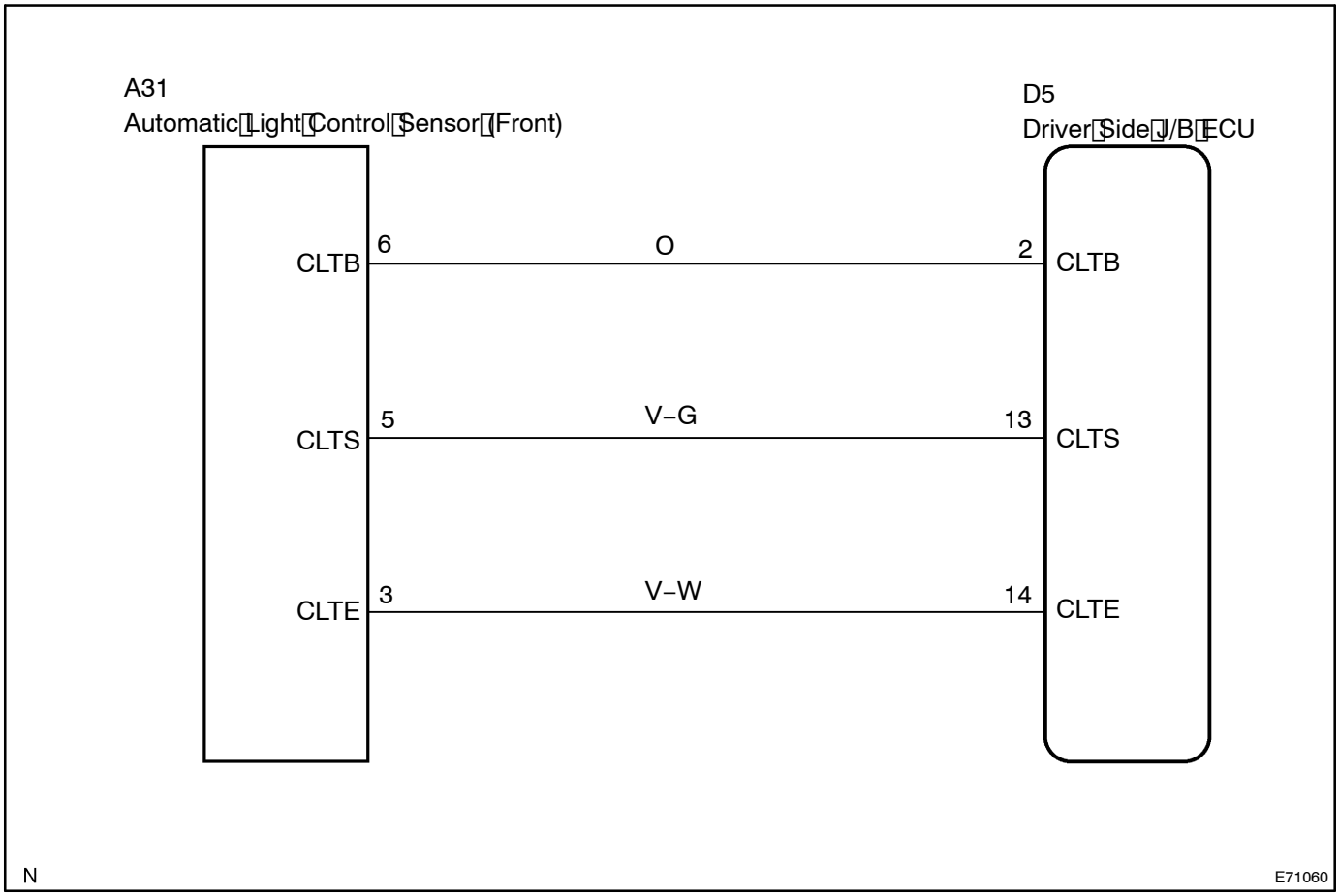
AUTOMATIC LIGHT CONTROL SENSOR CIRCUIT

CIRCUIT DESCRIPTION

The multiplex network body ECU receives signals from the automatic light control sensor.
HINT:
The DTC code is output when a malfunction of the automatic light control sensor or an open or short in the automatic light control sensor circuit occurs (see page 05–1405).

