

Troubleshooting

Troubleshooting Guide

NOTE: Across each row in the chart, the systems that could be sources of a symptom are ranked in the order they should be inspected starting with ①. Find the symptom in the left column, read across to the most likely source, then refer to the page listed at the top of that column. If inspection shows the system is OK, try the next most likely system ②, etc.

PAGE	SYSTEM	PGM-FI									
		ENGINE CONTROL MODULE	HEATED OXYGEN SENSOR	MANIFOLD ABSOLUTE PRESSURE SENSOR	CRANKSHAFT POSITION/ CYLINDER POSITION SENSOR	ENGINE COOLANT TEMPERATURE SENSOR	THROTTLE POSITION SENSOR	INTAKE AIR TEMPERATURE SENSOR	BAROMETRIC PRESSURE SENSOR	IGNITION OUTPUT SIGNAL	VARIABLE VALVE TIMING & VALVE LIFT ELECTRONIC CONTROL SOLENOID VALVE
	SYMPTOM	11-42	11-48, 11-50	11-58	11-64	11-66	11-68	11-70	11-72	11-74	6-15
	MALFUNCTION INDICATOR LAMP* TURNS ON										
	MALFUNCTION INDICATOR LAMP BLINKS	1 or 5	1 or 2 or 41 or 42	3 or 5	4 or 54 or 9 or 99	6	7	10	13	15	21 or 91
	ENGINE WON'T START	③			③					①	
	DIFFICULT TO START ENGINE WHEN COLD	BU		③	③	①			③		
	IRREGULAR IDLING										
	WHEN COLD FAST IDLE OUT OF SPEC	BU				③					
	ROUGH IDLE	BU		③							
	WHEN WARM RPM TOO HIGH	BU									
	WHEN WARM RPM TOO LOW	BU									
	FREQUENT STALLING										
	WHILE WARMING UP	BU				③					
	AFTER WARMING UP	BU						③			
	POOR PERFORMANCE										
	MISFIRE OR ROUGH RUNNING	BU			③						
	FAILS EMISSION TEST	BU	③	②							
	LOSS OF POWER	BU		③			②				③

* If codes other than those listed above are indicated, count the number of blinks again. If the Malfunction Indicator Lamp is in fact blinking these codes, substitute a known-good ECM and recheck. If the indication goes away, replace the original ECM.

BU If the Malfunction Indicator Lamp is on while the engine is running, jump the service check connector. If no code is displayed (Malfunction Indicator Lamp stays on steady), the back-up system is in operation. Substitute a known-good ECM and recheck. If the indication goes away, replace the original ECM.

** USA: Malfunction Indicator Lamp (MIL) CANADA: Check Engine Light



PGM-FI						IDLE CONTROL		FUEL SUPPLY				INTAKE AIR	EMISSION CONTROL	
VARIABLE VALVE TIMING & VALVE LIFT ELECTRONIC CONTROL PRESSURE SWITCH	VEHICLE SPEED SENSOR	IGNITION TIMING ADJUSTER	KNOCK SENSOR	A/T FI SIGNAL A	A/T FI SIGNAL B	IDLE AIR CONTROL VALVE	OTHER IDLE CONTROLS	FUEL INJECTOR	FUEL METERING	FUEL PUMP	OTHER FUEL SUPPLY		EXHAUST GAS RECIRCULATION CONTROL SYSTEM	OTHER EMISSION CONTROLS
6-17(91-93)	11-76	11-78	11-80	11-82	11-82	11-88	11-84	11-107	11-54,11-56	11-116	11-104	11-127	11-145	11-141
22 or 52	17	18	23 or 53	30	31	14		16	37 or 44 39 or 46	47			12	
								2			3			
										2				
						1	2							
2						1	2	2					3	
						1	2							
						1	2	2						
						1	2				3			
						3	1				2		3	
						3		1					3	
								2	3		3			1
3			3					3		2	1	3		3