DICCA–03

AVC–LAN (Communication bus) Circuit

CIRCUIT DESCRIPTION

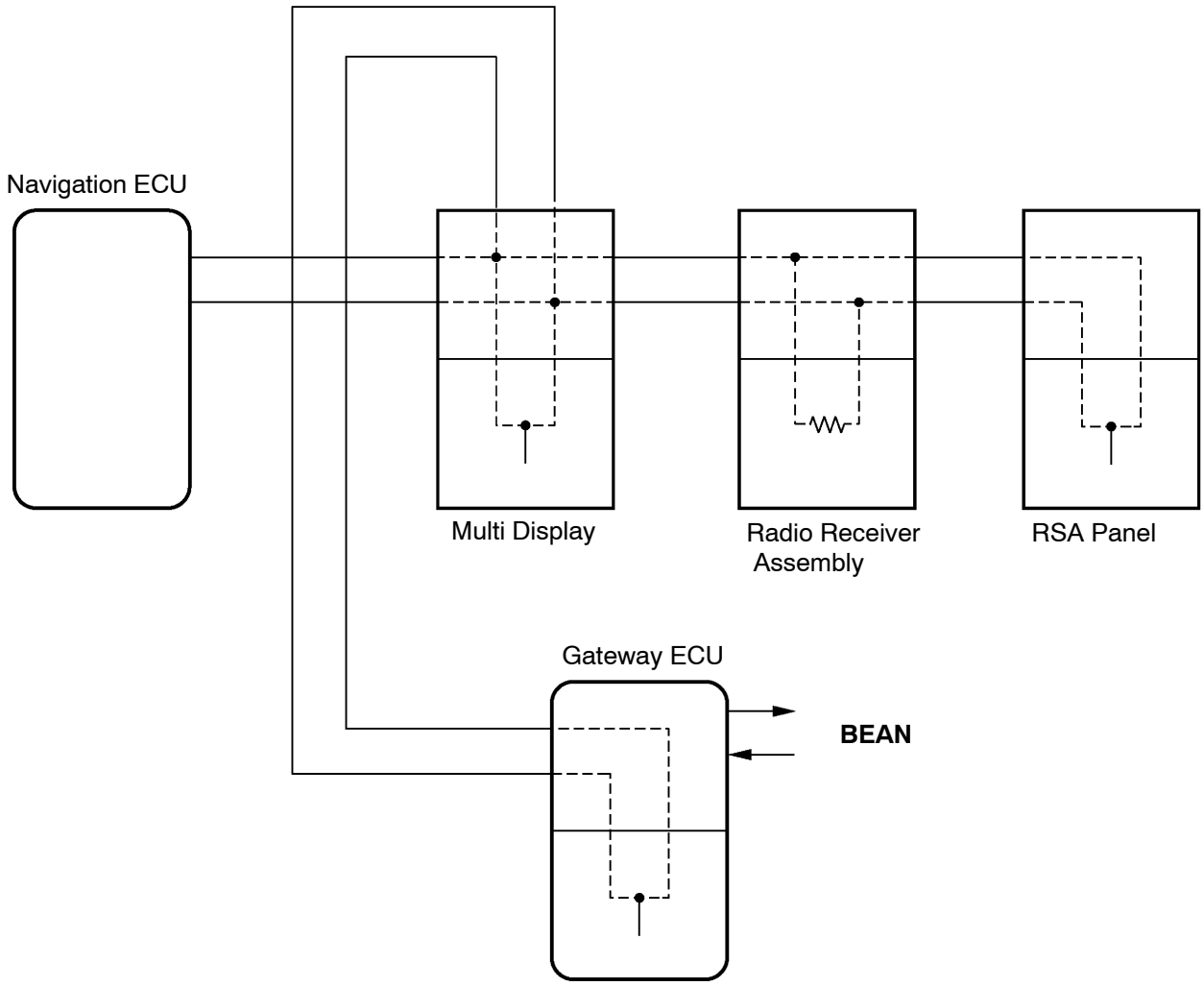
Each unit of navigation system connected with AVC–LAN (communication bus) transfers the signal of each switch by communication.

When +B short and GND short occur in this AVC–LAN, navigation system will not function normally as the communication is discontinued.

In this AVC–LAN, multi display becomes the master of the communication, and the radio receiver assembly has a terminator necessary for transmitting the communication.

The multi display is connected between navigation ECU and radio receiver assembly, and navigation system has the structure that makes communication impossible without navigation ECU, multi display or radio receiver assembly.

AVC–LAN



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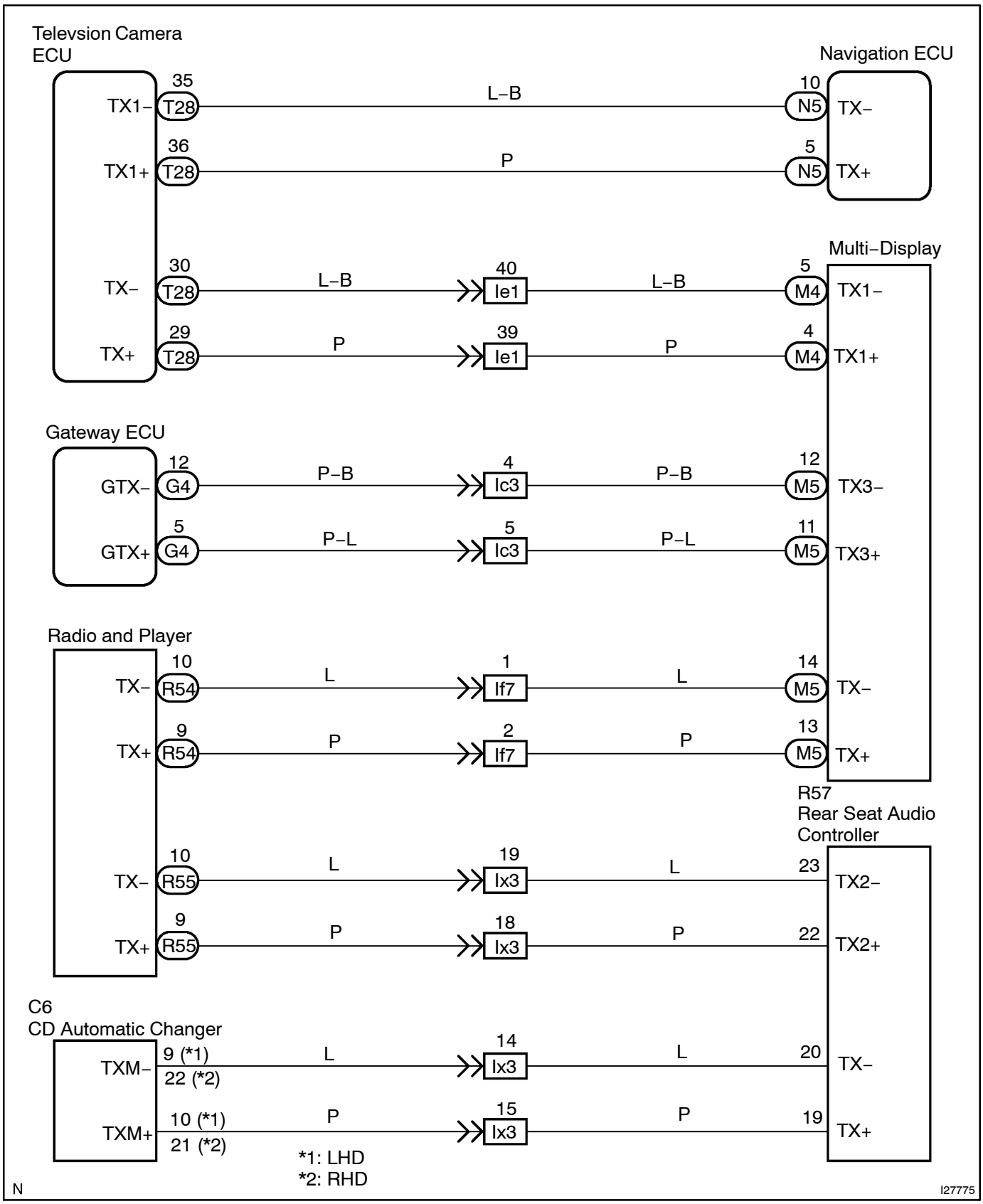
WIRING DIAGRAM



