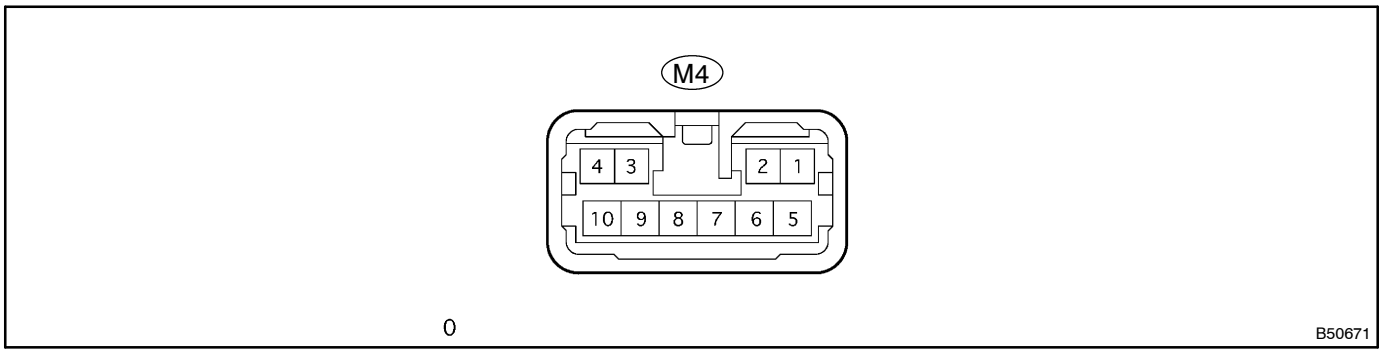
TERMINALS OF ECU

054G6–02

1. CHECK SLIDING ROOF DRIVE GEAR ASSY (SLIDING ROOF ECU)



(a) Disconnect the M4 ECU connector.

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

Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
B (M4–5) – E (M4–7)	L – W–B (LHD) B – W–B (RHD)	+B power supply	Constant	10 to 14 V
IG (M4–8) – E (M4–7)	LG–R – W–B	Ignition power supply	Ignition switch OFF → ON	0 V → 10 to 14 V
OPN (M4–9) – E (M4–7)	G–B – W–B	Sliding roof motor open	Slide switch (OPEN) OFF → ON	10 kΩ or higher → Below 1 Ω
CLS (M4–10) – E (M4–7)	G–Y – W–B	Sliding roof motor close	Slide switch (CLOSE) OFF → ON	10 kΩ or higher → Below 1 Ω
UP (M4–4) – E (M4–7)	R–Y – W–B	Sliding roof motor up	Tilt switch (UP) OFF → ON	10 kΩ or higher → Below 1 Ω
DWN (M4–3) – E (M4–7)	R–B – W–B	Sliding roof motor down	Tilt switch (DOWN) OFF → ON	10 kΩ or higher → Below 1 Ω
E (M4–7) – Body ground	W–B – Body ground	Ground	Constant	Below 1 Ω

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

(c) Reconnect the M4 ECU connector.

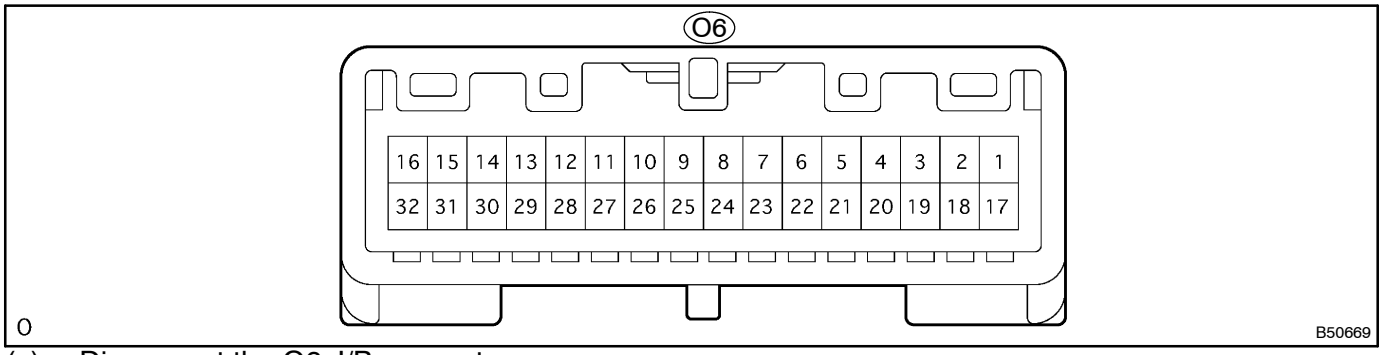
(d) Measure the voltage of each terminal of the connector.

Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
OPN (M4–9) – E (M4–7)	G–B – W–B	Sliding roof motor open output	Slide switch (OPEN) OFF → ON	10 to 14 V → 0 V
CLS (M4–10) – E (M4–7)	G–Y – W–B	Sliding roof motor close output	Slide switch (CLOSE) OFF → ON	10 to 14 V → 0 V
UP (M4–4) – E (M4–7)	R–Y – W–B	Sliding roof motor up output	Tilt switch (UP) OFF → ON	10 to 14 V → 0 V
DWN (M4–3) – E (M4–7)	R–B – W–B	Sliding roof motor down output	Tilt switch (DOWN) OFF → ON	10 to 14 V → 0 V

If the result is not as specified, the sliding roof ECU may have a malfunction.

2. CHECK OVERHEAD J/B



(a) Disconnect the O6 J/B connector.

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

Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
O6–1(GND) – Body ground	W–B – Body ground	Ground	Constant	Below 1 Ω
O6–26(IG) – O6–1(GND)	LG–R – W–B	Ignition power supply	Ignition switch OFF → ON	0 V → 10 to 14 V
O6–10(OPN) – O6–1(GND)	G–B – W–B	Sliding roof motor open	Sliding switch (OPEN) OFF → ON	10 kΩ or higher → Below 1 Ω
O6–11(CLS) – O6–1(GND)	G–Y – W–B	Sliding roof motor close	Sliding switch (CLOSE) OFF → ON	10 kΩ or higher → Below 1 Ω
O6–24(DOWN) – O6–1(GND)	R–B – W–B	Sliding roof motor down	Tilt switch (DOWN) OFF → ON	10 kΩ or higher → Below 1 Ω
O6–25(UP) – O6–1(GND)	R–Y – W–B	Sliding roof motor up	Tilt switch (UP) OFF → ON	10 kΩ or higher → Below 1 Ω

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

(c) Reconnect the the O6 J/B connector.

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

Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
O6–27(IG3) – O6–1(GND)	LG–R – W–B	Ignition power supply for sliding roof ECU	Ignition switch OFF → ON	0V → 10 to 14 V
O6–10(OPN) – O6–1(GND)	G–B – W–B	Sliding roof motor open	Ignition switch ON: Sliding switch (OPEN) OFF→ ON	10 to 14 V → 0 V
O6–11(CLS) – O6–1(GND)	G–Y – W–B	Sliding roof motor close	Ignition switch ON: Sliding switch (CLOSE) OFF→ ON	10 to 14 V → 0 V
O6–25(UP) – O6–1(GND)	R–Y – W–B	Sliding roof motor up	Ignition switch ON: Tilt switch (UP) OFF→ ON	10 to 14 V → 0 V
O6–24(DOWN) – O6–1(GND)	R–B – W–B	Sliding roof motor down	Ignition switch ON: Tilt switch (DOWN) OFF→ ON	10 to 14 V → 0 V

If the result is not as specified, the overhead J/B may have a malfunction.