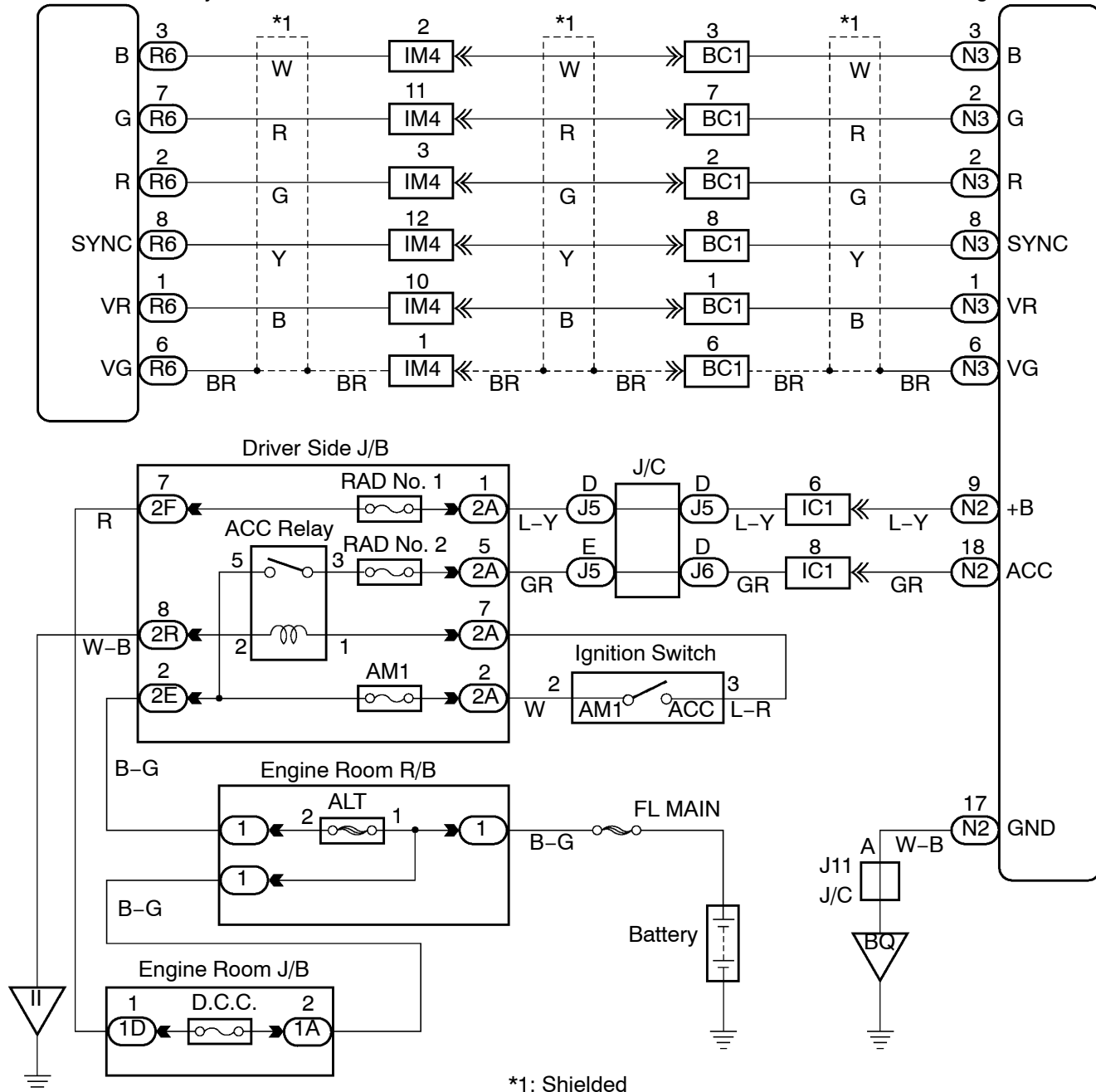# COLOR ON NAVIGATION SCREEN IS UNUSUAL (RGB SIGNAL ERROR)
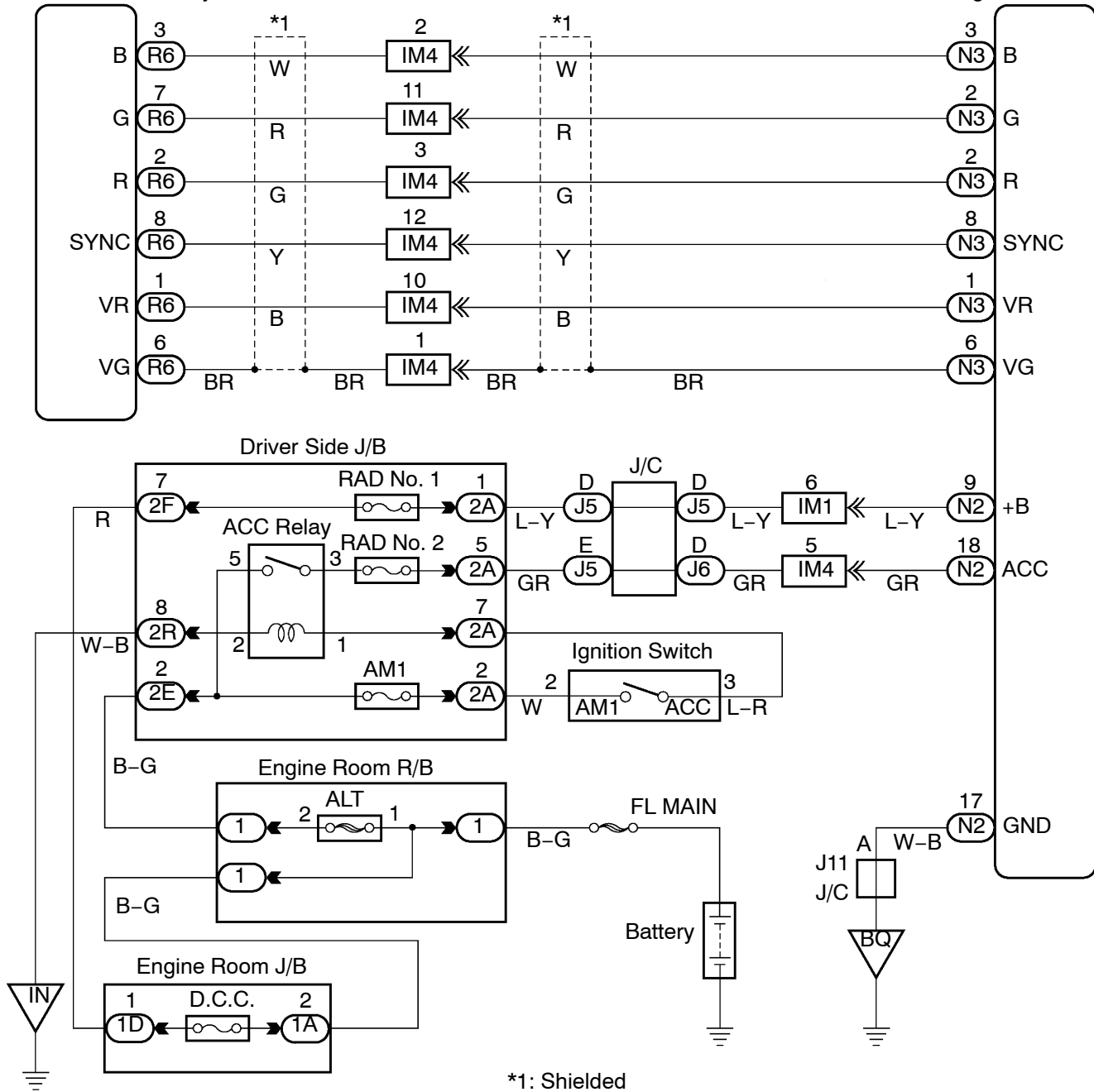
WIRING DIAGRAM

