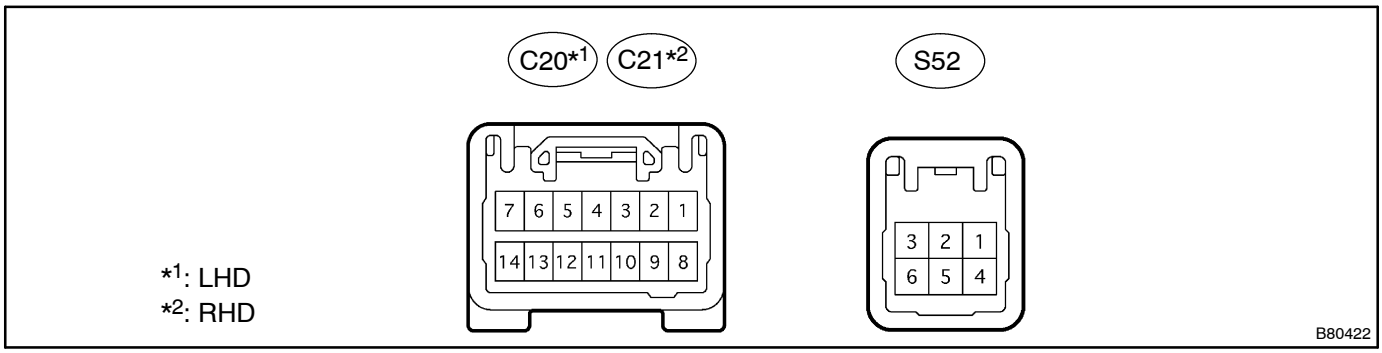
05HPZ–01

TERMINALS OF ECU

1. CHECK SEAT CLIMATE CONTROL BLOWER LH (FR) (CLIMATE CONTROL ECU)



(a) Disconnect the C20 or C21 and S52 blower connectors.
(b) Measure the voltage and resistance of each terminal of the wire harness side connector.
Standard:
LHD

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
E (C20 – 8) – Body ground	W–B – Body ground	Ground	Constant	Below 1 Ω
IG (C20 –7) – Body ground	B – Body ground	Power source	Turn ignition switch ON	10 to 14 V
V5 (C20 – 13) – VG (C20 – 9)	GR–R – L	Power supply for volume switch	Constant	5 kΩ
VS (C20 – 12) – VG (20 – 9)	R–B – L	Volume switch signal	Turn volume switch: Max	0 Ω → 5 kΩ
TB5 (C20 – 4) – TBS (20 – 3)	L–Y – BR–W	Seatback temperature sensor	Seatback temperature: 10°C → 30°C (50°F → 86°F)	Approx. 3.7 kΩ → Approx. 1.7 kΩ
TC5 (S52 – 2) – TCS (S52 – 1)	B – B	Seat cushion temperature sensor	Seatback temperature: 10°C → 30°C (50°F → 86°F)	Approx. 3.7 kΩ → Approx. 1.7 kΩ
RSID (C20 – 6) – Body ground	P – Body ground	Rear seat heater switch*1 Rear seat climate control switch*2	Ignition switch: ON Turn rear seat heater switch*1 or rear seat climate control switch*2 OFF → ON	0 V → 10 to 14 V

RHD

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
E (C21 – 8) – Body ground	W–B – Body ground	Ground	Constant	Below 1 Ω
IG (C21 –7) – Body ground	R – Body ground	Power source	Turn ignition switch ON	10 to 14 V
V5 (C21 – 13) – VG (C21 – 9)	GR–R – L	Power supply for volume switch	Constant	5 kΩ
VS (C21 – 12) – VG (21 – 9)	R–B – L	Volume switch signal	Turn volume switch: Max	0 Ω → 5 kΩ
TB5 (C21 – 4) – TBS (21 – 3)	L–Y – BR–W	Seatback temperature sensor	Seatback temperature: 10°C → 30°C (50°F → 86°F)	Approx. 3.7 kΩ → Approx. 1.7 kΩ

