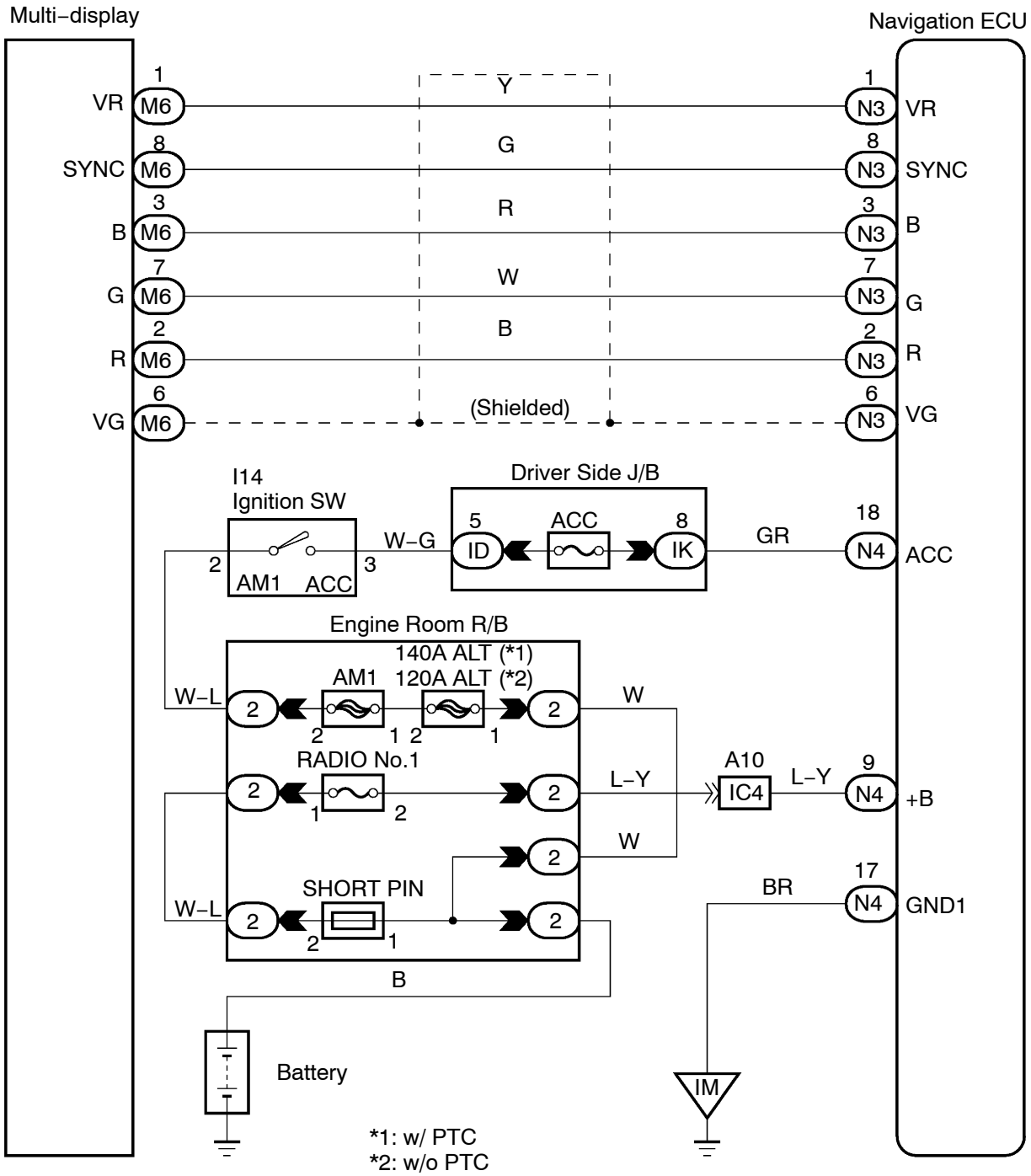
COLOR ON NAVIGATION SCREEN IS UNUSUAL (RGB SIGNAL ERROR)

