DTC	B2417	HEADLIGHT BEAM LEVEL CONTROL MOTOR LH MALFUNCTION

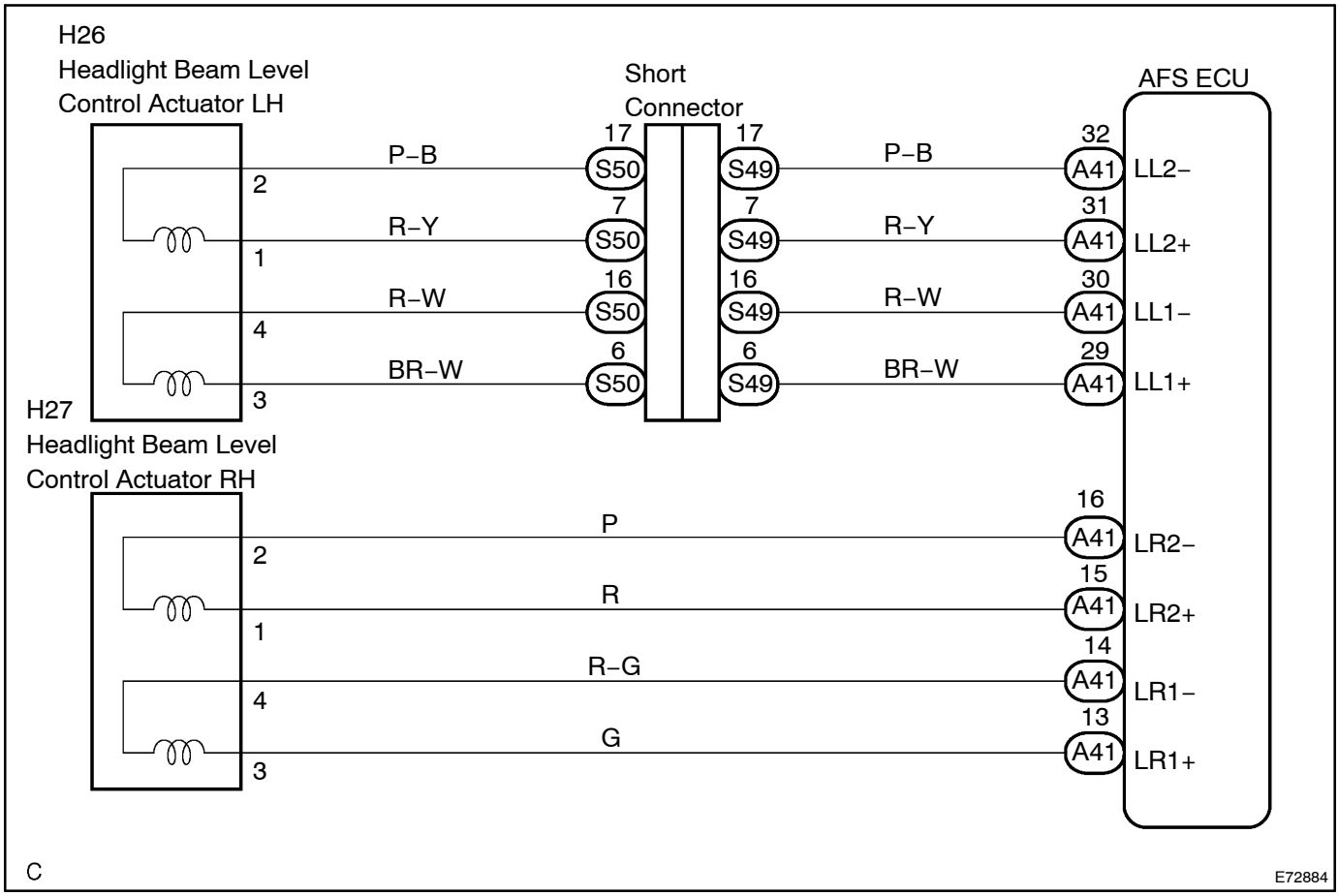
DTC	B2418	HEADLIGHT BEAM LEVEL CONTROL MOTOR RH MALFUNCTION

CIRCUIT DESCRIPTION

The leveling actuator receives the signal from the AFS ECU to operate. The AFS ECU receives signals regarding the operating conditions of the leveling actuator.

