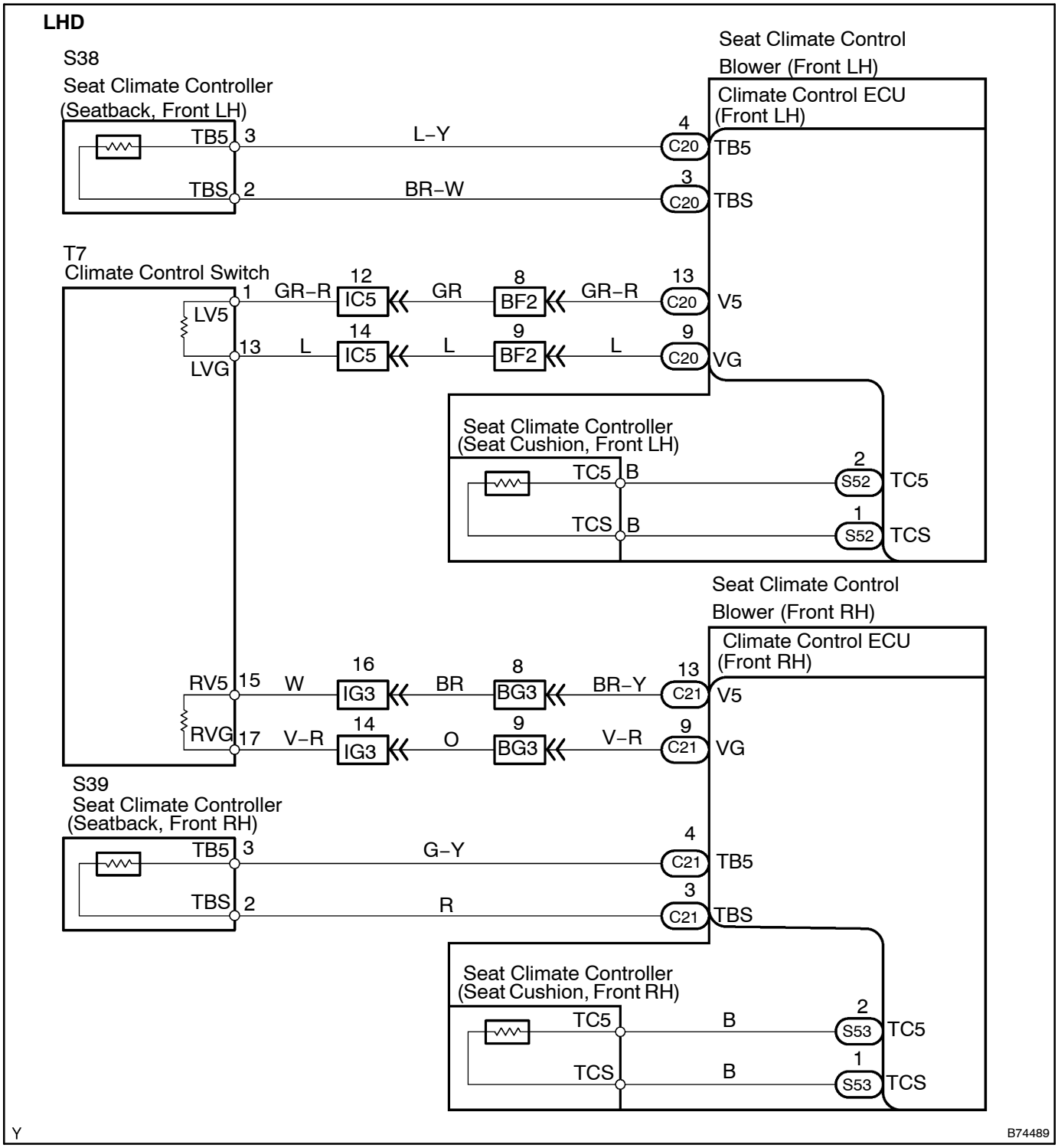
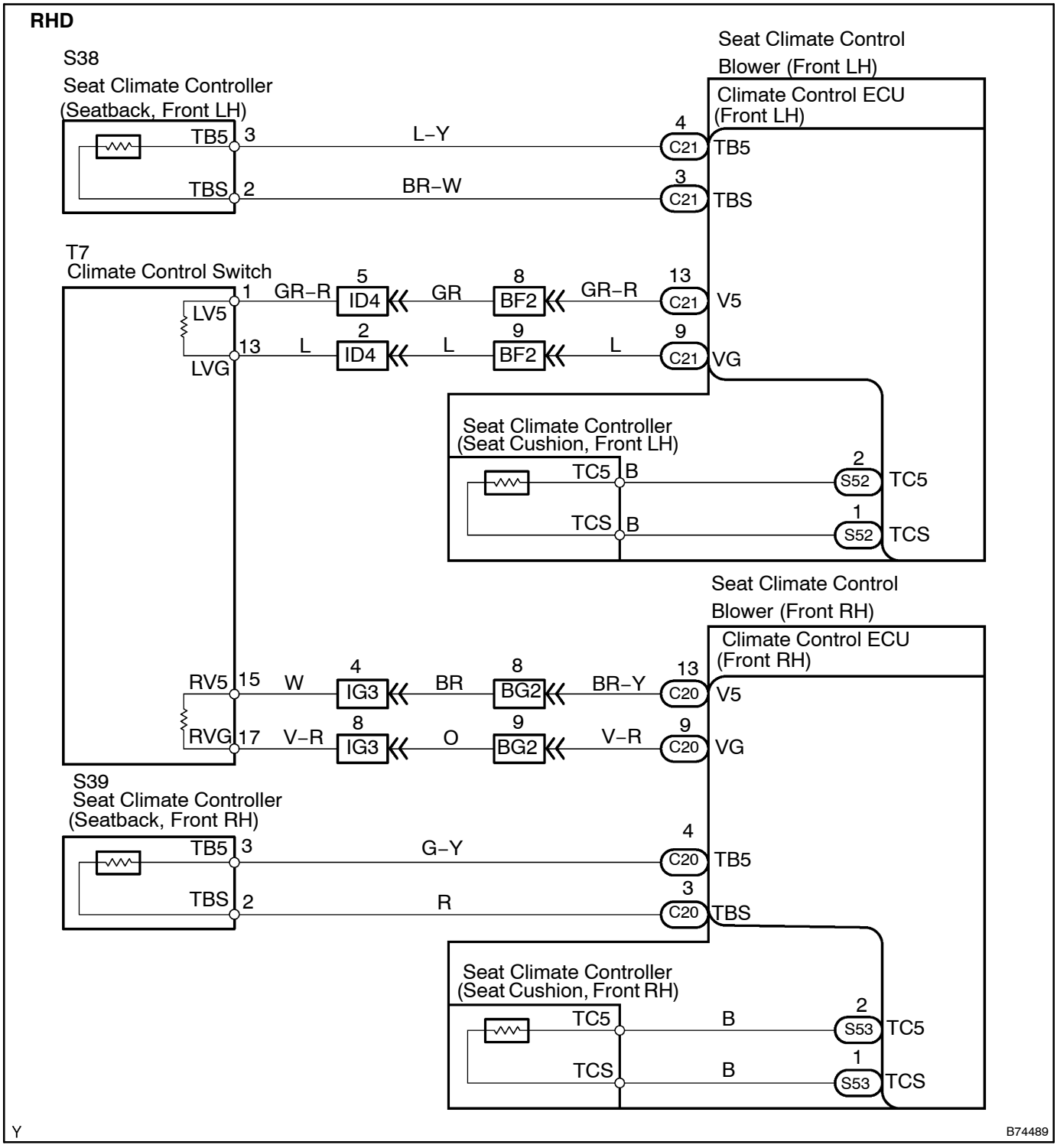
CLIMATE CONTROL DOES NOT OPERATE (BLINKING PATTERN 3)

