## PROBLEM SYMPTOMS TABLE

When the malfunction code is not confirmed by the DTC check and the problem still cannot be confirmed in the basic inspection, proceed to this table and perform troubleshooting according to the numbered order given in the table below.

Symptom	Suspected Area	See page
December 1 (Difficulty 1 1)	1. Starter	ST-20*
Does not crank (Difficult to start)	2. Starter relay	ST-35* <sup>1</sup>
	Starter signal circuit	DI-151
	2. Heater idle –up switch circuit	DI-159
	3. Injection nozzle	FU-1*
Cold engine (Difficult to start)	4. Fuel filter	FU-1*
Cold eligine (Dimodit to start)	5. Engine ECU	ED-11* <sup>2</sup>
	6. Injection pump	FU-113 <sup>1</sup>
	7. Compression	EM-2*1
	Starter signal circuit	DI-151
	2. Injection nozzle	FU-1* <sup>2</sup>
	3. Fuel filter	FU-1*
Hot engine (Difficult to start)	4. Compression	FM-2*
	5. Engine ECU	ED-11* <sup>2</sup>
	6. Injection pump	FU-113* <sup>1</sup>
_	1. Fuel filter	FU-1*
	2. ECU power source circuit	DI-122
Soon after starting (Engine stall)	3. Engine ECU	ED-11*2
Soon alter starting (Engine stail)	4. Injection pump	FU-113 <u>*</u>
	5. Injection nozzle	FU-1* <sup>2</sup>
	1. ECU power source circuit	DI-122
	Spill valve relay circuit	DI-157
Other Problem (Engine stall)	3. Engine ECU	ED-11* <sup>2</sup>
Other Problem (Engine stail)	4. Injection pump	FU-113*
	5. Injection nozzle	FU-1* <sup>2</sup>
Incorrect first idle (Poor idling)	1. Fuel filter	FU-1*
	2. Engine ECU	ED-11* <sup>2</sup>
	3. Injection pump	FU-113 <sup>1</sup>
	4. Injection nozzle	FU-1* <sup>2</sup>
	1. A/C signal circuit	DI-138
	Starter signal circuit	DI-151
	3. Engine ECU	ED-11* <sup>2</sup>
High engine idle speed (Poor idling)	4. Injection pump	FU-113* <sup>1</sup>
	5. Injection nozzle	FU-1* <sup>2</sup>
	6. Heater idle -up switch circuit	DI-159
Lower engine idle speed (Poor idling)	1. A/C signal circuit	DI-138
	Injection nozzle	FU-1* <sup>2</sup>
	3. EGR control circuit	DI-128
	4. Compression	EM-2*
	5. Valve clearance	EM-9* <sup>1</sup>
	6. Fuel line (Air in)	_
	7. Engine ECU	ED-11*2
	8. Injection pump	FU-113* <sup>'</sup>
	1. Injection nozzle	FU-1* <sup>2</sup>
	2. Fuel line (Air in)	_
Rough idling (Poor idling)	3. EGR control circuit	DI-128
	4. Compression	EM-2* <sup>1</sup>
	5. Valve clearance	EM-9*1
	6. Engine ECU	ED-11* <sup>2</sup>
	7. Injection pump	FU-113* <sup>1</sup>

	1. Injection nozzle	FU-1* <sup>2</sup>
	2. ECU power source circuit	DI-122
	3. Compression	EM-2* <sup>1</sup>
Hunting at hot engine (Poor idling)	4. Fuel line (Air in)	- 1
	5. Valve clearance	EM-9*1
	6. Engine ECU	ED-11* <sup>2</sup>
	7. Injection pump	FU-113* <sup>1</sup>
	1. Injection nozzle	FU-1* <sup>2</sup>
	2. ECU power source circuit	DI-122
	3. Compression	EM-2*
Hunting at cold engine (Poor idling)	4. Fuel line (Air in)	
	5. Valve clearance	EM-9*
	6. Engine ECU	ED-11* <sup>2</sup>
	7. Injection pump	FU-113* <sup>1</sup>
	1. Injection nozzle	FU-1*
	2. Fuel filter	FU-1* <sup>1</sup>
	3. EGR control circuit	DI-128
Hesitation/Poor acceleration (Poor driveability)	4. Compression	EM-2* <sup>1</sup>
	5. Engine ECU	ED-11* <sup>2</sup>
	6. Injection pump	FU-113* <sup>1</sup>
	1. Injection nozzle	FU-1* <sup>2</sup>
Knocking (Poor driveability)	2. EGR control circuit	DI-128
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3. Engine ECU	ED-11* <sup>2</sup>
	1. Injection nozzle	FU-1* <sup>2</sup>
	2. EGR control circuit	DI-128
Black smoke (Poor driveability)	3. Engine ECU	ED-11* <sup>2</sup>
	4. Injection pump	FU-113* <sup>1</sup>
	1. EGR control circuit	DI-128
	Injection nozzle	FU-1* <sup>2</sup>
White smoke (Poor driveability)	3. Fuel filter	FU-1* <sup>1</sup>
,,,,	4. Engine ECU	ED-11* <sup>2</sup>
	5. Injection pump	FU-113* <sup>1</sup>
	1. Injection nozzle	FU-1*2
Surging/Hunting (Poor driveability)	2. Engine ECU	ED-11* <sup>2</sup>
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3. Injection pump	FU-113* <sup>1</sup>