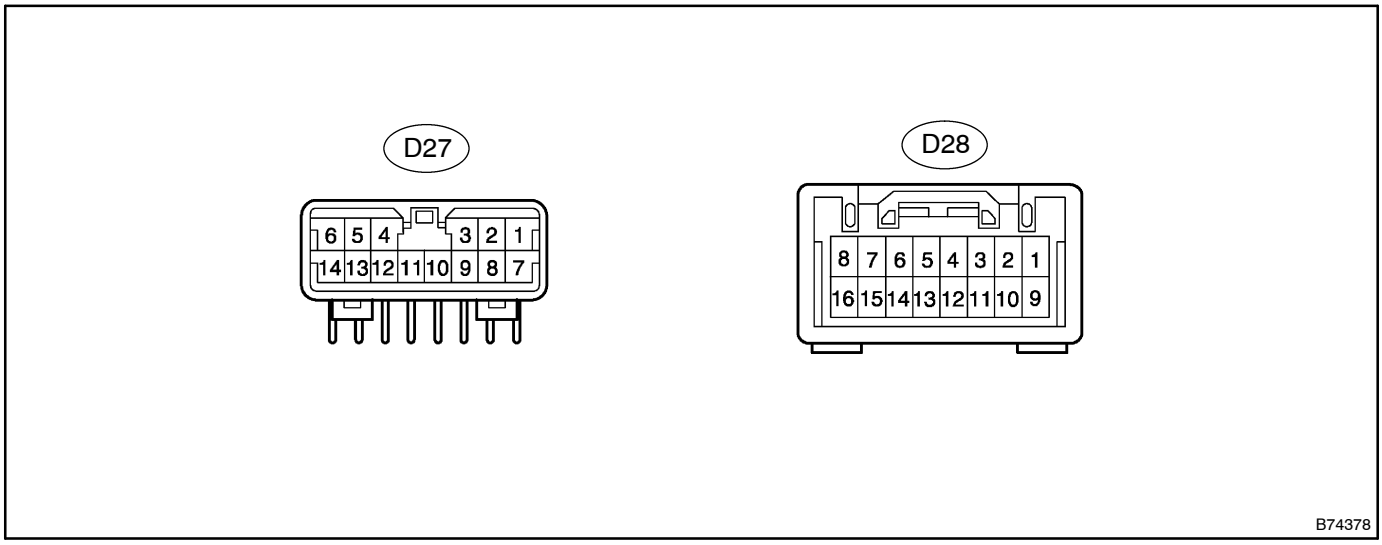
05CUZ–02

TERMINALS OF ECU

1. CHECK DRIVER SEAT ECU



(a) Disconnect the D27 and D28 ECU connectors.

(b) Measure the voltage of each terminal of the wire harness side connectors.

Standard:

LHD models

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
GND (D27–6) – Body ground	W–B – Body ground	Ground	Constant	Below 1 V
SGND (D28–1) – Body ground	BR – Body ground	Ground	Constant	Below 1 V
IG (D28–10) – SGND (D28–1)	R–L – BR	Ignition switch	Ignition switch OFF → ON	0 V → 0 to 14 V
+B (D27–14) – GND (D27–6)	B–R – W–B	Battery	Constant	10 to 14 V
SYSB (D28–9) – SGND (D28–1)	V–Y – BR	Battery	Constant	10 to 14 V

RHD models

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
GND (D27–1) – Body ground	W–B – Body ground	Ground	Constant	Below 1 V
SGND (D28–8) – Body ground	BR – Body ground	Ground	Constant	Below 1 V
IG (D28–15) – SGND (D28–8)	R–L – BR	Ignition switch	Ignition switch OFF → ON	0 V → 0 to 14 V
+B (D27–7) – GND (D27–1)	B–R – W–B	Battery	Constant	10 to 14 V
SYSB (D28–16) – SGND (D28–8)	V–Y – BR	Battery	Constant	10 to 14 V

