

Jeep Commander 2006-2010 Workshop Manual

MANIFOLD - INTAKE

DESCRIPTION

The intake manifold is made of a composite material and features long runners which maximize flow and torque. The intake manifold uses single plane seating which consist of eight individual gaskets in place port gaskets to prevent leaks.

DIAGNOSIS AND TESTING - INTAKE MANIFOLD LEAKAGE

An intake manifold air leak is characterized by lower than normal manifold vacuum. Also, one or more cylinders may not be functioning.

WARNING: USE EXTREME CAUTION WHEN THE ENGINE IS OPERATING. DO NOT STAND IN A DIRECT LINE WITH THE FAN. DO NOT PUT YOUR HANDS NEAR THE PULLEYS, BELTS OR THE FAN. DO NOT WEAR LOOSE CLOTHING.

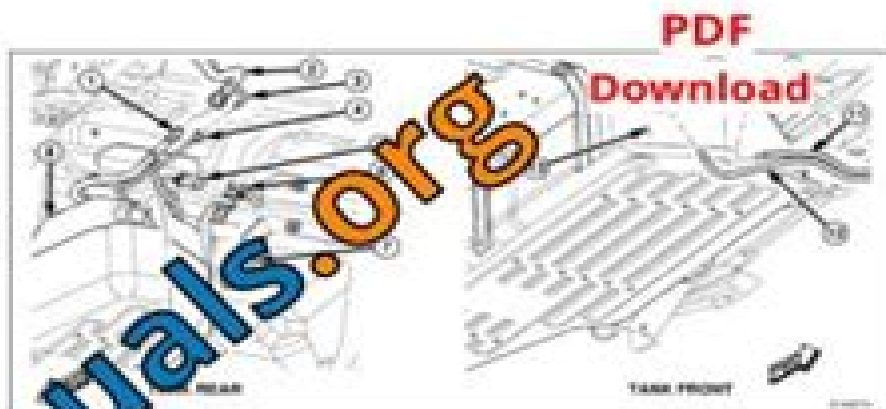
1. Start the engine.
2. Spray a small stream of water at the suspected leak area.
3. If a change in RPM is observed the area of the suspected leak has been found.
4. Repair as required.

REMOVAL

1. Remove engine cover (7).
2. Drain fuel system (Refer to 14 - FUEL SYSTEM/ FUEL DELIVERY - STANDARD PROCEDURE).
3. Disconnect negative cable from battery.
4. Remove air duct hose.
5. Remove spark wires from on top of intake manifold.



6. Disconnect electrical connectors for the following:
 - Manifold Absolute Pressure (MAP) sensor
 - Fuel Injection
 - ETC (Electric Throttle Control)
7. Remove wire harness (8).
8. Disconnect intake hoses (9), air filter hose, and MAF hose (Make Up Air Hose).
9. Remove EGR valve (10).
10. Remove mounting fasteners in a clockwise pattern starting from the outside bolts and ending at the middle bolt (11).
11. Remove intake manifold as an assembly.



12. Disconnect fuel pump module electrical jumper connector (5) from body connector (6).
13. Disconnect fuel rail (2) and (3) from lines (1) and (4).
14. From front of tank, disconnect fuel and EGRP lines (5) and (10) from lines (11) and (12).



15. Remove bolts (1) and (2) at right side of fuel tank.
16. Remove bolts (3) at left side of fuel tank.
17. Lower tank for removal.
18. If fuel tank is to be replaced, remove fuel pump module from tank. (Refer to 14 - FUEL SYSTEM/ FUEL DELIVERY/ FUEL PUMP MODULE - REMOVAL).

Jeep Commander Manual

Xiaolong Qi



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