TROUBLESHOOTING

Problem	Possible cause	Remedy	Page
Engine overheats	Cooling system faulty Incorrect ignition timing	Troubleshoot cooling system Reset timing	CO-4
Engine will not crank or cranks slowly	Starting system faulty	Troubleshoot starting system	ST-2
Engine will not start/hard to start (cranks OK)	Vacuum leaks PCV hoses EGR valve Intake manifold Air intake chamber Throttle body ISC valve Pulling in air between air flow meter and	Repair as necessary Repair as necessary	FI-66, 68
	throttle body Ignition problems	Perform spark test	IG-5
	No fuel supply to injector No fuel in tank Fuel pump not working Fuel filter clogged Fuel line clogged or leaking EFI system problems	Inspect wiring Troubleshoot EFI system	FI-7
	ISC system problems Spark plugs faulty Low compression	Repair as necessary Check ISC system Inspect plugs Check compression	FI-72 IG-6 EM-15
Rough idle, stalls or misses	Vacuum leaks	Repair as necessary Repair as necessary	FI-66, 68
	and throttle body Incorrect idle speed Incorrect ignition timing Ignition problems Ignition coil Igniter Distributor	Check ISC system Reset timing Perform spark test Inspect coil Inspect distributor Inspect wiring	FI-72
	Ignition wiring faulty EF I system problems Spark plugs faulty Engine overheats Low compression	Repair as necessary Inspect plugs Check cooling system Check compression	IG-6 CO-4 EM-15

TROUBLESHOOTING (Cont'd)

Problem	Possible cause	Remedy	Page
Problem Engine hesitates/poor acceleration	Vacuum leaks PCV hoses EGR valve Intake manifold Air intake chamber Throttle body ISC valve Pulling in air between air flow meter and throttle body Incorrect ignition timing Emission control system problems (cold engine) EGR system always on High-tension cord faulty Fuel system clogged Air cleaner clogged EFI system problems Spark plugs faulty Engine overheats Low compression	Remedy Repair as necessary Repair as necessary Reset timing Check EGR system Inspect cord Check fuel system Check air cleaner Repair as necessary Inspect plugs Check cooling system Check compression	Page FI-66, 68 IG-12 EC-10 FI-48 IG-6 CO-4 EM-15
Engine diesels (runs after ignition switch is turned off) Muffler explosion (after fire) on	EFI system problems Deceleration fuel cut system always off	Repair as necessary Check EFI (fuel cut) system	FI-88
Muffler explosion (after fire) all the time	Air cleaner clogged ER system problems Incorrect ignition timing	Check air cleaner Repair as necessary Reset timing	IG-12
Engine backfires	Vacuum leak	Check hoses and repair as necessary	VIDS PAR
	Pulling in air between air flow meter and throttle body EFI system problems Insufficient fuel flow Incorrect ignition timing Carbon deposits in combustion chambers	Repair as necessary Repair as necessary Troubleshoot fuel system Reset timing Inspect cylinder head	IG-12 EM-27
Excessive oil consumption	Oil leak PCV line clogged Piston rings worn or damaged	Repair as necessary Check PCV system Check rings	EC-4 EM-52

TROUBLESHOOTING (Cont'd)

Problem	Possible cause	Remedy	Page
Excessive oil consumption (cont'd)	Valve stem and guide worn Valve stem seal worn	Check valves Check seals	EM-27 EM-52
Excessive fuel consumption	Fuel leak Air cleaner clogged Incorrect ignition timing EF I system problems Injector faulty	Repair as necessary Check air cleaner Reset timing Repair as necessary	IG- 12
	Deceleration fuel cut system faulty Idle speed too high Spark plugs faulty EGR system always on Low compression Tires improperly inflated Brakes drag	Check ISC system Inspect plugs Check EGR system Check compression Inflate tires to proper pressure Troubleshoot brakes	FI-73 IG-6 EC-7 EM-15
Unpleasant odor	Incorrect idle speed Incorrect ignition timing Vacuum leaks PCV hoses EGR valve Intake manifold Air intake chamber Throttle body EFI system problems	Check ISC system Reset timing Repair as necessary Repair as necessary	FI-73 IG-12