WIRING DIAGRAM

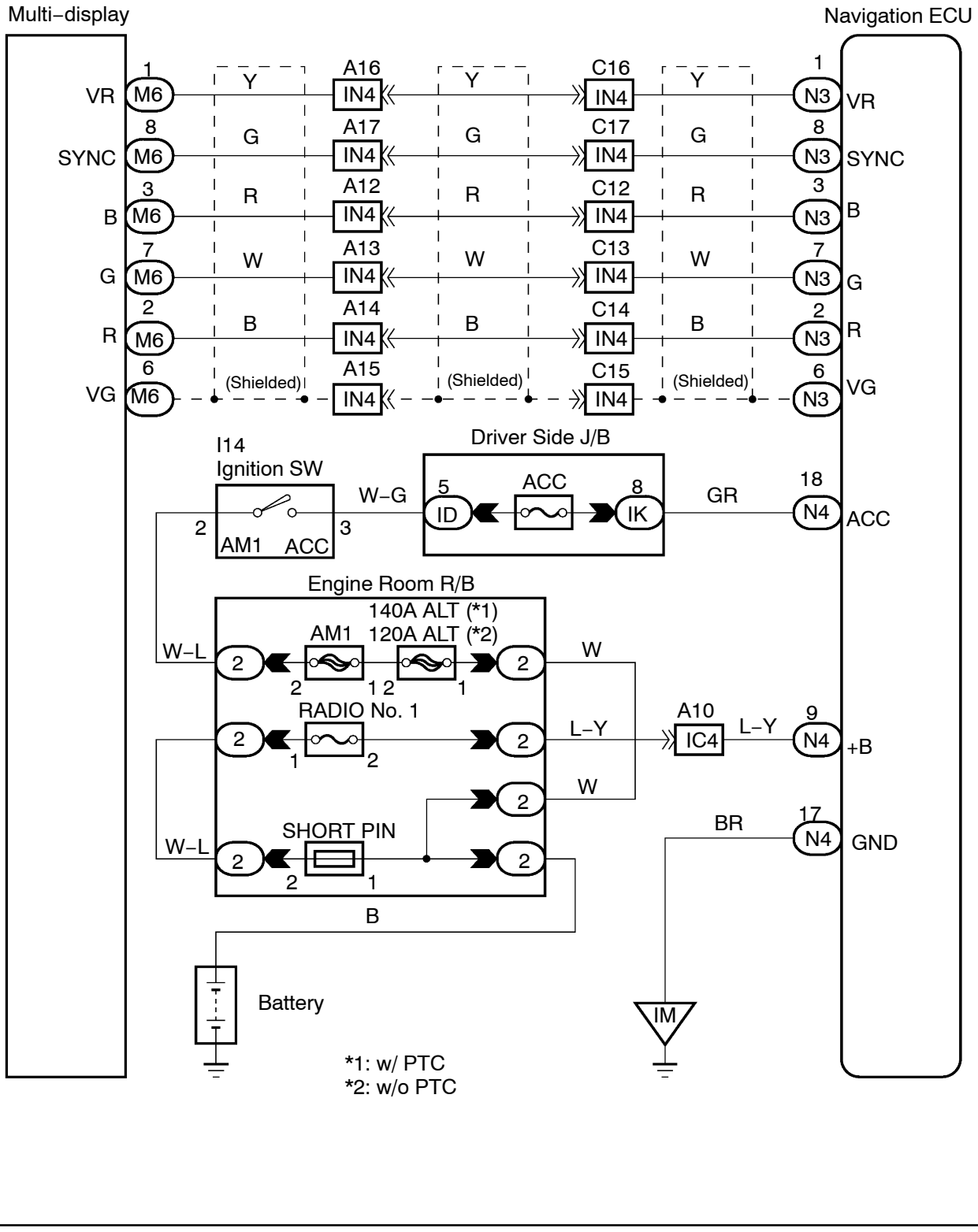
LHD Models:



C

I33633

RHD Models:



C

I33634

INSPECTION PROCEDURE

1	DISPLAY CHECK MODE(COLOR BAR CHECK)

(a) Perform display 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 MULTI–DISPLAY (CRT DISPLAY) DISPLAY**

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)

