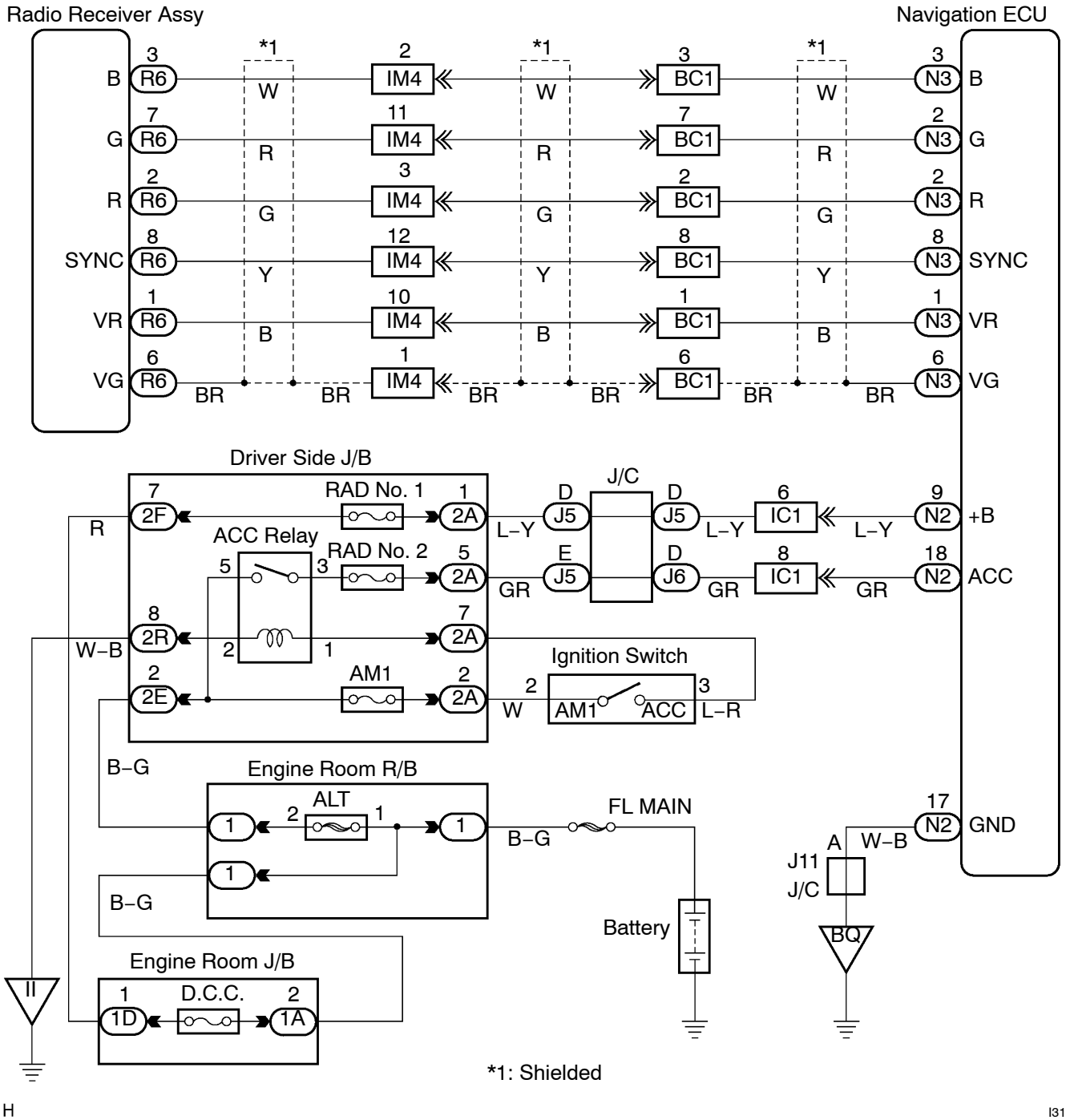
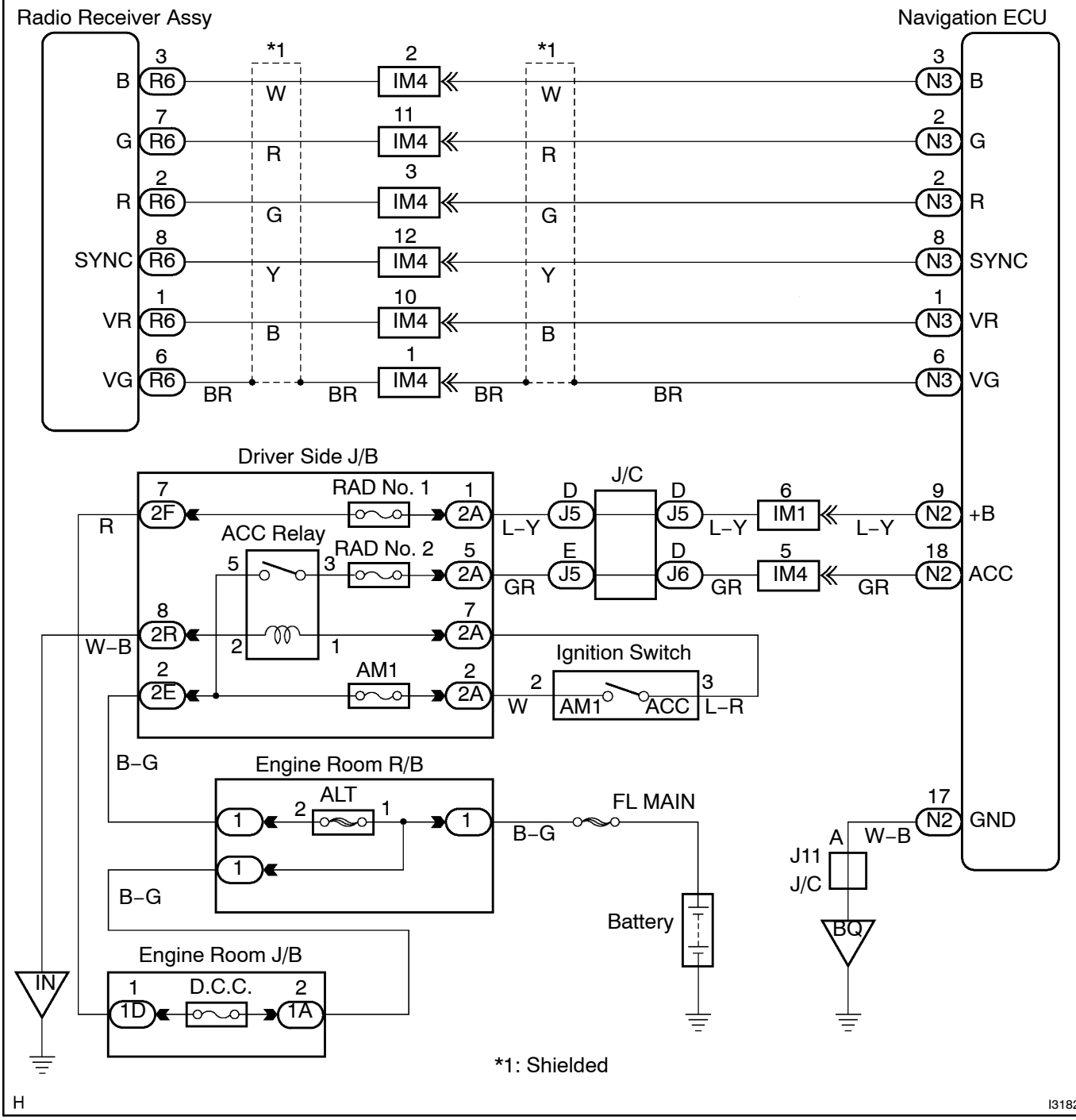
BLACK SCREEN APPEARS WHEN ”MENU”,”MAP/VOICE”OR ”DEST”SWITCH PRESSED

