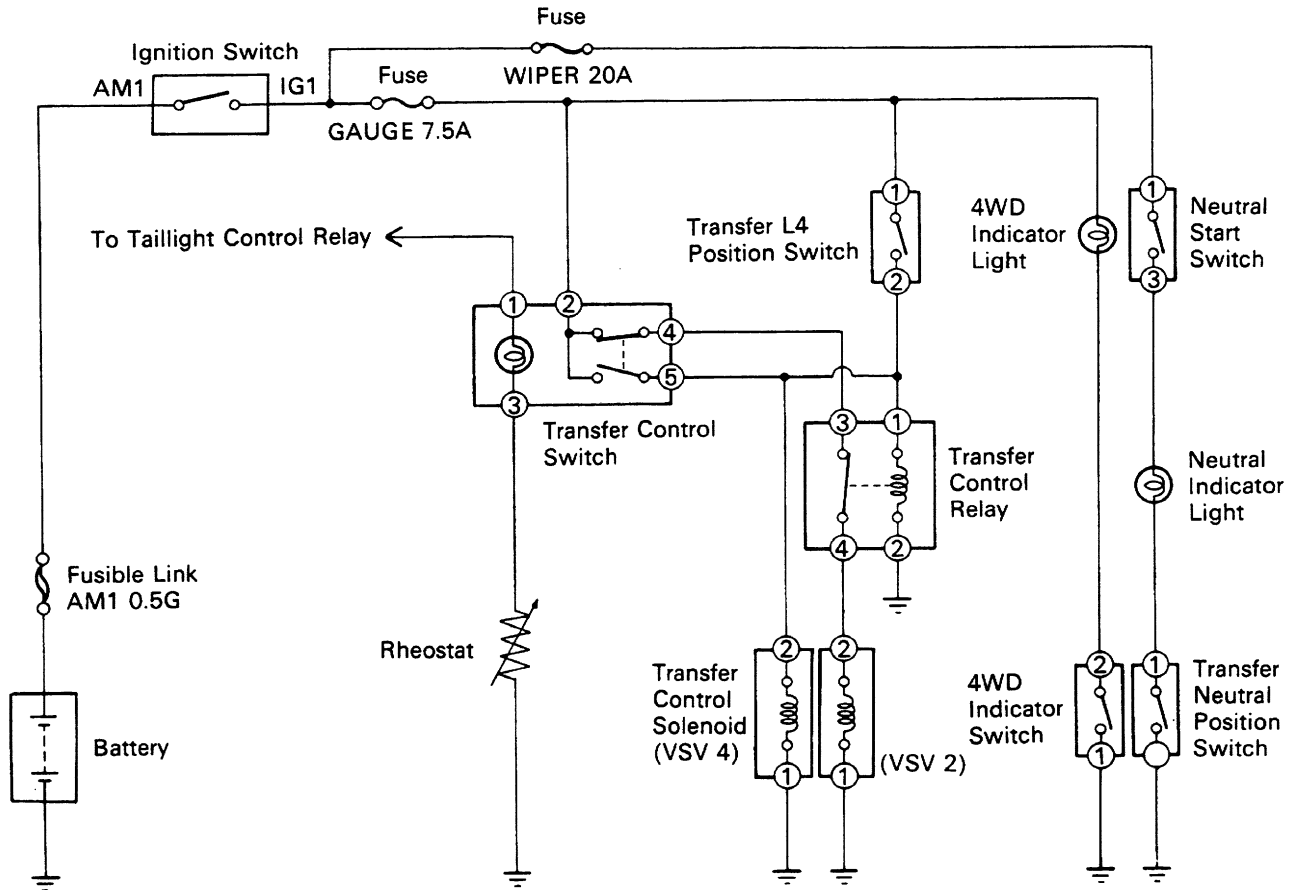
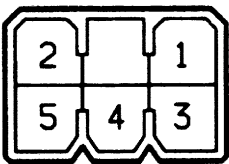


