

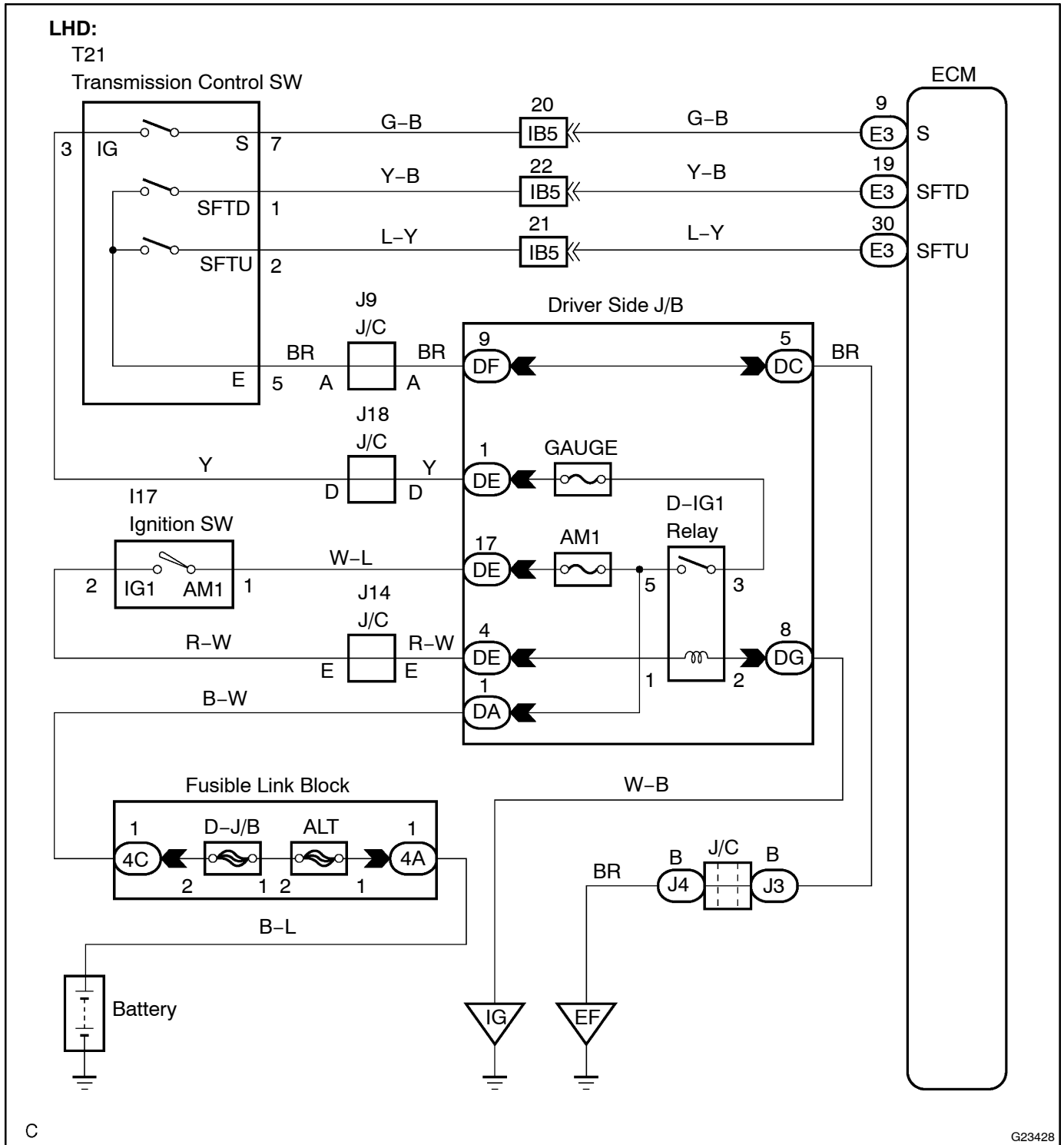
TRANSMISSION CONTROL SWITCH CIRCUIT

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 "6" (sixth range).