LHD models:

*1: Shielded

H

I31822

RHD models:

Radio Receiver Assy

Navigation ECU

*1: Shielded

H

I31821

INSPECTION PROCEDURE

1	DISPLAY CHECK MODE(COLOR BAR CHECK)

(a) Perform dispay check mode.

   (1) Start the diagnosis system and perform display color bar check of display check mode.
   Standard: Color bar check is normally

NG	CHECK AND REPLACE RADIO RECEIVER ASSY

OK

2	NAVIGATION CHECK MODE(NAVI COLOR BAR CHECK)

(a) Perform navigation check mode.

   (1) Start the diagnosis system and perform navigation color bar check of navigation check mode.
   Standard: Color bar check is normally

NG	Go to step 4

OK

3	CHECK SETTING(NAVIGATION SETTING)

(a) Check the color settings of each daytime screen/night screen at the "Navigation setting" on the menu.
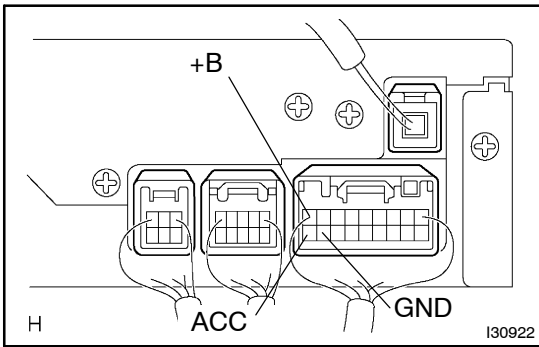   **Standard: Color setting is normally**

| NG	CHECK AND REPLACE NAVIGATION ECU

OK

NORMAL

4	INSPECT NAVIGATION ECU(+B, ACC, GND)

(a) Remove the navigation ECU with connectors with still connected.