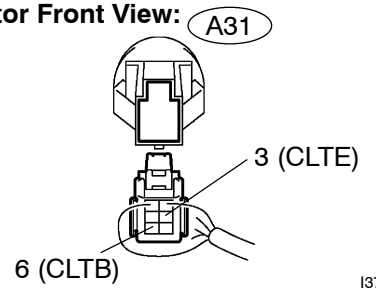
WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK HARNESS AND CONNECTOR(AUTOMATIC LIGHT CONTROL SENSOR POWER SOURCE CIRCUIT)

Automatic Light Control Sensor Connector Front View:



(a) Disconnect the automatic light control sensor connector.
(b) Measure the voltage according to the value(s) in table below.

Standard:

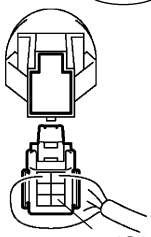
Tester Connection	Condition	Specified Condition
A31–3 – A31–6	Ignition switch ON	10 to 14 V

NG → **Go to step 4**

OK

2	CHECK HARNESS AND CONNECTOR(DRIVER SIDE JUNCTION BLOCK – AUTOMATIC LIGHT CONTROL SENSOR)

Automatic Light Control Sensor Connector Front View: A31



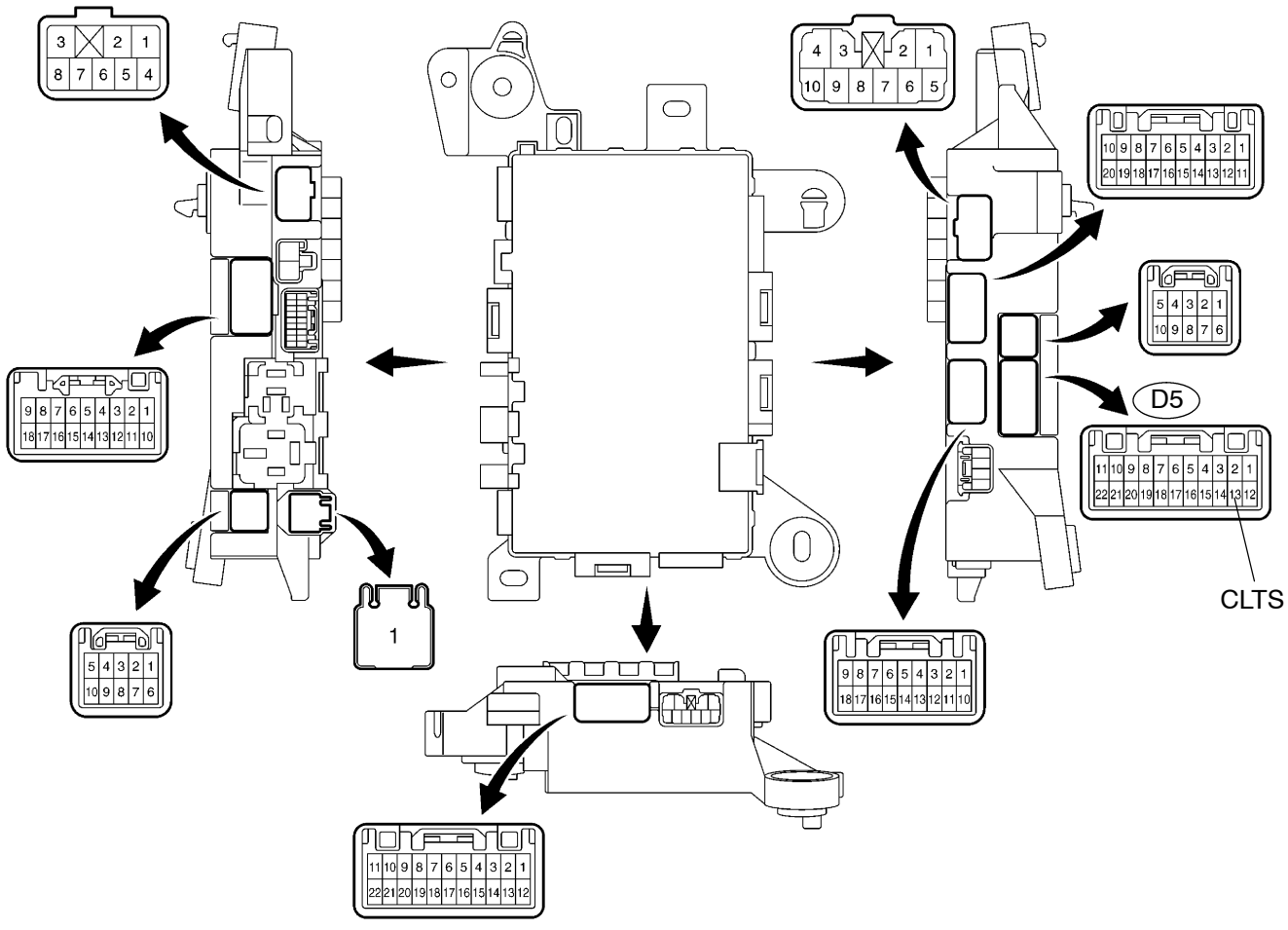
(a) Disconnect the D5 connector from the driver side junction block.

