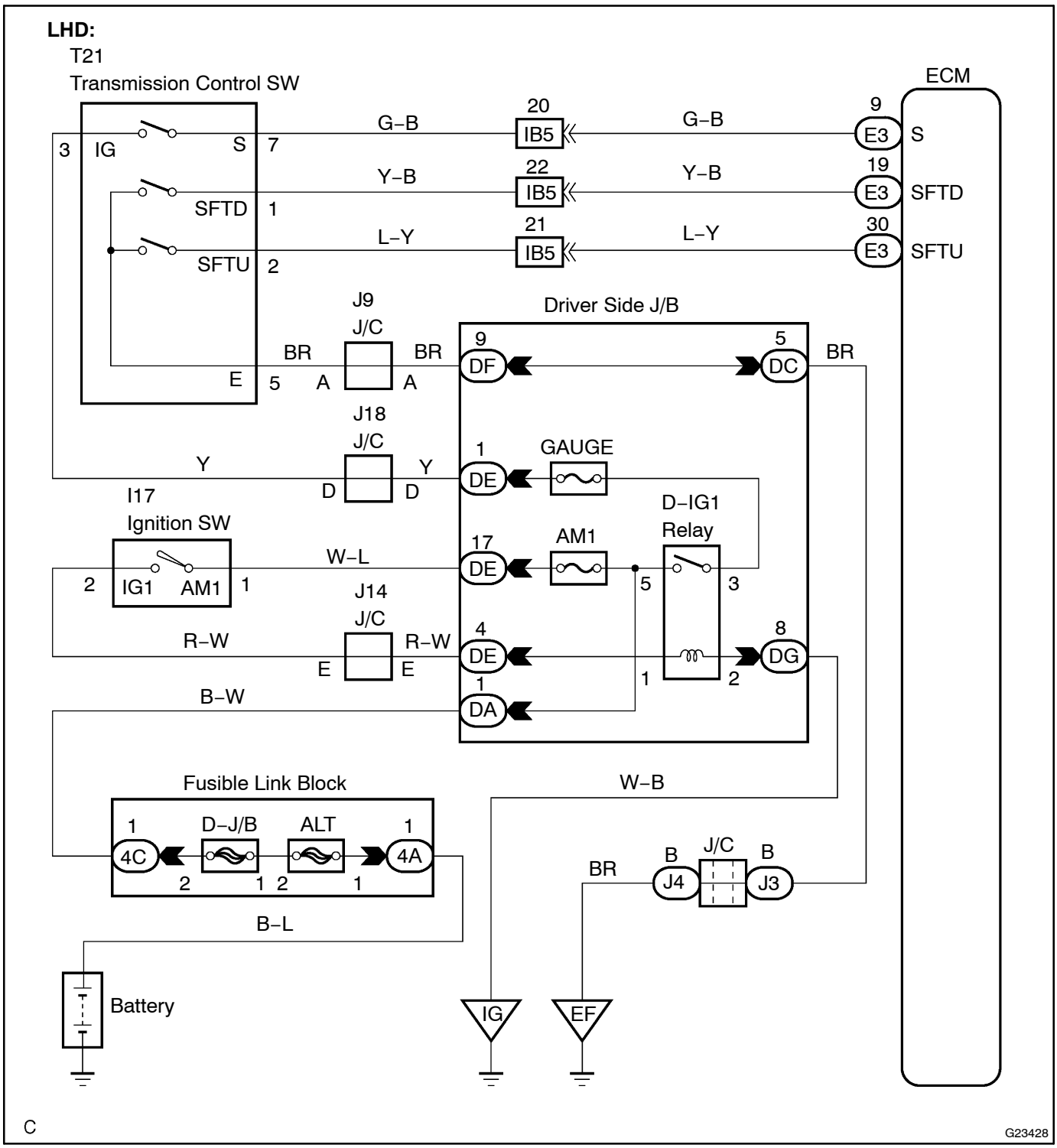
