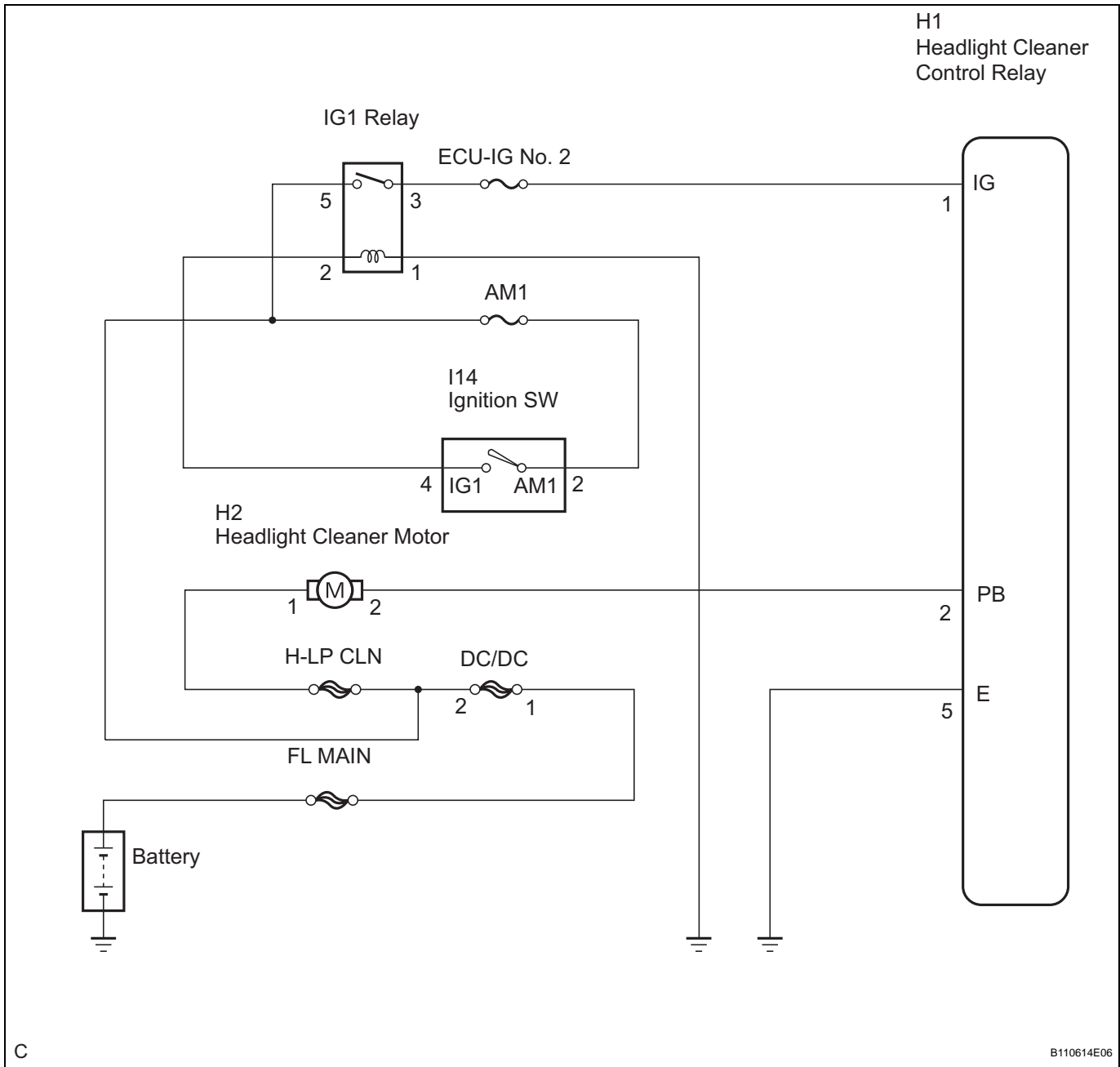


## Headlight Cleaner Motor and Relay Circuit

### DESCRIPTION

This circuit provides the headlight cleaner control relay with the power circuit. The headlight cleaner control relay sends the signal to operate from the switch, etc, to the headlight cleaner motor and pump assembly.

### WIRING DIAGRAM



C

B110614E06

### 1 INSPECT FUSE

(a) Inspect the H-LP CLN, AM1, ECU-IG No. 2 and INP-J/B fuses.

- (1) Measure the resistance between each terminal.

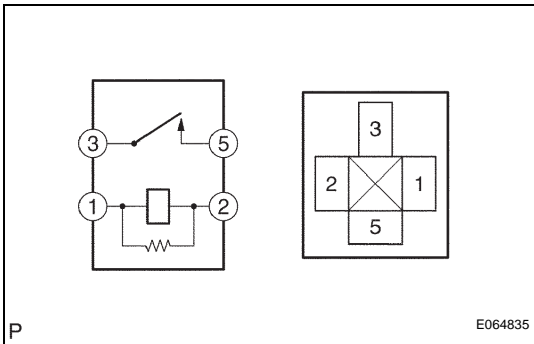
**Standard resistance:**

**Below 1 Ω**

**NG** **CHECK FOR SHORT IN ALL HARNESS AND COMPONENTS CONNECTED FAILURE FUSE**

**OK**

**2 INSPECT RELAY**



- (a) Inspect IG1 relay continuity.

