

27. Any necessary wiring.
28. Coolant sensor, refer to DRIVEABILITY AND EMISSIONS (SECTION 6E3-C1).
29. Fuel lines at bracket.
30. Throttle body heater hose.
31. Heater pipe at intake.
32. Intake manifold bolts.

Important

- Retain Belleville washers in same orientation on 4 center bolts.
33. Loosen rocker arms.
 34. Pushrods.
 - Intake and exhaust pushrods are different lengths with the exhaust pushrod being the longer of the two. Intake pushrods are marked orange; and are 6 inches long; exhaust pushrods are marked blue and are 6-3/8 inches long.
 35. Intake gasket.

Inspect

- Flatness of inlet flanges.

Clean

- Gasket material from mating surfaces.
- Excess RTV sealant from front and rear ridges of cylinder.
- Block.
- Sealing surfaces with degreaser.

Install or Connect

1. Place a 2-3 mm bead of GM RTV sealer P/N 1052917 or equivalent on each ridge where the front and rear of the intake manifold contact the block.
2. Intake manifold gasket.
3. Pushrods.
 - Intake pushrods are marked orange and are 6 inches long.
 - Exhaust pushrods are marked blue and are 6 3/8 inches long.
 - Make sure pushrods seat in lifter.
4. Rocker arm nuts.

Tighten

- Rocker arm nuts to 25 N•m (18 lb. ft.).
5. Intake manifold.
 6. Intake manifold bolts.

Tighten

- Intake manifold bolts in proper sequence, refer to Figure 15.

7. Heater pipe to manifold.
8. Throttle body heater hose.
9. Coolant sensor, refer to DRIVEABILITY AND EMISSIONS (SECTION 6E3-C1).
10. Any necessary wiring.
11. Upper radiator hose.
12. Rear valve cover, refer to "Valve Cover" in this section.
13. Generator bracket, refer to CHARGING SYSTEM (SECTION 6D3).
14. Generator brace, refer to CHARGING SYSTEM (SECTION 6D3).
15. PCV hose.
16. Front valve cover, refer to "Valve Cover" in this section.
17. Heater pipe at water pump and cylinder head.
18. Plug wires.
19. Fuel rail, refer to DRIVEABILITY AND EMISSIONS (SECTION 6E3-C2).
20. Wires at injectors.
21. Power steering pump, refer to POWER STEERING GEAR AND PUMP (SECTION 3B1).
22. Power steering line at generator bracket.
23. Generator, refer to CHARGING SYSTEM (SECTION 6D3).
24. Fuel lines to fuel rail, refer to ENGINE FUEL (SECTION 6C).
25. Fuel lines at bracket.
26. Serpentine belt, refer to "Serpentine Drive Belt" in this section.
27. Plenum, refer to DRIVEABILITY AND EMISSIONS (SECTION 6E3-C2).
28. Plug harness.
29. EGR valve, refer to DRIVEABILITY AND EMISSIONS (SECTION 6E3-C7).
30. Throttle body, refer to DRIVEABILITY AND EMISSIONS (SECTION 6E3-C2).
31. Air intake duct.
32. Cable bracket.
33. Brake vacuum pipe.
34. Cables to throttle body.
35. Fill cooling system. Refer to COOLING AND RADIATOR (SECTION 6B).
36. Negative battery cable.
37. Air cleaner assembly.

Inspect

- Proper fluid levels.
- Leaks.
- Completion of repair.