DI31N–02

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)	ST–20 ST–35 DI–108
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	DI–80 DI–105 DI–115 FU–43 FU–1 ED–17 FU–113
Hot engine (Difficult to start)	1. STA signal circuit 2. Injection nozzle 3. Fuel filter 4. Compression 5. Engine ECU 6. Injection pump	DI–105 FU–43 FU–1 EM–2 ED–17 FU–113
Soon after starting (Engine stall)	1. Fuel filter 2. ECU power source circuit 3. Engine ECU 4. Injection pump	FU–1 DI–76 ED–17 FU–113
Others (Engine stall)	1. ECU power source circuit 2. Spill valve relay circuit 3. Engine ECU 4. Injection pump	DI–76 DI–113 ED–17 FU–113
Incorrect first idle (Poor idling)	1. Fuel filter 2. Engine ECU 3. Injection pump	FU–1 ED–17 FU–113
High engine idle speed (Poor idling)	1. A/C signal circuit 2. STA signal circuit 3. Engine ECU 4. Injection pump	DI–93 ED–5 ED–17 FU–113
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 beed) 7. Engine ECU 8. Injection pump	DI–93 FU–43 DI–85 EM–2 EM–9 – ED–17 FU–113
Rough idling (Poor idling)	1. Injection nozzle 2. Fuel line (Air beed) 3. Intake heater control circuit 4. EGR control circuit 5. Compression 6. Valve clearance 7. Engine ECU 8. Injection pump	FU–43 – DI–80 DI–85 EM–2 EM–9 ED–17 FU–113

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 beed) 5. Valve clearance 6. Engine ECU 7. Injection pump	FU–43 DI–76 EM–2 – EM–9 ED–17 FU–113
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 beed) 6. Valve clearance 7. Engine ECU 8. Injection pump	FU–43 DI–76 DI–80 EM–2 – EM–9 ED–17 FU–113
Hesitation/ Poor acceleration (Poor driveability)	1. Injection nozzle 2. Fuel filter 3. EGR control circuit 4. Compression 5. Engine ECU 6. Injection pump	FU–36 FU–1 DI–85 EM–2 ED–17 FU–113
Knocking (Poor driveability)	1. Injection nozzle 2. EGR control circuit 3. Engine ECU	FU–36 DI–85 ED–17
Black smoke (Poor driveability)	1. Injection nozzle 2. EGR control circuit 3. Engine ECU 4. Injection pump	FU–36 DI–85 ED–17 FU–113
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	DI–85 DI–80 FU–36 FU–1 ED–17 FU–113
Surging/ Hunting (Poor driveability)	1. Injection nozzle 2. Engine ECU 3. Injection pump	FU–43 ED–17 FU–113