ELECTRICAL CONTROL SYSTEM

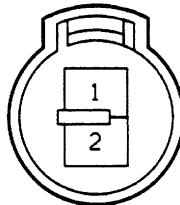
ELECTRICAL CONTROL SYSTEM CIRCUIT



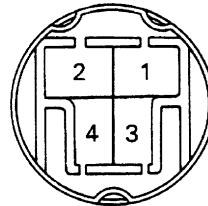
Transfer Control Switch



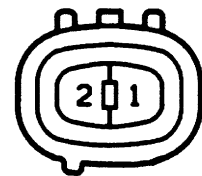
Transfer L4 Position Switch



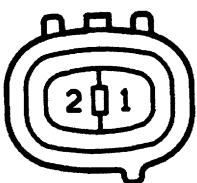
Transfer Control Relay



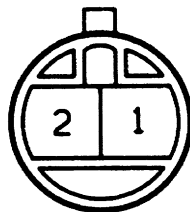
Transfer Control Solenoid (VSV 2)



Transfer Control Solenoid (VSV 4)



4WD Indicator Switch

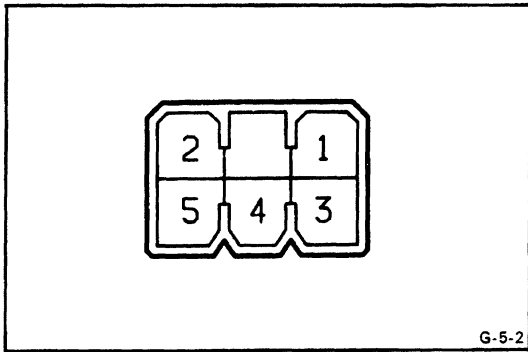


Neutral Start Switch



Transfer Neutral Position Switch





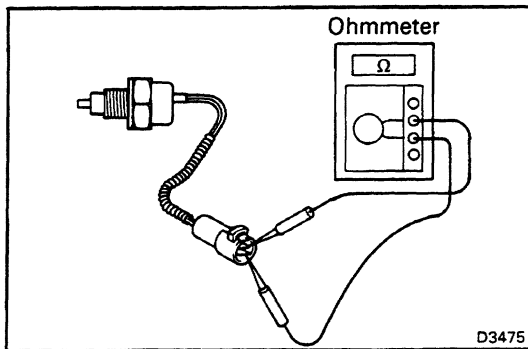
INSPECTION OF ELECTRICAL CONTROL SYSTEM COMPONENTS

1. INSPECT TRANSFER CONTROL SWITCH

Using an ohmmeter, check the switch continuity between terminals.

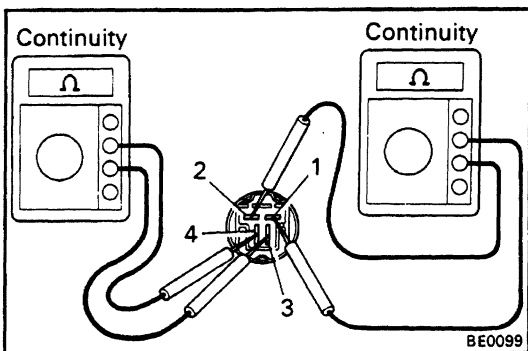
Switch position \ Terminal	1	2	3	4	5
LOCK (H4)	○	○	○	○	○
FREE (H2)	○	○	○	○	○

If continuity is not as specified, replace the switch.



2. INSPECT TRANSFER L4 POSITION SWITCH

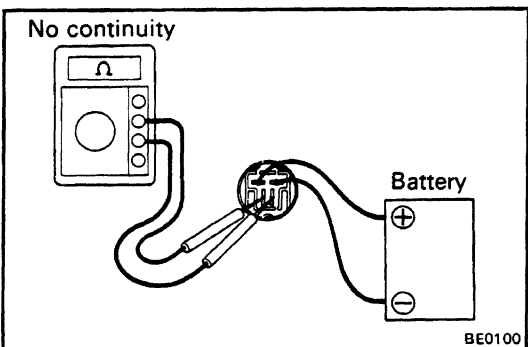
- Check that there is continuity between terminals when the switch is pushed (transfer in "H4" position).
 - Check that there is no continuity between terminals when the switch is free (transfer in "H2" position).
- If continuity is not as specified, replace the switch.



3. INSPECT TRANSFER CONTROL RELAY

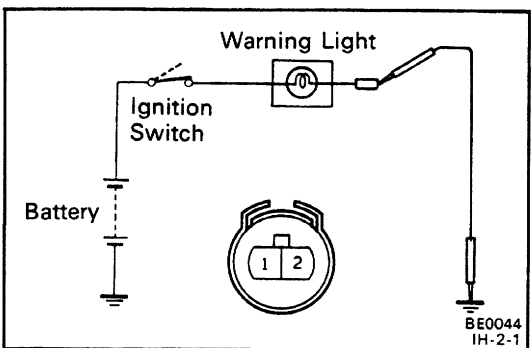
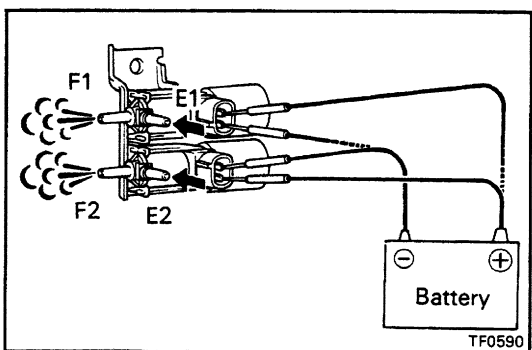
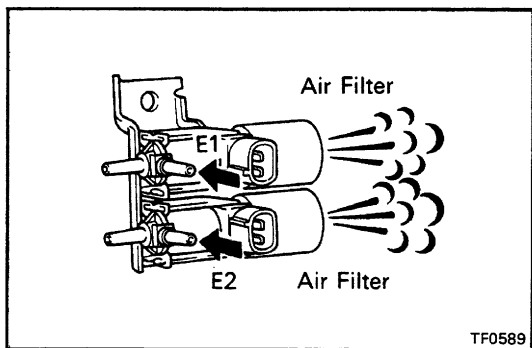
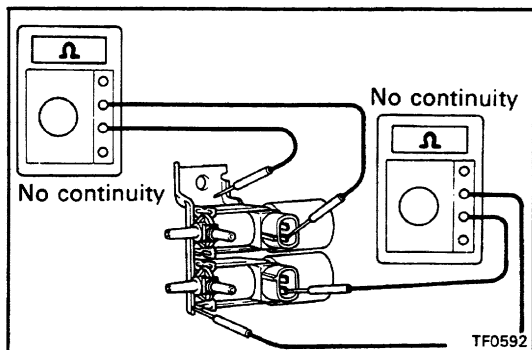
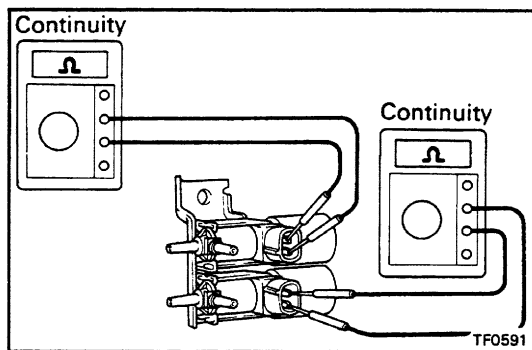
A. Inspect Relay Continuity

- Using an ohmmeter, check that there is continuity between terminals 1 and 2.
 - Check that there is no continuity between terminals 3 and 4.
- If continuity is not as specified, replace the relay.



B. Inspect Relay Operation

- Apply battery voltage across terminals 1 and 2.
 - Using an ohmmeter, check that there is no continuity between terminals 3 and 4.
- If operation is not as specified, replace the relay.



