057FE–02

PROBLEM SYMPTOMS TABLE

When the malfunction code is not confirmed during the diagnostic trouble code check and no problem can be confirmed in the basic inspection, proceed to this problem symptoms tables and troubleshoot according to the numbered order given below.

Symptom	Suspected Area	See Page
Engine not crank (Difficult to start)	1. Starter	19–1
	2. Starter relay	19–1
	3. Engine coolant temp. sensor	16–22
Cold engine (Difficult to start)	1. STA signal circuit	05–182
	2. Injector	11–155
	3. Fuel filter	–
	4. Compression	–
	5. ECM	05–117
	6. Supply pump	11–155
	7. Fuel pressure sensor	11–155
	8. Diesel throttle	10–14
	9. Glow plug system	–
Hot engine (Difficult to start)	1. STA signal circuit	05–182
	2. Injector	11–155
	3. Fuel filter	–
	4. Compression	–
	5. ECM	05–117
	6. Supply pump	11–155
	7. Fuel pressure sensor	11–155
	8. Diesel throttle	10–14
Soon after starting (Engine stall)	1. Fuel filter	–
	2. Injector	11–155
	3. ECM power source circuit	05–184
	4. ECM	05–117
	5. Supply pump	11–155
	6. Fuel pressure sensor	11–155
	7. Diesel throttle	10–14
Others (Engine stall)	1. ECM power source circuit	05–184
	2. Injector	11–155
	3. ECM	05–117
	4. Supply pump	11–155
	5. Fuel pressure sensor	11–155
	6. Diesel throttle	10–14
Incorrect first idle (Poor idling)	1. Fuel filter	–
	2. Injector	11–155
	3. ECM	05–117
	4. Supply pump	11–155
	5. Fuel pressure sensor	11–155
High engine idle speed (Poor idling)	1. Injector	11–155
	2. STA signal circuit	05–182
	3. ECM	05–117
	4. Supply pump	11–155
	5. Fuel pressure sensor	11–155

Lower engine idle speed (Poor idling)	1. Injector 2. Compression 3. Valve clearance 4. Fuel line (Air bleed) 5. ECM 6. Supply pump 7. Fuel pressure sensor 8. Diesel throttle	11–155 – 14–82 – 05–117 11–155 11–155 10–14
Rough idling (Poor idling)	1. Injector 2. Fuel line (Air bleed) 3. Compression 4. Valve clearance 5. ECM 6. Supply pump 7. Fuel pressure sensor 8. Diesel throttle	11–155 – 14–82 – 05–117 11–155 11–155 10–14
Hunting at hot engine (Poor idling)	1. Injector 2. ECM power source circuit 3. Compression 4. Fuel line (Air bleed) 5. Valve clearance 6. ECM 7. Supply pump 8. Fuel pressure sensor 9. Diesel throttle	11–155 05–184 – – 14–82 05–117 11–155 11–155 10–14
Hunting at cold engine (Poor idling)	1. Injector 2. ECM power source circuit 3. Compression 4. Fuel line (Air bleed) 5. Valve clearance 6. ECM 7. Supply pump 8. Fuel pressure sensor 9. Diesel throttle	11–155 05–184 – – 14–82 05–117 11–155 11–155 10–14
Hesitation/Poor acceleration (Poor driveability)	1. Injector 2. Fuel filter 3. Compression 4. ECM 5. Supply pump 6. Fuel pressure sensor 7. Diesel throttle	11–155 – – 05–117 11–155 11–155 10–14
Knocking (Poor driveability)	1. Injector 2. ECM 3. Supply pump 4. Fuel pressure sensor	11–155 05–117 11–155 11–155
Black smoke (Poor driveability)	1. Injector 2. ECM 3. Supply pump 4. Fuel pressure sensor 5. Diesel throttle	11–155 05–117 11–155 11–155 10–14

White smoke (Poor driveability)	1. Injector 2. Fuel filter 3. ECM 4. Supply pump 5. Fuel pressure sensor 6. Diesel throttle	11–155 – 05–117 11–155 11–155 10–14
Surging/Hunting (Poor driveability)	1. Injector 2. ECM 3. Supply pump 4. Fuel pressure sensor	11–155 05–117 11–155 11–155