

# 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 rail.
- Tighten**  
Tighten the fuel rail bolts to 25 ft-lb (34 Nm).
2. Install the new intake manifold and gasket.
- Tighten**  
Tighten the intake manifold bolts and nuts to 25 ft-lb (34 Nm).



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

## COMPONENT LOCATOR

### CYLINDER HEAD

PDF

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1. Oil Filter Cap
2. Engine Cover
3. Camshaft Cover
4. Camshaft Cover Gasket
5. Camshaft Cover Bolt
6. Hydraulic Tappet Adjuster
7. Valve Key
8. Valve Spring Cap
9. Valve Spring
10. Valve Stem Seal
11. EGR Valve Hose
12. EGR Valve
13. EGR Valve Gasket
14. EGR Valve Adapter
15. EGR Valve Adapter Gasket

16. Cylinder Head
17. Power Camshaft Cap
18. Valve Guide
19. Plug
20. Pressure Plug
21. Oil Drain Cap
22. Intake Valve
23. Exhaust Valve
24. Cylinder Head Gasket
25. Engine Coolant Temperature Sensor
26. Heat Take Off Pipe
27. Camshaft
28. Camshaft Seal
29. Thermostat

# Engine Maintenance Manual Optra

**Siddappa N.Byrareddy**



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