

14. Night View Projector does not come on

CIRCUIT DESCRIPTION

The Night View Projector does not come on when the bulb has a short circuit, the Night View Relay malfunctions or the signals to operate the system are not input to the Night View ECU.

HINT:

If one of the bulbs does not come on, it may be burned out.

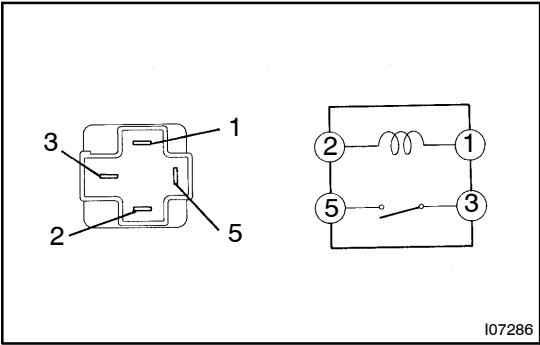
The Lamp Failure Relay turns the Night View Warning Light in the combination meter on whenever one of the Night View Projectors has a burned out bulb.

The diagram illustrates the electrical system for the Night View feature. Key components include:

- Combination Meter:** Houses the Night View indicator lamp.
- Night View ECU:** Controls the system, receiving input from the Night View sensor (IG1) and outputting to the Night View Relay.
- Engine Room J/B (Junction Box):** Contains the Night View Relay and the Night View Projector LH (N4) and RH (N5) relays.
- Wiring:** Shows the flow of power from the battery through various relays (J18, J20, J21), switches (SB), and fuses (C14, C17, C18, C19) to the indicator lamp and projectors.
- Grounding:** The system is grounded at the bottom right.

INSPECTION PROCEDURE

1	Check Night View Relay.
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PREPARATION:

Remove the Night View Relay from the engine room relay block.

CHECK:

Check operation of the Night View Relay.

OK:

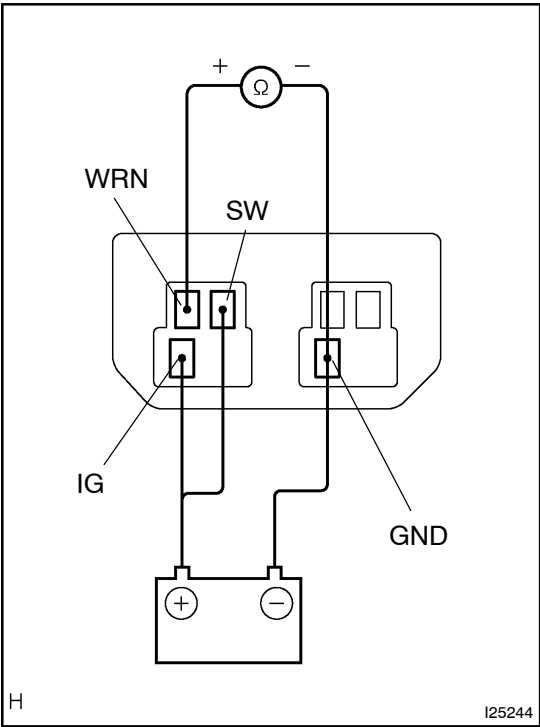
Terminal No.	Specified condition
3 - 5	No continuity
	Less than 1 Ω (When battery voltage is applied to terminals 1 and 2)

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Replace Night View Relay.

OK

2	Check Lamp Failure Relay.
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PREPARATION:

- (a) Remove the Lamp Failure Relay from engine room relay block.
- (b) Connect the battery positive terminal to terminal IG and terminal SW and the battery negative terminal to terminal GND.

CHECK:

Check continuity of the Night View Relay terminal between WRN and GND.

OK:

Resistance:

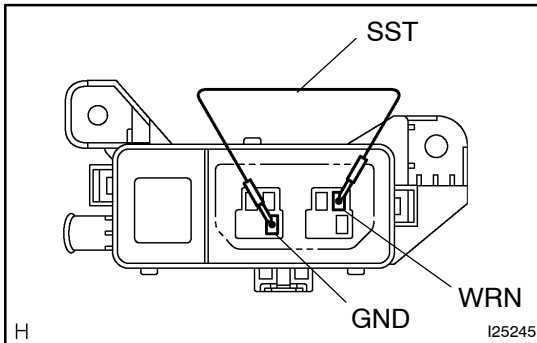
Less than 1 Ω within 1.5 seconds of the connection.

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Replace Lamp Failure Relay.

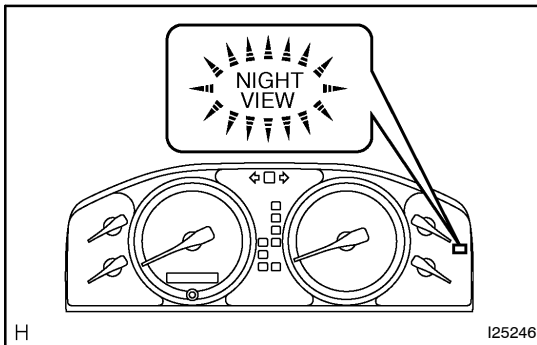
OK

3 Check Night View Warning Light (LED bulb) of combination meter.



PREPARATION:

- Remove the Night View Failure Relay from the engine room relay block.
- Turn the ignition switch ON.
- Switch to Inspection Mode (See page [DI-1247](#)).
- Using SST (diagnosis check wire), connect terminals WRN and GND of the engine room relay block.
SST 09843-18040



CHECK:

Check that the Night View Warning Light in the combination meter comes on.

OK:

The Night View Warning Light comes on.

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Go to step 4.

OK

Go to step 5.

4 Check wire harness between Combination Meter and Lamp Failure Relay (See page IN-36).

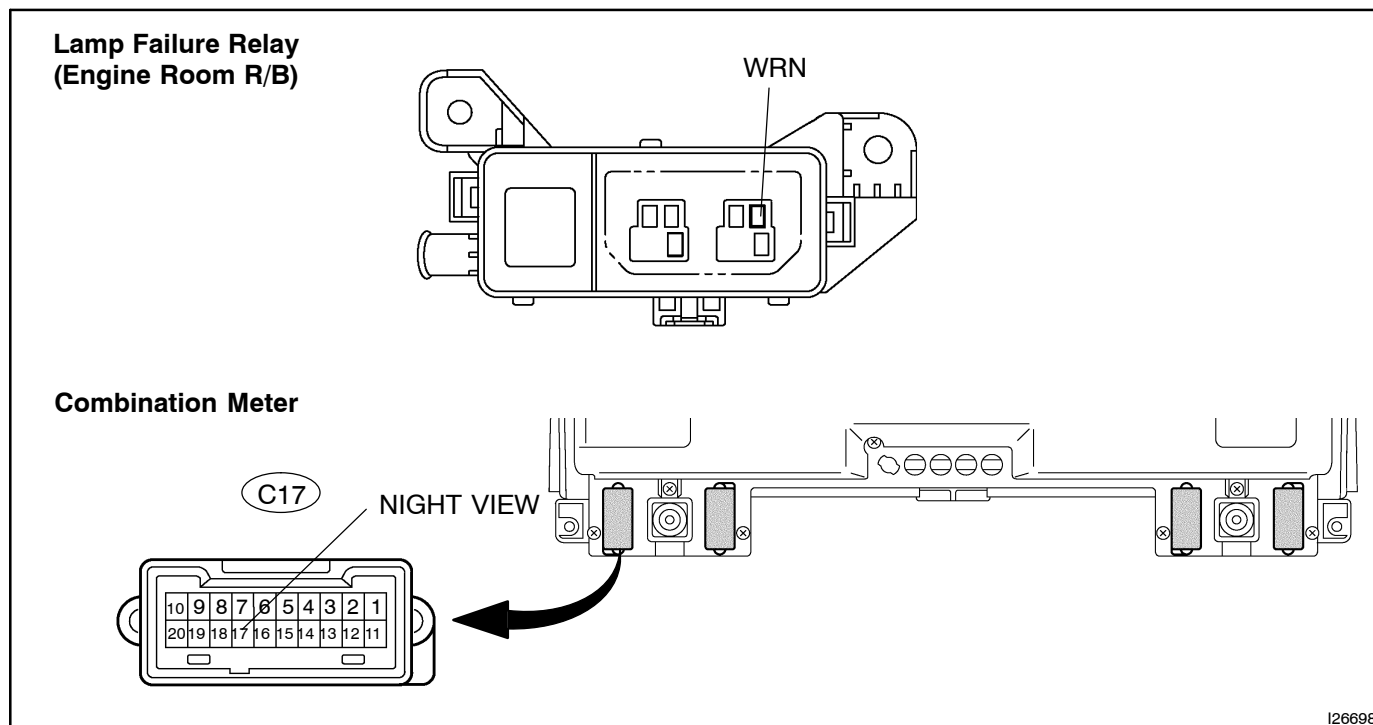
PREPARATION:

- (a) Remove the combination meter.
- (b) Disconnect the connector "C17" from combination meter.

HINT:

Remove the Night View Relay from engine room R/B.

CHECK:



Check the resistance between terminal WRN and body ground.

OK:

Resistance: More than 10 k Ω

CHECK:

Check the resistance between terminal WRN and NIGHT VIEW.

OK:

Resistance: Less than 1 Ω

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Repair or replace wire harness or connector.

OK

Replace combination meter assy.

5	Check using INSPECTION MODE.
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PREPARATION:

- (a) Turn the ignition switch ON.
- (b) Switch to Inspection Mode (See page [DI-1247](#)).

CHECK:

Check that the Night View Projector turns on in Inspection Mode.

OK:

The Night View Projector turns on.

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Go to step 6.

OK

Go to step 7.

6 Check voltage between terminal LAMP of Night View ECU and body ground.

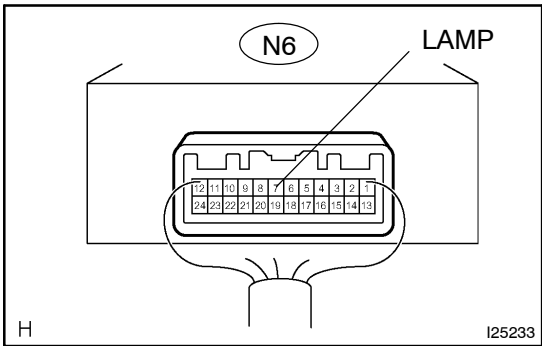
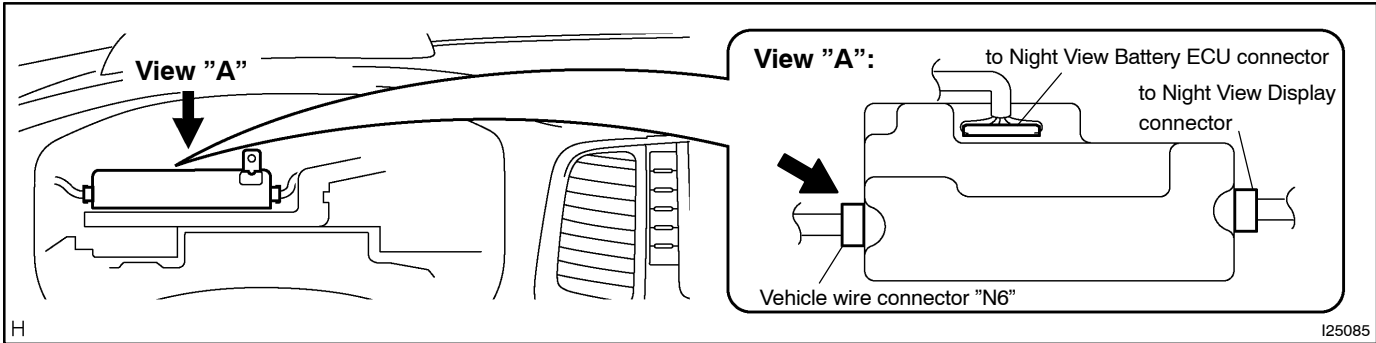
PREPARATION:

HINT:

Remove the Night View Relay from the engine room relay block.

- (a) Remove the combination meter.
- (b) Ignition switch ON.
- (c) Inspection Mode ON (See page [DI-1247](#)).

CHECK:



Measure voltage between terminal LAMP of the Night View ECU connector "N6" and body ground.
(Terminals of ECU: See page [DI-1251](#))

OK:

Voltage: Above 10 V

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Replace Night View ECU.

OK

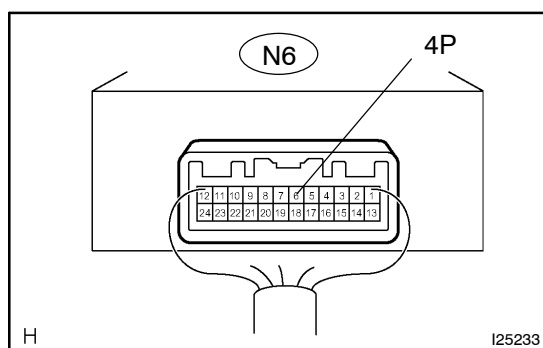
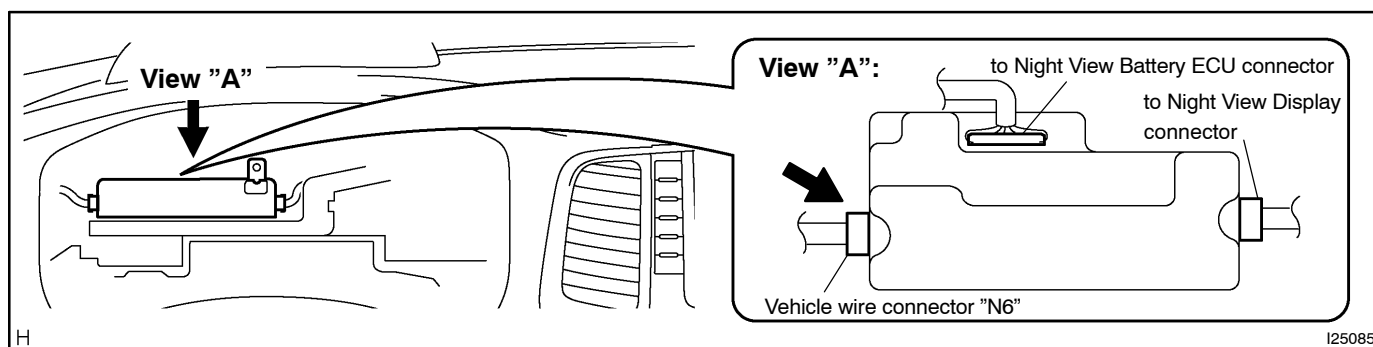
**Repair or replace wire harness or connector
(Night View ECU - Night View Relay).**

7 Check voltage between terminal 4P of Night View ECU and body ground.

PREPARATION:

- Remove the combination meter.
- Jack up either of the front and rear wheels.
- Shift the shift lever to neutral.
- Attach a test lead to terminal 4P of the Night View ECU.
- Reconnect the combination meter connectors.
- Ignition switch ON.

CHECK:

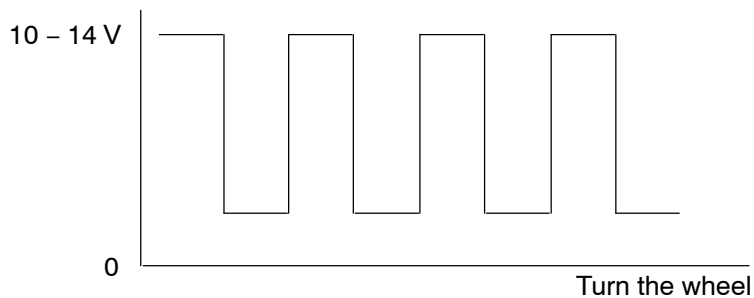


Measure voltage between terminal 4P of the Night View ECU connector "N6" and body ground while turning the wheel slowly.

(Terminals of ECU: See page [DI-1251](#))

OK:

Voltage is pulsed.



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Repair or replace wire harness or connector (Speed signal).

OK

Replace Night View ECU.