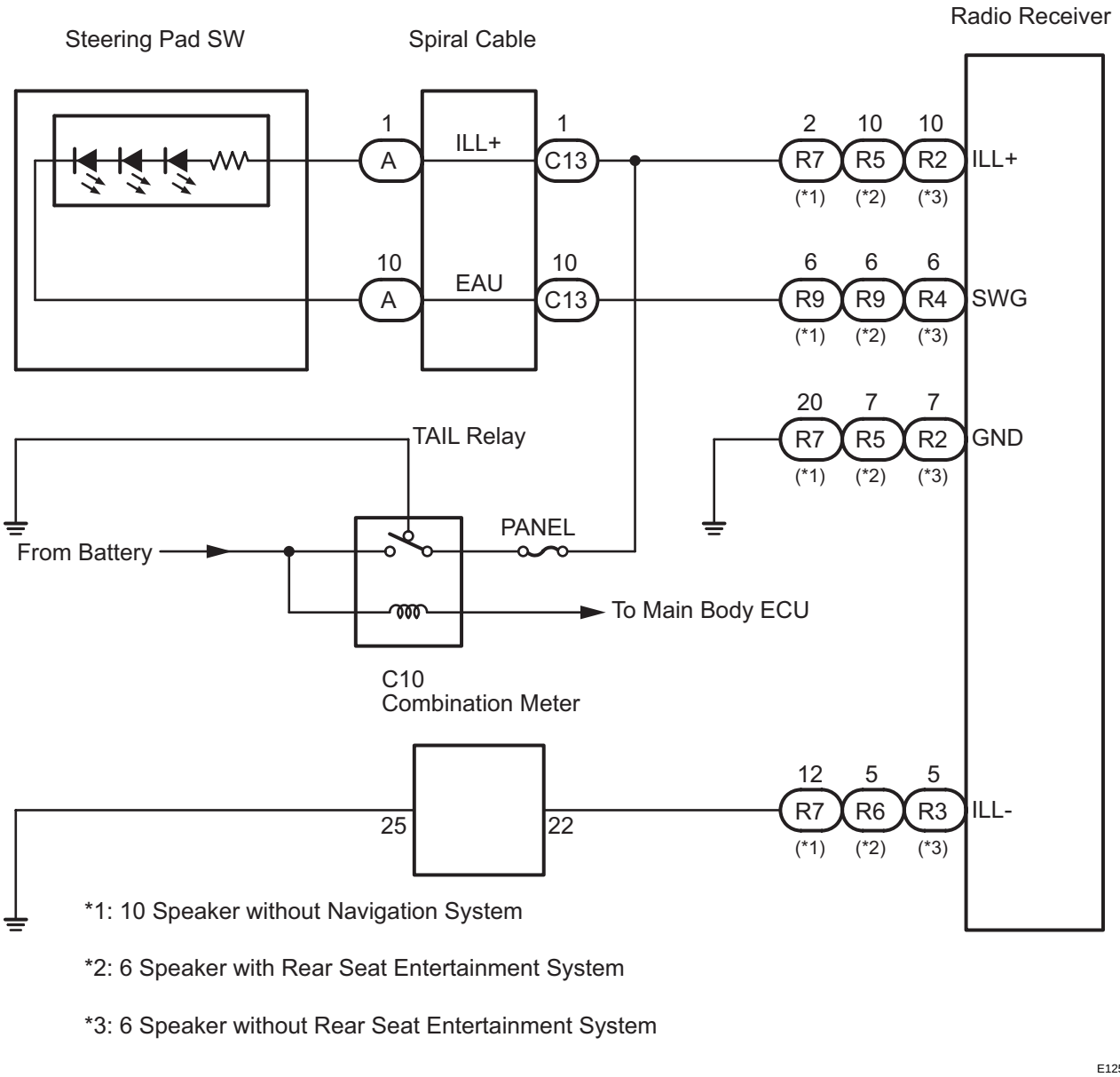
Illumination Circuit

DESCRIPTION

Power is supplied to the radio receiver and steering pad switch illumination when the light control switch is in the TAIL or HEAD position.

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

The vehicle is equipped with an SRS (Supplemental Restraint System) which includes components such as airbags. Before servicing (including removal or installation of parts), be sure to read the precautionary notice for the supplemental restraint system (See page RS-434).