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

WIRING DIAGRAM

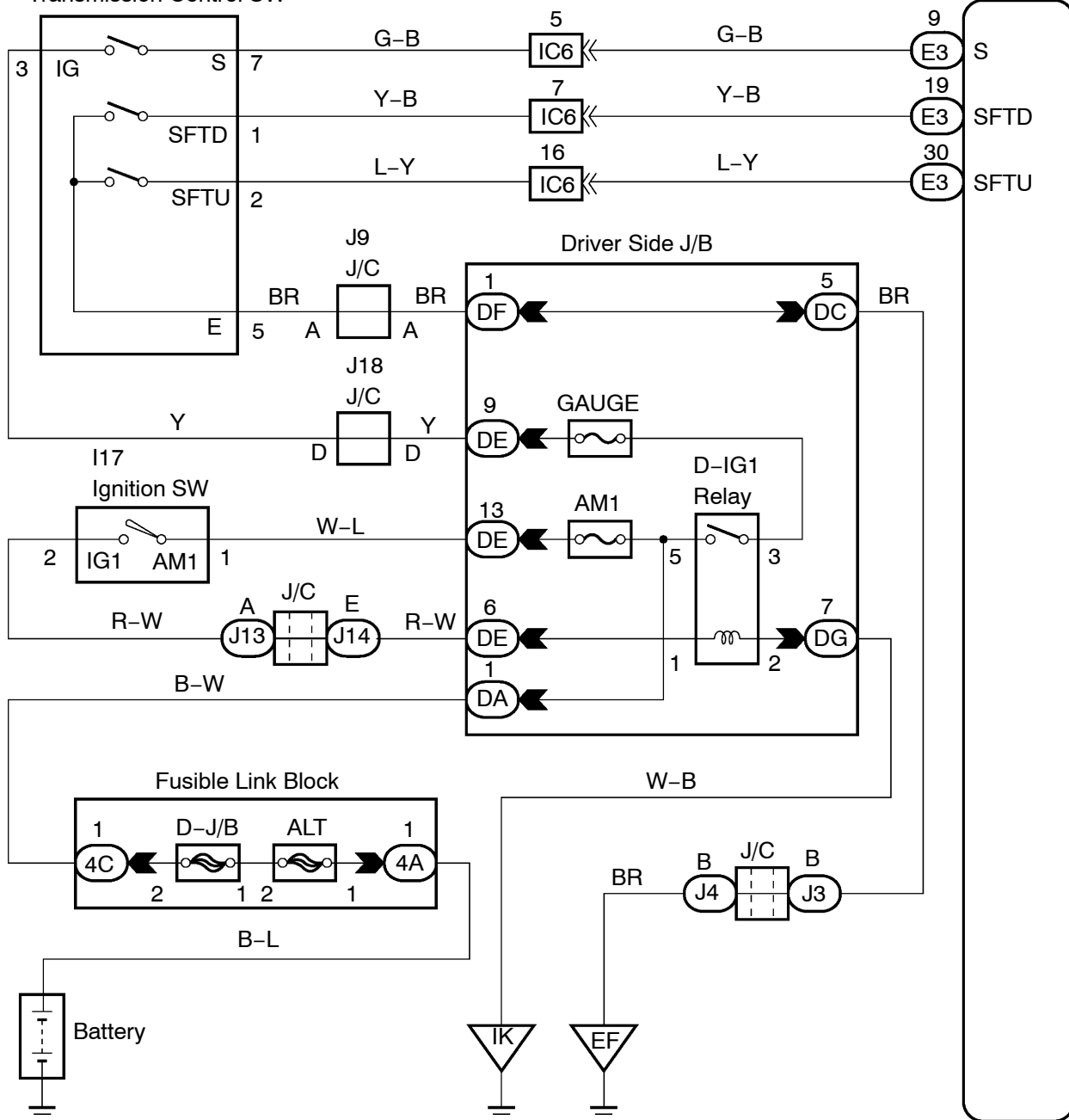


RHD:

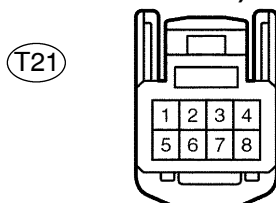
T21

Transmission Control SW

ECM



INSPECTION PROCEDURE

1 CHECK HARNESS AND CONNECTOR(BATTERY – TRANSMISSION CONTROL SWITCH)**Wire Harness Side:
(Connector Front View):**

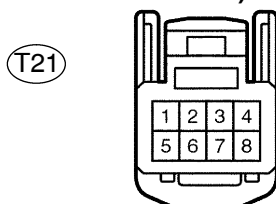
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- (a) Disconnect the transmission control switch connector of shift lock control unit assy.
- (b) Measure the voltage according to the value(s) in the table below.

