

# DIAGNOSTIC TROUBLE CODE CHART

## NOTICE:

**When removing the part, turn the ignition switch OFF.**

## HINT:

- Using SST 09843 –18020, connect the terminals Tc and E<sub>1</sub>, and remove the short pin.
- If any abnormality is not found when inspecting parts, inspect the ECU.
- If a malfunction code is displayed during the DTC check, check the circuit listed for that code. For details of each code, turn to the page referred to under the "See page" for respective "DTC No." in the DTC chart.

| DTC No.<br>(See Page)               | Detection Item  | Trouble Area   |
|-------------------------------------|---|--|
| C0278 / 11<br>□                     | Open or short in ABS solenoid relay circuit                             | <ul style="list-style-type: none"> <li>• ABS solenoid relay</li> <li>• ABS solenoid relay circuit</li> </ul>                         |
| C0279 / 12<br>□                     | B+ short in ABS solenoid relay circuit                                  | <ul style="list-style-type: none"> <li>• ABS solenoid relay</li> <li>• ABS solenoid relay circuit</li> </ul>                         |
| C0226 / 2 1<br>□                    | Open or short in hydraulic brake booster solenoid circuit (SFR circuit) | <ul style="list-style-type: none"> <li>• Hydraulic brake booster</li> <li>• SFRR or SFRH circuit</li> </ul>                          |
| C0236 / 22<br>□                     | Open or short in hydraulic brake booster solenoid circuit (SFL circuit) | <ul style="list-style-type: none"> <li>• Hydraulic brake booster</li> <li>• SFLR or SFLH circuit</li> </ul>                          |
| C0246 / 23<br>□                     | Open or short in hydraulic brake booster solenoid circuit (SRR circuit) | <ul style="list-style-type: none"> <li>• Hydraulic brake booster</li> <li>• SRH or SRR circuit</li> </ul>                            |
| C1225 / 25<br>□                     | Open or short in hydraulic brake booster solenoid circuit (SA circuit)  | <ul style="list-style-type: none"> <li>1 • Hydraulic brake booster</li> <li>• SA1 circuit</li> </ul>                                 |
| C1226 / 26<br>□                     | Open or short in hydraulic brake booster solenoid circuit (SA2 circuit) | <ul style="list-style-type: none"> <li>• Hydraulic brake booster</li> <li>• SA2 circuit</li> </ul>                                   |
| C0200 / 31* <sub>1</sub><br>(DI-79) | Right front wheel speed sensor signal malfunction                       | <ul style="list-style-type: none"> <li>• Right front speed sensor</li> <li>• Speed sensor circuit</li> <li>• Sensor rotor</li> </ul> |
| C0205 / 32* <sub>1</sub><br>(DI-65) | Left front wheel speed sensor signal malfunction                        | <ul style="list-style-type: none"> <li>• Left front speed sensor</li> <li>• Speed sensor circuit</li> <li>• Sensor rotor</li> </ul>  |
| C0210 / 33* <sub>1</sub><br>(DI-65) | Right rear wheel speed sensor signal malfunction                        | <ul style="list-style-type: none"> <li>• Right rear speed sensor</li> <li>• Speed sensor circuit</li> <li>• Sensor rotor</li> </ul>  |
| C0215 / 34* <sub>1</sub><br>(DI-65) | Left rear wheel speed sensor signal malfunction                         | <ul style="list-style-type: none"> <li>• Left rear speed sensor</li> <li>• Speed sensor circuit</li> <li>• Sensor rotor</li> </ul>   |
| C1237 / 37<br>□                     | Some tire is different size from the other tires                        | <ul style="list-style-type: none"> <li>• Tire size</li> </ul>  |
| C1241 / 41<br>□                     | Low battery voltage or open circuit in IG <sub>1</sub> circuit          | <ul style="list-style-type: none"> <li>• Battery</li> <li>• IC regulator</li> <li>• Power source circuit</li> </ul>                  |
| C1242 / 42<br>□                     | Open circuit in IG2 circuit   | <ul style="list-style-type: none"> <li>• Battery</li> <li>• IC regulator</li> <li>• Power source circuit</li> </ul>                  |
| C1243 / 43<br>□                     | Malfunction in deceleration sensor (constant output)                    | <ul style="list-style-type: none"> <li>• Deceleration sensor</li> <li>• Wire harness for deceleration sensor system</li> </ul>       |
| C1244 / 44<br>□                     | Open or short circuit in deceleration sensor circuit                    | <ul style="list-style-type: none"> <li>• Deceleration sensor</li> <li>• Deceleration sensor circuit</li> </ul>                       |
| C1245 / 45<br>□                     | Malfunction in deceleration sensor                                      | <ul style="list-style-type: none"> <li>• Deceleration sensor</li> <li>• Wire harness for deceleration sensor system</li> </ul>       |