(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Condition	Specified Condition
A31–5 – D5–13	Always	Below 1 Ω

Driver Side Junction Block Connector Front View:



HINT:

This illustration is for RHD model. The RHD and LHD models are symmetrical.

NG	REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

3	REPLACE AUTOMATIC LIGHT CONTROL SENSOR

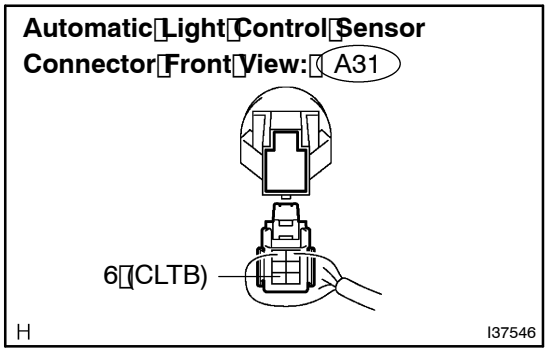
OK: Returns to normal operation.

NG → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–1369)**

OK

END

4	CHECK HARNESS AND CONNECTOR(DRIVER SIDE JUNCTION BLOCK – AUTOMATIC LIGHT CONTROL SENSOR)



(a) Measure the voltage according to the value(s) in the table below.

Standard:

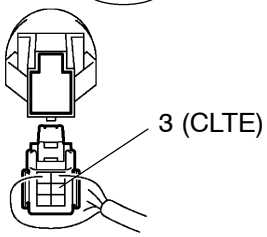
Tester Connection	Condition	Specified Condition
A31–6 – Body ground	Ignition switch ON	10 to 14 V

