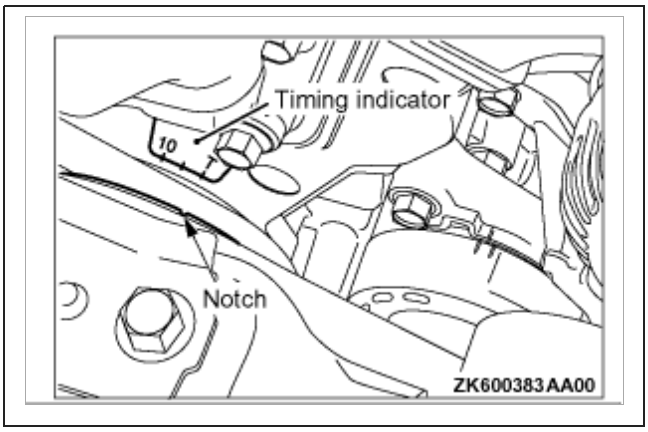
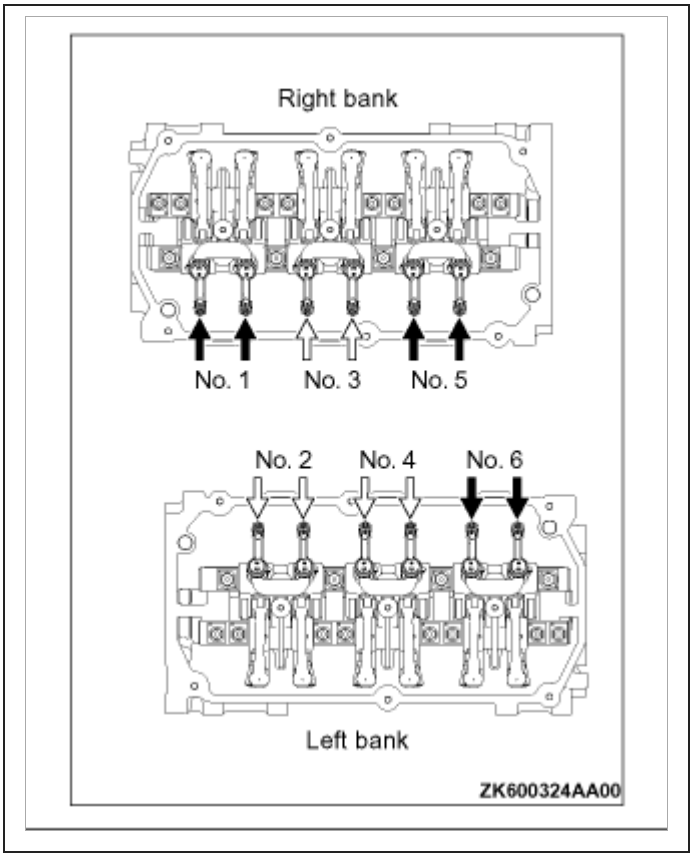
2007 Mitsubishi Truck Outlander 4WD V6-3.0L (6B31)

VALVE CLEARANCE CHECK AND ADJUSTMENT

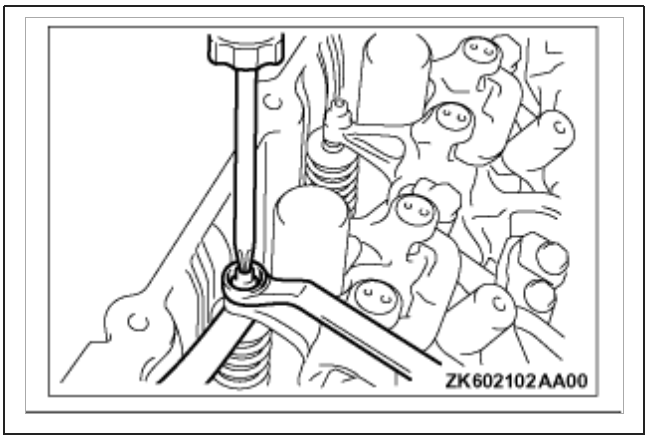
1. Before inspection, set the vehicle in the following condition:
    - Engine coolant temperature: **80 - 95°C (176 - 203°F)**
2. Remove all of the ignition coils.
3. Remove the rocker cover.



4. Turn the crankshaft clockwise until the notch on the pulley is lined up with the "T" mark on the timing indicator.



5. Move the rocker arms on the No.1 and No.4 cylinders up and down by hand to determine which cylinder has its piston at the top dead center on the compression stroke. If both intake and exhaust valve rocker arms have a valve lash, the piston in the cylinder corresponding to these rocker arms is at the top dead center on the compression stroke.
6. Valve clearance inspection and adjustment can be performed on rocker arms indicated by white arrow mark when the No.1 cylinder piston is at the top dead center on the compression stroke, and on rocker arms indicated by black arrow mark when the No.4 cylinder piston is at the top dead center on the compression stroke.



7. Measure the valve clearance for intake side. If the valve clearance is not as specified, loosen the rocker arm lock nut and adjust the clearance using a thickness gauge while turning the adjusting screw.

Standard value (hot engine): **0.20 mm (0.008 inch)**

NOTE: Valve clearance check and adjustment is unnecessary for exhaust side due to auto lash adjuster installed.

8. While holding the adjusting screw with a screwdriver to prevent it from turning, tighten the lock nut to the specified torque. Tightening torque: **9 ±1 Nm (80 ±9 in-lb)**
9. Turn the crankshaft **360 degrees** to line up the notch on the crankshaft pulley with the "T" mark on the timing indicator.
10. Repeat steps (7) and (8) on other valves for clearance adjustment.
11. Install the rocker cover.
12. Install the ignition coils.