

Troubleshooting Engine Performance (cont.)

Problem	Cause	Solution
Rough idle or stalling	<ul style="list-style-type: none"> • Incorrect curb or fast idle speed • Incorrect ignition timing • Improper feedback system operation • Improper fast idle cam adjustment • Faulty EGR valve operation • Faulty PCV valve air flow • Choke binding • Faulty TAC vacuum motor or valve • Air leak into manifold vacuum • Improper fuel level • Faulty distributor rotor or cap • Improperly seated valves • Incorrect ignition wiring • Faulty ignition coil • Restricted air vent or idle passages • Restricted air cleaner • Faulty choke vacuum diaphragm 	<ul style="list-style-type: none"> • Adjust curb or fast idle speed • Adjust timing to specification • Refer to Chapter 4 • Adjust fast idle cam • Test EGR system and replace as necessary • Test PCV valve and replace as necessary • Locate and eliminate binding condition • Repair as necessary • Inspect manifold vacuum connections and repair as necessary • Adjust fuel level • Replace rotor or cap • Test cylinder compression, repair as necessary • Inspect wiring and correct as necessary • Test coil and replace as necessary • Clean passages • Clean or replace air cleaner filter element • Repair as necessary
Faulty low-speed operation	<ul style="list-style-type: none"> • Restricted idle transfer slots • Restricted idle air vents and passages • Restricted air cleaner • Improper fuel level • Faulty spark plugs • Dirty, corroded, or loose ignition secondary circuit wire connections • Improper feedback system operation • Faulty ignition coil high voltage wire • Faulty distributor cap 	<ul style="list-style-type: none"> • Clean transfer slots • Clean air vents and passages • Clean or replace air cleaner filter element • Adjust fuel level • Clean or replace spark plugs • Clean or tighten secondary circuit wire connections • Refer to Chapter 4 • Replace ignition coil high voltage wire • Replace cap
Faulty acceleration	<ul style="list-style-type: none"> • Improper accelerator pump stroke • Incorrect ignition timing • Inoperative pump discharge check ball or needle • Worn or damaged pump diaphragm or piston • Leaking carburetor main body cover gasket • Engine cold and choke set too lean 	<ul style="list-style-type: none"> • Adjust accelerator pump stroke • Adjust timing • Clean or replace as necessary • Replace diaphragm or piston • Replace gasket • Adjust choke cover

Basic Diesel Engine Troubleshooting

O García



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