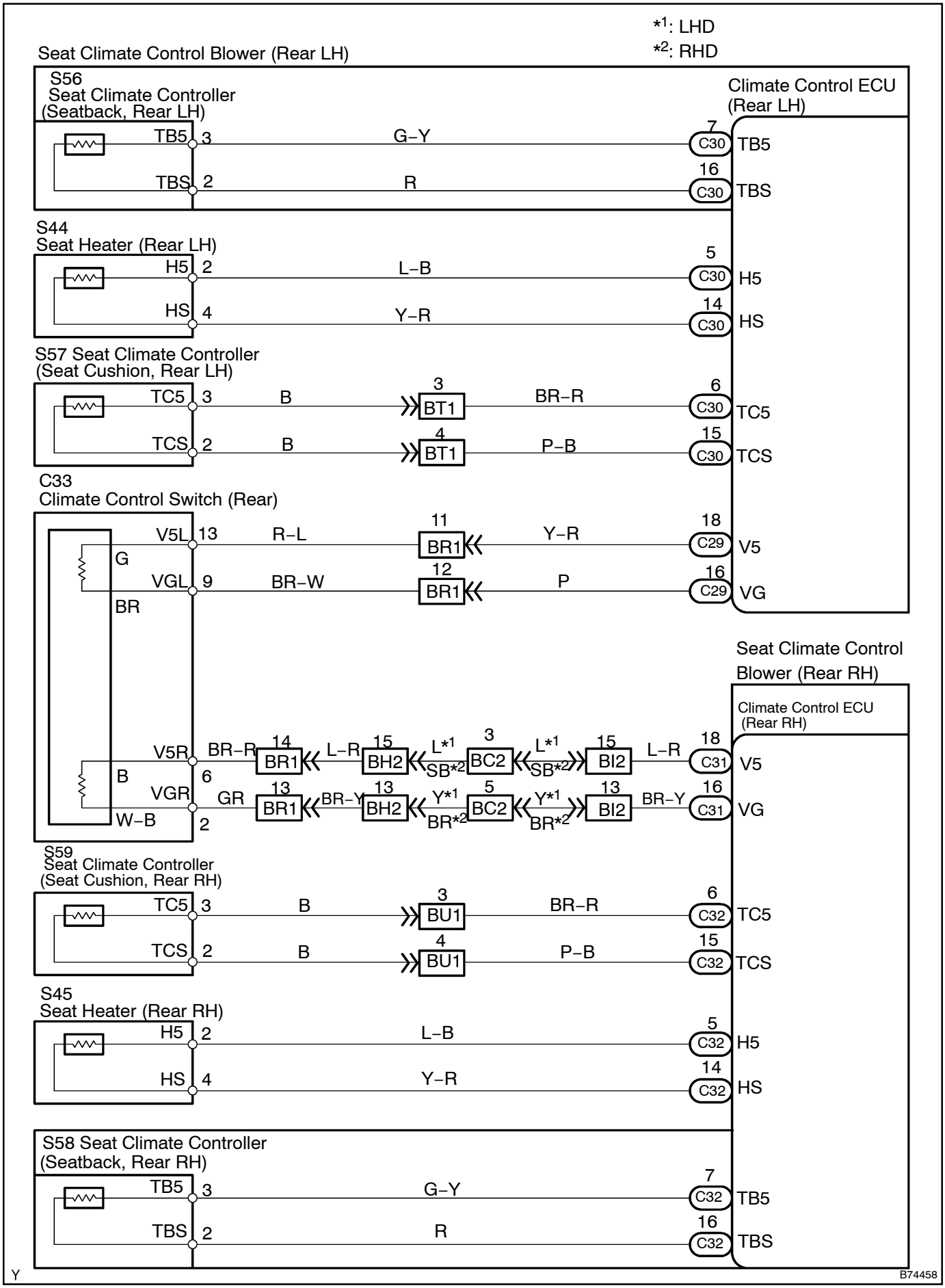
CIRCUIT DESCRIPTION

As a result of a short circuit, the ECU may not be able to provide 5 V of power voltage to the seat climate controller thermistor circuit, climate control switch's volume control circuit or rear seat heater thermistor circuit. If this happens, all output will be stopped and the indicator illuminates according to blinking pattern 3.