1	CHECK ILLUMINATION

(a) Check if the illumination for the radio receiver, steering pad switch, glove box or others (hazard switch, cigarette lighter, etc.) comes on when the light control switch is turned to the HEAD or TAIL position.

Result

Result	Proceed to
Illumination comes on for all components except steering pad switch.	A
Illumination comes on for all components except radio receiver.	B
No illumination comes on (radio receiver, hazard switch, glove box, etc.).	C
Illumination comes on only for glove box and steering pad switch.	D

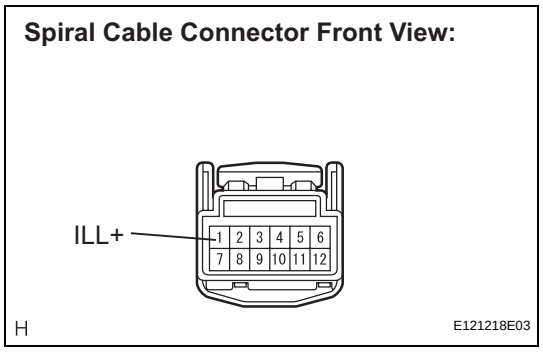
B → **Go to step 6**

C → **GO TO LIGHTING SYSTEM**

D → **GO TO COMBINATION METER SYSTEM**

A

2	CHECK HARNESS AND CONNECTOR (BATTERY - SPIRAL CABLE)



(a) Disconnect the spiral cable connector.
(b) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester connection	Condition	Specified condition
ILL+ - Body ground	Light control SW TAIL or HEAD	10 to 14 V

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

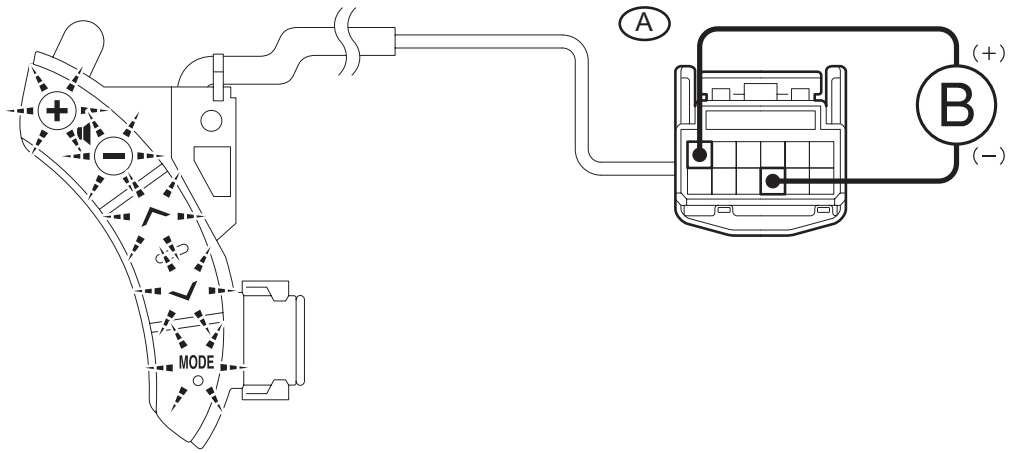
OK

3	INSPECT STEERING PAD SWITCH ASSEMBLY

(a) Disconnect the steering pad switch connector.
(b) Connect the positive (+) lead to terminal ILL+ and the negative (-) lead to terminal EAU of the steering pad switch assembly connector.

AV

Connector Front View:



(c) Check if the illumination for the steering pad switch assembly comes on.

