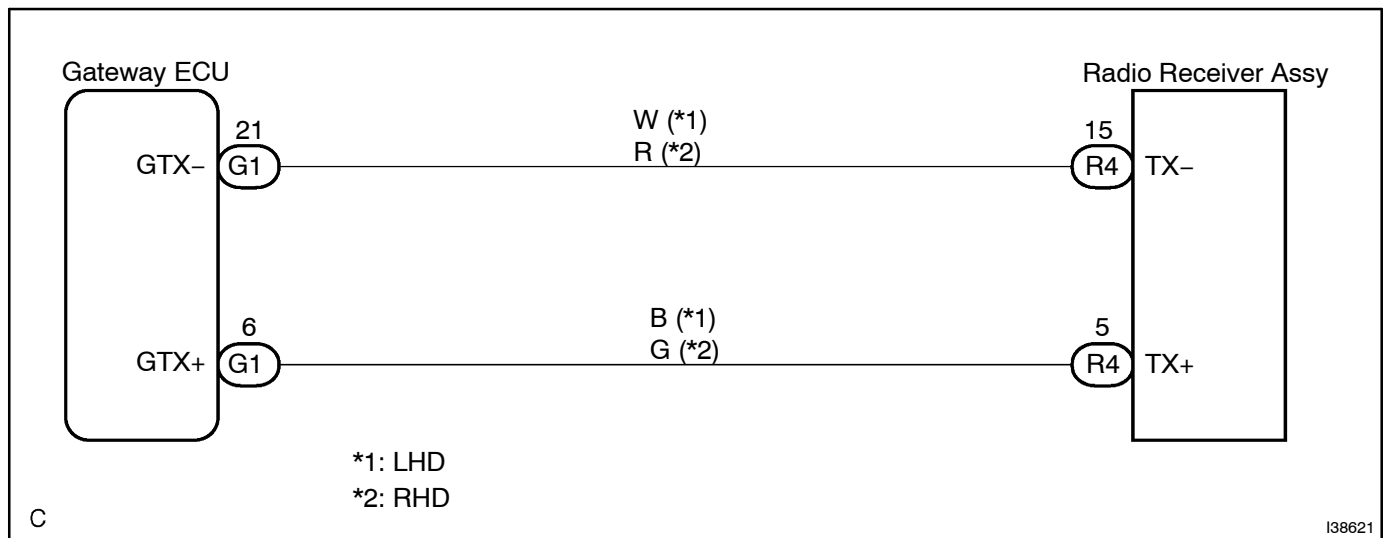# AVC−LAN CIRCUIT (RADIO RECEIVER ASSY − GATEWAY ECU)

CIRCUIT DESCRIPTION

Each unit of the radio receiver assy 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, radio receiver assy system will not function normally as communication is discontinued.
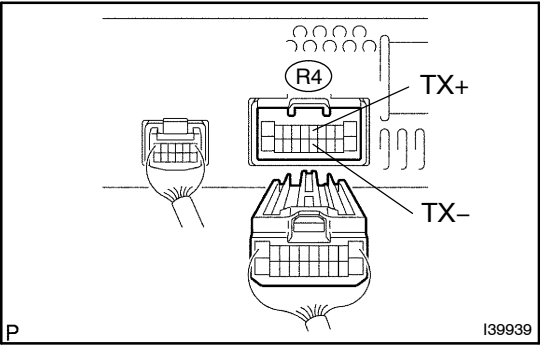
In AVC−LAN, radio receiver assy becomes the communication master, and the radio receiver assy has enough resistance necessary for transmitting the communication.

WIRING DIAGRAM

Gateway ECU

Radio Receiver Assy

21
GTX− G1

W (*1)
R (*2)

15
R4 TX−

6
GTX+ G1

B (*1)
G (*2)

5
R4 TX+

*1: LHD
*2: RHD

C

I38621

INSPECTION PROCEDURE

1	INSPECT RADIO RECEIVER ASSY

I39939

(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:
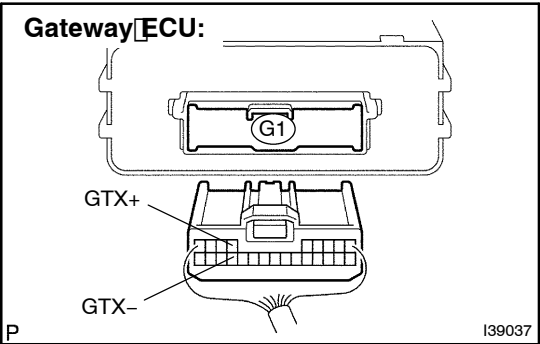

I39006

Gateway ECU:

I39037
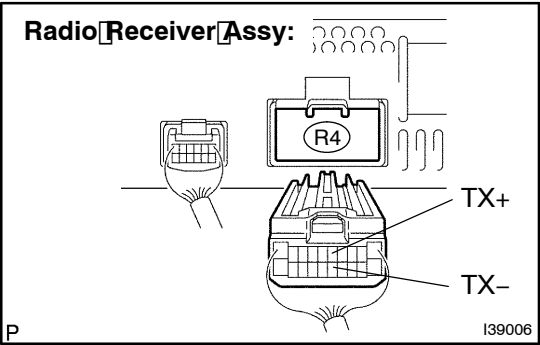
(a) Disconnect the connector from the radio receiver assy R4 and gateway ECU G1.

(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 05−1673)