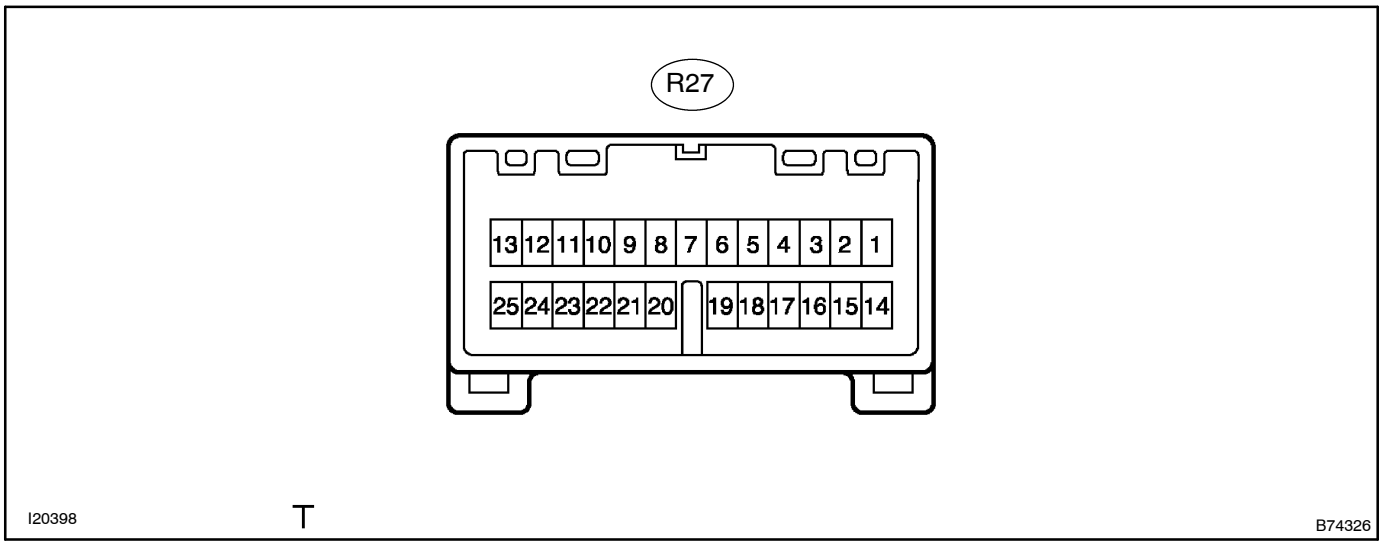
05HS3–01

TERMINALS OF ECU

1. CHECK REAR LH SEAT ECU



(a) Disconnect the R27 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
+B (R27–1) – GND (R27–14)	B – W–B	Battery	Constant	10 to 14 V
GND (R27–14) – Body ground	W–B – Body ground	Ground	Constant	Below 1 V
SYSB (R27–18) – GND (R27–14)	V–Y – W–B	Power source	Constant	10 to 14 V
SGND (R27–23) – GND (R27–14)	W–B – W–B	Ground	Constant	Below 1 V

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

(c) Reconnect the R27 ECU connector.

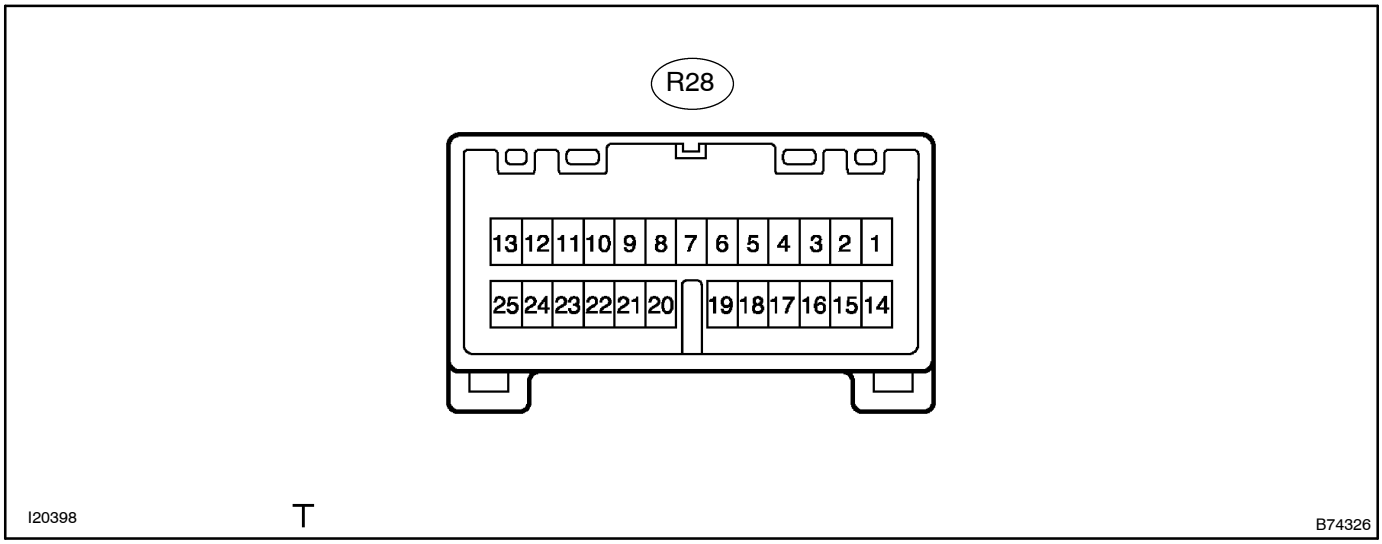
(d) Measure the voltage of each terminal of the ECU connector.

Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
SLD+ (R27–2) – GND (R27–14)	R–B – W–B	Sliding motor signal (forward)	Seat moved forward using slide switch Others	10 to 14 V Below 1 V
PVCC (R27–4) – GND (R27–14)	Y – W–B	Power source for sliding position sensor	Rear power seat slide operation	8 V
STRT (R27–6) – GND (R27–14)	L–R – W–B	Vibrator signal (start)	Refreshing seat ECU communication circuit	–
SSRS (R27–10) – GND (R27–14)	G – W–B	Slide position signal	Slide operation	0 to 8 V
HUP (R27–13) – GND (R27–14)	B–R – W–B	Headrest motor signal (upward)	Headrest moved upward using headrest switch Others	10 to 14 V Below 1 V
SLD – (R27–15) – GND (R27–14)	W – W–B	Sliding motor signal (rearward)	Seat moved rearward using slide switch Others	10 to 14 V Below 1 V
PVC2 (R27–17) – GND (R27–14)	O – W–B	Power source for headrest position sensor	Rear power seat headrest operation	8 V
STOP (R27–19) – GND (R27–14)	G–Y – W–B	Vibrator signal (stop)	Refreshing seat ECU communication circuit	–

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
HRSW (R27–20) – GND (R27–14)	GR–G – W–B	Headrest limit switch signal	Headrest limit switch ON (Headrest position raised to maximum) Headrest limit switch OFF (Headrest position anywhere except raised to maximum)	Below 1 V 10 to 14 V
SSRH (R27–22) – GND (R27–14)	R – W–B	Headrest position signal	Headrest operation	0 to 8 V
HDWN (R27–25) – GND (R27–14)	R–L – W–B	Headrest motor signal (downward)	Headrest moved downward using headrest switch Others	10 to 14 V Below 1 V

2. CHECK REAR RH SEAT ECU



(a) Disconnect the R28 ECU connector.
(b) Measure the voltage of each terminal of the wire harness side connector.
Standard:

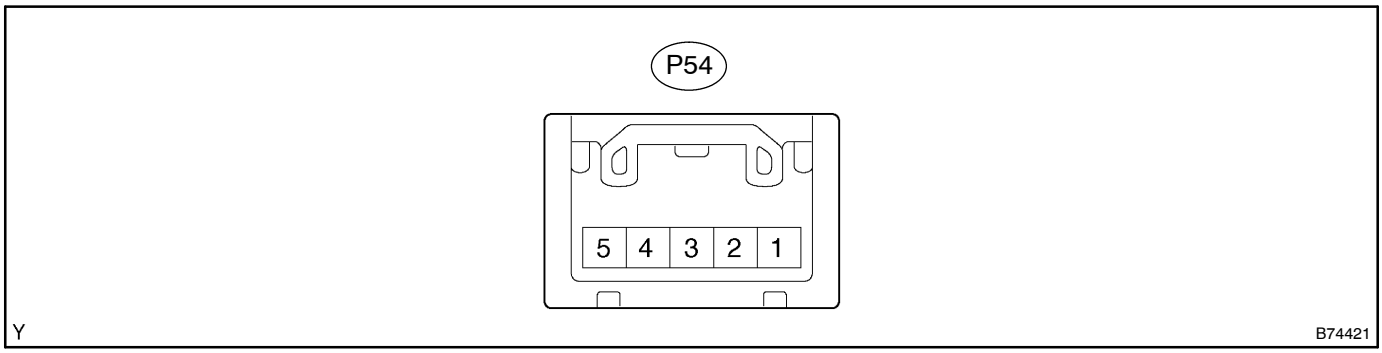
Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
+B (R28–1) – GND (R28–14)	L – W–B	Battery	Constant	10 to 14 V
GND (R28–14) – Body ground	W–B – Body ground	Ground	Constant	Below 1 V
SYSB (R28–18) – GND (R28–14)	V–Y – W–B	Power source	Constant	10 to 14 V
SGND (R28–23) – GND (R28–14)	W–B – W–B	Ground	Constant	Below 1 V
SEL (R28–11) – GND (R28–14)	W–B – W–B	Ground	Constant	Below 1 V

If the result is not as specified, there may be a malfunction on the wire harness side.
(c) Reconnect the R28 ECU connector.
(d) Measure the voltage of each terminal of the ECU connector.
Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
SLD+ (R28–2) – GND (R28–14)	R–B – W–B	Sliding motor signal (forward)	Seat moved forward using slide switch Others	10 to 14 V Below 1 V
PVCC (R28–4) – GND (R28–14)	O – W–B	Power source for sliding position sensor	Rear power seat slide operation	8 V

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
STRT (R28–6) – GND (R28–14)	G–Y – W–B	Vibrator signal (start)	Refreshing seat ECU communication circuit	–
SSRS (R28–10) – GND (R28–14)	G – W–B	Slide position signal	Slide operation	0 to 8 V
HUP (R28–13) – GND (R28–14)	W – W–B	Headrest motor signal (upward)	Headrest moved upward using headrest switch Others	10 to 14 V Below 1 V
SLD– (R28–15) – GND (R28–14)	B – W–B	Sliding motor signal (rearward)	Seat moved rearward using slide switch Others	10 to 14 V Below 1 V
PVC2 (R28–17) – GND (R28–14)	Y – W–B	Power source for headrest position sensor	Rear power seat headrest operation	8 V
STOP (R28–19) – GND (R28–14)	L–R – W–B	Vibrator signal (stop)	Refreshing seat ECU communication circuit	–
HRSW (R28–20) – GND (R28–14)	GR–L – W–B	Headrest limit switch signal	Headrest limit switch ON (Headrest position raised to maximum) Headrest limit switch OFF (Headrest position anywhere except raised to maximum)	Below 1 V 10 to 14 V
SSRH (R28–22) – GND (R28–14)	R – W–B	Headrest position signal	Headrest operation	0 to 8 V
HDWN (R28–25) – GND (R28–14)	R–L – W–B	Headrest motor signal (downward)	Headrest moved downward using headrest switch Others	10 to 14 V Below 1 V

3. CHECK REAR SEAT CONTROL SWITCH



(a) Disconnect the P54 switch connector.

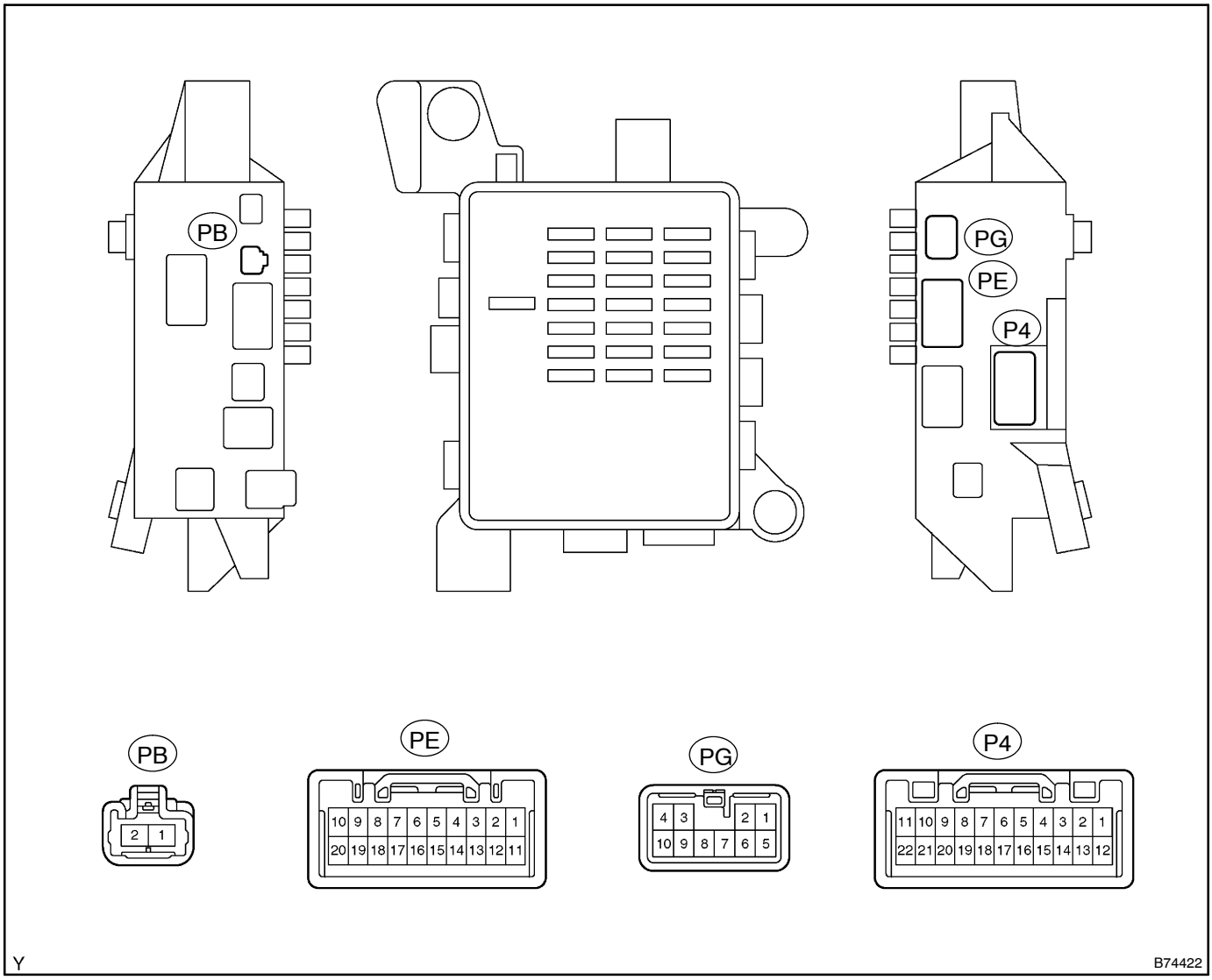
(b) Measure the voltage of each terminal of the wire harness side connector.

Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
SYSB (P54–5) – E (P54–1)	G–W – W–B	Power source	Constant	10 to 14 V
E (P54–1) – Body ground	W–B – Body ground	Ground	Constant	Below 1 V

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

4. CHECK PASSENGER SIDE J/B ECU



(a) Disconnect the PB, PE and PG J/B and P4 ECU connectors.

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

Standard:

LHD models

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
MPX–B (PB–1) – GND (PG–8)	R–L – W–B	Battery	Constant	10 to 14 V
MPX–IG (PE–3) – GND (PG–8)	R–L – W–B	Power source	Ignition switch OFF → ON	0 V → 10 to 14 V
GND (PG–8) – Body ground	W–B – Body ground	Ground	Constant	Below 1 V
GND1 (P4–11) – Body ground	W–B – Body ground	Ground	Constant	Below 1 V

RHD models

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
MPX–B (PB–2) – GND (PG–7)	R–L – W–B	Battery	Constant	10 to 14 V
MPX–IG (PE–7) – GND (PG–7)	R–L – W–B	Power source	Ignition switch OFF → ON	0 V → 10 to 14 V

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
GND (PG–7) – Body ground	W–B – Body ground	Ground	Constant	Below 1 V
GND1 (P4–1) – Body ground	W–B – Body ground	Ground	Constant	Below 1 V

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

(c) Reconnect the PB, PE and PG J/B and P4 ECU connectors.

(d) Measure the voltage of each terminal of the P4 connector.

Standard:

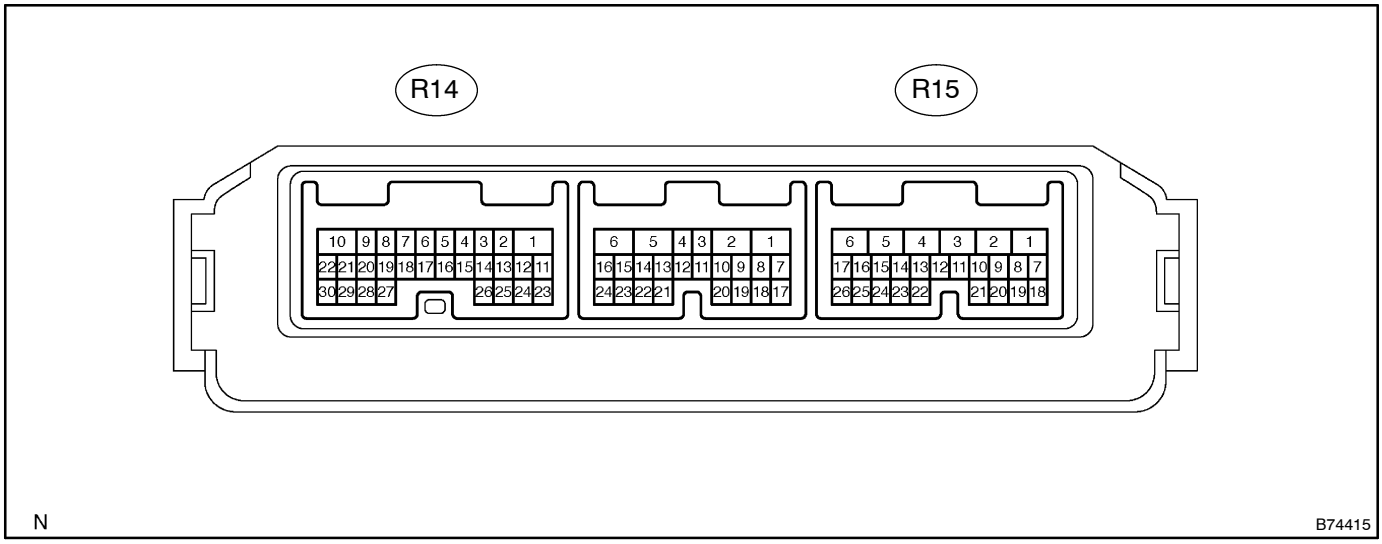
LHD models

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
RRSW (P4–19) – GND1 (P4–11)	Y – W–B	Rear seat return switch signal	Rear seat return switch ON Rear seat return switch OFF	Below 1 V 10 to 14 V

RHD models

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
RRSW (P4–15) – GND1 (P4–11)	Y – W–B	Rear seat return switch signal	Rear seat return switch ON Rear seat return switch OFF	Below 1 V 10 to 14 V

5. CHECK REAR DOOR LH ECU



(a) Disconnect the R15 ECU connector.

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

Standard:

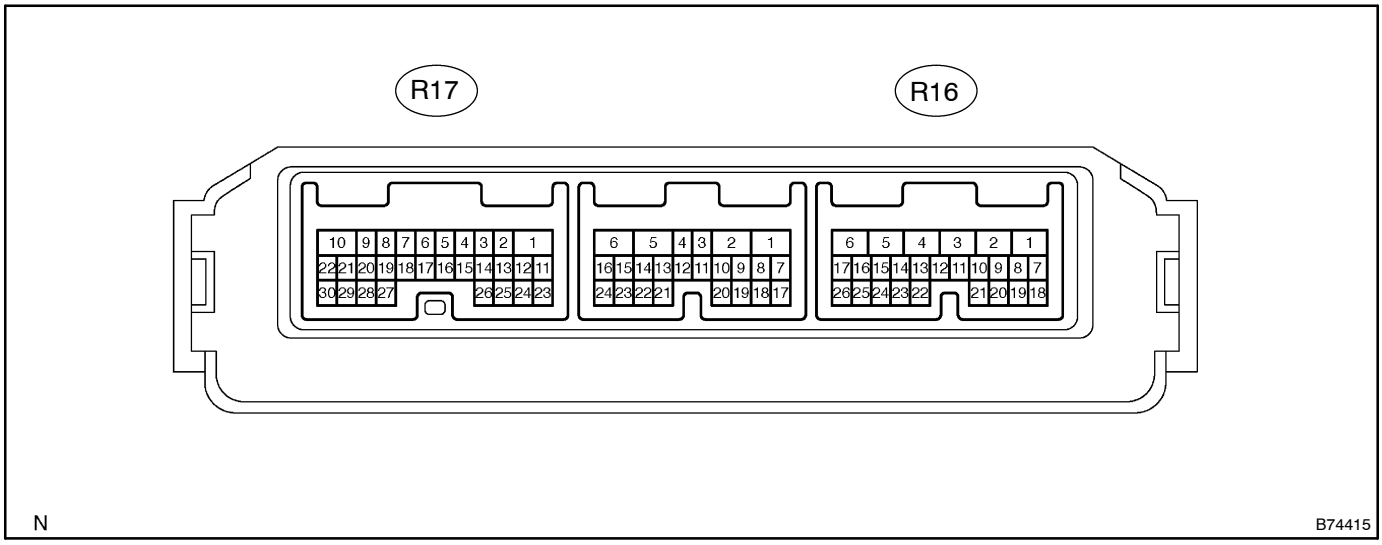
Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
CPUB (R15–1) – GND (R15–6)	V–Y – W–B	Power supply	Constant	10 to 14 V
BDR (R15–2) – GND (R15–6)	R–B – W–B	Power supply	Constant	10 to 14 V
GND (R15–6) – Body ground	W–B – Body ground	Ground	Constant	Below 1 V
SIG (R15–26) – GND (R15–6)	R–L – W–B	Power supply	Ignition switch OFF → ON	0 V → 10 to 14 V

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

(c) Reconnect the R15 ECU connector.
(d) Measure the voltage of each terminal of the ECU connectors.
Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
CTY (R15–7) – GND (R15–6)	L – W–B	Rear LH side door courtesy switch signal	Rear LH side door courtesy switch ON (door open) Rear LH side door courtesy switch OFF (door closed)	Below 1 V 10 to 14 V
SET (R14–4) – MSWE (R14–30)	GR – BR–W	Memory SET switch signal	Memory SET switch OFF Memory SET switch ON	10 to 14 V Below 1 V
M (R14–7) – MSWE (R14–30)	B–R – BR–W	Memory M switch signal	Memory M switch OFF Memory M switch ON	10 to 14 V Below 1 V
CAN (R14–8) – MSWE (R14–30)	P–B – BR–W	Memory C switch signal	Memory C switch OFF Memory C switch ON	10 to 14 V Below 1 V
IND (R14–9) – MSWE (R14–30)	P–L – BR–W	Cancel indicator output signal	Rear seat memory cancel switch OFF Rear seat memory cancel switch ON	10 to 14 V Below 1 V

6. CHECK REAR DOOR RH ECU



(a) Disconnect the R16 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
CPUB (R16–1) – GND (R16–6)	V–Y – W–B	Power supply	Constant	10 to 14 V
BDR (R16–2) – GND (R16–6)	R–W – W–B	Power supply	Constant	10 to 14 V
GND (R16–6) – Body ground	W–B – Body ground	Ground	Constant	Below 1 V
SIG (R16–26) – GND (R16–6)	R–L – W–B	Power supply	Ignition switch OFF → ON	0 V → 10 to 14 V

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

(c) Reconnect the R16 ECU connector.

(d) Measure the voltage of each terminal of the ECU connectors.

Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
CTY (R16–7) – GND (R16–6)	L – W–B	Rear RH side door courtesy switch signal	Rear RH side door courtesy switch ON (door open) Rear RH side door courtesy switch OFF (door closed)	Below 1 V 10 to 14 V
SET (R17–4) – MSWE (R17–30)	GR – BR–W	Memory SET switch signal	Memory SET switch OFF Memory SET switch ON	10 to 14 V Below 1 V
M (R17–7) – MSWE (R17–30)	B–R – BR–W	Memory M switch signal	Memory M switch OFF Memory M switch ON	10 to 14 V Below 1 V
CAN (R17–8) – MSWE (R17–30)	P–B – BR–W	Memory C switch signal	Memory C switch OFF Memory C switch ON	10 to 14 V Below 1 V
IND (R17–9) – MSWE (R17–30)	P–L – BR–W	Cancel indicator output signal	Rear seat memory cancel switch OFF Rear seat memory cancel switch ON	10 to 14 V Below 1 V