|  |   |  |
|--|---|--|
| C1248 / 48<br><input type="checkbox"/>               | <ul style="list-style-type: none"> <li>• Open or short circuit in rear differential lock circuit</li> <li>• Rear differential is locking</li> </ul> | <ul style="list-style-type: none"> <li>• Rear differential lock</li> </ul>   |
| C1249 / 49<br><input type="checkbox"/>               | Open circuit in stop light switch circuit   | <ul style="list-style-type: none"> <li>• Stop light switch circuit</li> </ul>  |
| C1251 / 51* <sup>2</sup><br><input type="checkbox"/> | <ul style="list-style-type: none"> <li>• Pump motor is locked</li> <li>• Open circuit in pump motor ground</li> </ul>                               | <ul style="list-style-type: none"> <li>• Hydraulic brake booster pump motor</li> </ul>   |
| C1252 / 52* <sup>2</sup><br><input type="checkbox"/> | Hydraulic brake booster pump motor malfunction  | <ul style="list-style-type: none"> <li>• Hydraulic brake booster pump motor</li> <li>• Hydraulic brake booster pump motor circuit</li> <li>• Pressure switch (PH or PL)</li> </ul> |
| C1253 / 53* <sup>2</sup><br><input type="checkbox"/> | Hydraulic brake booster pump motor relay malfunction  | <ul style="list-style-type: none"> <li>• ABS motor relay</li> <li>• ABS motor relay circuit</li> </ul>   |
| C1254 / 54* <sup>2</sup><br><input type="checkbox"/> | Pressure switch malfunction   | <ul style="list-style-type: none"> <li>• Pressure switch (PH or PL)</li> <li>• Pressure switch circuit</li> </ul>  |
| C1256 / 56* <sup>2</sup><br><input type="checkbox"/> | Accumulator low pressure malfunction  | <ul style="list-style-type: none"> <li>• Accumulator</li> <li>• Pressure switch (PH or PL)</li> <li>• Hydraulic brake booster pump motor</li> </ul>                                |
| C1257 / 57* <sup>2</sup><br><input type="checkbox"/> | Power supply drive circuit malfunction  | <ul style="list-style-type: none"> <li>• Battery</li> <li>• Power Source circuit</li> <li>• ABS ECU</li> </ul>   |
| Always ON<br><input type="checkbox"/>                | Malfunction in ABS ECU  | <ul style="list-style-type: none"> <li>• Battery</li> <li>• IC regulator</li> <li>• Power source circuit</li> <li>• ABS ECU</li> </ul>   |

\* : As the DTC cannot be erased by replacing parts alone do either of the following operations.

(1) Clear the DTC (See page DI-54).

(2) At a vehicle speed of 20 km/h ( 12 mph), drive the vehicle for 30 seconds or more.

\*<sup>2</sup> : Using the following table, troubled parts can be specified.

☐ : Refer to LAND CRUISER Repair Manual Pub. No. RM6 16E

| DTC                            |                      | 42                       |        | 51                       |                          | 52                       |                          | 53                       |        | 54                       |        | 56                       |                          | 57                       |        |
|--------------------------------|----------------------|--------------------------|--------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------|--------------------------|--------|--------------------------|--------------------------|--------------------------|--------|
| BRAKE warning light and buzzer |                      | Light                    | Buzzer | Light                    | Buzzer                   | Light                    | Buzzer                   | Light                    | Buzzer | Light                    | Buzzer | Light                    | Buzzer                   | Light                    | Buzzer |
| Pressure switch                | PH                   |                          |        |                          |                          | <input type="checkbox"/> | <input type="checkbox"/> |                          |        | <input type="checkbox"/> |        | <input type="checkbox"/> | <input type="checkbox"/> |                          |        |
|                                | PL                   |                          |        |                          |                          | <input type="checkbox"/> | <input type="checkbox"/> |                          |        | <input type="checkbox"/> |        | <input type="checkbox"/> | <input type="checkbox"/> |                          |        |
| Pump motor circuit             | Pump motor           |                          |        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                          |        |                          |        | <input type="checkbox"/> | <input type="checkbox"/> |                          |        |
|                                | MTT wire harness     |                          |        |                          |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |        |                          |        |                          |                          |                          |        |
|                                | MT+ wire harness     |                          |        | <input type="checkbox"/> |                          |                          |                          |                          |        |                          |        |                          |                          |                          |        |
|                                | MT- wire harness     |                          |        | <input type="checkbox"/> |                          |                          |                          |                          |        |                          |        |                          |                          |                          |        |
| Accumulator malfunction        |                      |                          |        |                          |                          |                          |                          |                          |        |                          |        | <input type="checkbox"/> | <input type="checkbox"/> |                          |        |
| Motor relay circuit            | MR1 open circuit     |                          |        |                          |                          |                          |                          | <input type="checkbox"/> |        |                          |        |                          |                          |                          |        |
|                                | MR2 open circuit     |                          |        |                          |                          |                          |                          | <input type="checkbox"/> |        |                          |        |                          |                          |                          |        |
|                                | MR1 welded contact   |                          |        |                          |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |        |                          |        |                          |                          |                          |        |
|                                | MR2 welded contact   |                          |        |                          |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |        |                          |        |                          |                          |                          |        |
| Hydraulic brake booster        | Pressure leaks       |                          |        |                          |                          | <input type="checkbox"/> | <input type="checkbox"/> |                          |        |                          |        | <input type="checkbox"/> | <input type="checkbox"/> |                          |        |
| Power source*                  | IG2 open circuit     | <input type="checkbox"/> |        |                          |                          |                          |                          |                          |        |                          |        |                          |                          |                          |        |
| ECU                            | Power supply circuit |                          |        |                          |                          |                          |                          |                          |        |                          |        |                          |                          | <input type="checkbox"/> |        |

\*: When IG1 circuit is open, the ABS warning light and BRAKE warning light come on.