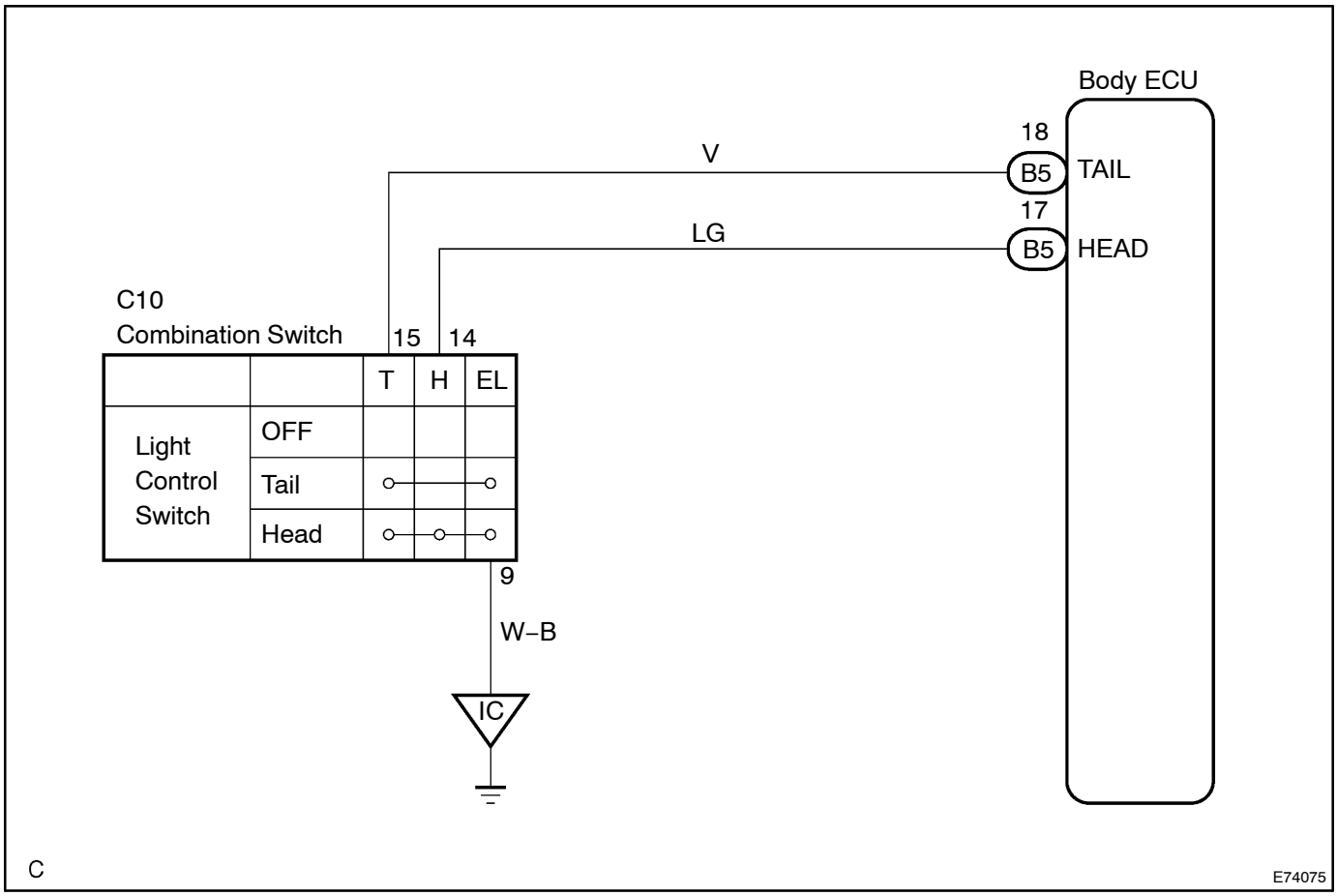
DTC B1241 BODY ECU SWITCH CIRCUIT DIAGNOSIS

CIRCUIT DESCRIPTION

The following explains when this DTC is output:
This DTC is not output when the switches are operated but fail to make contact. It is only output when the switches are stuck or held on. For example, this code is output when checking the DTC while the switches are on:
System is normal:
(a) DTC is output during DTC check with the switches on.
(b) DTC is not output during DTC check with the switches off.
Inspect the switches and replace if necessary. If there is no problem with the switches, inspect the wire harness.