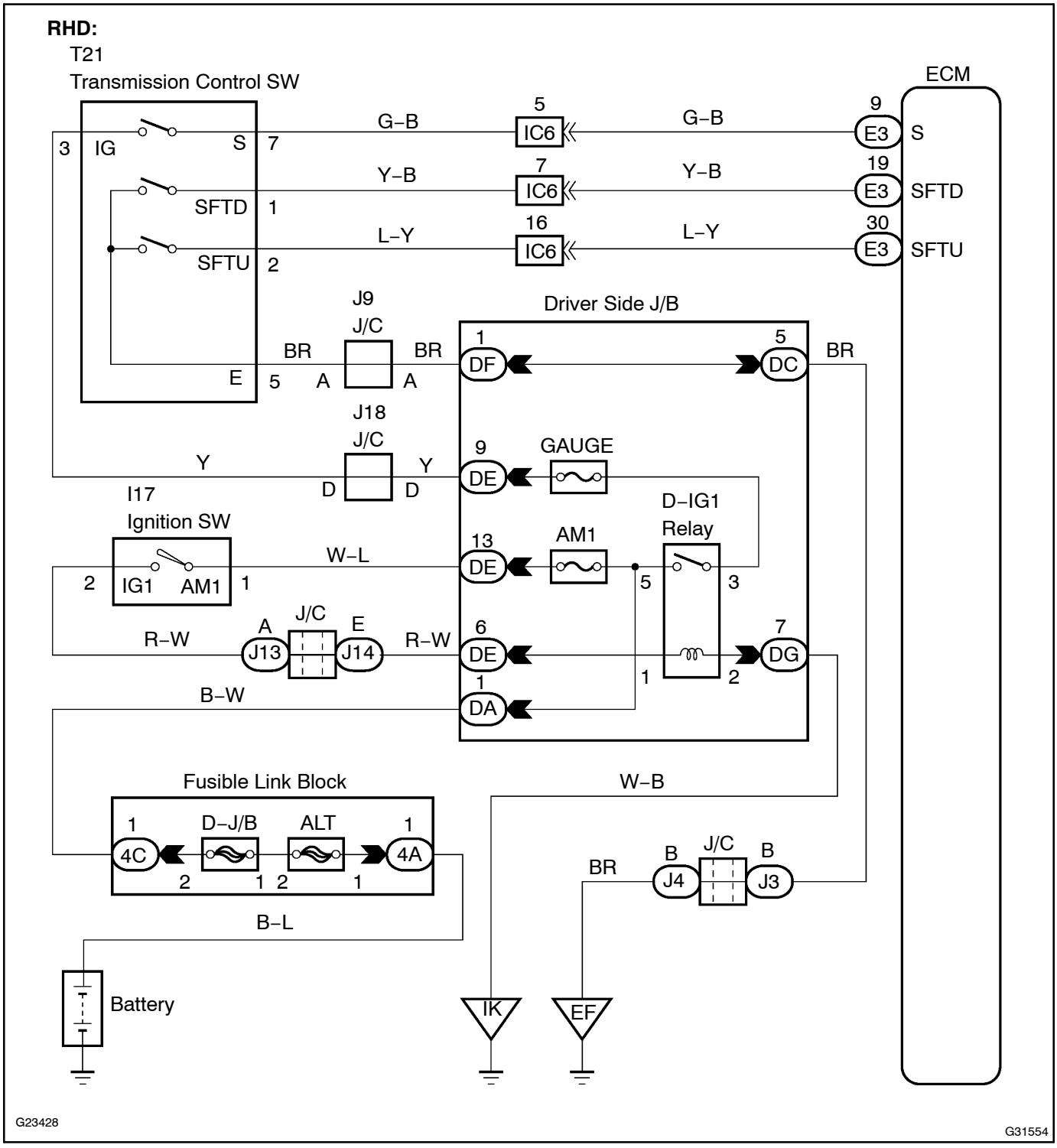
TRANSMISSION CONTROL SWITCH CIRCUIT

