valve clearances, the component should be set to the "Setting Dimension" shown. ‡ XX Any character in these positions, set to the adjacent column.

§ Check option label on valve cover for correct setting. Note: When setting valve lash clearance or injector height, always set them to the dimension listed in Table "Checking Tolerance Chart". Adjust the valves and set the fuel injector heights as follows: Disconnect starting power for engine. Remove the engine valve rocker cover as outlined. Refer to "1.6.2 Removal and Cleaning of One-piece Rocker Cover For Diesel Engines Only" for two-piece Rocker cover, and refer to "1.6.5 Removal and Cleaning of Three-piece Rocker Cover" for three-piece rocker cover.

Insert a 3/4 in. drive breaker bar or ratchet into the square hole in the center of the crankshaft pulley. Bar the engine in the direction of rotation and observe the intake and exhaust valves of rotation and observe the intake and exhaust valves almost completely closed. Just as the exhaust valves are closing, the intake valves will start to open. This is the valve overlap period. 1. Exhaust Valve Rocker Arm Assembly 5. Cylinder Head 3. Camshaft 6. Intake Rocker Arm Assembly Figure 3. Valve Overlap Period Stop engine rotation at the time of valve overlap. Note which cylinder this is, and follow the sequence listed in Table "Valve Lash and Injector Heights. The timing can be started with any cylinder in valve overlap.

Cylinder with Valve Overlap Set Valves on Cylinder No. Set Injector Height on Cylinder No. 6 1 5 2 5 3 4 3 6 1 6 2 5 2 4 3 4 1 Table 6. Valve Lash and Injector Height Adjustment Sequence Never set the valves and injector of the same cylinder at the same time.

Doing this will result in engine damage. To adjust the intake valves, insert a 0.203 mm (0.008 in.) feeler gage between the tip of the valve stem and the valve Adjustment". 1. Intake Valve Adjustment". 1. Intake Valve Adjustment Cosen the locknut 2. Valve Button 5. Feeler Gage 3. Intake Rocker Arm Assembly 6. Tip of Intake Valve Figure 4. Intake Valve Adjustment Loosen the locknut, and turn the adjusting set screw until the feeler gage produces an even smooth pull between the valve stem and valve button. Torque the locknut to 41 - 47 N·m (30 - 35 lb·ft) and remove the feeler gage to ensure that the adjustment did not change when the locknut was tightened. Readjust as necessary.

The exhaust valves are adjusted the same way as the intake valves, except use a 0.660 mm (0.026 in.) feeler gage (1991 and later models only). Early models (pre-1991 models (pre-1991 models) use 0.508 mm (0.020 in.) feeler gage as listed in Table "Checking Tolerance Chart". See Figure "Exhaust Valve Adjustment". 1. Location of Identification Groove 5. Locknut 2. Valve Button 6. Exhaust Rocker Arm Assembly 3. Allen Wrench 7. Feeler Gage 4. Adjusting Screw 8. Tip of Exhaust Valve Adjustment Note: Effective with all 1991 models (pre-1991 models) use 0.508 mm (0.020 in.) feeler gage (as listed in Table "Checking Tolerance Chart". See Figure "Exhaust Valve Adjustment". 1. Location of Identification Groove 5. Locknut 2. Valve Button 6. Exhaust Rocker Arm Assembly 3. Allen Wrench 7. Feeler Gage 4. Adjusting Screw 8. Tip of Exhaust Valve Adjustment Note: Effective with all 1991 models (pre-1991 models) use 0.508 mm (0.020 in.) feeler gage as listed in Table "Checking Tolerance Chart". See Figure "Exhaust Valve Adjustment". 1. Location of Identification Groove 5. Locknut 2. Valve Button 6. Exhaust Rocker Arm Assembly 3. Allen Wrench 7. Feeler Gage 4. Adjusting Screw 8. Tip of Exhaust Valve Adjustment Note: Effective with all 1991 models (pre-1991 models) use 0.508 mm (0.020 in.) feeler gage as listed in Table "Checking Tolerance Chart". For natural gas applications. After each set of intake and exhaust valves is adjusted, adjust the corresponding injector Height Adjustment Sequence". Injector height settings and tools are listed in Table "Checking Tolerance Chart". For natural gas applications the valves are adjusted the same way as on the diesel engine, except that a 0.036 in. (0.914 mm) feeler gage is used for exhaust valves and a 0.011 in. (0.279 mm) feeler gage is used for intake valves. Adjust the fuel injector height for the engine models in parentheses by placing the small end of the height gage in the hole provided in the fuel injector body, with the fiel of the gage toward the fuel injector plunger. See Figure

Torque the locknut to 41 - 47 N·m (30 - 35 lb·ft). Check the adjustment with the height gage and, if necessary, readjust the set screw. Remove the height gage. See Figure "Fuel Injector Height Adjustment" . 1. Height Gage Flag 4.