OK:

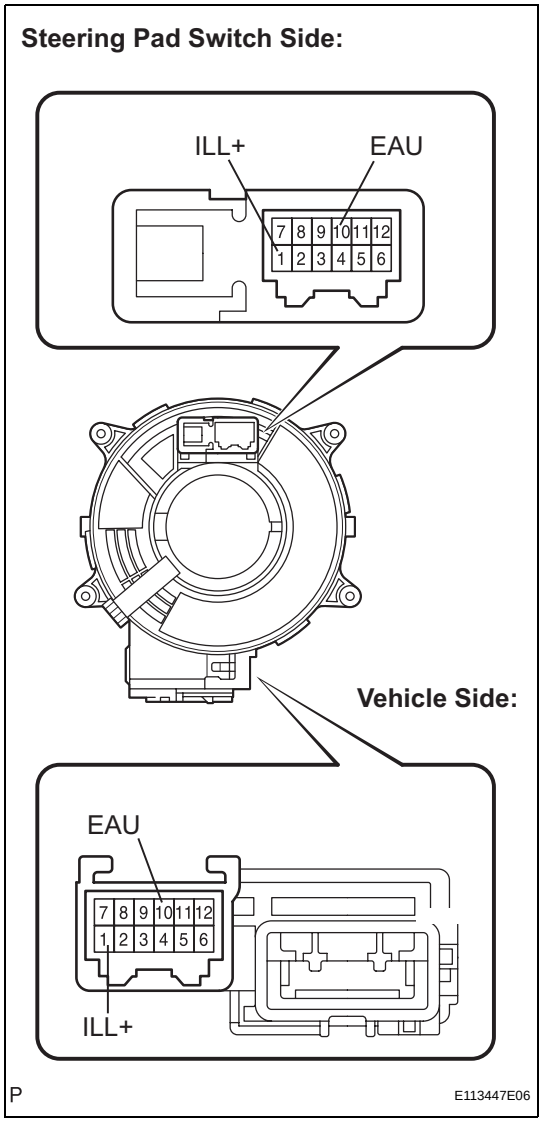
Illumination for the steering pad switch assembly comes on.

NG → **REPLACE STEERING PAD SWITCH LH**

OK

AV

4	INSPECT SPIRAL CABLE



(a) Disconnect the steering pad switch and and spiral cable connectors.

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

Standard resistance

Tester connection	Spiral Cable Position	Specified condition
EAU - EAU	Center	Below 1 Ω
	2.5 rotations to the left	
	2.5 rotations to the right	
ILL+ - ILL+	Center	Below 1 Ω
	2.5 rotations to the left	
	2.5 rotations to the right	

NOTICE:
The spiral cable is an important part of the SRS airbag system. Incorrect removal or installation of the spiral cable may prevent the airbag from deploying. Be sure to read the page shown in the brackets (See page RS-434).

NG → **REPLACE SPIRAL CABLE**

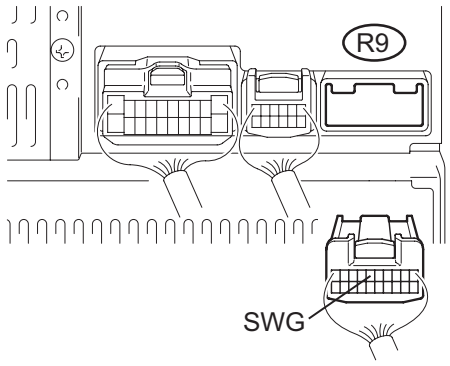
OK

AV

5	CHECK HARNESS AND CONNECTOR (SPIRAL CABLE - RADIO RECEIVER)

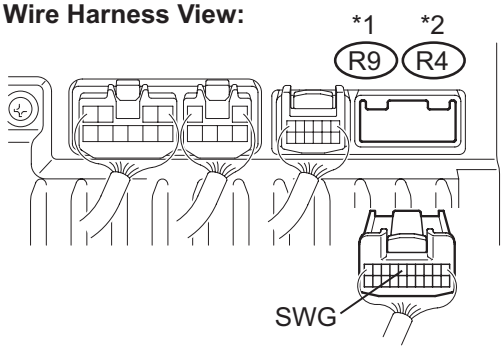
Radio Receiver (*1)

Wire Harness View:



Radio Receiver (*2) (*3)

Wire Harness View:



Spiral Cable Sub-assembly

Connector Front View:



P E120029E01

(a) Disconnect the connectors from the radio receiver and spiral cable.
(b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester connection	Condition	Specified condition
SWG - EAU	Always	Below 1 Ω
SWG - Body ground	Always	10 kΩ or higher

*1: 10 Speaker without Navigation System
*2: 6 Speaker with Rear Seat Entertainment System
*3: 6 Speaker without Rear Seat Entertainment System

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

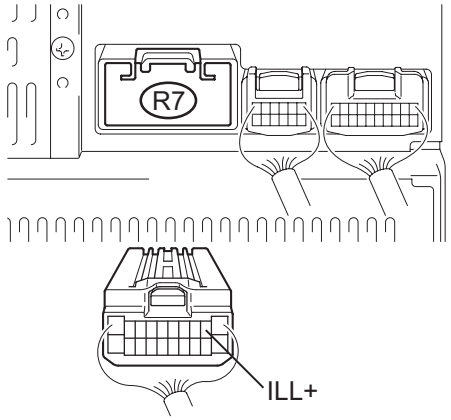
OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

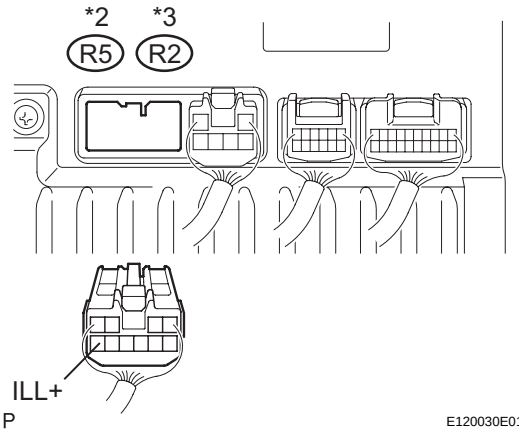
AV

6	CHECK HARNESS AND CONNECTOR (BATTERY - RADIO RECEIVER)

Wire Harness View: (*1)



Wire Harness View: (*2) (*3)



E120030E01

(a) Disconnect the radio receiver connector.
(b) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester connection	Condition	Specified condition
ILL+ - Body ground	Light control switch TAIL or HEAD	10 to 14 V

*1: 10 Speaker without Navigation System
*2: 6 Speaker with Rear Seat Entertainment System
*3: 6 Speaker without Rear Seat Entertainment System

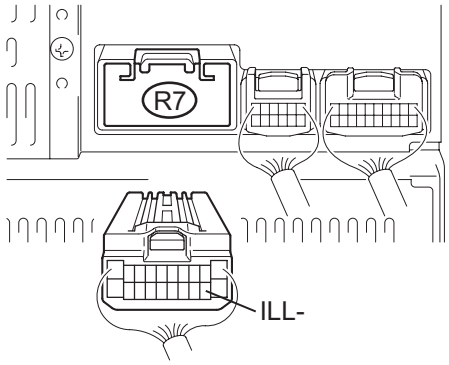
NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

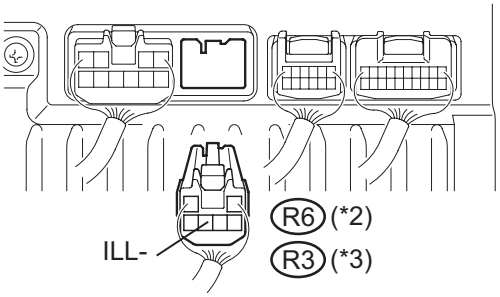
AV

7	CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - COMBINATION METER)

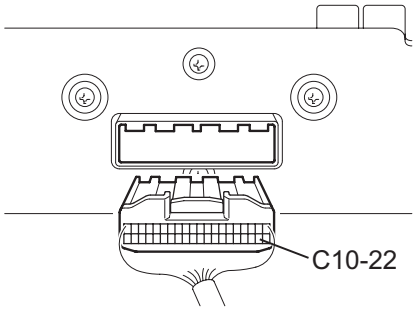
Radio Receiver (*1) Wire Harness View:



Radio Receiver (*2) (*3) Wire Harness View:



Combination Meter Assembly Wire Harness View:



P E125100E01

(a) Disconnect the radio receiver connector and combination meter connector.
(b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester connection	Condition	Specified condition
ILL- - C10-22	Always	Below 1 Ω
ILL- - Body ground	Always	10 kΩ or higher

*1: 10 Speaker without Navigation System
*2: 6 Speaker with Rear Seat Entertainment System
*3: 6 Speaker without Rear Seat Entertainment System

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

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

AV