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

(c) Reconnect the D27 and D28 ECU connectors.
(d) Measure the voltage of each terminal of connectors.
Standard:
LHD models

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
SLD+ (D27–8) – GND (D27–6)	B – W–B	Sliding motor signal (forward)	Seat moving forward using sliding switch Others	10 to 14 V Below 1 V
SLD– (D27–1) – GND (D27–6)	R–B – W–B	Sliding motor signal (rearward)	Seat moving rearward using sliding switch Others	10 to 14 V Below 1 V
FRV+ (D27–5) – GND (D27–6)	R – W–B	Front vertical motor signal (upward)	Seat cushion front portion raising using front vertical switch Others	10 to 14 V Below 1 V
FRV– (D27–2) – GND (D27–6)	L – W–B	Front vertical motor signal (downward)	Seat cushion front portion lowering using front vertical switch switch Others	10 to 14 V Below 1 V
RRV+ (D27–9) – GND (D27–6)	B–R – W–B	Lifter motor signal (upward)	Seat raising using lifter switch Others	10 to 14 V Below 1 V
RRV– (D27–4) – GND (D27–6)	W – W–B	Lifter motor signal (downward)	Seat lowering using lifter switch Others	10 to 14 V Below 1 V
RCL+ (D27–13) – GND (D27–6)	L – W–B	Reclining motor signal (forward)	Seatback moving forward using reclining switch Others	10 to 14 V Below 1 V
RCL– (D27–10) – GND (D27–6)	L–R – W–B	Reclining motor signal (rearward)	Seatback moving rearward using reclining switch Others	10 to 14 V Below 1 V
C+ (D27–7) – GND (D27–6)	B–W – W–B	Seat cushion motor signal (forward)	Seat cushion moving forward using cushion switch Others	10 to 14 V Below 1 V
C– (D27–11) – GND (D27–6)	Y – W–B	Seat cushion motor signal (rearward)	Seat cushion moving rearward using cushion switch Others	10 to 14 V Below 1 V
H+ (D27–12) – GND (D27–6)	B–W – W–B	Headrest motor signal (upward)	Headrest moving upward using headrest switch Others	10 to 14 V Below 1 V
H– (D27–3) – GND (D27–6)	R–L – W–B	Headrest motor signal (downward)	Headrest moving downward using headrest switch Others	10 to 14 V Below 1 V
CSNR (D28–4) – SGND (D28–1)	Y–B – BR	Seat cushion switch signal (rear)	Seat cushion switch OFF → REAR Seat cushion switch OFF → FRONT	Below 1 V 10 to 14 V
CSNF (D28–12) – SGND (D28–1)	Y – BR	Seat cushion switch signal (front)	Seat cushion switch OFF → FRONT Seat cushion switch OFF → REAR	Below 1 V 10 to 14 V
SSRS (D28–5) – SGND (D28–1)	LG – BR	Slide direction position signal	Slide operation	0 to 8 V
SSFV (D28–14) – SGND (D28–1)	LG–R – BR	Front vertical direction position signal	Front vertical operation	0 to 8 V
SSRV (D28–6) – SGND (D28–1)	LG–B – BR	Lifter position signal	Lifter operation	0 to 8 V

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
SSRR (D28–13) – SGND (D28–1)	GR – BR	Reclining position signal	Reclining operation	0 to 8 V
SSRC (D28–15) – SGND (D28–1)	GR–R – BR	Seat cushion position signal	Seat cushion operation	0 to 8 V
SSRH (D28–7) – SGND (D28–1)	O – BR	Headrest position signal	Headrest operation	0 to 8 V
PVCC (D28–16) – SGND (D28–1)	V–W – BR	Position sensor power supply	Power seat operation	8 V
*IDL (D28–8) – Body ground	W – Body ground	Engine Idle–up signal	Ignition switch ON Turn Climate control switch OFF → ON	10 to 14 V → 0 V

HINT:

*: w/ Climate control seat system

RHD models

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
SLD+ (D27–13) – GND (D27–1)	B – W–B	Sliding motor signal (forward)	Seat moving forward using sliding switch Others	10 to 14 V Below 1 V
SLD– (D27–6) – GND (D27–1)	R–B – W–B	Sliding motor signal (rearward)	Seat moving rearward using sliding switch Others	10 to 14 V Below 1 V
FRV+ (D27–2) – GND (D27–1)	R – W–B	Front vertical motor signal (upward)	Seat cushion front portion raising using front vertical switch Others	10 to 14 V Below 1 V
FRV– (D27–5) – GND (D27–1)	L – W–B	Front vertical motor signal (downward)	Seat cushion front portion lowering using front vertical switch switch Others	10 to 14 V Below 1 V
RRV+ (D27–12) – GND (D27–1)	B–R – W–B	Lifter motor signal (upward)	Seat raising using lifter switch Others	10 to 14 V Below 1 V
RRV– (D27–3) – GND (D27–1)	W – W–B	Lifter motor signal (downward)	Seat lowering using lifter switch Others	10 to 14 V Below 1 V
RCL+ (D27–8) – GND (D27–1)	L – W–B	Reclining motor signal (forward)	Seatback moving forward using reclining switch Others	10 to 14 V Below 1 V
RCL– (D27–11) – GND (D27–1)	L–R – W–B	Reclining motor signal (rearward)	Seatback moving rearward using reclining switch Others	10 to 14 V Below 1 V
C+ (D27–14) – GND (D27–1)	B–W – W–B	Seat cushion motor signal (forward)	Seat cushion moving forward using cushion switch Others	10 to 14 V Below 1 V
C– (D27–10) – GND (D27–1)	Y – W–B	Seat cushion motor signal (rearward)	Seat cushion moving rearward using cushion switch Others	10 to 14 V Below 1 V
H+ (D27–9) – GND (D27–1)	B–W – W–B	Headrest motor signal (upward)	Headrest moving upward using headrest switch Others	10 to 14 V Below 1 V
H– (D27–4) – GND (D27–1)	R–L – W–B	Headrest motor signal (downward)	Headrest moving downward using headrest switch Others	10 to 14 V Below 1 V

