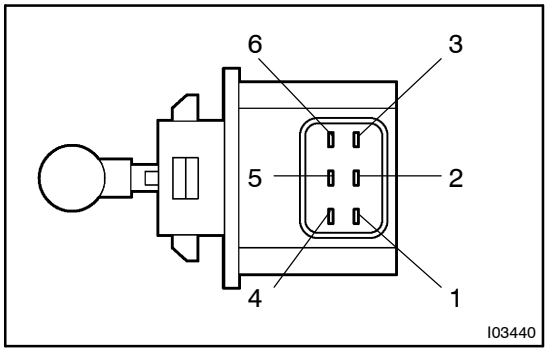
BE0MV–01



INSPECTION

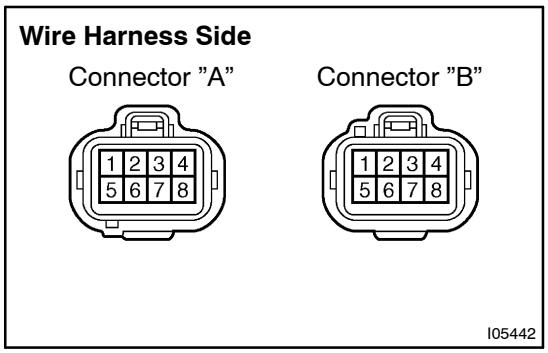
1. HID Type Headlight:
INSPECT HEADLIGHT BEAM LEVEL CONTROL ACTUATOR RESISTANCE

(a) Check that continuity exists between terminals 2 and 5.

(b) Check that resistance exists between terminals, as shown in the chart.

Terminal	Resistance (Ω)
2 – 1	26 – 30
2 – 3	26 – 30
2 – 4	26 – 30
2 – 6	26 – 30
5 – 1	26 – 30
5 – 3	26 – 30
5 – 4	26 – 30
5 – 6	26 – 30

If resistance value is not as specified, replace the actuator.

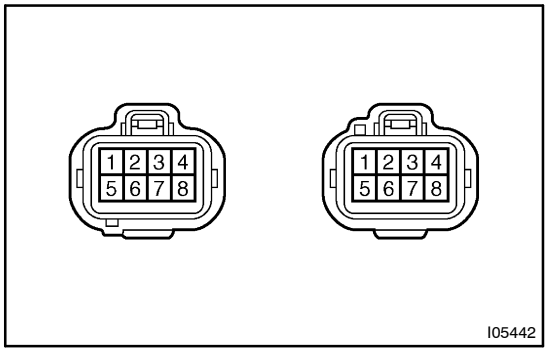


2. HID Type Headlight:
INSPECT HEADLIGHT BEAM LEVEL CONTROL ECU CIRCUIT
Connector disconnected:

Disconnect the connector from the ECU and inspect the connector on the wire harness side, as shown.

Tester connection	Condition	Specified condition
A1 – A5	Ignition switch OFF	26 – 30 Ω
A1 – A6	Ignition switch OFF	26 – 30 Ω
A1 – A7	Ignition switch OFF	26 – 30 Ω
A1 – A8	Ignition switch OFF	26 – 30 Ω
A4 – B4	Ignition switch ON and light control switch HEAD	Below 1.5 V
B1 – B3	Ignition switch OFF	3.5 – 6.5 kΩ
B5 – B7	Ignition switch OFF	3.5 – 6.5 kΩ
A4 – Ground	Ignition switch OFF	Continuity

If circuit is not as specified, perform the inspection on the following pages.



3. HID Type Headlight:
INSPECT HEADLIGHT BEAM LEVEL CONTROL ECU CIRCUIT
Connector connected:

Connect the connector from the ECU and inspect the connector, as shown in the table.

