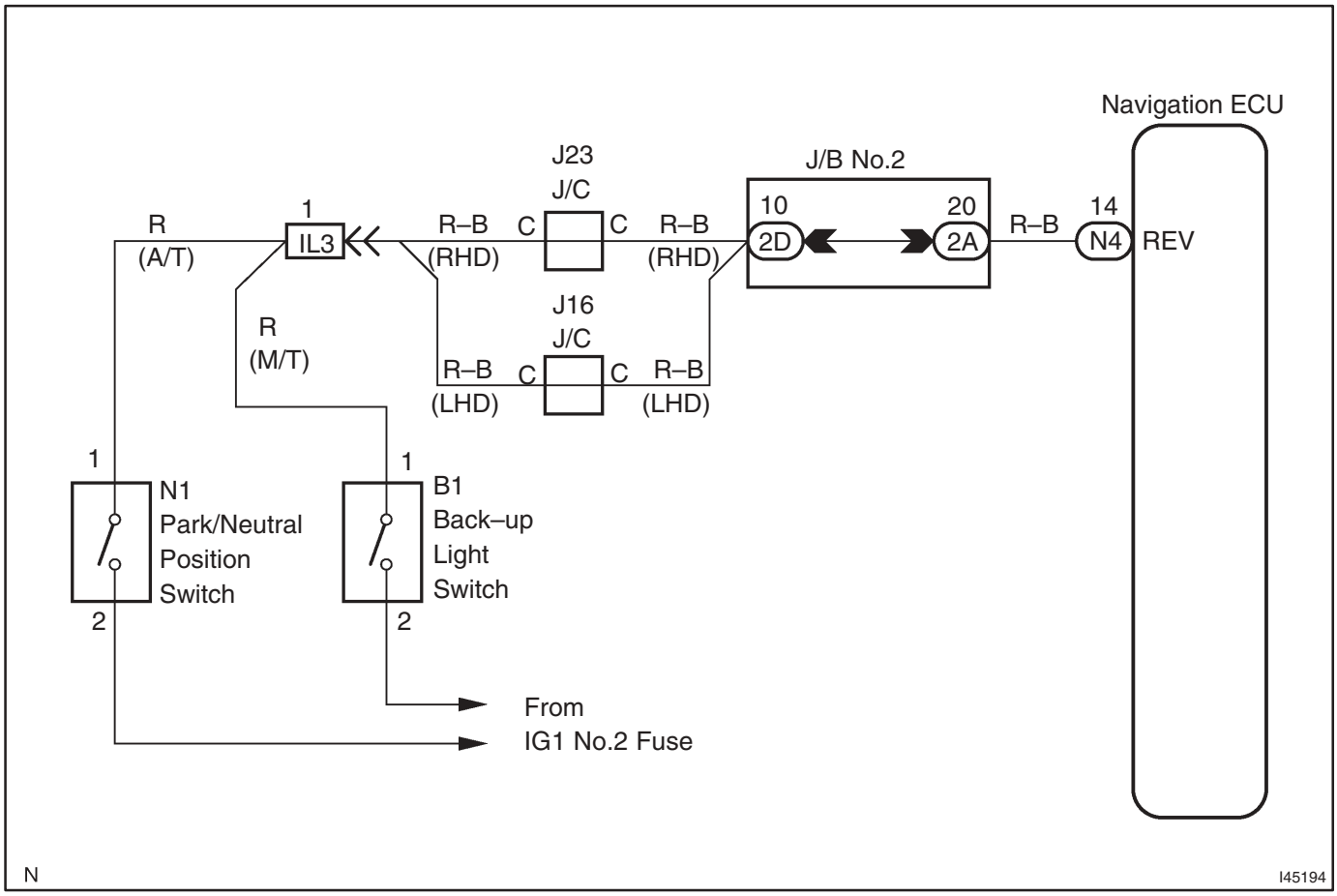
REVERSE SIGNAL CIRCUIT

CIRCUIT DESCRIPTION

The navigation ECU receives a reverse signal from the park/neutral position switch (A/T) or back–up lamp switch (M/T) and information about the GPS antenna, and then adjusts vehicle position.

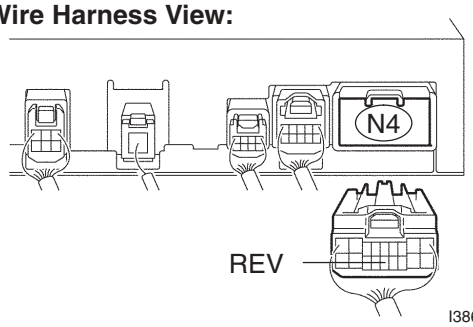
WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT NAVIGATION ECU

Wire Harness View:



(a) Disconnect the navigation ECU connector N4.

