PROBLEM SYMPTOMS TABLE

DIDY3-01

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

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

[1]: See Pub No. RM617E
[2]: See Pub No. RM896E