

PROBLEM SYMPTOMS TABLE

HINT:

Use the table below to help determine the causes of the problem symptom. 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.

Front wiper and washer system

Symptom	Suspected area	See page
Front wiper and washer systems do not operate at all.	ALT, AM1, FR WIP-WSH fuse	-
	Windshield wiper switch assembly	WW-47
	Wire harness	-
Front wiper system does not operate.	Windshield wiper switch assembly	WW-47
	Front wiper motor assembly	WW-28
	Wire harness	-
Front washer system does not operate.	Windshield wiper switch assembly	WW-47
	Front washer motor assembly	WW-55
	Wire harness	-

Rear wiper and washer system

Symptom	Suspected area	See page
Rear wiper and washer systems do not operate at all.	Back window courtesy switch circuit	-
	Wiper and washer switch circuit	WW-16
Rear wiper system does not operate.	Wiper and washer switch circuit	WW-16
	Rear wiper motor circuit	WW-13
Rear washer system does not operate.	Wiper and washer switch circuit	WW-16
	Rear washer motor circuit	WW-21

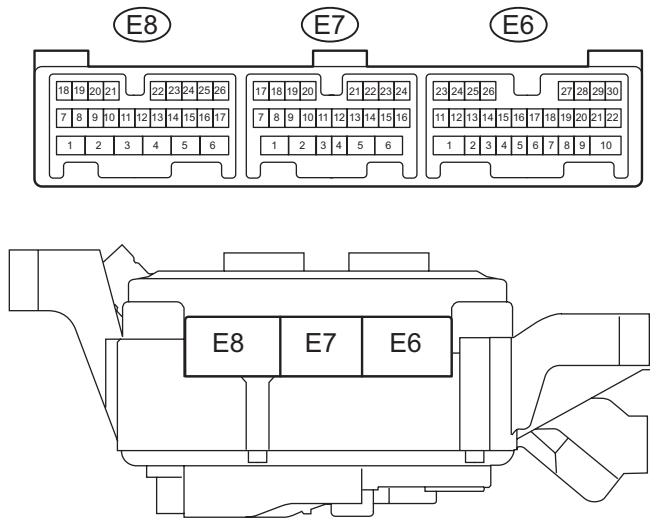


TERMINALS OF ECU

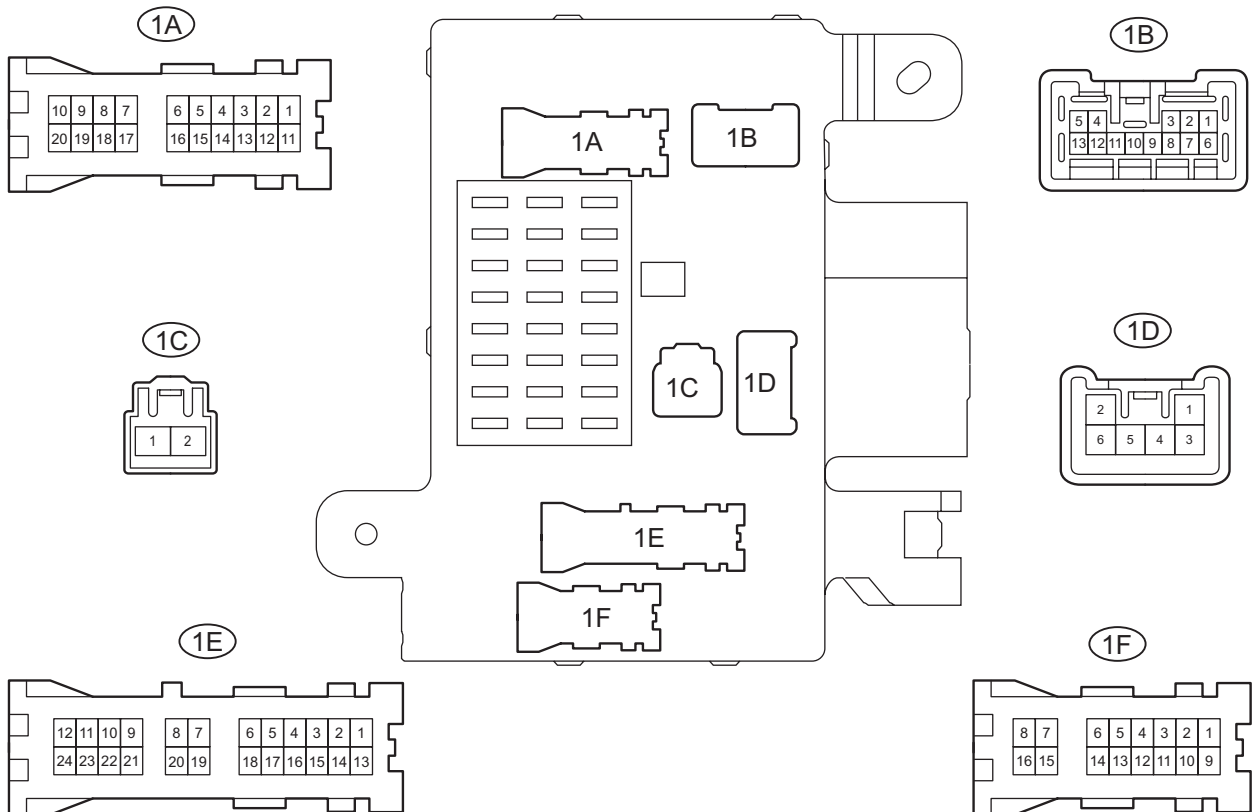