(b) Measure the resistance according to the value(s) in the table below.

Standard:

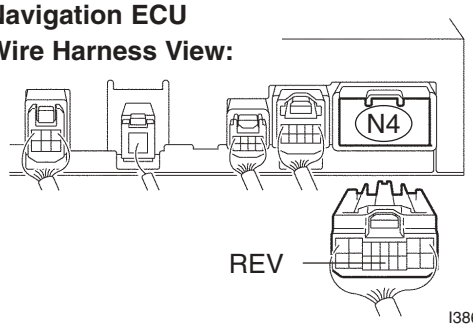
Tester connection	Condition	Specified condition
REV – Body ground	Ignition switch is ON. Shift lever is moved to R position.	10 to 14 V
REV – Body ground	Ignition switch is ON. Shift lever is moved to any position except R.	Below 1 V

OK → **REPLACE NAVIGATION ECU (SEE PUB. NO. RM990E, PAGE 67–22)**

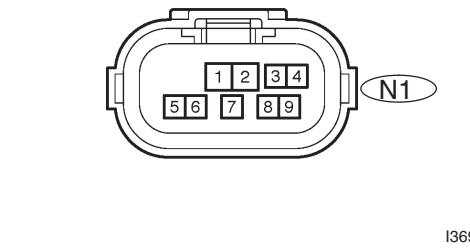
NG

2 CHECK HARNESS AND CONNECTOR(NAVIGATION ECU – PARK/NEUTRAL POSITION SWITCH OR BACK–LAMP SWITCH)

Navigation ECU
Wire Harness View:



Park/Neutral Position Switch (A/T)
Connector Front View:



(a) Disconnect the navigation ECU connector N4 and park/neutral position switch connector N1 or back–up lamp switch connector B1.

(b) Measure the resistance according to the value(s) in the table below.

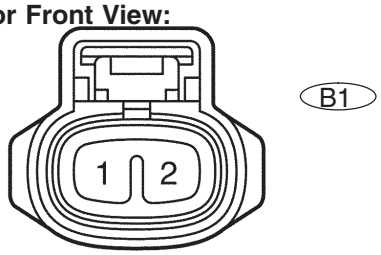
Standard:

Tester connection	Condition	Specified condition
REV – N1–1 (*1)	Always	Below 1 Ω
REV – B1–1 (*2)	Always	Below 1 Ω
REV – Body ground	Always	10 kΩ or higher

*1: A/T

*2: M/T

Back–up Lamp Switch (M/T)
Connector Front View:



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

OK

3 CHECK TYPE

(a) Choose type to be inspected.

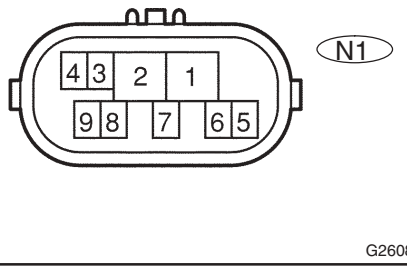
Type	Go to step
A/T	A
M/T	B

B → **Go to step 5**

A

4 INSPECT PARK/NEUTRAL POSITION SWITCH

Park/Neutral Position Switch:



(a) Disconnect the park/neutral position switch connector N1.
(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
N1–1 – N1–2	Shift lever is moved to R position.	Below 1 Ω
N1–1 – N1–2	Shift lever is moved to any position except R.	10 kΩ or higher

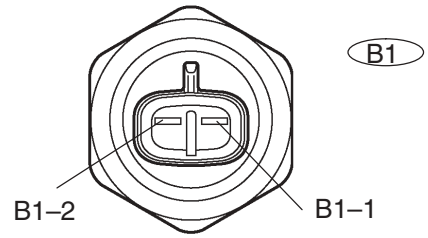
NG → **REPLACE PARK/NEUTRAL POSITION SWITCH**

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR

5 INSPECT BACK–UP LAMP SWITCH

Back–up Lamp Switch:



(a) Disconnect the back–up lamp switch connector B1.
(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
B1–1 – B1–2	Shift lever is moved to R position.	Below 1 Ω
B1–1 – B1–2	Shift lever is moved to any position except R.	10 kΩ or higher

NG → **REPLACE BACK–UP LAMP SWITCH**

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR