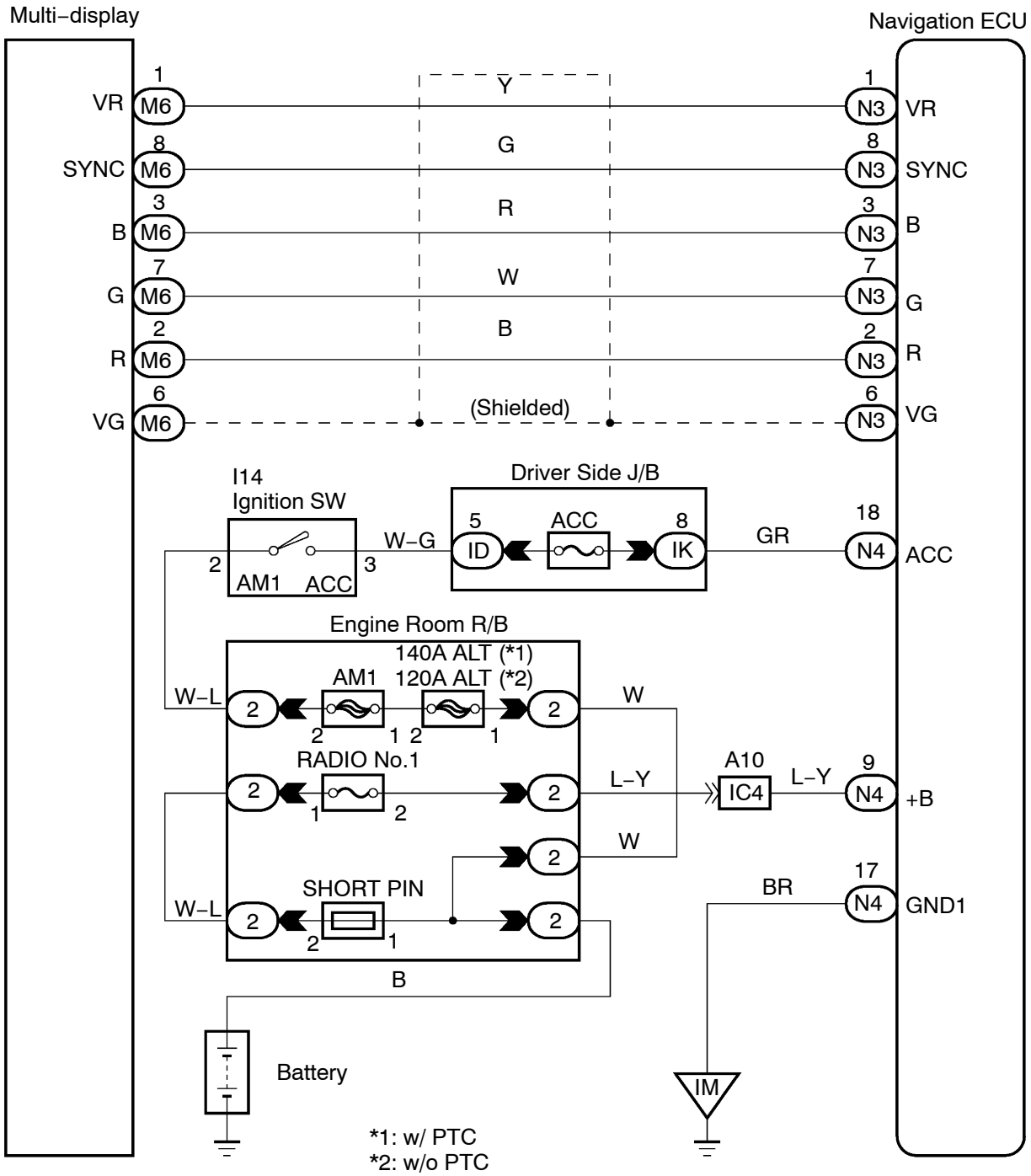
BLACK SCREEN APPEARS WHEN ”MENU”,”MAP/VOICE”OR ”DEST”SWITCH PRESSED

WIRING DIAGRAM

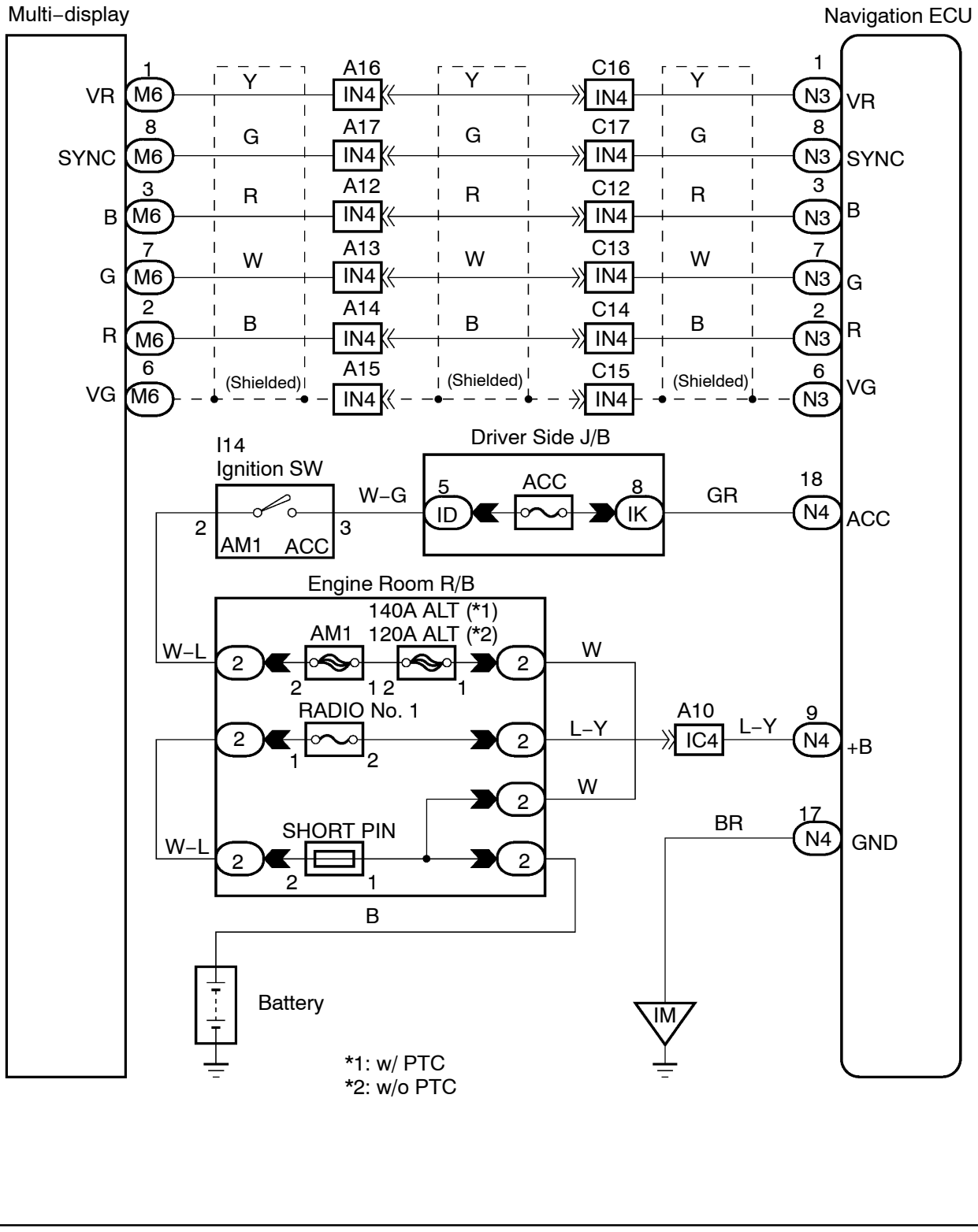
LHD Models:



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RHD Models:

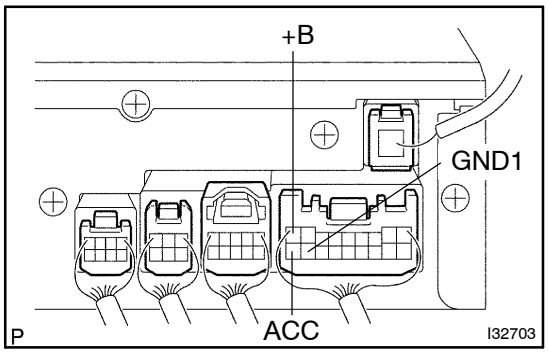


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INSPECTION PROCEDURE

1	INSPECT NAVIGATION ECU(+B, ACC, GND1)



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

(b) Check voltage.

