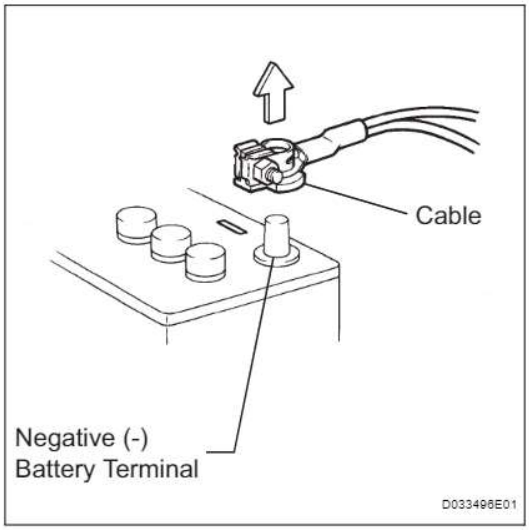


AUDIO AND VISUAL SYSTEM

PRECAUTION

1. DISCONNECT AND RECONNECT CABLE OF NEGATIVE BATTERY TERMINAL

(a) Before performing electronic work, disconnect the cable from the negative (-) battery terminal in order to prevent it from shorting and burning out.

(b) Before disconnecting and reconnecting the battery cable, turn the ignition switch OFF and the headlight dimmer switch OFF. Then loosen the terminal nut completely. Do not damage the cable or terminal.

(c) When the battery cable is disconnected, the clock and radio settings and stored DTCs are erased. Therefore, before disconnecting the battery cable, make a notes of them.

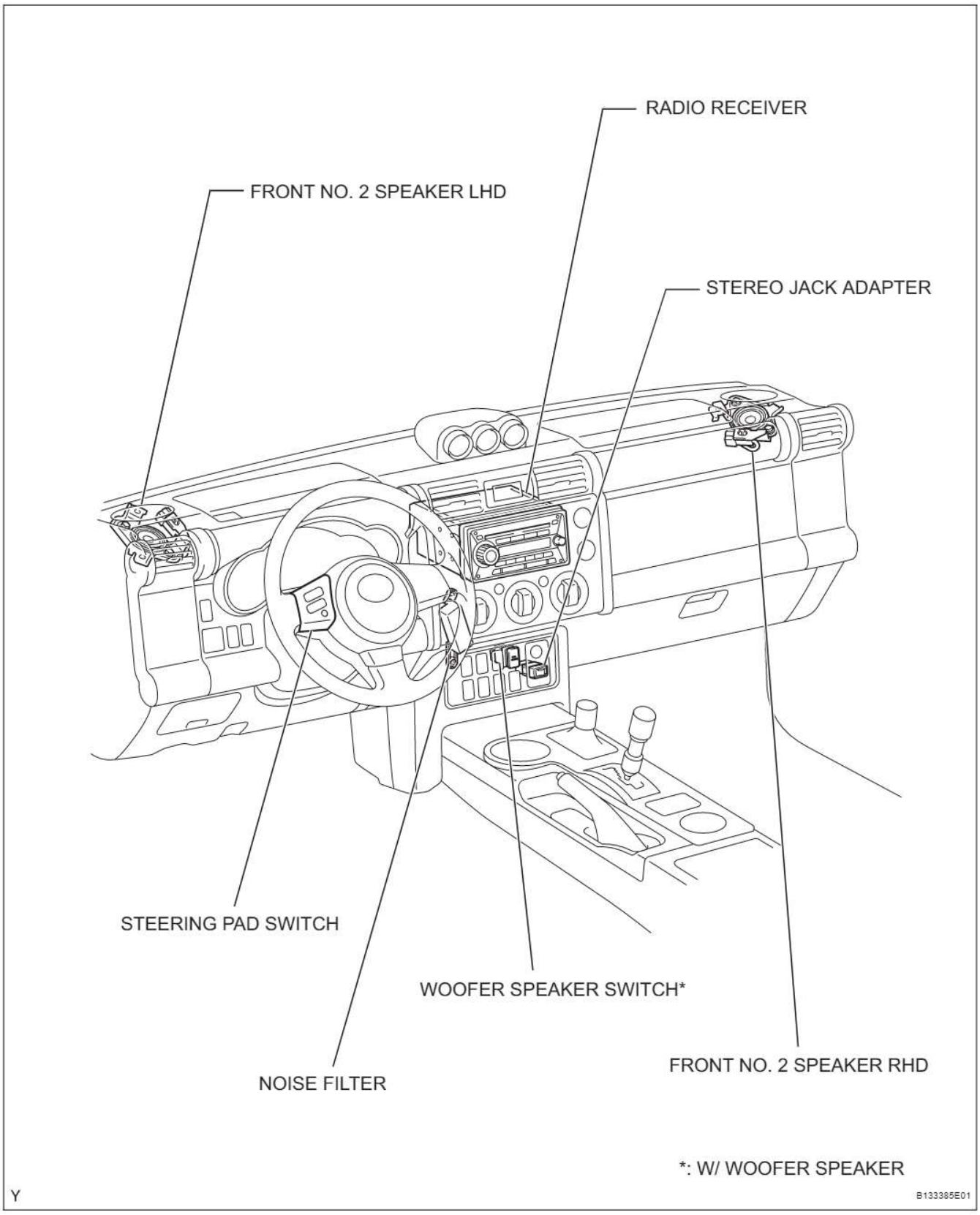
NOTICE:

When the cable is disconnected from the negative (-) battery terminal, initialize the following system(s) after the cable is reconnected.

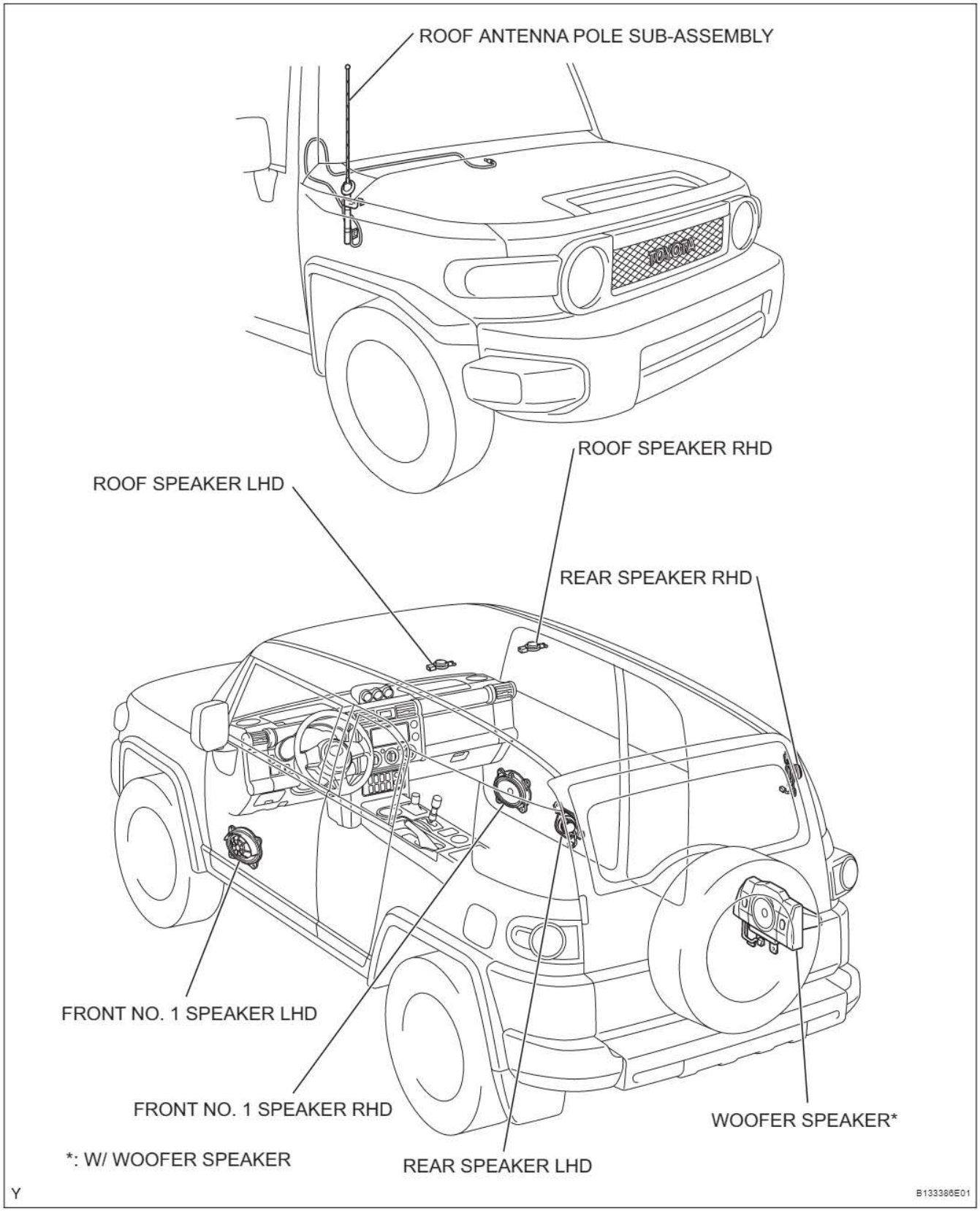
System name	See procedure
METER / GAUGE SYSTEM	ME-10

AV

PARTS LOCATION

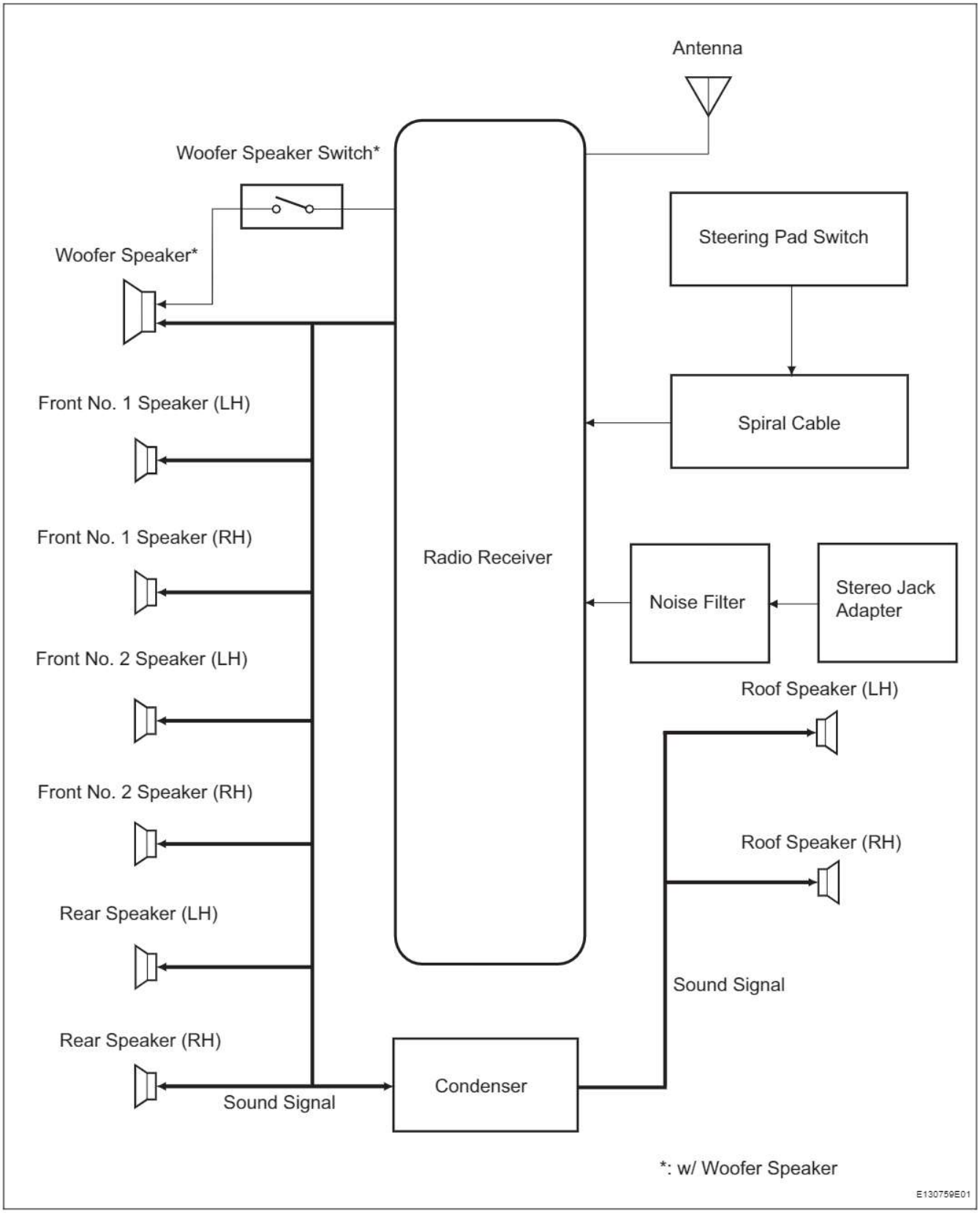


AV


ROOF ANTENNA POLE SUB-ASSEMBLY
ROOF SPEAKER RHD
ROOF SPEAKER LHD
REAR SPEAKER RHD
FRONT NO. 1 SPEAKER LHD
FRONT NO. 1 SPEAKER RHD
WOOFER SPEAKER*
*: W/ WOOFER SPEAKER
REAR SPEAKER LHD
Y
B133386E01

AV

SYSTEM DIAGRAM



AV

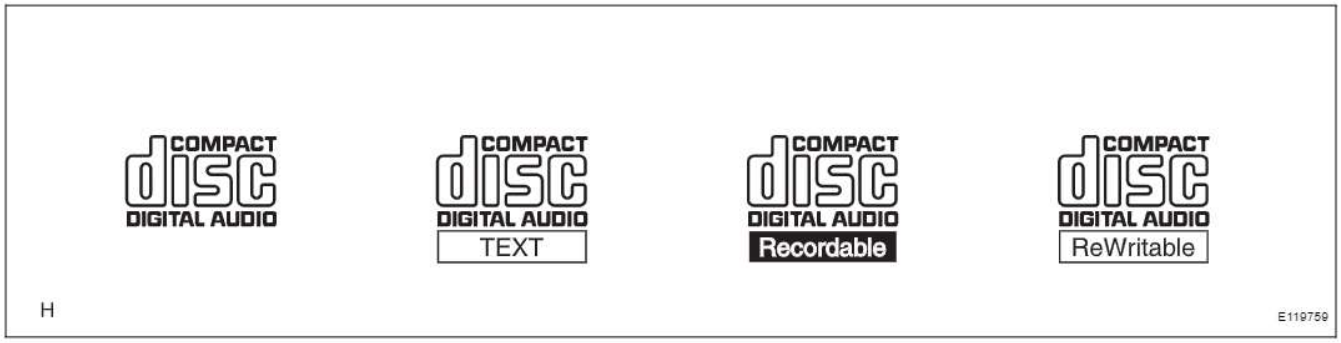
SYSTEM DESCRIPTION

1. CD PLAYER OUTLINE

(a) A CD player uses a laser pickup to read digital signals recorded on CDs . By converting the digital signals to analog, music and other contents can be played.

CAUTION:
Do not look directly at the laser pickup because the CD player uses an invisible laser beam. Be sure to operate the player only as instructed.
NOTICE:
- **Do not disassemble any part of the CD player.**
- **Do not apply oil to the CD player.**
- **Do not insert anything but a CD into the CD player.**

(b) Usable CDs



(c) Precautions for use of discs

NOTICE:
- **Copy-protected CDs cannot be played.**
- **Dual discs cannot be played. Playing dual discs may cause malfunctions of the CD player.**
- **CD-Rs and CD-RWs may not be played depending on the recording conditions or characteristics of the discs, or due to damage, dirt, or deterioration caused by leaving the discs in the cabin for a long time.**
- **Unfinalized CD-Rs and CD-RWs cannot be played.**
- **PAL or SECAM color television standard discs cannot be played. (Only NTSC discs can be played.)**
- **Keep the discs away from dirt. Be careful not to damage the discs or leave your fingerprints on them.**
- **Hold discs by the outer edge and center hole with the label side up.**
- **Leaving the disc exposed halfway out of the slot for a long time after pressing the disc eject button may cause deformation of the disc, making the disc unusable.**

AV

- **If discs have adhesive tape, stickers, CDR labels, or any traces of such labels attached, the discs may not be ejected or player malfunctions may result.**
- **Keep the discs away from direct sunlight. (Exposure to direct sunlight may cause deformation of the disc, making the disc unusable.)**
- **Do not use odd-shaped CDs because these may cause player malfunctions.**
- **Do not use discs whose recording portion is transparent or translucent because they may not be inserted, ejected, or played normally.**

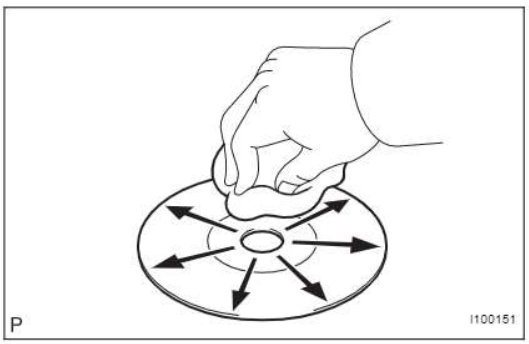
HINT:

- When it is cold or it is raining, if the windows mist up, mist and also dew may form in the player. In such a case, the CD may skip or the CD may stop in the middle of play. Ventilate or dehumidify the cabin for a while before using the player.
- The CD may skip if the player experiences strong vibrations when the vehicle is driven on rough road or similar uneven surface(s).

(d) Cleaning

NOTICE:

Do not use a lens cleaner because it may cause a malfunction in the pickup portion of the player.



(1) If dirt is on the disc surface, wipe it clean with a soft dry cloth such as an eyeglass cleaner for plastic lenses from the center to the outside in a radial direction.

NOTICE:

- **Pressing on the disc by hand or rubbing the disc with a hard cloth may scratch the disc surface.**
- **Use of solvent such as a record spray, antistatic agent, alcohol, benzine, and thinner, or a chemical cloth may cause damage to the disc, making the disc unusable.**

2. MP3/WMA OUTLINE

(a) Playable MP3 file standards

Compatible standard	MP3 (MPEG1 LAYER3, MPEG2 LSF LAYER 3)
Compatible sampling frequency	• MPEG1 LAYER3: 32, 44.1, 48 (kHz) • MPEG2 LSF LAYER3: 16, 22.05, 24 (kHz)
Compatible bit rate	• MPEG1 LAYER3: 64, 80, 96, 112, 128, 160, 192, 224, 256, 320 (kbps) • MPEG2 LSF LAYER3: 64, 80, 96, 112, 128, 160 (kbps) • Compatible with VBR
Compatible channel mode	Stereo, joint stereo, dual channel, monaural

(b) Playable WMA file standards

Compatible standard	WMA Ver. 7, 8, and 9
Compatible sampling frequency	32, 44.1, 48 (kHz)

Compatible bit rate	• Ver. 7, 8: CBR48, 64, 80, 96, 128, 160, 192 (kbps) • Ver. 9: CBR48, 64, 80, 96, 128, 160, 192, 256, 320 (kbps) • Compatible with playback of channel 2 only

(c) ID3 tags and WMA tags

(1) Additional textual information called ID3 tags can be input to MP3 files. Information such as song titles and artist names can be stored.

HINT:

This player is compatible with the ID3 tags of ID3 Ver. 1.0 and 1.1, and ID3 Ver. 2.2 and 2.3. (Number of characters complies with ID3 Ver. 1.0 and 1.1.)

(2) Additional textual information called WMA tags can be input to WMA files. Information such as song titles and artist names can be stored.

(d) Usable media

(1) Only CD-ROMs, CD-Rs (CD-Recordable), and CD-RWs (CD-ReWritable) can be used to play MP3/WMA files.

NOTICE:

- **CD-Rs and CD-RWs are more easily affected by a hot and humid environment than discs used for normal audio CDs. For this reason, some CD-Rs and CD-RWs may not be played.**
- **If there are fingerprints or scratches on the disc, the disc may not be played or the CD may skip.**
- **Some CD-Rs and CD-RWs deteriorate if they are left in the cabin for a long time.**
- **Keep CD-Rs and CD-RWs in a storage case that is impenetrable to light.**

AV

(e) Usable media format

(1) Usable media format

Disc format	CD-ROM Mode 1, CD-ROM XA Mode 2 Form1
File format	ISO9660 Level 1 and Level 2 (Joliet and Romeo)

HINT:

- As for MP3/WMA files written in any format other than those above, the contents of the files may not be played normally or the file names or folder names may not be displayed correctly.
- This player is compatible with multi-session discs and can play CD-Rs and CD-RWs on which MP3/WMA files are added. However, only the first session can be played.
- Discs whose first session includes both music data and MP3 or WMA format data cannot be played.

(2) Standard and restrictions

Maximum directory levels	8 levels
Maximum number of characters for a folder name/file name	32 characters

Maximum number of folders	192 (Including empty folders, route folders, and folders that do not contain MP3/WMA files)
Maximum number of files in a disc	255 (Including non-MP3/WMA files)

(f) File names

(1) Only files with an extension of ".mp3" or ".wma" can be recognized and played as MP3 or WMA files.

(2) Save MP3 or WMA files with an extension of ".mp3" or ".wma".

NOTICE:

If saving non-MP3 or non-WMA files with an extension of ".mp3" or ".wma", those files are wrongly recognized as MP3 or WMA files and played. A loud noise may occur and damage to the speakers may result.

AV

HOW TO PROCEED WITH TROUBLESHOOTING

HINT:
In accordance with the following procedures, troubleshoot the audio and visual system.

1 VEHICLE BROUGHT TO WORKSHOP

NEXT

2 INSPECT BATTERY VOLTAGE

Standard Voltage:
11 to 14 V
If the voltage is below 11 V, recharge or replace the battery before proceeding.

NEXT

3 BASIC INSPECTION

(a) Turn the ignition switch to ACC.
(b) Check whether the display appears on the radio receiver.

Result	Proceed to
Display appears	A
Display does not appear	B

B → **PROCEED TO PROBLEM SYMPTOMS TABLE**

A

4 PROBLEM SYMPTOMS TABLE

Result	Proceed to
Fault not listed in problem symptoms table	A
Fault listed in problem symptoms table	B

B → **Go to step 6**

A

5 OVERALL ANALYSIS AND TROUBLESHOOTING

(a) Terminals of ECU (See page AV-12)

NEXT

6	ADJUST, REPAIR OR REPLACE

NEXT

7	CONFIRMATION TEST

NEXT

END

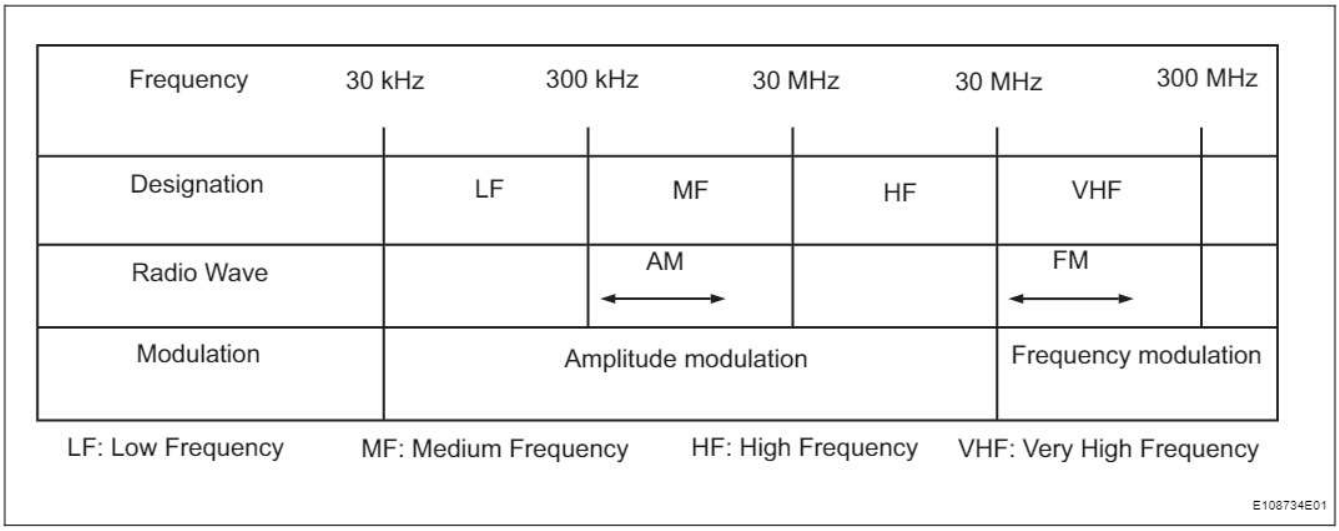
AV

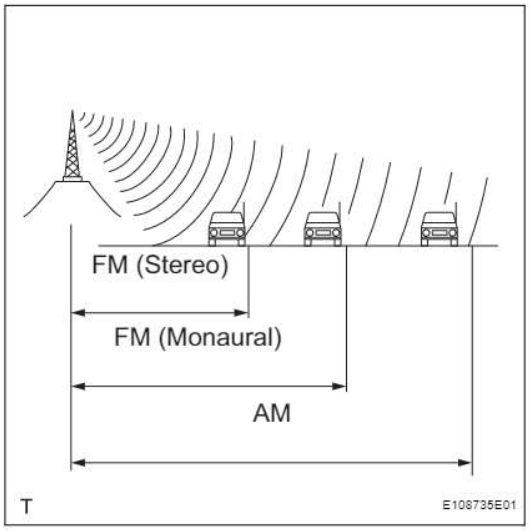
IDENTIFICATION OF NOISE SOURCE

1. Radio Description

(a) Radio frequency band

(1) Radio broadcasts use the radio frequency bands shown in the table below.





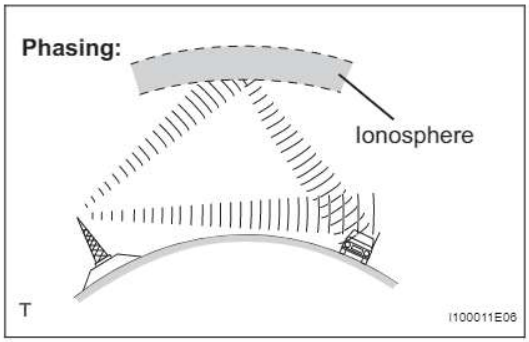
(b) Service area

(1) The service areas of AM and FM broadcasts are vastly different. Sometimes an AM broadcast can be received very clearly but an FM stereo cannot. FM stereo has the smallest service area, and is prone to pick up static and other types of interference such as noise.

(c) Radio reception problems

HINT:

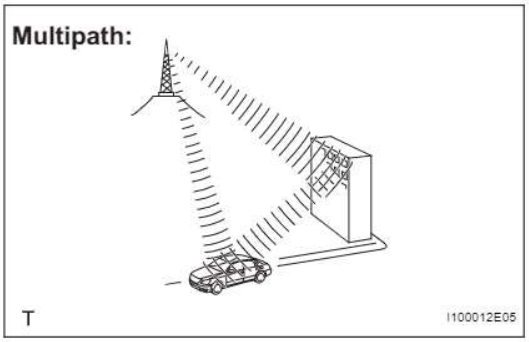
In addition to static, other problems such as "phasing", "multipath", and "fade out" exist. These problems are not caused by electrical noise, but by the radio signal propagation method itself.



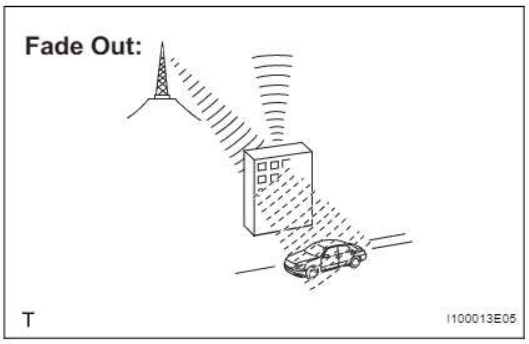
(1) Phasing

AM broadcasts are susceptible to electrical interference and another kind of interference called phasing. Occurring only at night, phasing is the interference created when a vehicle receives 2 radio wave signals from the same transmitter. One signal is reflected off the ionosphere and the other signal is received directly from the transmitter.

AV



(2) Multipath
Multipath is a type of interference created when a vehicle receives 2 radio wave signals from the same transmitter. One signal is reflected off buildings or mountains and the other signal is received directly from the transmitter.



(3) Fade out
Fade out is caused by objects (buildings, mountains, and other such large obstacles) that deflect away part of a signal, resulting in a weaker signal when the object is between the transmitter and the vehicle. High frequency radio waves, such as FM broadcasts, are easily deflected by obstructions. Low frequency radio waves, such as AM broadcasts, are much more difficult to deflect.

(d) Noise problem
Technicians must have a clear understanding about each customer's noise complaint. Use the following table to diagnose noise problems.

Radio Frequency	Noise Occurrence Condition	Presumable Cause
AM	Noise occurs in a specified area	Foreign noise
AM	Noise occurs when listening to an intermittent broadcast	An identical program transmitted from multiple towers can cause noise where the signals overlap
AM	Noise occurs only at night	Music beat from a distant broadcast
FM	Noise occurs while driving in a specified area	Multipath or phasing noise resulting from a change in FM frequency

AV

HINT:
If the noise does not match the examples above, refer to the descriptions about phasing and multipath.

PROBLEM SYMPTOMS TABLE

HINT:
Use the table below to determine the cause of the problem symptom. The potential causes of the symptom are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.

Audio Function

Symptom	Suspected area	See page
Noise occurs	1. Proceed to Noise Occurs	AV-14
	2. Radio Receiver	-
Pressing power switch does not turn on system	1. Proceed to Pressing Power Switch does not Turn on System	AV-15
	2. Proceed to Radio Receiver Power Source Circuit	AV-49
	3. Radio Receiver	-
No sound can be heard from speakers (audio is mute)	1. Proceed to No Sound can be Heard from Speakers (Audio is Mute)	AV-16
	2. Proceed to Speaker Circuit	AV-35
	3. Proceed to Radio Receiver Power Source Circuit	AV-49
	4. Proceed to Woofer Speaker Power Source Circuit (w/ woofer speaker)	AV-46
	5. Radio Receiver	-
Sound quality is bad only when CD is played (volume is too low)	1. Proceed to Sound Quality is Bad Only when CD is played (Volume is too low)	AV-17
	2. Proceed to Speaker Circuit	AV-35
	3. Proceed to Woofer Speaker Power Source Circuit (w/ woofer speaker)	AV-51
	4. Radio Receiver	-
CD cannot be ejected	1. Proceed to CD cannot be Ejected	AV-18
	2. Proceed to Radio Receiver Power Source Circuit	AV-49
	3. Radio Receiver	-
CD cannot be inserted / played or CD is ejected right after insertion	1. Proceed to CD cannot be Inserted / Played or CD is Ejected Right After Insertion	AV-19
	2. Proceed to Radio Receiver Power Source Circuit	AV-49
	3. Radio Receiver	-
CD sound skips	1. Proceed to CD Sound Skips	AV-21
	2. Radio Receiver	-
Radio broadcast cannot be received (bad reception)	1. Proceed to Radio Broadcast cannot be Received (Bad Reception)	AV-23
Poor sound quality in all modes (low volume)	1. Proceed to Poor Sound Quality in All Modes (Low Volume)	AV-25
	2. Proceed to Speaker Circuit	AV-35
	3. Radio Receiver	-
Radio receiver cannot be illuminated at night	1. Proceed to Illumination Circuit	AV-30
	2. Radio Receiver	-
External device sound cannot be heard or sound quality is bad. (Stereo jack is used.)	1. Proceed to Sound Signal Circuit between Radio Receiver and Stereo Jack Adapter	AV-43
	2. Stereo Jack Adapter	-
	3. Noise Filter	-
	4. Radio Receiver	-
Woofer system cannot be operated with woofer speaker switch (w/ woofer speaker)	1. Proceed to Woofer Speaker Switch Circuit	AV-46
	2. Radio Receiver	-
	3. Proceed to Woofer Speaker Power Source Circuit	AV-51

AV

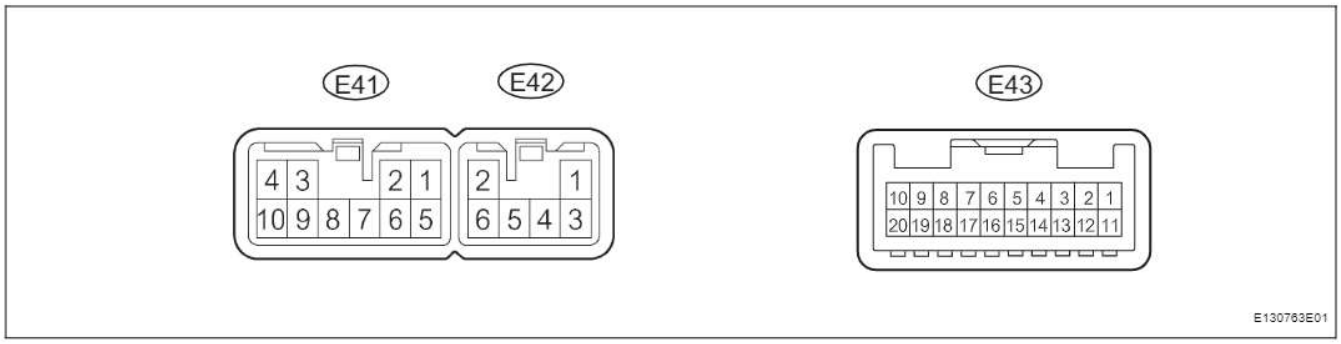
Steering Pad Switch Function

Symptom	Suspected area	See page
Audio system cannot be operated with steering pad switch	1. Proceed to Steering Pad Switch Circuit	AV-26
	2. Radio Receiver	-
Steering pad switch cannot be illuminated at night	1. Proceed to Illumination Circuit	AV-30
	2. Radio Receiver	-

AV

TERMINALS OF ECU

1. CHECK RADIO RECEIVER



(a) Disconnect the E41 receiver connector.
(b) Measure the resistance and voltage of the wire harness side connector.

Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
GND (E41-7) - Body ground	BR - Body ground	Ground	Always	Below 1 Ω
B (E41-4) - GND (E41-7)	L-Y - BR	Battery	Always	11 to 14 V
ACC (E41-3) - GND (E41-7)	GR -BR	ACC power supply	Ignition switch OFF	Below 1 V
			Ignition switch ACC	11 to 14 V

HINT:
If the results are not as specified, there may be a malfunction in the wire harness.

(c) Reconnect the E41 receiver connector.
(d) Measure the voltage of the connector.

AV

Standard voltage:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specification
ILL+ (E41-10) - GND (E41-7)	G - BR	Illumination signal	Light control switch OFF	Below 1 V
			Light control switch TAIL	11 to 14 V
ILL- (E42-5) - GND (E41-7)	BR-W - BR	Illumination signal	Light control switch OFF	Below 1 V
			Light control switch TAIL	11 to 14 V
FR+ (E41-1) - GND (E41-7)	LG - BR	Sound signal (Front right)	Audio system is playing	A waveform synchronized with sound is output
FR- (E41-5) - GND (E41-7)	L - BR	Sound signal (Front right)	Audio system is playing	A waveform synchronized with sound is output
FL+ (E41-2) - GND (E41-7)	P - BR	Sound signal (Front left)	Audio system is playing	A waveform synchronized with sound is output
FL- (E41-6) - GND (E41-7)	V - BR	Sound signal (Front left)	Audio system is playing	A waveform synchronized with sound is output
RR+ (E42-1) - GND (E41-7)	R - BR	Sound signal (Rear right)	Audio system is playing	A waveform synchronized with sound is output
RR- (E42-3) - GND (E41-7)	W - BR	Sound signal (Rear right)	Audio system is playing	A waveform synchronized with sound is output
RL+ (E42-2) - GND (E41-7)	B - BR	Sound signal (Rear left)	Audio system is playing	A waveform synchronized with sound is output
RL- (E42-6) - GND (E41-7)	Y - BR	Sound signal (Rear left)	Audio system is playing	A waveform synchronized with sound is output
AMP (E41-9) - GND (E41-7)*1	P-L - BR	Woofer speaker signal	Woofer speaker switch OFF	Below 1 V
			Woofer speaker switch ON	11 to 14 V

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specification
SWG (E43-6) - GND (E41-7)	W-R - BR	Steering pad switch ground	Always	Below 1 V
SW1 (E43-7) - GND (E41-7)	V-W - BR	Steering pad switch signal	Steering pad switch not operated	4 V or more
			SEEK+ switch pushed	Approximately 0.5 V
			SEEK- switch pushed	Approximately 0.9 V
			VOL+ switch pushed	Approximately 2.0 V
			VOL- switch pushed	Approximately 3.4 V
SW2 (E43-8) - GND (E41-7)	Y-B - BR	Steering pad switch signal	Steering pad switch not operated	4 V or more
			MODE switch pushed	Approximately 0.5 V
			ON HOOK switch pushed	Approximately 0.9 V
			OFF HOOK switch pushed	Approximately 2.0 V
			VOICE switch pushed	Approximately 3.4 V
ARI (E43-15) - GND (E41-7)	P - BR	Sound signal (Right)	External device is playing (When stereo jack adapter is used)	A waveform synchronized with sound is output
ASGN (E43-16) - GND (E41-7)	(Shielded) - BR	Ground (Shielded)	Always	Below 1 V
ALI (E43-17) - GND (E41-7)	L - BR	Sound signal (Left)	External device is playing (When stereo jack adapter is used)	A waveform synchronized with sound is output
AUXI (E43-19) - GND (E41-7)	P-G - BR	External device connection detection signal	External device is connected	Below 1 V

*1: w/ Woofer Speaker

HINT:

If the results are not as specified, there may be a malfunction in the wire harness.

AV

Noise Occurs

INSPECTION PROCEDURE

1	CHECK SPEAKER INSTALLATION

(a) Check that each speaker is securely installed.
OK:
Speakers are installed securely.

HINT:
The radio has a noise prevention function to reduce noise when listening to the radio. If severe noise occurs, check whether the ground at the antenna mounting base and the noise prevention unit are installed and wired correctly.

Condition in Which Noise Occurs	Noise Type
Increases when accelerator pedal is depressed, and stops immediately when engine is stopped	Generator noise
When A/C or heater is operating	Blower motor noise
• When vehicle is rapidly accelerated on unpaved road • When ignition switch is ON	Fuel pump noise
• When horn switch is pressed and released • When horn switch is pressed and held down	Horn noise
Occurs faintly when engine is running, and stops immediately when engine is stopped	Ignition noise
When turn signal is operating	Flasher noise
When window washer is operating	Washer noise
When engine is running, and continues even when engine is stopped	Engine coolant temperature noise
When wipers are operating	Wiper noise
When brake pedal is depressed	Stop light switch noise
Other than above	Static electricity on vehicle

HINT:
- Use the table above to identify the part that is causing the noise. Check the noise filter on the part.
- To save time and avoid a misdiagnosis, first make sure that the noise is not originating from outside the vehicle.
- Troubleshoot noise problems in order of loudness, starting with the loudest noise.
- Setting the radio to a frequency that receives no signal may make recognition of the noise problem easier.

NG → INSTALL SPEAKER PROPERLY

OK

IDENTIFY NOISE SOURCE

Pressing Power Switch does not Turn on System

INSPECTION PROCEDURE

1	CHECK WHETHER RAPID TEMPERATURE CHANGE OCCURRED IN CABIN

(a) Check whether or not a rapid temperature change occurred in the cabin.
OK:
Rapid temperature change occurred.
HINT:
Rapid temperature changes create condensation inside the radio receiver, which may cause a short circuit.

NG → REPLACE RADIO RECEIVER

OK ↓

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

AV

No Sound can be Heard from Speakers

INSPECTION PROCEDURE

1	CHECK RADIO RECEIVER (VOLUME AND MUTE SWITCH)

(a) Check the radio receiver setting.
(1) Check that the volume is not set to minimum.
(2) Check that MUTE is OFF.
OK:
Malfunction disappears.

NG → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

OK

END

AV

Sound Quality is Bad Only when CD is Played (Volume is Too Low)

INSPECTION PROCEDURE

1	OPERATION USING ANOTHER CD

(a) Replace the CD with a normal one and check if the same problem occurs again.
OK:
Malfunction disappears.

NG → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

OK

CD IS FAULTY

AV

CD cannot be Ejected

INSPECTION PROCEDURE

1	CHECK OPERATION

(a) Press the CD EJECT switch of the radio receiver for 2 seconds or more to check whether the CD can be ejected.
OK:
CD is ejected.

NG → REPLACE RADIO RECEIVER

OK ↓

2	OPERATION USING ANOTHER CD

(a) Replace the CD with a normal one and check that the CD can be ejected.
OK:
CD is ejected.

NG → REPLACE RADIO RECEIVER

OK ↓

CD IS FAULTY

AV

CD cannot be Inserted or is Ejected Right After Insertion

INSPECTION PROCEDURE

1	CHECK CD

(a) Make sure that the CD is a normal audio CD, and that it is not deformed, flawed, stained, burred or otherwise defective.
OK:
Normal audio CD.
HINT:
Translucent or uniquely-shaped CDs cannot be played.

NG → **CD IS FAULTY**

OK

2	CHECK THAT CD HAS BEEN INSERTED PROPERLY

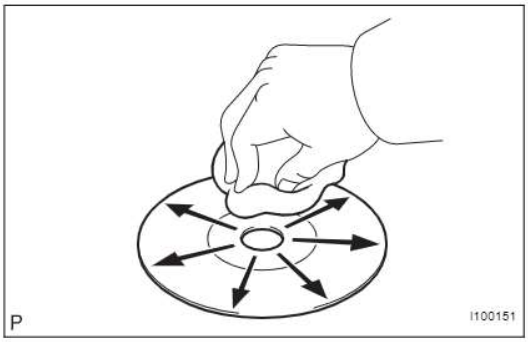
(a) Check whether or not the CD was inserted upside down.
OK:
CD was properly inserted.

NG → **INSERT CD PROPERLY**

OK

AV

3	CLEAN CD



(a) Clean the disc by wiping the CD's dataside radially with a soft cloth.
OK:
Malfunction disappears.
NOTICE:
Do not use a conventional record cleaner or anti-static preservative.

OK → **CD WAS DIRTY**

NG

4	REPLACE CD

(a) Replace the CD with a normal one and check if the same problem occurs again.
OK:
Malfunction disappears.

NG → **REPLACE RADIO RECEIVER**

OK

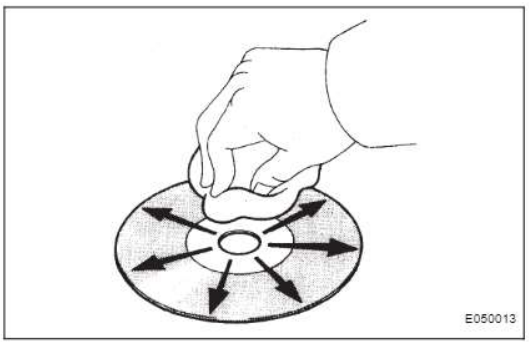
CD IS FAULTY

CD Sound Skips

INSPECTION PROCEDURE

HINT:
The sound may skip when driving on an unpaved road.

1	CLEAN CD



(a) If the disc is dirty, clean the disc by wiping the CD's dataside radially with a soft cloth.
OK:
Malfunction disappears.
NOTICE:
Do not use a conventional record cleaner or anti-static preservative.

OK → **CD WAS DIRTY**

NG

2	OPERATION USING ANOTHER CD

(a) Replace the CD with a normal one and check if the same problem occurs again.
OK:
Malfunction disappears.

OK → **CD IS FAULTY**

NG

3	CHECK RADIO RECEIVER INSTALLATION

(a) Check the installation condition of the radio receiver.
OK:
Installed properly.

NG → **INSTALL RADIO RECEIVER PROPERLY**

OK

4	CHECK WHETHER RAPID TEMPERATURE CHANGE OCCURRED IN CABIN

(a) Check whether or not a rapid temperature change occurred in the cabin.
OK:
Rapid temperature change occurred.
HINT:
Rapid temperature changes create condensation inside the CD player, which may prevent CDs from being played.

NG → REPLACE RADIO RECEIVER

OK

CONDENSATION DUE TO TEMPERATURE CHANGE (LET IT SIT FOR A WHILE BEFORE USING)

Radio Broadcast cannot be Received (Bad Reception)

INSPECTION PROCEDURE

1	CHECK WHETHER RAPID TEMPERATURE CHANGE OCCURRED IN CABIN

(a) Check whether the radio auto-search functions properly.
(1) Tune the radio using the auto-search function and check that it operates normally.
OK:
The radio auto-search functions properly.

OK → END

NG

2	CHECK OPTIONAL COMPONENTS

(a) Check whether any optional components, such as telephone antenna, are installed.
OK:
Optional component(s) installed.

OK → EFFECT FROM OPTIONAL COMPONENTS

NG

AV

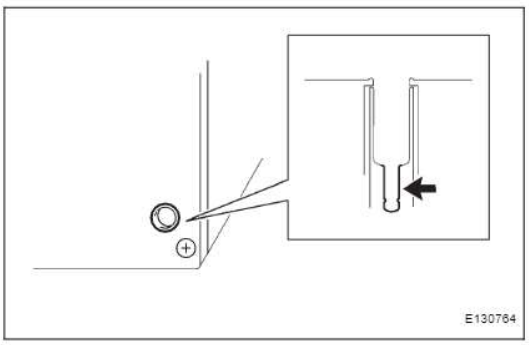
3	CHECK ANTENNA FOR NOISE PRODUCTION

(a) With the ignition switch ON, turn on the radio and select the AM mode.
(b) Place the tip of a screwdriver on the antenna and check that noise is heard from the speakers.
OK:
Noise occurs.

OK → REPLACE RADIO RECEIVER

NG

4	INSPECT RADIO RECEIVER (ANTENNA)



(a) Remove the antenna plug of the radio receiver.
(b) With the radio receiver connector connected, turn the ignition switch on (ACC).
(c) Turn on the radio and select the AM mode.
(d) Place a flat-head screwdriver or piece of metal, such as a thin wire, on the antenna jack of the radio receiver. Check that noise is heard from the speakers.
OK:
Noise occurs.

NG → REPLACE ROOF ANTENNA POLE SUB-ASSEMBLY

OK

REPLACE RADIO RECEIVER

Poor Sound Quality in All Modes (Low Volume)

INSPECTION PROCEDURE

1	ADJUST SOUND QUALITY

(a) Operate the radio receiver to adjust the sound quality.
OK:
Sound quality returns to normal.

OK → SYSTEM IS OK (POOR SOUND QUALITY)

NG

2	COMPARE WITH ANOTHER VEHICLE OF SAME MODEL

(a) Compare the vehicle with another vehicle that has a normally functioning audio system. Check if there is any difference in the sound quality.
OK:
No difference is found.

OK → SYSTEM IS OK (POOR SOUND QUALITY)

NG

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

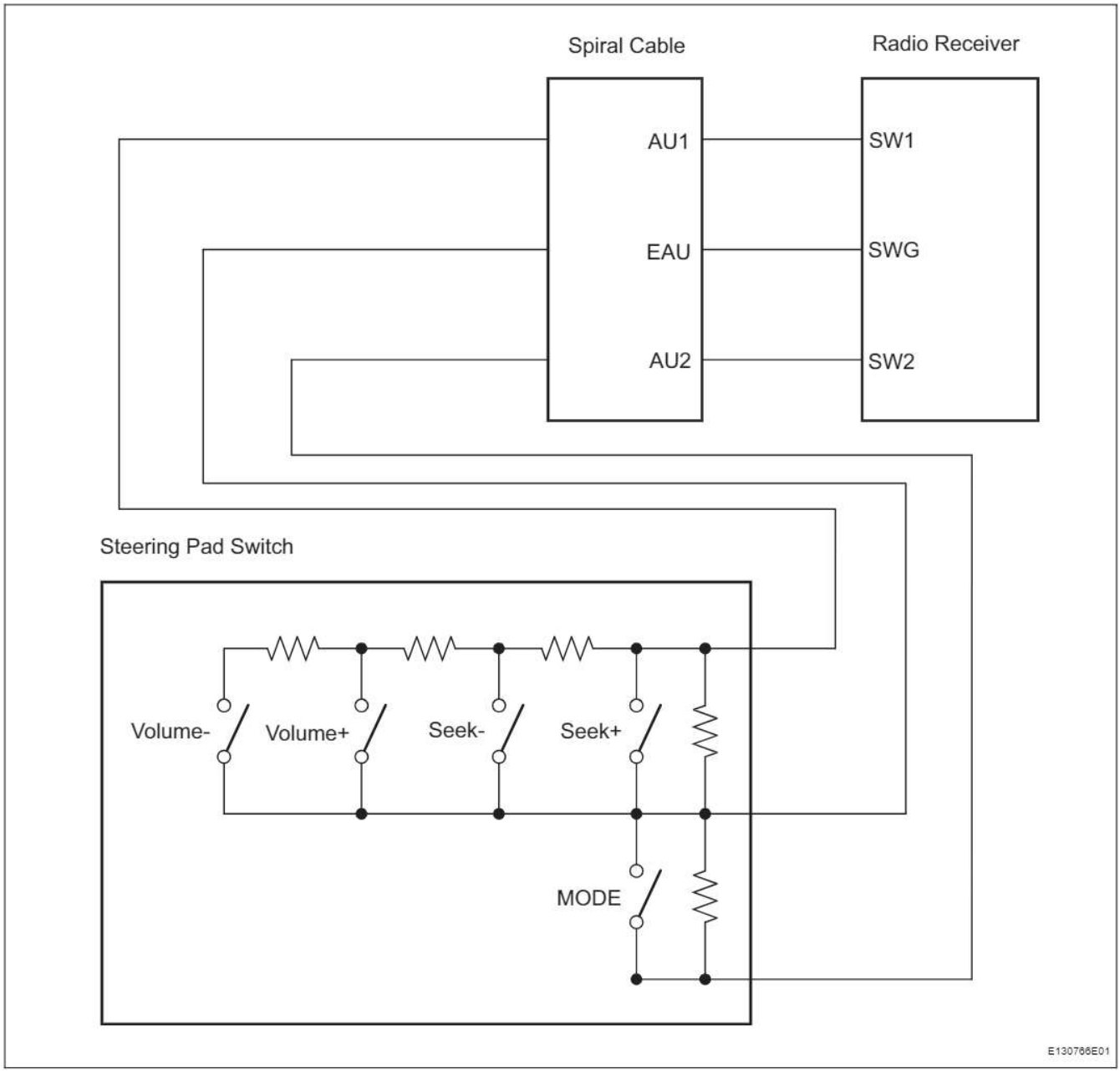
AV

Steering Pad Switch Circuit

DESCRIPTION

This circuit sends an operation signal from the steering pad switch to the radio receiver.
If there is an open in the circuit, the audio system cannot be operated using the steering pad switch.
If there is a short in the circuit, the same condition as that when the switch is continuously depressed occurs.
Therefore, the radio receiver cannot be operated using the steering pad switch, and also the radio receiver itself cannot function.

WIRING DIAGRAM



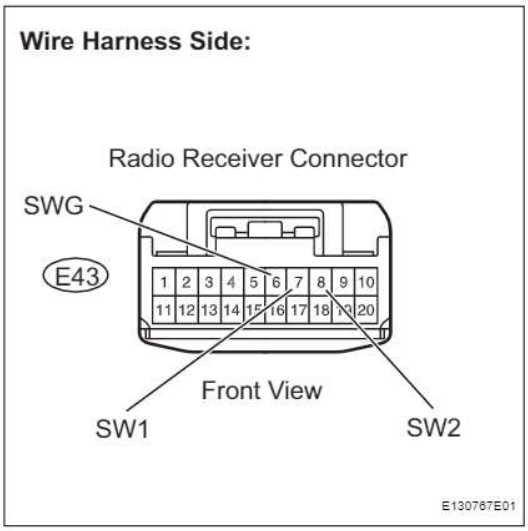
AV

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-1).

1 INSPECT RADIO RECEIVER



(a) Disconnect the E43 radio receiver connector.

(b) Measure the resistance.

Standard resistance

Tester connection	Condition	Specified condition
E43-7 (SW1) - E43-6 (SWG)	No switches pushed	Approximately 100 kΩ
E43-7 (SW1) - E43-6 (SWG)	SEEK+ switch pushed	Approximately 0 Ω
E43-7 (SW1) - E43-6 (SWG)	SEEK- switch pushed	Approximately 0.3 kΩ
E43-7 (SW1) - E43-6 (SWG)	VOL+ switch pushed	Approximately 1 kΩ
E43-7 (SW1) - E43-6 (SWG)	VOL- switch pushed	Approximately 3.2 kΩ
E43-8 (SW2) - E43-6 (SWG)	No switches pushed	Approximately 100 kΩ
E43-8 (SW2) - E43-6 (SWG)	MODE switch pushed	Approximately 0 Ω

(c) Reconnect the radio receiver connector.

NG → Go to step 2

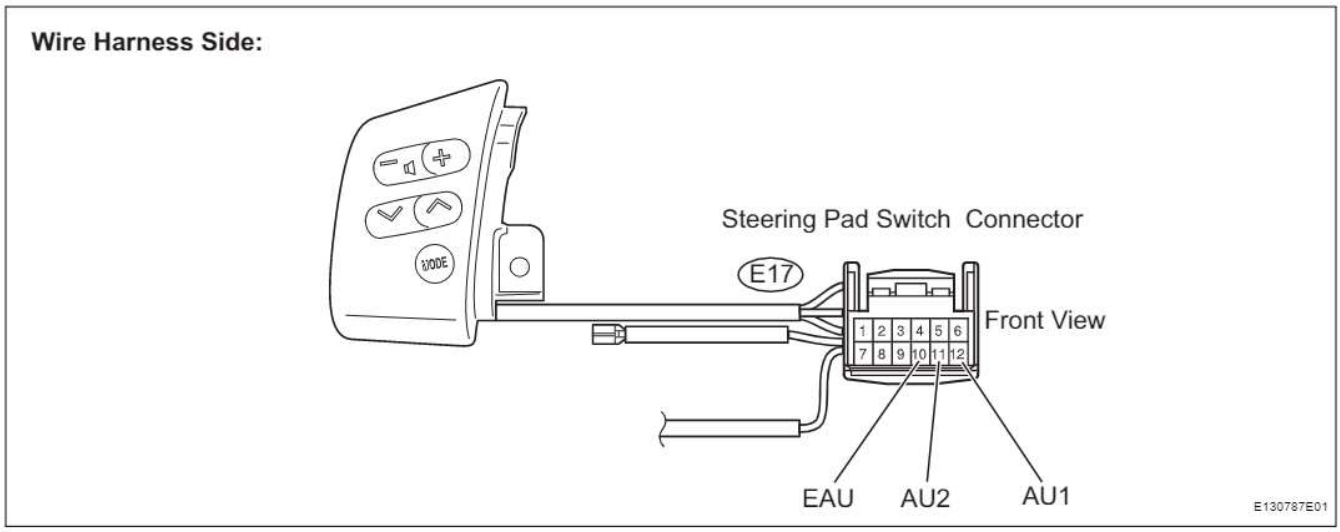
AV

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

2 INSPECT STEERING PAD SWITCH ASSEMBLY

(a) Disconnect the E17 steering pad switch assembly connector.



(b) Measure the resistance.

Standard resistance

Tester connection	Condition	Specified condition
E17-12 (AU1) - E17-10 (EAU)	No switches pushed	Approximately 100 kΩ
E17-12 (AU1) - E17-10 (EAU)	SEEK+ switch pushed	Approximately 0 Ω
E17-12 (AU1) - E17-10 (EAU)	SEEK- switch pushed	Approximately 0.3 kΩ
E17-12 (AU1) - E17-10 (EAU)	VOL+ switch pushed	Approximately 1 kΩ
E17-12 (AU1) - E17-10 (EAU)	VOL- switch pushed	Approximately 3.2 kΩ
E17-11 (AU2) - E17-10 (EAU)	No switches pushed	Approximately 100 kΩ
E17-11 (AU2) - E17-10 (EAU)	MODE switch pushed	Approximately 0 Ω

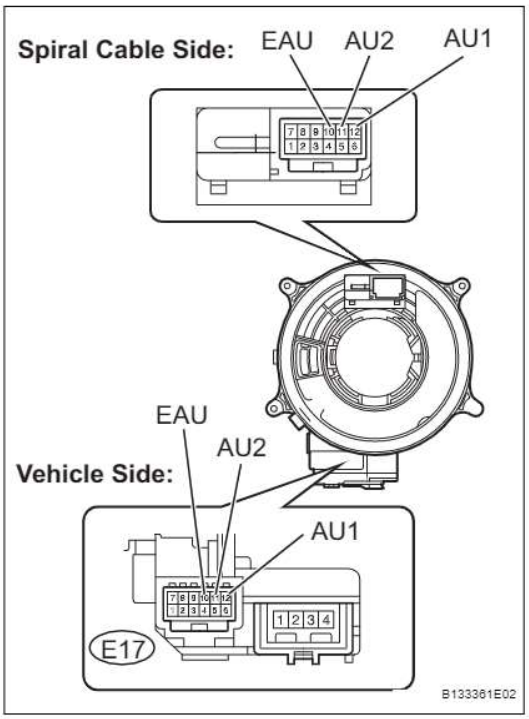
(c) Reconnect the steering pad switch assembly connector.

NG → REPLACE STEERING PAD SWITCH ASSEMBLY

OK

AV

3	INSPECT SPIRAL CABLE



(a) Disconnect the E17 steering pad switch assembly and spiral cable connectors.
(b) Measure the resistance.
Standard resistance

Tester connection	Specified condition
Terminal 10 (EAU) main switch side - EAU (E17-10)	Below 1 Ω
Terminal 12 (AU1) main switch side - AU1 (E17-12)	Below 1 Ω
Terminal 11 (AU2) main switch side - AU2 (E17-11)	Below 1 Ω

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.
HINT:
- Removal (See page RS-357)
- Installation (See page RS-358)

(c) Reconnect the steering pad switch assembly connector.
(d) Reconnect the spiral cable connector.

NG → REPLACE SPIRAL CABLE

AV

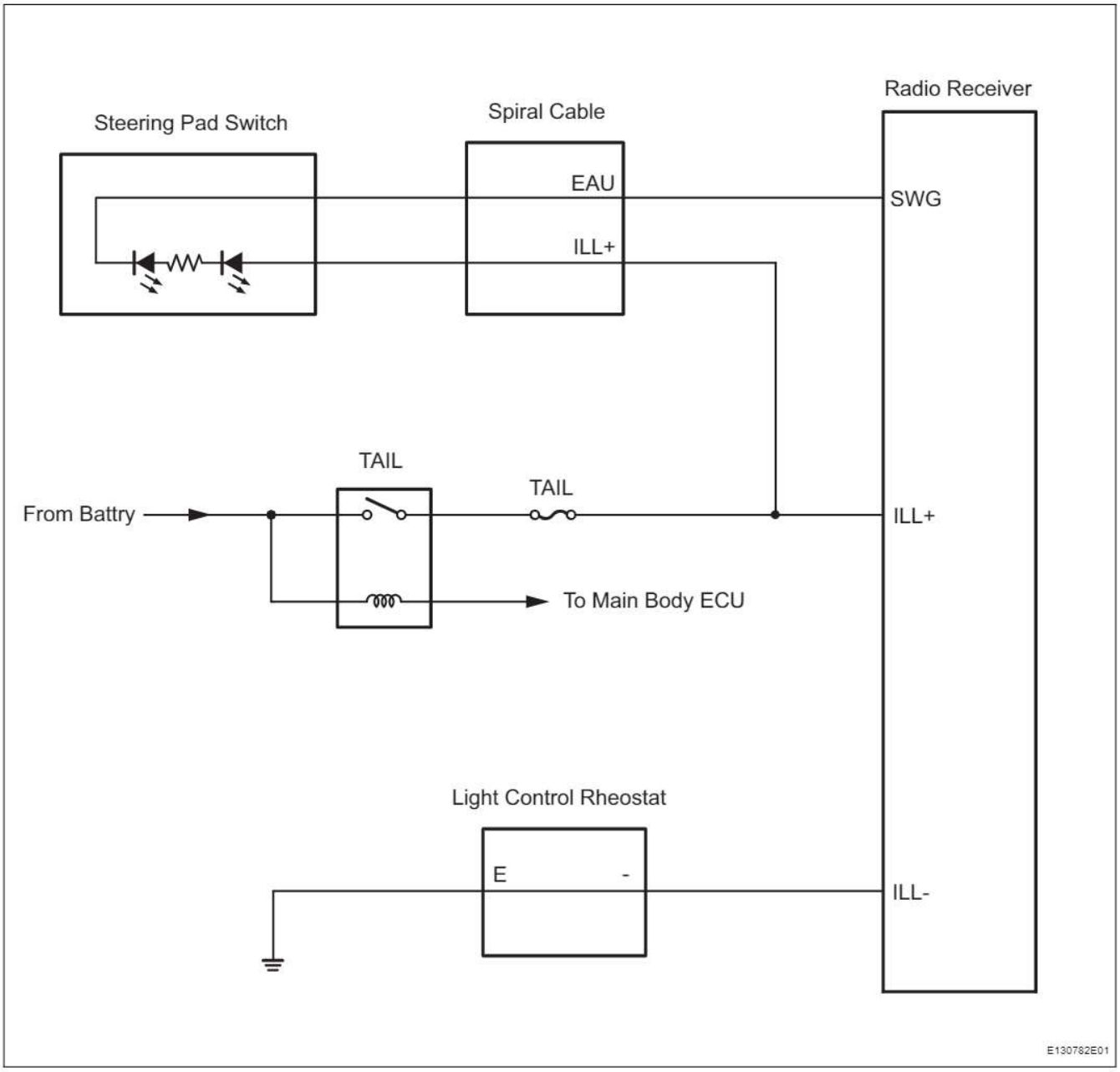
OK → REPAIR OR REPLACE HARNESS OR CONNECTOR (SPIRAL CABLE - RADIO RECEIVER)

Illumination Circuit

DESCRIPTION

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

WIRING DIAGRAM



AV

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-1).

1	CHECK ILLUMINATION

(a) Check if the illumination for the radio receiver, steering pad switch, or others (back sonar switch, hazard switch, 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, back sonar switch, hazard switch, etc.).	C

B → GO TO LIGHTING SYSTEM

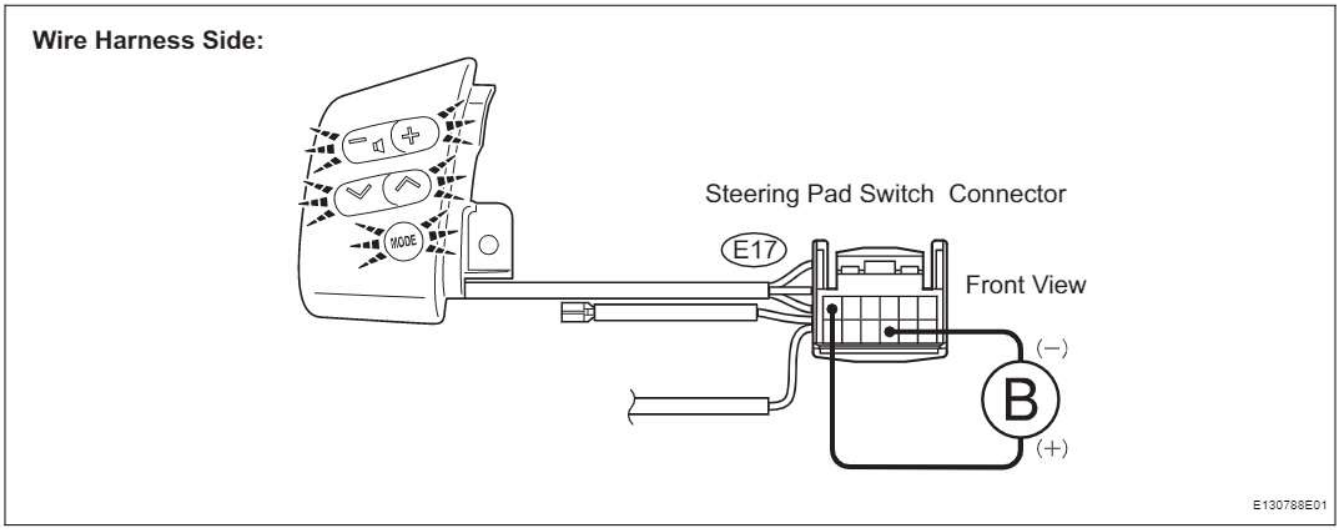
C → Go to step 6

A

2	INSPECT STEERING PAD SWITCH ASSEMBLY

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

AV

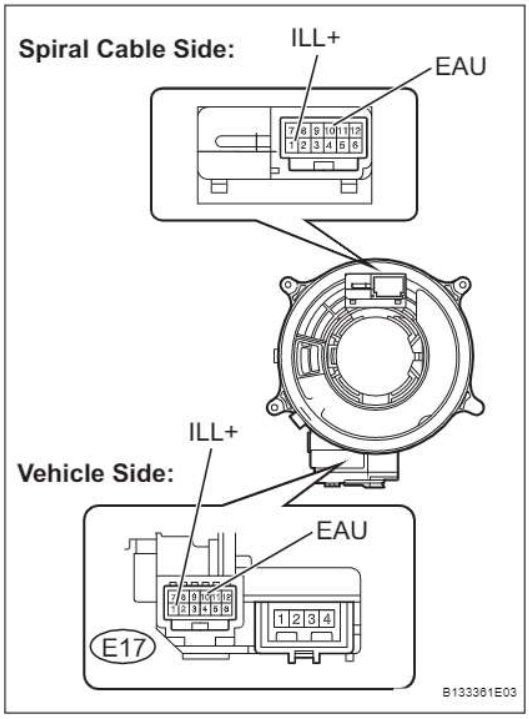


(c) Check if the illumination for the steering pad switch assembly comes on.
OK:
Illumination for the steering pad switch assembly comes on.

