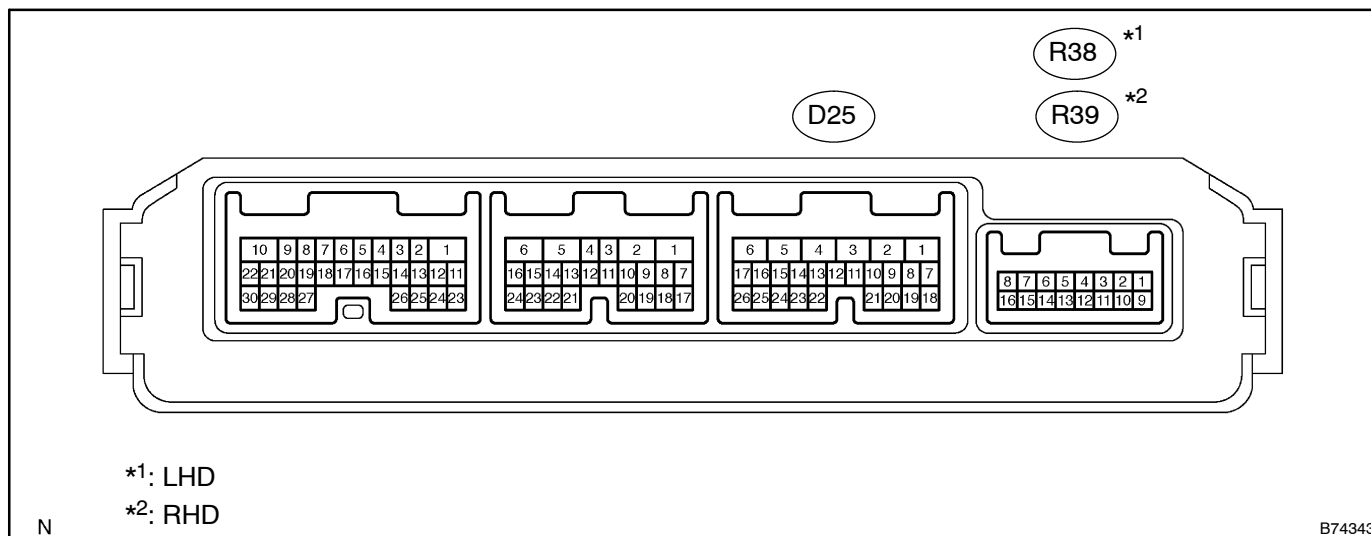


TERMINALS OF ECU

1. CHECK DRIVER DOOR ECU



- Disconnect the D25 ECU connector.
- 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
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.

- Reconnect the D25 ECU connector.
- Measure the voltage of each terminal of the D25 and R38 (LHD) or R39 (RHD) ECU connectors.

Standard:

LHD models

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
#M+R (R38-10) – GND (D25-1)	B – W-B	Mirror master switch signal (Right or Down)	Driver remote control mirror is not operating. Driver remote control mirror is operating to UP or LEFT. Driver remote control mirror is operating to DOWN or RIGHT.	Below 1 V Below 1 V 10 to 14 V
#MHR (R38-9) – GND (D25-1)	R – W-B	Mirror control switch signal (Left or Down)	Driver remote control mirror is not operating. Driver remote control mirror is operating to UP or RIGHT. Driver remote control mirror is operating to LEFT or DOWN.	Below 1 V Below 1 V 10 to 14 V

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
#MVR (R38-1) – GND (D25-1)	W – W-B	Mirror control switch signal (Up or Right)	Driver remote control mirror is not operating. Driver remote control mirror is operating to DOWN or LEFT. Driver remote control mirror is operating to UP or RIGHT.	Below 1 V Below 1 V 10 to 14 V
VSSR (R38-6) – #E2 (R38-14)	V – GR	Vertical direction position signal	Vertical direction of mirror position sensor circuit.	–
HSSR (R38-13) – #E2 (R38-14)	LG – GR	Horizontal direction position signal	Horizontal direction of mirror position sensor circuit.	–
#VC (R38-5) – #E2 (R38-14)	SB – GR	Power source for mirror position sensor	Ignition switch ACC or OFF during sleep mode. Ignition switch ON.	Below 1 V 4.8 to 5.2 V
MR+ (R38-3) – MR- (R38-11)	G – L	Mirror retract switch signal	Driver remote control mirror retract system is not operating. Driver remote control mirror retract system is RE-TRACT operating.	Below 1 V 10 to 14 V
EC+ (R38-7) – EC- (R38-15)	BR – B-L	Mirror EC signal	Electrochromic mirror system is operating. Electrochromic mirror system is not operating.	10 to 14 V Below 1 V
HTR+ (R38-4) – HTR- (R38-12)	BR-W – B-R	Mirror defogger signal	Mirror defogger switch ON. Mirror defogger switch OFF.	10 to 14 V Below 1 V
ECI+ (D25-7) – ECI- (D25-18)	G-R – BR-B	Mirror EC signal	Electrochromic mirror system is operating. Electrochromic mirror system is not operating.	10 to 14 V Below 1 V

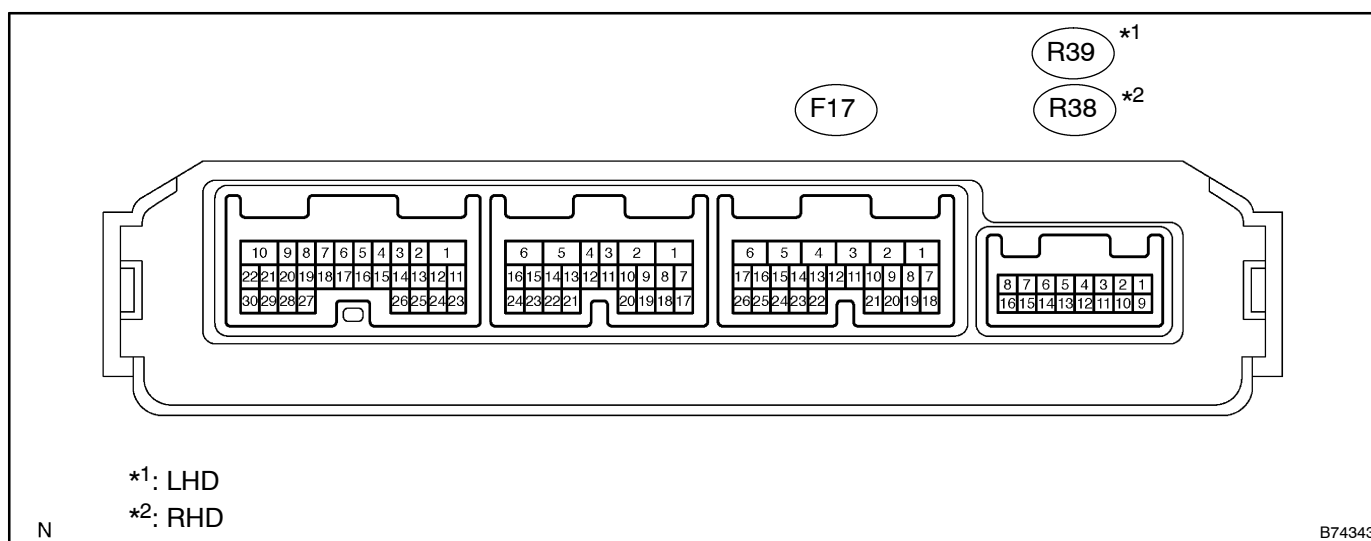
RHD models

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
#M+R (R39-10) – GND (D25-1)	B – W-B	Mirror master switch signal (Right or Down)	Driver remote control mirror is not operating. Driver remote control mirror is operating to UP or LEFT. Driver remote control mirror is operating to DOWN or RIGHT.	Below 1 V Below 1 V 10 to 14 V
#MHR (R39-9) – GND (D25-1)	R – W-B	Mirror control switch signal (Left or Down)	Driver remote control mirror is not operating. Driver remote control mirror is operating to UP or RIGHT. Driver remote control mirror is operating to LEFT or DOWN.	Below 1 V Below 1 V 10 to 14 V
#MVR (R39-1) – GND (D25-1)	W – W-B	Mirror control switch signal (Up or Right)	Driver remote control mirror is not operating. Driver remote control mirror is operating to DOWN or LEFT. Driver remote control mirror is operating to UP or RIGHT.	Below 1 V Below 1 V 10 to 14 V

