



Fig. 55 V8 Normally Aspirated Engine — sensor and actuator location

Key to Fig. 55

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| 1. On-plug ignition coil with integrated amplifier | 11. Oil control solenoid — variable valve timing |
| 2. Fuel injector | 12. Mass air flow sensor with integrated intake air temperature sensor |
| 3. Engine fuel temperature sensor | 13. Engine coolant temperature sensor |
| 4. Camshaft position sensor | 14. Throttle position sensor |
| 5. Manifold absolute pressure sensor | 15. Throttle motor |
| 6. Crankshaft position sensor | 16. Exhaust gas recirculation valve |
| 7. Heated oxygen sensor 1 | 17. Fuel pressure sensor |
| 8. Heated oxygen sensor 2 | 18. Knock sensor |
| 9. Engine oil pressure switch | |
| 10. Engine oil temperature sensor | |