NG → **Go to step 6**

OK

5	**CHECK HARNESS AND CONNECTOR(DRIVER SIDE JUNCTION BLOCK – AUTOMATIC LIGHT CONTROL SENSOR)**

Automatic Light Control Sensor Connector Front View: A31



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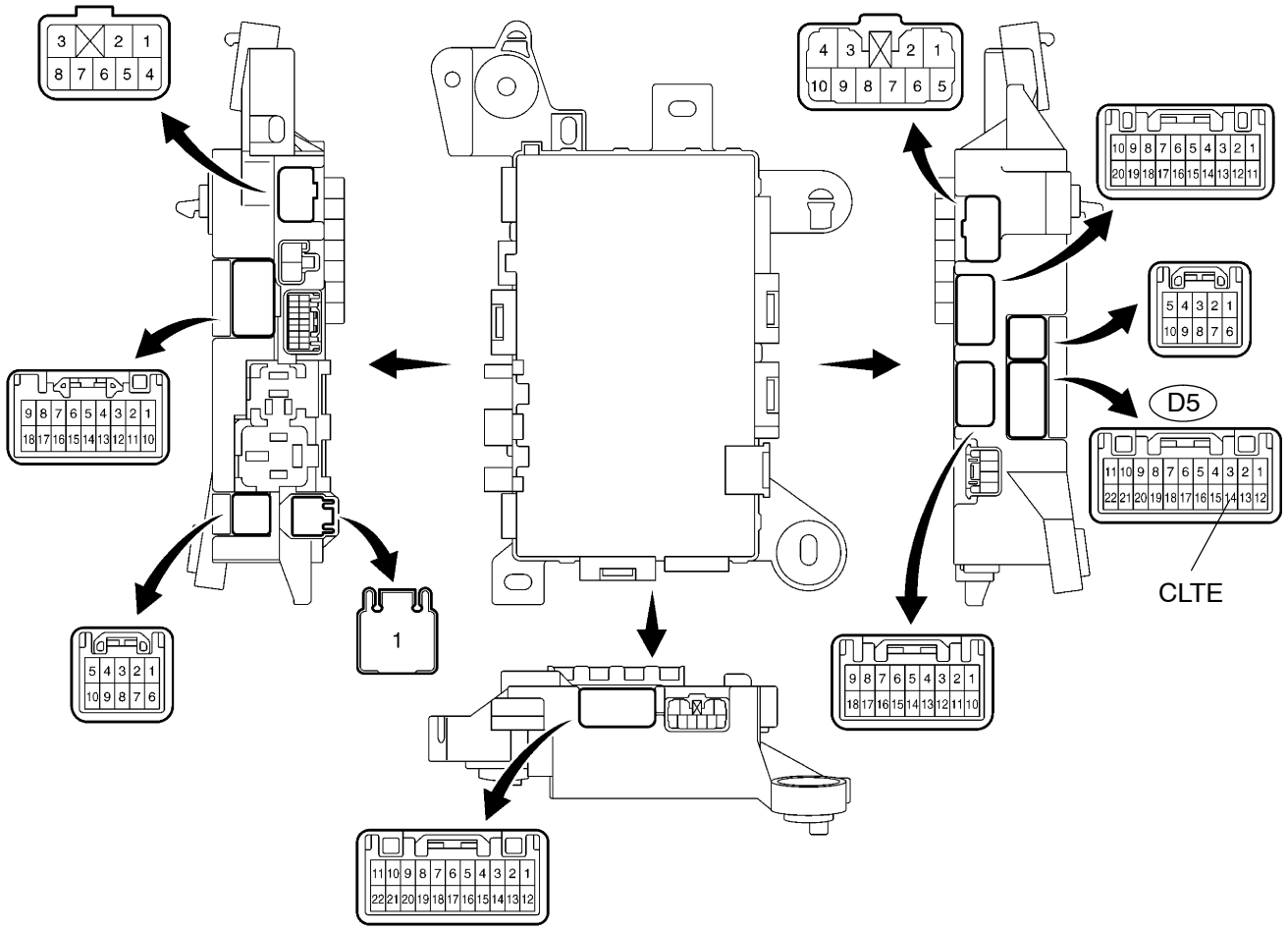
(a) Disconnect the D5 connector from the driver side junction block assy.

(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Condition	Specified Condition
A31–3 – D5–14	Always	Below 1 Ω

Driver Side Junction Block Connector Front View:



HINT:
This illustration is for RHD model. The RHD and LHD models are symmetrical.

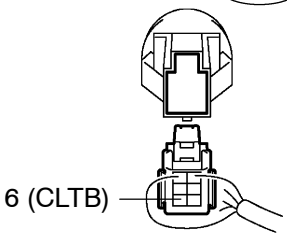
NG	REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–1369)