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

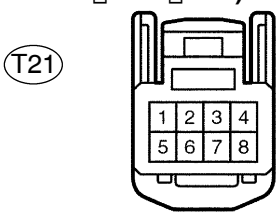



RHD:
T21
Transmission Control SW
ECM
3
IG
S
7
G–B
5
IC6
G–B
9
E3
S
SFTD
1
Y–B
7
IC6
Y–B
19
E3
SFTD
SFTU
2
L–Y
16
IC6
L–Y
30
E3
SFTU
J9
J/C
BR
BR
E
5
A
A
Driver Side J/B
1
DF
5
DC
BR
J18
J/C
Y
Y
D
D
I17
9
DE
GAUGE
Ignition SW
D–IG1
Relay
2
IG1
AM1
1
W–L
13
DE
AM1
5
3
A
J/C
E
R–W
J13
J14
R–W
6
DE
7
DG
1
2
B–W
1
DA
Fusible Link Block
W–B
1
D–J/B
ALT
1
4C
4A
2
1
2
1
B
J/C
B
BR
J4
J3
B–L
Battery
IK
EF
G23428
G31554

INSPECTION PROCEDURE

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

Wire Harness Side:
(Connector Front View):



(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:

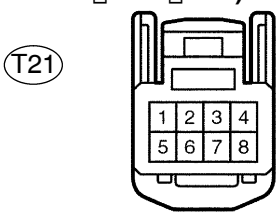
Switch Condition	Tester Connection	Specified Condition
IG switch ON	3 – Body ground	10 to 14 V
IG switch OFF	↑	Below 1 V

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):



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

Standard:

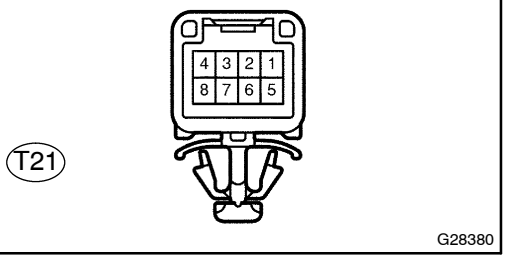
Tester Connection	Specified Condition
5 – Body ground	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (SEE PAGE 01–44)**

OK

3 INSPECT TRANSMISSION CONTROL SWITCH

Switch Side:
(Connector Front View):



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

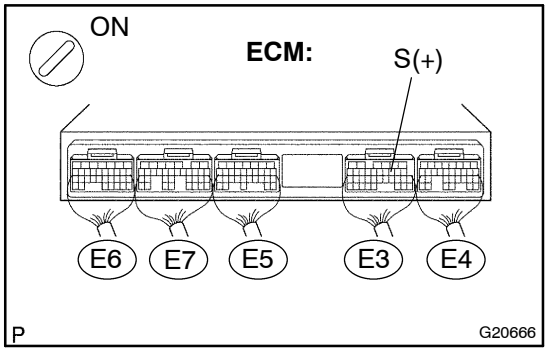
Standard:

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

NG → **REPLACE TRANSMISSION CONTROL SWITCH (SEE PAGE 40–42)**

OK

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

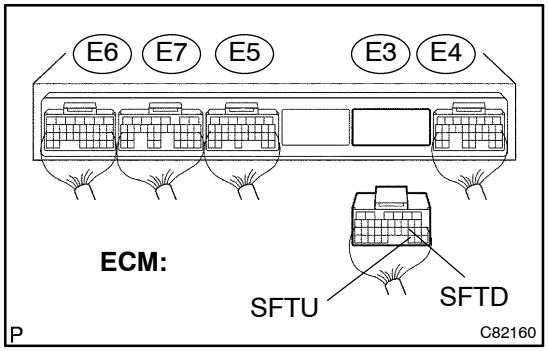


(a) Connect the transmission control switch connector of shift lock control unit assy.

(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

NG → **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)