WIRING DIAGRAM




RHD
S38
Seat Climate Controller
(Seatback, Front LH)
TB5
TBS
3
2
L–Y
BR–W
Seat Climate Control
Blower (Front LH)
Climate Control ECU
(Front LH)
4
C21
TB5
3
C21
TBS
T7
Climate Control Switch
1
LV5
13
LVG
GR–R
L
5
ID4
2
ID4
GR
L
8
BF2
9
BF2
GR–R
L
13
C21
V5
9
C21
VG
Seat Climate Controller
(Seat Cushion, Front LH)
TC5
TCS
B
B
2
S52
TC5
1
S52
TCS
Seat Climate Control
Blower (Front RH)
Climate Control ECU
(Front RH)
RV5
RVG
15
17
W
V–R
4
IG3
8
IG3
BR
O
8
BG2
9
BG2
BR–Y
V–R
13
C20
V5
9
C20
VG
S39
Seat Climate Controller
(Seatback, Front RH)
TB5
TBS
3
2
G–Y
R
4
C20
TB5
3
C20
TBS
Seat Climate Controller
(Seat Cushion, Front RH)
TC5
TCS
B
B
2
S53
TC5
1
S53
TCS
Y
B74489


*1: LHD
*2: RHD
Seat Climate Control Blower (Rear LH)
S56
Seat Climate Controller
(Seatback, Rear LH)
TB5
TBS
3
2
G–Y
R
Climate Control ECU
(Rear LH)
7
C30
TB5
16
C30
TBS
S44
Seat Heater (Rear LH)
H5
HS
2
4
L–B
Y–R
5
C30
H5
14
C30
HS
S57 Seat Climate Controller
(Seat Cushion, Rear LH)
TC5
TCS
3
2
B
B
3
BT1
4
BT1
BR–R
P–B
6
C30
TC5
15
C30
TCS
C33
Climate Control Switch (Rear)
V5L
G
VGL
BR
13
9
R–L
BR–W
11
BR1
12
BR1
Y–R
P
18
C29
V5
16
C29
VG
Seat Climate Control
Blower (Rear RH)
Climate Control ECU
(Rear RH)
V5R
B
VGR
W–B
6
2
BR–R
GR
14
BR1
13
BR1
L–R
BR–Y
15
BH2
13
BH2
L*1
SB*2
Y*1
BR*2
3
BC2
5
BC2
L*1
SB*2
Y*1
BR*2
15
BI2
13
BI2
L–R
BR–Y
18
C31
V5
16
C31
VG
S59
Seat Climate Controller
(Seat Cushion, Rear RH)
TC5
TCS
3
2
B
B
3
BU1
4
BU1
BR–R
P–B
6
C32
TC5
15
C32
TCS
S45
Seat Heater (Rear RH)
H5
HS
2
4
L–B
Y–R
5
C32
H5
14
C32
HS
S58 Seat Climate Controller
(Seatback, Rear RH)
TB5
TBS
3
2
G–Y
R
7
C32
TB5
16
C32
TBS
Y
B74458

INSPECTION PROCEDURE

1	CHECK CLIMATE CONTROL SWITCH (INDICATOR)

(a) Check that the climate control indicator is blinking.

Result	Proceed to
If front climate control switch indicator is blinking	A
If rear climate control switch indicator is blinking	B

B → **Go to step 8**

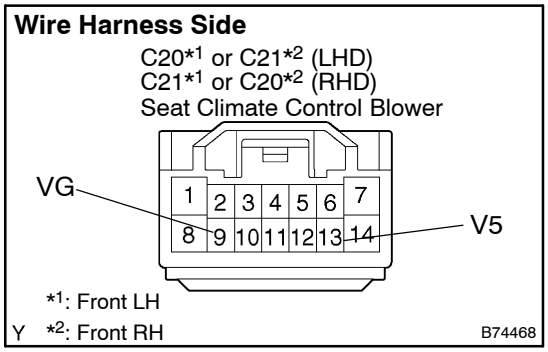
A

2	INSPECT CLIMATE CONTROL SWITCH (FRONT) (See page 05–2506)

NG → **REPLACE CLIMATE CONTROL SWITCH**

OK

3	CHECK WIRE HARNESS (SEAT CLIMATE CONTROL BLOWER (CLIMATE CONTROL ECU) – CLIMATE CONTROL SWITCH)



HINT:
When the front LH indicator is blinking, check the front LH connector. When the front RH indicator is blinking, check the front RH connector.

(a) Disconnect the C20 or C21 blower connectors.

(b) Measure the resistance of the wire harness side connector.