(b) Check voltage.

    (1) Measure voltage between terminals +B, ACC and GND of navigation ECU at each conditions, as shown in the chart.

Standard:

Terminal	Condition	Voltage (v)
+B ⇔ GND	Constant	10 – 14 V
ACC ⇔ GND	Turn ignition switch ACC	10 – 14 V

(c) Check continuity.

    (1) Check that the continuity exists between terminal GND of navigation ECU and body ground.
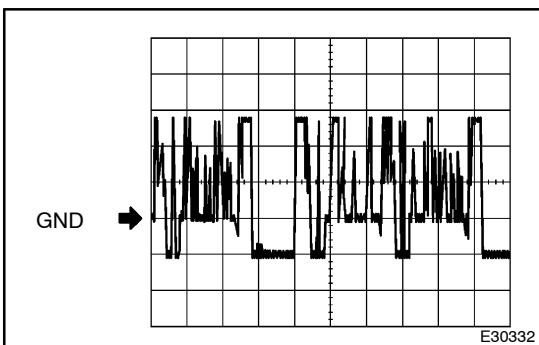
Standard: Continuity exists.

NG >	REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

5	INSPECT NAVIGATION ECU(R, G, B, VR, VG)
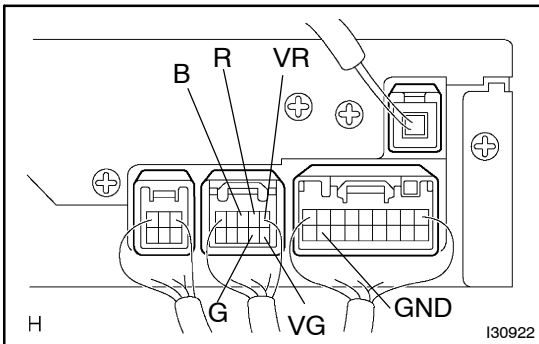
(a) Check continuity.

    (1) Check that the continuity exists between each terminals, as shown in the chart.

Standard:

Terminal	Condition	Specified condition
VR ⇔ Body ground	Constant	Continuity
VG ⇔ Body ground	Constant	Continuity

(b) Check signal waveform.

    (1) Using an oscilloscope, check signal waveform between terminals R, G, B and GND of navigation ECU.

Item	Contents
Tool setting	200 mV/ DIV, 10 μs/ DIV
Condition	Navigation display is displayed

HINT:

Signal wave from is shown in the chart.

NG >	CHECK AND REPLACE NAVIGATION ECU

OK

6	INSPECT RADIO RECEIVER ASSY(R, G, B, VR, VG)
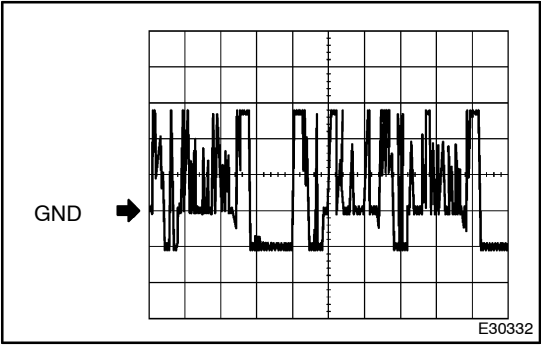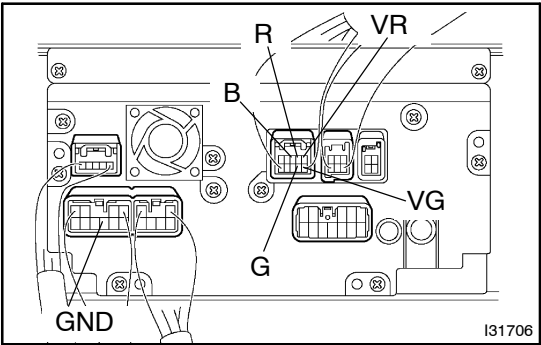
I31706

E30332

(a) Check continuity.
(1) Check that the continuity exists between each terminals, as shown in the chart.

Standard:

Terminal	Condition	Specified condition
VR ⇔ Body ground	Constant	Continuity
VG ⇔ Body ground	Constant	Continuity

(b) Check signal waveform.
(1) Using an oscilloscope, check signal waveform between terminals R, G, B and GND of radio receiver assy.

Item	Contents
Tool setting	200 mV/ DIV, 10 μs/ DIV
Condition	Navigation display is displayed

HINT:

Signal wave from is shown in the chart.

NG >	REPAIR OR REPLACE HARNESS OR CONNECTOR

OK ▽

CHECK AND REPLACE RADIO RECEIVER ASSY