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
TC5 (S52 – 2) – TCS (S52 – 1)	B – B	Seat cushion temperature sensor	Seatback temperature: 10°C → 30°C (50°F → 86°F)	Approx. 3.7 kΩ → Approx. 1.7 kΩ
DSID (C21 – 6) – Body ground	P – Body ground	Rear seat heater switch*1 Rear seat climate control switch*2	Ignition switch: ON Turn rear seat heater switch*1 or rear seat climate control switch*2 OFF → ON	0 V → 10 to 14 V

HINT:

*1: For vehicles with a rear seat heater system

*2: For vehicles with a rear seat climate control system

If the result is not as specified, there may be a malfunction on the wire harness side.

(c) Reconnect the C20 or C21 and S52 blower connectors.

(d) Measure the voltage of each terminal of the connector.

Standard:

LHD

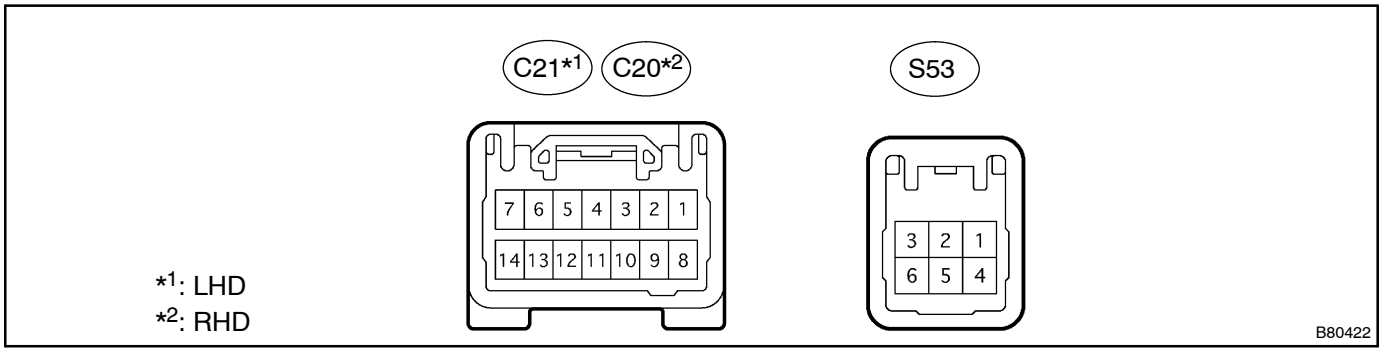
Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
IND (C20–5) – Body ground	Y–R – Body ground	Climate control switch indicator	Ignition switch: ON Turn climate control switch: OFF → ON	0 V → 10 to 14 V
IDL (C20–10) – Body ground	W – Body ground	Engine idle–up signal	Ignition switch: ON Turn climate control switch: OFF → ON	10 to 14 V → 0 V
TDB+ (C20–14) – Body ground	LG–B – Body ground	Power supply for seatback Peltier element (WARM)	Ignition switch: ON Turn climate control switch: OFF → Max. WARM	0 V → 10 to 14 V
TDB– (C20–1) – Body ground	B – Body ground	Power supply for seatback Peltier element (COOL)	Ignition switch: ON Turn climate control switch: OFF → Max. COOL	0 V → 10 to 14 V
TDC+ (S52–3) – Body ground	L – Body ground	Power supply for seat cushion Peltier element (WARM)	Ignition switch: ON Turn climate control switch: OFF → Max. WARM	0 V → 10 to 14 V
TDC– (S52–6) – Body ground	Y – Body ground	Power supply for seat cushion Peltier element (COOL)	Ignition switch: ON Turn climate control switch: OFF → Max. COOL	0 V → 10 to 14 V

RHD

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
IND (C21–5) – Body ground	Y–R – Body ground	Climate control switch indicator	Ignition switch: ON Turn climate control switch: OFF → ON	0 V → 10 to 14 V
TDB+ (C21–14) – Body ground	LG–B – Body ground	Power supply for seatback Peltier element (WARM)	Ignition switch: ON Turn climate control switch: OFF → Max. WARM	0 V → 10 to 14 V
TDB– (C21–1) – Body ground	B – Body ground	Power supply for seatback Peltier element (COOL)	Ignition switch: ON Turn climate control switch: OFF → Max. COOL	0 V → 10 to 14 V
TDC+ (S52–3) – Body ground	L – Body ground	Power supply for seat cushion Peltier element (WARM)	Ignition switch: ON Turn climate control switch: OFF → Max. WARM	0 V → 10 to 14 V
TDC– (S52–6) – Body ground	Y – Body ground	Power supply for seat cushion Peltier element (COOL)	Ignition switch: ON Turn climate control switch: OFF → Max. COOL	0 V → 10 to 14 V

If the result is not as specified, the ECU may have a malfunction.

2. CHECK SEAT CLIMATE CONTROL BLOWER RH (FR) (CLIMATE CONTROL ECU)



(a) Disconnect the C21 or C20 and S53 blower connectors.
(b) Measure the voltage and resistance of each terminal of the wire harness side connector.

Standard:

LHD

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
E (C21–8) – Body ground	W–B – Body ground	Ground	Constant	Below 1 Ω
IG (C21–7) – Body ground	G – Body ground	Power source	Turn ignition switch ON	10 to 14 V
V5 (C21–13) – VG (C21–9)	BR–Y – V–R	Power source for volume switch	Constant	5 kΩ
VS (C21–12) – VG (21–9)	B–O – V–R	Volume switch signal	Turn volume switch: Max. COOL → Max. WARM	0 Ω → 5 kΩ
TB5 (C21–4) – TBS (C21–3)	G–Y – R	Seatback temperature sensor	Turn volume switch: 10°C → 30°C (50°F → 86°F)	Approx. 3.7 kΩ → Approx. 1.7 kΩ
TC5 (S53–2) – TCS (S53–1)	B –B	Seat cushion temperate sensor	Turn the volume switch: 10°C → 30°C (50°F → 86°F)	Approx. 3.7 kΩ → Approx. 1.7 kΩ
RSID (C21–6) – Body ground	GR – Body ground	Rear seat heater switch*1 Rear seat climate control switch*2	Ignition switch: ON Turn rear seat heater switch*1 or rear seat climate control switch*2 OFF → ON	0 V → 10 to 14 V

RHD

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
E (C20–8) – Body ground	W–B – Body ground	Ground	Constant	Below 1 Ω
IG (C20–7) – Body ground	G – Body ground	Power source	Turn ignition switch ON	10 to 14 V
V5 (C20–13) – VG (C20–9)	BR–Y – V–R	Power source for volume switch	Constant	5 kΩ
VS (C20–12) – VG (20–9)	B–O – V–R	Volume switch signal	Turn volume switch: Max. COOL → Max. WARM	0 Ω → 5 kΩ
TB5 (C20–4) – TBS (C20–3)	G–Y – R	Seatback temperature sensor	Turn volume switch: 10°C → 30°C (50°F → 86°F)	Approx. 3.7 kΩ → Approx. 1.7 kΩ

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
TC5 (S53–2) – TCS (S53–1)	B –B	Seat cushion temperate sensor	Turn the volume switch: 10°C → 30°C (50°F → 86°F)	Approx. 3.7 kΩ → Approx. 1.7 kΩ
DSID (C20–6) – Body ground	GR – Body ground	Rear seat heater switch*1 Rear seat climate control switch*2	Ignition switch: ON Turn rear seat heater switch*1 or rear seat climate control switch*2 OFF → ON	0 V → 10 to 14 V

HINT:

*1: For vehicles with a rear seat heater system

*2: For vehicles with a rear seat climate control system

If the result is not as specified, there may be a malfunction on the wire harness side.

(c) Reconnect the C21 or C20 and S53 blower connectors.

(d) Measure the voltage and resistance of each terminal of the connector.

Standard:

LHD

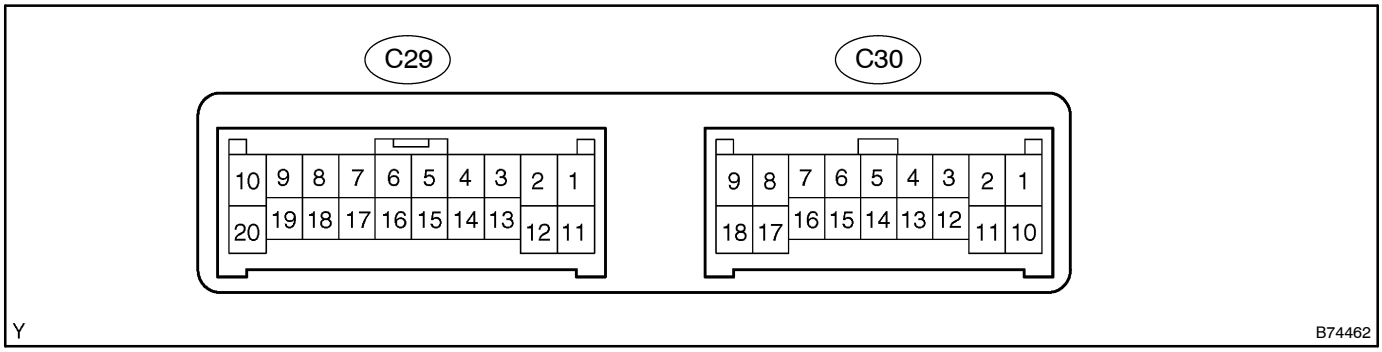
Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
IND (C21–5) – Body ground	Y–B – Body ground	Climate control switch indicator	Ignition switch: ON Turn climate control switch: OFF → ON	0 V → 10 to 14 V
TDB+ (C21–14) – Body ground	LG–B – Body ground	Power supply for seatback Peltier element (WARM)	Ignition switch: ON Turn climate control switch: OFF → Max. WARM	0 V → 10 to 14 V
TDB– (C21–1) – Body ground	B – Body ground	Power supply for seatback Peltier element (COOL)	Ignition switch: ON Turn climate control switch: OFF → Max. COOL	0 V → 10 to 14 V
TDC+ (S53–3) – Body ground	L – Body ground	Power supply for seat cushion Peltier element (WARM)	Ignition switch: ON Turn climate control switch: OFF → Max. WARM	0 V → 10 to 14 V
TDC– (S53–6) – Body ground	Y – Body ground	Power supply for seat cushion Peltier element (COOL)	Ignition switch: ON Turn climate control switch: OFF → Max. COOL	0 V → 10 to 14 V

RHD

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
IND (C20–5) – Body ground	L–R – Body ground	Climate control switch indicator	Ignition switch: ON Turn climate control switch: OFF → ON	0 V → 10 to 14 V
IDL (C20–10) – Body ground	W – Body ground	Engine idle–up signal	Ignition switch: ON Turn climate control switch: OFF → ON	0 V → 10 to 14 V
TDB+ (C20–14) – Body ground	LG–B – Body ground	Power supply for seatback Peltier element (WARM)	Ignition switch: ON Turn climate control switch: OFF → Max. WARM	0 V → 10 to 14 V
TDB– (C20–1) – Body ground	B – Body ground	Power supply for seatback Peltier element (COOL)	Ignition switch: ON Turn climate control switch: OFF → Max. COOL	0 V → 10 to 14 V
TDC+ (S53–3) – Body ground	L – Body ground	Power supply for seat cushion Peltier element (WARM)	Ignition switch: ON Turn climate control switch: OFF → Max. WARM	0 V → 10 to 14 V
TDC– (S53–6) – Body ground	Y – Body ground	Power supply for seat cushion Peltier element (COOL)	Ignition switch: ON Turn climate control switch: OFF → Max. COOL	0 V → 10 to 14 V

If the result is not as specified, the ECU may have a malfunction.