Standard:

Front LH (LHD)
Front RH (RHD)

Terminal Connection	Specified Condition
C20–13 (V5) – C20–9 (VG)	Approx. 5 kΩ

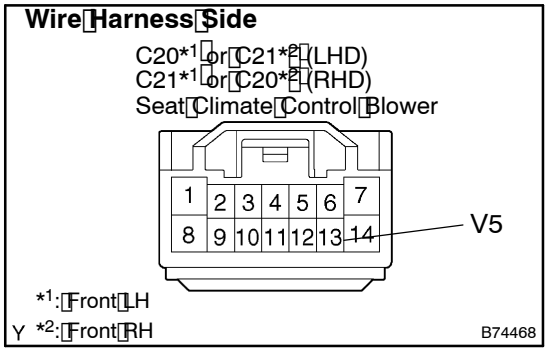
Front RH (LHD)
Front LH (RHD)

Terminal Connection	Specified Condition
C21–13 (V5) – C21–9 (VG)	Approx. 5 kΩ

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

4	CHECK WIRE HARNESS (SEAT CLIMATE CONTROL BLOWER (CLIMATE CONTROL ECU) – BODY GROUND)



HINT:
When the front LH indicator is blinking, check the front LH connector. When the front RH indicator blinking, check the front RH connector.

(a) Measure the voltage of the wire harness side connector.

Standard:

Front LH (LHD)

Tester Connection	Condition	Specified Condition
C20–13 (V5) – Body Ground	Ignition switch ON	5 V

Front RH (LHD)
Front LH (RHD)

Tester Connection	Condition	Specified Condition
C21–13 (V5) – Body Ground	Ignition switch ON	5 V

NG → REPLACE SEAT CLIMATE CONTROL BLOWER (CLIMATE CONTROL ECU)

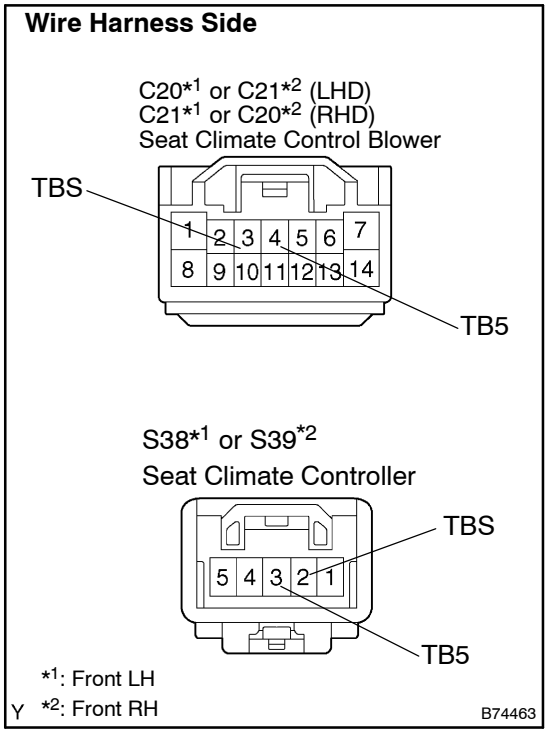
OK

5	INSPECTION SEAT CLIMATE CONTROLLER SWITCH (THERMISTOR OF SEATBACK) (See page 05–2506)

NG → REPLACE SEAT CLIMATE CONTROLLER

OK

6 CHECK WIRE HARNESS (SEAT CLIMATE CONTROL BLOWER (CLIMATE CONTROL ECU) – SEAT CLIMATE CONTROLLER)



HINT:
When the front LH indicator is blinking, check the front LH connector. When the front RH indicator blinking, check the front RH connector.

(a) Disconnect the C20 or C21 blower connectors.
(b) Disconnect the S38 or S39 controller connectors.
(c) Measure the resistance of the wire harness side connectors.

Standard:

Front LH (LHD)

Terminal Connection	Specified Condition
C20–3 (TBS) – S38–2 (TBS)	Below 1 Ω
C20–4 (TB5) – S38–3 (TB5)	Below 1 Ω

Front RH (LHD)

Terminal Connection	Specified Condition
C21–3 (TBS) – S39–2 (TBS)	Below 1 Ω
C21–4 (TB5) – S39–3 (TB5)	Below 1 Ω

Front LH (RHD)

Terminal Connection	Specified Condition
C21–3 (TBS) – S38–2 (TBS)	Below 1 Ω
C21–4 (TB5) – S38–3 (TB5)	Below 1 Ω