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
VSSR (R39-6) – #E2 (R39-14)	V – GR	Vertical direction position signal	Vertical direction of mirror position sensor circuit.	–
HSSR (R39-13) – #E2 (R39-14)	LG – GR	Horizontal direction position signal	Horizontal direction of mirror position sensor circuit.	–
#VC (R39-5) – #E2 (R39-14)	SB – GR	Power source for mirror position sensor	Ignition switch ACC or OFF during sleep mode. Ignition switch ON.	Below 1 V 4.8 to 5.2 V
MR+ (R39-3) – MR- (R39-11)	G – L	Mirror retract switch signal	Driver remote control mirror retract system is not operating. Driver remote control mirror retract system is RE-TRACT operating.	Below 1 V 10 to 14 V
EC+ (R39-7) – EC- (R39-15)	BR – B-L	Mirror EC signal	Electrochromic mirror system is operating. Electrochromic mirror system is not operating.	10 to 14 V Below 1 V
HTR+ (R39-4) – HTR- (R39-12)	BR-W – B-R	Mirror defogger signal	Mirror defogger switch ON. Mirror defogger switch OFF.	10 to 14 V Below 1 V
ECI+ (D25-7) – ECI- (D25-18)	G-R – BR-B	Mirror EC signal	Electrochromic mirror system is operating. Electrochromic mirror system is not operating.	10 to 14 V Below 1 V

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

2. CHECK FRONT PASSENGER DOOR ECU



- Disconnect the F17 ECU connector.
- Measure the voltage of each terminal of the wire harness side connector.

Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
GND (F17-1) – Body ground	W-B – Body ground	Ground	Constant	Below 1 V
CPUB (F17-4) – GND (F17-1)	V-Y – W-B	Battery (ECU power source)	Constant	10 to 14 V

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
SIG (F17-5) – GND (F17-1)	R-L – W-B	Ignition power supply	Ignition switch OFF → ON	0 V → 10 to 14 V
BDR (F17-6) – GND (F17-1)	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 F17 ECU connector.

(d) Measure the voltage of each terminal of the F17 and R39 (LHD) or R38 (RHD) ECU connectors.

Standard:

LHD models

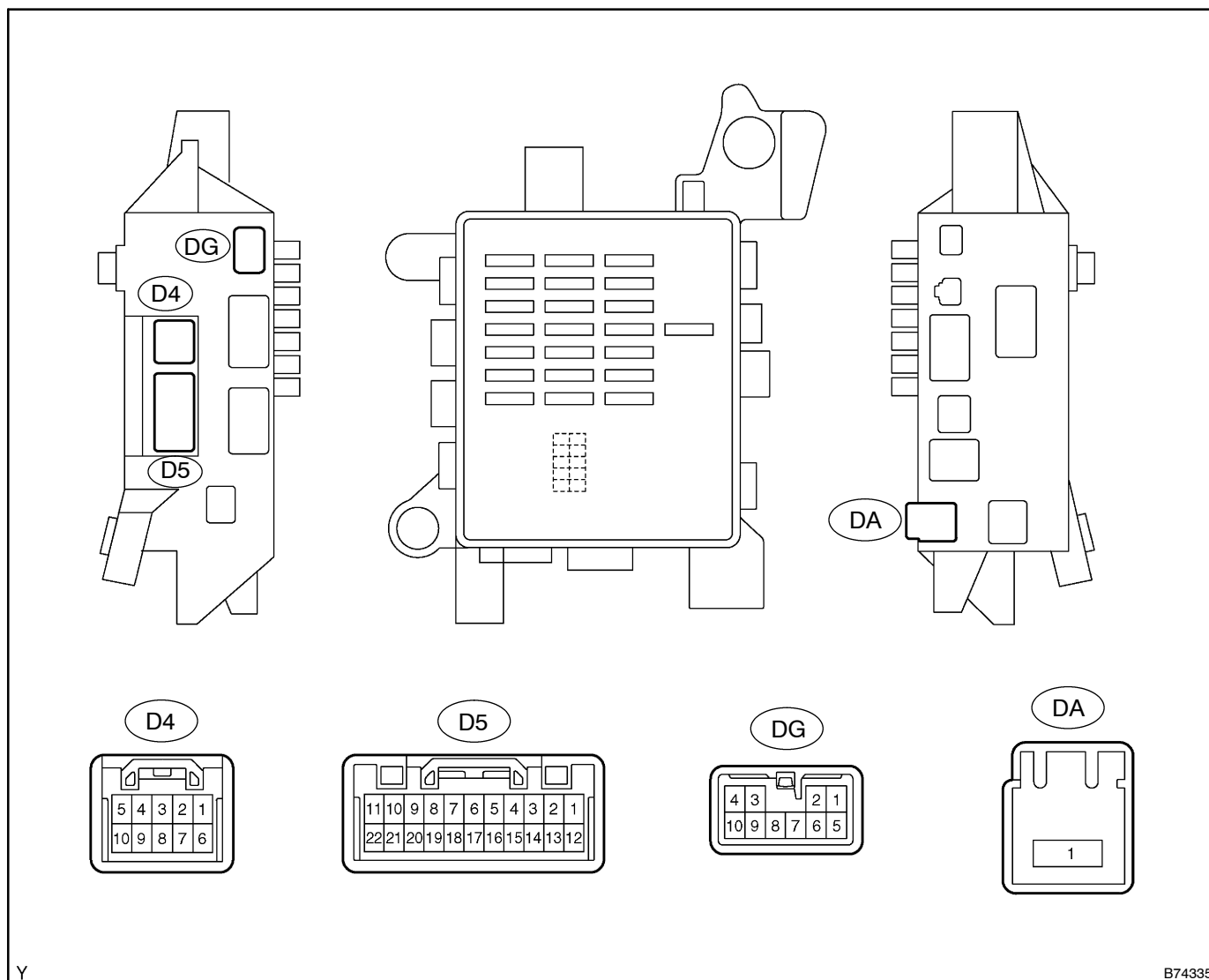
Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
#M+R (R39-10) – GND (F17-1)	B – W-B	Mirror master switch signal (Right or Down)	Passenger remote control mirror is not operating. Passenger remote control mirror is operating to UP or LEFT. Passenger remote control mirror is operating to DOWN or RIGHT.	Below 1 V Below 1 V 10 to 14 V
#MHR (R39-9) – GND (F17-1)	R – W-B	Mirror control switch signal (Left or Down)	Passenger remote control mirror is not operating. Passenger remote control mirror is operating to UP or RIGHT. Passenger remote control mirror is operating to LEFT or DOWN.	Below 1 V Below 1 V 10 to 14 V
#MVR (R39-1) – GND (F17-1)	W – W-B	Mirror control switch signal (Up or Right)	Passenger remote control mirror is not operating. Passenger remote control mirror is operating to DOWN or LEFT. Passenger remote control mirror is operating to UP or RIGHT.	Below 1 V Below 1 V 10 to 14 V
VSSR (R39-6) – #E2 (R39-14)	V – GR	Vertical direction position signal	Vertical direction of mirror position sensor circuit.	–
HSSR (R39-13) – #E2 (R39-14)	LG – GR	Horizontal direction position signal	Horizontal direction of mirror position sensor circuit.	–
#VC (R39-5) – #E2 (R39-14)	SB – GR	Power source for mirror position sensor	Ignition switch ACC or OFF during sleep mode. Ignition switch ON.	Below 1 V 4.8 to 5.2 V
MR+ (R39-3) – MR- (R39-11)	G – L	Mirror retract switch signal/ (Retracted)	Passenger remote control mirror retract system is not operating. Passenger remote control mirror retract system is RETRACT operating.	Below 1 V 10 to 14 V
EC+ (R39-7) – EC- (R39-15)	BR – B-L	Mirror EC signal	Electrochromic mirror system is operating. Electrochromic mirror system is not operating.	10 to 14 V Below 1 V
HTR+ (R39-4) – HTR- (R39-12)	BR-W – B-R	Mirror defogger signal	Mirror defogger switch ON. Mirror defogger switch OFF.	10 to 14 V Below 1 V
ECI+ (F17-7) – ECI- (F17-18)	G-R – BR-B	Mirror EC signal	Electrochromic mirror system is operating. Electrochromic mirror system is not operating.	10 to 14 V Below 1 V

RHD models

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
#M+R (R38-10) – GND (F17-1)	B – W-B	Mirror master switch signal (Right or Down)	Passenger remote control mirror is not operating. Passenger remote control mirror is operating to UP or LEFT. Passenger remote control mirror is operating to DOWN or RIGHT.	Below 1 V Below 1 V 10 to 14 V
#MHR (R38-9) – GND (F17-1)	R – W-B	Mirror control switch signal (Left or Down)	Passenger remote control mirror is not operating. Passenger remote control mirror is operating to UP or RIGHT. Passenger remote control mirror is operating to LEFT or DOWN.	Below 1 V Below 1 V 10 to 14 V
#MVR (R38-1) – GND (F17-1)	W – W-B	Mirror control switch signal (Up or Right)	Passenger remote control mirror is not operating. Passenger remote control mirror is operating to DOWN or LEFT. Passenger remote control mirror is operating to UP or RIGHT.	Below 1 V Below 1 V 10 to 14 V
VSSR (R38-6) – #E2 (R38-14)	V – GR	Vertical direction position signal	Vertical direction of mirror position sensor circuit.	–
HSSR (R38-13) – #E2 (R38-14)	LG – GR	Horizontal direction position signal	Horizontal direction of mirror position sensor circuit.	–
#VC (R38-5) – #E2 (R38-14)	SB – GR	Power source for mirror position sensor	Ignition switch ACC or OFF during sleep mode. Ignition switch ON.	Below 1 V 4.8 to 5.2 V
MR+ (R38-3) – MR- (R38-11)	G – L	Mirror retract switch signal/ (Retracted)	Passenger remote control mirror retract system is not operating. Passenger remote control mirror retract system is RETRACT operating.	Below 1 V 10 to 14 V
EC+ (R38-7) – EC- (R38-15)	BR – B-L	Mirror EC signal	Electrochromic mirror system is operating. Electrochromic mirror system is not operating.	10 to 14 V Below 1 V
HTR+ (R38-4) – HTR- (R38-12)	BR-W – B-R	Mirror defogger signal	Mirror defogger switch ON. Mirror defogger switch OFF.	10 to 14 V Below 1 V
ECI+ (F17-7) – ECI- (F17-18)	G-R – BR-B	Mirror EC signal	Electrochromic mirror system is operating. Electrochromic mirror system is not operating.	10 to 14 V Below 1 V

If the result is not as specified, replace the remote control mirror or the passenger door ECU may be malfunctioning.

3. CHECK DRIVER SIDE J/B ECU



- Disconnect DA, DG JB and D4 ECU connectors.
- 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 (DG-8) - Body ground	W-B - Body ground	Ground	Constant	Below 1 V
MPX-IG (DA-1) - GND (DG-8)	B-W - W-B	Power Supply	Constant	10 to 14 V
GND2 (D4-1) - Body ground	W-B - Body ground	Ground	Constant	Below 1 V
MPX-B (D4-5) - GND (DG-8)	R-B - W-B	Power Supply	Constant	10 to 14 V

RHD models

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
GND (DG-7) - Body ground	W-B - Body ground	Ground	Constant	Below 1 V
MPX-IG (DA-1) - GND (DG-7)	B-W - W-B	Power Supply	Constant	10 to 14 V

DIAGNOSTICS – POWER MIRROR CONTROL SYSTEM (W/ MEMORY)

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
GND2 (D4-5) – Body ground	W-B – Body ground	Ground	Constant	Below 1 V
MPX-B (D4-1) – GND (DG-7)	R-B – W-B	Power Supply	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 DA, DG JB and D4 ECU connectors.
- (d) Measure the voltage of each terminal of the connectors.

Standard:**LHD models**

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
R/E (D5-7) – Body ground	LG – Body ground	Ground	Constant	Below 1 V
MSW (D5-10) – R/E (D5-7)	R-G – LG	Mirror master switch signal (Left or Right)	Mirror master switch OFF Mirror master switch LEFT or RIGHT	Below 1 V 0 to 5 V
M+ (D5-11) – R/E (D5-7)	B – LG	Mirror control switch signal (Up, Down, Left or Right)	Mirror control switch neu- tral position Mirror control switch each position	Below 1 V 0 to 5 V
RET (D5-8) – GND2 (D4-1)	L-B – W-B	Mirror retract switch signal (Retracted)	Mirror retract switch OFF Mirror retract switch RE- TRACT	Below 1 V 10 to 14 V
RTR (D5-9) – GND2 (D4-1)	GR – W-B	Mirror retract switch signal (Returned)	Mirror retract switch OFF Mirror retract switch RE- TRACT	Below 1 V 10 to 14 V
MIND (D5-19) – GND2 (D4-1)	P – W-B	Retract and return indica- tion signal	Mirror is not in retract posi- tion Mirror is retract position	Below 1 V 10 to 14 V

RHD models

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
R/E (D5-7) – Body ground	LG – Body ground	Ground	Constant	Below 1 V
MSW (D5-6) – R/E (D5-7)	R-G – LG	Mirror master switch signal (Left or Right)	Mirror master switch OFF Mirror master switch LEFT or RIGHT	Below 1 V 0 to 5 V
M+ (D5-5) – R/E (D5-7)	BR-B – LG	Mirror control switch signal (Up, Down, Left or Right)	Mirror control switch neu- tral position Mirror control switch each position	Below 1 V 0 to 5 V
RET (D5-9) – GND2 (D4-5)	G-O – W-B	Mirror retract switch signal (Retracted)	Mirror retract switch OFF Mirror retract switch RE- TRACT	Below 1 V 10 to 14 V
RTR (D5-8) – GND2 (D4-5)	GR – W-B	Mirror retract switch signal (Returned)	Mirror retract switch OFF Mirror retract switch RE- TRACT	Below 1 V 10 to 14 V
MIND (D5-17) – GND2 (D4-5)	P – W-B	Retract and return indica- tion signal	Mirror is not in retract posi- tion Mirror is retract position	Below 1 V 10 to 14 V

If the result is not as specified, replace the outer mirror switch or the ECU may be malfunctioning.