3. SEAT CLIMATE CONTROL BLOWER LH (RR) (CLIMATE CONTROL ECU)



(a) Disconnect the C29 and C30 blower connectors.

(b) Measure the voltage and resistance of each terminal of the wire harness side connector.

Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
GND (C29–11) – Body ground	W–B – Body ground	Ground	Constant	Below 1 Ω
IG (C29–10) – Body ground	R–B – Body ground	Power source	Ignition switch ON	10 to 14 V
SW (C29–8) – Body ground	L – Body ground	Climate control switch	Turn the climate control switch ON	Below 1 Ω
V5 (C29–18) – VG (C29–16)	Y–R – P	Volume switch	Constant	5 kΩ
VS (C29–17) – VG (C29–16)	GR–R – P	Volume switch signal	Rear left volume switch: Max. COOL → Max. WARM	0 Ω → 5 kΩ
TB5 (C30–7) – TBS (C30–16)	G–Y – R	Seatback temperature	Seatback temperature: 10°C → 30°C (50°F → 86°F)	Approx. 3.7 kΩ → Approx. 1.7 kΩ
H5 (C30–5) – HS (C30–14)	L–B – Y–R	Seat cushion temperature sensor	Seat cushion temperature: 10°C → 30°C (50°F → 86°F)	Approx. 3.7 kΩ → Approx. 1.7 kΩ
TC5 (C30–6) – TCS (C30–15)	BR–R – P–B	Heater temperature sensor	Heater temperature: 10°C → 30°C (50°F → 86°F)	Approx. 3.7 kΩ → Approx. 1.7 kΩ

If the result is not as specified, there may be a malfunction on the wire harness side.

(c) Reconnect the C29 and C30 blower connectors.

(d) Measure the voltage and resistance of each terminal of the connector.

Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
IND (C29–7) – Body ground	R–B – Body ground	Climate control switch indicator (rear)	Ignition switch: ON Turn climate control switch: OFF → ON	0 V → 10 to 14 V
INDC (C29–6)* – Body ground	G–B – Body ground	Climate control switch indicator (front)	Ignition switch: ON Turn climate control switch: OFF → ON	0 V → 10 to 14 V
TDB+ (C30–1) – Body ground	LG–B – Body ground	Power supply for seatback Peltier element (WARM)	Ignition switch: ON Turn climate control switch: OFF → Max. WARM	0 V → 10 to 14 V
TDB– (C30–2) – Body ground	B – Body ground	Power supply for seatback Peltier element (COOL)	Ignition switch: ON Turn climate control switch: OFF → Max. WARM	0 V → 10 to 14 V
TDC+ (C30–10) – Body ground	Y – Body ground	Power supply for seat cushion Peltier element (WARM)	Ignition switch: ON Turn climate control switch: OFF → Max. WARM	0 V → 10 to 14 V

