

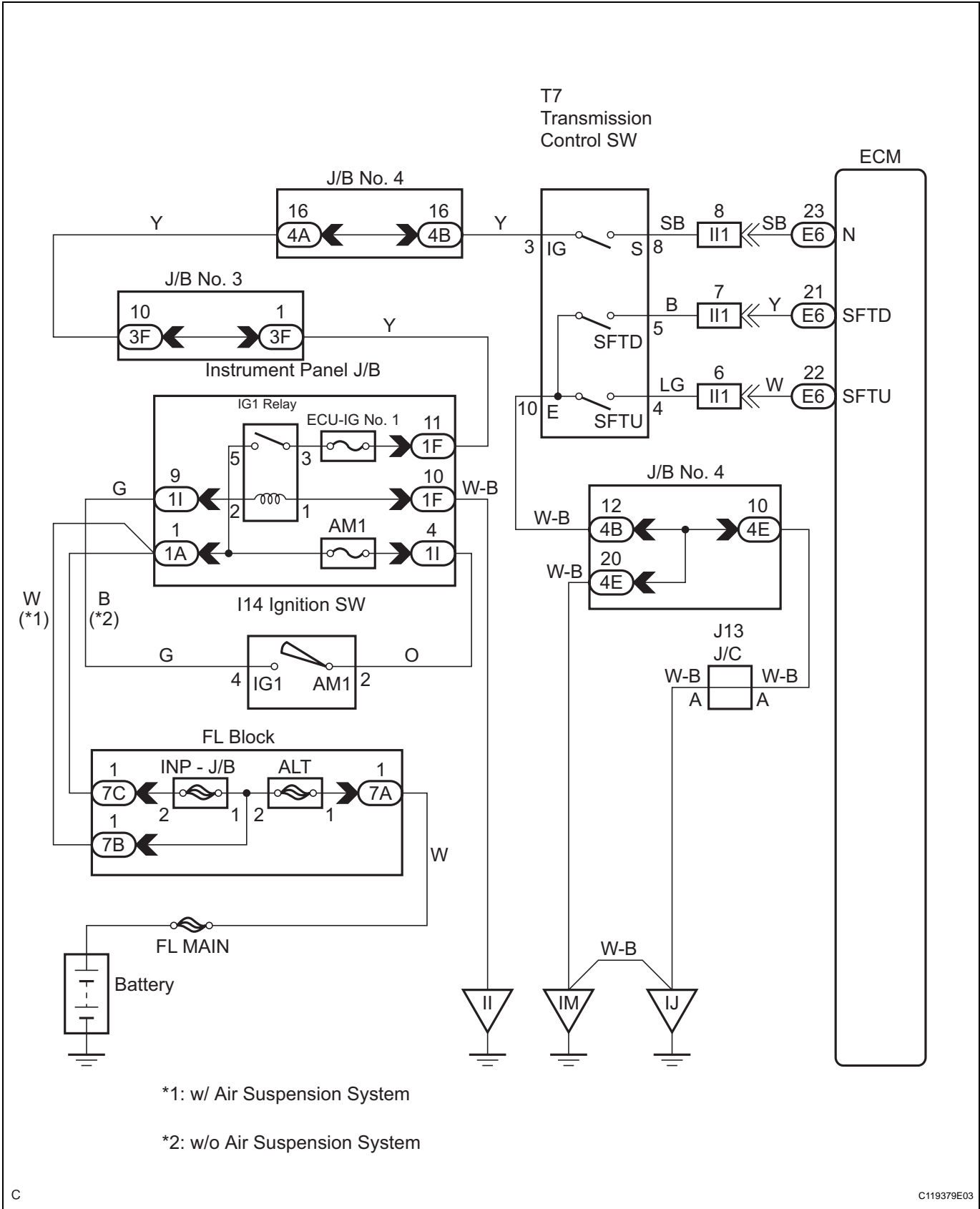
Transmission Control Switch Circuit

DESCRIPTION

When moving the shift lever into the S position using the transmission control switch, it is possible to switch the shift range position between "1" (first range) and "5" (fifth range).

Shifting up "+" once raises one shift range position, and shifting down "-" lowers one shift range position.

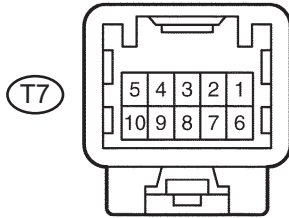
WIRING DIAGRAM



AX

1 CHECK HARNESS AND CONNECTOR (BATTERY - TRANSMISSION CONTROL SWITCH)

Wire Harness Side:
(Connector Front View):



G026418E01

- (a) Disconnect the transmission control switch connector of shift lock control unit assembly.
- (b) Measure the voltage according to the value(s) in the table below.

Voltage

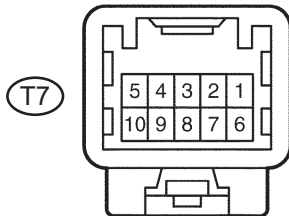
| Switch Condition | Tester Connection | Specified Condition |
|------------------|-------------------|---------------------|
| IG switch ON | 3 - Body ground | 10 to 14 V |
| IG switch OFF | ↑ | Below 1 V |

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

2 CHECK HARNESS AND CONNECTOR (TRANSMISSION @ CONTROL SWITCH - BODY GROUND)

Wire Harness Side:
(Connector Front View):



G026418E01

- (a) Measure the resistance according to the value(s) in the table below.

Resistance

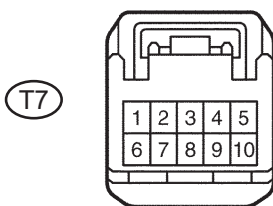
| Tester Connection | Specified Condition |
|-------------------|---------------------|
| 10 - Body ground | Below 1 Ω |

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

3 INSPECT TRANSMISSION FLOOR SHIFT ASSEMBLY

Switch Side:
(Connector Front View):



G026419E01

- (a) Measure resistance between each terminal of shift lock control unit assembly when the shift lever is moved to each position.

Resistance (Check for short)

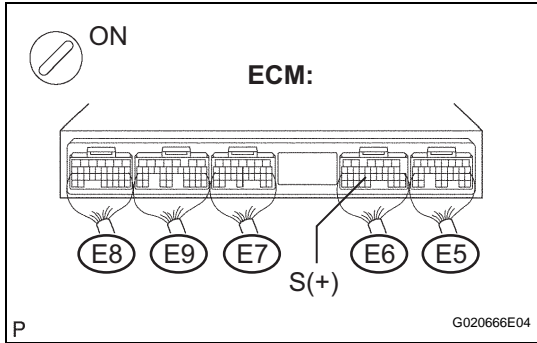
| Shift Position | Tester Connection | Specified Condition |
|--|-------------------|---------------------|
| S, "+" and "-" | 3 - 8 | Below 1 Ω |
| Except S, "+" and "-" | ↑ | 10 kΩ or higher |
| Press continuously "+" (Up shift) | 4 - 10 | Below 1 Ω |
| S | ↑ | 10 kΩ or higher |
| Press continuously "-" (Down shift) | 5 - 10 | Below 1 Ω |
| S | ↑ | 10 kΩ or higher |

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REPLACE TRANSMISSION FLOOR SHIFT ASSEMBLY

OK

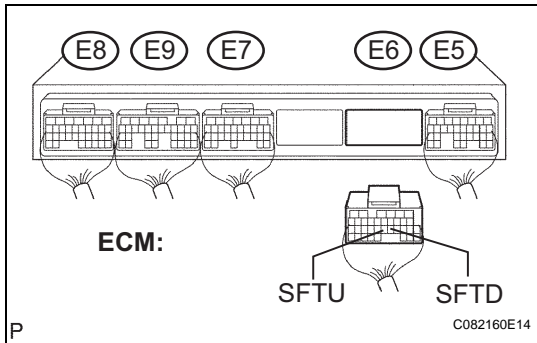
4 CHECK HARNESS AND CONNECTOR (TRANSMISSION CONTROL SWITCH - ECM)



- (a) Connect the transmission control switch connector of shift lock control unit assembly.
- (b) Turn the ignition switch to the ON position, and measure the voltage according to the value(s) in the table below when the shift lever is moved to each position.

Voltage

| Shift Position | Tester Connection | Specified Condition |
|-----------------------|---------------------------|---------------------|
| S, "+" and "-" | E6 - 23 (S) - Body ground | 10 to 14 V |
| Except S, "+" and "-" | ↑ | Below 1 V |



- (c) Turn the ignition switch to the LOCK position.
- (d) Disconnect the ECM connector.
- (e) Measure the resistance according to the value(s) in the table below when the shift lever is moved to each position.

Resistance

| Shift Position | Tester Connection | Specified Condition |
|-------------------------------------|------------------------------|---------------------|
| Press continuously "+" (Up shift) | E6 - 22 (SFTU) - Body ground | Below 1 Ω |
| S | ↑ | 10 kΩ or higher |
| Press continuously "-" (Down shift) | E6 - 21 (SFTD) - Body ground | Below 1 Ω |
| S | ↑ | 10 kΩ or higher |

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE