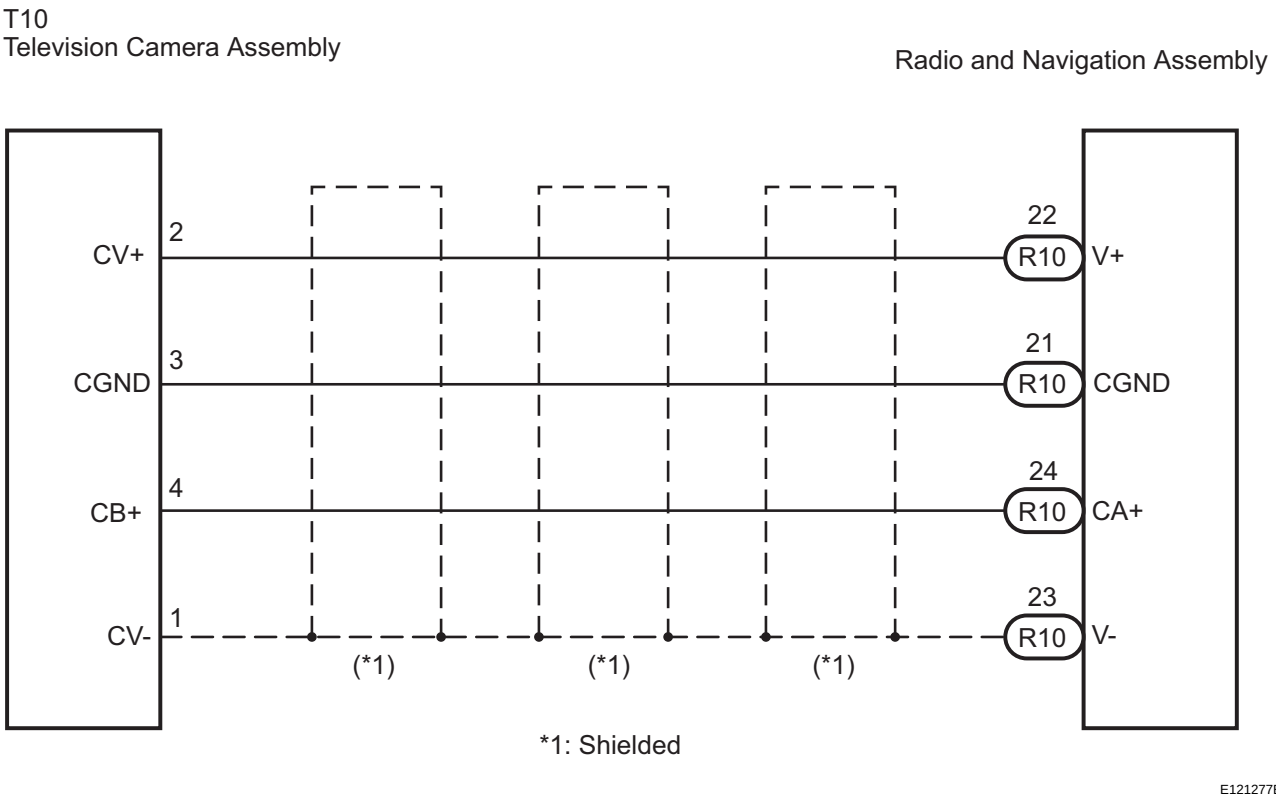
Display Signal Circuit between Radio and Navigation Assembly and Television Camera Assembly

DESCRIPTION

This is the display signal circuit of the television camera assembly.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	**CHECK HARNESS AND CONNECTOR (RADIO AND NAVIGATION ASSEMBLY - TELEVISION CAMERA ASSEMBLY)**

(a) Disconnect the R10 connector from the radio and navigation assembly.
(b) Disconnect the T10 connector from the television camera assembly.

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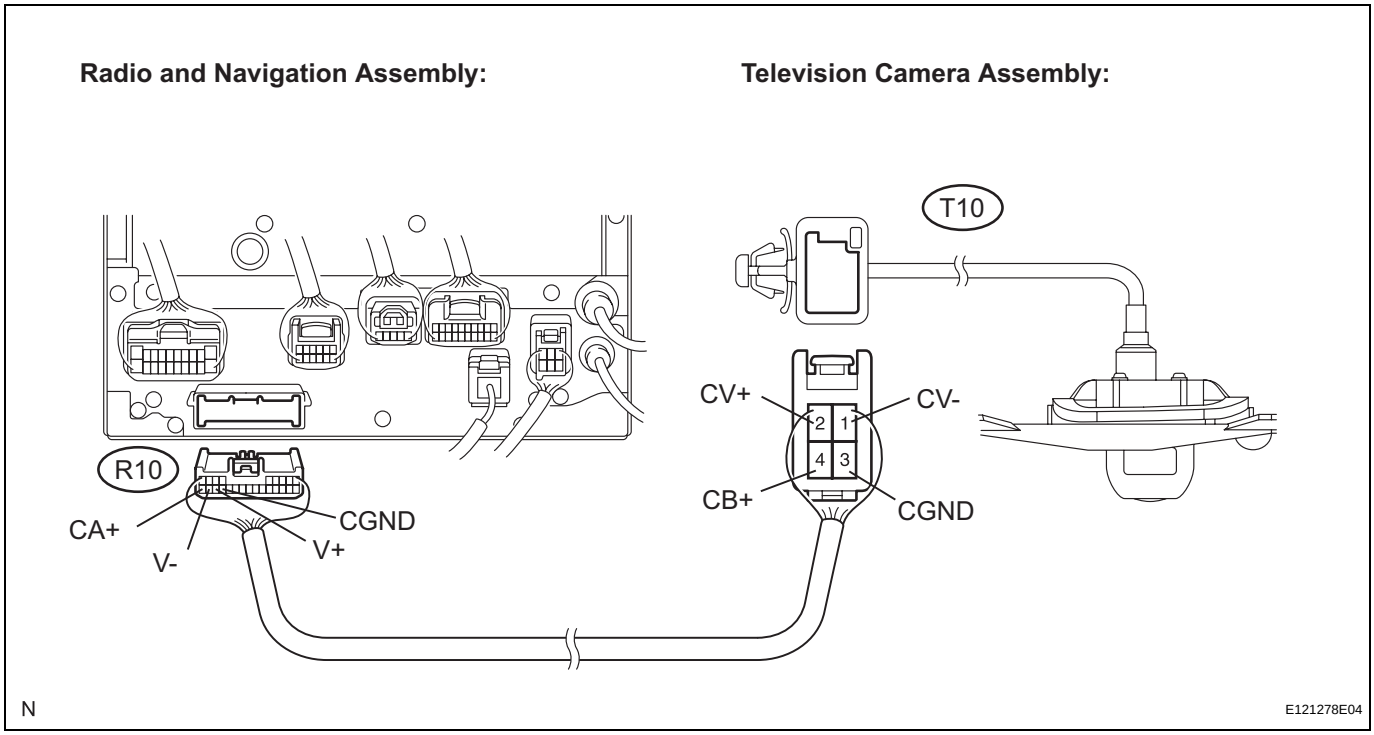

(c) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester connection (Terminal No.)	Condition	Specified condition
CB+ (T10-4) - CA+ (R10-24)	Always	Below 1 Ω
CGND (T10-3) - CGND (R10-21)	Always	Below 1 Ω
CV+ (T10-2) - V+ (R10-22)	Always	Below 1 Ω
CV- (T10-1) - V- (R10-23)	Always	Below 1 Ω
CB+ (T10-4) - Body ground	Always	10 kΩ or higher
CGND (T10-3) - Body ground	Always	10 kΩ or higher
CV+ (T10-2) - Body ground	Always	10 kΩ or higher
CV- (T10-1) - Body ground	Always	10 kΩ or higher

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

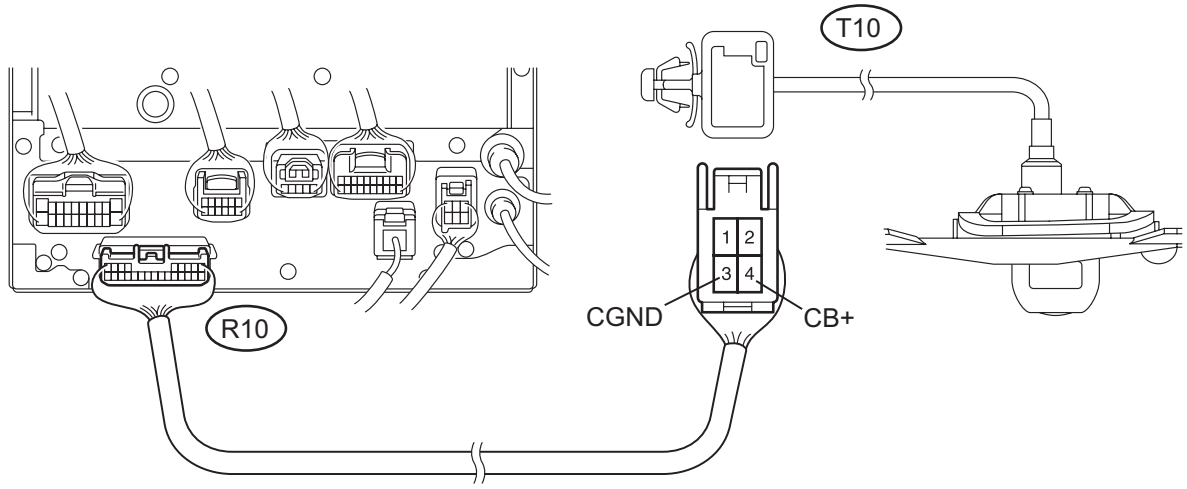
OK

2	INSPECT RADIO AND NAVIGATION ASSEMBLY

(a) Reconnect the radio and navigation assembly R10 connector.

Radio and Navigation Assembly:

Television Camera Assembly Connector Front View:



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

Standard voltage

Tester connection	Condition	Specified condition
CB+ (T10-4) - CGND (T10-3)	Ignition switch ON Shift lever R position	Approx. 6 V

NG → **REPLACE RADIO AND NAVIGATION ASSEMBLY**

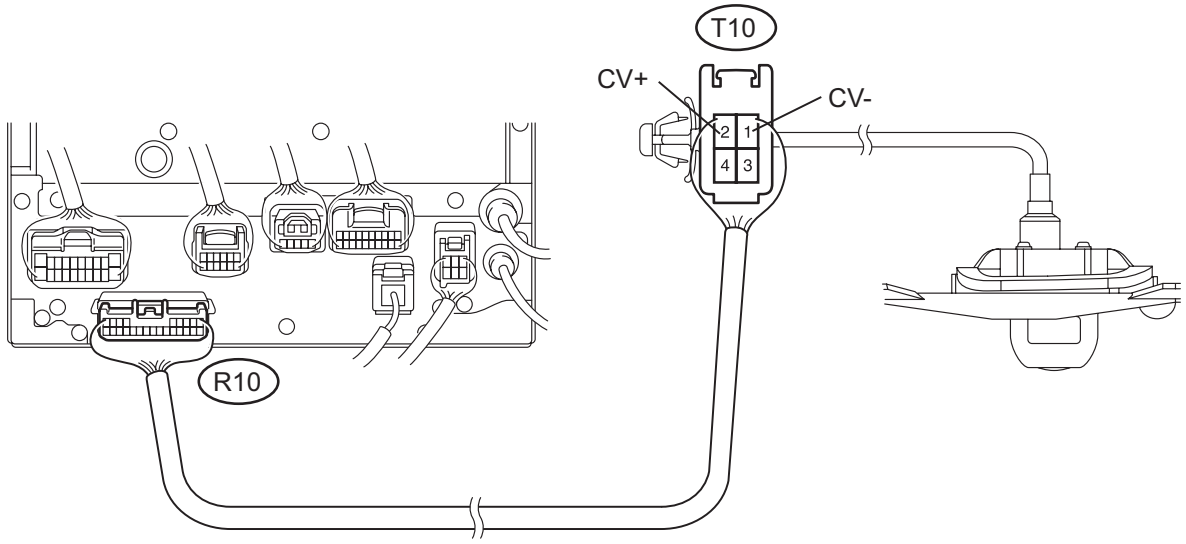
OK

3	INSPECT TELEVISION CAMERA ASSEMBLY

(a) Reconnect the radio and navigation assembly R10 connector and the television camera assembly T10 connector.

Radio and Navigation Assembly:

Television Camera Assembly:



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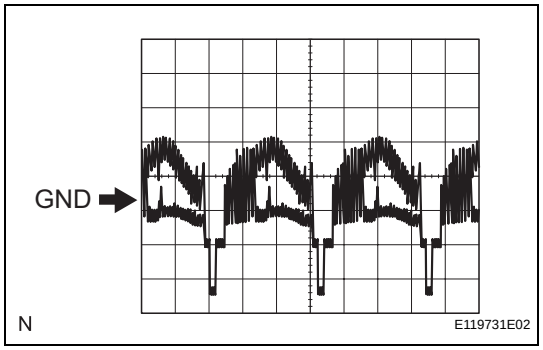

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(b) Check the waveform of the television camera assembly using an oscilloscope.

(1) Measurement terminal: CV+ - CV-
Measurement setting: 0.2 V/DIV, 0.2 μs/DIV
Condition: Ignition switch ON, Shift lever in R range
OK:
Pulses as shown in the illustration.

NG → **REPLACE TELEVISION CAMERA ASSEMBLY**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

PM