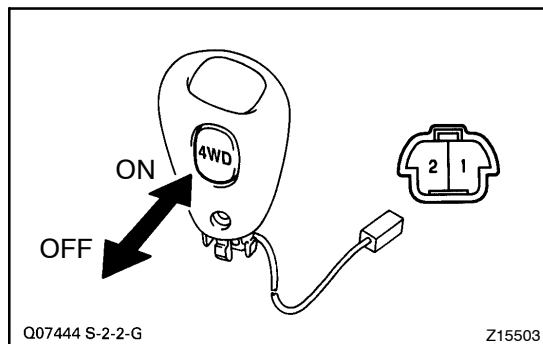


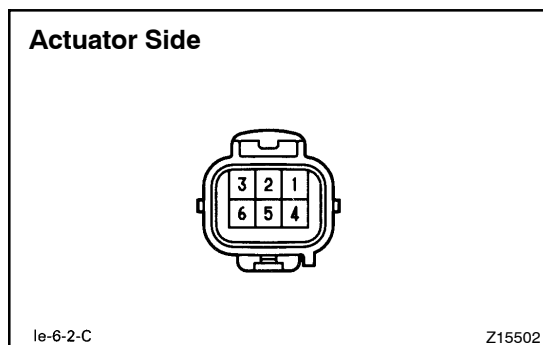


INSPECTION

1. INSPECT 2 - 4 SELECTOR SWITCH CONTINUITY

Switch position	Tester connection to terminal number	Specified condition
OFF	1 - 2	No continuity
ON	1 - 2	Continuity

If continuity is not as specified, replace the shift lever knob.



2. INSPECT ACTUATOR RESISTANCE

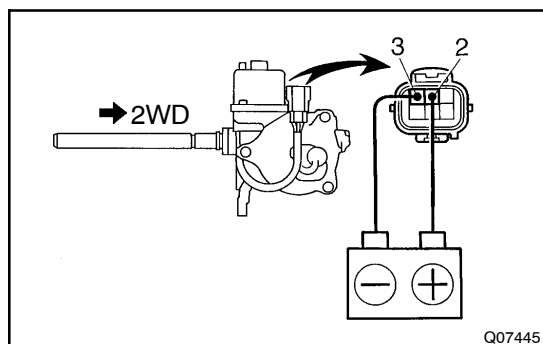
- (a) Using an ohmmeter, measure the resistance between terminals 2 and 3.

Standard resistance: 0.3 - 100 Ω

- (b) Using an ohmmeter, measure the resistance between terminals 2 or 3 and body ground.

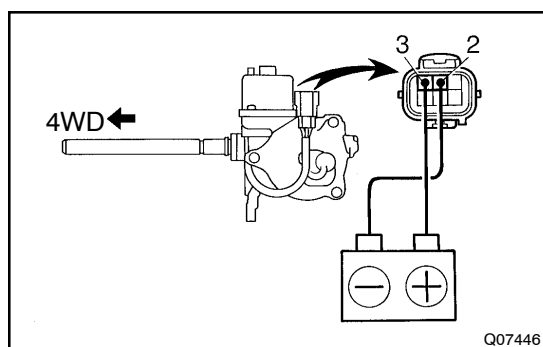
Standard resistance: More than 0.5 M Ω

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



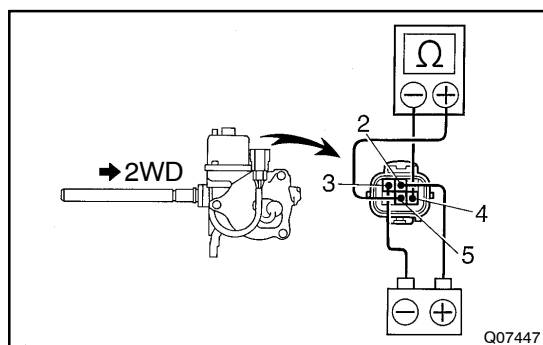
3. INSPECT ACTUATOR OPERATION

- (a) Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 3, then check that the actuator fork shaft moves to 2WD position.



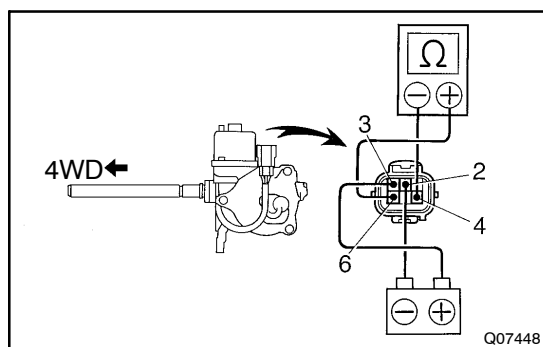
- (b) Connect the positive (+) lead from the battery to terminal 3 and the negative (-) lead to terminal 2, then check that the actuator fork shaft moves to 4WD position.

If operation is not as specified, replace the actuator assembly.



