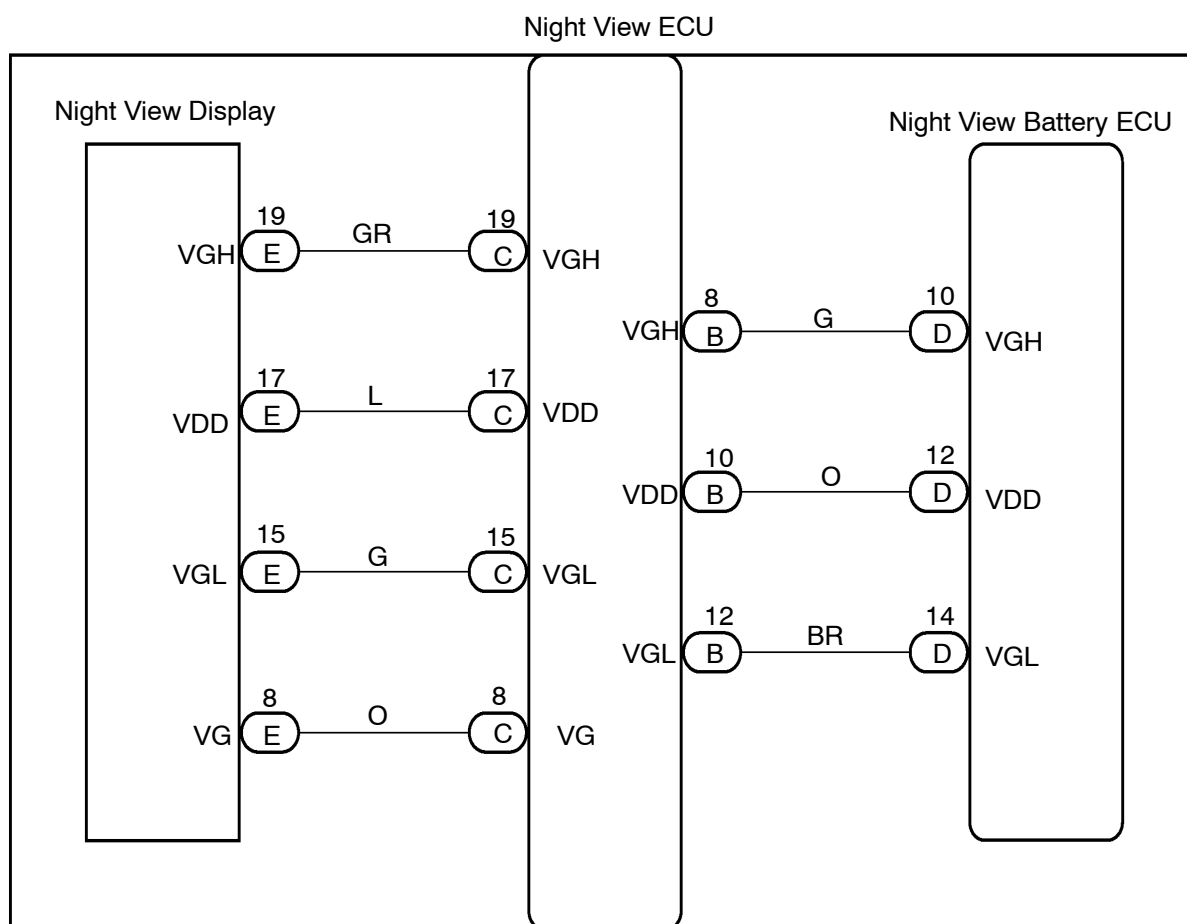


6. Screen is white

CIRCUIT DESCRIPTION

White screen occurs by a malfunction of the Night View Camera or the Night View Display, and also by dirt on the windshield.

WIRING DIAGRAM



H

I26409

INSPECTION PROCEDURE

1	Check the windshield glass in front of Night View Camera.
---	---

OK:

Windshield glass is clean.

HINT:

Night View Camera Cleaning Method (see page [DI-1247](#)).

NG

Clean the windshield glass
(Dirt on the windshield glass).