Set Screw 2. Height Gage 5. Locknut 3. Allen Wrench (3/16") 6. Fuel Injector Follower Figure 6. Fuel Injector Height Adjustment Refer to the adjustment Sequence listed in Table "Valve Lash and Injector Height Adjustment Sequence listed in Table "Valve Lash and Injector Height Adjustment Sequence listed in Table "Valve Lash and Injector Height Adjustment Sequence" and proceed to the next cylinder in the adjustment sequence. Bar the engine over in the direction of normal rotation until the next cylinder in the adjustment sequence is in its valve overlap period. Repeat the valve adjustment and fuel injectors have been adjusted. Replace the engine rocker cover. Reconnect starting power to the engine.

Adjust the valves and N3 fuel injector settings as follows : Disconnect starting power for engine. Remove the engine valve rocker cover as outlined.

Refer to "1.6.2 Removal and Cleaning of One-piece Rocker Cover For Diesel Engines Only" for one-piece Rocker Cover For Diesel Engines Only" for two-piece Rocker Cover For Diesel Engines Only "for two-piece Rocker Cover For Diesel Engines Only" for two-piece Rocker Cover For Diesel Engines Only "for two-piece Rocker Cover For Diesel Engines Only" for two-piece Rocker Cover For Diesel Engines Only "for two-piece Rocker Cover For Diesel Engines Only" for two-piece Rocker Cover For Diesel Engines Only "for two Poice Rocker Cover" for two Rocker Arm Assembles Rocker Arm Assemble Rochore D

Section 13.2.¹ Slave Piston Adjustment [Jake Brake® Lash) Refer to information listed in Table ⁴Jake Brake® Models and Slave Piston Settings" for the correct slave piston adjustment specification. The slave piston adjustment procedure will result in poor engine brake performance, serious engine damage, or both. Note: Slave piston learne settings for the different engine models are not the same. MODEL NUMBER/JISPLACEMENT/MODEL YEAR ENGINE BRAKE SLAVE PISTON ADJUSTMENT 6067WU40 11.1L 1991 - 97 7610.0660 mm (0.026 in.) 6067CU40 12.7L 1991 - 93 765 0.660 mm (0.026 in.) 6067CU40 12.7L 1994 - 97 765 0.660 mm (0.026 in.) 6067KK0 11.1L 1994 - 97 7610.0.660 mm (0.026 in.) 6067KK0 11.1L 1994 - 97 7610.0.660 mm (0.026 in.) 6067KK0 12.7L 1998 DDEC IV 765 0.660 mm (0.026 in.) 6067KK0 11.1L 1994 - 97 7610.0.660 mm (0.026 in.) 6067KK0 12.7L 1998 DDEC IV 765 0.660 mm (0.026 in.) 6067KK0 12.7L 1998 DDEC IV 765 0.660 mm (0.026 in.) 6067KK0 12.7L 1998 DDEC IV 760 0.584 mm (0.023 in.) 6067KK0 0.026 in.) 6067KK0 0.020 in.

Figure 10. Adjusting Leveling Screw Hold the leveling screw in this position and torque the locknut to 47 N·m (35 lb·ft). Repeat the adjustment procedures in steps 1 through 6 for the remaining cylinders. Rotate the engine when necessary to put the exhaust valves in the closed position for slave piston adjustment. Adjust Model 790/795 Jake Brake® slave piston lash as follows: Turn in the adjusting screw until the solid side of the slave piston bridge assembly, contacts the exhaust valve and the valve springs begin to compress, then turn in one additional turn. Note: Wait at least 30 seconds for oil to be purged from the J-Lash adjusting screw. If oil is below room temperature (below 16 °C [60°F]), wait at least two minutes for oil to be purged from the J-Lash adjusting screw. Serious engine damage may occur from improper lash setting. Using a 3/16 in. hex wrench, back out the adjusting screw ONLY until the correct size feeler gage (listed in Table "Jake Brake® Models and Slave Piston Settings") can be inserted between the solid side of the slave piston bridge assembly and the exhaust valve. See Figure "Setting Slave Piston Lash" 1. J-Lash Adjusting Screw 3. Exhaust Valve Spring 2. Slave Piston Lash" 1. J-Lash Adjusting screw so that a light drag on the feeler gage. Use a screwdriver to hold the adjusting screw in place and torque the lock nut to 38 N·m (28 lb·ft). See Figure "Setting Slave Piston Lash" . Note: If the J-Lash adjusting screw in place and torque the lock nut to 38 N·m (28 lb·ft). Recheck lash setting is incorrect, repeat step 1 through step 3 . Note: For Model 795 applications, skip to step 4 . Hold the solid adjustment solid adjustments for engines using J-Lash[™] adjusting screws. This is due to oil retained in the J-Lash[™] adjusting screw.

If unsure of the adjustment, repeat step 1 and step 4. Repeat step 1 through step 5 for the remaining slave piston on the same cylinders. EYE INJURY To avoid injury from oil spray, wear adequate eye protection (face shield or safety goggles) when performing the oil test procedure. FIRE To avoid injury from fire, contain and eliminate leaks of flammable fluids as they occur. Failure to eliminate leaks could result in fire. Install all remaining components that were removed for this procedure. Note: Ensure that all wires are away from moving parts. Complete the installation by installing the rocker cover. Refer to "1.6 Rocker Cover". Start and drive the vehicle to verify proper Jake Brake® performance.