054S7–08

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
Engine does not crank (Does not start)	1. Starter 2. Starter relay	19–9 19–9
No initial combustion (Does not start)	1. ECM power source circuit 2. Pre–heating system 3. Compression 4. ECM 5. Injection pump	05–269 05–275 14–73 01–36 11–43
Cold engine (Difficult to start)	1. Pre–heating system 2. STA signal circuit 3. Engine coolant temperature sensor 4. Injection nozzle 5. Fuel filter 6. Venturi 7. ECM 8. Injection pump	05–275 05–282 10–16 11–46 11–51 10–14 01–36 11–43
Hot engine (Difficult to start)	1. STA signal circuit 2. Injection nozzle 3. Fuel filter 4. Venturi 5. ECM 6. Injection pump	05–282 11–46 11–51 10–14 01–36 11–43
Soon after starting (Engine stall)	1. Fuel filter 2. Venturi 3. ECM 4. Injection pump	11–51 10–14 01–36 11–43
Others (Engine stall)	1. ECM power source circuit 2. Venturi 3. ECM 4. Injection pump	05–269 10–14 01–36 11–43
Incorrect first idle (Poor idling)	1. Engine coolant temperature sensor 2. Fuel filter 3. ECM 4. Injection pump	10–16 11–51 01–36 11–43
High engine idle speed (Poor idling)	1. A/C signal circuit 2. Engine coolant temperature sensor 3. ECM 4. Injection pump	05–285 10–16 01–36 11–43
Low engine idle speed (Poor idling)	1. A/C signal circuit 2. Injection nozzle 3. Engine coolant temperature sensor 4. Venturi 5. Compression 6. Valve clearance 7. Fuel line (Air bleed) 8. ECM 9. Injection pump	05–285 11–46 10–16 10–14 14–73 14–79 — 01–36 11–43

Rough idling (Poor idling)	1. Injection nozzle 2. Fuel line (Air bleed) 3. Pre–heating system 4. Venturi 5. Compression 6. Valve clearance 7. ECM 8. Injection pump	11–46 — 05–275 10–14 14–73 14–79 01–36 11–43
Hunting at hot engine (Poor idling)	1. Injection nozzle 2. ECM power source circuit 3. Compression 4. Fuel line (Air bleed) 5. Valve clearance 6. ECM 7. Injection pump	11–46 05–269 14–73 — 14–79 01–36 11–43
Hunting at cold engine (Poor idling)	1. Pre–heating system 2. Injection nozzle 3. ECM power source circuit 4. Engine coolant temperature sensor 5. Compression 6. Fuel line (Air bleed) 7. Valve clearance 8. ECM 9. Injection pump	05–275 11–46 05–269 10–16 14–73 — 14–79 01–36 11–43
Hesitation/ Poor acceleration (Poor driveability)	1. Injection nozzle 2. Fuel filter 3. Compression 4. ECM 5. Injection pump	11–46 11–51 14–73 01–36 11–43
Knocking (Poor driveability)	1. Injection nozzle 2. Engine coolant temperature sensor 3. ECM	11–46 10–16 01–36
Black smoke (Poor driveability)	1. Injection nozzle 2. Venturi 3. Intake air temperature sensor 4. ECM 5. Injection pump	11–46 10–14 10–16 01–36 11–43
White smoke (Poor driveability)	1. Pre–heating system 2. Injection nozzle 3. Fuel filter 4. Venturi 5. Engine coolant temperature sensor 6. Intake air temperature sensor 7. ECM 8. Injection pump	05–275 11–46 11–51 10–14 10–16 10–16 01–36 11–43
Surging/ Hunting (Poor driveability)	1. Injection nozzle 2. ECM 3. Injection pump	11–46 01–36 11–43