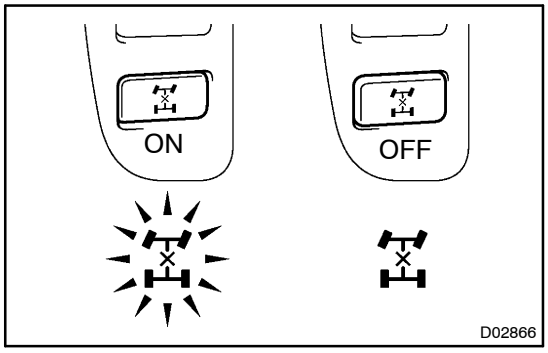
TR04D–02

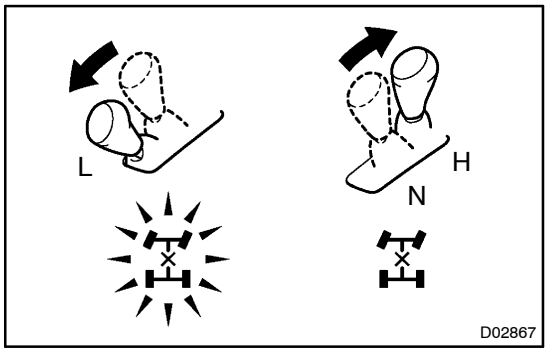
INSPECTION



1. INSPECT SWITCH POSITION

(a) Start the engine, and shift the transfer shift lever to the "H" position.

(b) Check that the center diff. indicator light comes on when the the switch is in "ON" position. Check that the light goes off when the switch is in "OFF" position.

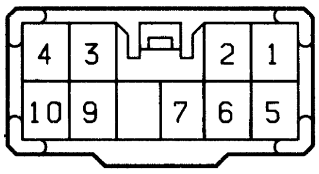


2. INSPECT SHIFT LEVER POSITION

(a) Start the engine, and turn the center diff. lock switch to OFF.

(b) Check that the center diff. indicator light comes on when the transfer shift lever is shifted to the "L" position. Check that the light goes off when the lever is shifted to the "N" or "H" position.

Relay Side:



3. INSPECT CENTER DIFF. LOCK CONTROL RELAY

(a) Check that continuity exists between each terminal, as shown in the table.

Tester connected terminal number	Specified condition
1 – 2	Continuity
2 – 4	Continuity
6 – 7	*

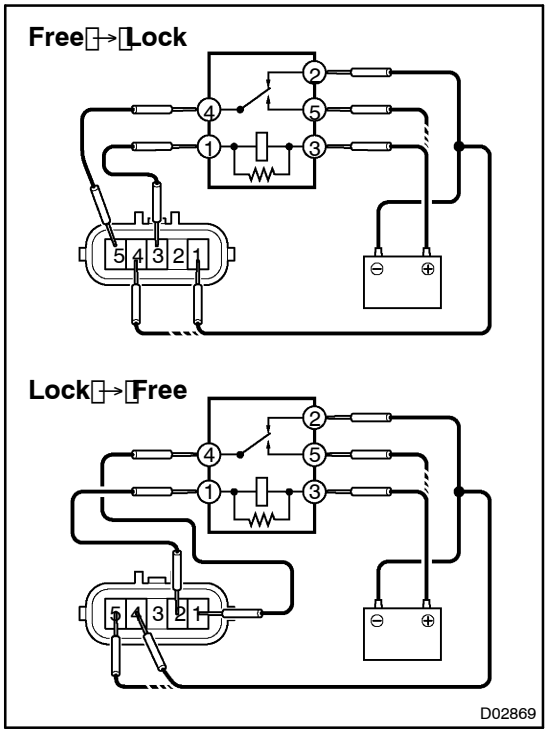
*: There is a diode between the terminals 6 and 7.

If no continuity exists, check that continuity exists when changing the position of ⊕ probe for the position of negative ⊖ prove of tester.

(b) Apply battery voltage between each terminal and check that continuity exists between each terminal, as shown in the table.

Battery voltage applied terminal	Tester connected terminal number	Specified condition
6 (+) – 5 (–)	1 – 3 1 – 2	Continuity No continuity
7 (+) – 2 (–)	9 – 10	No continuity
9 (+) – 10 (–)	3 – 4 2 – 4	Continuity No continuity

If continuity is not as specified, replace the relay.