4. INSPECT TRANSFER CONTROL SOLENOIDS

A. Inspect solenoid for open circuit

Using an ohmmeter, check that there is continuity between terminals of each solenoid.

Resistance: 37 – 44Ω at 20°C (68°F)

If there is no continuity, replace the solenoid.

B. Inspect solenoid for ground –

Using an ohmmeter, check that there is no continuity between each terminal and the body.

If there is continuity, replace the solenoid.

C. Inspect solenoid operation

(a) Check that air flows from pipe E1 (E2) to air filter.

(b) Apply battery voltage across the terminals of each solenoid.

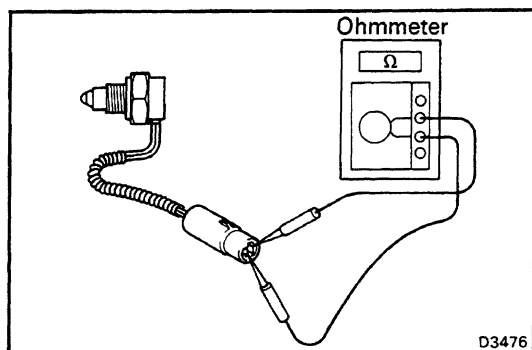
(c) Check that air flows from pipe E1 (E2) to pipe F1 (F2).

If operation is not as specified, replace the solenoid.

5. INSPECT 4WD INDICATOR LIGHT

(a) Disconnect the connector from the 4WD indicator switch. Connect terminal 2 of the 4WD indicator switch and body ground.

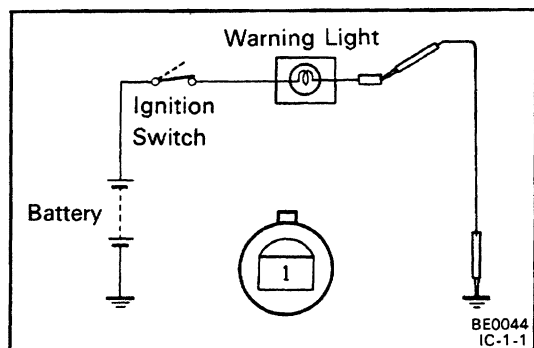
(b) Turn the ignition switch ON, check that the light lights. If the indicator light does not light, test the bulb.



6. INSPECT 4WD INDICATOR SWITCH

- Check that there is continuity between terminals when the switch is pushed (transfer in the "4WD" position)
- Check that there is no continuity between terminals when the switch is free (transfer not in "4WD" position).

If continuity is not as specified, replace the switch.



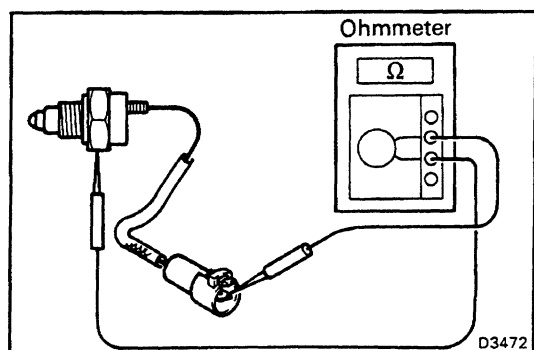
7. INSPECT NEUTRAL INDICATOR LIGHT –

- Disconnect the connector from the transfer neutral position switch. Connect the wire harness side connector terminal and body ground.
- Turn the ignition switch ON, check that the light lights when neutral start switch is in the "N" position.

If the indicator light does not light, test the bulb and neutral position switch.

8. INSPECT NEUTRAL START SWITCH

(See page [AT-24](#))



9. INSPECT TRANSFER NEUTRAL POSITION SWITCH

- Check that there is continuity between terminal and switch body when the switch is pushed (transfer in the "N" position).
- Check that there is no continuity between terminal and switch body when the switch is free (transfer not in "N" position).

If continuity is not as specified, replace the switch.