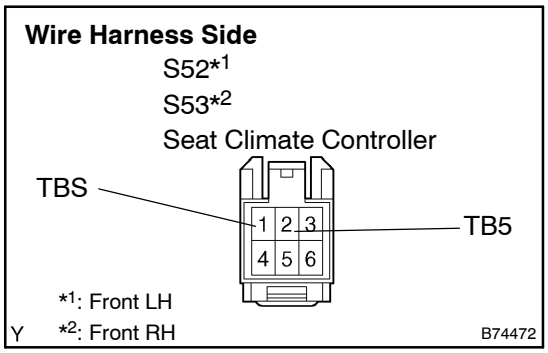
Front RH (RHD)

Terminal Connection	Specified Condition
C20–3 (TBS) – S39–2 (TBS)	Below 1 Ω
C20–4 (TB5) – S39–3 (TB5)	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

7 CHECK WIRE HARNESS (SEAT CLIMATE CONTROL BLOWER (CLIMATE CONTROL ECU) – SEAT CLIMATE CONTROLLER)



HINT:
When the front LH indicator is blinking, check the front LH connector. When the front RH indicator blinking, check the front RH connector.

(a) Disconnect the S52 or S53 controller connectors.
(b) Measure the resistance of the wire harness side connector.

Standard:

Front LH

Tester Connection	Ambient Temperature	Specified Condition
S52–2 (TB5) – S52–1 (TBS)	10°C (50°F)	Approx. 3.7 kΩ
S52–2 (TB5) – S52–1 (TBS)	25°C (77°F)	Approx. 2 kΩ
S52–2 (TB5) – S52–1 (TBS)	30°C (86°F)	Approx. 1.7 kΩ

Front RH

Tester Connection	Ambient Temperature	Specified Condition
S53–2 (TB5) – S53–1 (TBS)	10°C (50°F)	Approx. 3.7 kΩ
S53–2 (TB5) – S53–1 (TBS)	25°C (77°F)	Approx. 2 kΩ
S53–2 (TB5) – S53–1 (TBS)	30°C (86°F)	Approx. 1.7 kΩ

HINT:

As the temperature increases, the resistance decreases.

NG → **REPLACE SEAT CLIMATE CONTROLLER**

OK

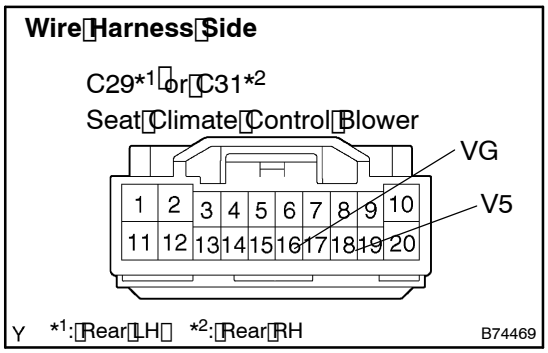
REPLACE SEAT CLIMATE CONTROL BLOWER (CLIMATE CONTROL ECU)

8	**INSPECT CLIMATE CONTROL SWITCH (REAR) (See page 05–2506)**

NG → **REPLACE CLIMATE CONTROL SWITCH**

OK

9	**CHECK WIRE HARNESS (SEAT CLIMATE CONTROL BLOWER (CLIMATE CONTROL ECU) – CLIMATE CONTROL SWITCH)**



HINT:

When the rear LH indicator is blinking, check the rear LH connector. When the rear RH indicator blinking, check the rear RH connector.

(a) Disconnect the C29 or C31 blower connectors.

(b) Measure the resistance of the wire harness side connector.

Standard:

Rear LH

Terminal Connection	Specified condition
C29–18 (V5) – C29–16 (VG)	Approx. 5 kΩ

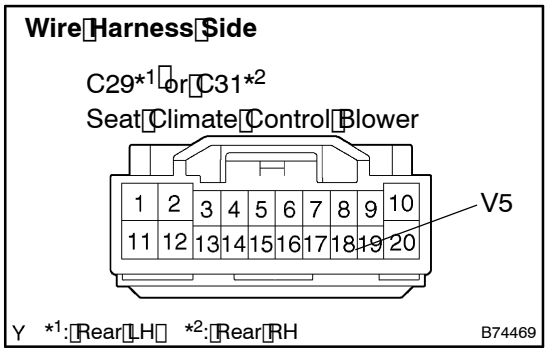
Rear RH

Terminal Connection	Specified condition
C31–18 (V5) – C31–16 (VG)	Approx. 5 kΩ

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

10	CHECK WIRE HARNESS (SEAT CLIMATE CONTROL BLOWER (CLIMATE CONTROL ECU) – BODY GROUND)



HINT:
When the rear LH indicator is blinking, check the rear LH connector. When the rear RH indicator blinking, check the rear RH connector.

