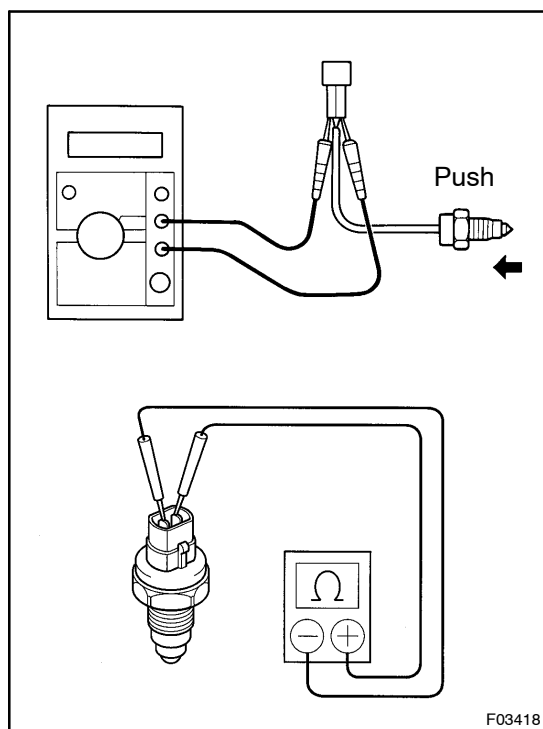




INSPECTION

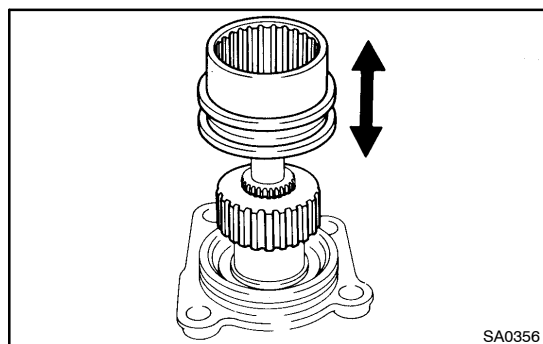
1. INSPECT TRANSFER 4WD POSITION SWITCH

Check that there is continuity between terminals, as shown.

Switch position	Specified condition
Push	Continuity
Free	No continuity

If operation is not as specified, replace the switch.

2. REMOVE A.D.D. ACTUATOR (See page SA-29)

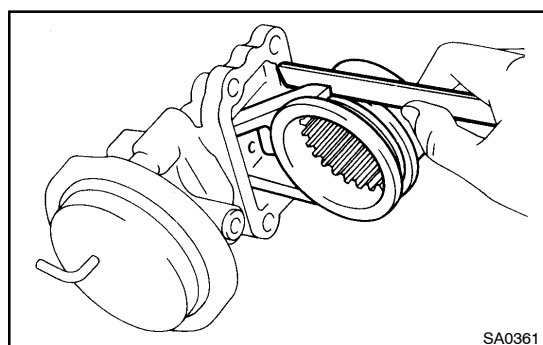


3. INSPECT CLUTCH HUB AND CLUTCH SLEEVE

- (a) Check the wear and damage of the clutch hub and clutch sleeve.

If necessary, replace them.

- (b) Check that clutch sleeve slides smoothly on the clutch hub.



4. MEASURE CLEARANCE OF SLEEVE FORK AND CLUTCH SLEEVE

Using a feeler gauge, measure the clearance between the sleeve fork and clutch sleeve.

Maximum clearance: 0.35 mm (0.0138 in.)

If the clearance exceeds the maximum, replace the fork or sleeve

5. INSPECT A.D.D. ACTUATOR

- (a) Disconnect the actuator connector.
- (b) Measure the resistance between the terminals 2 and 6.
Standard resistance: 0.3 – 100 Ω
- (c) Measure the resistance between the terminals 2 or 6 and body ground.

Standard resistance: More than 0.5 MΩ

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

6. INSPECT A.D.D. ACTUATOR

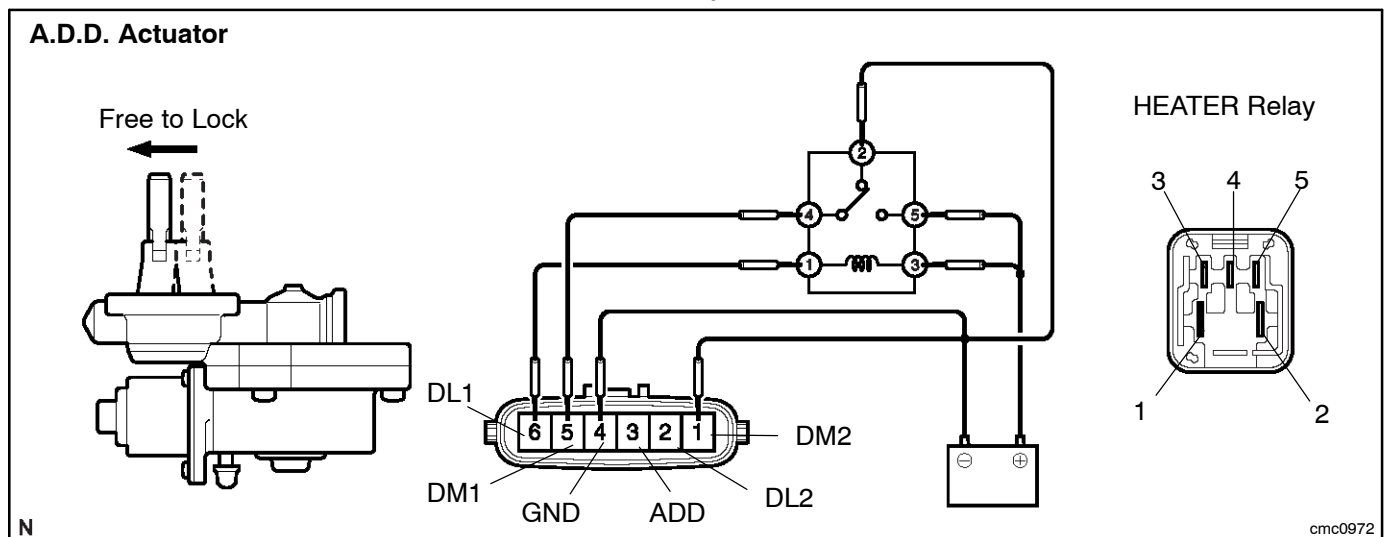
- (a) Check Free to Lock switch
Connect lines via a relay as shown in the illustration, then check that the actuator fork moves from the Free to Lock position.