Tester connection	Condition	Specified condition
A1 – A4	Ignition switch ON	Battery positive voltage
A1 – A5	Ignition switch ON, when stopping and bouncing the vehicle.	Pulse generation
A1 – A6	Ignition switch ON, when stopping and bouncing the vehicle.	Pulse generation
A1 – A7	Ignition switch ON, when stopping and bouncing the vehicle.	Pulse generation
A1 – A8	Ignition switch ON, when stopping and bouncing the vehicle.	Pulse generation
B2 – B3	Ignition switch ON	Approx. 2.5 V
B6 – B7	Ignition switch ON	Approx. 2.5 V
B1 – B3 B5 – B7	Ignition switch ON	5 V

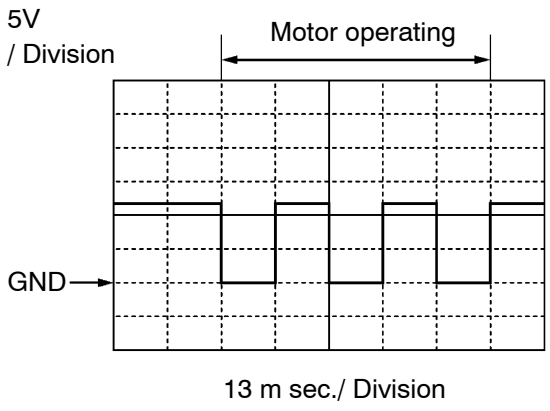
If the circuit is not as specified, replace the ECU.

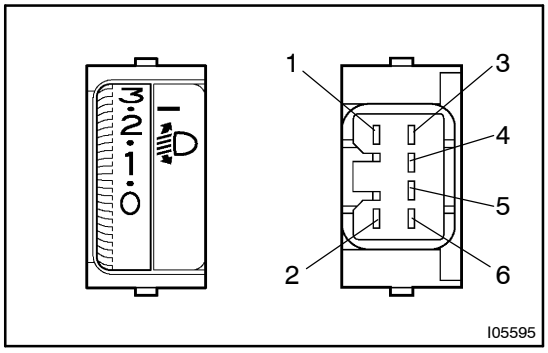
Reference INSPECTION USING OSCILLOSCOPE

HINT:

The correct waveform is as shown in the illustration.

Pulse generation



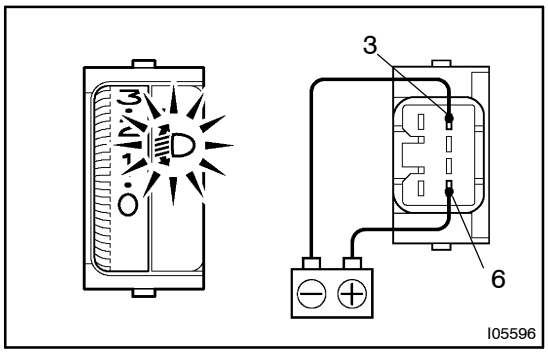


4. Europe Halogen Type Headlight: INSPECT HEADLIGHT BEAM LEVEL CONTROL SWITCH RESISTANCE

Measure the resistance between terminals 1 and 2.

Switch position	Resistance (kΩ)
0	1.4 – 1.6
1	1.6 – 1.8
2	1.8 – 2.0
3	2.0 – 2.3
4	2.4 – 2.7
5	2.8 – 3.2

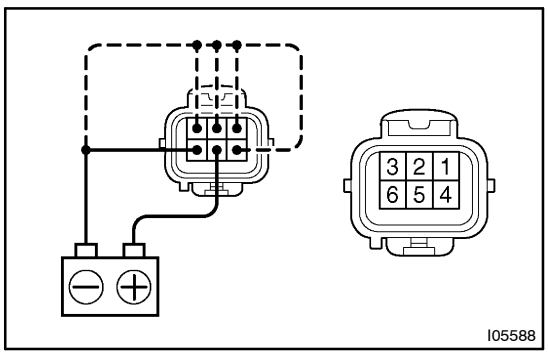
If resistance value is not as specified, replace the switch.



5. Europe Halogen Type Headlight: INSPECT HEADLIGHT BEAM LEVEL CONTROL SWITCH ILLUMINATION

Connect the positive (+) lead from the battery to terminal 6 and negative (–) lead to terminal 3 and check that the illumination light lights up.

If operation is not as specified, replace the switch.



6. Europe Halogen Type Headlight: INSPECT HEADLIGHT BEAM LEVEL CONTROL ACTUATOR CIRCUIT

(a) Connect the positive (+) lead from the battery to terminal 5 and the negative (–) lead to terminal 6.

(b) Ground each terminal and check that each mode operates, as shown in the chart and illustration.

Terminal	Resistance (Ω)
1 – Ground	”0”
2 – Ground	”1”
3 – Ground	”2”
4 – Ground	”3”

If operation is not as specified, replace the actuator.