WIRING DIAGRAM

LHD models:

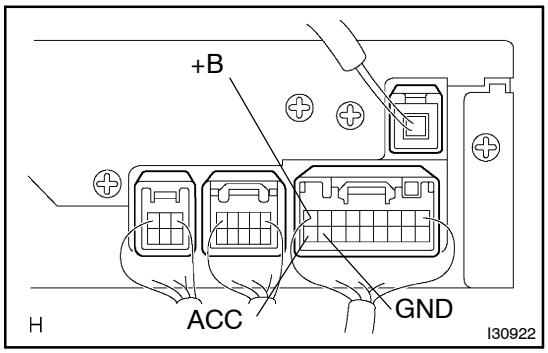


RHD models:


Radio Receiver Assy
Navigation ECU
B
G
R
SYNC
VR
VG
R6
IM4
N3
*1
W
R
G
Y
B
BR
Driver Side J/B
RAD No. 1
RAD No. 2
ACC Relay
AM1
2F
2R
2E
2A
J/C
J5
J6
IM1
IM4
N2
L–Y
GR
+B
ACC
W–B
Ignition Switch
AM1
ACC
L–R
B–G
Engine Room R/B
ALT
FL MAIN
GND
J11
J/C
BQ
Battery
Engine Room J/B
D.C.C.
1D
1A
IN
*1: Shielded
H
I31821

INSPECTION PROCEDURE

1 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.

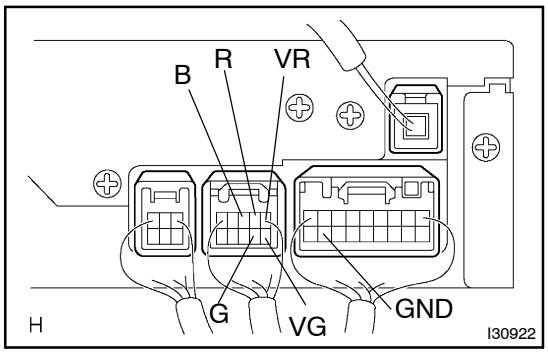
(1) Check that the continuity exists between terminal GND of navigation ECU and body ground.

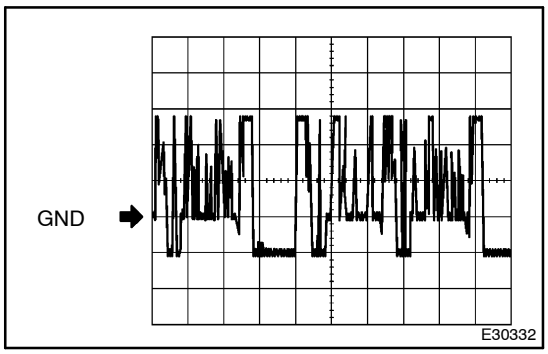
Standard: Continuity exists.

NG → **CHECK AND REPLACE HARNESS OR CONNECTOR**

OK

2 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

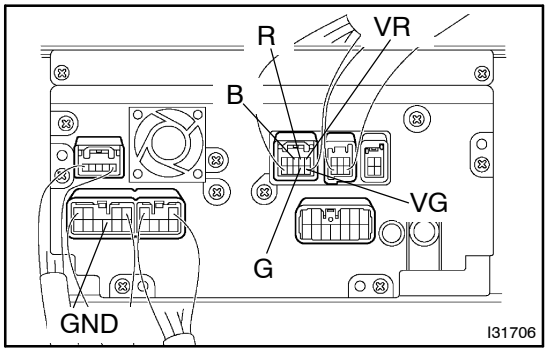
HINT:

Signal wave from is shown in the chart.

NG → **REPAIR OR REPLACE NAVIGATION ECU**

OK

3 INSPECT RADIO RECEIVER ASSY(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

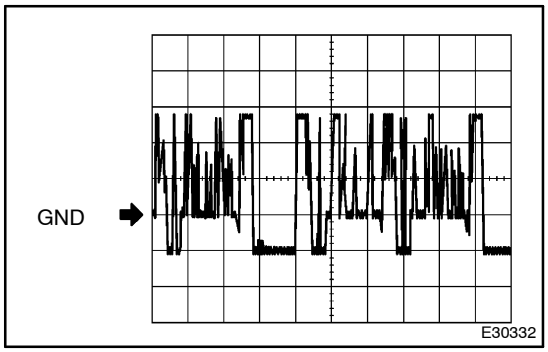
(b) Check signal waveform.

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



OK

NG → **CHECK AND REPLACE HARNESS OR CONNECTOR**

CHECK AND REPLACE RADIO RECEIVER ASSY