DTC No.	DTC Detecting Condition	Trouble Area
B1241	Switch is stuck	• Headlamp dimmer switch assy • Wire harness or connector • Multiplex network body ECU

WIRING DIAGRAM



1	READ VALUE OF INTELLIGENT TESTER II

(a) Connect the intelligent tester II to the DLC3.
(b) Turn the ignition switch to the ON position and turn the intelligent tester II main switch on.
(c) Select the item below in the DATA LIST and read the display on intelligent tester II.

BODY NO.1 (MULTIPLEX NETWORK BODY ECU):

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
Head Light SW (Head)	Headlight control SW signal/ON or OFF	ON: Light control switch is in HEAD position OFF: Light control switch is in any position except HEAD	–
Head Light SW (Tail)	Tail light SW signal/ ON or OFF	ON: Light control switch is in TAIL position OFF: Light control switch is in any position except TAIL	–

OK: Condition sign can be displayed.

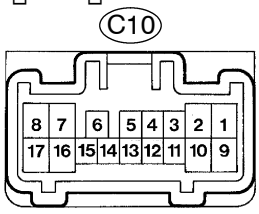
NG → **Go to step 2**

OK

REPLACE MULTIPLEX NETWORK BODY ECU

2	INSPECT HEADLAMP DIMMER SWITCH ASSY

Connector Front View:



E11948

(a) Inspect light control switch.
(1) Measure the resistance according to the value(s) in the table below.

Standard:

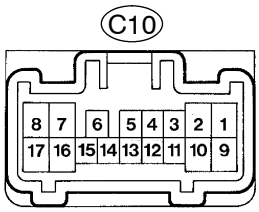
Tester connection	Condition	Specified condition
9 – 14	TAIL	Below 1 Ω
9 – 14 9 – 15	HEAD	Below 1 Ω

NG → **REPLACE HEADLAMP DIMMER SWITCH ASSY (SEE PAGE 65–25)**

OK

3	CHECK HARNESS AND CONNECTOR(HEADLAMP DIMMER SWITCH ASSY – MULTIPLEX NETEORK BODY ECU)

Connector Front View:



E11948

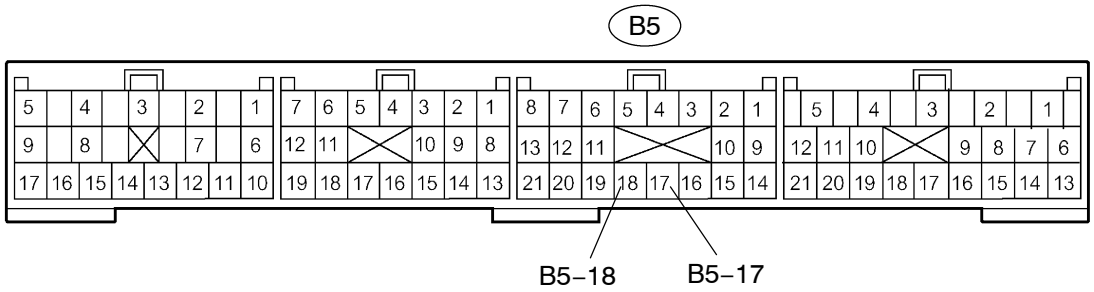
(a) Disconnect the headlamp dimmer switch assy connector and B5 connector from the multiplex network body ECU.

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

Standard:

Tester connection	Condition	Specified condition
C10–14 – B5–17	Always	Below 1 Ω
C10–15 – B5–18	Always	Below 1 Ω
B5–17 – Body ground	Always	10 kΩ or higher
B5–18 – Body ground	Always	10 kΩ or higher
C10–9 – Body ground	Always	Below 1 Ω

Multiplex Network Body ECU
Connector Front View:



H

E74263

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

REPLACE MULTIPLEX NETWORK BODY ECU