NG → REPLACE STEERING PAD SWITCH ASSEMBLY

OK

3	INSPECT SPIRAL CABLE



(a) Disconnect the E17 steering pad switch assembly and spiral cable connectors.
(b) Measure the resistance.
Standard resistance

Tester connection	Specified condition
Terminal 10 (EAU) main switch side - EAU (E17-10)	Below 1 Ω
Terminal 1 (ILL+) main switch side - ILL+ (E17-1)	Below 1 Ω

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.
HINT:
- Removal (See page RS-357)
- Installation (See page RS-358)

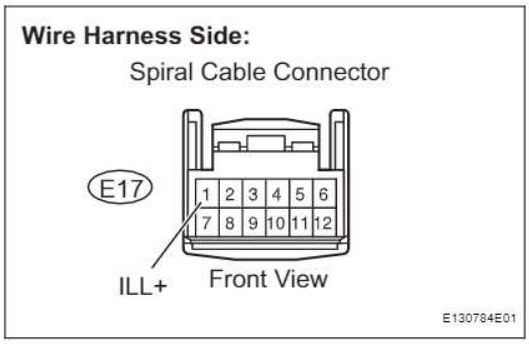
(c) Reconnect the steering pad switch assembly connector.
(d) Reconnect the spiral cable connector.

NG → REPLACE SPIRAL CABLE

OK

AV

4	CHECK HARNESS AND CONNECTOR (BATTERY - SPIRAL CABLE)



(a) Disconnect the E17 spiral cable connector.
(b) Measure the voltage.
Standard voltage

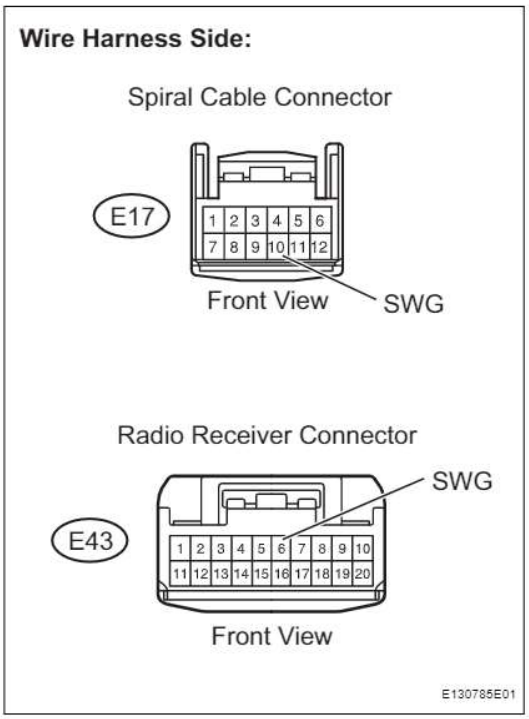
Tester connection	Condition	Specified condition
E17-1 (ILL+) - Body ground	Light control SW TAIL or HEAD	11 to 14 V

(c) Reconnect the spiral cable connector.

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

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



(a) Disconnect the E43 receiver connector.
(b) Disconnect the E17 spiral cable connector.
(c) Measure the resistance.

Standard resistance

Tester Connection	Specified Condition
E43-6 (SWG) - E17-10 (SWG)	Below 1 Ω
E43-6 (SWG) or E17-10 (SWG) - Body ground	10 kΩ or higher

(d) Reconnect the receiver connector.
(e) Reconnect the spiral cable connector.

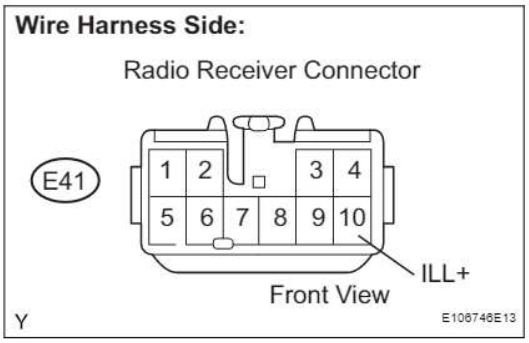
NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

AV

REPLACE RADIO RECEIVER

6 CHECK HARNESS AND CONNECTOR (BATTERY - RADIO RECEIVER)



(a) Disconnect the E41 receiver connector.
(b) Measure the voltage.

Standard voltage

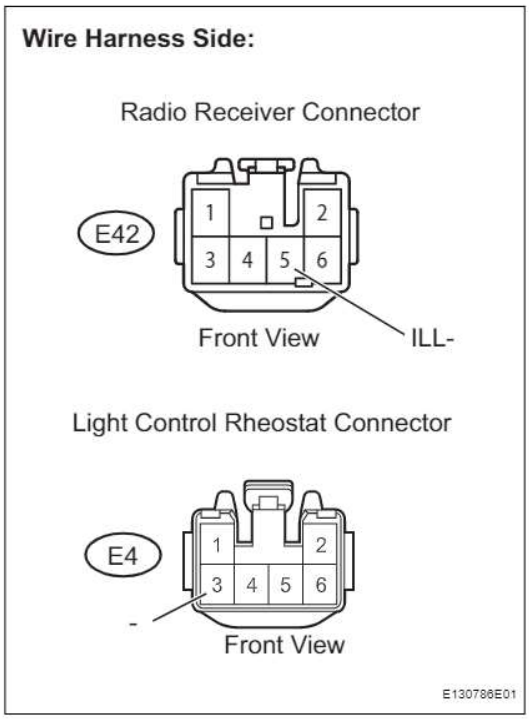
Tester connection	Condition	Specified condition
E41-10 (ILL+) - Body ground	Light control SW TAIL or HEAD	11 to 14 V

(c) Reconnect the receiver connector.

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

7	CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - LIGHT CONTROL RHEOSTAT)



(a) Disconnect the E42 receiver connector.
(b) Disconnect the E4 light control rheostat connector.
(c) Measure the resistance.
Standard resistance

Tester Connection	Specified Condition
E42-6 (ILL-) - E4-3 (-)	Below 1 Ω
E42-6 (ILL-) or E4-3 (-) - Body ground	10 kΩ or higher

(d) Reconnect the receiver connector.
(e) Reconnect the light control rheostat connector.

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

OK

RADIO RECEIVER

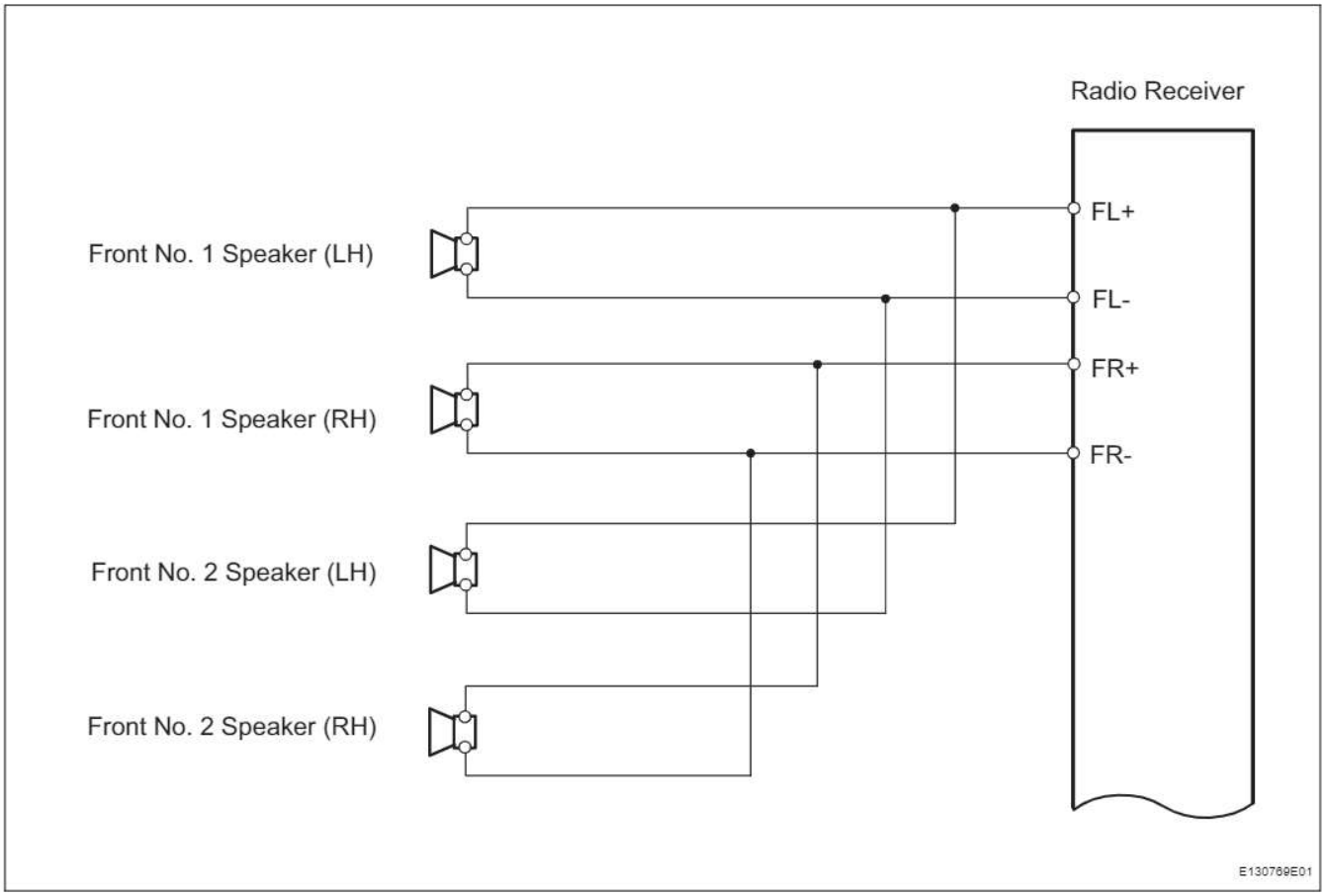
AV

Speaker Circuit

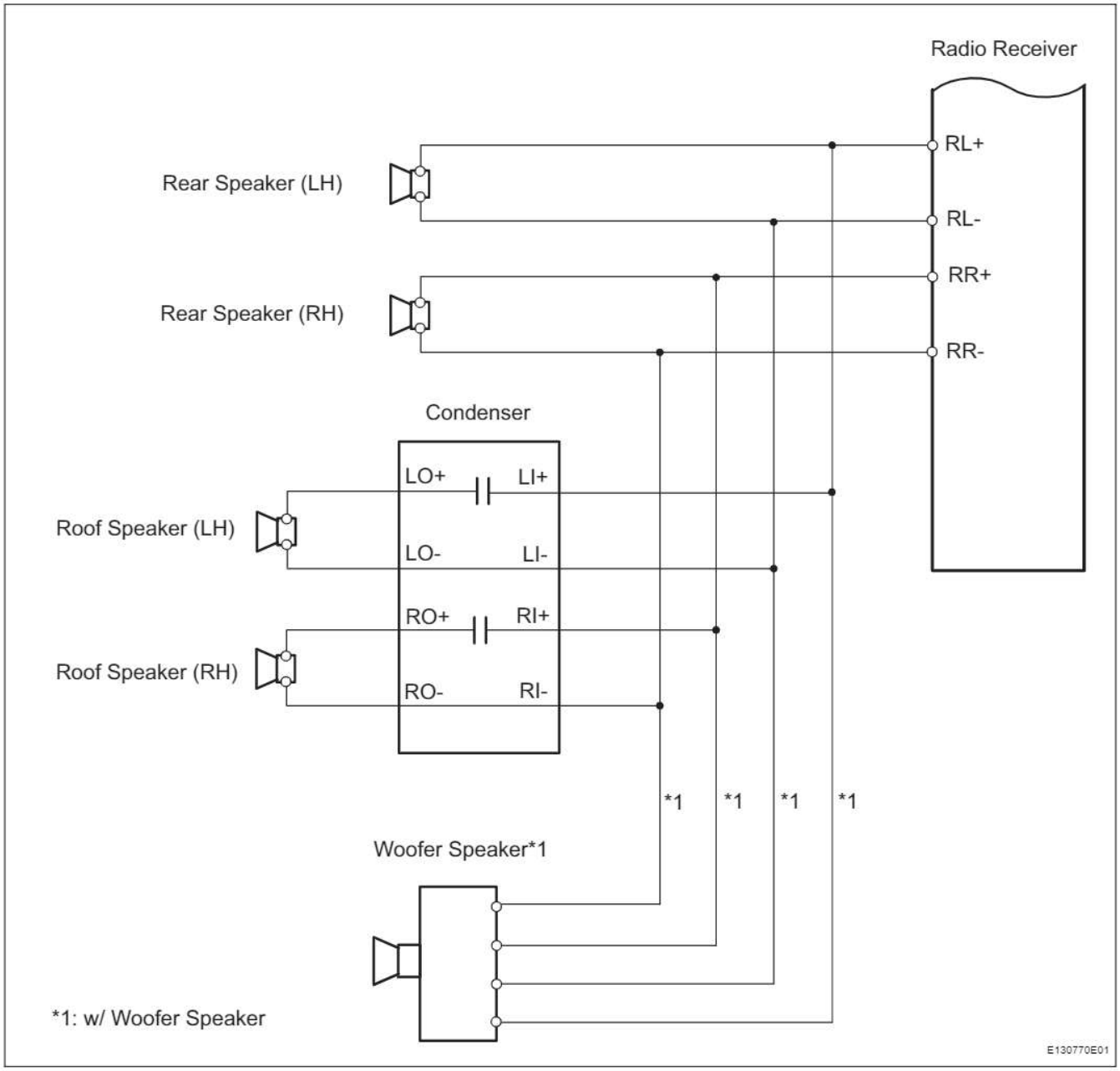
DESCRIPTION

Sound signals that have been amplified by the stereo component amplifier are sent to the speakers from the radio receiver through this circuit. If there is a short in this circuit, the sound cannot be heard from the speakers even though there is no malfunction in the speakers.

WIRING DIAGRAM



AV



INSPECTION PROCEDURE

1	CHECK SPEAKER

(a) Check whether sound is emitted from each speaker.

Result

Result	Proceed to
Front No. 1 speakers have problems	A
Front No. 2 speakers have problems	B
Rear speakers have problems	C
Woofer speaker has problems (w/ woofer speaker)	D
Roof speakers have problems	E

B	Go to step 4
C	Go to step 6
D	Go to step 8
E	Go to step 10

A

2 INSPECT FRONT NO. 1 SPEAKERS

(a) Check the left and right front No. 1 speakers (See page AV-58).
OK:
Front No. 1 speakers are normal.

NG → **REPLACE FRONT NO. 1 SPEAKER**

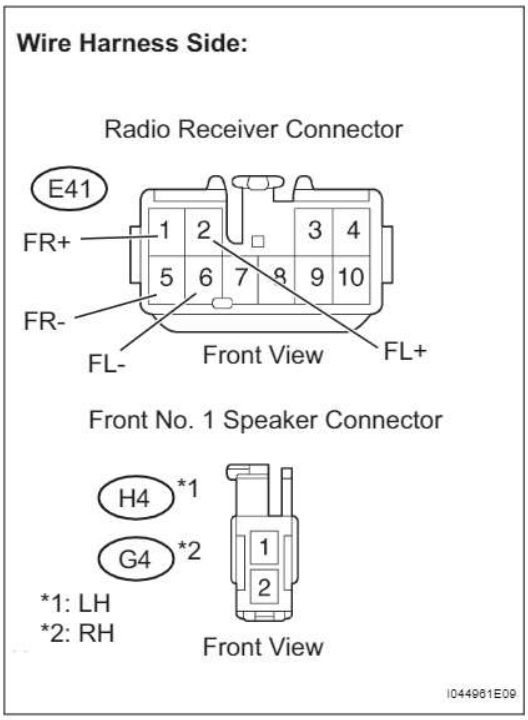
OK

3 CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - FRONT NO. 1 SPEAKER)

(a) Disconnect the E41 receiver connector.
(b) Disconnect the G4 and H4 front No. 1 speaker connectors.
(c) Measure the resistance.
Standard resistance

Tester Connection	Specified Condition
E41-2 (FL+) - H4-1	Below 1 Ω
E41-6 (FL-) - H4-2	Below 1 Ω
E41-2 (FL+) or H4-1 - Body ground	10 kΩ or higher
E41-6 (FL-) or H4-2 - Body ground	10 kΩ or higher
E41-1 (FR+) - G4-1	Below 1 Ω
E41-5 (FR-) - G4-2	Below 1 Ω
E41-1 (FR+) or G4-1 - Body ground	10 kΩ or higher
E41-5 (FR-) or G4-2 - Body ground	10 kΩ or higher

(d) Reconnect the receiver connector.
(e) Reconnect the front No. 1 speaker connectors.



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

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

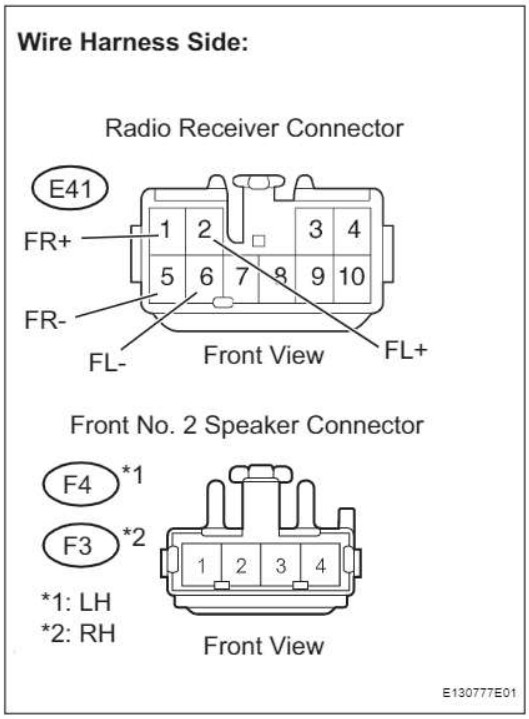
4	INSPECT FRONT NO. 2 SPEAKERS

(a) Check the left and right front No. 2 speakers (See page AV-61).
OK:
Front No. 2 speakers are normal.

NG → **REPLACE FRONT NO. 2 SPEAKER**

OK

5	CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - FRONT NO. 2 SPEAKER)



(a) Disconnect the E41 receiver connector.
(b) Disconnect the F3 and F4 front No. 2 speaker connectors.
(c) Measure the resistance.
Standard resistance

Tester Connection	Specified Condition
E41-2 (FL+) - F4-4	Below 1 Ω
E41-6 (FL-) - F4-3	Below 1 Ω
E41-2 (FL+) or F4-4 - Body ground	10 kΩ or higher
E41-6 (FL-) or F4-3 - Body ground	10 kΩ or higher
E41-1 (FR+) - F3-4	Below 1 Ω
E41-5 (FR-) - F3-3	Below 1 Ω
E41-1 (FR+) or F3-4 - Body ground	10 kΩ or higher
E41-5 (FR-) or F3-3 - Body ground	10 kΩ or higher

(d) Reconnect the receiver connector.
(e) Reconnect the front No. 2 speaker connectors.

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

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

6	INSPECT REAR SPEAKERS

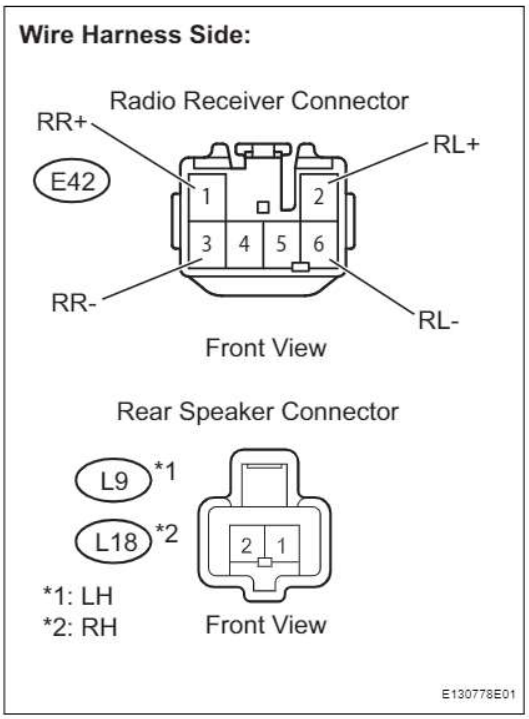
(a) Check the left and right rear speakers (See page AV-69).
OK:
Rear speakers are normal.

NG → **REPLACE REAR SPEAKER**

OK

AV

7 CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - REAR SPEAKER)



(a) Disconnect the E42 receiver connector.
(b) Disconnect the L9 and L18 rear speaker connectors.
(c) Measure the resistance.
Standard resistance

Tester Connection	Specified Condition
E42-2 (RL+) - L9-1	Below 1 Ω
E42-6 (RL-) - L9-2	Below 1 Ω
E42-2 (RL+) or L9-1 - Body ground	10 kΩ or higher
E42-6 (RL-) or L9-2 - Body ground	10 kΩ or higher
E42-1 (RR+) - L18-1	Below 1 Ω
E42-3 (RR-) - L18-2	Below 1 Ω
E42-1 (RR+) or L18-1 - Body ground	10 kΩ or higher
E42-3 (RR-) or L18-2 - Body ground	10 kΩ or higher

(d) Reconnect the receiver connector.
(e) Reconnect the rear speaker connectors.

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

OK

AV **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

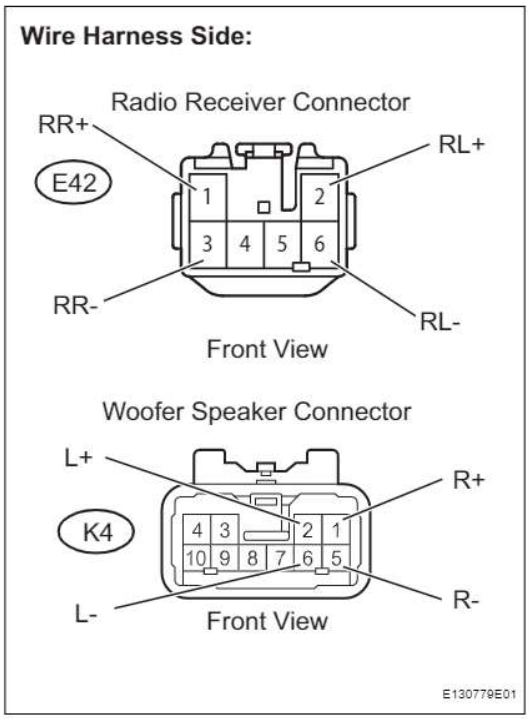
8 INSPECT WOOFER SPEAKER

(a) Check the woofer speaker.
OK:
Woofer speaker is normal.

NG → **REPLACE WOOFER SPEAKER**

OK

9	CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - WOOFER SPEAKER)



(a) Disconnect the E42 receiver connector.
(b) Disconnect the K4 woofer speaker connector.
(c) Measure the resistance.
Standard resistance

Tester Connection	Specified Condition
E42-2 (RL+) - K4-2 (L+)	Below 1 Ω
E42-6 (RL-) - K4-6 (L-)	Below 1 Ω
E42-2 (RL+) orK4-2 (L+) - Body ground	10 kΩ or higher
E42-6 (RL-) or K4-6 (L-) - Body ground	10 kΩ or higher
E42-1 (RR+) - K4-1 (R+)	Below 1 Ω
E42-3 (RR-) - K4-5 (R-)	Below 1 Ω
E42-1 (RR+) or K4-1 (R+) - Body ground	10 kΩ or higher
E42-3 (RR-) or K4-5 (R-) - Body ground	10 kΩ or higher

(d) Reconnect the receiver connector.
(e) Reconnect the woofer speaker connector.

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

AV

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

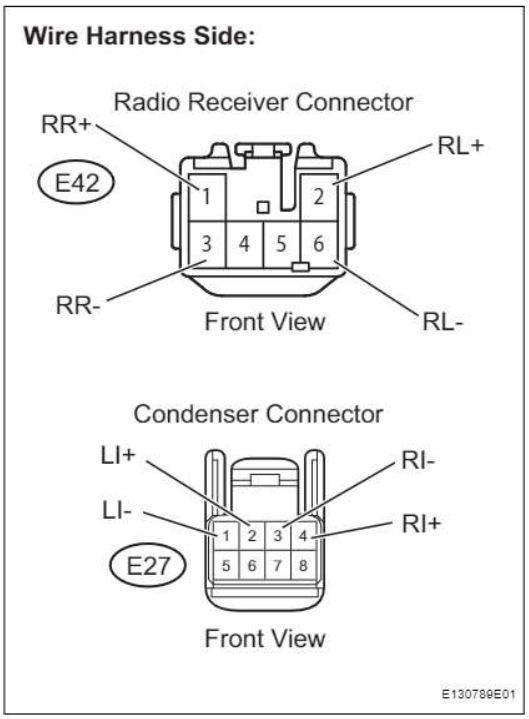
10	INSPECT ROOF SPEAKERS

(a) Check the left and right roof speakers (See page AV-82).
OK:
Roof speakers are normal.

NG → REPLACE ROOF SPEAKER

OK

11 CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - CONDENSER)



(a) Disconnect the E42 receiver connector.
(b) Disconnect the E27 condenser connector.
(c) Measure the resistance.
Standard resistance

Tester Connection	Specified Condition
E42-2 (RL+) - E27-2 (LI+)	Below 1 Ω
E42-6 (RL-) - E27-1 (LI-)	Below 1 Ω
E42-2 (RL+) or E27-2 (LI+) - Body ground	10 kΩ or higher
E42-6 (RL-) or E27-1 (LI-) - Body ground	10 kΩ or higher
E42-1 (RR+) - E27-4 (RI+)	Below 1 Ω
E42-3 (RR-) - E27-3 (RI-)	Below 1 Ω
E42-1 (RR+) or E27-4 (RI+) - Body ground	10 kΩ or higher
E42-3 (RR-) or E27-3 (RI-) - Body ground	10 kΩ or higher

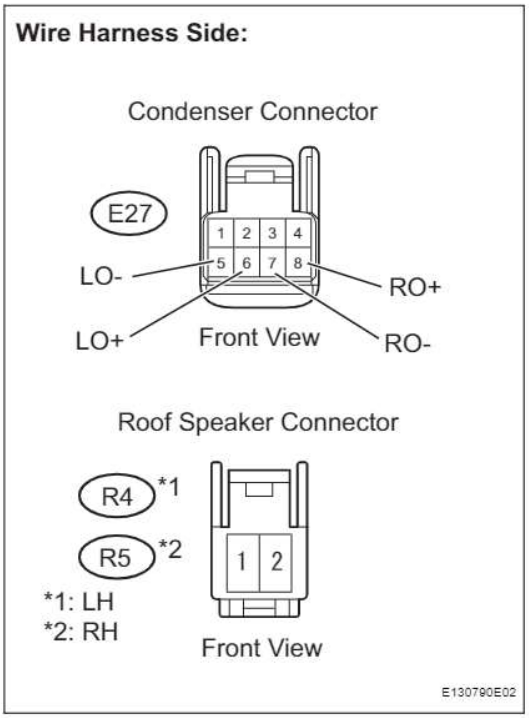
(d) Reconnect the receiver connector.
(e) Reconnect the condenser connector.

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

OK

AV

12 CHECK HARNESS AND CONNECTOR (CONDENSER - ROOF SPEAKER)



(a) Disconnect the E42 receiver connector.
(b) Disconnect the E27 condenser connector.
(c) Measure the resistance.
Standard resistance

Tester Connection	Specified Condition
E27-2 (LO+) - R4-1	Below 1 Ω
E27-5 (LO-) - R4-2	Below 1 Ω
E27-2 (LO+) or R4-1 - Body ground	10 kΩ or higher
E27-5 (LO-) or R4-2 - Body ground	10 kΩ or higher
E27-8 (RO+) - R5-1	Below 1 Ω
E27-7 (RO-) - R5-2	Below 1 Ω
E27-8 (RO+) or R5-1 - Body ground	10 kΩ or higher
E27-7 (RO-) or R5-2 - Body ground	10 kΩ or higher

(d) Reconnect the receiver connector.
(e) Reconnect the condenser connector.

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

OK

13	REPLACE CONDENSER

(a) Temporarily replace the condenser with a new or normally functioning one.
(b) Check that the sound is normal.
OK:
Sound is normal.

NG → END

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

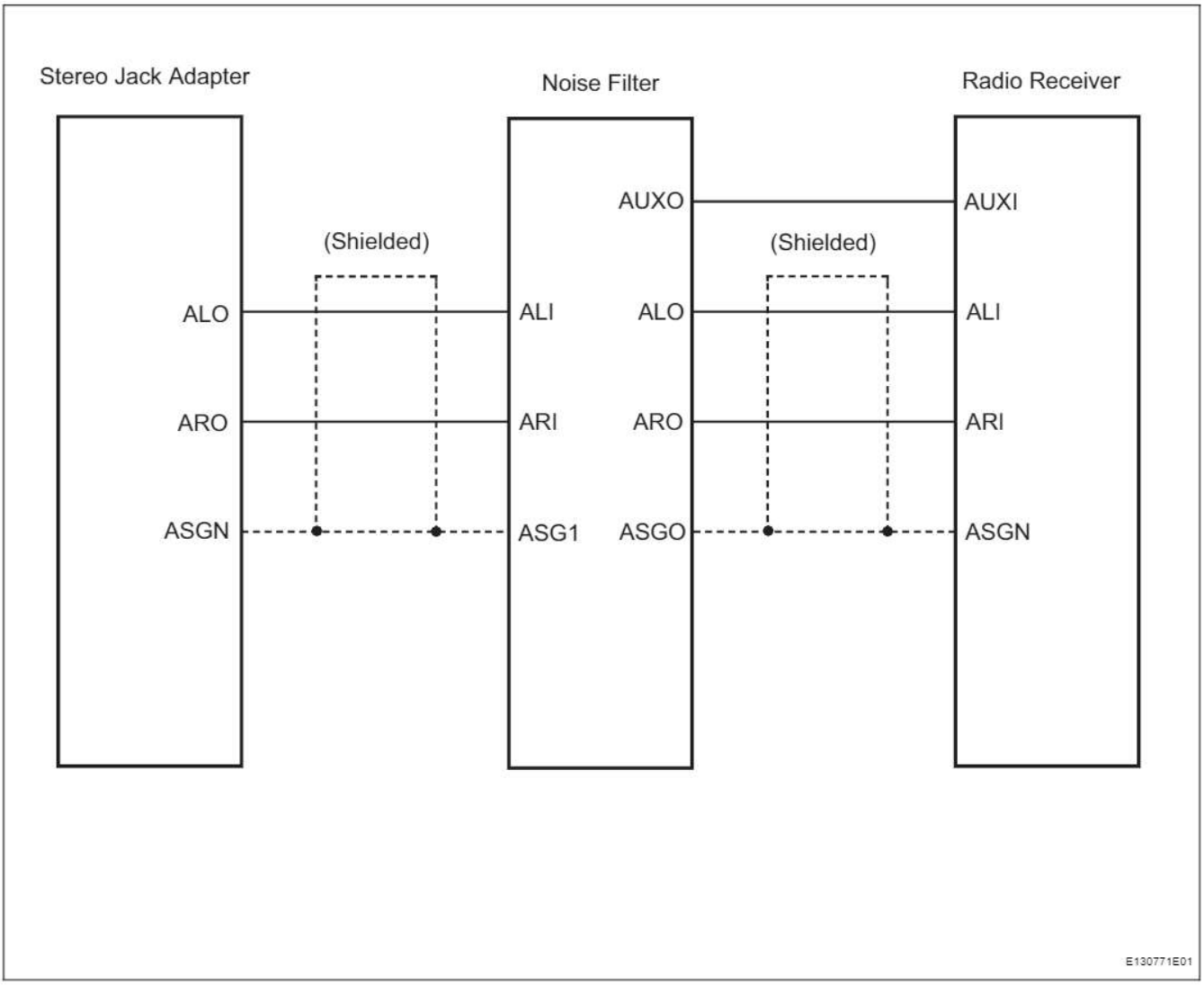
AV

Sound Signal Circuit between Radio Receiver and Stereo Jack Adapter

DESCRIPTION

The stereo jack adapter sends an external device sound signal to the radio receiver through this circuit. The sound signal that has been sent is amplified by the stereo component amplifier, and then is sent to the speakers.
If there is an open or short in the circuit, sound cannot be heard from the speakers even if there is no malfunction in the stereo component amplifier, radio receiver, or speakers.

