DI31N–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 a troubleshooting according to the numbered order given in the table below.

Symptom	Suspect Area	See page
Does not crank (Difficult to start)	1. Starter	#
	2. Starter relay	#
	3. Neutral start switch circuit (A/T)	–
Cold engine (Difficult to start)	1. STA signal circuit	DI–104
	2. Injection nozzle	FU–3
	3. Fuel filter	#
	4. Engine ECU	#
	5. Injection pump	FU–5
Hot engine (Difficult to start)	1. STA signal circuit	DI–104
	2. Injection nozzle	FU–3
	3. Fuel filter	#
	4. Compression	#
	5. Engine ECU	#
	6. Injection pump	FU–5
Soon after starting (Engine stall)	1. Fuel filter	#
	2. ECU power source circuit	DI–92
	3. Engine ECU	#
	4. Injection pump	FU–5
Others (Engine stall)	1. ECU power source circuit	DI–92
	2. Engine ECU	#
	3. Injection pump	FU–5
Incorrect first idle (Poor idling)	1. Fuel filter	#
	2. Engine ECU	#
	3. Injection pump	FU–5
High engine idle speed (Poor idling)	1. A/C signal circuit	DI–125
	2. STA signal circuit	DI–104
	3. Engine ECU	#
	4. Injection pump	FU–5
Lower engine idle speed (Poor idling)	1. A/C signal circuit	DI–125
	2. Injection nozzle	FU–3
	3. EGR control circuit	DI–109
	4. Compression	#
	5. Valve clearance	#
	6. Fuel line (Air beed)	–
	7. Engine ECU	#
	8. Injection pump	FU–5
Rough idling (Poor idling)	1. Injection nozzle	FU–3
	2. Fuel line (Air beed)	–
	3. EGR control circuit	DI–109
	4. Compression	#
	5. Valve clearance	#
	6. Engine ECU	#
	7. Injection pump	FU–5

Hunting at hot engine (Poor idling)	1. Injection nozzle 2. ECU power source circuit 3. Compression 4. Fuel line (Air beed) 5. Valve clearance 6. Engine ECU 7. Injection pump	FU–3 DI–92 # – # # FU–5
Hunting at cold engine (Poor idling)	1. Injection nozzle 2. ECU power source circuit 3. Compression 4. Fuel line (Air beed) 5. Valve clearance 6. Engine ECU 7. Injection pump	FU–3 DI–92 # – # # FU–5
Hesitation/ Poor acceleration (Poor driveability)	1. Injection nozzle 2. Fuel filter 3. EGR control circuit 4. Compression 5. Engine ECU 6. Injection pump	FU–3 # DI–109 # # FU–5
Knocking (Poor driveability)	1. Injection nozzle 2. EGR control circuit 3. Engine ECU	FU–3 DI–109 #
Black smoke (Poor driveability)	1. Injection nozzle 2. EGR control circuit 3. Engine ECU 4. Injection pump	FU–3 DI–109 # FU–5
White smoke (Poor driveability)	1. EGR control circuit 2. Injection nozzle 3. Fuel filter 4. Engine ECU 5. Injection pump	DI–109 FU–3 # # FU–5
Surging/ Hunting (Poor driveability)	1. Injection nozzle 2. Engine ECU 3. Injection pump	FU–3 # FU–5

#: See Pub. No. RM710E (1KZ–TE), RM789E (Hilux Sup.), RM663U (1999 4Runner) or RM805E (Land Cruiser/Land Cruiser Prado Sup.).