

## PROBLEM SYMPTOMS TABLE

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

Symptom	Suspect Area	See page
Does not crank (Difficult to start)	1. Starter 2. Starter relay 3. Neutral start switch circuit (A/T)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Cold engine (Difficult to start)	1. Intake heater control circuit 2. STA signal circuit 3. Heater idle –up switch circuit 4. Injection nozzle 5. Fuel filter 6. Engine ECU 7. Injection pump	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <a href="#">FU-1</a> <input type="checkbox"/> <a href="#">ED-11</a> <input type="checkbox"/>
Hot engine (Difficult to start)	1. STA signal circuit 2. Injection nozzle 3. Fuel filter 4. Compression 5. Engine ECU 6. Injection pump	<input type="checkbox"/> <a href="#">FU-1</a> <input type="checkbox"/> <input type="checkbox"/> <a href="#">ED-11</a> <input type="checkbox"/>
Soon after starting (Engine stall)	1. Fuel filter 2. ECU power source circuit 3. Engine ECU 4. Injection pump	<input type="checkbox"/> <input type="checkbox"/> <a href="#">ED-11</a> <input type="checkbox"/>
Others (Engine stall)	1. ECU power source circuit 2. Spill valve relay circuit 3. Engine ECU 4. Injection pump	<input type="checkbox"/> <input type="checkbox"/> <a href="#">ED-11</a> <input type="checkbox"/>
Incorrect first idle (Poor idling)	1. Fuel filter 2. Engine ECU 3. Injection pump	<input type="checkbox"/> <a href="#">ED-11</a> <input type="checkbox"/>
High engine idle speed (Poor idling)	1. A/C signal circuit 2. STA signal circuit 3. Engine ECU 4. Injection pump	<input type="checkbox"/> <input type="checkbox"/> <a href="#">ED-11</a> <input type="checkbox"/>
Lower engine idle speed (Poor idling)	1. A/C signal circuit 2. Injection nozzle 3. EGR control circuit 4. Compression 5. Valve clearance 6. Fuel line (Air bead) 7. Engine ECU 8. Injection pump	<input type="checkbox"/> <a href="#">FU-1</a> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <a href="#">ED-11</a> <input type="checkbox"/>
Rough idling (Poor idling)	1. Injection nozzle 2. Fuel line (Air bead) 3. Intake heater control circuit 4. EGR control circuit 5. Compression 6. Valve clearance 7. Engine ECU 8. Injection pump	<a href="#">FU-1</a> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <a href="#">ED-11</a> <input type="checkbox"/>

Symptom	Suspect Area	See page
Hunting at hot engine (Poor idling)	1. Injection nozzle 2. ECU power source circuit 3. Compression 4. Fuel line (Air bead) 5. Valve clearance 6. Engine ECU 7. Injection pump	FU-1 <input type="checkbox"/> <input type="checkbox"/> – <input type="checkbox"/> ED-11 <input type="checkbox"/>
Hunting at cold engine (Poor idling)	1. Injection nozzle 2. ECU power source circuit 3. Intake heater control circuit 4. Compression 5. Fuel line (Air bead) 6. Valve clearance 7. Engine ECU 8. Injection pump	FU-1 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> – <input type="checkbox"/> ED-11 <input type="checkbox"/>
Hesitation/ Poor acceleration (Poor driveability)	1. Injection nozzle 2. Fuel filter 3. EGR control circuit 4. Compression 5. Engine ECU 6. Injection pump	FU-1 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> ED-11 <input type="checkbox"/>
Knocking (Poor driveability)	1. Injection nozzle 2. EGR control circuit 3. Engine ECU	FU-1 <input type="checkbox"/> ED-11
Black smoke (Poor driveability)	1. Injection nozzle 2. EGR control circuit 3. Engine ECU 4. Injection pump	FU-1 <input type="checkbox"/> ED-11 <input type="checkbox"/>
White smoke (Poor driveability)	1. EGR control circuit 2. Intake heater control circuit 3. Injection nozzle 4. Fuel filter 5. Engine ECU 6. Injection pump	<input type="checkbox"/> <input type="checkbox"/> FU-1 <input type="checkbox"/> ED-11 <input type="checkbox"/>
Surging/ Hunting (Poor driveability)	1. Injection nozzle 2. Engine ECU 3. Injection pump	FU-1 ED-11 <input type="checkbox"/>

☐: See Pub. No. RM617E