054S7–06

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	19–33
	2. Starter relay	19–33
	3. Water temp. sensor	10–26
Cold engine (Difficult to start)	1. STA signal circuit	05–564
	2. Injector	11–102
	3. Fuel filter	11–124
	4. Compression	14–186
	5. ECM	10–26
	6. Supply pump	10–26
	7. Fuel pressure sensor	10–26
	8. Diesel throttle	10–26
	9. Glow plug system	10–26
Hot engine (Difficult to start)	1. STA signal circuit	05–564
	2. Injector	11–102
	3. Fuel filter	11–124
	4. Compression	14–186
	5. ECM	10–26
	6. Supply pump	10–26
	7. Fuel pressure sensor	10–26
	8. Diesel throttle	10–26
Soon after starting (Engine stall)	1. Fuel filter	11–124
	2. Injector	11–102
	3. ECM power source circuit	05–537
	4. ECM	10–26
	5. Supply pump	10–26
	6. Fuel pressure sensor	10–26
	7. Diesel throttle	10–26
Others (Engine stall)	1. ECM power source circuit	05–537
	2. Injector	11–102
	3. ECM	10–26
	4. Supply pump	10–26
	5. Fuel pressure sensor	10–26
	6. Diesel throttle	10–26
Incorrect first idle (Poor idling)	1. Fuel filter	11–124
	2. Injector	11–102
	3. ECM	10–26
	4. Supply pump	10–26
	5. Fuel pressure sensor	10–26
High engine idle speed (Poor idling)	1. A/C signal circuit	05–552
	2. Injector	11–102
	3. STA signal circuit	05–564
	4. ECM	10–26
	5. Supply pump	10–26
	6. Fuel pressure sensor	10–26

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 beed) 7. ECM 8. Supply pump 9. Fuel pressure sensor 10.Diesel throttle	05–552 11–102 05–543 14–186 14–190 – 10–26 10–26 10–26 10–26
Rough idling (Poor idling)	1. Injector 2. Fuel line (Air beed) 3. EGR control circuit 4. Compression 5. Valve clearance 6. ECM 7. Supply pump 8. Fuel pressure sensor 9. Diesel throttle	11–102 – 05–543 14–186 14–190 10–26 10–26 10–26 10–26
Hunting at hot engine (Poor idling)	1. Injector 2. ECM power source circuit 3. Compression 4. Fuel line (Air beed) 5. Valve clearance 6. ECM 7. Supply pump 8. Fuel pressure sensor 9. Diesel throttle	11–102 05–537 14–186 – 14–190 10–26 10–26 10–26 10–26
Hunting at cold engine (Poor idling)	1. Injector 2. ECM power source circuit 3. Compression 4. Fuel line (Air beed) 5. Valve clearance 6. ECM 7. Supply pump 8. Fuel pressure sensor 9. Diesel throttle	11–102 05–537 14–186 – 14–190 10–26 10–26 10–26 10–26
Hesitation/ Poor acceleration (Poor driveability)	1. Injector 2. Fuel filter 3. EGR control circuit 4. Compression 5. ECM 6. Supply pump 7. Fuel pressure sensor 8. Diesel throttle	11–102 11–124 05–543 14–186 10–26 10–26 10–26 10–26
Knocking (Poor driveability)	1. Injector 2. EGR control circuit 3. ECM 4. Supply pump 5. Fuel pressure sensor	11–102 05–543 10–26 10–26 10–26
Black smoke (Poor driveability)	1. Injector 2. EGR control circuit 3. ECM 4. Supply pump 5. Fuel pressure sensor 6. Diesel throttle	11–102 05–543 10–26 10–26 10–26 10–26

White smoke (Poor driveability)	1. EGR control circuit 2. Injector 3. Fuel filter 4. ECM 5. Supply pump 6. Fuel pressure sensor 7. Diesel throttle	05–543 11–102 11–124 10–26 10–26 10–26 10–26
Surging/ Hunting (Poor driveability)	1. Injector 2. ECM 3. Supply pump 4. Fuel pressure sensor	11–102 10–26 10–26 10–26