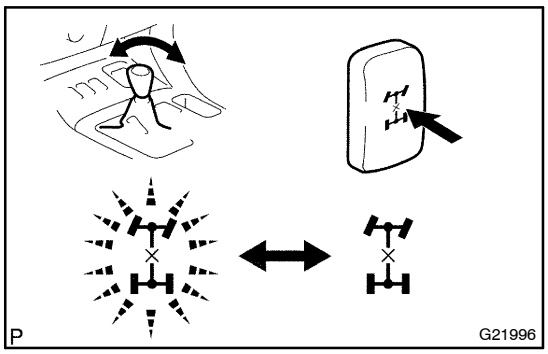
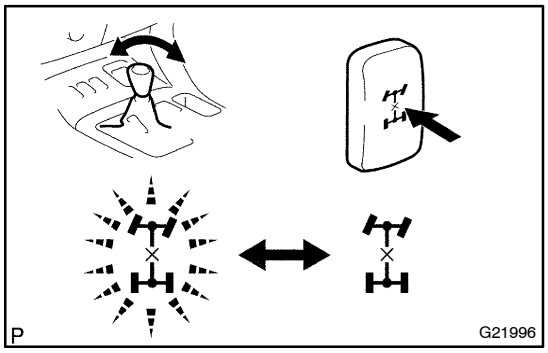
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INSPECTION



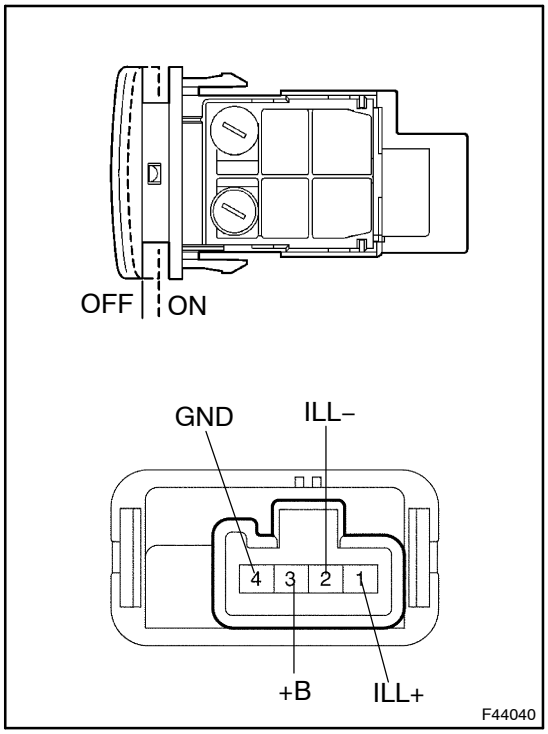
1. INSPECT H4 (Differential lock ”FREE”) ⇔ H4 (Differential lock ”LOCK”) SHIFT

(a) Start the engine, and the differential lock switch is in ”OFF” position.
(b) Operate the transfer shift lever to ”L4” position.
(c) Check that the center diff. lock indicator light comes on after pressing the differential lock switch for 2 seconds. Check that the center diff. lock indicator light goes off after pressing the differential lock switch for 2 seconds.



2. INSPECT L4 (Differential lock ”FREE”) ⇔ L4 (Differential lock ”LOCK”) SHIFT

(a) Start the engine, and differential lock switch is in ”OFF” position.
(b) Operate the transfer shift lever to ”L4” position.
(c) Check that the center diff. lock indicator light comes on after pressing the differential lock switch for 2 seconds. Check that the center diff. lock indicator light goes off after pressing the differential lock switch for 2 seconds.



3. INSPECT CENTER DIFFERENTIAL LOCK SWITCH CONTINUITY

(a) Remove the instrument panel finish lower panel sub–assy.
(b) Remove the differential lock switch from the instrument panel finish lower sub–assy.
(c) Inspect the continuity between the each terminal.

Switch position	Tester connection	Specified condition
OFF	+B (3) ⇔ GND (4)	No continuity
Hold ON	+B (3) ⇔ GND (4)	Continuity
Illumination	ILL+ (1) ⇔ILL– (2)	Continuity

If continuity is not as specified, replace the differential lock switch or bulb.

4. INSPECT ACTUATOR

NOTICE:

Do as inspect the actuator while overhauling the transfer or as a unit.

(a) Turn the ignition switch OFF and set the parking brake.

(b) Using a rigid rack, jack up the vehicle so that the 4 wheels do not touch on the ground.

(c) Turn the ignition switch ON and check that the front propeller shaft switches free or lock when switching the center differential lock.

Center differential lock switch	Condition of front propeller shaft
Off (center der. free)	Possible to rotate
On (center def. lock)	Impossible to rotate

HINT:

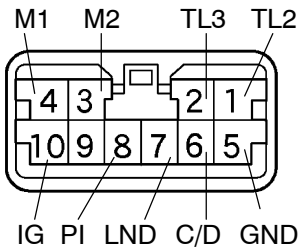
- When the transfer gear is off the position, shift fork of the actuator could not operate.
- When switching is impossible, jack down the vehicle to move it back and forth, and then check it again.

(d) Turn the ignition switch to ON.

(e) Check the operating sound produced by center differential lock switch operation.

If the operating sound cannot be heard, check the four wheel drive control ECU and the wire harness in the next step. When the wire harness and four wheel drive control ECU is normal, replace the actuator.

ECU:



5. INSPECT FOUR WHEEL DRIVE CONTROL ECU

(a) Connect the wire harness side connector to the four wheel drive control ECU and inspect wire harness side connector from the back side, as shown.

STANDARD VALUE OF ECU TERMINAL

Terminals (Symbols)	Condition	STD Voltage (V)
1 (TL2) – 5 (GND)	• Ignition switch ON • while switching from center def. lock to free → Center def. Free operation is completed	With continuity → Without continuity
2 (TL3) – 5 (GND)	• Ignition switch ON • while switching from center def. free to lock → Center def. Free operation is completed	With continuity → Without continuity
3 (M2) – 4(M1)	• Ignition switch ON • Center def. lock → Switching motor to free is in operation	10 – 14
4 (M1) – 3 (M2)	• Ignition switch ON • Center def. lock → Switching motor to lock is in operation	10 – 14
5 (GND) – Body ground	Always	continuity
6 (C/D) – 5 (GND)	• Ignition switch ON • Center differential lock switch OFF → ON	10 – 14 → 1 or less
7 (IND) – 5 (GND)	• Ignition switch ON • Indicator lamp is OFF → ON	10 – 14 → 1 or less
8 (P1) – 5 (GND)	• Ignition switch ON • Indicator lamp is OFF → ON	10 – 14 → 1 or less
10 (IG) – 5 (GND)	Ignition switch ON	10 – 14