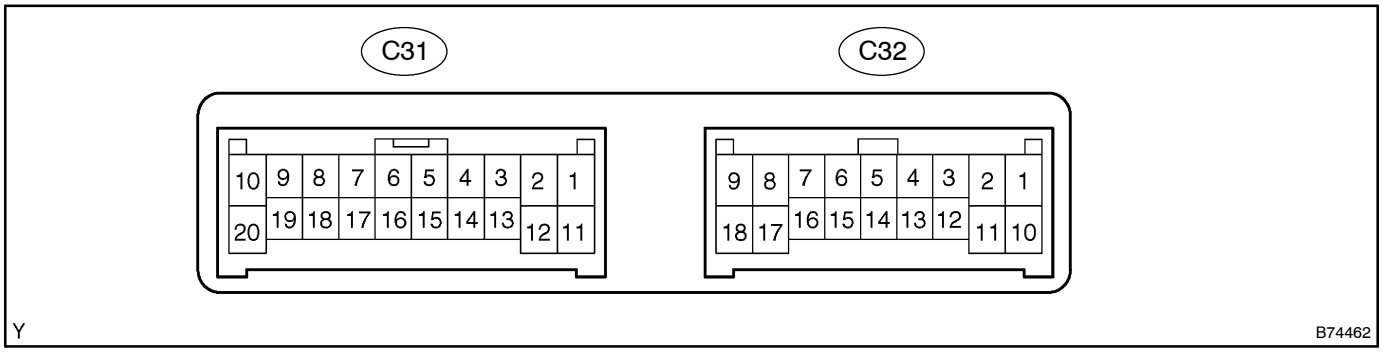
Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
TDC– (C30–11) – Body ground	BR–W – Body ground	Power supply for seat cushion Peltier element (COOL)	Ignition switch: ON Turn climate control switch: OFF → Max. COOL	0 V → 10 to 14 V
BBS (C29–3) – Body ground	Y–B – Body ground	Monitor of fan motor (seatback)	Ignition switch: ON Turn climate control switch: OFF → ON (airflow)	0 V → 10 to 14 V
BCS (C29–13) – Body ground	V – Body ground	Monitor of fan motor (seat cushion)	Ignition switch: ON Turn climate control switch: OFF → ON (airflow)	0 V → 10 to 14 V
BFB+ (C29–2) – Body ground	G–W – Body ground	Power supply for fan motor (seatback)	Ignition switch: ON Turn climate control switch: OFF → ON (airflow)	0 V → 10 to 14 V
BFC+ (C29–12) – Body ground	L – Body ground	Power supply for fan motor (seat cushion)	Ignition switch: ON Turn climate control switch: OFF → ON (airflow)	0 V → 10 to 14 V
BFB– (C30–9) – Body ground	GR–R – Body ground	Ground for fan motor (seatback)	Constant	Below 1 Ω
BFC– (C29–1) – Body ground	O – Body ground	Ground for fan motor (seat cushion)	Constant	Below 1 Ω
B (C30–18) – Body ground	V–G – Body ground	Power supply for seat heater	Ignition switch: ON Turn climate control switch: OFF → Max. WARM	0 V → 10 to 14 V
E (C30–8) – Body ground	B–R – Body ground	Ground for seat heater	Constant	Below 1 Ω
IDL (C30–3) – Body ground	G – Body ground	Engine idle–up signal	Ignition switch: ON Turn climate control switch: OFF → ON	10 to 14 V → 0 V

HINT:

*: For vehicles with a front seat climate control system

If the result is not as specified, the ECU may have a malfunction.

4. SEAT CLIMATE CONTROL BLOWER RH (RR) (CLIMATE CONTROL ECU)



(a) Disconnect the C31 and C32 blower connectors.

(b) Measure the voltage and resistance of each terminal of the wire harness side connector.

Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
GND (C31–11) – Body ground	W–B – Body ground	Ground	Constant	Below 1 Ω
IG (C31–10) – Body ground	R–B – Body ground	Power source	Ignition switch ON	10 to 14 V
SW (C31–8) – Body ground	V–R – Body ground	Climate control switch	Turn climate control switch ON	Below 1 Ω
V5 (C31–18) – VG (C31–16)	L–R – BR–Y	Volume switch	Constant	5 kΩ

