

HEADLIGHT CLEANER MOTOR AND RELAY CIRCUIT

CIRCUIT DESCRIPTION

This circuit provides the headlamp cleaner control relay with the power circuit.

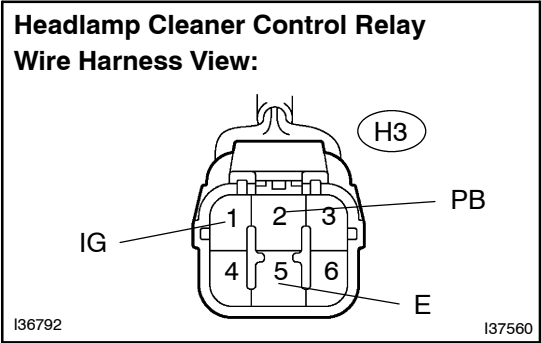
The headlamp cleaner control relay sends the signal to operate from the switch, etc. to the headlamp cleaner motor and pump assy.

The diagram illustrates the wiring for the H3 Headlamp Cleaner Control Relay. It shows the following components and connections:

- Battery:** Connected to the ground and the B-L wire bundle.
- Engine Room No.1 R/B and J/B:** Contains a fuse (FR IG) and a switch (IG1 Relay). It is connected to the R-B wire bundle and the W-L wire bundle.
- Driver Side J/B:** Contains a switch (AM1) and a fuse (DF). It is connected to the R-W (*2) wire bundle and the W-L wire bundle.
- FL Block:** Contains a switch (D-J/B) and a fuse (ALT). It is connected to the B-W wire bundle and the B-L wire bundle.
- H4 Headlamp Cleaner Motor:** Connected to the R-B wire bundle and the W-B wire bundle.
- H3 Headlamp Cleaner Control Relay:** Contains a switch (IG1) and a fuse (AM1). It is connected to the R-B wire bundle and the W-B wire bundle.
- Wiring Bundles:** R-B, W-L, W-R, R-W, B-W, B-L, W-B, E, ED, EC.

INSPECTION PROCEDURE

1 CHECK HARNESS AND CONNECTOR(HEADLAMP CLEANER CONTROL RELAY - BATTERY)



- (a) Disconnect the connector from the headlamp cleaner relay.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

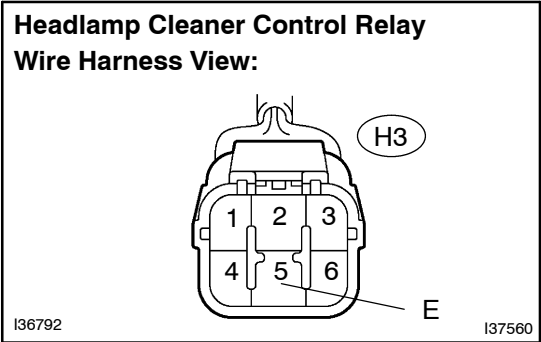
Tester connection	Condition	Specified condition
H3-1 - H3-5	Ignition switch OFF	Below 1 V
H3-1 - H3-5	Ignition switch ON	10 to 14 V
H3-2 - H3-5	Always	10 to 14 V

NG Go to step 2

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-1582)

2 CHECK HARNESS AND CONNECTOR(GROUND CIRCUIT)



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

Standard:

Tester connection	Condition	Specified condition
H3-5 - Body ground	Always	Below 1 Ω

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

3

INSPECT HEADLAMP CLEANER CONTROL RELAY

Headlamp Cleaner Control Relay
Wire Harness View:

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

Standard:

Tester connection	Condition	Specified condition
H3-2 – Body ground	Always	10 to 14 V

NG

Go to step 4

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR (IGNITION SWITCH CIRCUIT)

4

INSPECT HEADLAMP CLEANER WASHER MOTOR AND PUMP ASSY

- (a) Disconnect the connector from the headlamp cleaner motor and pump assy.
- (b) Connect the positive battery (+) lead to terminal 1 of headlamp cleaner motor and pump assy, and the negative battery (–) lead to terminal 2.

OK: Operation sounds are heard.

NG

REPLACE HEADLAMP CLEANER WASHER MOTOR AND PUMP ASSY

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR (HEADLAMP CLEANER MOTOR CIRCUIT)