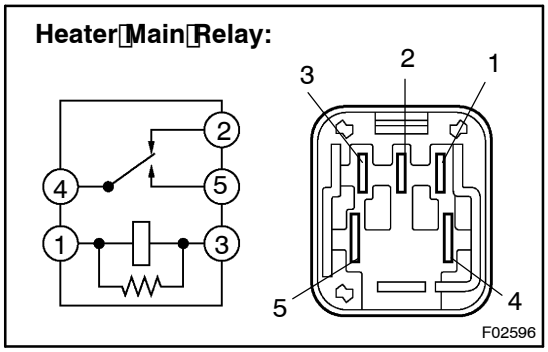
4. INSPECT ACTUATOR OPERATION

(a) Raise up the front wheels, place the stopper under the rear wheels to block them, and pull up the parking brake.

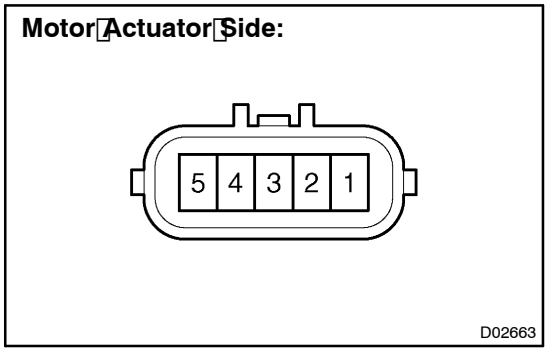
(b) Disconnect the connector of the actuator and connect it to the relay using wire.

(c) Check that the front propeller shaft can be rotated by hand.

Inspection Item	Standard
Center Diff. Free → Lock	Front propeller shaft cannot be rotated
Center Diff. Lock → Free	Front propeller shaft can be rotated.



HINT:
When inspecting the operation described above, use a heater main relay.



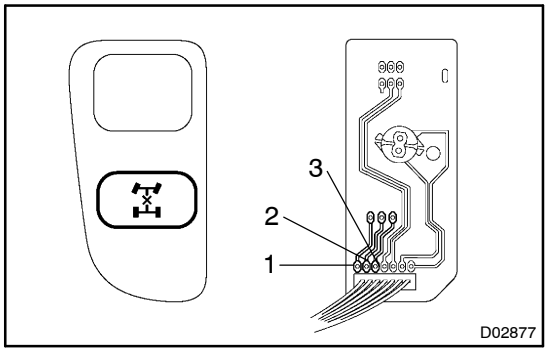
5. INSPECT MOTOR ACTUATOR (MOTOR)

(a) Remove the motor actuator (See page TR–10).

(b) Measure the resistance between the terminals 1 and 5.
Standard resistance: 0.3 – 100 Ω

(c) Measure the resistance between the terminals 1 or 5 and body ground.
Standard resistance: More than 0.5 MΩ

If the resistance value is not as specified, replace the motor actuator.

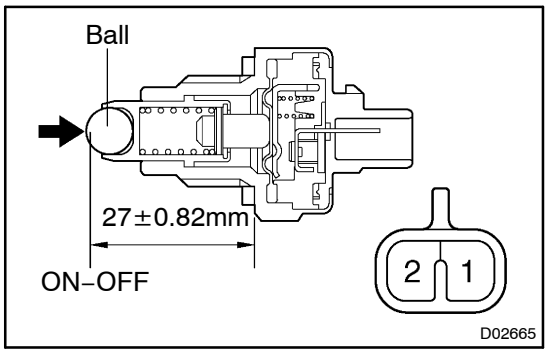


6. INSPECT CENTER DIFF. LOCK SWITCH CONTINUITY

(a) Remove the center diff. lock switch (See page AC–177).

(b) Inspect the continuity between each terminal.

Center diff. lock switch condition	Tester connected terminal number	Specified condition
ON	1 – 2	No continuity
	1 – 3	No continuity
	2 – 3	Continuity
OFF	1 – 2	Continuity
	1 – 3	No continuity
	2 – 3	No continuity



7. INSPECT L AND CENTER DIFF. LOCK INDICATOR SWITCH CONTINUITY

(a) Remove the L and center diff. lock indicator switch (See page TR–100).

(b) Check that continuity exists between terminals 1 and 2 when pushing the ball at the tip of the switch.