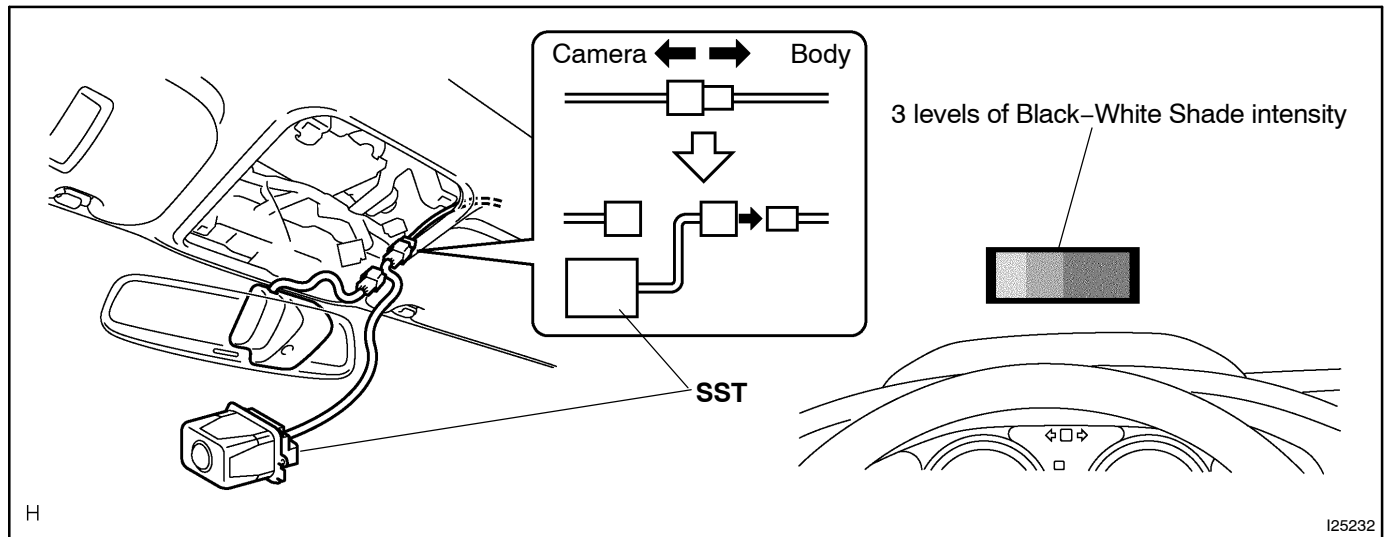
OK

2 Check Night View Camera using SST.

PREPARATION:

- Remove the over head junction (map light cover).
- Remove the connector from the Night View Camera.
- Connect SST to the wire harness of the Night View Camera on the body side as shown in the illustration.

SST 09991-00610



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

CHECK:

Check the screen of the Night View Display.

OK:

3 levels of Black-White shade intensity displayed.

NG

Go to step 3.

OK

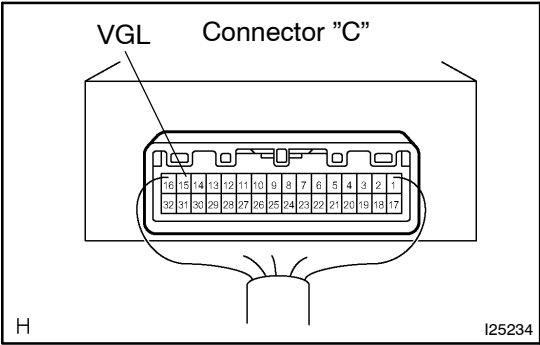
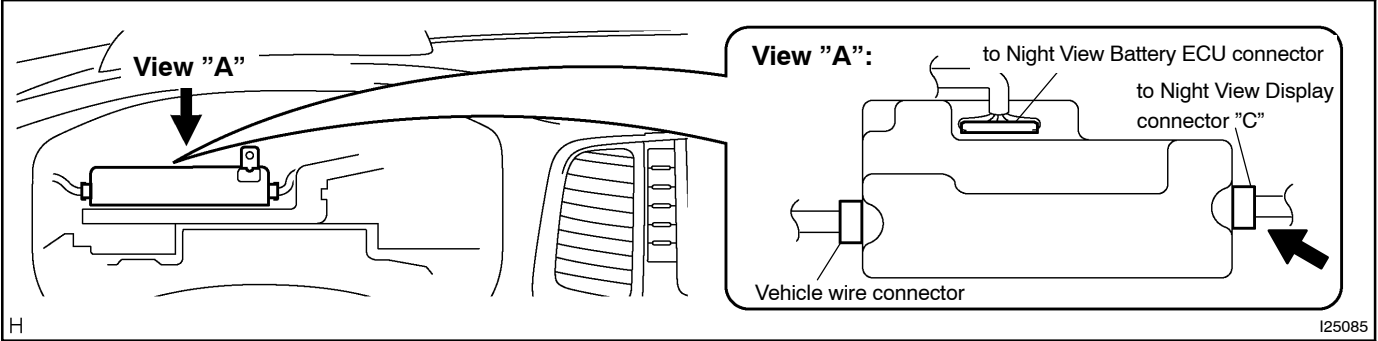
Replace Night View Camera.

3 Check voltage between terminal VGL of Night View ECU connector "C" and body ground.

PREPARATION:

- (a) Remove the combination meter.
- (b) Turn the ignition switch ON.

CHECK:



Measure voltage between terminal VGL of the Night View ECU connector "C" and body ground.

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

OK:

Voltage:

VGL: -15 to -17 V

(Terminal voltages must meet the specified value between 0 and 20 seconds after ignition switch is ON.)

NG

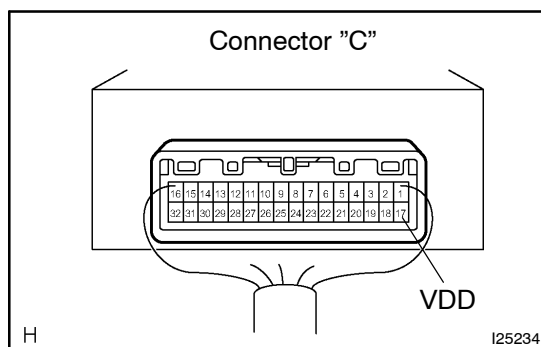
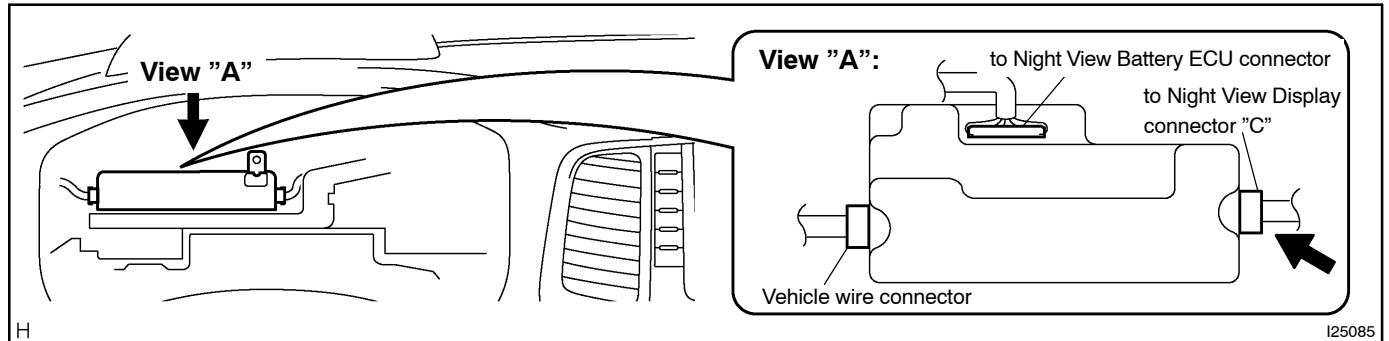
Go to step 7.

OK

- 4 Check voltage between terminal VDD of Night View ECU connector "C" and body ground.**

PREPARATION:

Ignition switch ON.

CHECK:

Measure voltage between terminal VDD of the Night View ECU connector "C" and body ground.

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

OK:**Voltage:****VDD: 4.75 to 5.25 V**

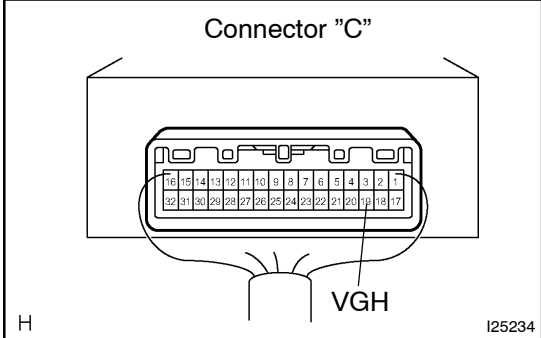
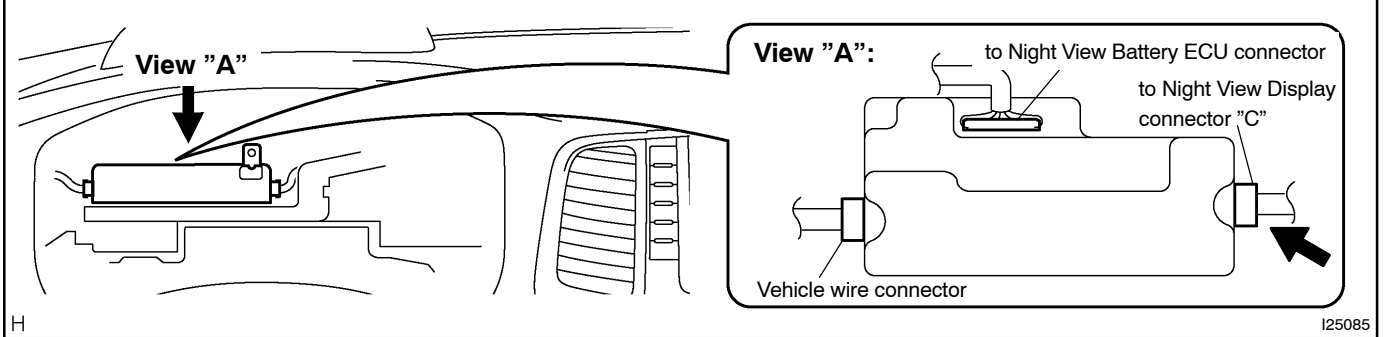
(Terminal voltages must meet the specified value between 0 and 20 seconds after ignition switch is ON.)

NG**Go to step 7.****OK**

5 Check voltage between terminal VGH of Night View ECU connector "C" and body ground.

PREPARATION:
Ignition switch ON.

CHECK:



Measure voltage between terminal VGH of the Night View ECU connector "C" and body ground.

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

OK:

Voltage:

VGH: 17.4 to 18.6 V

(Terminal voltages must meet the specified value between 0 and 20 seconds after ignition switch is ON.)

RESULT:

OK	A (When not using oscilloscope)
	<Reference> B (when using oscilloscope)
NG	C

B Go to step 6.

C Go to step 7.

A

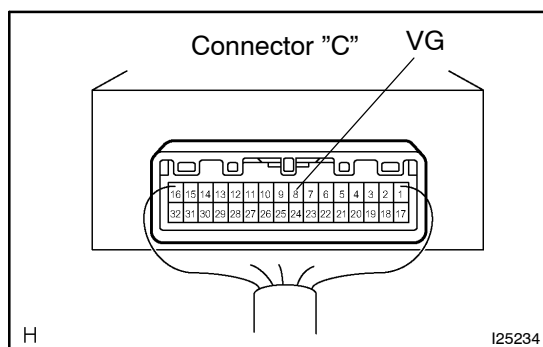
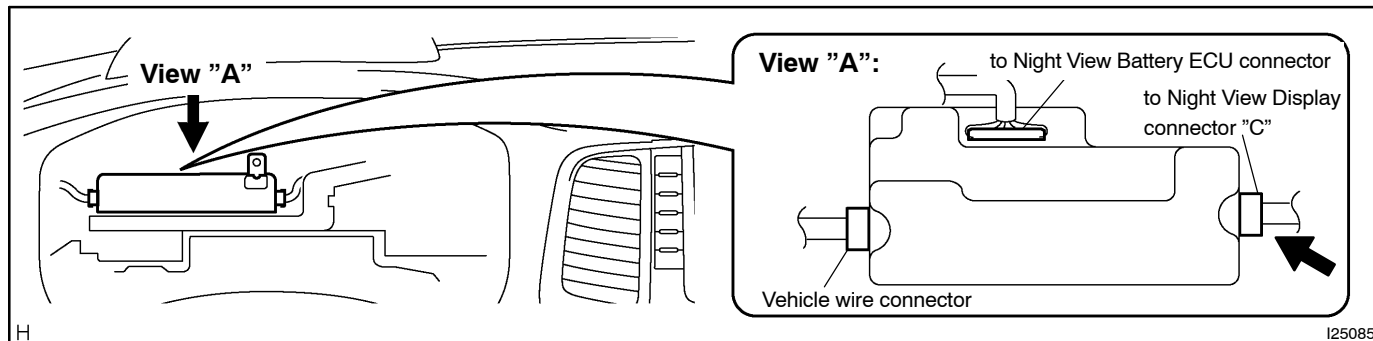
Replace Night View ECU.

HINT:
If the symptom still occurs, replace the Night View Display.

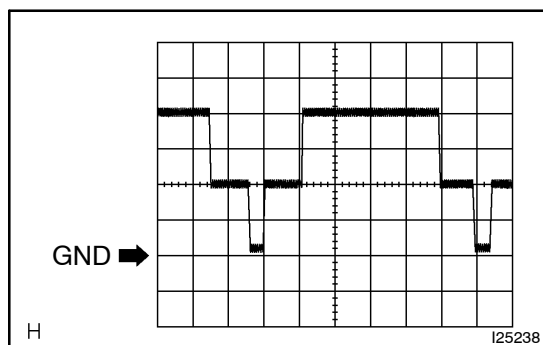
- 6 Using an oscilloscope, check the output waveform between terminal VG of Night View ECU and body ground.**

PREPARATION:

- (a) Ignition switch ON.
(b) Inspection Mode ON (See page [DI-1247](#)).

CHECK:

Using an oscilloscope, check the output waveform between terminal VG of the Night View ECU connector "C" and body ground. (Terminals of ECU: See page [DI-1251](#))

**OK:**

The output waveform is as shown in the illustration.
(Reference) oscilloscope condition:

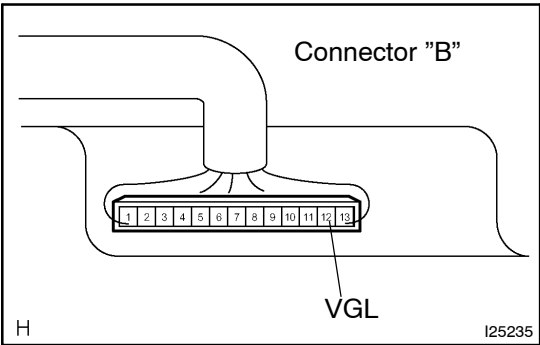
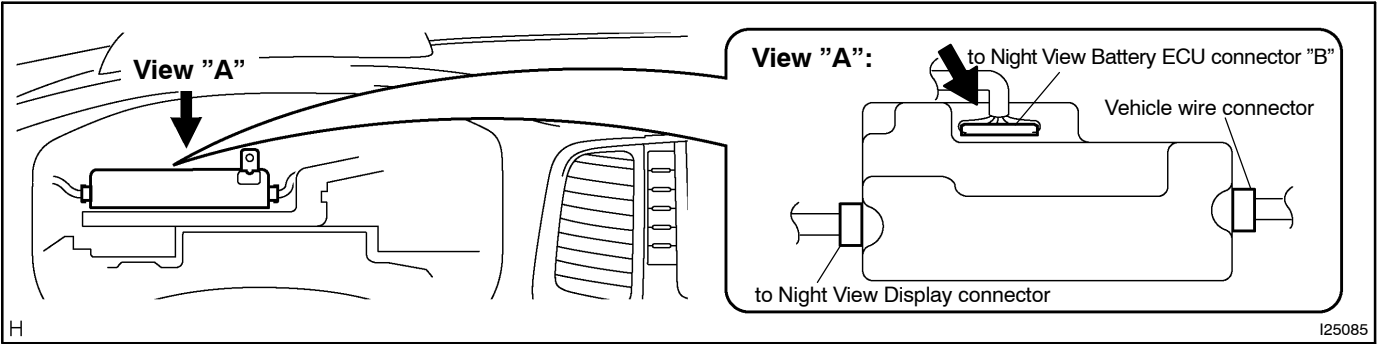
Item	Contents
Tool setting	200 mV / DIV, 10 μ s / DIV
Vehicle condition	When Night View System starts up

NG**Replace Night View Display.****OK****Replace Night View ECU.**

7 Check voltage between terminal VGL of Night View ECU connector "B" and body ground.

PREPARATION:
Ignition switch ON.

CHECK:



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

OK:

Voltage:

VGL: -15 to -17 V

(Terminal voltages must meet the specified value between 0 and 20 seconds after ignition switch is ON.)

NG

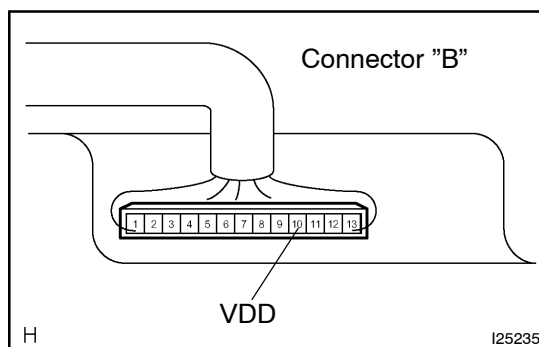
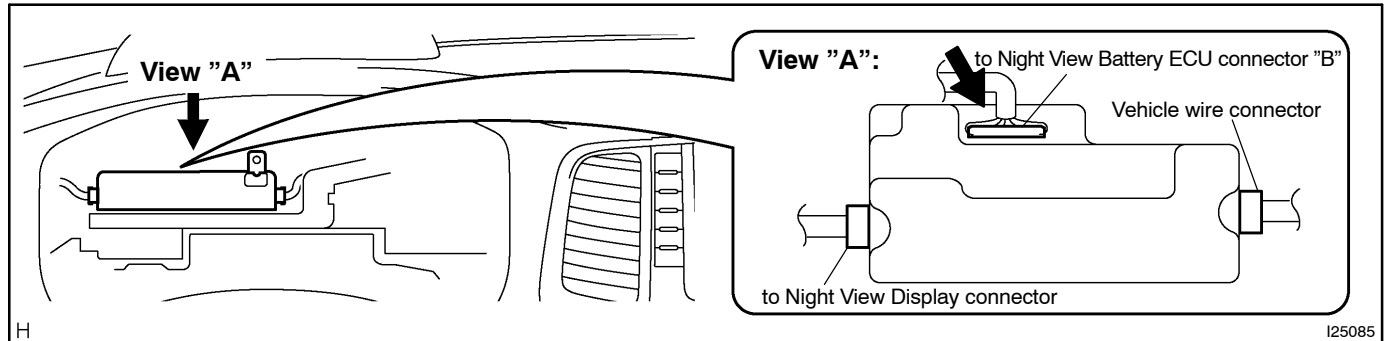
Go to step 10.

OK

- | | |
|----------|--|
| 8 | Check voltage between terminal VDD of Night View ECU connector "B" and body ground. |
|----------|--|

PREPARATION:

Ignition switch ON.

CHECK:

Measure voltage between terminals VGL, VDD, VGH of the Night View ECU connector "B" and body ground.

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

OK:**Voltage:****VDD: 4.75 to 5.25 V**

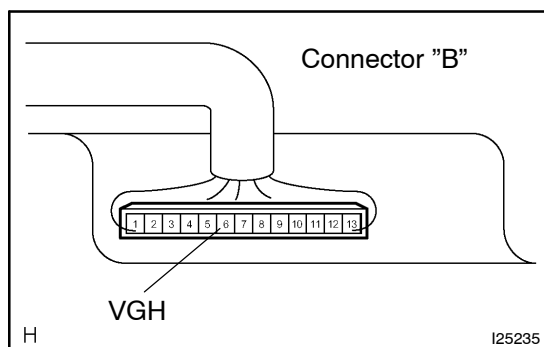
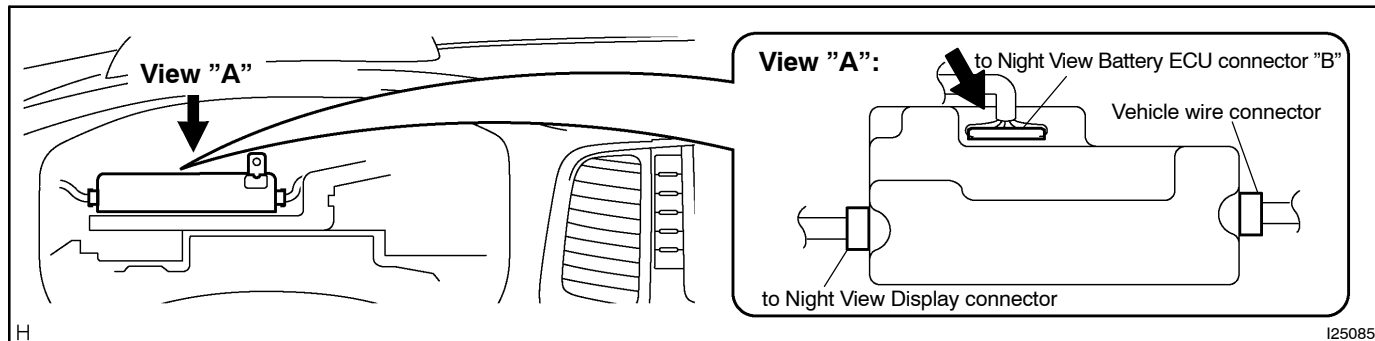
(Terminal voltages must meet the specified value between 0 and 20 seconds after ignition switch is ON.)

NG**Go to step 10.****OK**

- 9 Check voltage between terminal VGH of Night View ECU connector "B" and body ground.**

PREPARATION:

Ignition switch ON.

CHECK:

Measure voltage between terminal VGH of the Night View ECU connector "B" and body ground.

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

OK:**Voltage:****VGH: 17.4 to 18.6 V**

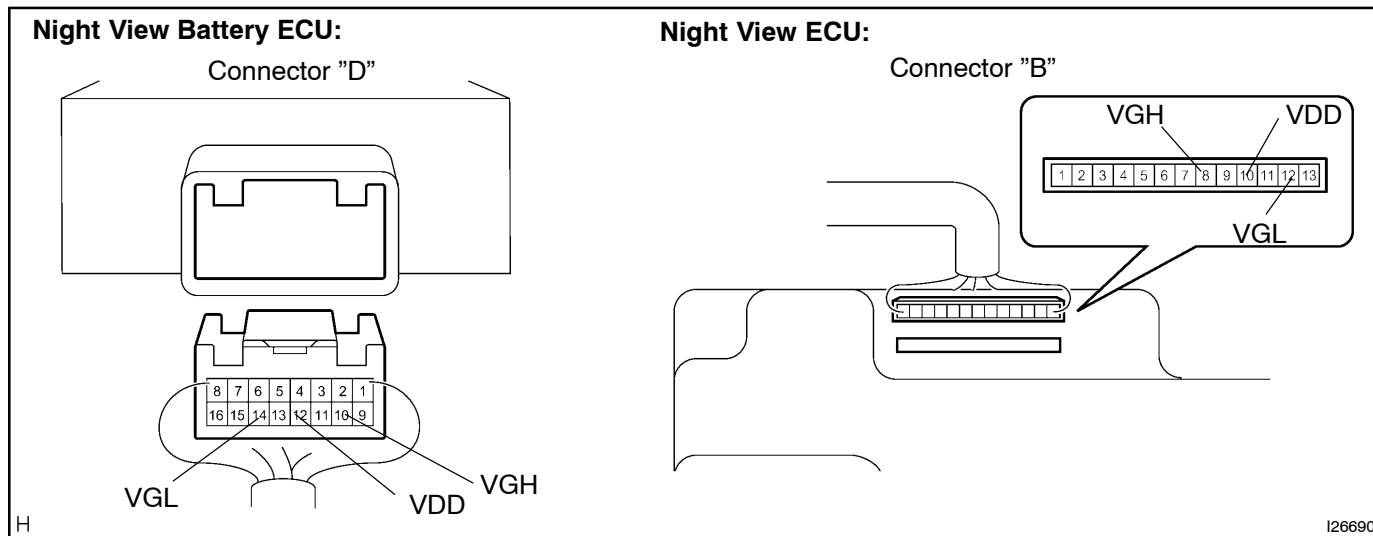
(Terminal voltages must meet the specified value between 0 and 20 seconds after ignition switch is ON.)

NG**Go to step 10.****OK****Replace Night View ECU.**

- 10** Check wire harness between terminals VGL, VDD and VGH of Night View Battery ECU and Night View ECU (See page [IN-36](#)).

PREPARATION:

Remove the wire harness between the Night View Battery ECU and the Night View ECU.

**CHECK:**

Check the resistance between terminals VGL, VDD, and VGH of connector "D" and those of "B".
(Terminals of ECU: See page [DI-1251](#))

OK:

Resistance: Less than 1 Ω

NG

Replace wire harness.

OK

Replace Night View Battery ECU.