

Troubleshooting Engine Performance

Problem	Cause	Solution
Faulty acceleration (cont.)	<ul style="list-style-type: none"> • Improper feedback system operation 	<ul style="list-style-type: none"> • Refer to Chapter 4
Faulty high speed operation	<ul style="list-style-type: none"> • Incorrect ignition timing • Faulty advance mechanism • Low fuel pump volume • Wrong spark plug air gap or wrong plug • Partially restricted exhaust manifold, exhaust pipe, catalytic converter, muffler, or tailpipe • Restricted vacuum passages • Restricted air cleaner • Faulty distributor rotor or cap • Faulty ignition coil • Improperly seated valve(s) • Faulty valve spring(s) • Incorrect valve timing • Intake manifold restricted • Worn distributor shaft • Improper feedback system operation 	<ul style="list-style-type: none"> • Adjust timing (if possible) • Check advance mechanism and repair as necessary (Distributor systems only) • Replace fuel pump • Adjust air gap or install correct plug • Eliminate restriction • Clean passages • Cleaner or replace filter element as necessary • Replace rotor or cap (Distributor systems only) • Test coil and replace as necessary • Test cylinder compression, repair as necessary • Inspect and test valve spring tension, replace as necessary • Check valve timing and repair as necessary • Remove restriction or replace manifold • Replace shaft (Distributor systems only) • Refer to Chapter 4
Misfire at all speeds	<ul style="list-style-type: none"> • Faulty spark plug(s) • Faulty spark plug wire(s) • Faulty distributor cap or rotor • Faulty ignition coil • Primary ignition circuit shorted or open intermittently • Improperly seated valve(s) • Faulty hydraulic tappet(s) • Improper feedback system operation • Faulty valve spring(s) • Worn camshaft lobes • Air leak into manifold • Fuel pump volume or pressure low • Blown cylinder head gasket • Intake or exhaust manifold passage(s) restricted 	<ul style="list-style-type: none"> • Clean or relace spark plug(s) • Replace as necessary • Replace cap or rotor (Distributor systems only) • Test coil and replace as necessary • Troubleshoot primary circuit and repair as necessary • Test cylinder compression, repair as necessary • Clean or replace tappet(s) • Refer to Chapter 4 • Inspect and test valve spring tension, repair as necessary • Replace camshaft • Check manifold vacuum and repair as necessary • Replace fuel pump • Replace gasket • Pass chain through passage(s) and repair as necessary
Power not up to normal	<ul style="list-style-type: none"> • Incorrect ignition timing • Faulty distributor rotor 	<ul style="list-style-type: none"> • Adjust timing • Replace rotor (Distributor systems only)