DI31K–06

# DIAGNOSTIC TROUBLE CODE CHART

HINT:

Parameters listed in the chart may not be exactly the same as your readings due to the type of instrument or other factors.

If a malfunction code is displayed during the DTC check in the check(test) mode, check the circuit for that code listed in the table below. For details of each code, refer to the See page under the respective ”DTC No.” in the DTC chart.

| DTC No. (See page) | Detection Item | Trouble Area | *1 Check Engine Warning Light (Normal Mode/ Test Mode) | *2 Memory |
|---|---|---|---|---|
| 12 (DI–26) | Engine speed Sensor Circuit Malfunction (TDC or G1 Circuit) | • Open or short in crankshaft position sensor circuit<br>• Crankshaft position sensor<br>• Engine ECU | ON/ON | ○ |
| 13 (DI–29) | Engine Speed Sensor Circuit Malfunction (NE Circuit) | • Open or short in engine speed sensor circuit<br>• Engine speed sensor<br>• Engine ECU | ON/ON | ○ |
| 14 (DI–31) | Timing Control System Malfunction | • Open or short in timing control valve circuit<br>• Fuel filter (Clogging)<br>• Fuel (Freezing, Air in)<br>• Injection pump (Internal pressure and timing control valve)<br>• Engine ECU | ON/N.A. | ○ |
| 15 (DI–34) | Throttle Control Motor Circuit Malfunction | • Open or short in throttle control motor circuit<br>• Throttle control motor<br>• Throttle valve<br>• Throttle body<br>• Engione ECU | ON/N.A. | ○ |
| 17 | Interior IC Malfunction | • Engine ECU | ON/N.A. | ○ |
| 18 (DI–38) | Spill Control Valve Malfunction | • Open or short in spill control valve circuit<br>• Spill control valve<br>• Engine ECU | ON/N.A. | ○ |
| 19 (1) (DI–42) | Accelerator Pedal Position Sensor Circuit Malfunction (Open/Short) | • Open or short in accelerator pedal position sensor circuit<br>• Accelerator pedal position sensor<br>• Engine ECU | ON/ON | ○ |
| 19 (2) (DI–50) | Accelerator Pedal Position Sensor Circuit Malfunction (IDL Switch/Range) | • Open or short in accelerator pedal position sensor circuit<br>• Accelerator pedal position sensor<br>• Engine ECU | ON/N.A. | ○ |
| 19 (3) (DI–55) | Accelerator Pedal Closed Position Switch Circuit Malfunction (Short) | • Short in accelerator pedal closed position switch circuit<br>• Accelerator pedal closed position switch<br>• Engine ECU | ON/N.A. | ○ |
| 19 (4) (DI–55) | Accelerator Pedal Closed Position Switch Circuit Malfunction (Open) | • Open in accelerator pedal closed position switch circuit<br>• Accelerator pedal closed position switch<br>• Engine ECU | ON/N.A. | ○ |
| 22 (DI–57) | Water Temp. Sensor Circuit Malfunction | • Open or short in water temp. sensor circuit<br>• Water temp. sensor<br>• Engine ECU | ON/ON | ○ |
| 24 (DI–63) | Intake Air Temp. Sensor Circuit Malfunction | • Open or short in intake air temp. sensor circuit<br>• Intake air temp. sensor<br>• Engine ECU | OFF/ON | ○ |

| | | | | |
|---|---|---|---|---|
| 32 (DI–69) | Injection Pump Correction System Malfunction | • Open or short in injection pump correction unit cuicuit<br>• Injection pump correction unit<br>• Vacuum hose disconnected or crogged<br>• Engine ECU | OFF/N.A. | ○ |
| 35 (DI–71) | Turbo Pressure Sensor Circuit Malfunction | • Open or short in turbo pressure sensor circuit<br>• Turbo pressure sensor<br>• Engine ECU | ON/ON | ○ |
| 39 (DI–78) | Fuel Temp. Sensor Circuit Malfunction | • Open or short in fuel temp. sensor circuit<br>• Fuel temp. sensor<br>• Engine ECU | ON/ON | ○ |
| 42 (DI–84) | Vehicle Speed Sensor Signal Circuit Malfunction | • Combination meter<br>• Open or short in vehicle speed sensor circuit<br>• Vehicle speed sensor<br>• Engine ECU | ON/ON | ○ |
| 96 (DI–87) | EGR Valve Lift Sensor Circuit Malfunction | • Open or short in EGR valve lift sensor circuit<br>• EGR valve lift sensor<br>• Engine ECU | ON/ON | ○ |
| 99*3 | Engine Immobilizer System Malfunction | • Open or short in engine immobilizer system circuit<br>• Transponder key amplifier<br>• Transponder key computer<br>• Transponder key coil<br>• Engine ECU | OFF/N.A. | ○ |

*1: ”ON” displayed in the diagnosis mode column indicates that the check engine warning light is on when a malfunction is detected. ”OFF” indicates that the ”CHECK ENGINE” does not light up during the malfunction diagnosis, even if a malfunction is detected. ”N.A.” indicates that the item is not included in malfunction diagnosis.

*2: ”○” in the memory column indicates that a diagnostic trouble code is recorded in the engine ECU memory when a malfunction occurs. Accordingly, on output of diagnostic results in the normal or test mode is done with the ignition switch ON.

*3: See Pub. No. RM789E (HILUX), RM663U (1999 4Runner) or RM805E (LAND CRUISER PRADO) on BE section.