

# DIAGNOSTIC TROUBLE CODE CHART

## NOTICE:

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

## HINT:

- Using SST 09843-18020 or 09843-18040, connect the terminals Tc and E<sub>1</sub> of check connector or Tc and CG of DLC3, 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 circuit 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 circuit in ABS solenoid relay circuit  |   |
| C0226 / 21<br>( ★ )   | Open or short circuit 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 circuit 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 circuit 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 circuit in hydraulic brake booster solenoid circuit (SA1 circuit)   | <ul style="list-style-type: none"> <li>• Hydraulic brake booster</li> <li>• SA1 circuit</li> </ul>  |
| C1226 / 26<br>( ★ )   | Open or short circuit 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*1<br>( ★ ) | Right front wheel speed sensor signal malfunction   | <ul style="list-style-type: none"> <li>• Right front, left front, right rear and left rear speed sensor</li> <li>• Each speed sensor circuit</li> <li>• Sensor rotor</li> </ul> |
| C0205 / 32*1<br>( ★ ) | Left front wheel speed sensor signal malfunction  |   |
| C0210 / 33*1<br>( ★ ) | Right rear wheel speed sensor signal malfunction  |   |
| C0215 / 34*1<br>( ★ ) | Left rear wheel speed sensor signal malfunction   |   |
| C1237 / 37<br>( ★ )   | Some tire is different size from the other tires  | Tire size   |
| C1241 / 41<br>( ★ )   | Low battery voltage or open circuit in IG1 circuit  | <ul style="list-style-type: none"> <li>• Battery</li> <li>• Charging system</li> <li>• Power source circuit</li> </ul>  |
| C1242 / 42*2<br>( ★ ) | Open circuit in IG2 circuit   | <ul style="list-style-type: none"> <li>• Battery</li> <li>• Charging system</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>( ★ )   | <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> <li>• Rear differential lock circuit</li> </ul>  |

## DIAGNOSTICS – ANTI-LOCK BRAKE SYSTEM

|                    |   |  |
|--------------------|---|--|
| C1249/49<br>(★□)   | Open circuit in stop light switch circuit   | <ul style="list-style-type: none"> <li>Stop light bulb</li> <li>Stop light switch circuit</li> </ul>   |
| C1251/51*2<br>(★□) | <ul style="list-style-type: none"> <li>Pump motor is locked</li> <li>Open circuit in pump motor ground</li> </ul> | Hydraulic brake booster pump motor   |
| C1252/52*2<br>(★□) | 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*2<br>(★□) | Hydraulic brake booster pump motor relay malfunction  | <ul style="list-style-type: none"> <li>ABS motor relay</li> <li>ABS motor relay circuit</li> <li>Hydraulic brake booster pump motor circuit</li> </ul>                       |
| C1254/54*2<br>(★□) | Pressure switch malfunction   | <ul style="list-style-type: none"> <li>Pressure switch (PH or PL)</li> <li>Pressure switch circuit</li> </ul>  |
| C1256/56*2<br>(★□) | 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*2<br>(★□) | 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>(★□)  | Malfunction in ABS ECU  | <ul style="list-style-type: none"> <li>Battery</li> <li>Charging system</li> <li>Power source circuit</li> <li>ABS ECU</li> </ul>  |

★: Refer LAND CRUISER Chassis and Body Repair Manual (Pub. No. RM616E).

- \*1: As the DTC cannot be erased by replacing parts alone do either of the following operations.
  - (1) Clear the DTC (See page DI-17)
  - (2) At the vehicle speed of 20 km/h (12 mph), drive the vehicle for 30 sec. or more.
- \*2: Using the following table, troubled parts can be specified.

| DTC                            |                      | C1242/42 |        | C1251/51 |        | C1252/52 |        | C1253/53 |        | C1254/54 |        | C1256/56 |        | C1257/57 |        |
|--------------------------------|----------------------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|
| BRAKE warning light and buzzer |                      | Light    | Buzzer | Light    | Buzzer | Light    | Buzzer | Light    | Buzzer | Light    | Buzzer | Light    | Buzzer | Light    | Buzzer |
| Pressure switch                | PH                   |          |        |          |        | ○        | ○      |          |        | ○        |        | ○        | ○      |          |        |
|                                | PL                   |          |        |          |        | ○        | ○      |          |        | ○        |        | ○        | ○      |          |        |
| Pump motor circuit             | Pump motor           |          |        | ○        | ○      | ○        | ○      |          |        |          |        | ○        | ○      |          |        |
|                                | MTT wire harness     |          |        |          |        | ○        | ○      | ⊖        |        |          |        |          |        |          |        |
|                                | MT+ wire harness     |          |        | ○        |        |          |        |          |        |          |        |          |        |          |        |
|                                | MT- wire harness     |          |        | ○        |        |          |        |          |        |          |        |          |        |          |        |
| Accumulator malfunction        |                      |          |        |          |        |          |        |          |        |          |        | ○        | ○      |          |        |
| Motor relay circuit            | MR1 open circuit     |          |        |          |        |          |        | ○        |        |          |        |          |        |          |        |
|                                | MR2 open circuit     |          |        |          |        |          |        | ○        |        |          |        |          |        |          |        |
|                                | MR1 welded contact   |          |        |          |        | ○        | ○      | ○        |        |          |        |          |        |          |        |
|                                | MR2 welded contact   |          |        |          |        | ○        | ○      | ○        |        |          |        |          |        |          |        |
| Hydraulic brake booster        | Pressure leaks       |          |        |          |        | ○        | ○      |          |        |          |        | ○        | ○      |          |        |
| Power source*                  | IG2 open circuit     | ○        |        |          |        |          |        |          |        |          |        |          |        |          |        |
| ECU                            | Power supply circuit |          |        |          |        |          |        |          |        |          |        |          |        | ○        |        |

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