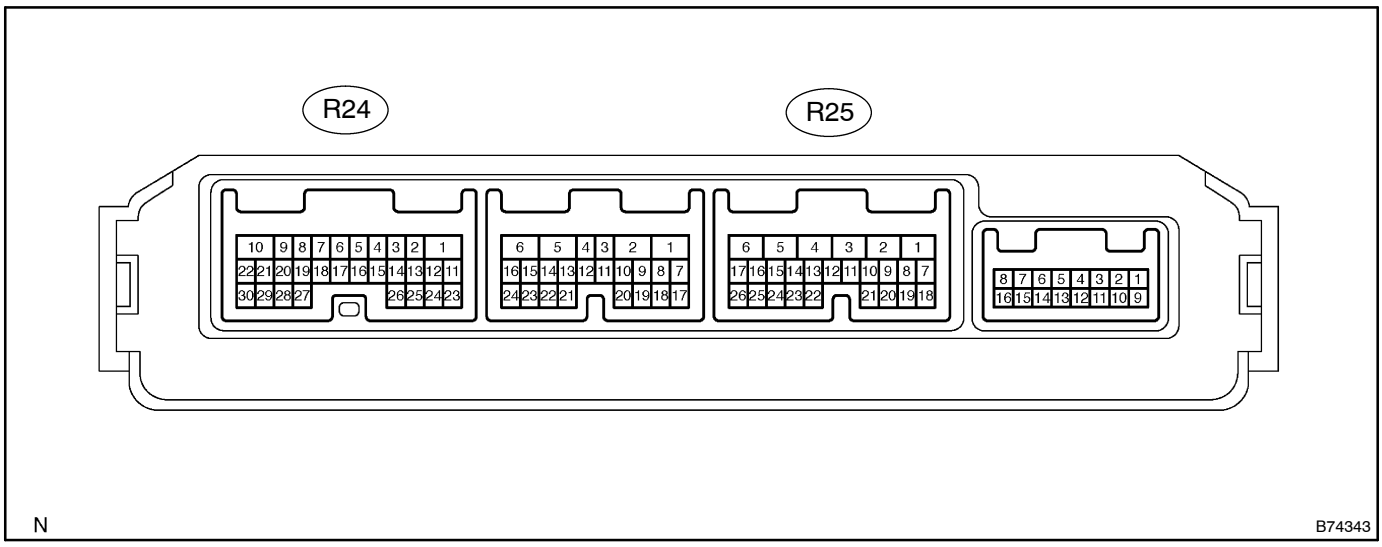
Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
CSNR (D28–5) – SGND (D28–8)	Y–B – BR	Seat cushion switch signal (rear)	Seat cushion switch OFF → REAR Seat cushion switch OFF → FRONT	Below 1 V 10 to 14 V
CSNF (D28–13) – SGND (D28–8)	Y – BR	Seat cushion switch signal (front)	Seat cushion switch OFF → FRONT Seat cushion switch OFF → REAR	Below 1 V 10 to 14 V
SSRS (D28–4) – SGND (D28–8)	LG – BR	Slide direction position signal	Slide operation	0 to 8 V
SSFV (D28–11) – SGND (D28–8)	LG–R – BR	Front vertical direction position signal	Front vertical operation	0 to 8 V
SSRV (D28–3) – SGND (D28–8)	LG–B – BR	Lifter position signal	Lifter operation	0 to 8 V
SSRR (D28–12) – SGND (D28–8)	GR – BR	Reclining position signal	Reclining operation	0 to 8 V
SSRC (D28–10) – SGND (D28–8)	GR–R – BR	Seat cushion position signal	Seat cushion operation	0 to 8 V
SSRH (D28–2) – SGND (D28–8)	O – BR	Headrest position signal	Headrest operation	0 to 8 V
PVCC (D28–9) – SGND (D28–8)	V–W – BR	Position sensor power supply	Power seat operation	8 V
*IDL (D28–1) – Body bround	W – Body ground	Engine Idle–up signal	Ignition switch ON Turn Climate control switch OFF → ON	10 to 14 V → 0 V

HINT:

*: w/ Climate control seat system

If the result is not as specified, replace the power seat or the ECU may be malfunctioning.

2. CHECK DRIVER DOOR ECU



(a) Disconnect the D25 ECU connector.

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

Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
GND (D25–1) – Body ground	W–B – Body ground	Ground	Constant	Below 1 V
CPUB (D25–4) – GND (D25–1)	V–Y – W–B	Battery (ECU power source)	Constant	10 to 14 V

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
SIG (D25–5) – GND (D25–1)	R–L – W–B	Ignition power supply	Ignition switch OFF → ON	0 V → 10 to 14 V
BDR (D25–6) – GND (D25–1)	R – W–B	Battery (ECU power source)	Constant	10 to 14 V

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

(c) Reconnect the D25 ECU connector.

(d) Measure the voltage of each terminal of the D24 ECU connector.

Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
MM (D24–29) – MSWE (D24–28)	GR – BR–W	Memory SET switch signal	Memory SET switch OFF Memory SET switch ON	10 to 14 V Below 1 V
M1 (D24–21) –MSWE (D24–28)	P – BR–W	Memory 1 switch signal	Memory 1 switch OFF Memory 1 switch ON	10 to 14 V Below 1 V
M2 (D24–20) – MSWE (D24–28)	P–B – BR–W	Memory 2 switch signal	Memory 2 switch OFF Memory 2 switch ON	10 to 14 V Below 1 V
M3 (D24–9) – MSWE (D24–28)	P–L – BR–W	Memory 3 switch signal	Memory 3 switch OFF Memory 3 switch ON	10 to 14 V Below 1 V

If the result is not as specified, replace the driver door ECU may be malfunctioning.