4. INSPECT ACTUATOR LIMIT SWITCH CONTINUITY

- (a) Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 3.
- (b) Connect the positive (+) lead from the ohmmeter to terminal 5 and the negative (-) lead to terminal 4.
- (c) Check that there is continuity between terminals 4 and 5.



- (d) Connect the positive (+) lead from the battery to terminal 3 and the negative (-) lead to terminal 2.
- (e) Connect the positive (+) lead from the ohmmeter to terminal 6 and the negative (-) lead to terminal 4.
- (f) Check that there is continuity between terminal 4 and 6. If continuity is not as specified, replace the actuator assembly.

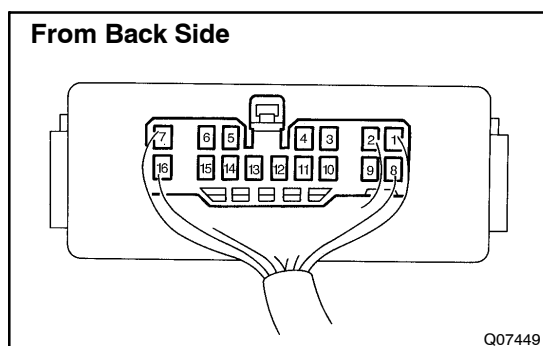
5. INSPECT NO.1 VEHICLE SPEED SENSOR

(See page [BE-38](#))

6. INSPECT 4WD INDICATOR LAMP

Check the combination meter.

(See page [BE-38](#))



7. (w/ One touch 2 - 4 selector system: 4WD CONTROL ECU INSPECTION)

INSPECT 4WD CONTROL ECU

Connect the wire harness side connector to the ECU and inspect wire harness side connector from the back side, as shown.

TERMINAL OF ECU

Terminals (Symbols)	Condition	STD Voltage (V)
1 (IND) - 8 (GND)	- Engine Running 2WD → 4WD (4WD indicator light light up)	12 ~ 16 V → 1.2 V or less
3 (M1) - 2 (M2)	- Ignition switch ON 2WD → 4WD (2 - 4 selector switch ON or transfer shift lever L4 position)	0.5V or less → 10 ~ 14 V (for about 5 second) then less than 0.5 V
	4WD (2 - 4 selector switch ON or transfer shift lever L4 position) → 2WD (2 - 4 selector switch OFF and transfer shift lever H position)	10 ~ 14 V (for about 5 second) then less than 0.5 V
	2WD (2 - 4 selector switch OFF and transfer shift lever H position)	10 ~ 14 V (for about 5 second) then less than 0.5 V
4 (V4) - 8 (GND)	- Ignition switch ON 4WD (2 - 4 selector switch ON or transfer shift lever H position or 2 - 4 selector switch OFF and transfer shift lever L4 position) - A.D.D. VSV Temp. 20 °C (68 °F)	9 V or less (after 0.1 second)
	- Ignition switch ON 4WD (2 - 4 selector switch ON or transfer shift lever H position or 2 - 4 selector switch OFF and transfer shift lever L4 position) - A.D.D. VSV Temp. 120 °C (248 °F)	13 V or less (after 0.1 second)

5 (SPD) – 8 (GND)	- Ignition switch ON - During driving	Repeatedly changes from Below 0.5 V or less to 4 V or more
6 (4WD) – 8 (GND)	- Ignition switch ON 4WD (2 – 4 selector switch ON or transfer shift lever H position or 2 – 4 selector switch OFF and transfer shift lever L4 position)	2 V or less
8 (GND) – Body Ground	Constant	Continuity
9 (RL-2) – 8 (GND)	- Ignition switch ON 4WD (2 – 4 selector switch ON or transfer shift lever L4 position) → 2WD (2 – 4 selector switch OFF and transfer shift lever H position)	0.5 V or less → 10 ~ 14 V then 0.5 (after 5 second)
10 (RL-1) – 8 (GND)	- Ignition switch ON 2WD (2 – 4 selector switch OFF and transfer shift lever H position) → 4WD (2 – 4 selector switch ON or transfer shift lever L4 position)	0.5 V or less → 10 ~ 14 V then 0.5 (after 5 second)
11 (V2) – 8 (GND)	- Ignition switch ON 2WD (2 – 4 selector switch OFF and transfer shift lever H position) - A.D.D. VSV Temp. 20 °C (68 °F)	9 V or less (after 0.1 second)
	- Ignition switch ON 2WD (2 – 4 selector switch OFF and transfer shift lever H position) - A.D.D. VSV Temp. 120 °C (248 °F)	13 V or less (after 0.1 second)
14 (L4) – 8 (GND)	Transfer shift lever H2 (2 – 4 selector switch OFF and transfer shift lever H position) → L4	10 ~ 14 V → 0.5 V or less
15 (2 – 4) – 8 (GND)	2 – 4 selector switch OFF → ON	10 ~ 14 V → 2 V or less
16 (IG) – 8 (GND)	Constant	10 ~ 14 V