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

**Standard resistance**

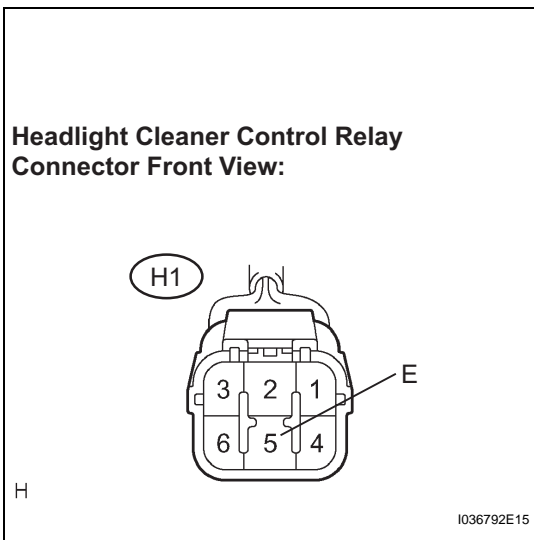
| Terminal No. | Specified Condition  |
|--------------|--|
| 3 - 5        | 10 kΩ or higher  |
|              | Below 1 Ω<br>(When battery voltage is applied to terminal 1 and 2) |

**NG** **REPLACE RELAY**

**OK**



**3 CHECK HARNESS AND CONNECTOR (HEADLIGHT CLEANER CONTROL RELAY - BODY GROUND)**



- (a) Disconnect the connector from the headlight cleaner relay.

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

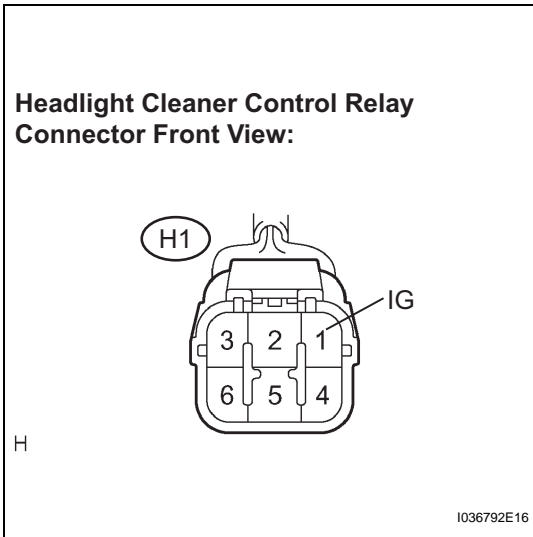
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|-------------------|-----------|---------------------|
| E - Body ground   | Always    | Below 1 Ω           |

**NG** **REPAIR OR REPLACE HARNESS AND CONNECTOR**

**OK**

**4 INSPECT HEADLIGHT CLEANER CONTROL RELAY (POWER SOURCE CIRCUIT)**



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

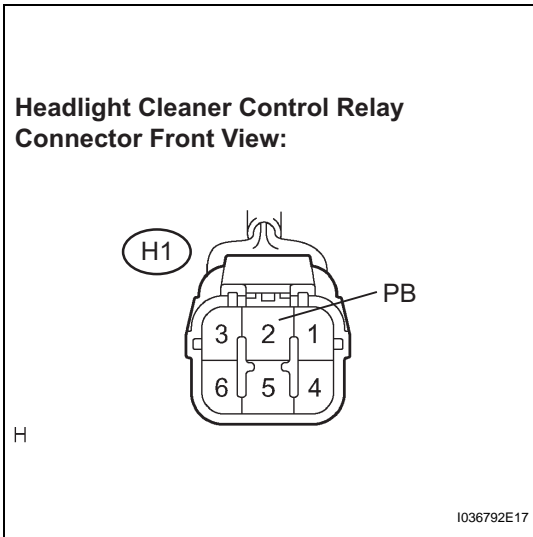
**Standard voltage**

| Tester Connection | Condition                | Specified Condition    |
|-------------------|--------------------------|------------------------|
| IG - Body ground  | Ignition switch OFF → ON | Below 1 V → 10 to 14 V |

**NG** → **Go to step 6**

**OK**

**5 INSPECT HEADLIGHT CLEANER CONTROL RELAY**



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

**Standard voltage**

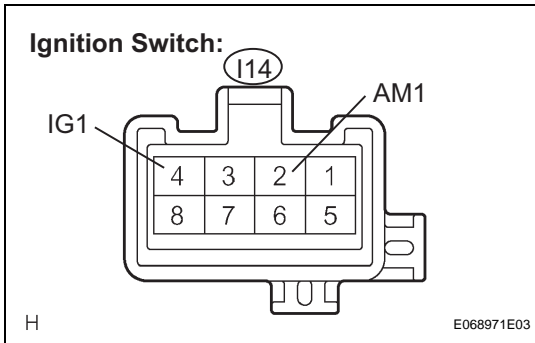
| Tester Connection | Condition          | Specified Condition |
|-------------------|--------------------|---------------------|
| PB - Body ground  | Ignition switch ON | 10 to 14 V          |

**NG** → **Go to step 7**

**OK**

**PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

**6 INSPECT IGNITION SWITCH**



- (a) Disconnect the connector from the ignition switch.
- (b) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

| Tester Connection | Condition                | Specified Condition         |
|-------------------|--------------------------|-----------------------------|
| AM1 - IG1         | Ignition switch OFF → ON | 10 kΩ or higher → Below 1 Ω |

**NG** → **REPLACE IGNITION SWITCH**

**OK**

**REPAIR OR REPLACE HARNESS AND CONNECTOR**

**7 INSPECT WINDSHIELD WASHER MOTOR AND PUMP ASSEMBLY**

- (a) Inspect the windshield washer motor and pump assembly.

**NG** → **REPLACE WINDSHIELD WASHER MOTOR AND PUMP ASSEMBLY**

**OK**

**REPAIR OR REPLACE HARNESS AND CONNECTOR**