6	**CHECK HARNESS AND CONNECTOR(DRIVER SIDE JUNCTION BLOCK – AUTOMATIC LIGHT CONTROL SENSOR)**

Automatic Light Control Sensor
Connector Front View: A31



H I37546

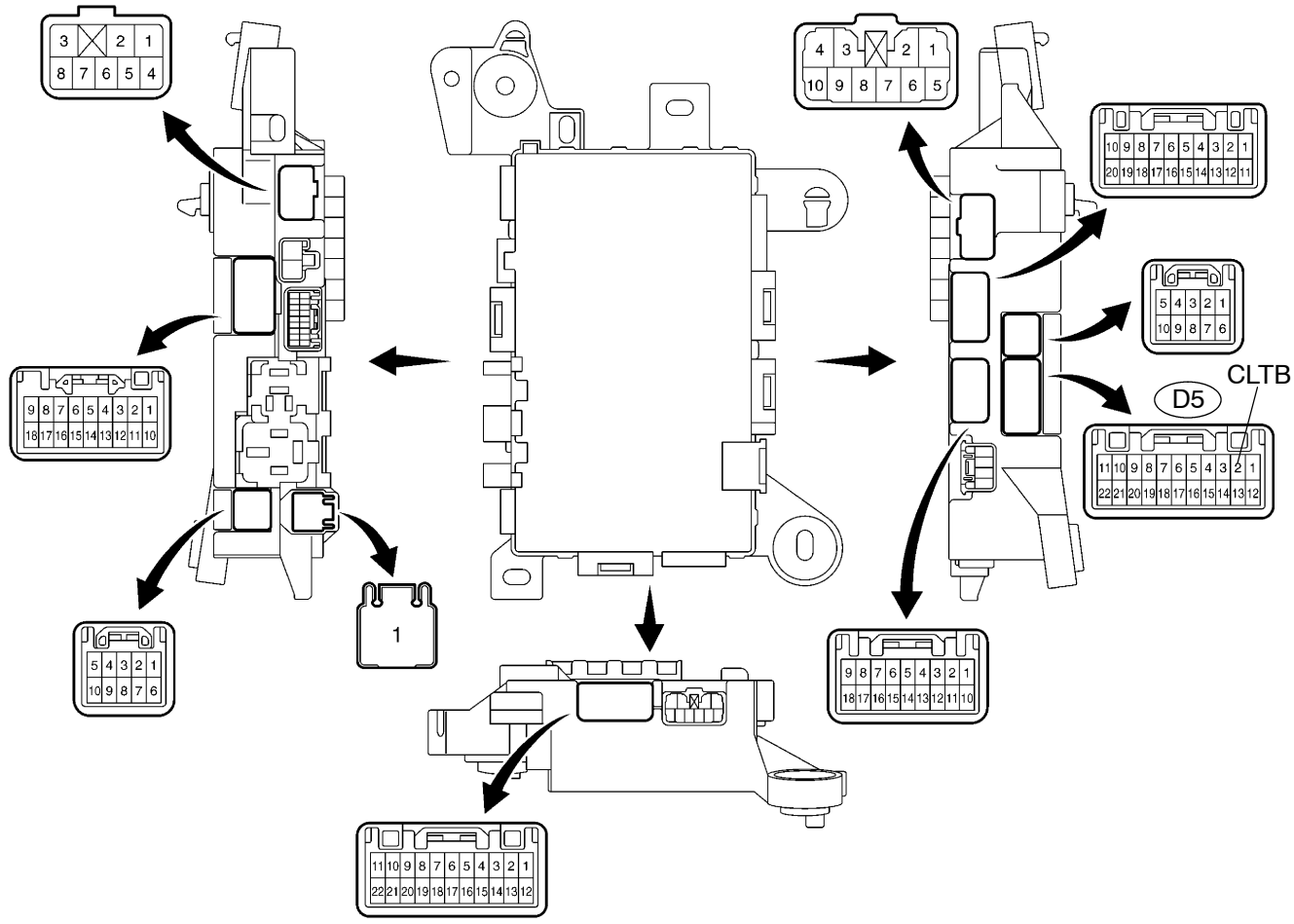
(a) Disconnect the D5 connector from the driver side junction block assy.

(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Condition	Specified Condition
A31–6 – D5–2	Always	Below 1 Ω

Driver Side Junction Block Connector Front View:



HINT:
This illustration is for RHD model. The RHD and LHD models are symmetrical.

NG	REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–1369)