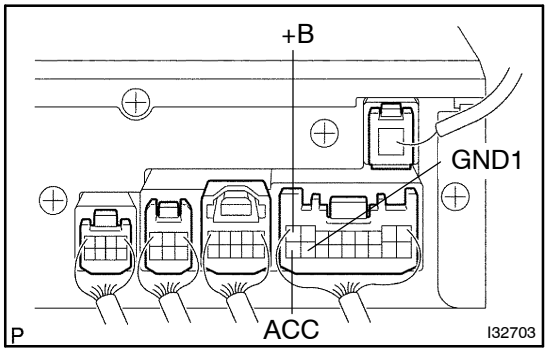
(a) Check the color settings of each daytime screen/night screen at the ”Navigation setting” on the menu.
Standard: Color setting is normally

NG → **CHECK AND REPLACE NAVIGATION ECU**

OK

NORMAL

4 INSPECT NAVIGATION ECU(+B, ACC, 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 conditions, as shown in the chart.

Standard:

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

(c) Check continuity.

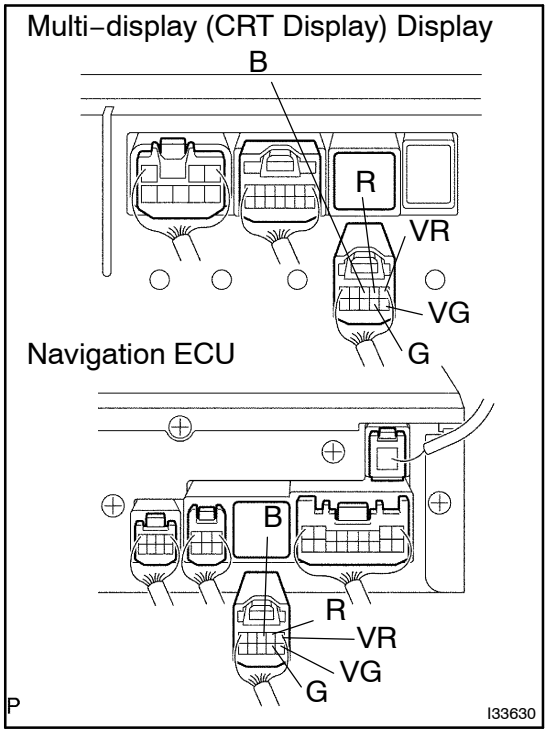
(1) Check that the continuity exists between terminal GND1 of navigation ECU and body ground.

Standard: Continuity exists.

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

OK

5 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.

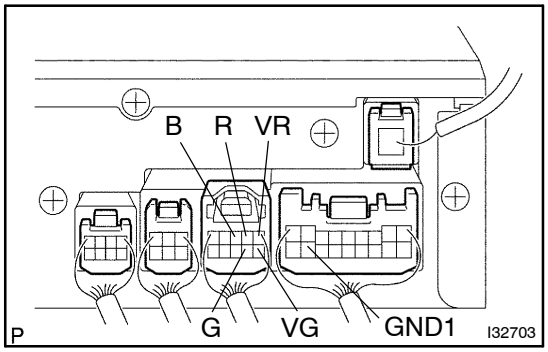
Standard:

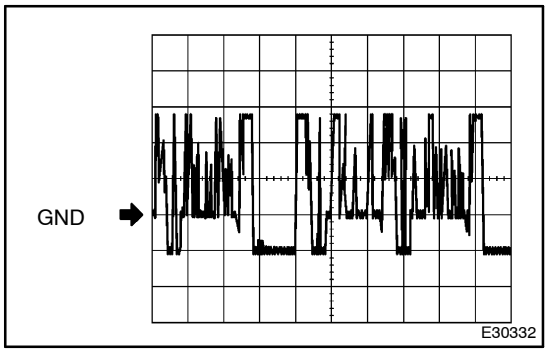
Tester connection	Specified condition
R – R	Continuity
G – G	Continuity
B – B	Continuity
VR – VR	Continuity
VG – VG	Continuity
R – Body ground	No continuity
G – Body ground	No continuity
B – Body ground	No continuity
VR – Body ground	No continuity
VG – Body ground	No continuity

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

OK

6	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	Constant	Continuity
VG ⇔ Body ground	Constant	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 → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

CHECK AND REPLACE MULTI–DISPLAY (CRT DISPLAY) DISPLAY