DI31N–14

PROBLEM SYMPTOMS TABLE

When no malfunction code can be confirmed in the DTC check and the problem still can not be confirmed in the basic inspection, either, then proceed to this step and perform a troubleshooting according to the numbered order given in the table below.

Symptom	Suspect Area	See page
Engine does not crank (Difficult to start)	1. Starter	ST–16
	2. Starter relay	ST–30
	3. Water temp. sensor	ED–12
Cold engine (Difficult to start)	1. STA signal circuit	DI–137
	2. Injector	FU–4
	3. Fuel filter	FU–1
	4. Compression	EM–3
	5. Engine ECU	ED–25
	6. Supply pump	FU–13
	7. Fuel pressure sensor	ED–15
	8. Diesel throttle	ED–6
	9. Glow plug system	ST–2
Hot engine (Difficult to start)	1. STA signal circuit	DI–137
	2. Injector	FU–4
	3. Fuel filter	FU–1
	4. Compression	EM–3
	5. Engine ECU	ED–25
	6. Supply pump	FU–13
	7. Fuel pressure sensor	ED–15
	8. Diesel throttle	ED–6
Soon after starting (Engine stall)	1. Fuel filter	FU–1
	2. Injector	FU–4
	3. ECU power source circuit	DI–115
	4. Engine ECU	ED–25
	5. Supply pump	FU–13
	6. Fuel pressure sensor	ED–15
	7. Diesel throttle	ED–6
Others (Engine stall)	1. ECU power source circuit	DI–115
	2. Injector	FU–4
	3. Engine ECU	ED–25
	4. Supply pump	FU–13
	5. Fuel pressure sensor	ED–15
	6. Diesel throttle	ED–6
Incorrect first idle (Poor idling)	1. Fuel filter	FU–1
	2. Injector	FU–4
	3. Engine ECU	ED–25
	4. Supply pump	FU–13
	5. Fuel pressure sensor	ED–15
High engine idle speed (Poor idling)	1. A/C signal circuit	DI–125
	2. Injector	FU–4
	3. STA signal circuit	DI–137
	4. Engine ECU	ED–25
	5. Supply pump	FU–13
	6. Fuel pressure sensor	ED–15

Lower engine idle speed (Poor idling)	1. A/C signal circuit 2. Injector 3. EGR control circuit 4. Compression 5. Valve clearance 6. Fuel line (Air bleed) 7. Engine ECU 8. Supply pump 9. Fuel pressure sensor 10.Diesel throttle	DI–125 FU–4 DI–119 EM–3 EM–6 – ED–25 FU–13 ED–15 ED–6
Rough idling (Poor idling)	1. Injector 2. Fuel line (Air bleed) 3. EGR control circuit 4. Compression 5. Valve clearance 6. Engine ECU 7. Supply pump 8. Fuel pressure sensor 9. Diesel throttle	FU–4 – DI–119 EM–3 EM–6 ED–25 FU–13 ED–15 ED–6
Hunting at hot engine (Poor idling)	1. Injector 2. ECU power source circuit 3. Compression 4. Fuel line (Air bleed) 5. Valve clearance 6. Engine ECU 7. Supply pump 8. Fuel pressure sensor 9. Diesel throttle	FU–4 DI–115 EM–3 – EM–6 ED–25 FU–13 ED–15 ED–6
Hunting at cold engine (Poor idling)	1. Injector 2. ECU power source circuit 3. Compression 4. Fuel line (Air bleed) 5. Valve clearance 6. Engine ECU 7. Supply pump 8. Fuel pressure sensor 9. Diesel throttle	FU–4 DI–115 EM–3 – EM–6 ED–25 FU–13 ED–15 ED–6
Hesitation/ Poor acceleration (Poor driveability)	1. Injector 2. Fuel filter 3. EGR control circuit 4. Compression 5. Engine ECU 6. Supply pump 7. Fuel pressure sensor 8. Diesel throttle	FU–4 FU–1 DI–119 EM–3 ED–25 FU–13 ED–15 ED–6
Knocking (Poor driveability)	1. Injector 2. EGR control circuit 3. Engine ECU 4. Supply pump 5. Fuel pressure sensor	FU–4 DI–119 ED–25 FU–13 ED–15
Black smoke (Poor driveability)	1. Injector 2. EGR control circuit 3. Engine ECU 4. Supply pump 5. Fuel pressure sensor 6. Diesel throttle	FU–4 DI–119 ED–25 FU–13 ED–15 ED–6

White smoke (Poor driveability)	1. EGR control circuit 2. Injector 3. Fuel filter 4. Engine ECU 5. Supply pump 6. Fuel pressure sensor 7. Diesel throttle	DI–119 FU–4 FU–1 ED–24 FU–13 ED–15 ED–6
Surging/ Hunting (Poor driveability)	1. Injector 2. Engine ECU 3. Supply pump 4. Fuel pressure sensor	FU–4 ED–25 FU–13 ED–15