(1) Measure voltage between terminal +B, ACC and GND1 of navigation ECU at each condition, as shown in the chart.

Standard:

Terminal	Condition	Voltage (v)
+B ⇔ GND1	Always	10 – 14 V
ACC ⇔ GND1	Turn ignition switch ACC	10 – 14 V

(c) Check continuity.

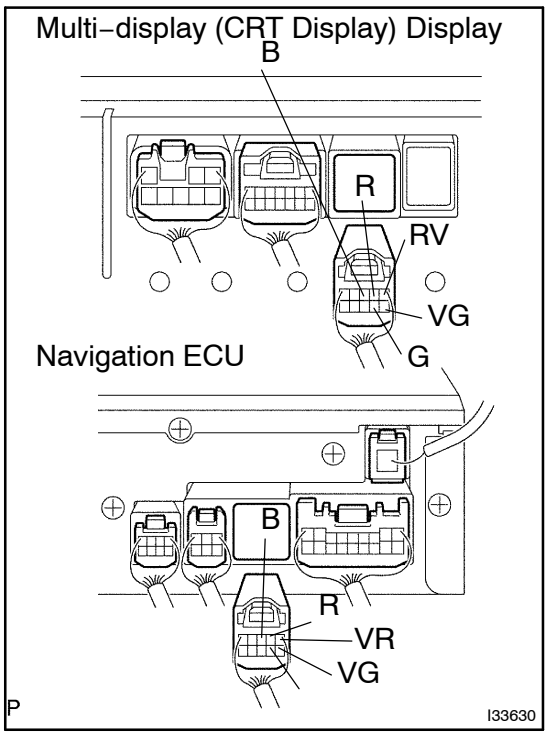
(1) Check that the continuity exists between terminal GND1 of navigation ECU and body ground.

Standard: Continuity exists.

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

2	CHECK HARNESS AND CONNECTOR(MULTI–DISPLAY (CRT DISPLAY) DISPLAY – NAVIGATION ECU)



(a) Disconnect the multi–display (CRT display) display and navigation ECU.

(b) Check continuity.

(1) Check that the continuity between multi–display (CRT display) display and navigation ECU.

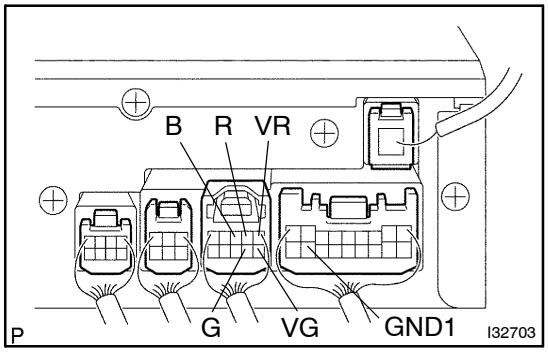
Standard:

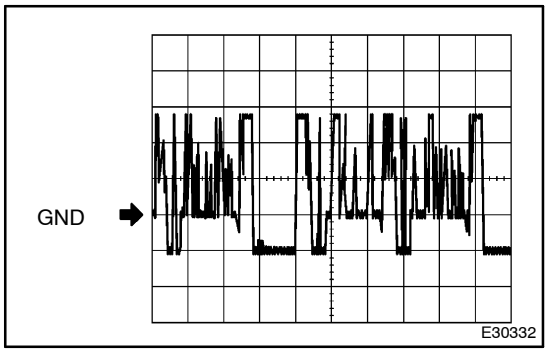
Tester connection	Specified condition
R – R	Continuity
G – G	Continuity
B – B	Continuity
VR – VR	Continuity
VG – VG	Continuity
R – Body ground	No continuity
G – Body ground	No continuity
B – Body ground	No continuity
VR – Body ground	No continuity
VG – Body ground	No continuity

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

3 INSPECT NAVIGATION ECU(R, G, B, VR, VG, GND1)





(a) Check continuity.

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

Standard:

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

(b) Check signal waveform.

(1) Using an oscilloscope, check signal waveform between terminal R, G, B and GND1 of navigation ECU

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

HINT:

Signal waveform is shown in the chart.

NG → **CHECK AND REPLACE NAVIGATION ECU**

OK

CHECK AND REPLACE MULTI–DISPLAY (CRT DISPLAY) DISPLAY