1. CHECK MAIN BODY ECU

Main Body ECU:

Left View:

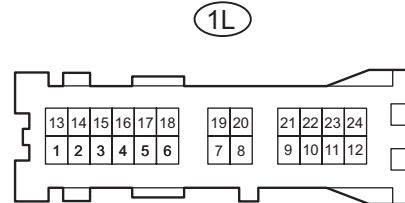
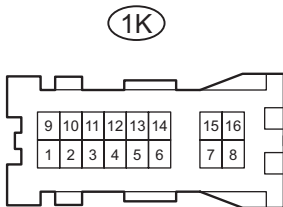
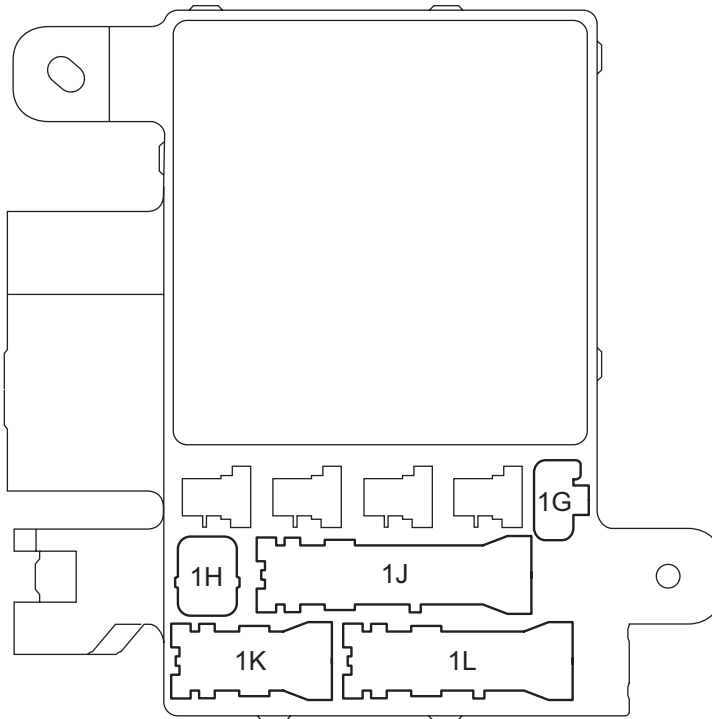
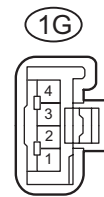
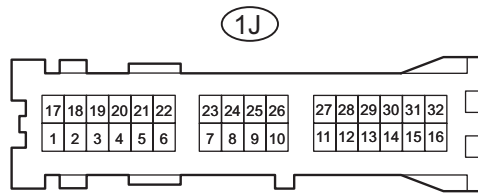
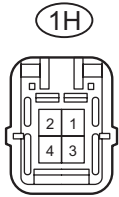


Rear View:



Main Body ECU:

Front View:



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(a) Disconnect the 1A, 1B, 1E, and 1H main body ECU connectors.

- (b) Measure the voltages and resistances of the wire harness side connectors.

Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
GND1 (1H-2) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω
BEUC (1B-4) - Body ground	W-R - Body ground	Power source circuit (From battery)	Always	11 to 14 V
BDR1 (1E-9) - Body ground	B-Y - Body ground	Power source circuit (From battery)	Always	11 to 14 V
GND1,2 (1H-2) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω

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

- (c) Reconnect the main body ECU connectors.
- (d) Measure the voltages of the wire harness side connectors.