DTC No.	DTC Detecting Condition	Trouble Area
B2417	• Malfunction of headlamp beam level control motor LH • Open or short of headlamp beam level control motor LH circuit	• Headlamp beam level control motor LH • Wire harness or connector • AFS ECU
B2418	• Malfunction of headlamp beam level control motor RH • Open or short of headlamp beam level control motor RH circuit	• Headlamp beam level control motor RH • Wire harness or connector • AFS ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

1	PERFORM ACTIVE TEST ON INTELLIGENT TESTER II

(a) Connect the intelligent tester II to the DLC3.
(b) Turn the ignition switch to ON position and turn the intelligent tester II main switch on.
(c) Select the item below in the ACTIVE TEST and then check the motor operation.

AFS (AFS ECU):

Item	Test Details	Diagnostic Note
Drive The Leveling Motor	Drive the leveling motor UP/DOWN	–

OK: Headlamp beam level control actuator is operated.

Result:

OK (When checking from the PROBLEM SYMPTOMS TABLE)	A
OK (When checking from the DIAGNOSTIC TROUBLE CODE CHART)	B
NG	C

B → **REPLACE AFS ECU (SEE PAGE 65–28 OR 65–29)**

C → **Go to step 2**

A

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

2	**CHECK HARNESS AND CONNECTOR(HEADLIGHT BEAM LEVEL CONTROL MOTOR – AFS ECU)**

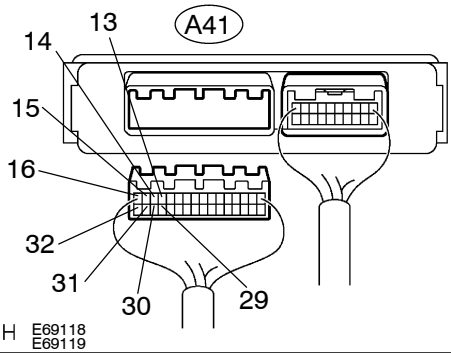
Wire Harness View:

H26 Headlamp Beam Level Control Actuator LH

H27 Headlamp Beam Level Control Actuator RH

AFS ECU

Connector Front View:



H E69118 E69119

E69148

(a) Disconnect the headlamp assy connector on the headlamp beam level control motor side and A41 connector from the AFS ECU.

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

Standard:

LH Side (B2417):

Tester Connection	Condition	Specified Condition
A41–29 – H26–3	Always	Below 1 Ω
A41–30 – H26–4	Always	Below 1 Ω
A41–31 – H26–1	Always	Below 1 Ω
A41–32 – H26–2	Always	Below 1 Ω
A41–29 – Body ground	Always	10 kΩ or higher
A41–30 – Body ground	Always	10 kΩ or higher
A41–31 – Body ground	Always	10 kΩ or higher
A41–32 – Body ground	Always	10 kΩ or higher

RH Side (B2418):

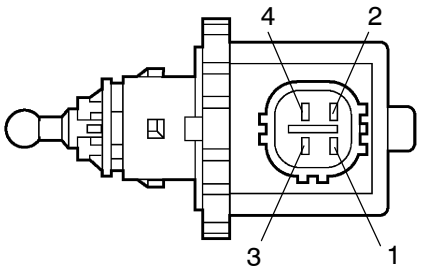
Tester Connection	Condition	Specified Condition
A41–13 – H27–3	Always	Below 1 Ω
A41–14 – H27–4	Always	Below 1 Ω
A41–15 – H27–1	Always	Below 1 Ω
A41–16 – H27–2	Always	Below 1 Ω
A41–13 – Body ground	Always	10 kΩ or higher
A41–14 – Body ground	Always	10 kΩ or higher
A41–15 – Body ground	Always	10 kΩ or higher
A41–16 – Body ground	Always	10 kΩ or higher

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

OK

3	INSPECT HEADLIGHT BEAM LEVEL CONTROL MOTOR

Connector Front View:



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

Standard:

LH Side (B2417):

Tester connection	Condition	Specified condition
H26–1 – H26–2	Always	5.8 to 12.5 Ω
H26–3 – H26–4	Always	5.8 to 12.5 Ω

RH Side (B2418):

Tester connection	Condition	Specified condition
H27–1 – H27–2	Always	5.8 to 12.5 Ω
H27–3 – H27–4	Always	5.8 to 12.5 Ω

Result:

OK (When checking from the DIAGNOSTIC TROUBLE CODE CHART)	A
OK (When checking from the PROBLEM SYMPTOMS TABLE)	B
NG	C

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

C → **REPLACE HEADLAMP ASSY (SEE PAGE 65–9)**

A

REPLACE AFS ECU (SEE PAGE 65–28 OR 65–29)