

CIRCUIT INSPECTION

AVC-LAN (Communication bus) Circuit

CIRCUIT DESCRIPTION

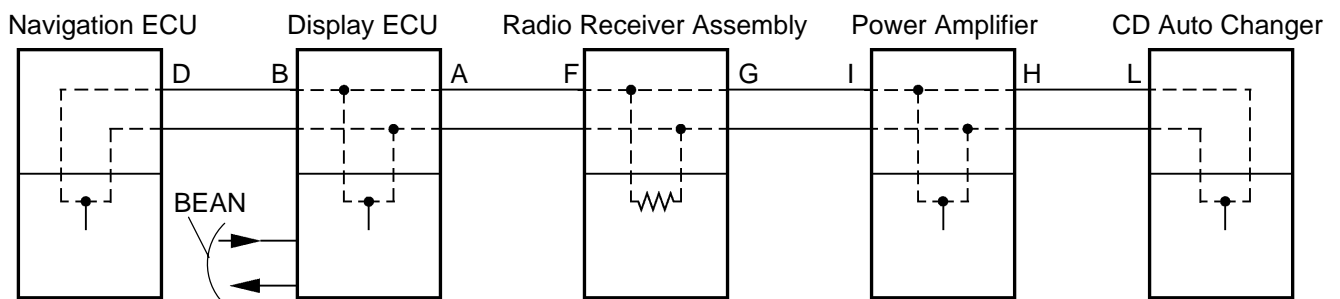
Each unit of LEXUS navigation system connected with AVC-LAN (communication bus) transfers the signal of each switch by communication.

In the case that this AVC-LAN has +B short and GND, LEXUS navigation system will not function normally as the communication is discontinued.

In this AVC-LAN, Navigation ECU, becomes the master of the communication, and the audio head unit has a resistance necessary for transmitting the communication.

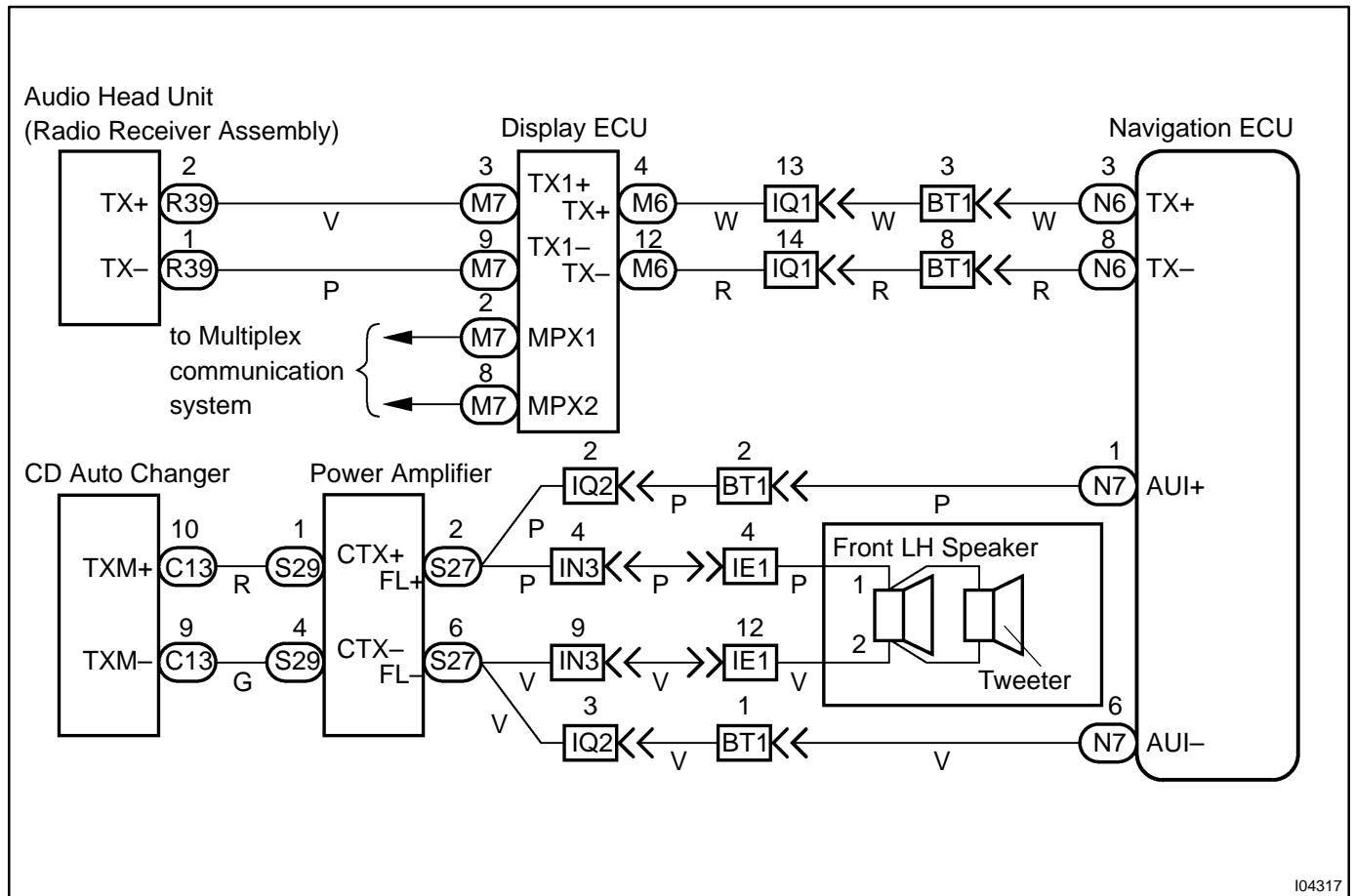
Display ECU is connected between them, It has the structure that makes communication impossible without Navigation ECU, Display ECU or Audio head unit.

AVC-LAN



I04236

WIRING DIAGRAM



I04317

INSPECTION PROCEDURE

1	Disconnect the connector of CD auto changer and check if AVC-LAN will be recovered normally.
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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 CD auto changer.

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| 2 | Disconnect the "H" connector of the Amplifier, check if AVC-LAN will be recovered normally. |
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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

Repair or replace wire harness or connector between amplifier and CD auto changer.

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| 3 | Disconnect the "I" connector of the Amplifier, check if AVC-LAN will be recovered normally. |
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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 amplifier.

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| 4 | Disconnect the "G" connector of the Audio head unit, check if AVC-LAN will be recovered normally. |
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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

Repair or replace wire harness or connector between Audio head unit and amplifier.

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- 5 Check wire harness and connector between Audio head unit and Display ECU.**
(See page [IN-30](#))

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Repair or replace wire harness or connector between Audio head unit and Display ECU.

OK

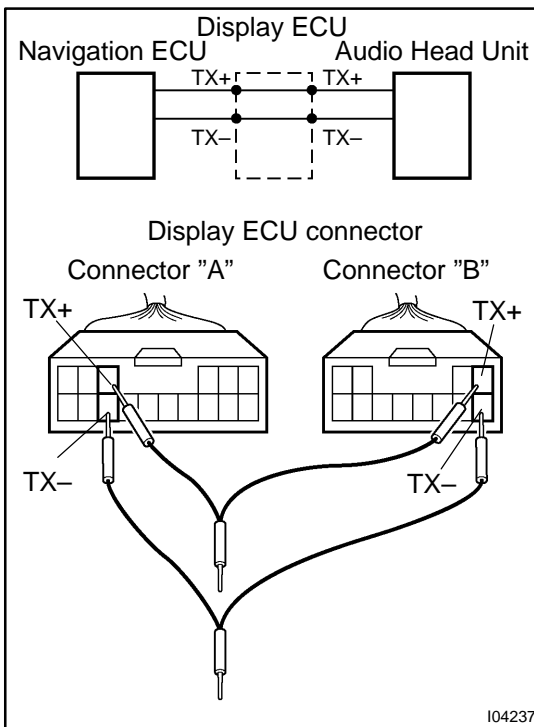
- 6 Check wire harness and connector between Display ECU and Navigation ECU.**
(See page [IN-30](#))

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Repair or replace wire harness or connector between Display ECU and Navigation ECU.

OK

- 7 Skip Display ECU and check AVC-LAN.**

**PREPARATION:**

- Connect all the connectors except "A" and "B" of the Display ECU.
- Using 2 SSTs (Diagnosis check wire P/N 09893-12040), short TX1+ ↔ TX+ and TX1- ↔ TX- of "A" and "B" connectors of Display ECU.

CHECK:

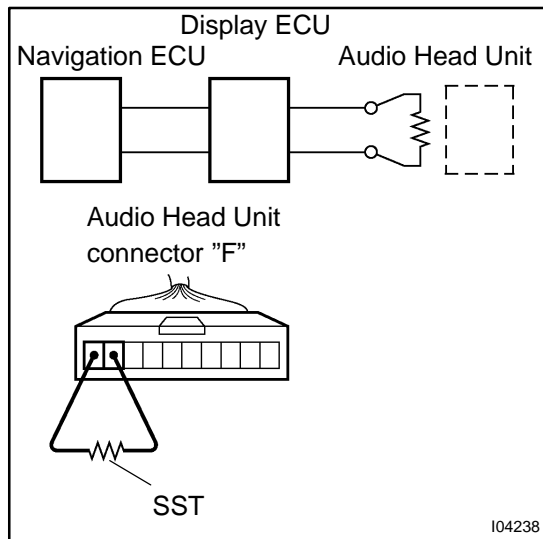
Operate Audio head unit (CD, Cassette tape, etc.) and check that the sound comes out from the speaker.
(Check that AVC-LAN is recovered.)

OK

Replace the Display ECU.

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8 Skip Audio head unit and check AVC-LAN.



PREPARATION:

- Connect Display ECU connector.
- Disconnect Audio head unit "F" connector.
- Using SST (Navigation Check Wire P/N 09843-18050), short TX+ ↔ TX- of "F" connector of Audio head unit.

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 Audio head unit.

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Replace the Navigation ECU.