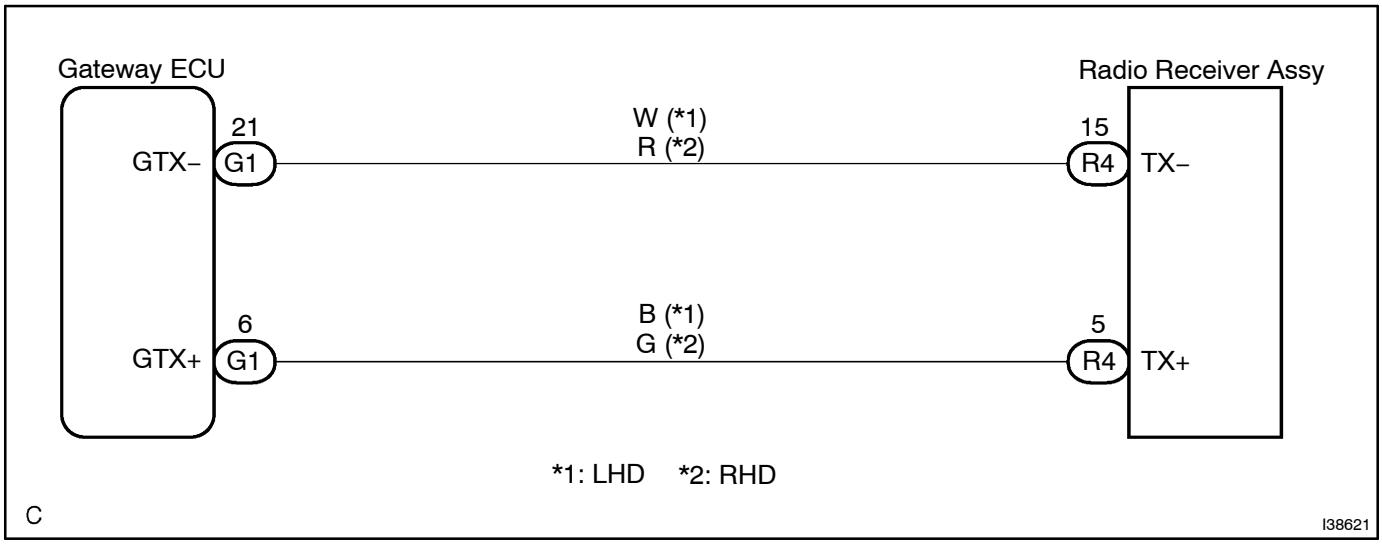
AVC–LAN CIRCUIT (RADIO RECEIVER ASSY – GATEWAY ECU)

CIRCUIT DESCRIPTION

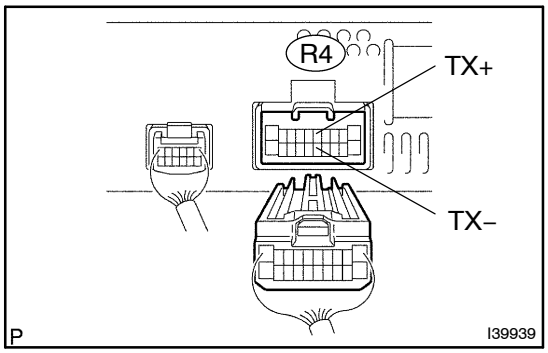
Each unit of the navigation system connected to AVC–LAN (communication bus) communicates by transferring the signals from each switch.
When +B short and GND short occur in this AVC–LAN, navigation system will not function normally as communication is discontinued.
In AVC–LAN, multi–display becomes the communication master, and the radio receiver assy has enough resistance necessary for transmitting the communication.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT RADIO RECEIVER ASSY



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

Standard:

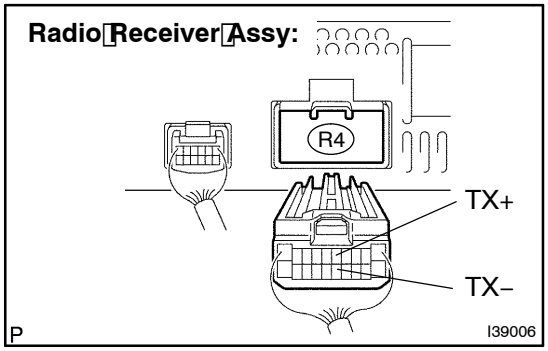
Tester connection	Condition	Specified condition
TX+ – TX–	Always	60 to 80 Ω

NG → **REPLACE RADIO RECEIVER ASSY (SEE PAGE 67–5)**

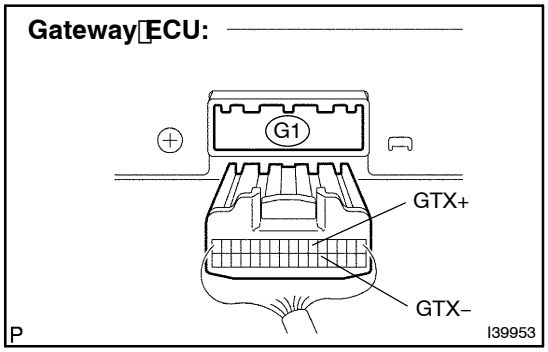
OK

2 CHECK HARNESS AND CONNECTOR(RADIO RECEIVER ASSY – GATEWAY ECU)

Radio Receiver Assy:



Gateway ECU:



(a) Disconnect the connector from the radio receiver assy R4 and gateway ECU G1.

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

Standard:

Tester connection	Condition	Specified condition
TX+ – GTX+	Always	Below 1 Ω
TX– – GTX–	Always	Below 1 Ω
TX+ – Body ground	Always	10 kΩ or higher
TX– – Body ground	Always	10 kΩ or higher

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

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN DIAGNOSTIC TROUBLE CODE CHART (SEE PAGE 05–1788)