PROBLEM SYMPTOMS TABLE

HINT:

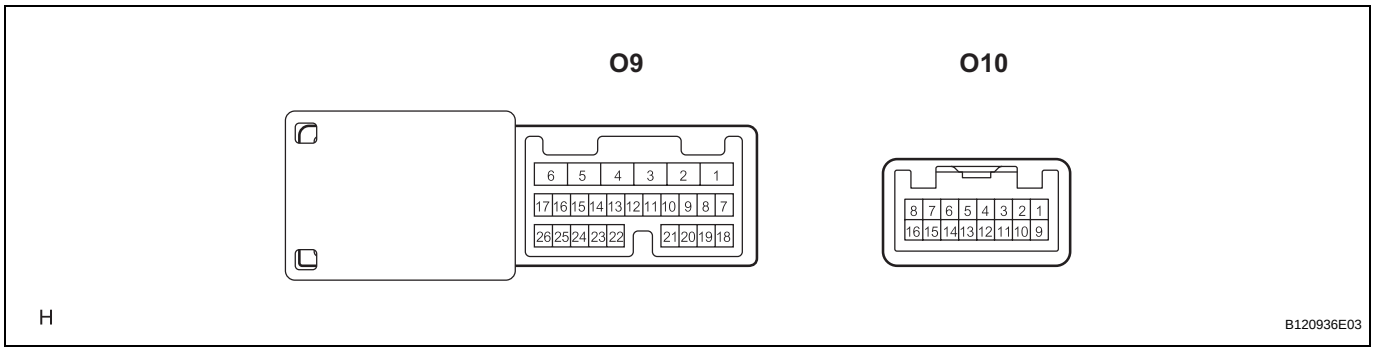
- Use the table below to help determine the cause of the problem symptoms. The potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.
- Inspect the fuses and relays related to this system before inspecting the suspected areas below.

Power Mirror Control System

Symptom	Suspected area	See page
Power mirror cannot be adjusted manually.	1. ECU power source circuit	MI-35
	2. Mirror switch circuit	MI-21
	3. Mirror motor circuit	MI-24
	4. Replace outer mirror control switch	MI-24
	5. Replace outer mirror control ECU	-
Either driver side or passenger side power mirror cannot be adjusted manually.	1. ECU power source circuit	MI-35
	2. Mirror switch circuit	MI-21
	3. Mirror motor circuit	MI-24
	4. Replace outer mirror control switch	-
	5. Replace outer rear view mirror	MI-41
	6. Replace outer mirror control ECU	-
Power mirrors do not move to memorized positions.	1. ECU power source circuit	MI-35
	2. Mirror switch circuit	MI-21
	3. Mirror motor circuit	MI-24
	4. Replace outer mirror control switch	-
	5. Replace outer rear view mirror	MI-41
	6. Replace outer mirror control ECU	-
Foot lamp does not light up.	1. Lighting System	LI-7
	HINT: Front interior light, illumination and center console spots is abnormal light up.	
	2. Foot light circuit	MI-17
	3. Replace outer mirror control ECU	-
	4. Replace outer rear view mirror	MI-41
Memory function does not operate.	1. Position sensor circuit	MI-28
	2. Replace power seat control ECU & power seat switch	-
	3. Replace outer mirror control ECU	-
	4. Replace outer rear view mirror	MI-41
Automatic glare-resistant clectrochromic mirror system does not operate.	1. Inner rear view mirror	MI-40
	2. Outer rear view mirror	MI-42
	3. Wire harness	-
Mirror heater system does not operate.	1. Check window defogger system	WS-65
	2. Replace outer rear view mirror	MI-41
	3. Wire harness	-

TERMINALS OF ECU

1. CHECK OUTER MIRROR CONTROL ECU LH



(a) Disconnect the O9 and O10 connectors.
(b) Measure the voltage and resistance according to the value(s) in the table below.

Voltage

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
SIG (O9-3) - Body ground	B-R - Body ground	Ignition power supply	Ignition switch OFF → ON	Below 1 V → 10 to 14 V
CPUB (O9-4) - Body ground	W-L - Body ground	+B power supply	Always	10 to 14 V
BDR (O9-6) - Body ground	R-L - Body ground	+B power supply	Always	10 to 14 V

Resistance

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
GND (O9-1) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω
SEL1 (O9-21) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω
MPX1 (O9-8) - Body ground	R-L - Body ground	Multiplex communication line	Always	10 kΩ or higher
M1 (O9-22) - Body ground	B-W - Body ground	Memory switch SET1 signal	Memory switch SET1 FREE → PUSHED	10 kΩ or higher → Below 1 Ω
M2 (O9-23) - Body ground	V - Body ground	Memory switch SET2 signal	Memory switch SET2 FREE → PUSHED	10 kΩ or higher → Below 1 Ω
MM (O9-25) - Body ground	W-R - Body ground	Memory switch MEMORY signal	Memory switch MEMORY FREE → PUSHED	10 kΩ or higher → Below 1 Ω

MI

If the result is not as specified, there may be a malfunction on the wire harness side.
(c) Reconnect the O9 and O10 connectors.
(d) Measure the voltage according to the value(s) in the table below.

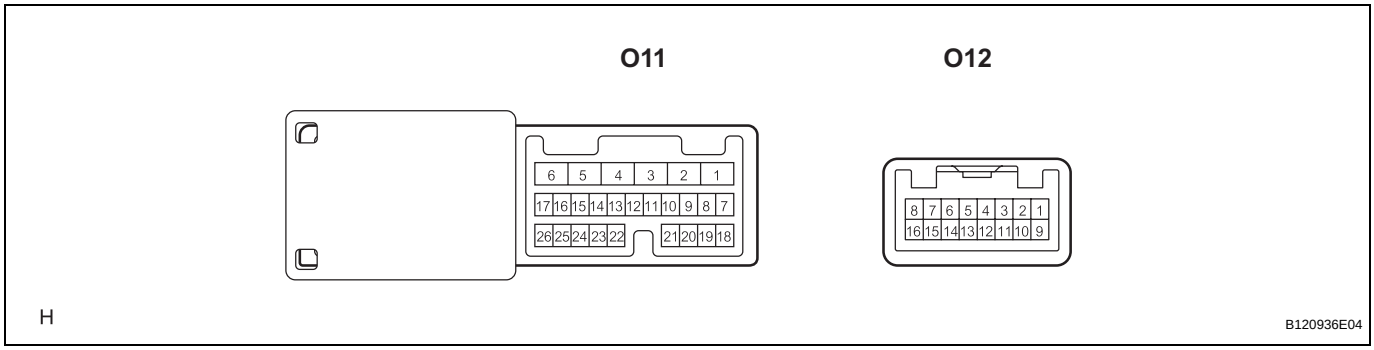
Voltage

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
DMVR (O10-1) - Body ground	LG - Body ground	Outer mirror switch signal (Up or Right)	Ignition switch on (IG), Left/Right adjustment switch L side, Mirror switch OFF→ UP or Right	Below 1 V → 10 to 14 V
DVC (O10-5) - DE2 (O10-14)	Y - GR	Power source for mirror position sensor	Ignition switch OFF → ON	Below 1 V → 1 to 5 V

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
VSSR (O10-6) - Body ground	G - Body ground	Vertical direction position signal	Ignition switch on, Left/ Right adjustment switch L side, Mirror switch uppermost position → lowermost position	Below 1 V → 1 to 3V
DMHR (O10-9) - Body ground	P - Body ground	Outer mirror switch signal (Left or Down)	Ignition switch on, Left/ Right adjustment switch L side, Mirror switch OFF→ LEFT or DOWN	Below 1 V → 10 to 14 V
DM+R (O10-10) - Body ground	O - Body ground	Outer mirror switch signal (Right or Down)	Ignition switch on, Left/ Right adjustment switch L side, Mirror switch OFF→ RIGHT or DOWN	Below 1 V → 10 to 14 V
HSSR (O10-13) - Body ground	L - Body ground	Horizontal direction position signal	Ignition switch on, Left/ Right adjustment switch L side, Mirror switch innermost position → outermost position	Below 1 V → 1 to 3 V
LP (O10-2) - Body ground	B-R - Body ground	Puddle light signal	Receive the door UNLOCK signal	10 to 14 V
CYL (O10-12) - CTYB (O10-4)	R-W - R	Front courtesy light LH signal	Each door CLOSED → OPEN	10 to 14 V

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

2. CHECK OUTER MIRROR CONTROL ECU RH



(a) Disconnect the O11 and O12 connectors.
(b) Measure the voltage and resistance according to the value(s) in the table below.

Voltage

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
SIG (O11-3) - Body ground	B-R - Body ground	Ignition power supply	Ignition switch OFF → ON	Below 1 V → 10 to 14 V
CPUB (O11-4) - Body ground	W-L - Body ground	+B power supply	Always	10 to 14 V
BDR (O11-6) - Body ground	R-L - Body ground	+B power supply	Always	10 to 14 V

Resistance

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
GND (O11-1) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω
MPX1 (O11-8) - Body ground	R-L - Body ground	Multiplex communication line	Always	10 kΩ or higher

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

(c) Reconnect the O11 and O12 connectors.
(d) Measure the voltage according to the value(s) in the table below.

Voltage

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
PMVR (O12-1) - Body ground	LG - Body ground	Outer mirror switch signal (Up or Right)	Ignition switch on, Left/ Right adjustment switch R side, Mirror switch OFF→ UP or Right	Below 1 V → 10 to 14 V
PVC (O12-5) - PE2 (O12-14)	Y - GR	Power source for mirror position sensor	Ignition switch OFF → ON	Below 1 V → 1 to 5 V
VSSR (O12-6) - Body ground	G - Body ground	Vertical direction position signal	Ignition switch on), Left/ Right adjustment switch R side, Mirror switch uppermost position → lowermost position	Below 1 V → 1 to 3V
PMHR (O12-9) - Body ground	P - Body ground	Outer mirror switch signal (Left or Down)	Ignition switch on, Left/ Right adjustment switch R side, Mirror switch OFF→ LEFT or DOWN	Below 1 V → 10 to 14 V
PM+R (O12-10) - Body ground	O - Body ground	Outer mirror switch signal (Right or Down)	Ignition switch on, Left/ Right adjustment switch R side, Mirror switch OFF→ RIGHT or DOWN	Below 1 V → 10 to 14 V
HSSR (O12-13) - Body ground	L - Body ground	Horizontal direction position signal	Ignition switch on, Left/ Right adjustment switch R side, Mirror switch innermost position → outermost position	Below 1 V → 1 to 3 V
LP (O12-2) - Body ground	B-R - Body ground	Puddle light signal	Receive the door UNLOCK signal	10 to 14 V
CYL (O12-12) - CTYB (O12-4)	R-G - R	Front courtesy light RH signal	Each door CLOSED → OPEN	10 to 14 V

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