(a) Measure the voltage of between the wire harness side connector.

Standard:

Rear LH

Tester Connection	Conndition	Specified Condition
C29–18 (V5) – Body ground	Ignition switch ON Climate Control Switch ON	10 to 14 V

Rear RH

Tester Connection	Conndition	Specified Condition
C31–18 (V5) – Body ground	Ignition switch ON Climate Control Switch ON	10 to 14 V

NG → REPLACE SEAT CLIMATE CONTROL BLOWER (CLIMATE CONTROL ECU)

OK

11	INSPECT SEAT CLIMATE CONTROLLER (THERMISTOR OF SEATBACK) (See page 05–2506)

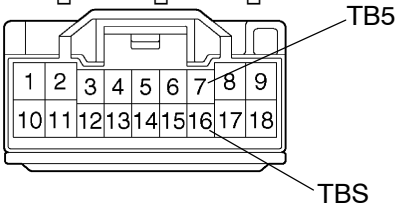
NG → REPLACE SEAT CLIMATE CONTROLLER

OK

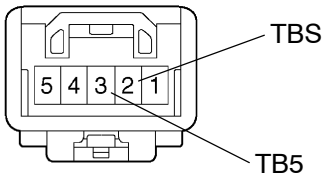
12	CHECK WIRE HARNESS (SEAT CLIMATE CONTROL BLOWER (CLIMATE CONTROL ECU) – SEAT CLIMATE CONTROLLER)

Wire Harness Side

C30*1
C32*2
Seat Climate Control Blower



S56*1
S58*2
Seat Climate Controller



*1: Rear LH
*2: Rear RH

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HINT:
When the rear LH indicator is blinking, check the rear LH connector. When the rear RH indicator blinking, check the rear RH connector.

(a) Disconnect the C30 or C32 blower connectors.
(b) Disconnect the S56 or S58 controller connectors.
(c) Measure the resistance of between the wire harness side connectors.

Standard:

Rear LH

Terminal Connection	Specified Condition
C30–16 (TBS) – S56–2 (TBS)	Below 1 Ω
C30–7 (TB5) – S56–3 (TB5)	Below 1 Ω

Rear RH

Terminal Connection	Specified Condition
C32–16 (TBS) – S58–2 (TBS)	Below 1 Ω
C32–7 (TB5) – S58–3 (TB5)	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

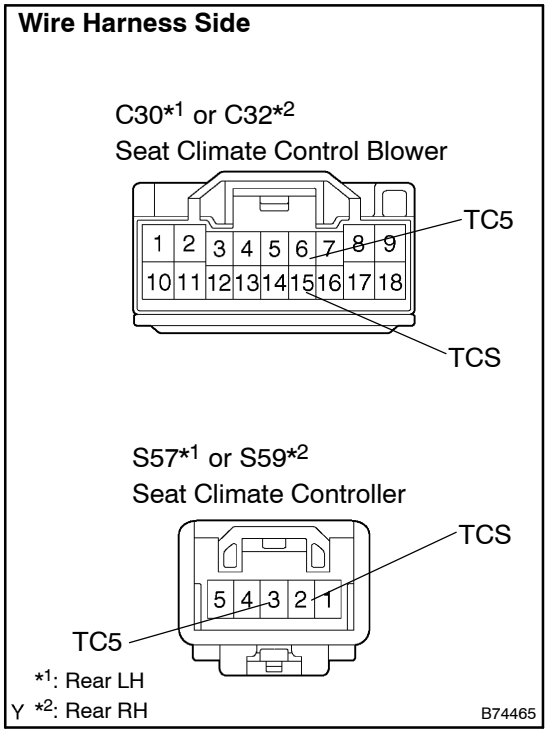
OK

13	INSPECT SEAT CLIMATE CONTROLLER (THERMISTOR OF SEAT CUSHION) (See page 05–2506)

NG → **REPLACE SEAT CLIMATE CONTROLLER**

OK

14 CHECK WIRE HARNESS (SEAT CLIMATE CONTROL BLOWER (CLIMATE CONTROL ECU) – SEAT CLIMATE CONTROLLER)



HINT:
When the rear LH indicator is blinking, check the rear LH connector. When the rear RH indicator blinking, check the rear RH connector.