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
VS (C31–17) – VG (C31–16)	GR – BR–Y	Volume switch signal	Volume switch: 10°C → 30°C (50°F → 86°F)	0 Ω → 5 kΩ
TB5 (C32–7) – TBS (C32–16)	G–Y – R	Seatback temperature sensor	Seatback temperature: 10°C → 30°C (50°F → 86°F)	Approx. 3.7 kΩ → Approx. 1.7 kΩ
H5 (C32–5) – HS (C32–14)	L–B – Y–R	Seat cushion temperature sensor	Seat cushion temperature: 10°C → 30°C (50°F → 86°F)	Approx. 3.7 kΩ → Approx. 1.7 kΩ
TC5 (C32–6) – TCS (C32–15)	BR–R – P–B	Seat heater temperature sensor	Heater temperature: 10°C → 30°C (50°F → 86°F)	Approx. 3.7 kΩ → Approx. 1.7 kΩ

If the result is not as specified, there may be a malfunction on the wire harness side.

(c) Reconnect the C31 and C32 blower connectors.

(d) Measure the voltage and resistance of each terminal of the connector.

Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
IND (C31–7) – Body ground	B–O – Body ground	Climate control switch indicator (rear)	Ignition switch: ON Turn climate control switch: OFF → ON	0 V → 10 to 14 V
INDC (C31–6)* – Body ground	G–B – Body ground	Climate control switch indicator (front)	Ignition switch: ON Turn climate control switch: OFF → ON	0 V → 10 to 14 V
TDB+ (C32–1) – Body ground	LG–B – Body ground	Power supply for seatback Peltier element (WARM)	Ignition switch: ON Turn climate control switch: OFF → Max. WARM	0 V → 10 to 14 V
TDB– (C32–2) – Body ground	B – Body ground	Power supply for seatback Peltier element (COOL)	Ignition switch: ON Turn climate control switch: OFF → Max. COOL	0 V → 10 to 14 V
TDC+ (C32–10) – Body ground	Y – Body ground	Power supply for seat cushion Peltier element (WARM)	Ignition switch: ON Turn climate control switch: OFF → Max. WARM	0 V → 10 to 14 V
TDC– (C32–11) – Body ground	BR–W – Body ground	Power supply for seat cushion Peltier element (COOL)	Ignition switch: ON Turn climate control switch: OFF → Max. COOL	0 V → 10 to 14 V
BBS (C31–3) – Body ground	Y–B – Body ground	Monitor of fan motor (seatback)	Ignition switch: ON Turn climate control switch: OFF → ON (airflow)	0 V → 10 to 14 V
BCS (C31–13) – Body ground	V – Body ground	Monitor of fan motor (seat cushion)	Ignition switch: ON Turn climate control switch: OFF → ON (airflow)	0 V → 10 to 14 V
BFB+ (C31–2) – Body ground	G–W – Body ground	Power supply for fan motor (seatback)	Ignition switch: ON Turn climate control switch: OFF → ON (airflow)	0 V → 10 to 14 V
BFC+ (C31–12) – Body ground	L – Body ground	Power supply for fan motor (seat cushion)	Ignition switch: ON Turn climate control switch: OFF → ON (airflow)	0 V → 10 to 14 V
BFB– (C32–9) – Body ground	GR–R – Body ground	Ground for fan motor (seatback)	Constant	Below 1 Ω
BFC– (C31–1) – Body ground	O – Body ground	Ground for fan motor (seat cushion)	Constant	Below 1 Ω
B (C32–18) – Body ground	V–G – Body ground	Power supply for seat heater	Ignition switch: ON Turn climate control switch: OFF → Max. WARM	0 V → 10 to 14 V

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
E (C32–8) – Body ground	B–R – Body ground	Ground for seat heater	Constant	Below 1 Ω
IDL (C32–3) – Body ground	G – Body ground	Engine idle–up signal	Ignition switch: ON Turn climate control switch: OFF → ON	10 to 14 V → 0 V

HINT:

*: For vehicles with a front seat climate control system

If the result is not as specified, the ECU may have a malfunction.