NOTICE:

When inspecting the actuator, make sure to operate it with the lines connected via a relay. If the lines are not connected via a relay and battery voltage is directly applied to the actuator, the actuator will be damaged.

HINT:

When inspecting the operation described above, use the fuel pump relay.

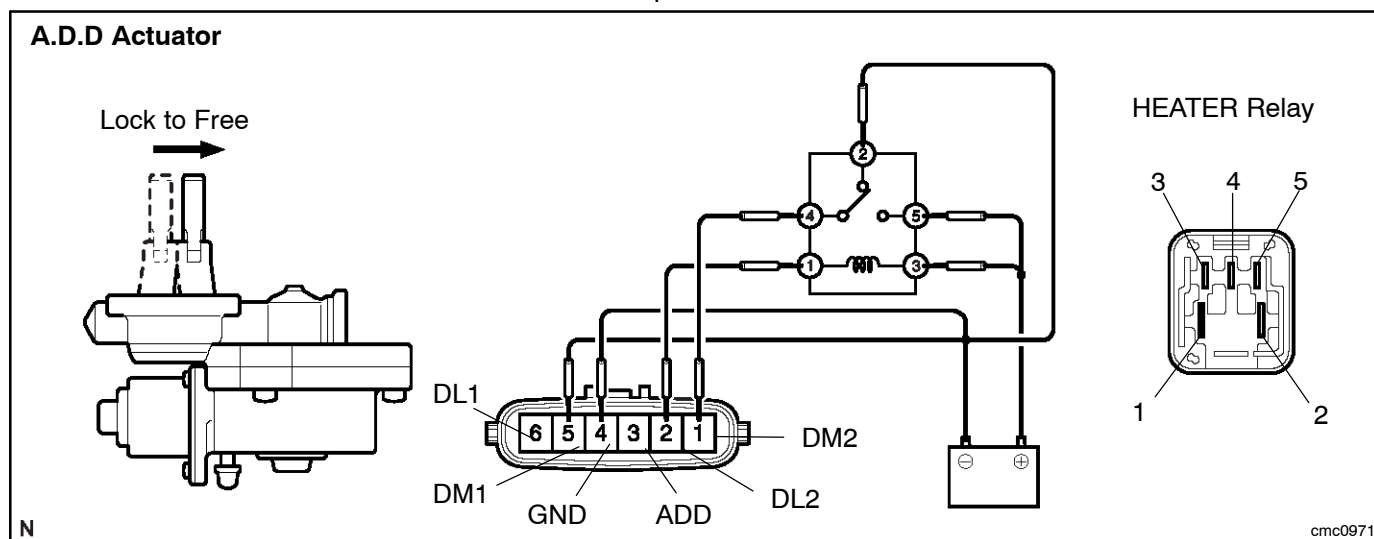


- (1) After the Free to Lock switch is complete, inspect the A.D.D. detection switch and limit switch.

Standard resistance:

Tester Connections	Conditions	Specified Conditions
3 (ADD) – 4 (GND)	After Free to Lock switch is complete	Below 12.5 Ω
2 (DL2) – 4 (GND)		Below 12.5 Ω
6 (DL1) – 4 (GND)		0.5 M Ω or higher

- (b) Check Lock to Free switch:
Connect lines via a relay as shown in the illustration, then check that the actuator fork moves from the Lock to Free position.



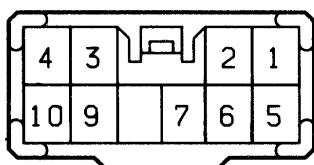
- (1) After the Lock to Free switch is complete, inspect the A.D.D. detection switch and limit switch.

Standard resistance:

Tester Connections	Conditions	Specified Conditions
3 (ADD) - 4 (GND)	After Lock to Free switch is complete	0.5 M Ω or higher
2 (DL2) - 4 (GND)		0.5 M Ω or higher
6 (DL1) - 4 (GND)		Below 12.5 Ω

If there is a malfunction, replace the A.D.D. actuator. If this actuator is normal, replace the 4WD control ECU.

Relay side:



Z15367

7. INSPECT A.D.D. RELAY

- (a) Check the continuity between each terminal, as shown in the chart.

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 $\oplus$ probe for the position of negative $\ominus$ probe of tester.

- (b) Apply battery positive voltage between each terminal and check the continuity between each terminal, as shown in the chart.

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

If continuity is not as specified, replace the relay.