Standard:

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 (SEE PAGE 01-44)****OK****2 CHECK HARNESS AND CONNECTOR(TRANSMISSION CONTROL SWITCH – BODY GROUND)****Wire Harness Side:
(Connector Front View):**

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

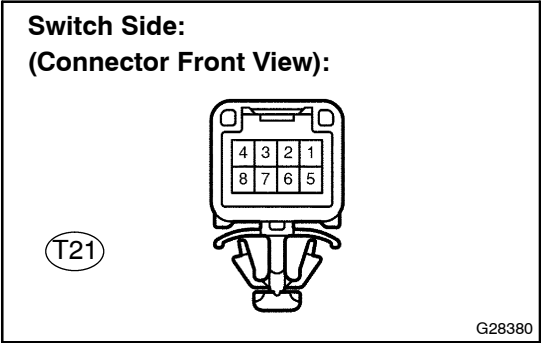
Standard:

Tester Connection	Specified Condition
5 – Body ground	Below 1 Ω

NG**REPAIR OR REPLACE HARNESS OR CONNECTOR (SEE PAGE 01-44)****OK**

3

INSPECT TRANSMISSION CONTROL SWITCH



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

Standard:

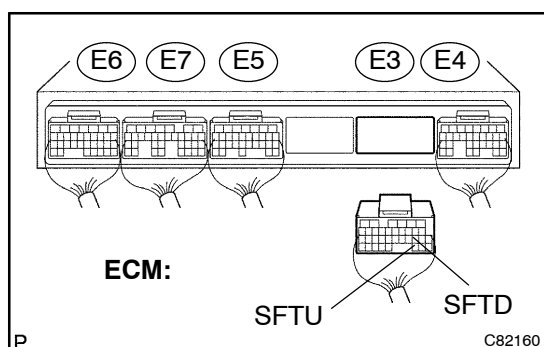
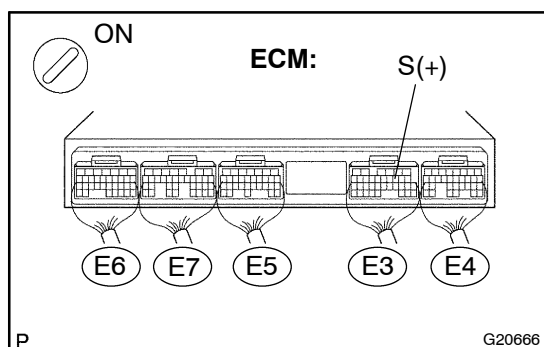
Shift Position	Tester Connection	Specified Condition
S, "+" and "-"	3 – 7	Below 1 Ω
Except S, "+" and "-"	↑	10 kΩ or higher
Press continuously "+"	2 – 5	Below 1 Ω
S	↑	10 kΩ or higher
Press continuously "-"	1 – 5	Below 1 Ω
S	↑	10 kΩ or higher

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REPLACE TRANSMISSION CONTROL SWITCH
(SEE PAGE 40-42)

OK

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



- (a) Connect the transmission control switch connector of shift lock control unit assy.
- (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.

Standard:

Shift Position	Tester Connection	Specified Condition
S, "+" and "-"	E3 - 9 (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.

Standard:

Shift Position	Tester Connection	Specified Condition
Press continuously "+" (Up shift)	E3 - 30 (SFTU) - Body ground	Below 1 Ω
S	↑	10 kΩ or higher
Press continuously "-" (Down shift)	E3 - 19 (SFTD) - Body ground	Below 1 Ω
S	↑	10 kΩ or higher

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**REPAIR OR REPLACE HARNESS OR
CONNECTOR (SEE PAGE 01-44)**

OK

**PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-539)**