

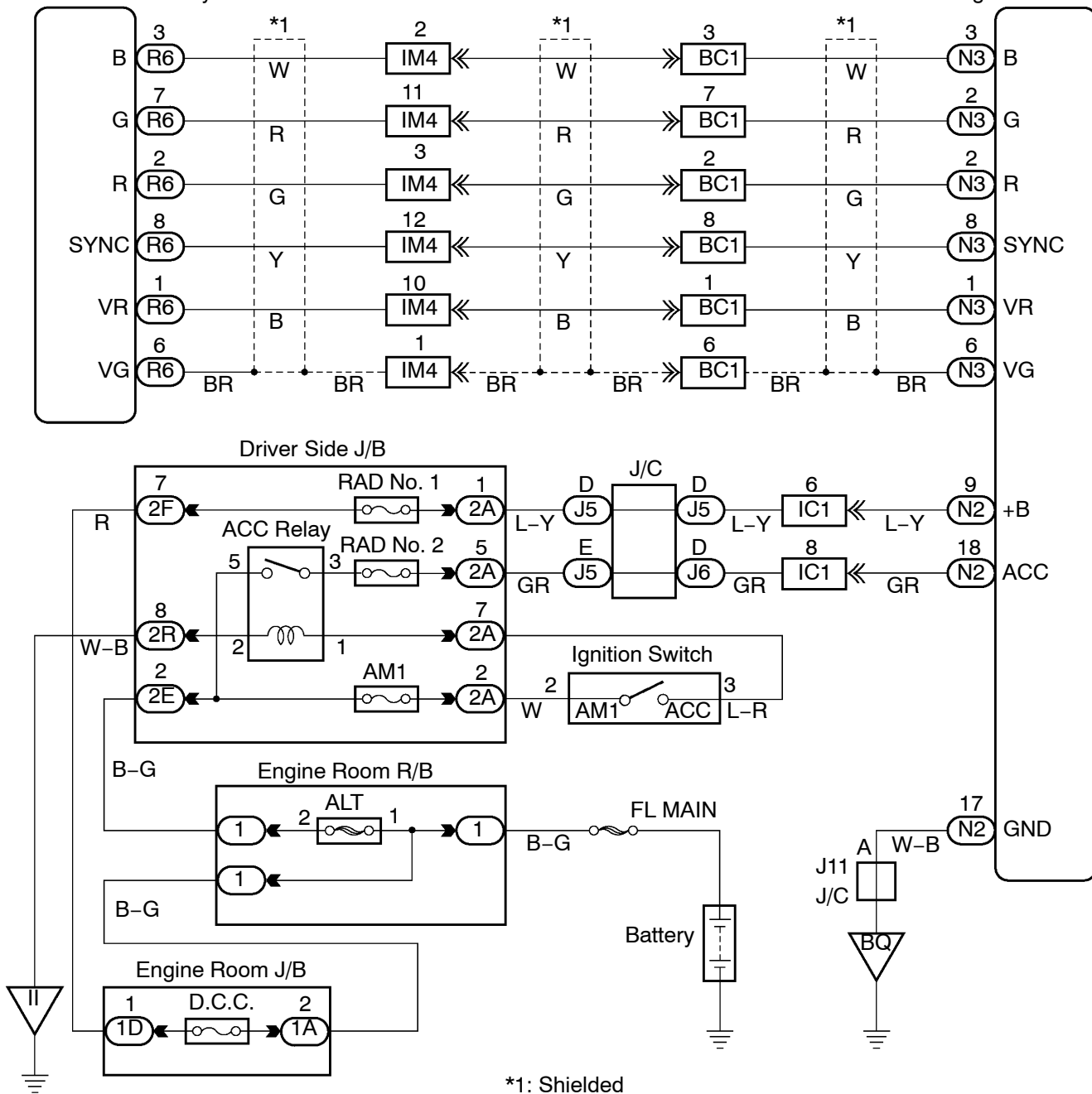
NAVIGATION SCREEN NOT STABILIZED (SYNCHRONOUS ERROR)

WIRING DIAGRAM

LHD models:

Radio Receiver Assy

Navigation ECU



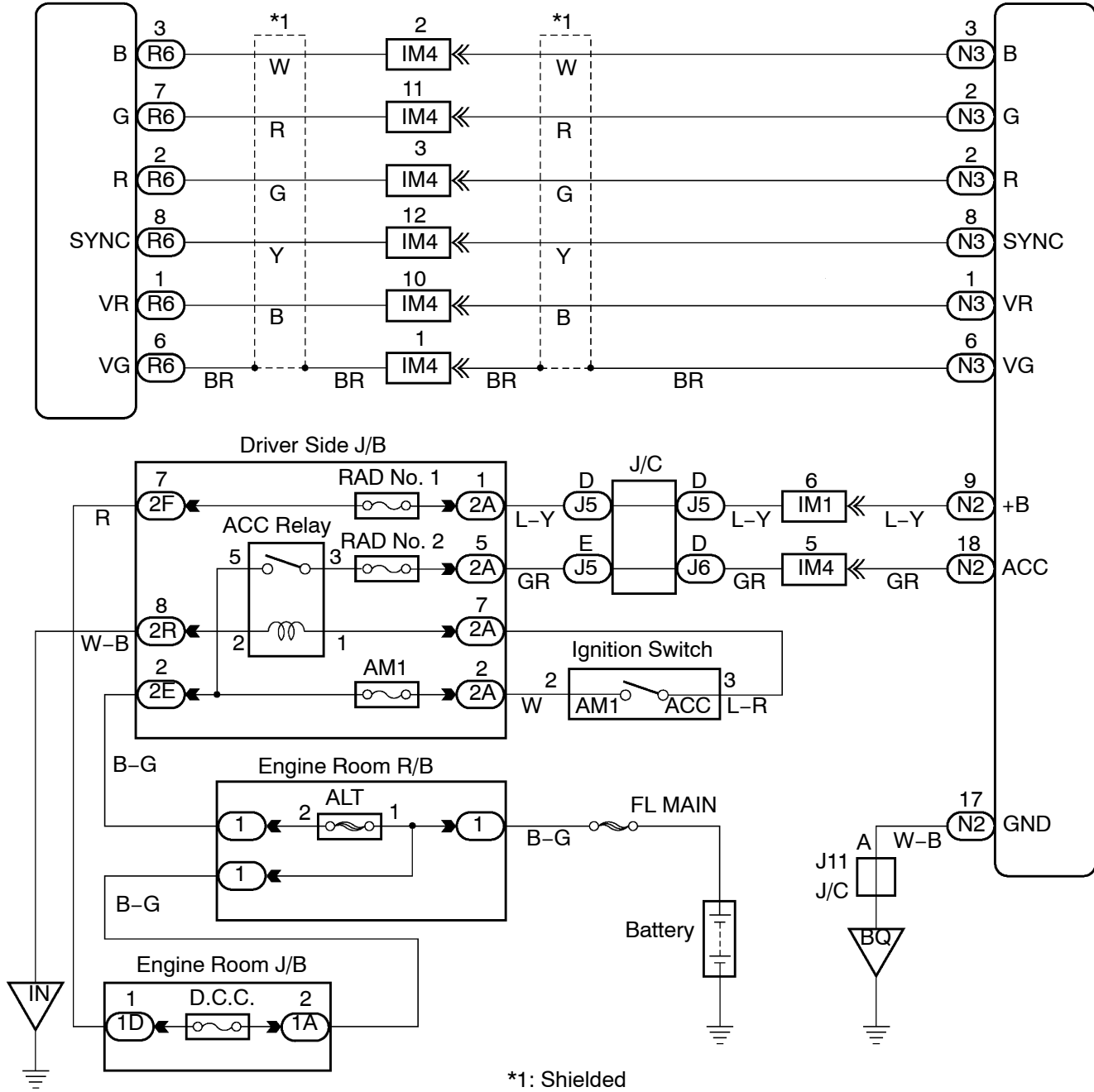
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RHD models:

Radio Receiver Assy

Navigation ECU

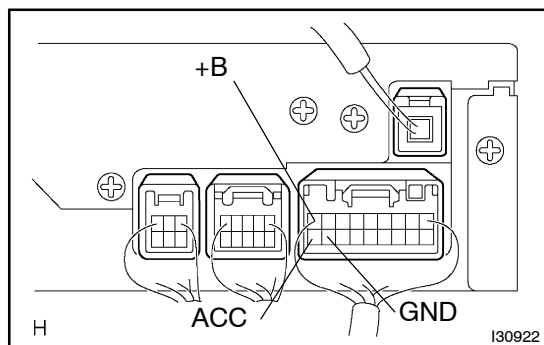


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INSPECTION PROCEDURE

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.