(a) Disconnect the C30 or C32 blower connectors.
(b) Disconnect the S57 or S59 controller connectors.
(c) Measure the resistance of the wire harness side connectors.

Standard:

Rear LH

Terminal Connection	Specified Condition
C30–15 (TCS) – S57–2 (TCS)	Below 1 Ω
C30–6 (TC5) – S57–3 (TC5)	Below 1 Ω

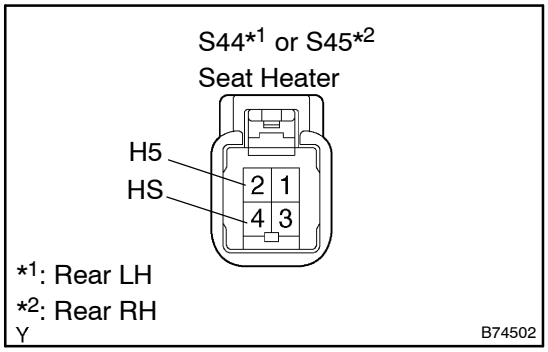
Rear RH

Terminal Connection	Specified Condition
C32–15 (TCS) – S59–2 (TCS)	Below 1 Ω
C32–6 (TC5) – S59–3 (TC5)	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

15 INSPECT SEAT HEATER (THERMISTOR)



HINT:
When the rear LH indicator is blinking, check the rear LH connector. When the rear RH indicator blinking, check the rear RH connector.

(a) Disconnect the S44 or S45 heater connector.
(b) Check the resistance between the terminals of the heater.

Standard:

Rear LH

Tester Connection	Ambient Temperature	Specified Condition
S44–2(H5) – S44–4 (HS)	10°C (50°F)	Approx. 3.7 kΩ
S44–2(H5) – S44–4 (HS)	25°C (77°F)	Approx. 2 Ω
S44–2(H5) – S44–4 (HS)	30°C (86°F)	Approx. 1.7 Ω

Rear RH

Tester Connection	Ambient Temperature	Specified Condition
S45–2(H5) – S45–4 (HS)	10°C (50°F)	Approx. 3.7 kΩ
S45–2(H5) – S45–4 (HS)	25°C (77°F)	Approx. 2 Ω
S45–2(H5) – S45–4 (HS)	30°C (86°F)	Approx. 1.7 Ω

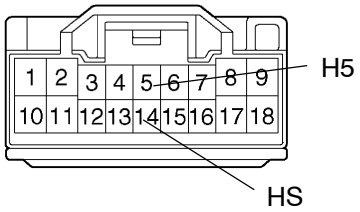
NG → **REPLACE SEAT HEATER**

OK

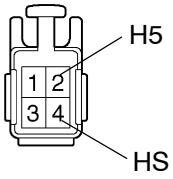
16	CHECK WIRE HARNESS (SEAT CLIMATE CONTROL BLOWER (CLIMATE CONTROL ECU) – SEAT HEATER)

Wire Harness Side

C30*1 or C32*2
Seat Climate Control Blower



S44*1 or S45*2
Seat Heater



*1: Rear LH
*2: Rear RH

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HINT:
When the rear LH indicator is blinking, check the rear LH connector. When the rear RH indicator blinking, check the rear RH connector.

(a) Disconnect the C30 or C32 blower connectors.
(b) Disconnect the S44 or S45 heater connectors.
(c) Measure the resistance of the wire harness side connectors.

Standard:

Rear LH

Terminal Connection	Specified Condition
C30–5 (H5) – S44–2 (H5)	Below 1 Ω
C30–14 (HS) – S44–4 (HS)	Below 1 Ω

Rear RH

Terminal Connection	Specified Condition
C32–5 (H5) – S45–2 (H5)	Below 1 Ω
C32–14 (HS) – S45–4 (HS)	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

REPLACE SEAT CLIMATE CONTROL BLOWER (CLIMATE CONTROL ECU)