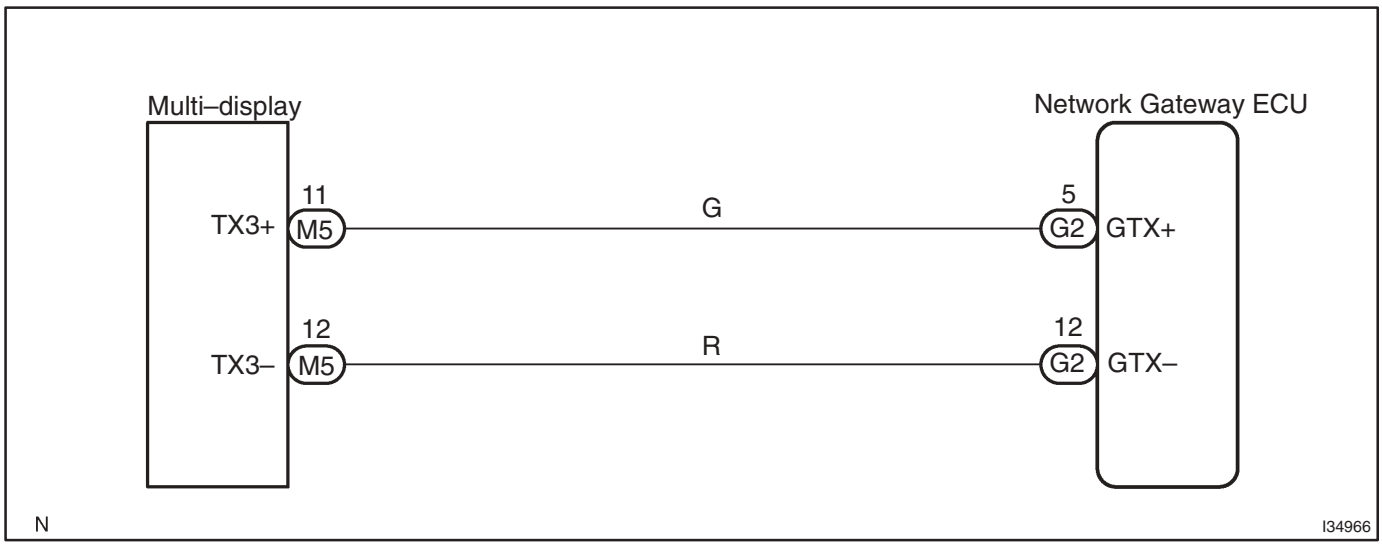
AVC–LAN CIRCUIT (NETWORK GATEWAY ECU – MULTI–DISPLAY)

CIRCUIT DESCRIPTION

Each unit of the navigation system connected to the AVC–LAN (communication bus) communicates by transferring the signals from each switch.
When a short to +B or short to ground occurs in this AVC–LAN, the navigation system will not function normally as communication is discontinued.
In this AVC–LAN, the multi–display becomes the communication master, and the radio receiver assy has enough resistance necessary for transmitting the communication.
The navigation system has the structure that makes communication impossible without the navigation ECU, multi–display or radio receiver assy.

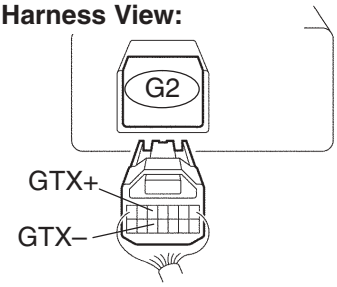
WIRING DIAGRAM



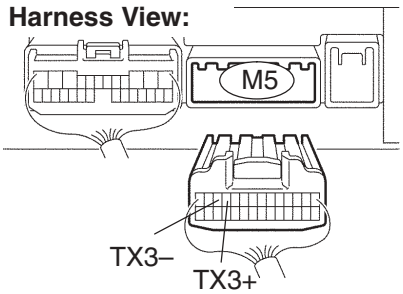
INSPECTION PROCEDURE

1	CHECK HARNESS AND CONNECTOR(NETWORK GATEWAY ECU – MULTI–DISPLAY)

Network Gateway ECU Wire Harness View:



Multi–display Wire Harness View:



(a) Disconnect the network gateway ECU connector G2 and multi–display connector M5.

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

Standard:

Tester connection	Condition	Specified condition
GTX+ – TX3+	Always	Below 1 Ω
GTX– – TX3–	Always	Below 1 Ω
GTX+ – Body ground	Always	10 kΩ or higher
GTX– – 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 05–1322)