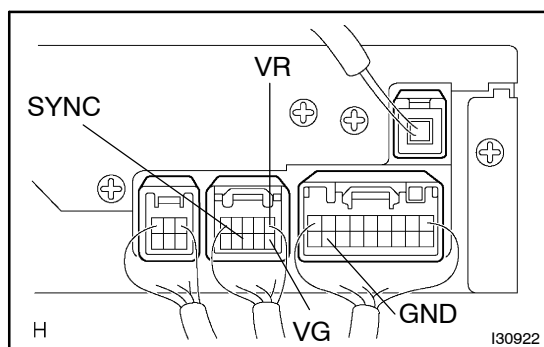
Standard: Continuity exists.

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REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

2 INSPECT NAVIGATION ECU(SYNC, VR, VG)



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

Standard:

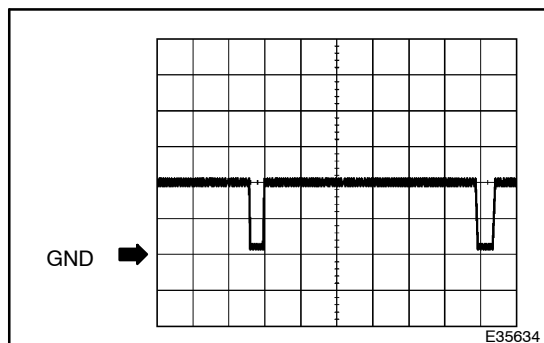
Terminal	Condition	Specified condition
VR ⇔ Body ground	Constant	Continuity
VG ⇔ Body ground	Constant	Continuity

- (b) Check signal waveform.
 - (1) Using an oscilloscope, check signal waveform between terminals SYNC and GND of navigation ECU.

Item	Contents
Tool setting	500 mV/ DIV, 10 μs/ DIV
Condition	Navigation display is displayed

HINT:

Signal wave from is shown in the chart.

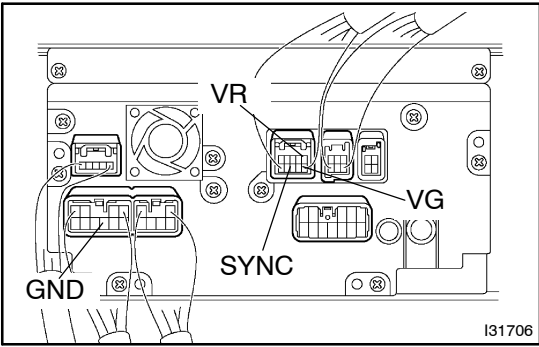


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CHECK AND REPLACE RADIO RECEIVER ASSY

OK

3 INSPECT RADIO RECEIVER ASSY(SYNC, VR, VG)



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

Standard:

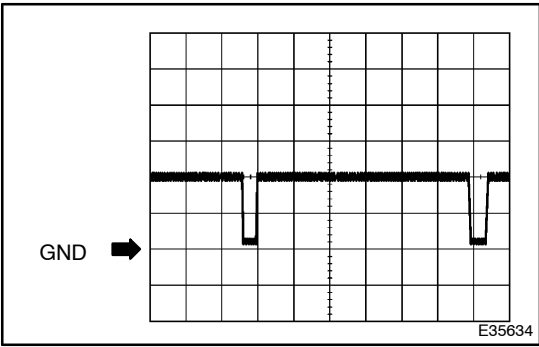
Terminal	Condition	Specified condition
VR ⇄ Body ground	Constant	Continuity
VG ⇄ Body ground	Constant	Continuity

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

Item	Contents
Tool setting	500 mV/ DIV, 10 μs/ DIV
Condition	Navigation display is displayed

HINT:

Signal wave from is shown in the chart.



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REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

CHECK AND REPLACE RADIO RECEIVER ASSY