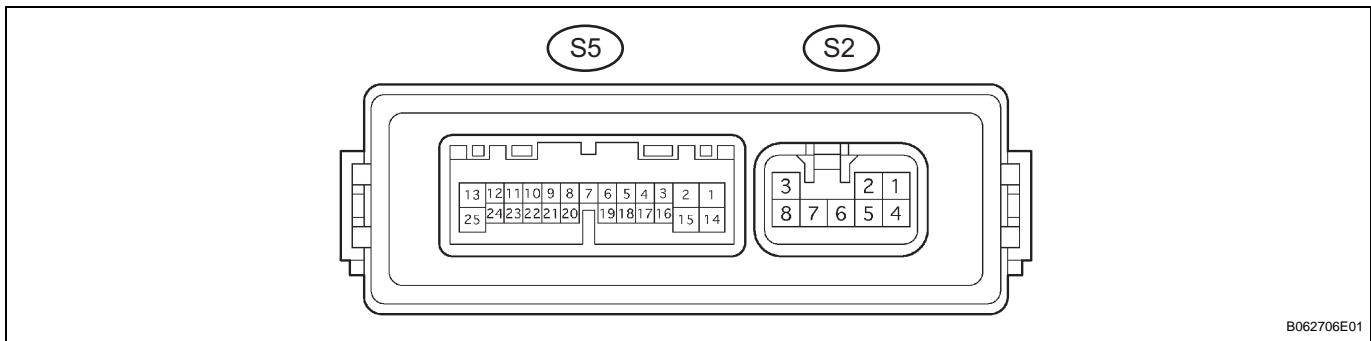
Standard voltage:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
WMTR (1B-1) - GND1,2 (1H-2)	B-O - W-B	Rear washer motor output	Rear washer motor OFF	Below 1 V
			Rear washer motor ON	10 to 14 V
SIG (1F-8) - GND1,2 (1H-2)	B-R - W-B	ECU power supply (from ignition switch)	Ignition switch OFF	Below 1 V
			Ignition switch ON	10 to 14 V
MPX2 (E6-23) - GND1, 2 (1H-2)	BR-R - W-B	Multiplex communication signal	Ignition switch ON	Signal waveform
WRIN (E8-9) - GND1, 2 (1H-2)	BR-W - W-B	Rear wiper switch signal	Ignition switch ON and rear wiper switch OFF	10 to 14 V
			Ignition switch ON and wiper switch LO	Below 1 V
WRLO (E8-10) - GND1, 2 (1H-2)	GR-R - W-B	Rear wiper switch signal	Ignition switch ON and rear wiper switch OFF	10 to 14 V
			Ignition switch ON and rear wiper switch HI	Below 1 V
RWSW (E7-1) - GND1, 2 (1H-2)	LG-B - W-B	Rear washer switch signal	Ignition switch ON and rear washer switch OFF	10 to 14 V
			Ignition switch ON and rear washer switch ON	Below 1 V



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

2. CHECK BACK DOOR ECU



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

- (a) Disconnect the S2 back door ECU connector.

- (b) Measure the voltages and resistances of the wire harness side connectors.

Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
BECU (S2-5) - Body ground	W-R - Body ground	Power source circuit (From battery)	Always	11 to 14 V
GND (S2-3) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω

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

- (c) Reconnect the back door ECU connector.
- (d) Measure the voltages of the wire harness side connectors.

Standard voltage:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
BDR (S2-4) - GND (S2-3)	L-O - W-B	Power supply (from battery)	Always	11 to 14 V
SIG (S2-6) - GND (S2-3)	B-R - W-B	ECU power supply (from ignition switch)	Ignition switch OFF	Below 1 V
			Ignition switch ON	11 to 14 V
WIP- (S5-1) - GND (S2-3)	R-G - W-B	Rear wiper motor output	Ignition switch ON and wiper switch LO or HI	Pulse generation
WIP+ (S5-2) - GND (S2-3)	Y-G - W-B	Rear wiper motor output	Ignition switch ON and wiper switch LO or HI	Pulse generation
W (S5-3) - GND (S2-3)	BR-B - W-B	Rear wiper reverse position switch signal	Ignition switch ON	Pulse generation
P (S5-12) - E (S2-19)	P-B - V-G	Rear wiper housing position switch signal	Ignition switch ON	Below 1 V
GCTY (S5-10) - GND (S2-3)	B-O - W-B	Back window door courtesy switch signal	Back window door closed	11 to 14 V
			Back window door open	Below 1 V
MPX2 (S2-1) - GND (S2-3)	BR-R - W-B	Multiplex communication signal circuit	During communication	Signal waveform

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

