

Chevrolet Optra 2002-2008 Workshop Manual



12. Remove the alternator. Refer to Section 10, Engine Electrical.
13. Remove the intake manifold support bracket.



14. Remove the intake manifold retaining bolts/nuts in the sequence shown.
15. Remove the intake manifold and gasket.
16. Clean the seating surfaces of the intake manifold and the cylinder head.



Installation Procedure

1. Install the fuel cap.
Tighten
Tighten the fuel cap bolts to 25 ft-lb (34 Nm).
2. Install the new intake manifold.
Tighten
Tighten the intake manifold bolts and nuts to 25 ft-lb (34 Nm).



3. Install the exhaust gas recirculation (EGR) pipe.
Tighten
Tighten the exhaust gas recirculation (EGR) pipe bolts to 15 ft-lb (20 Nm).

COMPONENT LOCATOR

CYLINDER HEAD

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|------------------------------|---------------------------------------|
| 1. Oil Filter Cap | 16. Cylinder Head |
| 2. Engine Cover | 17. Power Camshaft Cap |
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| 4. Camshaft Cover Gasket | 19. Plug |
| 5. Camshaft Cover Bolt | 20. Pressure Plug |
| 6. Hydraulic Tappet Adjuster | 21. Oil Drain Cap |
| 7. Valve Key | 22. Intake Valve |
| 8. Valve Spring Cap | 23. Exhaust Valve |
| 9. Valve Spring | 24. Cylinder Head Gasket |
| 10. Valve Stem Seal | 25. Engine Coolant Temperature Sensor |
| 11. EGR Vacuum Hose | 26. Heat Take Off Pipe |
| 12. EGR Valve | 27. Camshaft |
| 13. EGR Valve Gasket | 28. Camshaft Seal |
| 14. EGR Valve Adapter | 29. Thermostat |
| 15. EGR Valve Adapter Gasket | |

Engine Maintenance Manual Optra

Christian Drosten



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