INSPECTION PROCEDURE

1	**Disconnect the connector ”R39” of RSA panel and check if AVC–LAN will be recovered normally.**

CHECK:

Check that the display will change by pressing either of the Panel switch or Touch switch on the display.

HINT:

It can be judged that AVC–LAN is recovered if the display is changed.

OK → **Replace the RSA panel.**

NG

2	**Check wire harness and connector between radio receiver assembly and RSA panel (See page IN–38).**

NG → **Repair or replace wire harness or connector.**

OK

3	**Disconnect the ”N3” connector of the navigation ECU, check if AVC–LAN will be recovered normally.**

CHECK:

Check that the display will change by pressing either of the Panel switch or Touch switch on the display.

HINT:

It can be judged that AVC–LAN is recovered if the display is changed.

OK → **Replace the stereo navigation ECU.**

NG

4	**Check wire harness and connector between navigation ECU and multi–display (See page IN–38).**

NG → **Repair or replace wire harness or connector.**

OK

5	**Disconnect the connector "G4" of gateway ECU and check if AVC–LAN will be recovered normally.**

CHECK:

Check that the display will change by pressing either of the Panel switch or Touch switch on the display.

HINT:

It can be judged that AVC–LAN is recovered if the display is changed.

OK → **Replace the gateway ECU.**

NG

6	**Check wire harness and connector between multi display and gateway ECU. (See page IN–38)**

NG → **Repair or replace wire harness or connector.**

OK

7	**Skip multi display and check AVC–LAN.**

PREPARATION:

(a) Connect all the connectors except "M5" and "M6" of the multi display.

(b) Using 2 SST (Diagnosis check wire P/N 09893–12040), connect the terminal TX1+ of connector "M5" and TX+ of connector "M6", the terminal TX1– of connector "M5" and TX– of connector "M6" respectively of multi–display.

CHECK:

Operate audio head unit (CD, Cassette tape, etc.) and check that the sound comes out from the speaker. (Check that AVC–LAN is recovered.)

OK → **Replace the multi display.**

NG

8	**Skip television camera ECU and check AVC–LAN.**

PREPARATION:

(a) Connect multi display connector.
(b) Disconnect the connector ”T21” of the television camera ECU.
(c) Using SST (Diagnosis check wire P/N 09893–12040), connect the terminal TX1+ and TX+ of connector ”T21”, the terminal TX– of connector and TX1– of connector ”T21” respectively of multi–display.

CHECK:

Operate audio head unit (CD, Cassette tape, etc.) and check that the sound comes out from the speaker. (Check that AVC–LAN is recovered.)

OK → **Replace the television camera ECU.**

NG

9	**Skip Audio head unit and check AVC–LAN.**

PREPARATION:

(a) Connect television camera ECU connector.
(b) Disconnect Audio head unit ”R38” connector.
(c) Using SST (Navigation Check Wire P/N 09843–18050), connect the terminal TX+ to terminal TX– of ”R38” connector of radio receiver assembly.

CHECK:

Operate the panel switch and the touch switch of the display and check that the navigation functions. (Check that AVC–LAN is recovered.)

OK → **Replace the radio receiver assembly.**

NG

Replace the navigation ECU.