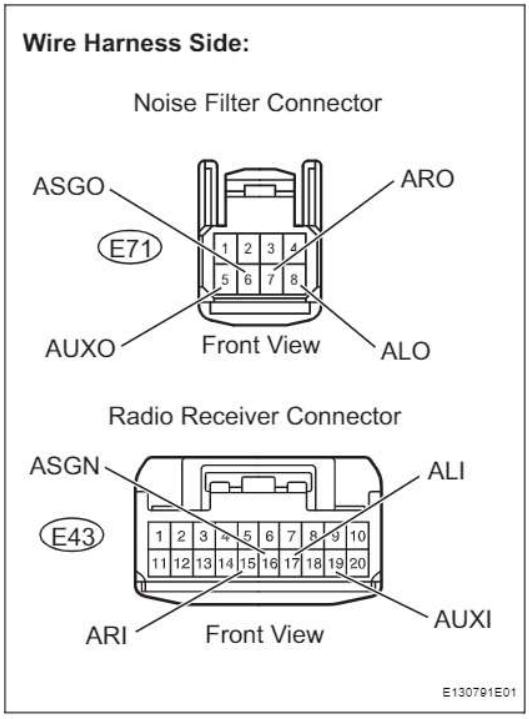
WIRING DIAGRAM



AV

INSPECTION PROCEDURE

1 CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - NOISE FILTER)



(a) Disconnect the E71 noise filter and E43 radio receiver connectors.
(b) Measure the resistance.
Standard resistance

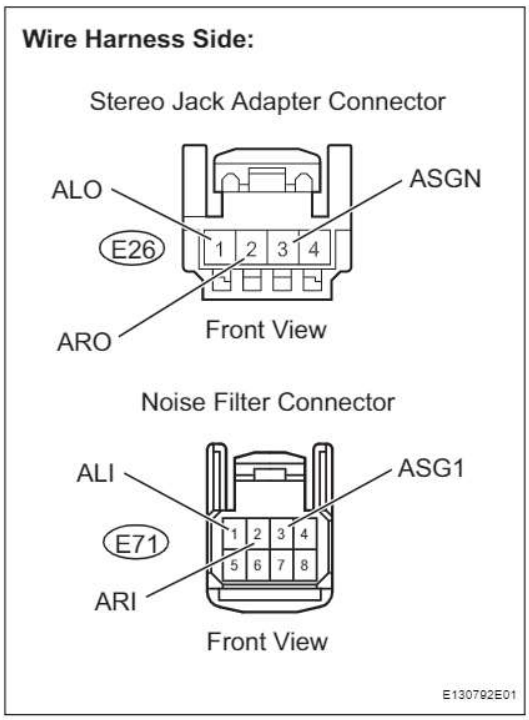
Tester connection	Specified condition
E71-5 (AUXO) - E43-19 (AUXI)	Below 1 Ω
E71-8 (ALO) - E43-17 (ALI)	Below 1 Ω
E71-7 (ARO) - E43-15 (ARI)	Below 1 Ω
E71-6 (ASGO) - E43-16 (ASGN)	Below 1 Ω
E71-5 (AUXO) or E43-19 (AUXI) - Body ground	10 kΩ or higher
E71-8 (ALO) or E43-17 (ALI) - Body ground	10 kΩ or higher
E71-7 (ARO) or E43-15 (ARI) - Body ground	10 kΩ or higher
E71-6 (ASGO) or E43-16 (ASGN) - Body ground	10 kΩ or higher

(c) Reconnect the noise filter connector.
(d) Reconnect the radio receiver connector.

MG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

2 CHECK HARNESS AND CONNECTOR (NOISE FILTER - STEREO JACK ADAPTER)



(a) Disconnect the E26 stereo jack adapter and E71 noise filter connectors.
(b) Measure the resistance.
Standard resistance

Tester connection	Specified condition
E26-1 (ALO) - E71-1 (ALI)	Below 1 Ω
E26-2 (ARO) - E71-2 (ARI)	Below 1 Ω
E26-3 (ASGN) - E71-3 (ASG1)	Below 1 Ω
E26-1 (ALO) or E71-1 (ALI) - Body ground	10 kΩ or higher
E26-2 (ARO) or E71-2 (ARI) - Body ground	10 kΩ or higher
E26-3 (ASGN) or E71-3 (ASG1) - Body ground	10 kΩ or higher

(c) Reconnect the stereo jack adapter connector.
(d) Reconnect the noise filter connector.

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

AV

OK

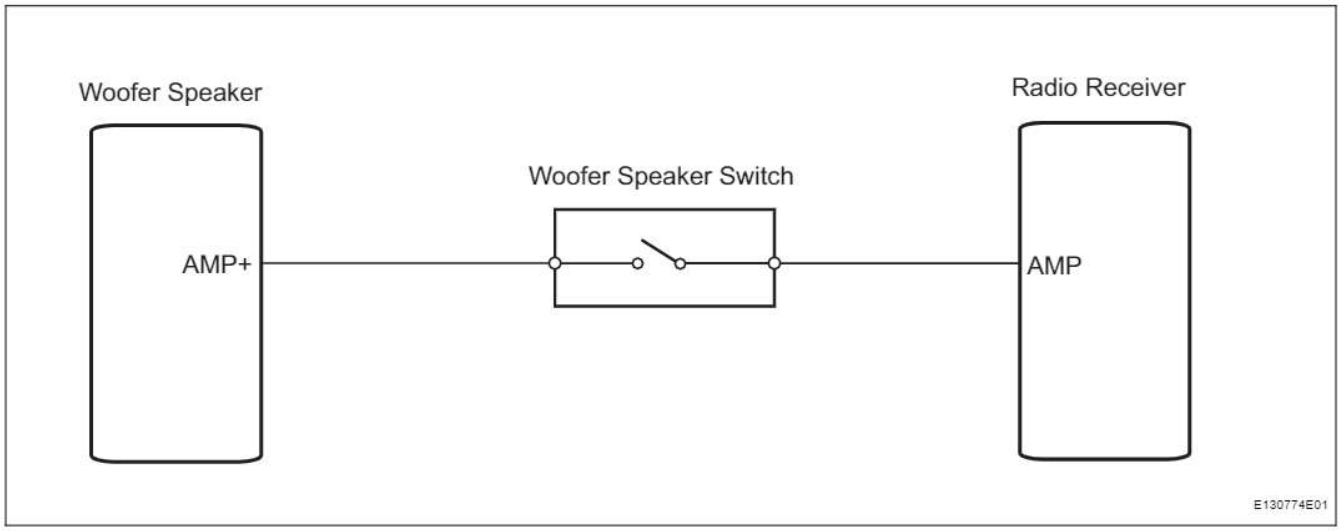
PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

Woofer Speaker Switch Circuit

DESCRIPTION

This is the circuit between the radio receiver and the woofer speaker. When the woofer speaker switch is turned ON and OFF, the woofer speaker is activated and deactivated through control of the signals between the receiver and the woofer speaker.
If there is an open or short in the circuit, sound cannot be heard from the woofer speaker even if there is no malfunction in the radio receiver or woofer speaker.

WIRING DIAGRAM



INSPECTION PROCEDURE

AV

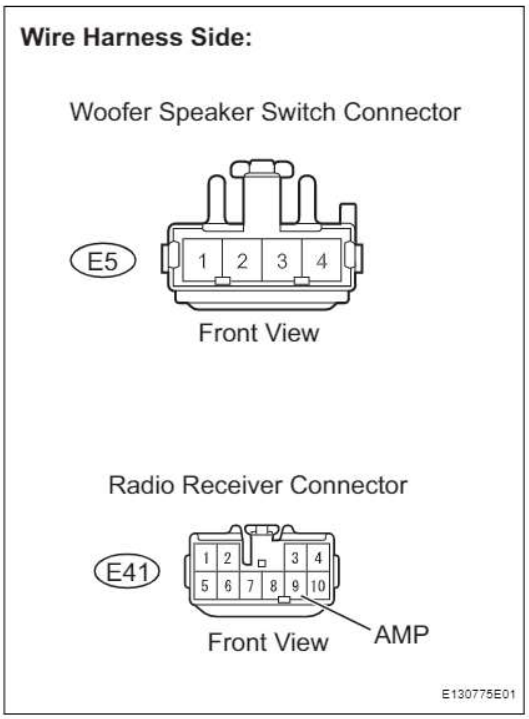
1	INSPECT WOOFER SPEAKER SWITCH

(a) Check the woofer speaker switch (See page AV-127).
OK:
Woofer speaker switch is normal.

NG → **REPLACE WOOFER SPEAKER SWITCH**

OK

2	CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - WOOFER SPEAKER SWITCH)



(a) Disconnect the E41 receiver connector.
(b) Disconnect the E5 woofer speaker switch connector.
(c) Measure the resistance.
Standard resistance

Tester Connection	Specified Condition
E41-9 (AMP) - E5-3	Below 1 Ω
E41-9 (AMP) or E5-3 - Body ground	10 kΩ or higher

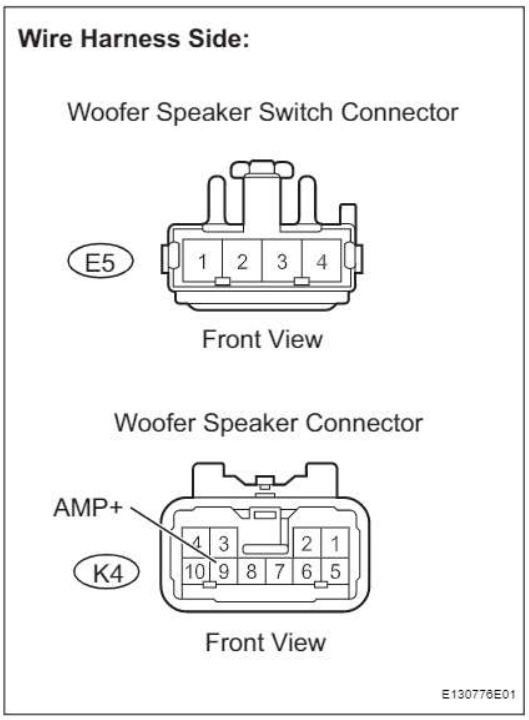
(d) Reconnect the receiver connector.
(e) Reconnect the woofer speaker switch connector.

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

OK

AV

3	CHECK HARNESS AND CONNECTOR (WOOFER SPEAKER - WOOFER SPEAKER SWITCH)



(a) Disconnect the K4 woofer speaker connector.
(b) Disconnect the E5 woofer speaker switch connector.
(c) Measure the resistance.
Standard resistance

Tester Connection	Specified Condition
K4-9 (AMP+) - E5-4	Below 1 Ω
K4-9 (AMP+) or E5-4 - Body ground	10 kΩ or higher

(d) Reconnect the woofer speaker connector.
(e) Reconnect the woofer speaker switch connector.

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

OK

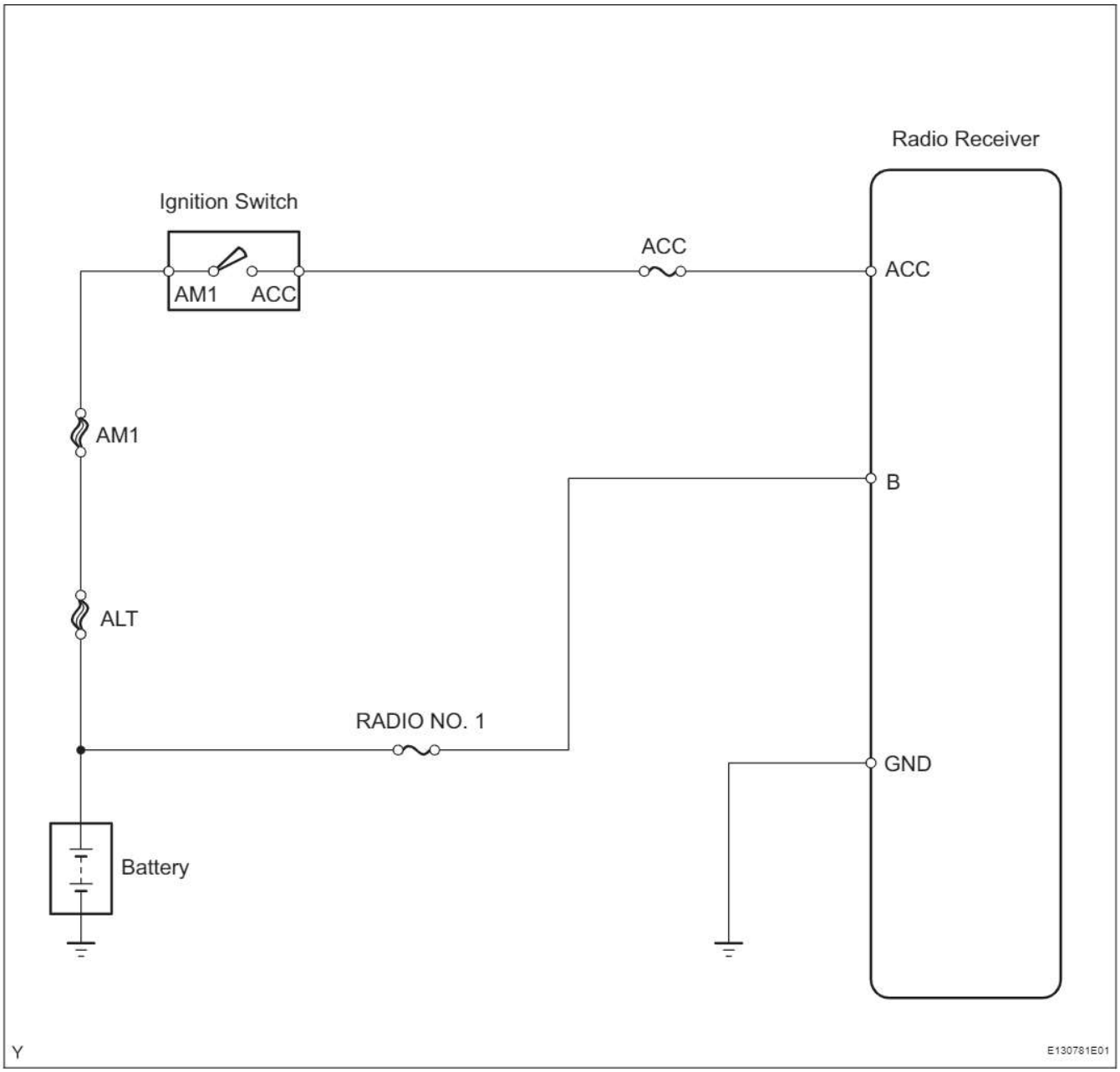
PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

Radio Receiver Power Source Circuit

DESCRIPTION

This circuit provides power to the radio receiver.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	INSPECT FUSE (ACC, AM1, RADIO NO. 1)

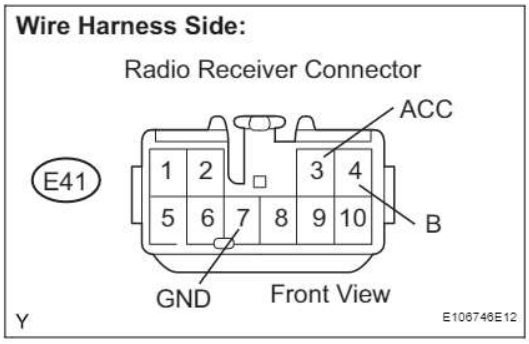
(a) Remove the ACC fuse from the main body ECU.
(b) Remove the AM1 fuse and RADIO NO. 1 fuse from the engine room R/B.

(c) Measure the resistance of the fuses.
Standard resistance:
Below 1 Ω
(d) Reinstall the fuses.

NG → **REPLACE FUSE**

OK

2	CHECK HARNESS AND CONNECTOR (RADIO RECEIVER - BATTERY AND BODY GROUND)



(a) Disconnect the E41 receiver connector.
(b) Measure the voltage.
Standard voltage

Tester Connection	Condition	Specified Condition
E41-4 (B) - Body ground	Always	11 to 14 V
E41-3 (ACC) - Body ground	Ignition switch ACC	11 to 14 V

(c) Measure the resistance.
Standard resistance

Tester Connection	Specified Condition
E41-7 (GND) - Body ground	Below 1 Ω

(d) Reconnect the receiver connector.

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

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

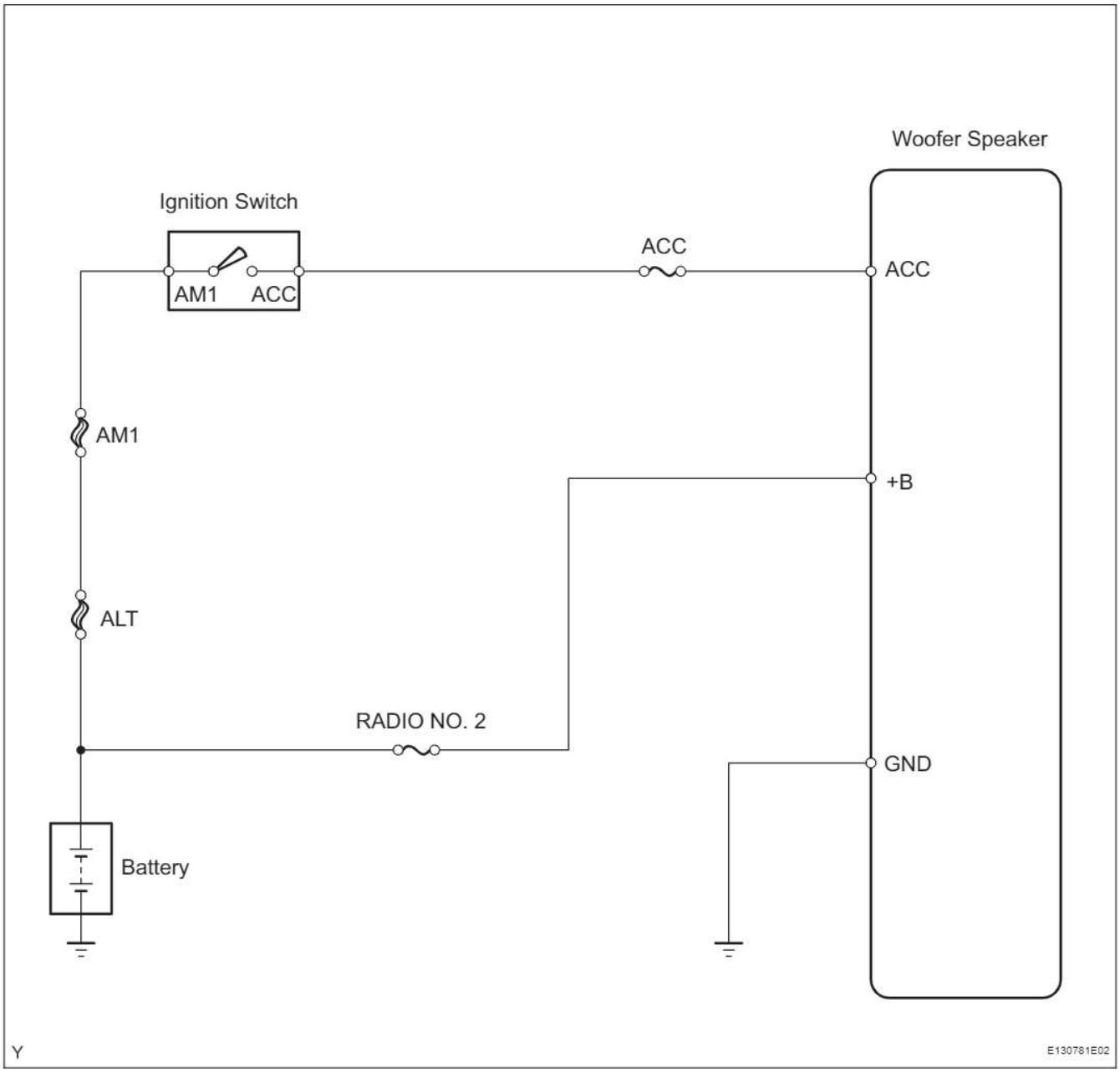
AV

Woofer Speaker Power Source Circuit

DESCRIPTION

This circuit provides power to the woofer speaker.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	INSPECT FUSE (ACC, AM1, RADIO NO. 2)

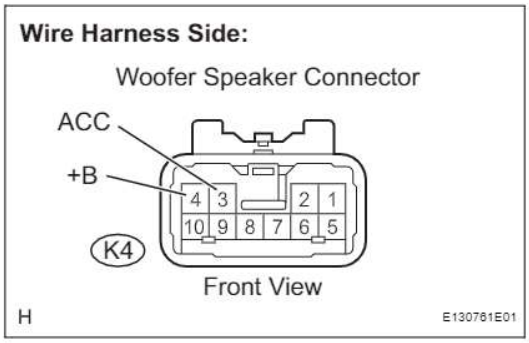
(a) Remove the ACC fuse from the main body ECU.
(b) Remove the AM1 fuse and RADIO NO. 2 fuse from the engine room R/B.

(c) Measure the resistance of the fuses.
Standard resistance:
Below 1 Ω
(d) Reinstall the fuses.

NG → **REPLACE FUSE**

OK

2	CHECK HARNESS AND CONNECTOR (WOOFER SPEAKER - BATTERY AND BODY GROUND)



(a) Disconnect the K4 woofer speaker connector.
(b) Measure the voltage.
Standard voltage

Tester Connection	Condition	Specified Condition
K4-4 (+B) - Body ground	Always	11 to 14 V
K4-3 (ACC) - Body ground	Ignition switch ACC	11 to 14 V

(c) Measure the resistance.
Standard resistance

Tester Connection	Specified Condition
K4-7 (GND) - Body ground	Below 1 Ω

(d) Reconnect the woofer speaker connector.

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

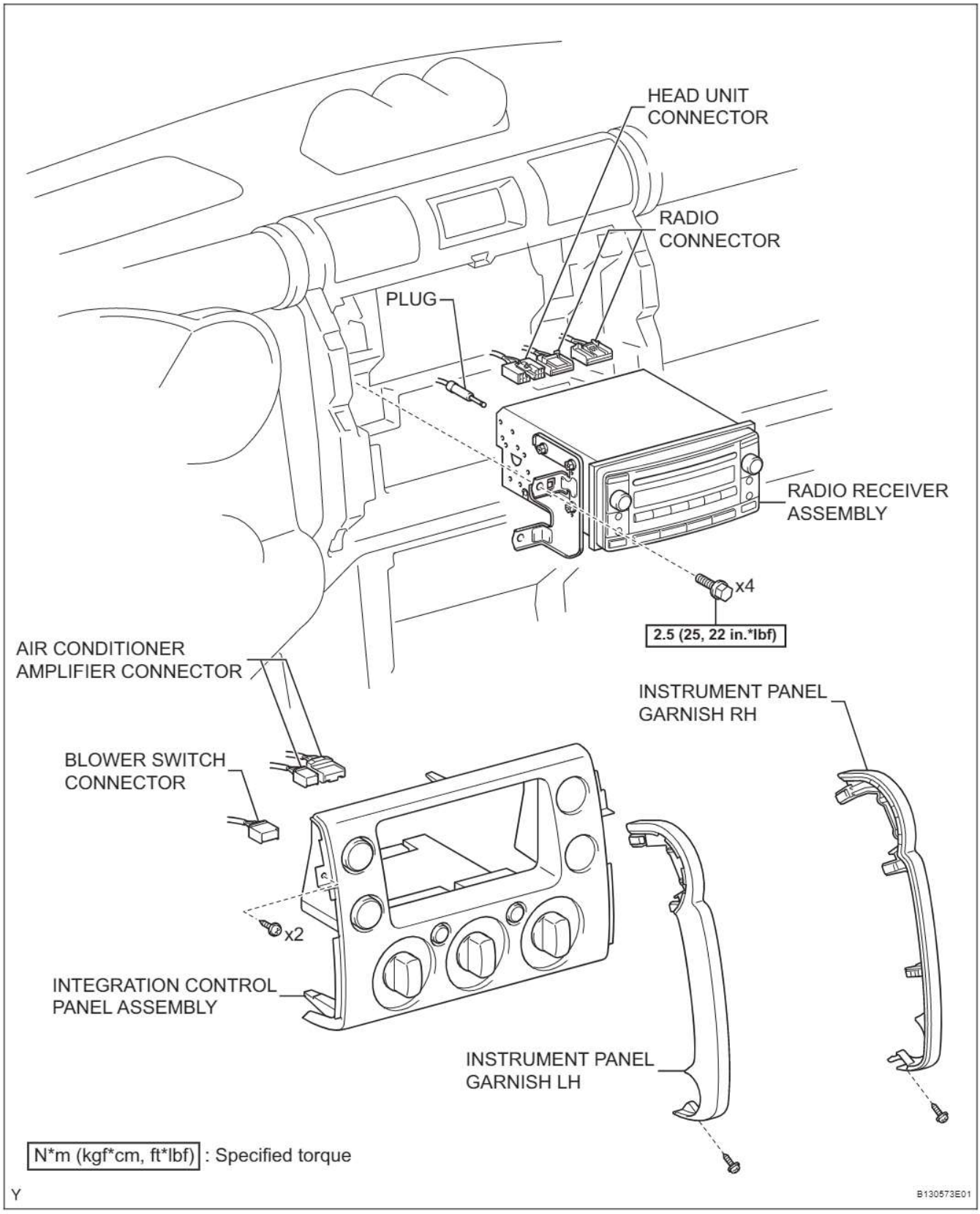
OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

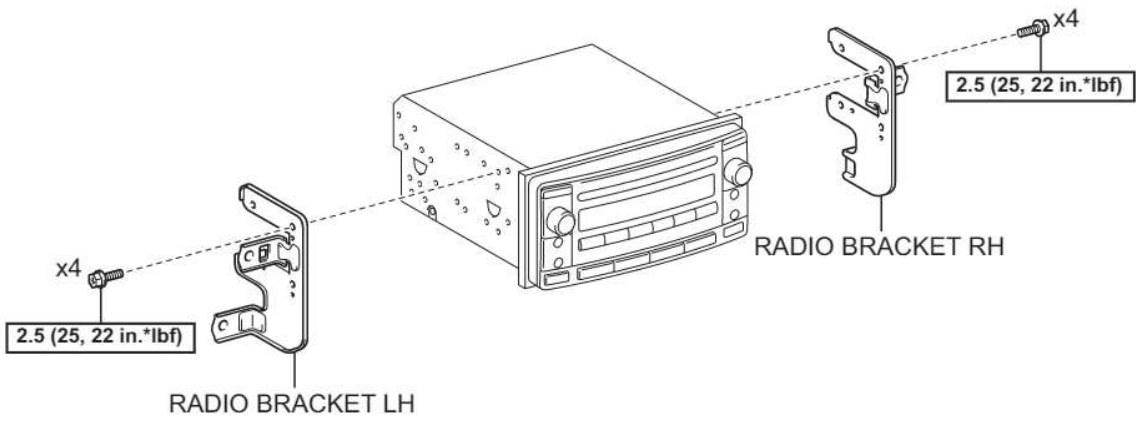
AV

RADIO RECEIVER

COMPONENTS



AV



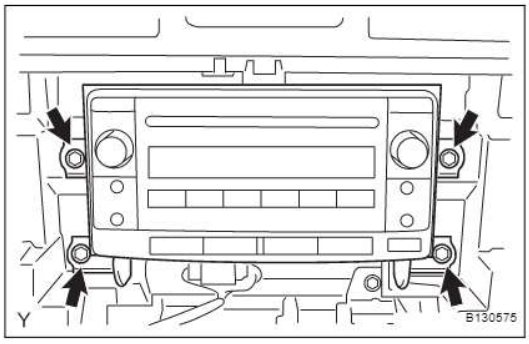
N*m (kgf*cm, ft*lbf) : Specified torque

Y

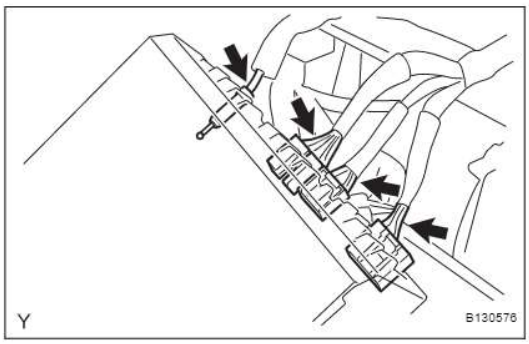
B130574E01

REMOVAL

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
2. **REMOVE INSTRUMENT PANEL GARNISH RH (See page IP-10)**
3. **REMOVE INSTRUMENT PANEL GARNISH LH (See page IR-18)**
4. **REMOVE INTEGRATION CONTROL PANEL ASSEMBLY (See page SB-2)**
5. **REMOVE RADIO RECEIVER ASSEMBLY**
   (a) Remove the 4 bolts and the radio receiver.

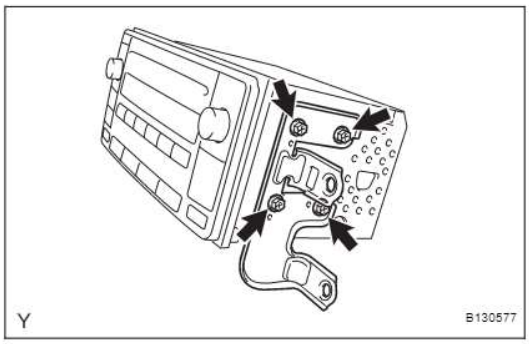


(b) Disconnect the plug, the head unit connector and the 2 radio connectors.

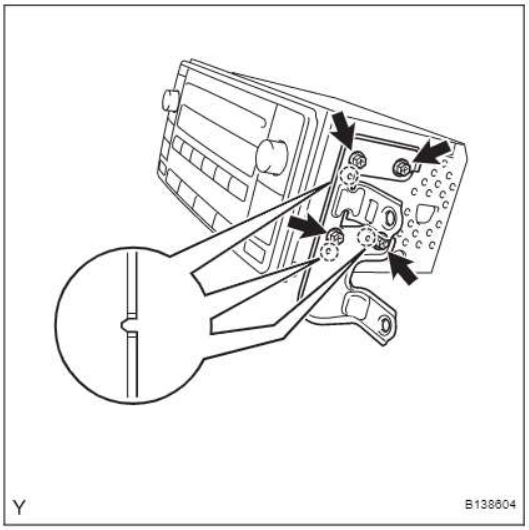


DISASSEMBLY

1. **REMOVE RADIO BRACKET RH**
   (a) Remove the 4 screws and the radio bracket.
2. **REMOVE RADIO BRACKET LH**
   HINT:
   Use the same procedure as for the RH side.

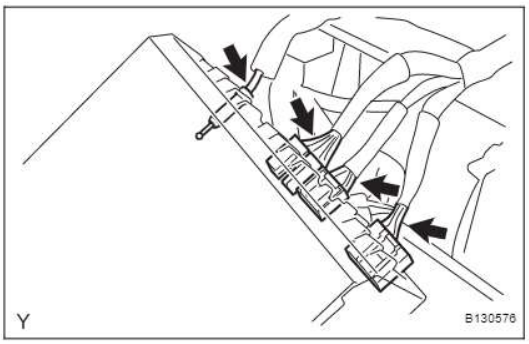


AV



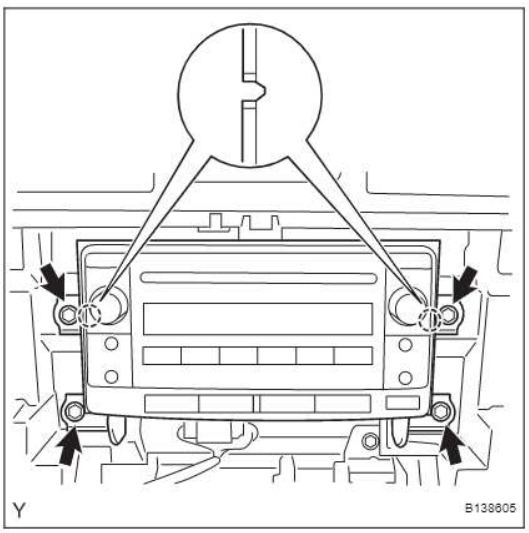
REASSEMBLY

1. **INSTALL RADIO BRACKET RH**
   (a) Align the 4 bosses of the radio bracket with the hole in the radio receiver and install the radio bracket with the 4 screws.
   Torque: 2.5 N*m (25 kgf*cm, 22 in.*lbf)
2. **INSTALL RADIO BRACKET LH**
   HINT:
   Use the same procedure as for the RH side.



INSTALLATION

1. **INSTALL RADIO RECEIVER ASSEMBLY**
   (a) Connect the plug, the head unit connector and the 2 radio connectors.

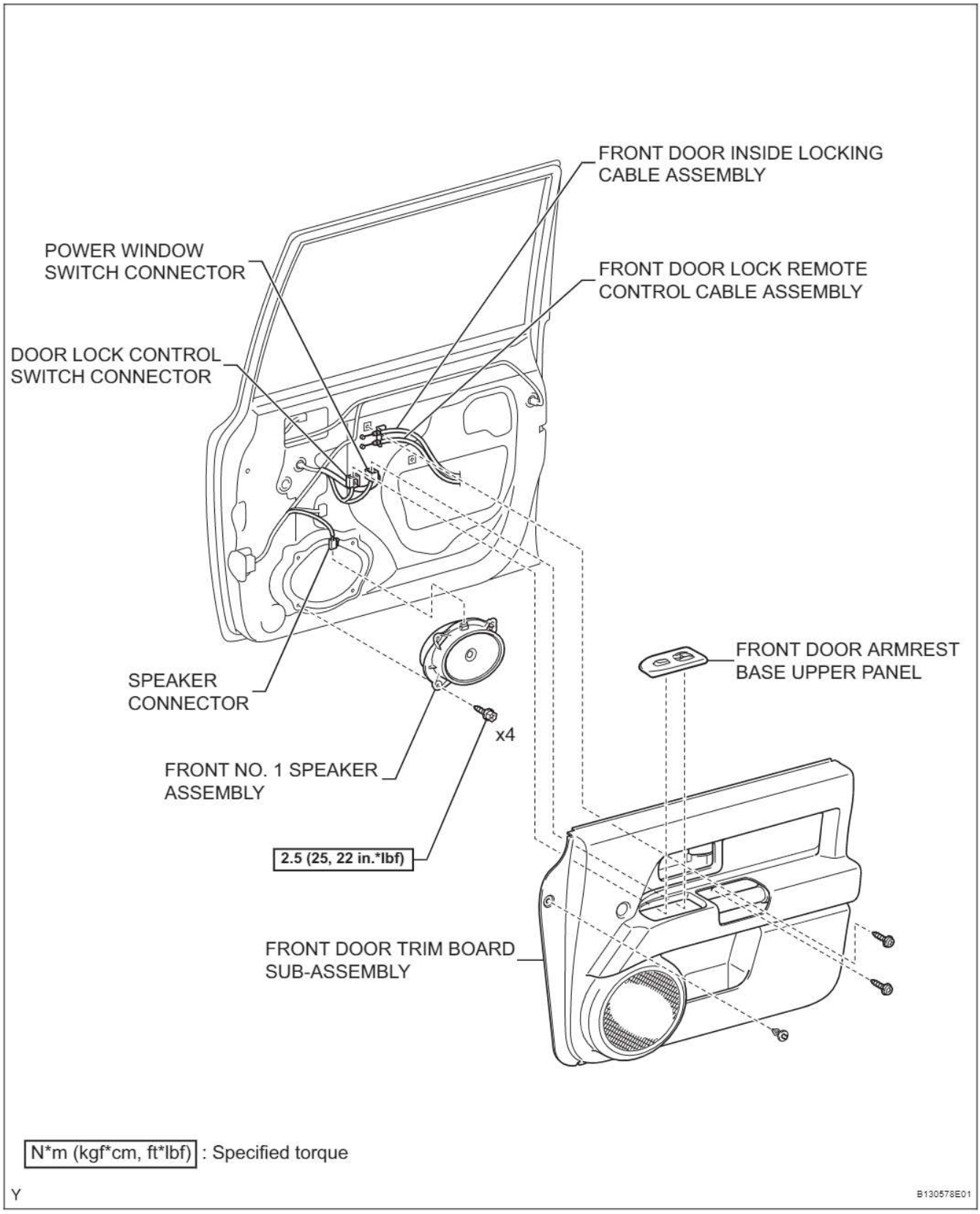


   (b) Align the 2 bosses of the radio bracket with the hole in the instrument panel and install the radio receiver with the 4 bolts.
   Torque: 2.5 N*m (25 kgf*cm, 22 in.*lbf)
2. **INSTALL INTEGRATION CONTROL PANEL ASSEMBLY (See page SB-3)**
3. **INSTALL INSTRUMENT PANEL GARNISH RH (See page IP-33)**
4. **INSTALL INSTRUMENT PANEL GARNISH LH (See page IP-33)**
5. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
   Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)

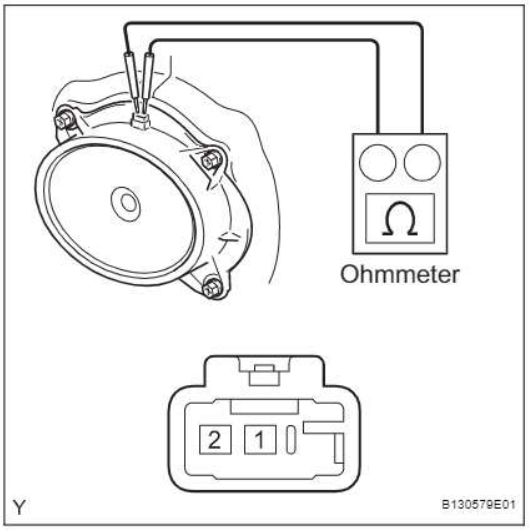
AV

FRONT NO. 1 SPEAKER

COMPONENTS



AV



ON-VEHICLE INSPECTION

1. INSPECT FRONT NO. 1 SPEAKER ASSEMBLY

HINT:

Remove interior parts so that the front No. 1 speaker can be seen.

(a) Check the speaker installation.

OK:

The speaker is securely installed.

If the result is not as specified, reinstall the front No. 1 speaker.

(b) Visually check the speaker.

OK:

The cone paper of the speaker is not torn.

If the result is not as specified, replace the front No. 1 speaker.

(c) Check the resistance.

(1) Disconnect the speaker connector.

(2) Using an ohmmeter, measure the resistance between the terminals.

Standard resistance

Tester Connection	Specified Condition
1 - 2	Approximately 4 Ω

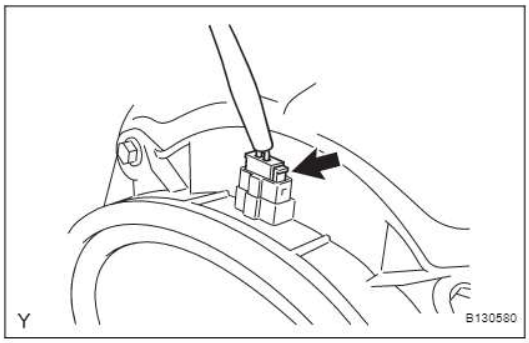
If the result is not as specified, replace the front No. 1 speaker.

AV

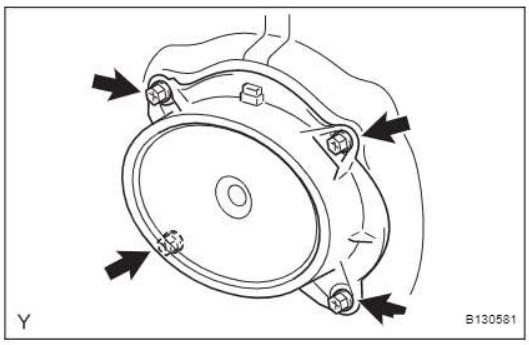
REMOVAL

HINT:
The procedure described below is for the RH side. Use the same procedure for both the RH and LH sides, unless otherwise specified.

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
2. **REMOVE FRONT DOOR ARMREST BASE UPPER PANEL (See page ED-9)**
3. **REMOVE FRONT DOOR TRIM BOARD SUB-ASSEMBLY (See page ED-9)**
4. **REMOVE FRONT NO. 1 SPEAKER ASSEMBLY**
   (a) Disconnect the speaker connector.



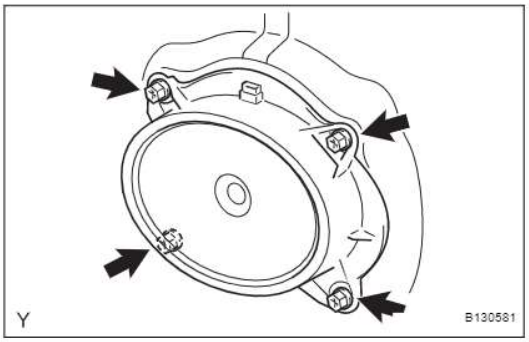
   (b) Remove the 4 screws and the front No. 1 speaker.



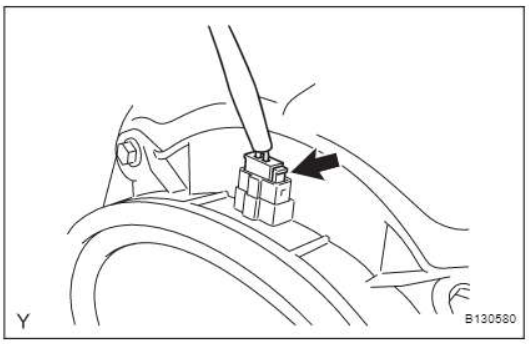
AV

INSTALLATION

HINT:
The procedure described below is for the RH side. Use the same procedure for both the RH and LH sides, unless otherwise specified.



1. **INSTALL FRONT NO. 1 SPEAKER ASSEMBLY**
   (a) Install the front No. 1 speaker with the 4 screws.
   Torque: 2.5 N*m (25 kgf*cm, 22 in.*lbf)



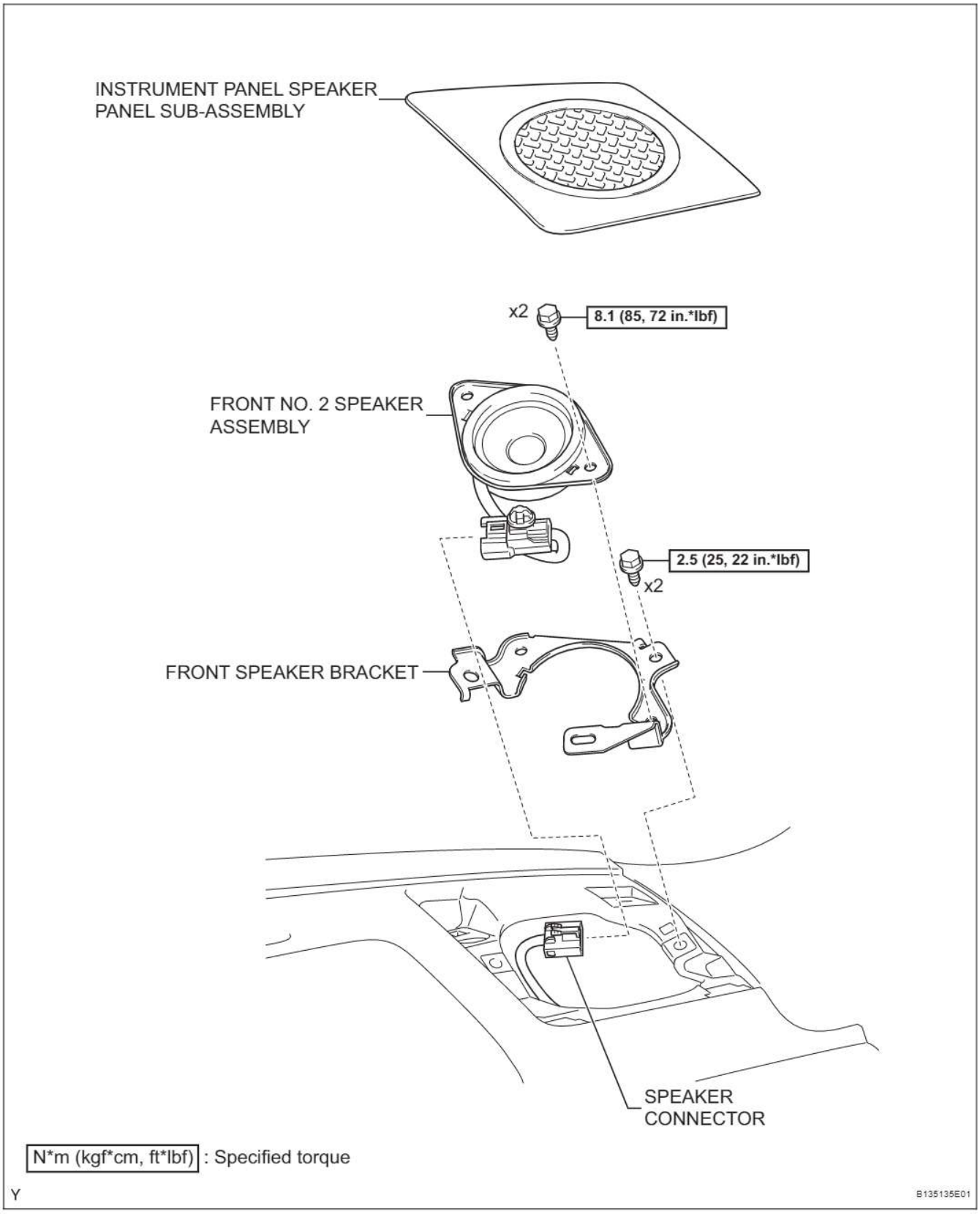
   (b) Connect the speaker connector.

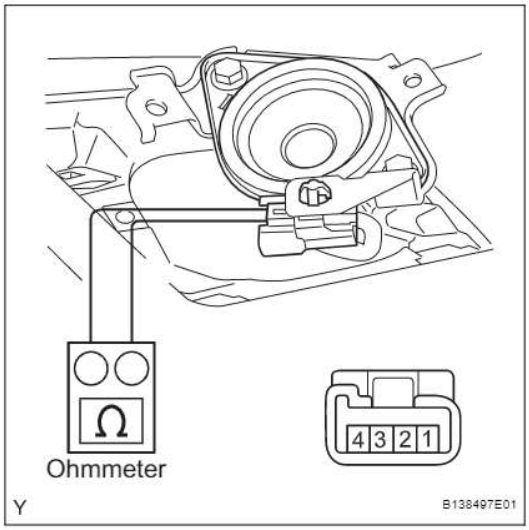
2. **INSTALL FRONT DOOR TRIM BOARD SUB-ASSEMBLY (See page ED-24)**
3. **INSTALL FRONT DOOR ARMREST BASE UPPER PANEL (See page ED-25)**
4. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
   Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)

AV

FRONT NO. 2 SPEAKER

COMPONENTS





ON-VEHICLE INSPECTION

1. INSPECT FRONT NO. 2 SPEAKER ASSEMBLY

HINT:

Remove interior parts so that the front No. 2 speaker can be seen.

(a) Check the speaker installation.

OK:

The speaker is securely installed.

If the result is not as specified, reinstall the front No. 2 speaker.

(b) Visually check the speaker.

OK:

The cone paper of the speaker is not torn.

If the result is not as specified, replace the front No. 2 speaker.

(c) Check the resistance.

(1) Disconnect the speaker connector.

(2) Using an ohmmeter, measure the resistance between the terminals.

Standard resistance

Tester Connection	Specified Condition
3 - 4	Approximately 8 Ω

If the result is not as specified, replace the front No. 2 speaker.

AV

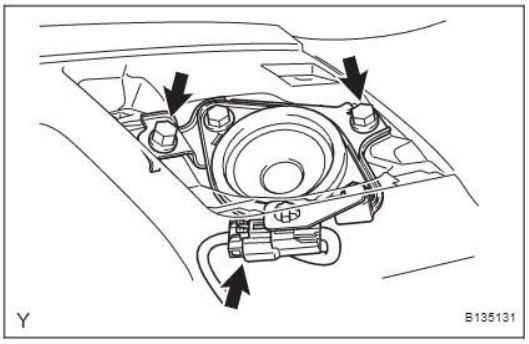
REMOVAL

HINT:
The procedure described below is for the RH side. Use the same procedure for both the RH and LH sides, unless otherwise specified.

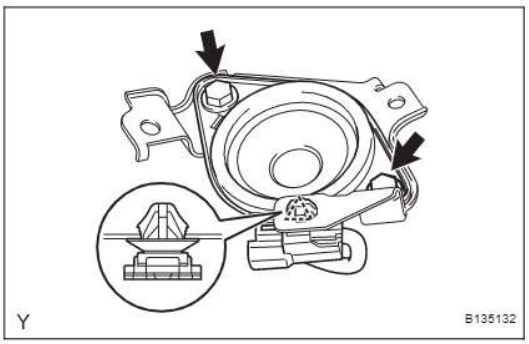
1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**

2. **REMOVE INSTRUMENT PANEL SPEAKER PANEL SUB-ASSEMBLY (See page IP-16)**

3. **REMOVE FRONT SPEAKER BRACKET**
   (a) Remove the 2 bolts and the front speaker bracket.
   (b) Disconnect the speaker connector.



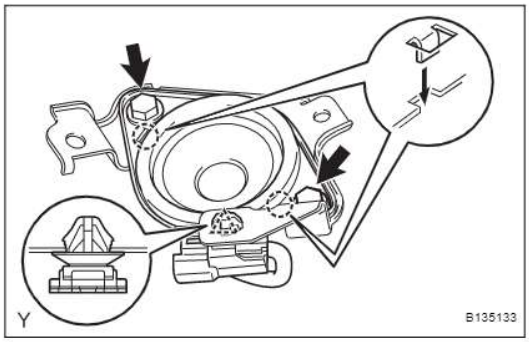
4. **REMOVE FRONT NO. 2 SPEAKER ASSEMBLY**
   (a) Remove the clamp.
   (b) Remove the 2 bolts and the front No. 2 speaker.



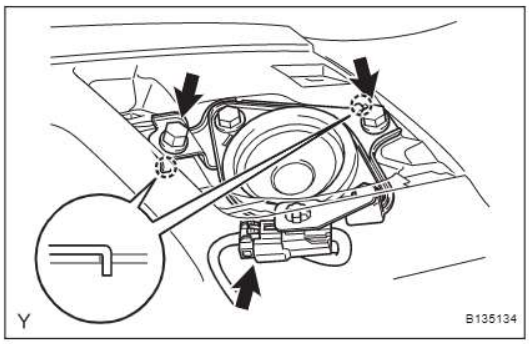
AV

INSTALLATION

HINT:
The procedure described below is for the RH side. Use the same procedure for both the RH and LH sides, unless otherwise specified.



1. INSTALL FRONT NO. 2 SPEAKER ASSEMBLY
(a) Install the clamp.
(b) Insert the 2 hooks into the 2 cutout of the front speaker bracket and install the front No. 2 speaker with the 2 bolts.
Torque: 8.1 N*m (85 kgf*cm, 72 in.*lbf)



2. INSTALL FRONT SPEAKER BRACKET
(a) Connect the speaker connector.
(b) Insert the 2 hooks into the 2 instrument panel holes and install the front speaker bracket with the 2 bolts.
Torque: 2.5 N*m (25 kgf*cm, 22 in.*lbf)

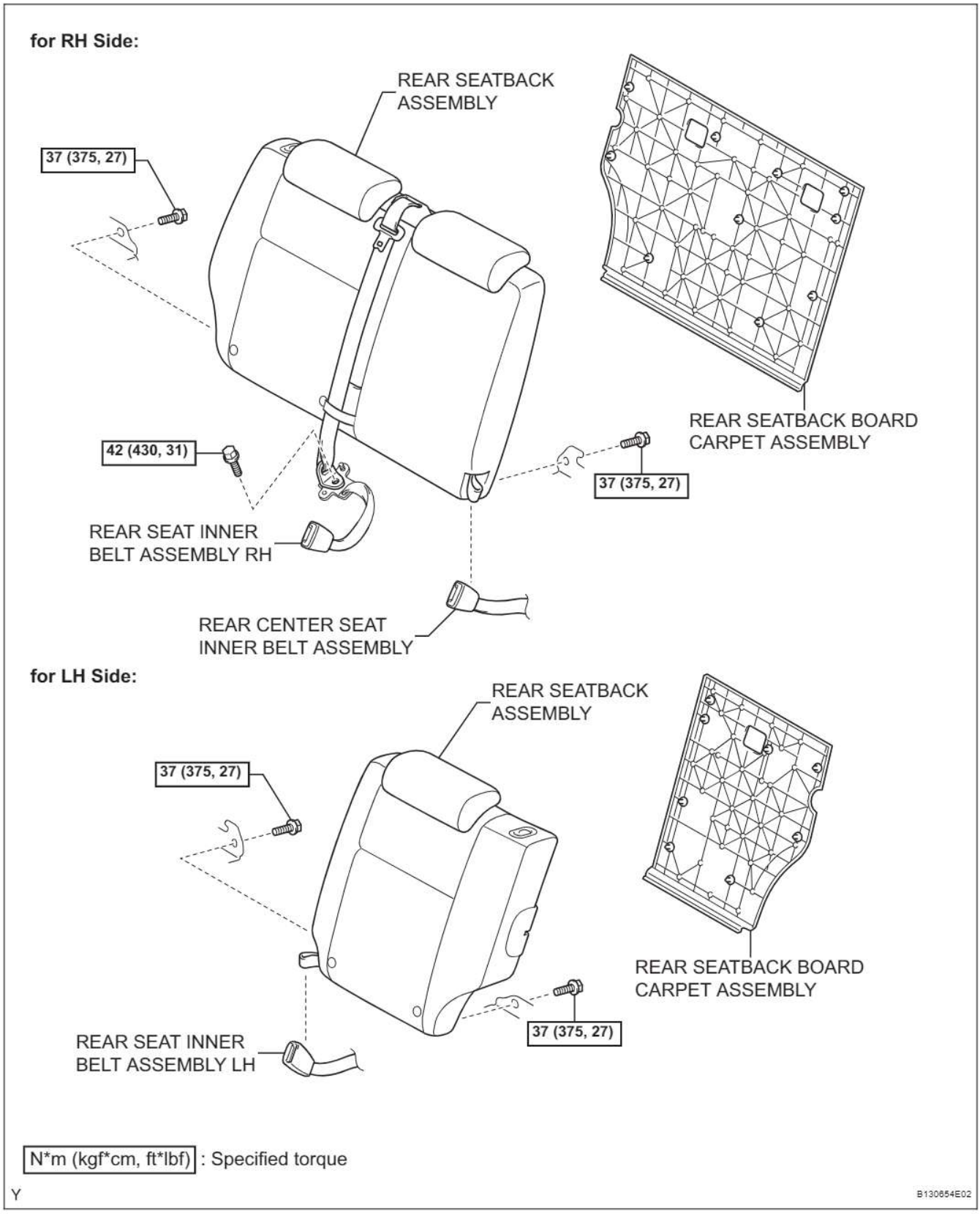
3. INSTALL INSTRUMENT PANEL SPEAKER PANEL SUB-ASSEMBLY (See page IP-27)

4. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL
Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)

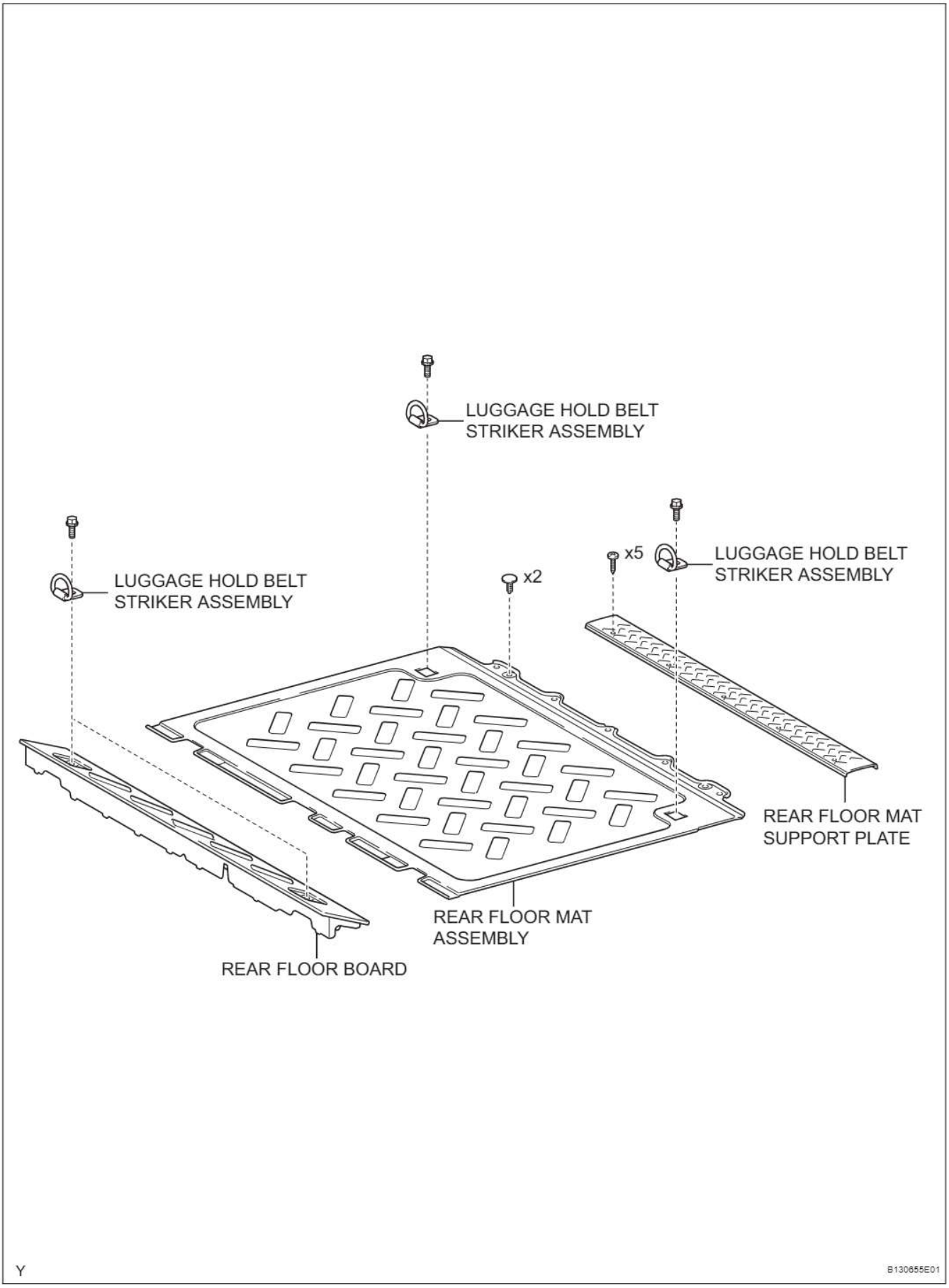
AV

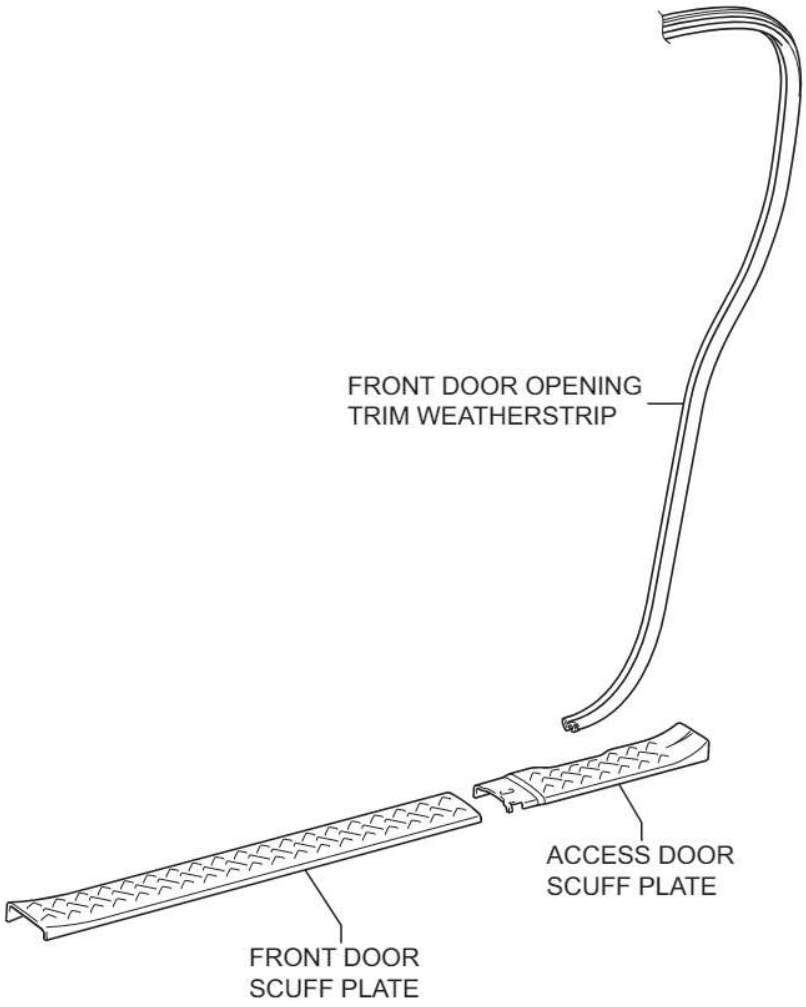
REAR SPEAKER

COMPONENTS



AV

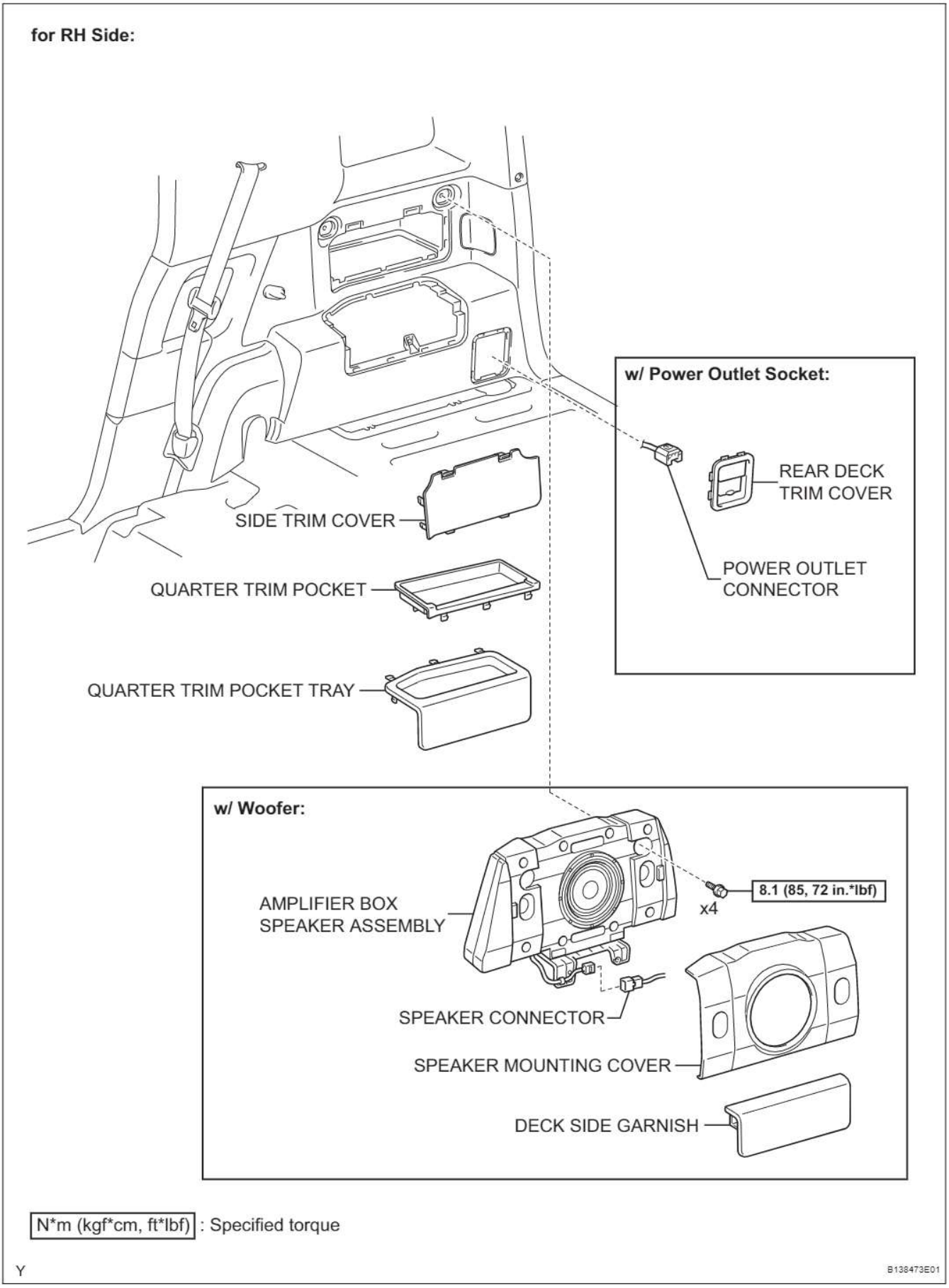

LUGGAGE HOLD BELT
STRIKER ASSEMBLY
LUGGAGE HOLD BELT
STRIKER ASSEMBLY
x2
x5
LUGGAGE HOLD BELT
STRIKER ASSEMBLY
REAR FLOOR MAT
SUPPORT PLATE
REAR FLOOR MAT
ASSEMBLY
REAR FLOOR BOARD
Y
B130655E01

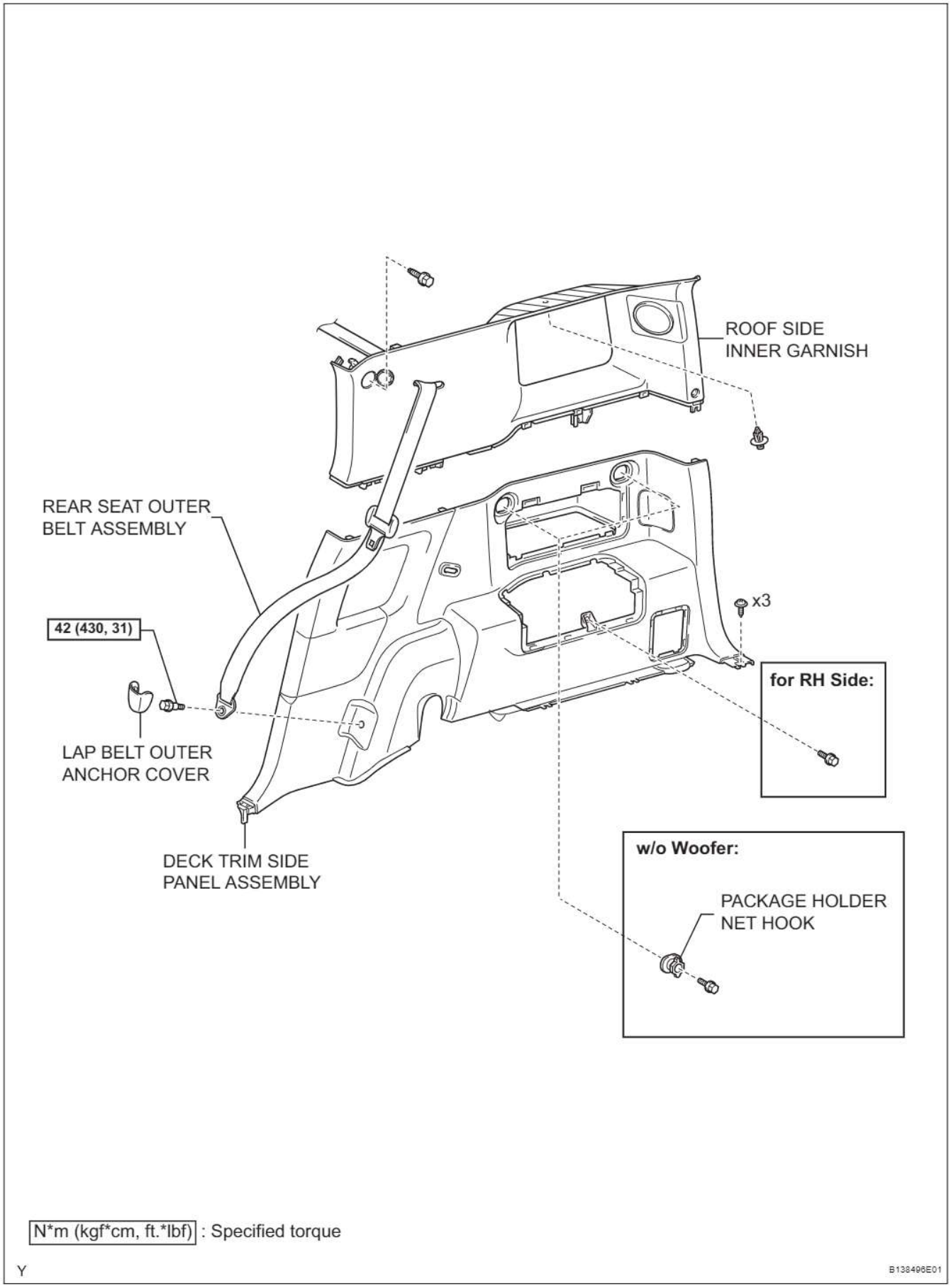


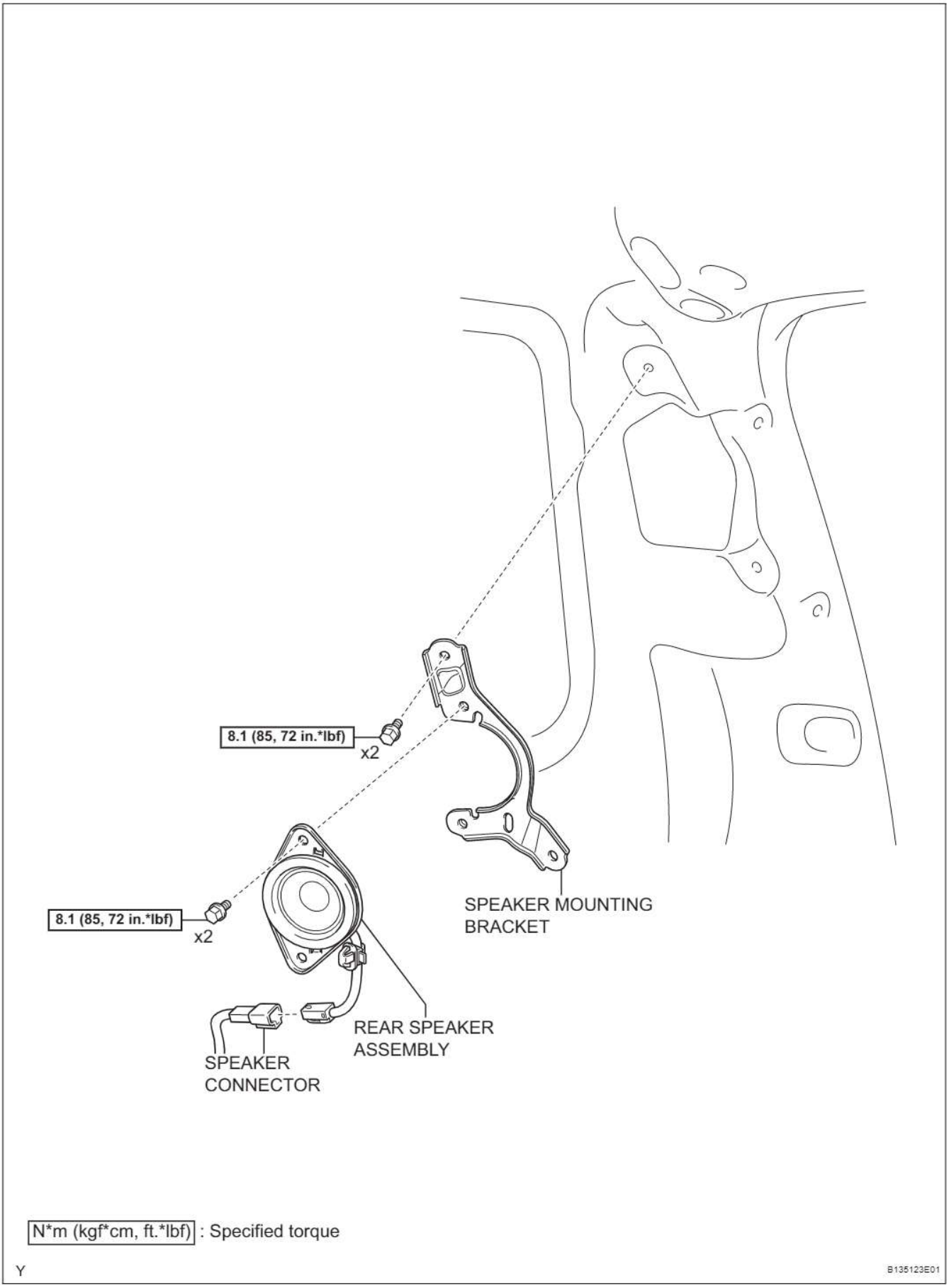
Y

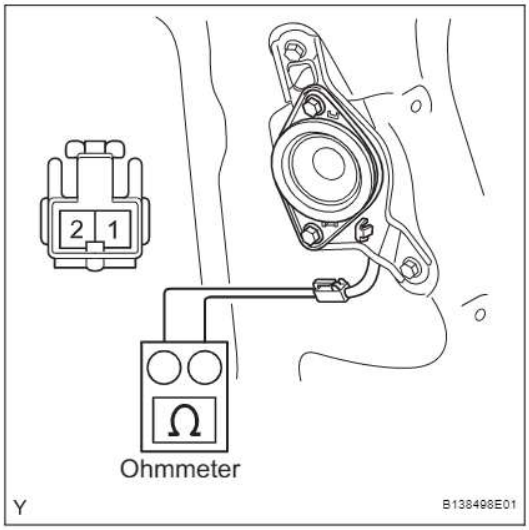
B138381E01

AV


for RH Side:
w/ Power Outlet Socket:
REAR DECK TRIM COVER
POWER OUTLET CONNECTOR
SIDE TRIM COVER
QUARTER TRIM POCKET
QUARTER TRIM POCKET TRAY
w/ Woofer:
AMPLIFIER BOX SPEAKER ASSEMBLY
8.1 (85, 72 in.*lbf)
x4
SPEAKER CONNECTOR
SPEAKER MOUNTING COVER
DECK SIDE GARNISH
N*m (kgf*cm, ft*lbf) : Specified torque
Y
B138473E01


ROOF SIDE
INNER GARNISH
REAR SEAT OUTER
BELT ASSEMBLY
x3
42 (430, 31)
for RH Side:
LAP BELT OUTER
ANCHOR COVER
DECK TRIM SIDE
PANEL ASSEMBLY
w/o Woofer:
PACKAGE HOLDER
NET HOOK
N*m (kgf*cm, ft.*lbf) : Specified torque
Y
B138496E01


8.1 (85, 72 in.*lbf)
x2
8.1 (85, 72 in.*lbf)
x2
SPEAKER MOUNTING BRACKET
REAR SPEAKER ASSEMBLY
SPEAKER CONNECTOR
N*m (kgf*cm, ft.*lbf) : Specified torque
Y
B135123E01



ON-VEHICLE INSPECTION

1. INSPECT REAR SPEAKER ASSEMBLY

HINT:

Remove interior parts so that the rear speaker can be seen.

(a) Check the speaker installation.

OK:

The speaker is securely installed.

If the result is not as specified, reinstall the rear speaker.

(b) Visually check the speaker.

OK:

The cone paper of the speaker is not torn.

If the result is not as specified, replace the rear speaker.

(c) Check the resistance.

(1) Disconnect the speaker connector.

(2) Using an ohmmeter, measure the resistance between the terminals.

Standard resistance

Tester Connection	Specified Condition
1 - 2	Approximately 8 Ω

If the result is not as specified, replace the rear speaker.

AV

REMOVAL

HINT:
The procedure described below is for the RH side. Use the same procedure for both the RH and LH sides, unless otherwise specified.

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
2. **REMOVE REAR SEATBACK BOARD CARPET ASSEMBLY**
   (a) for RH Side:
      (1) Remove the rear seatback board carpet assembly (See page SE-43).
   (b) for LH Side:
      (1) Remove the rear seatback board carpet assembly (See page SE-29).
3. **REMOVE REAR SEATBACK ASSEMBLY**
   (a) for RH Side:
      (1) Remove the rear seatback assembly (See page SE-43).
   (b) for LH Side:
      (1) Remove the rear seatback assembly (See page SE-29).
4. **REMOVE REAR FLOOR BOARD (See page IR-13)**
5. **REMOVE REAR FLOOR MAT SUPPORT PLATE (See page IR-14)**
6. **REMOVE LUGGAGE HOLD BELT STRIKER ASSEMBLY (See page IR-14)**
7. **REMOVE REAR FLOOR MAT ASSEMBLY (See page IR-15)**
8. **REMOVE FRONT DOOR SCUFF PLATE (See page IR-15)**
9. **REMOVE ACCESS DOOR SCUFF PLATE (See page IR-15)**
10. **REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP (See page SB-56)**
11. **REMOVE DECK SIDE GARNISH (w/ Woofer) (See page IR-18)**
12. **REMOVE SPEAKER MOUNTING COVER (w/ Woofer) (See page AV-90)**
13. **REMOVE AMPLIFIER BOX SPEAKER ASSEMBLY (w/ Woofer) (See page AV-90)**
14. **REMOVE PACKAGE HOLDER NET HOOK (w/o Woofer) (See page SB-57)**
15. **REMOVE QUARTER TRIM POCKET TRAY (w/o Woofer) (See page IR-19)**

16. **REMOVE SIDE TRIM COVER (w/o Woofer) (See page IR-19)**

17. **REMOVE QUARTER TRIM POCKET (w/o Woofer) (See page IR-19)**

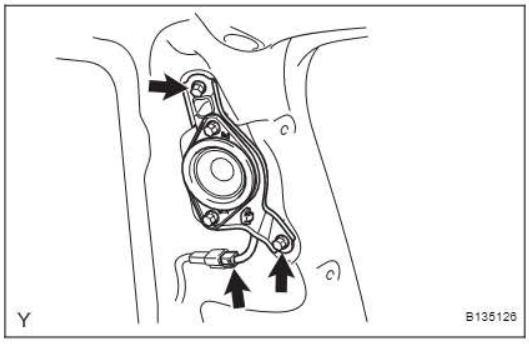
18. **REMOVE LAP BELT OUTER ANCHOR COVER (See page SB-57)**

19. **REMOVE REAR SEAT OUTER BELT ASSEMBLY (See page IR-20)**

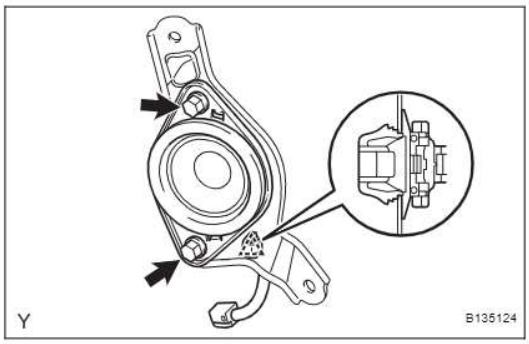
20. **REMOVE REAR DECK TRIM COVER (w/ Power Outlet Socket) (See page IR-20)**

21. **REMOVE DECK TRIM SIDE PANEL ASSEMBLY**
    (a) for RH Side:
        (1) Remove the deck trim side panel assembly (See page IR-21).
    (b) for LH Side:
        (1) Remove the deck trim side panel assembly (See page IR-21).

22. **REMOVE ROOF SIDE INNER GARNISH (See page IR-22)**



23. **REMOVE SPEAKER MOUNTING BRACKET**
    (a) Disconnect the speaker connector.
    (b) Remove the 2 bolts and the speaker mounting bracket.

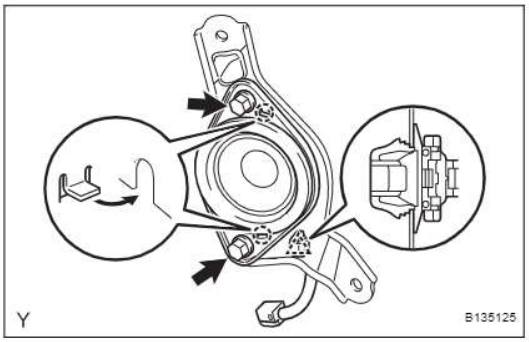


24. **REMOVE REAR SPEAKER ASSEMBLY**
    (a) Remove the clamp, the 2 bolts and the rear speaker.

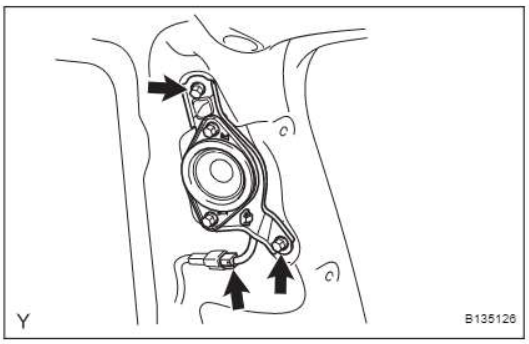
AV

INSTALLATION

HINT:
The procedure described below is for the RH side. Use the same procedure for both the RH and LH sides, unless otherwise specified.



1. **INSTALL REAR SPEAKER ASSEMBLY**
   (a) Inert the 2 hooks into the 2 cutouts of the speaker mounting bracket and install the rear speaker with the 2 bolts.
   Torque: 8.1 N*m (85 kgf*cm, 72 in.*lbf)
   (b) Install the clamp.



2. **INSTALL SPEAKER MOUNTING BRACKET**
   (a) Install the speaker mounting bracket with the 2 bolts.
   Torque: 8.1 N*m (85 kgf*cm, 72 in.*lbf)
   (b) Connect the speaker connector.
3. **INSTALL ROOF SIDE INNER GARNISH (See page IR-38)**
4. **INSTALL DECK TRIM SIDE PANEL ASSEMBLY**
   (a) for RH Side:
      (1) Install the deck trim side panel assembly (See page IR-39).
   (b) for LH Side:
      (1) Install the deck trim side panel assembly (See page IR-39).
5. **INSTALL REAR DECK TRIM COVER (w/ Power Outlet Socket) (See page IR-40)**
6. **INSTALL REAR SEAT OUTER BELT ASSEMBLY (See page IR-40)**
7. **INSTALL LAP BELT OUTER ANCHOR COVER (See page SB-61)**
8. **INSTALL AMPLIFIER BOX SPEAKER ASSEMBLY (w/ Woofer) (See page AV-90)**
9. **INSTALL SPEAKER MOUNTING COVER (w/ Woofer) (See page AV-91)**
10. **INSTALL DECK SIDE GARNISH (w/ Woofer) (See page IR-41)**
11. **INSTALL QUARTER TRIM POCKET (w/o Woofer) (See page IR-41)**
12. **INSTALL SIDE TRIM COVER (w/o Woofer) (See page IR-42)**
13. **INSTALL QUARTER TRIM POCKET TRAY (w/o Woofer) (See page IR-41)**

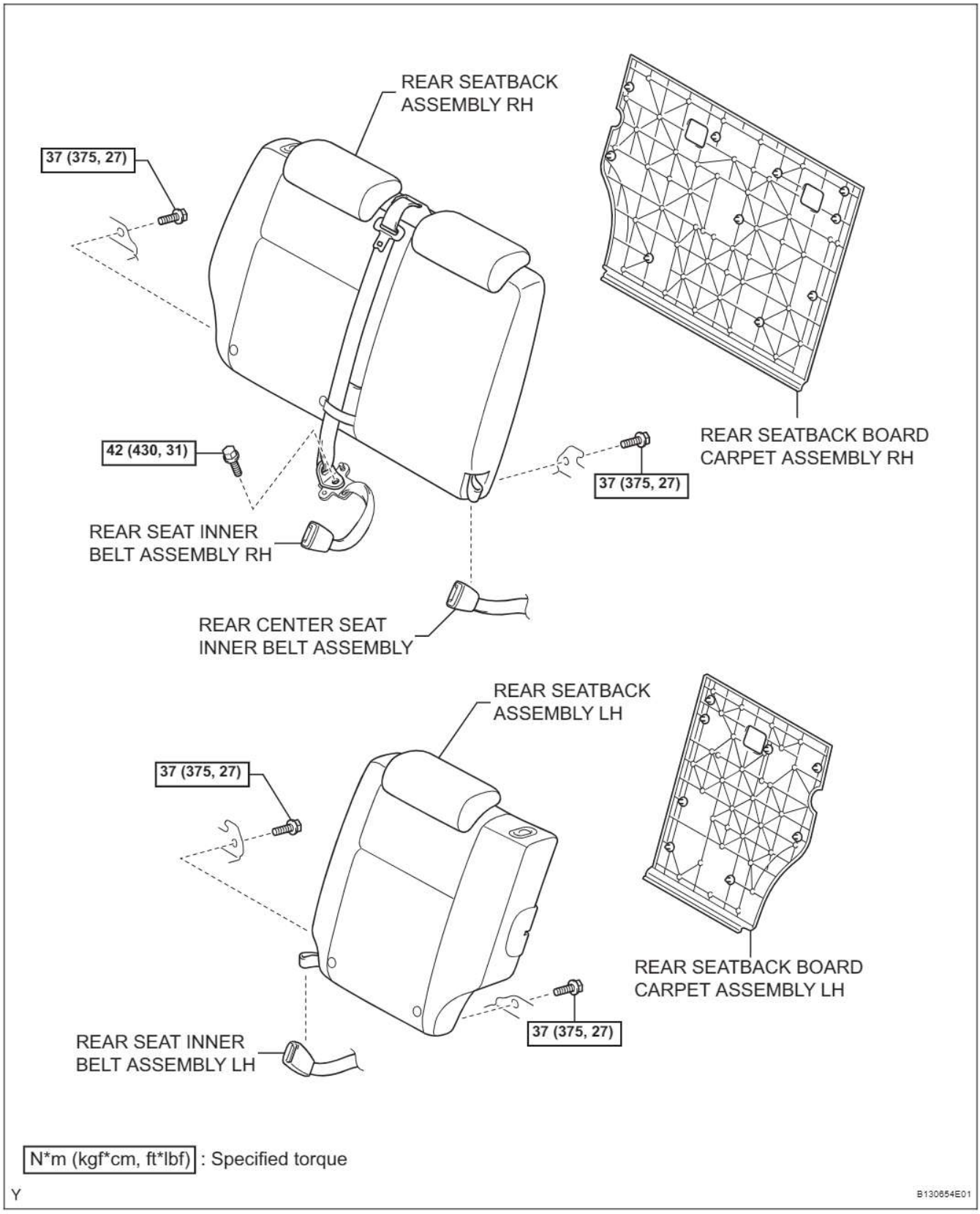
AV

14. **INSTALL PACKAGE HOLDER NET HOOK (w/o Woofer) (See page SB-62)**
15. **INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP (See page SB-62)**
16. **INSTALL ACCESS DOOR SCUFF PLATE (See page IR-45)**
17. **INSTALL FRONT DOOR SCUFF PLATE (See page IR-45)**
18. **INSTALL REAR FLOOR MAT ASSEMBLY (See page IR-46)**
19. **INSTALL LUGGAGE HOLD BELT STRIKER ASSEMBLY (See page IR-46)**
20. **INSTALL REAR FLOOR MAT SUPPORT PLATE (See page IR-46)**
21. **INSTALL REAR FLOOR BOARD (See page IR-47)**
22. **INSTALL REAR SEATBACK ASSEMBLY**
    (a) for RH Side:
        (1) Install the rear seatback assembly (See page SE-54).
    (b) for LH Side:
        (1) Install the rear seatback assembly (See page SE-38).
23. **INSTALL REAR SEATBACK BOARD CARPET ASSEMBLY**
    (a) for RH Side:
        (1) Install the rear seatback board carpet assembly (See page SE-54).
    (b) for LH Side:
        (1) Install the rear seatback board carpet assembly (See page SE-38).
24. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
    Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)

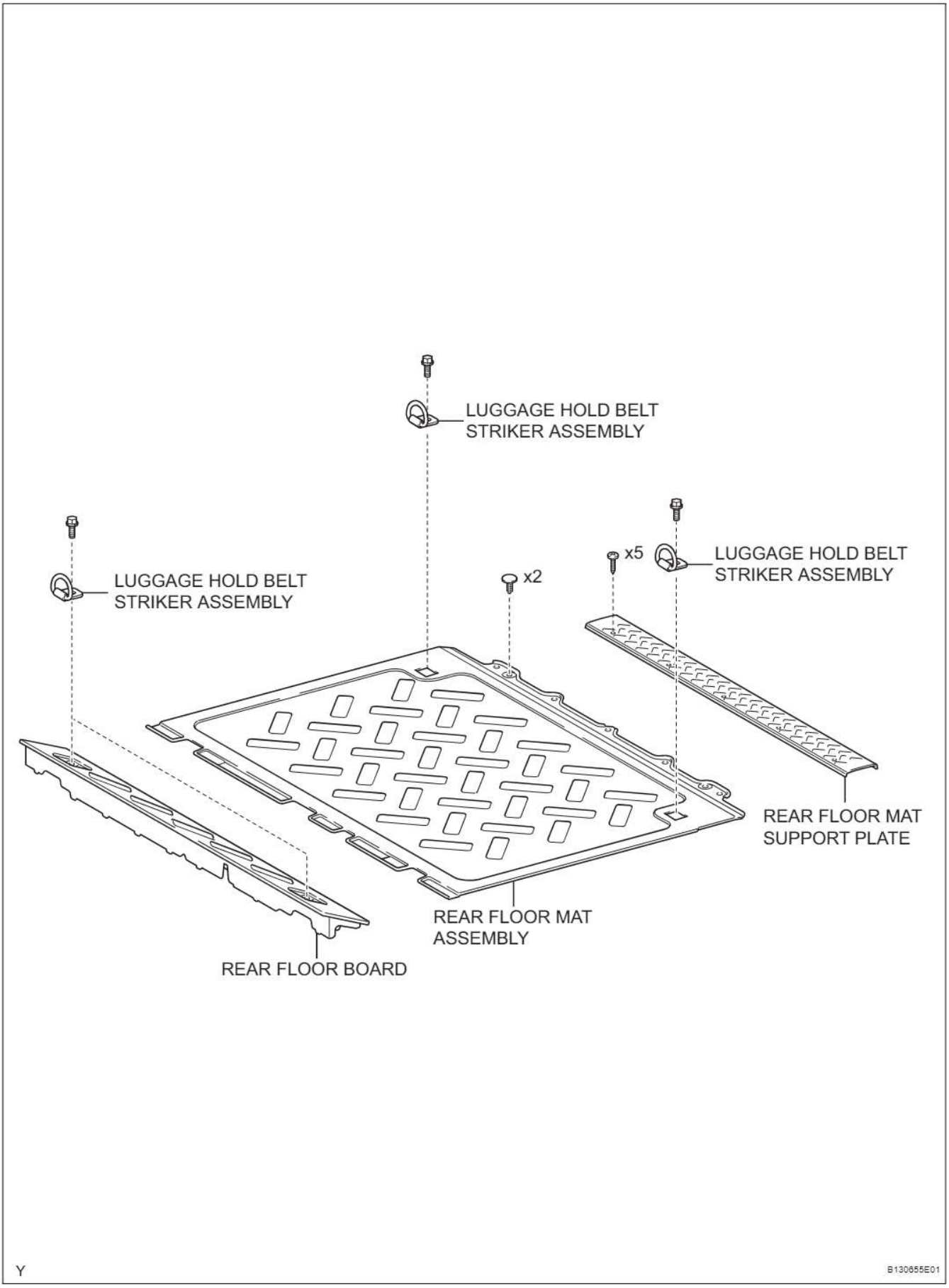
AV

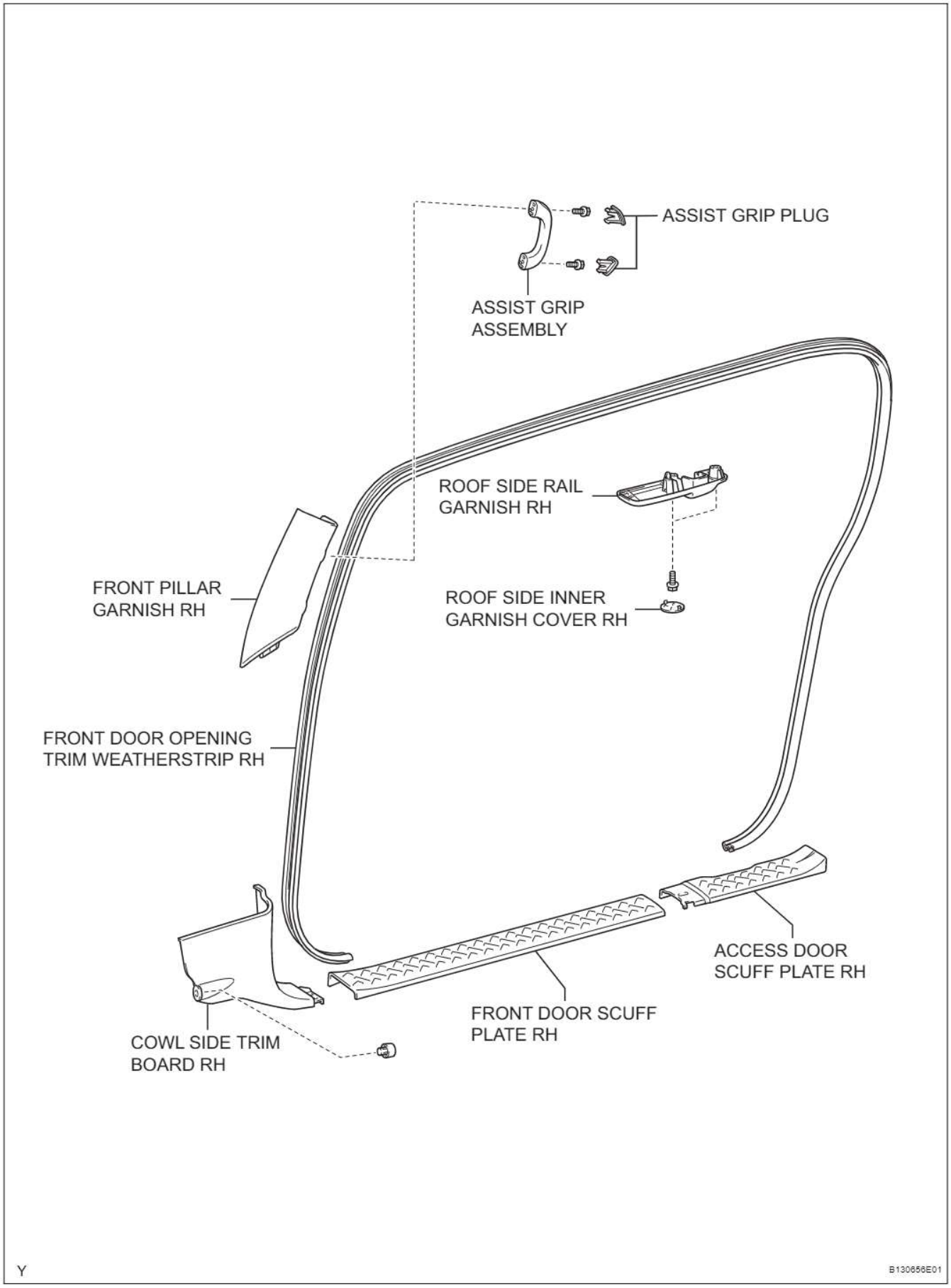
ROOF SPEAKER

COMPONENTS

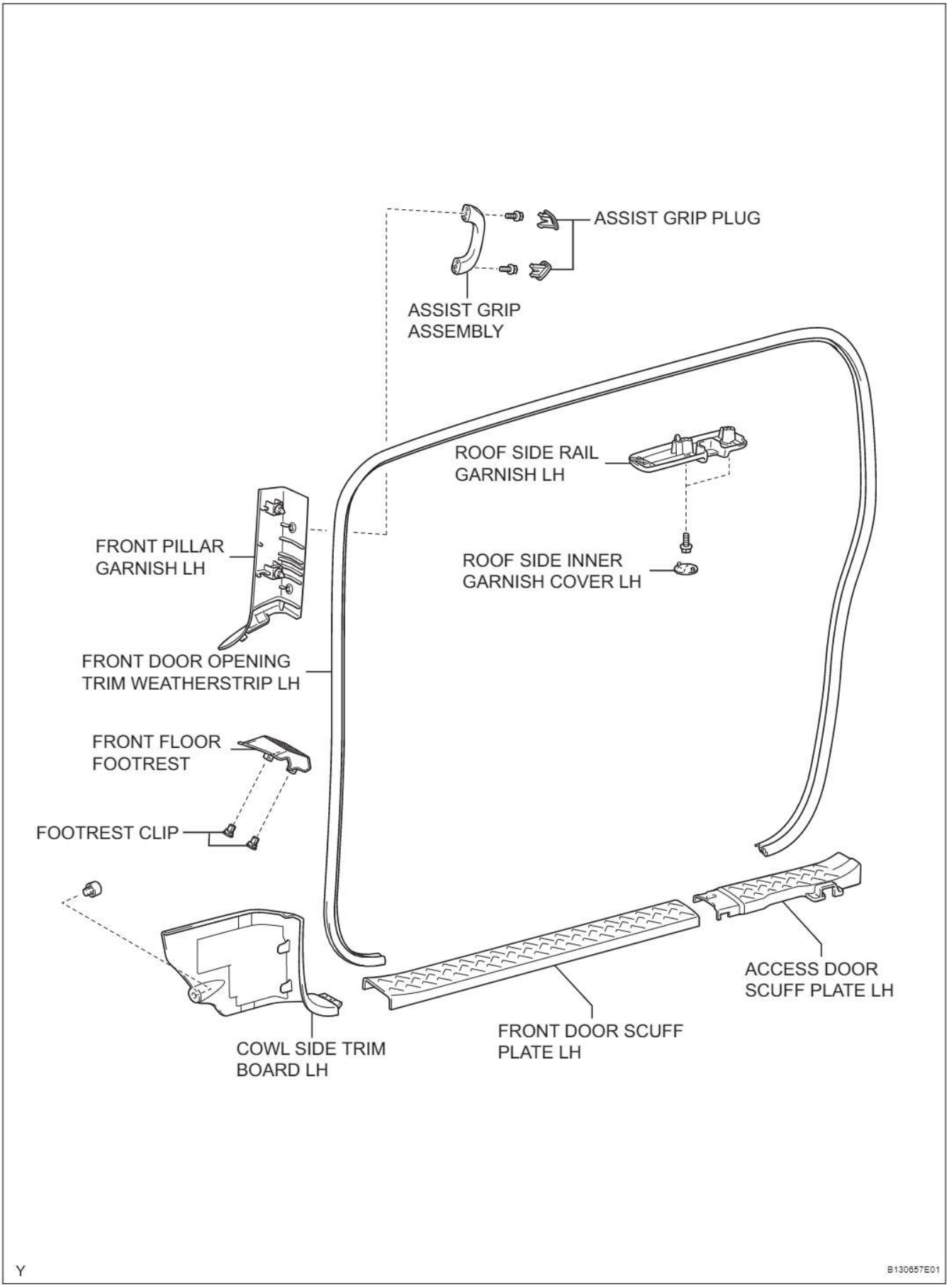


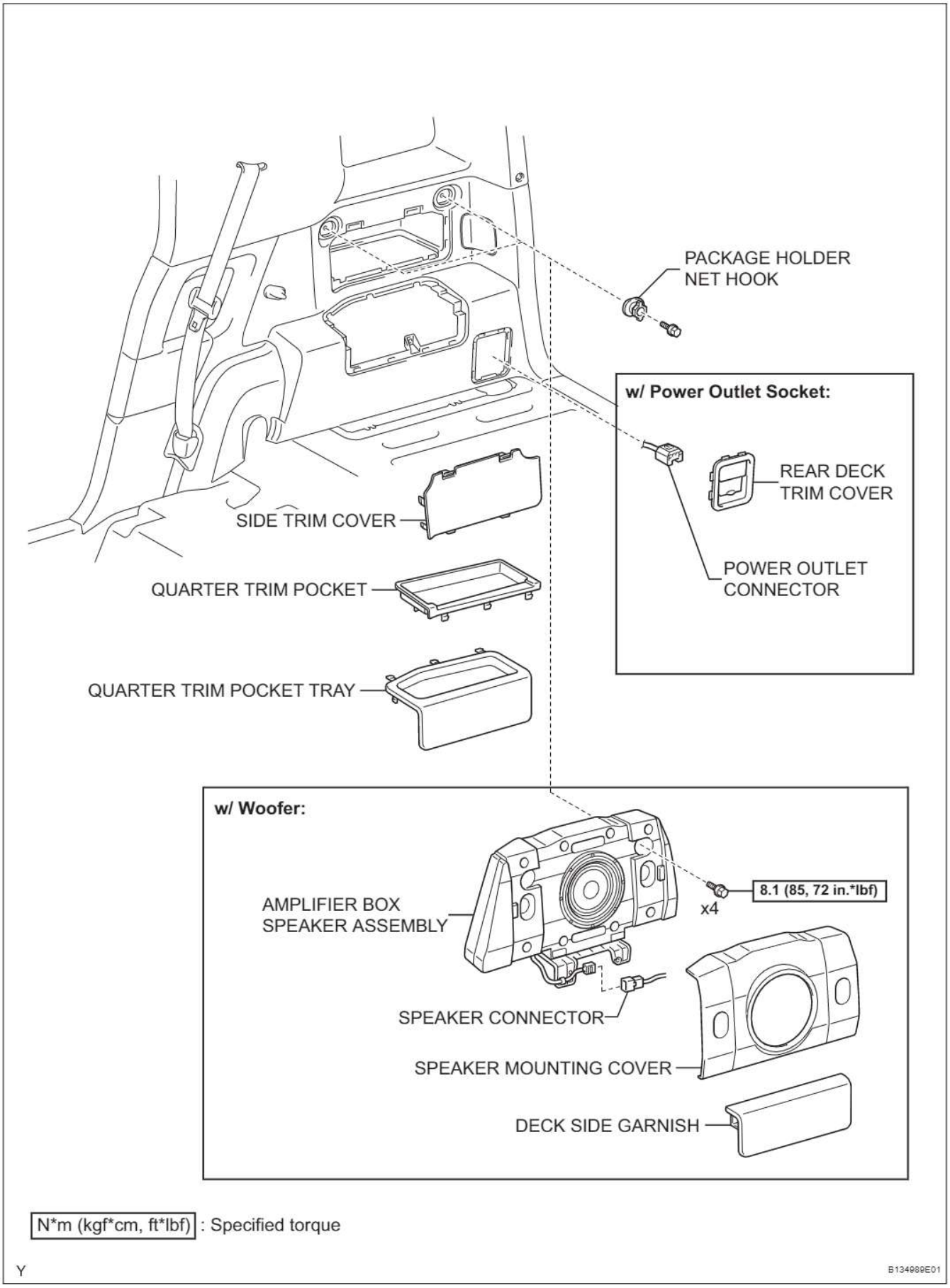
AV


LUGGAGE HOLD BELT
STRIKER ASSEMBLY
LUGGAGE HOLD BELT
STRIKER ASSEMBLY
x2
x5
LUGGAGE HOLD BELT
STRIKER ASSEMBLY
REAR FLOOR MAT
SUPPORT PLATE
REAR FLOOR MAT
ASSEMBLY
REAR FLOOR BOARD
Y
B130655E01

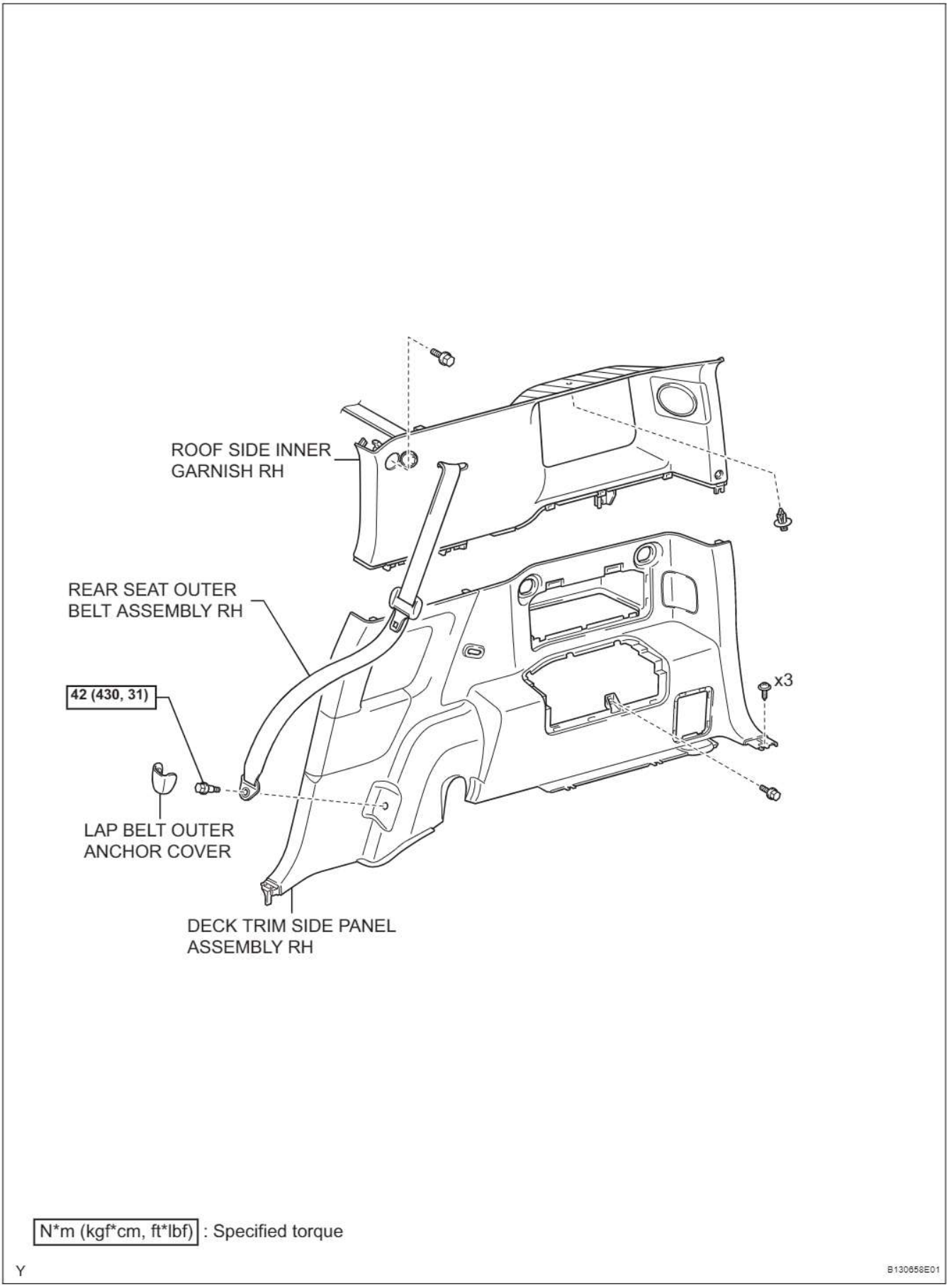

ASSIST GRIP PLUG
ASSIST GRIP ASSEMBLY
ROOF SIDE RAIL GARNISH RH
ROOF SIDE INNER GARNISH COVER RH
FRONT PILLAR GARNISH RH
FRONT DOOR OPENING TRIM WEATHERSTRIP RH
ACCESS DOOR SCUFF PLATE RH
FRONT DOOR SCUFF PLATE RH
COWL SIDE TRIM BOARD RH
Y
B130656E01

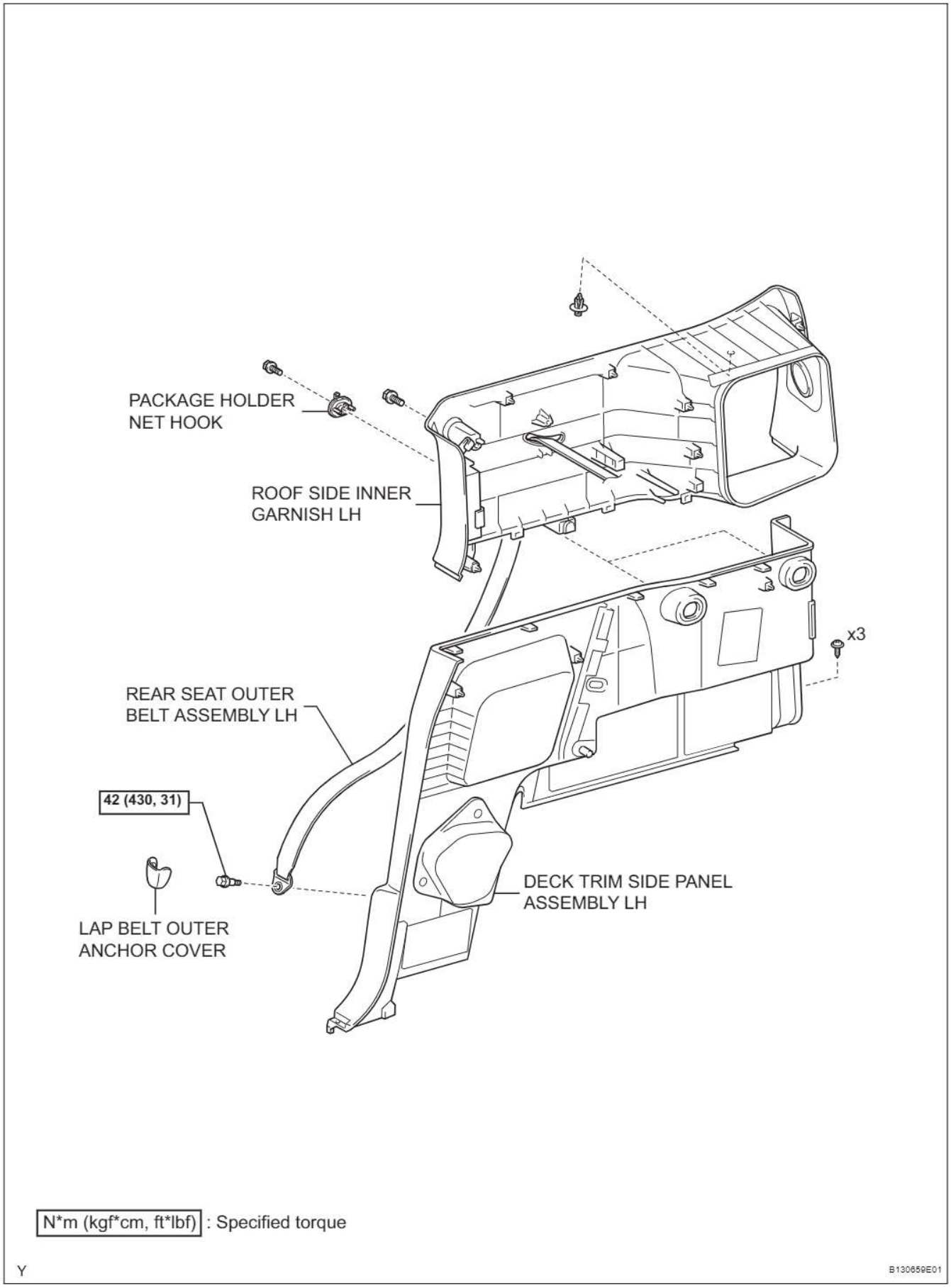
AV


ASSIST GRIP PLUG
ASSIST GRIP ASSEMBLY
ROOF SIDE RAIL GARNISH LH
ROOF SIDE INNER GARNISH COVER LH
FRONT PILLAR GARNISH LH
FRONT DOOR OPENING TRIM WEATHERSTRIP LH
FRONT FLOOR FOOTREST
FOOTREST CLIP
ACCESS DOOR SCUFF PLATE LH
FRONT DOOR SCUFF PLATE LH
COWL SIDE TRIM BOARD LH
Y
B130657E01

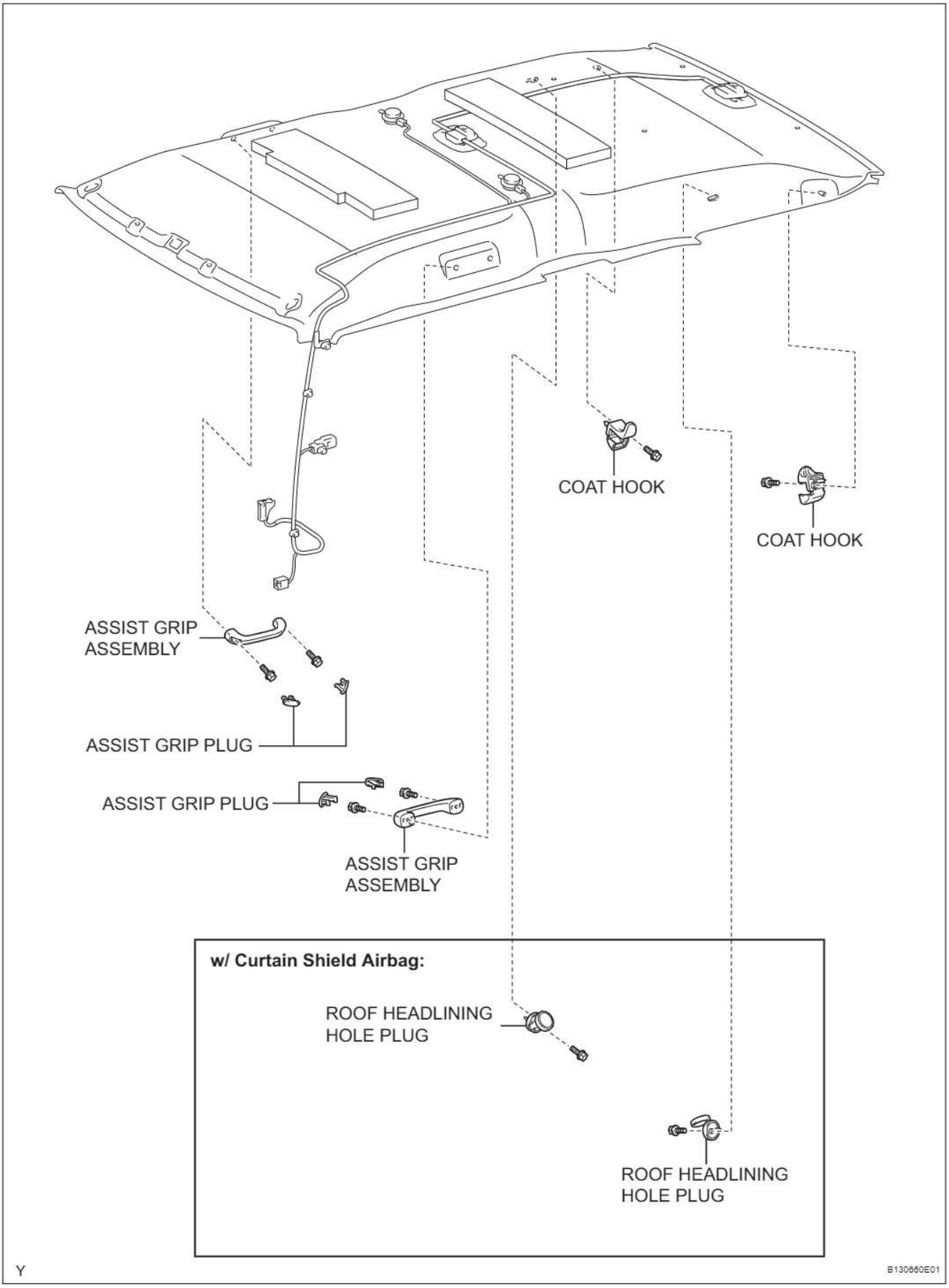

PACKAGE HOLDER
NET HOOK
w/ Power Outlet Socket:
REAR DECK
TRIM COVER
POWER OUTLET
CONNECTOR
SIDE TRIM COVER
QUARTER TRIM POCKET
QUARTER TRIM POCKET TRAY
w/ Woofer:
AMPLIFIER BOX
SPEAKER ASSEMBLY
8.1 (85, 72 in.*lbf)
x4
SPEAKER CONNECTOR
SPEAKER MOUNTING COVER
DECK SIDE GARNISH
N*m (kgf*cm, ft*lbf) : Specified torque
Y
B134989E01

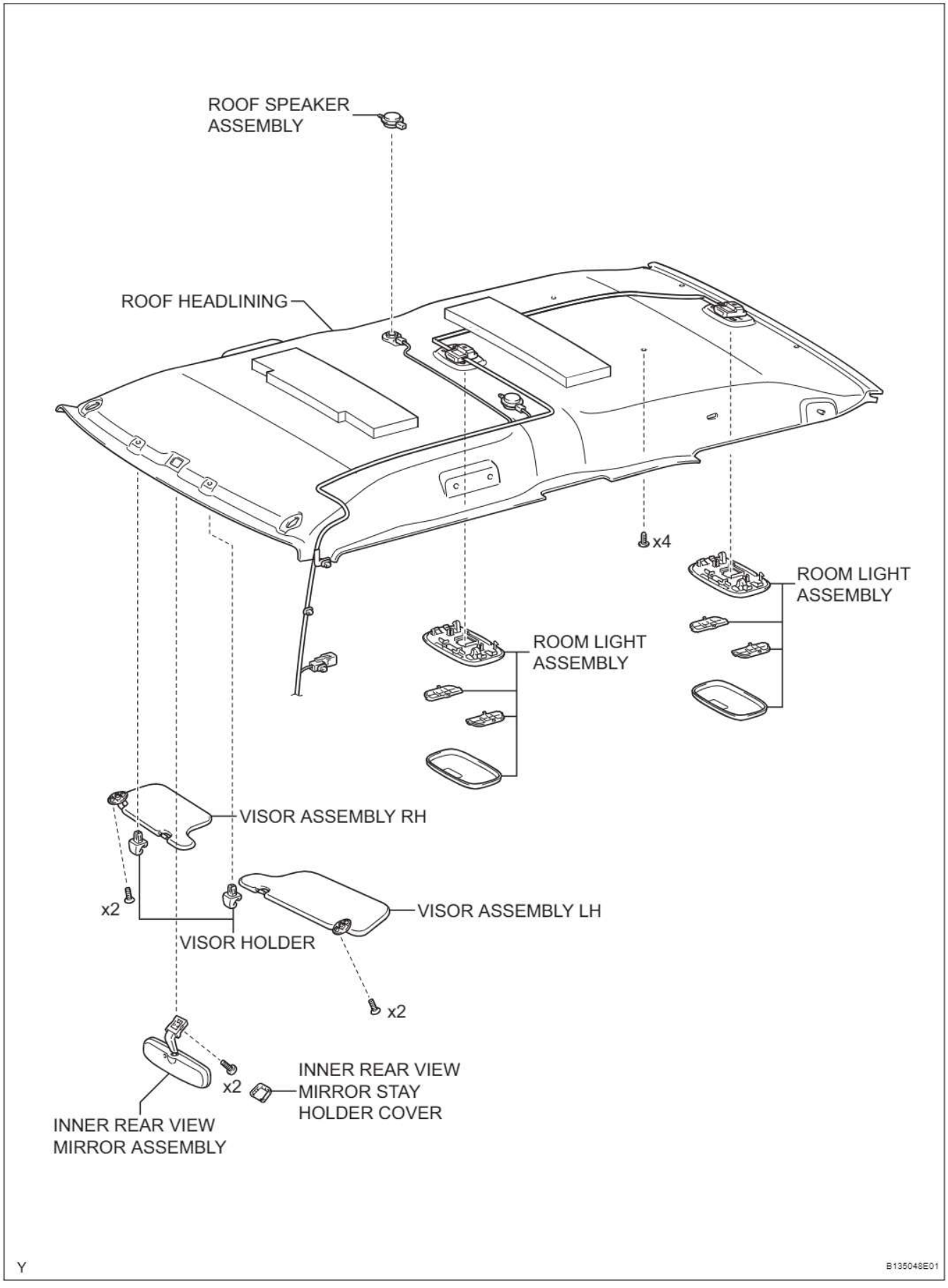
AV

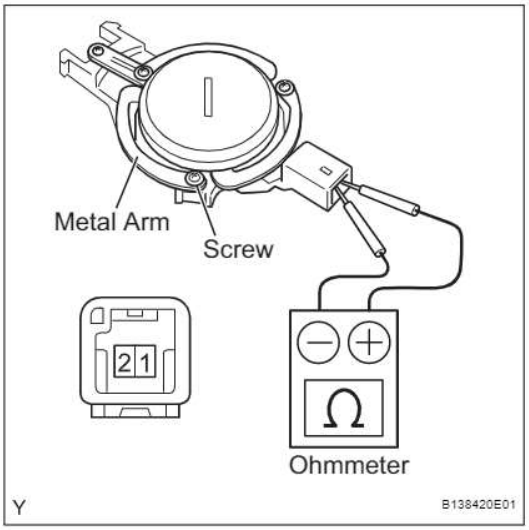

ROOF SIDE INNER GARNISH RH
REAR SEAT OUTER BELT ASSEMBLY RH
42 (430, 31)
x3
LAP BELT OUTER ANCHOR COVER
DECK TRIM SIDE PANEL ASSEMBLY RH
N*m (kgf*cm, ft*lbf) : Specified torque
Y
B130658E01


PACKAGE HOLDER NET HOOK
ROOF SIDE INNER GARNISH LH
x3
REAR SEAT OUTER BELT ASSEMBLY LH
42 (430, 31)
DECK TRIM SIDE PANEL ASSEMBLY LH
LAP BELT OUTER ANCHOR COVER
N*m (kgf*cm, ft*lbf) : Specified torque
Y
B130659E01

AV


COAT HOOK
COAT HOOK
ASSIST GRIP ASSEMBLY
ASSIST GRIP PLUG
ASSIST GRIP PLUG
ASSIST GRIP ASSEMBLY
w/ Curtain Shield Airbag:
ROOF HEADLINING HOLE PLUG
ROOF HEADLINING HOLE PLUG
Y
B130660E01


ROOF SPEAKER ASSEMBLY
ROOF HEADLINING
x4
ROOM LIGHT ASSEMBLY
ROOM LIGHT ASSEMBLY
VISOR ASSEMBLY RH
x2
VISOR ASSEMBLY LH
VISOR HOLDER
x2
x2
INNER REAR VIEW MIRROR STAY HOLDER COVER
INNER REAR VIEW MIRROR ASSEMBLY
Y
B135048E01



ON-VEHICLE INSPECTION

1. INSPECT ROOF SPEAKER ASSEMBLY

HINT:

Remove interior parts so that the roof speaker can be seen.

(a) Check the speaker installation.

OK:

The speaker is securely installed.

If the result is not as specified, reinstall the roof speaker.

(b) Visually check the speaker.

OK:

The metal arm of speaker is not bended.

The screw of speaker is not loosened.

If the result is not as specified, replace the roof speaker.

(c) Check the resistance.

(1) Disconnect the speaker connector.

(2) Using an ohmmeter, measure the resistance between the terminals.

Standard resistance

Tester connection	Specified Condition
1 - 2	Approximately 4 Ω

If the result is not as specified, replace the roof speaker.

AV

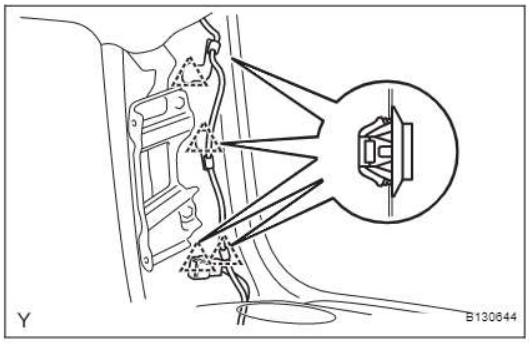
REMOVAL

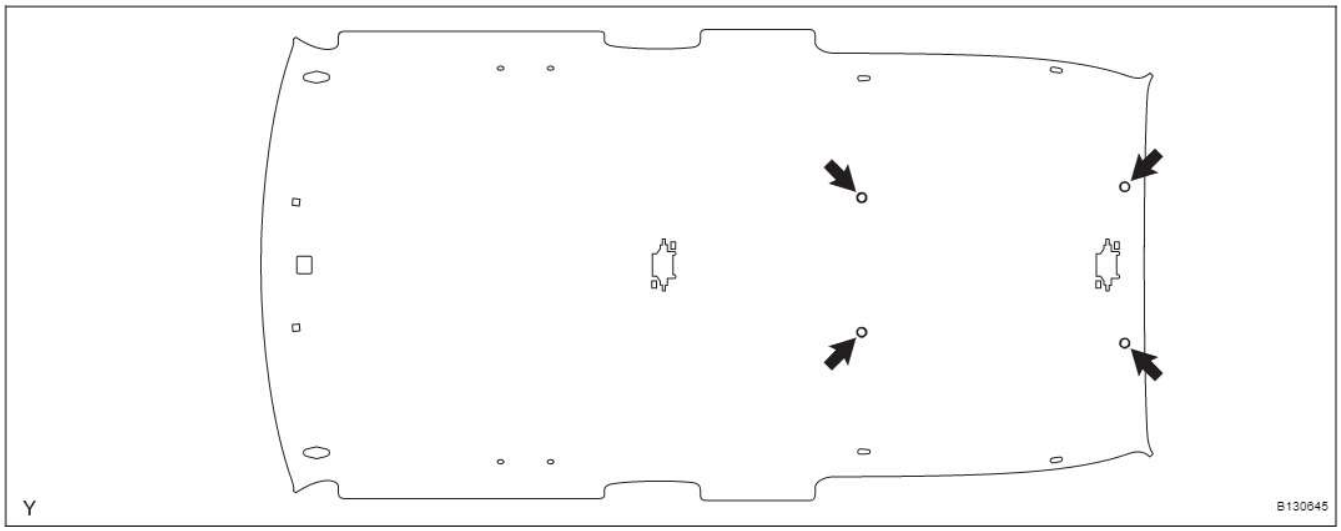
HINT:
The procedure described below is for the RH side. Use the same procedure for both the RH and LH sides, unless otherwise specified.

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL
2. REMOVE REAR SEATBACK BOARD CARPET ASSEMBLY RH (See page SE-43)
3. REMOVE REAR SEATBACK ASSEMBLY RH (See page SE-43)
4. REMOVE REAR SEATBACK BOARD CARPET ASSEMBLY LH (See page SE-29)
5. REMOVE REAR SEATBACK ASSEMBLY LH (See page SE-29)
6. REMOVE REAR FLOOR BOARD (See page IR-13)
7. REMOVE REAR FLOOR MAT SUPPORT PLATE (See page IR-14)
8. REMOVE LUGGAGE HOLD BELT STRIKER ASSEMBLY (See page IR-14)
9. REMOVE REAR FLOOR MAT ASSEMBLY (See page IR-15)
10. REMOVE FRONT DOOR SCUFF PLATE RH (See page IR-15)
11. REMOVE FRONT DOOR SCUFF PLATE LH (See page IR-15)
12. REMOVE ACCESS DOOR SCUFF PLATE RH (See page IR-15)
13. REMOVE ACCESS DOOR SCUFF PLATE LH (See page IR-15)
14. REMOVE FRONT FLOOR FOOTREST (See page IR-2)
15. REMOVE FOOTREST CLIP (See page IR-2)
16. REMOVE COWL SIDE TRIM BOARD RH (See page IR-15)
17. REMOVE COWL SIDE TRIM BOARD LH (See page IR-15)
18. REMOVE ROOF SIDE INNER GARNISH COVER RH (See page IR-16)
19. REMOVE ROOF SIDE INNER GARNISH COVER LH (See page IR-16)
20. REMOVE ROOF SIDE RAIL GARNISH RH (See page IR-16)
21. REMOVE ROOF SIDE RAIL GARNISH LH (See page IR-16)

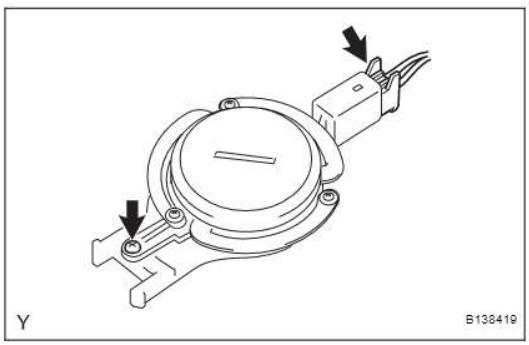
22. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP RH (See page IR-16)
23. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP LH (See page IR-16)
24. REMOVE ASSIST GRIP PLUG (See page IR-17)
25. REMOVE ASSIST GRIP ASSEMBLY (See page IR-17)
26. REMOVE FRONT PILLAR GARNISH RH (See page IR-18)
27. REMOVE FRONT PILLAR GARNISH LH (See page IR-18)
28. REMOVE DECK SIDE GARNISH (w/ Woofer) (See page IR-18)
29. REMOVE SPEAKER MOUNTING COVER (w/ Woofer) (See page AV-90)
30. REMOVE AMPLIFIER BOX SPEAKER ASSEMBLY (w/ Woofer) (See page AV-90)
31. REMOVE PACKAGE HOLDER NET HOOK (See page IR-18)
32. REMOVE QUARTER TRIM POCKET TRAY (w/o Woofer) (See page IR-19)
33. REMOVE SIDE TRIM COVER (w/o Woofer) (See page IR-19)
34. REMOVE QUARTER TRIM POCKET (w/o Woofer) (See page IR-19)
35. REMOVE LAP BELT OUTER ANCHOR COVER (See page IR-20)
36. REMOVE REAR SEAT OUTER BELT ASSEMBLY RH (See page IR-20)
37. REMOVE REAR SEAT OUTER BELT ASSEMBLY LH (See page IR-20)
38. REMOVE REAR DECK TRIM COVER (w/ Power Outlet Socket) (See page IR-20)
39. REMOVE DECK TRIM SIDE PANEL ASSEMBLY RH (See page IR-21)
40. REMOVE DECK TRIM SIDE PANEL ASSEMBLY LH (See page IR-21)
41. REMOVE ROOF SIDE INNER GARNISH RH (See page IR-22)
42. REMOVE ROOF SIDE INNER GARNISH LH (See page IR-22)
43. REMOVE ROOF HEADLINING HOLE PLUG (w/ Curtain Shield Airbag) (See page IR-23)
44. REMOVE COAT HOOK (See page IR-24)
45. REMOVE VISOR ASSEMBLY RH (See page IR-24)

46. **REMOVE VISOR ASSEMBLY LH (See page IR-24)**
47. **REMOVE VISOR HOLDER (See page IR-25)**
48. **REMOVE INNER REAR VIEW MIRROR STAY HOLDER COVER (See page MI-6)**
49. **REMOVE INNER REAR VIEW MIRROR ASSEMBLY (See page MI-6)**
50. **REMOVE ROOM LIGHT ASSEMBLY (See page IR-25)**
51. **REMOVE ROOF HEADLINING**
    (a) Using a clip remover, remove the 3 clamps and the connector.
    (b) Using a clip remover, remove the 4 clips.

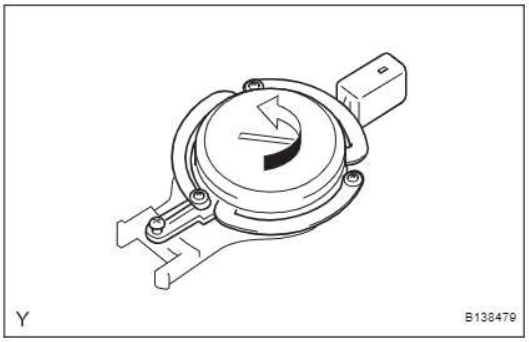




52. **REMOVE ROOF SPEAKER ASSEMBLY**
    (a) Disconnect the speaker connector.
    (b) Loosen the screw.



AV

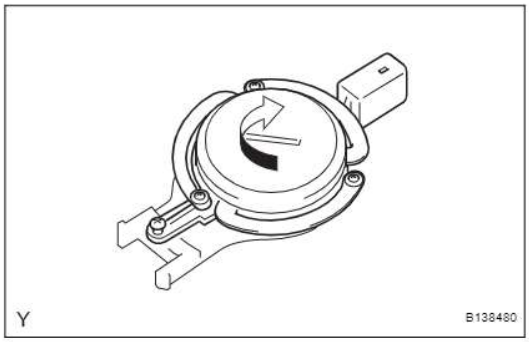


(c) Remove the roof speaker by turning it in the direction of the arrow shown in the illustration.

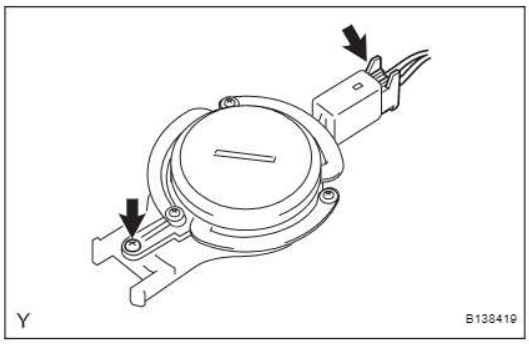
AV

INSTALLATION

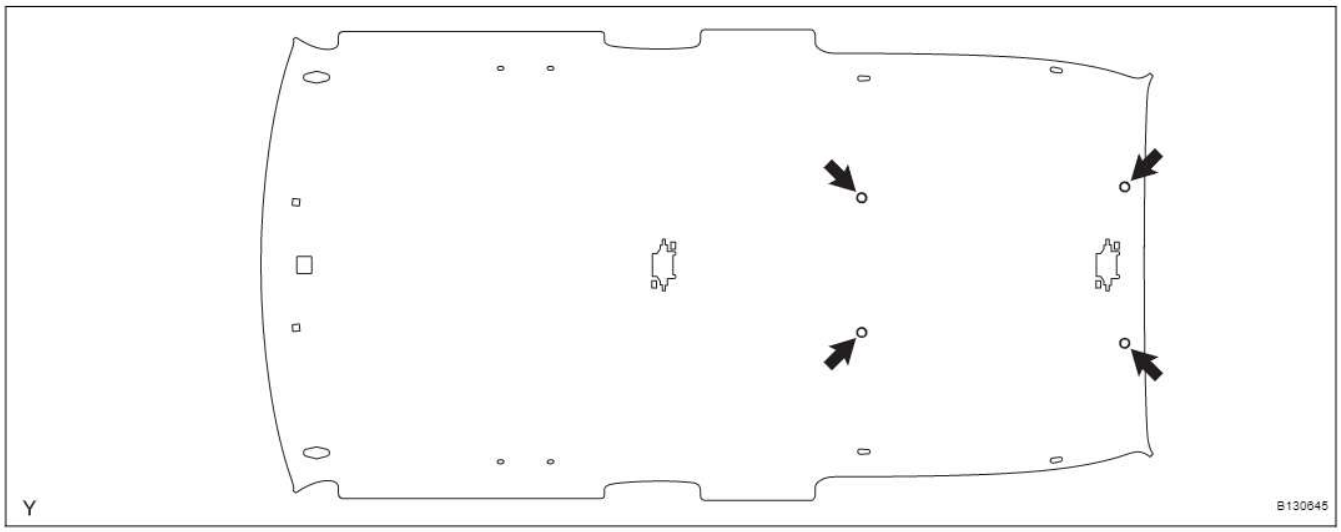
HINT:
The procedure described below is for the RH side. Use the same procedure for both the RH and LH sides, unless otherwise specified.

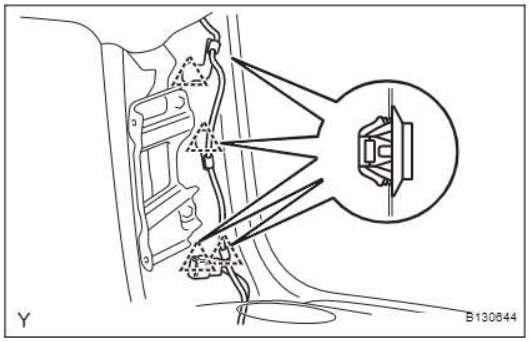


1. **INSTALL ROOF SPEAKER ASSEMBLY**
   (a) Install the roof speaker by turning it in the direction of the arrow shown in the illustration.



   (b) Tighten the screw.
   (c) Connect the speaker connector.
2. **INSTALL ROOF HEADLINING**
   (a) Install the roof headlining with the 4 clips.





   (b) Install the 3 clamps and the connector.
3. **INSTALL ROOM LIGHT ASSEMBLY (See page IR-34)**
4. **INSTALL INNER REAR VIEW MIRROR ASSEMBLY (See page MI-6)**
5. **INSTALL INNER REAR VIEW MIRROR STAY HOLDER COVER (See page MI-6)**
6. **INSTALL VISOR HOLDER (See page IR-36)**
7. **INSTALL VISOR ASSEMBLY RH (See page IR-36)**

AV

8. INSTALL VISOR ASSEMBLY LH (See page IR-36)
9. INSTALL COAT HOOK (See page IR-36)
10. INSTALL ROOF HEADLINING HOLE PLUG (w/ Curtain Shield Airbag) (See page IR-37)
11. INSTALL ROOF SIDE INNER GARNISH RH (See page IR-38)
12. INSTALL ROOF SIDE INNER GARNISH LH (See page IR-38)
13. INSTALL DECK TRIM SIDE PANEL ASSEMBLY RH (See page IR-39)
14. INSTALL DECK TRIM SIDE PANEL ASSEMBLY LH (See page IR-39)
15. INSTALL REAR DECK TRIM COVER (w/ Power Outlet Socket) (See page IR-40)
16. INSTALL REAR SEAT OUTER BELT ASSEMBLY RH (See page IR-40)
17. INSTALL REAR SEAT OUTER BELT ASSEMBLY LH (See page IR-40)
18. INSTALL LAP BELT OUTER ANCHOR COVER (See page IR-41)
19. INSTALL AMPLIFIER BOX SPEAKER ASSEMBLY (w/ Woofer) (See page AV-90)
20. INSTALL SPEAKER MOUNTING COVER (w/ Woofer) (See page AV-91)
21. INSTALL DECK SIDE GARNISH (w/ Woofer) (See page IR-41)
22. INSTALL QUARTER TRIM POCKET (w/o Woofer) (See page IR-41)
23. INSTALL SIDE TRIM COVER (w/o Woofer) (See page IR-42)
24. INSTALL QUARTER TRIM POCKET TRAY (w/o Woofer) (See page IR-42)
25. INSTALL PACKAGE HOLDER NET HOOK (See page IR-42)
26. INSTALL FRONT PILLAR GARNISH RH (See page IR-43)
27. INSTALL FRONT PILLAR GARNISH LH (See page IR-43)
28. INSTALL ASSIST GRIP ASSEMBLY (See page IR-43)
29. INSTALL ASSIST GRIP PLUG (See page IR-44)
30. INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP RH (See page IR-44)
31. INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP LH (See page IR-44)

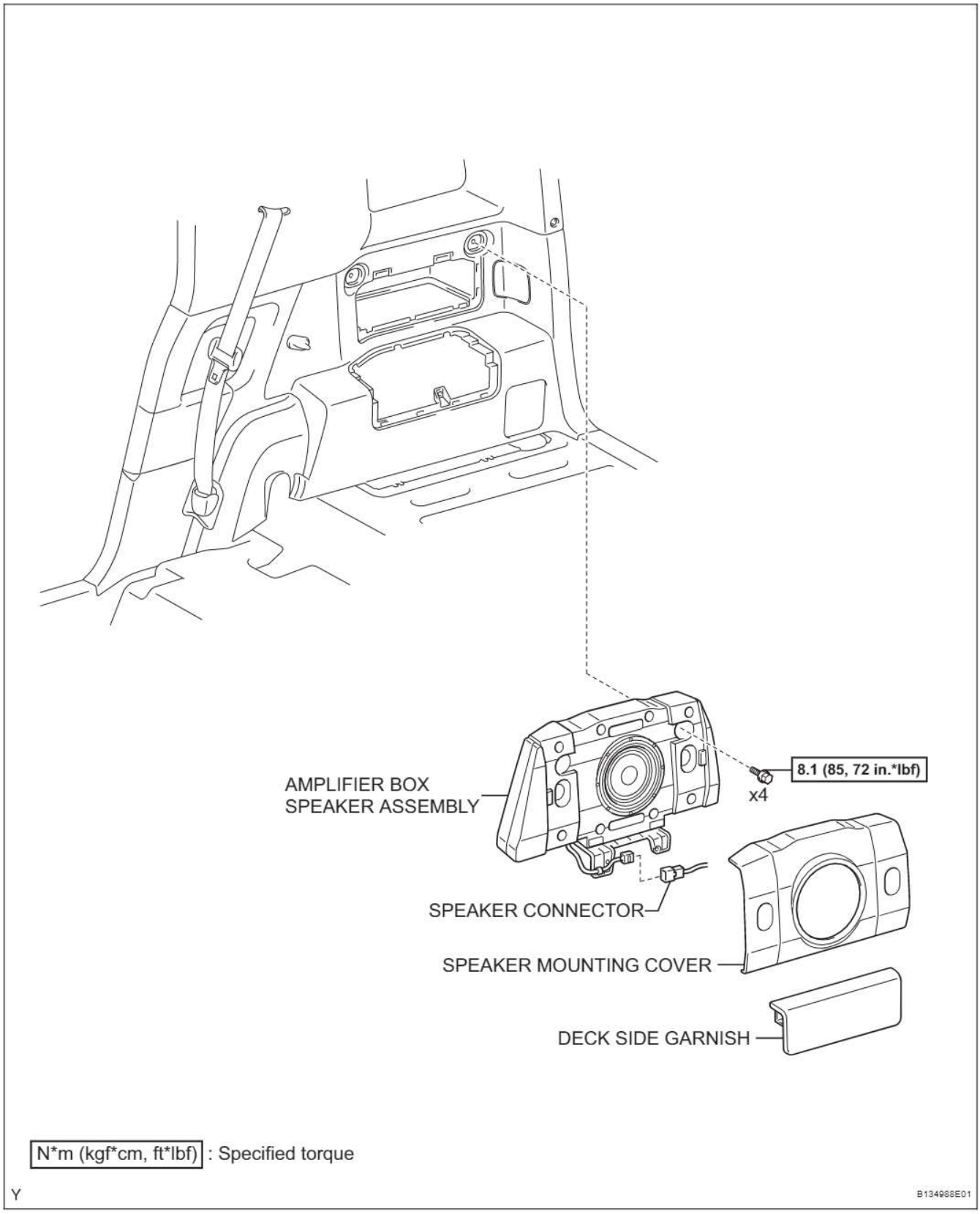
AV

32. INSTALL ROOF SIDE RAIL GARNISH RH (See page IR-44)
33. INSTALL ROOF SIDE RAIL GARNISH LH (See page IR-44)
34. INSTALL ROOF SIDE INNER GARNISH COVER RH (See page IR-45)
35. REMOVE ROOF SIDE INNER GARNISH COVER LH (See page IR-45)
36. INSTALL COWL SIDE TRIM BOARD RH (See page IR-45)
37. INSTALL COWL SIDE TRIM BOARD LH (See page IR-45)
38. INSTALL FOOTREST CLIP (See page IR-2)
39. INSTALL FRONT FLOOR FOOTREST (See page IR-2)
40. INSTALL ACCESS DOOR SCUFF PLATE RH (See page IR-45)
41. INSTALL ACCESS DOOR SCUFF PLATE LH (See page IR-45)
42. INSTALL FRONT DOOR SCUFF PLATE RH (See page IR-45)
43. INSTALL FRONT DOOR SCUFF PLATE LH (See page IR-45)
44. INSTALL REAR FLOOR MAT ASSEMBLY (See page IR-46)
45. INSTALL LUGGAGE HOLD BELT STRIKER ASSEMBLY (See page IR-46)
46. INSTALL REAR FLOOR MAT SUPPORT PLATE (See page IR-46)
47. INSTALL REAR FLOOR BOARD (See page IR-47)
48. INSTALL REAR SEATBACK ASSEMBLY RH (See page SE-54)
49. INSTALL REAR SEATBACK BOARD CARPET ASSEMBLY RH (See page SE-54)
50. INSTALL REAR SEATBACK ASSEMBLY LH (See page SE-38)
51. INSTALL REAR SEATBACK BOARD CARPET ASSEMBLY LH (See page SE-38)
52. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL
    Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)

AV

AMPLIFIER BOX SPEAKER ASSEMBLY

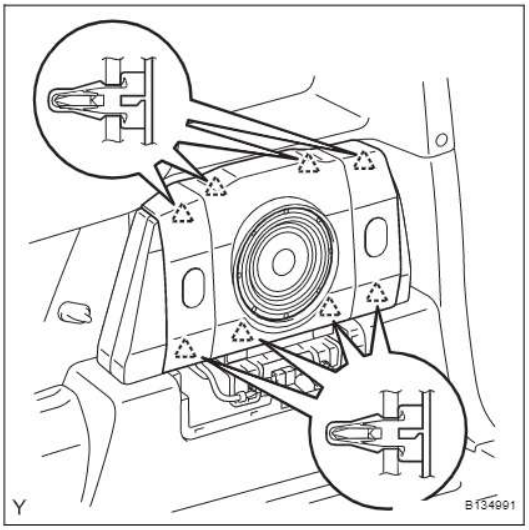
COMPONENTS



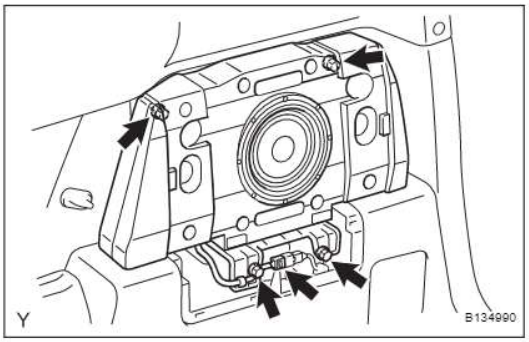
AV

REMOVAL

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
2. **REMOVE DECK SIDE GARNISH (See page IR-18)**
3. **REMOVE SPEAKER MOUNTING COVER**
   (a) Disengage the 8 clips and remove the speaker mounting cover.



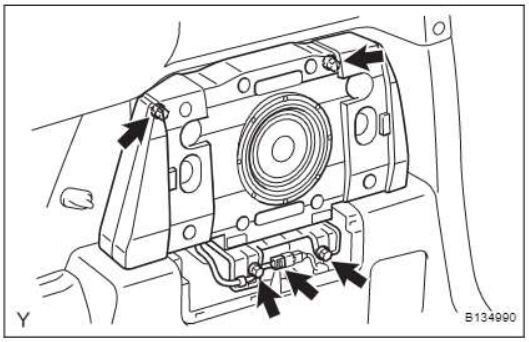
4. **REMOVE AMPLIFIER BOX SPEAKER ASSEMBLY**
   (a) Disconnect the speaker connector.
   (b) Remove the 4 screws and the amplifier box speaker.

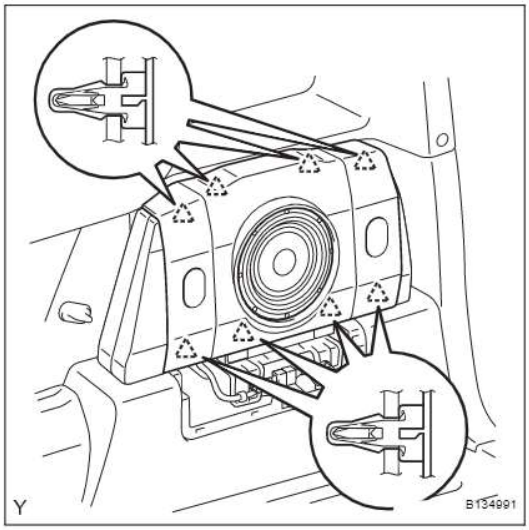


AV

INSTALLATION

1. **INSTALL AMPLIFIER BOX SPEAKER ASSEMBLY**
   (a) Install the amplifier box speaker with the 4 screws.
   Torque: 8.1 N*m (85 kgf*cm, 72 in.*lbf)
   (b) Connect the speaker connector.



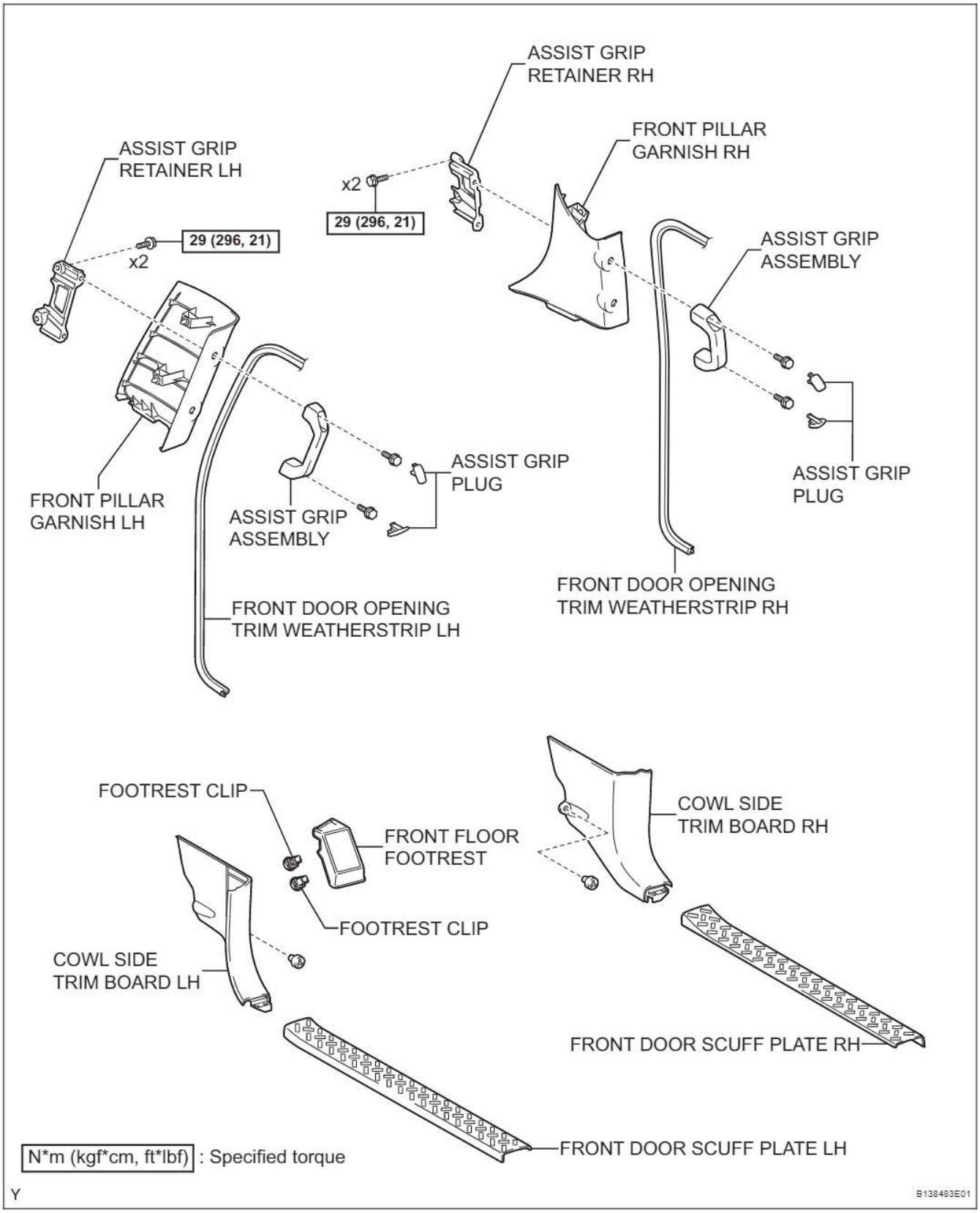


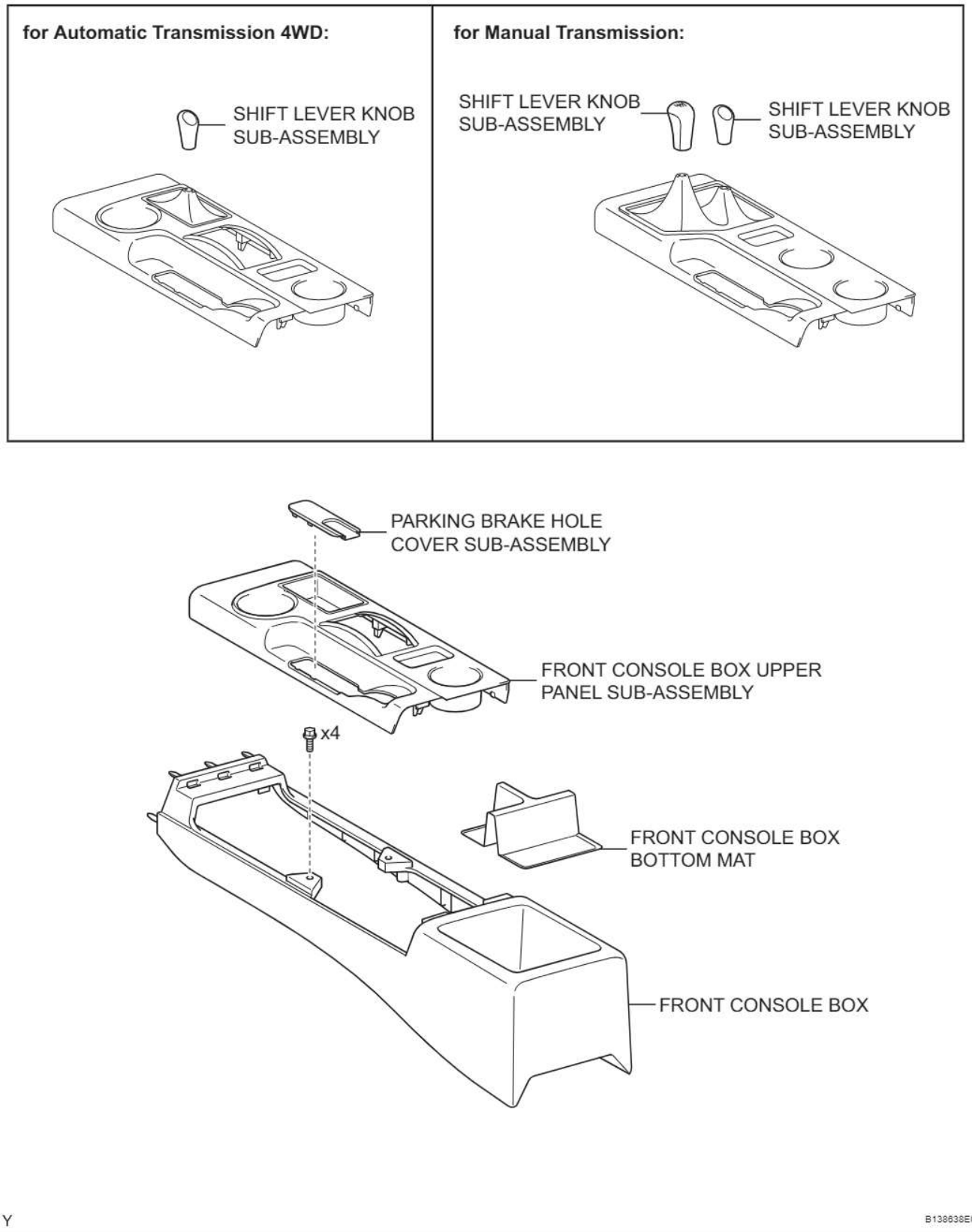
2. **INSTALL SPEAKER MOUNTING COVER**
   (a) Engage the 8 clips and install the speaker mounting cover.
3. **INSTALL DECK SIDE GARNISH (See page IR-41)**
4. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
   Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)

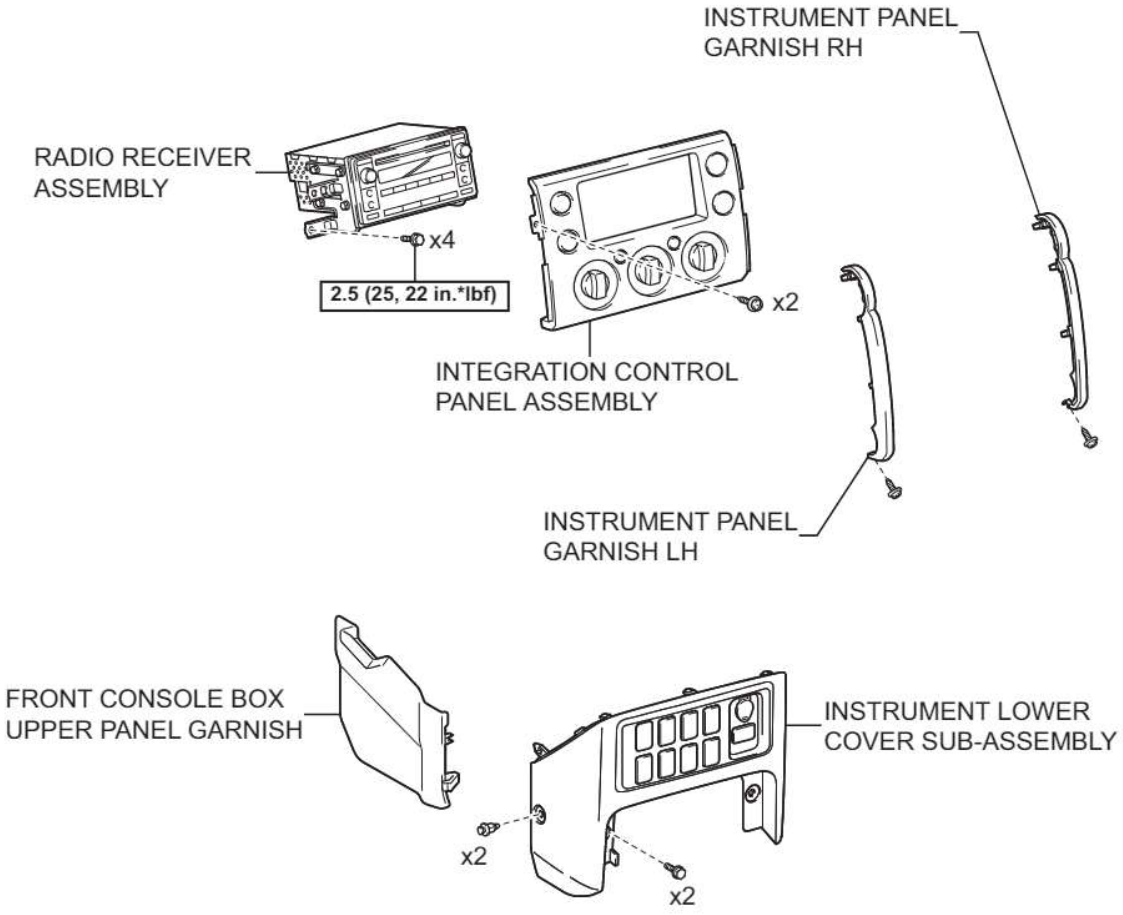
AV

RADIO ANTENNA CORD

COMPONENTS



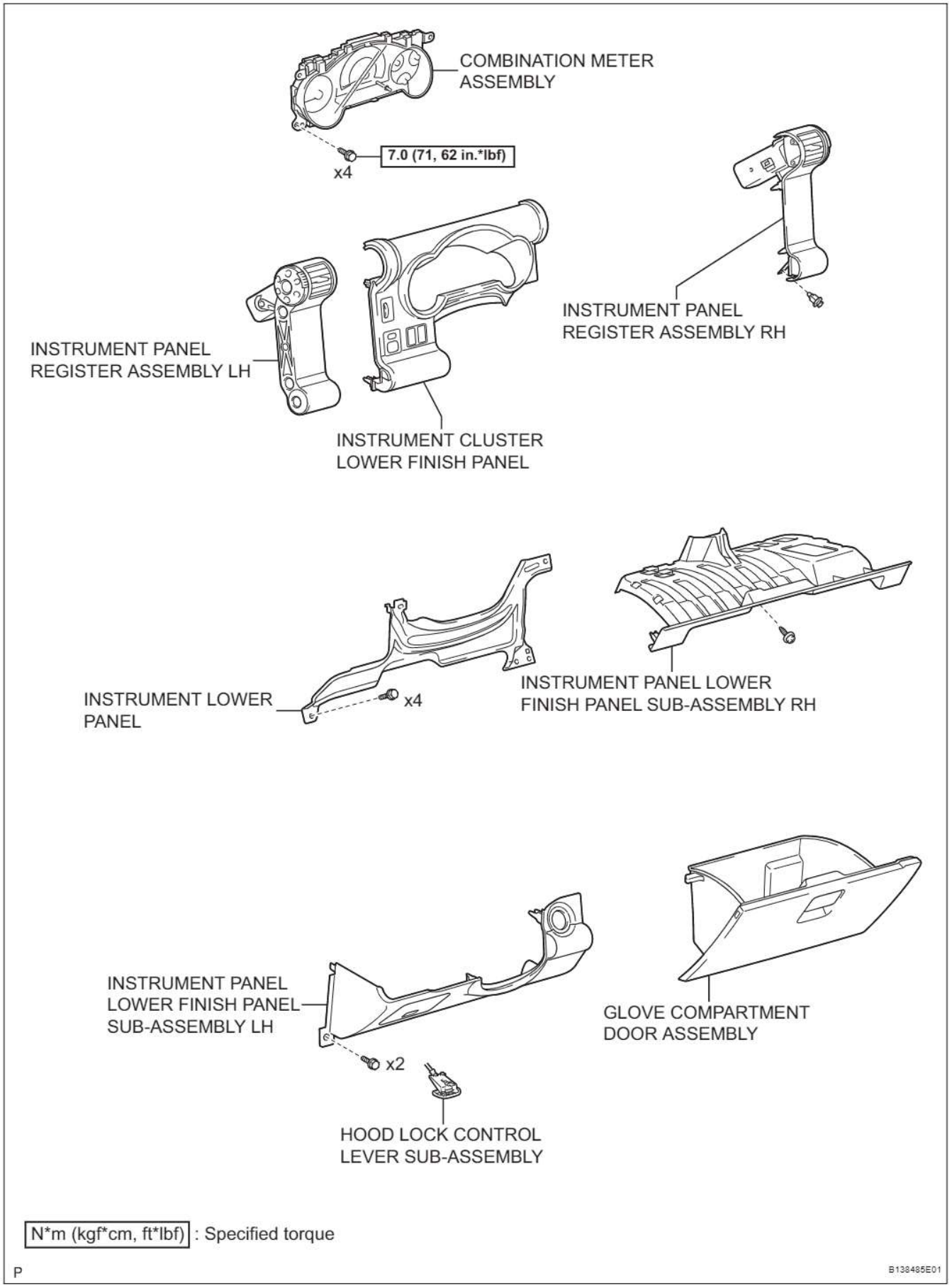

for Automatic Transmission 4WD:
SHIFT LEVER KNOB SUB-ASSEMBLY
for Manual Transmission:
SHIFT LEVER KNOB SUB-ASSEMBLY
SHIFT LEVER KNOB SUB-ASSEMBLY
PARKING BRAKE HOLE COVER SUB-ASSEMBLY
FRONT CONSOLE BOX UPPER PANEL SUB-ASSEMBLY
x4
FRONT CONSOLE BOX BOTTOM MAT
FRONT CONSOLE BOX
Y
B138638E01



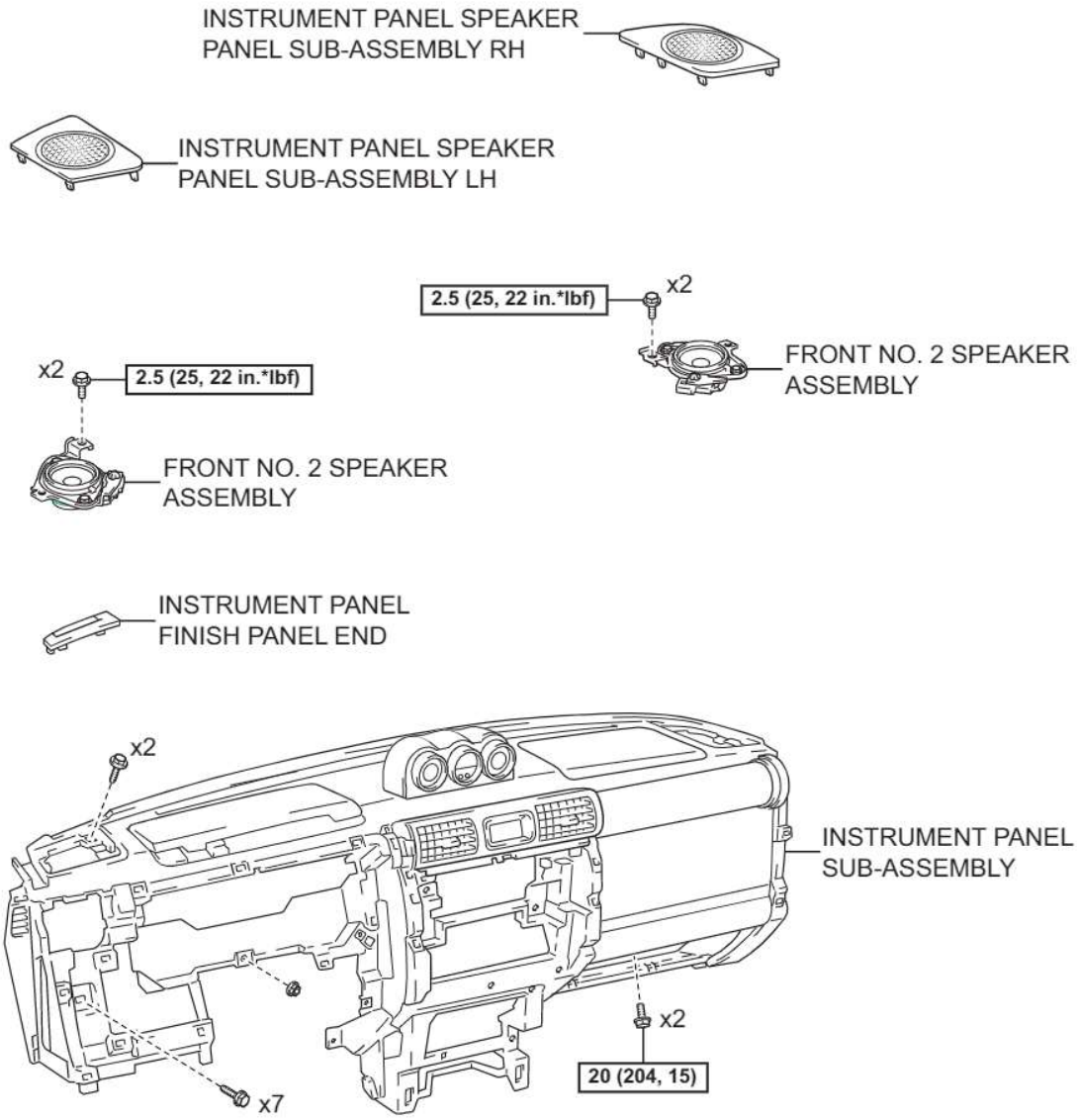
N*m (kgf*cm, ft*lbf) : Specified torque

P

B138484E01


COMBINATION METER ASSEMBLY
7.0 (71, 62 in.*lbf)
x4
INSTRUMENT PANEL REGISTER ASSEMBLY RH
INSTRUMENT PANEL REGISTER ASSEMBLY LH
INSTRUMENT CLUSTER LOWER FINISH PANEL
INSTRUMENT LOWER PANEL
x4
INSTRUMENT PANEL LOWER FINISH PANEL SUB-ASSEMBLY RH
INSTRUMENT PANEL LOWER FINISH PANEL SUB-ASSEMBLY LH
x2
HOOD LOCK CONTROL LEVER SUB-ASSEMBLY
GLOVE COMPARTMENT DOOR ASSEMBLY
N*m (kgf*cm, ft*lbf) : Specified torque
P
B138485E01

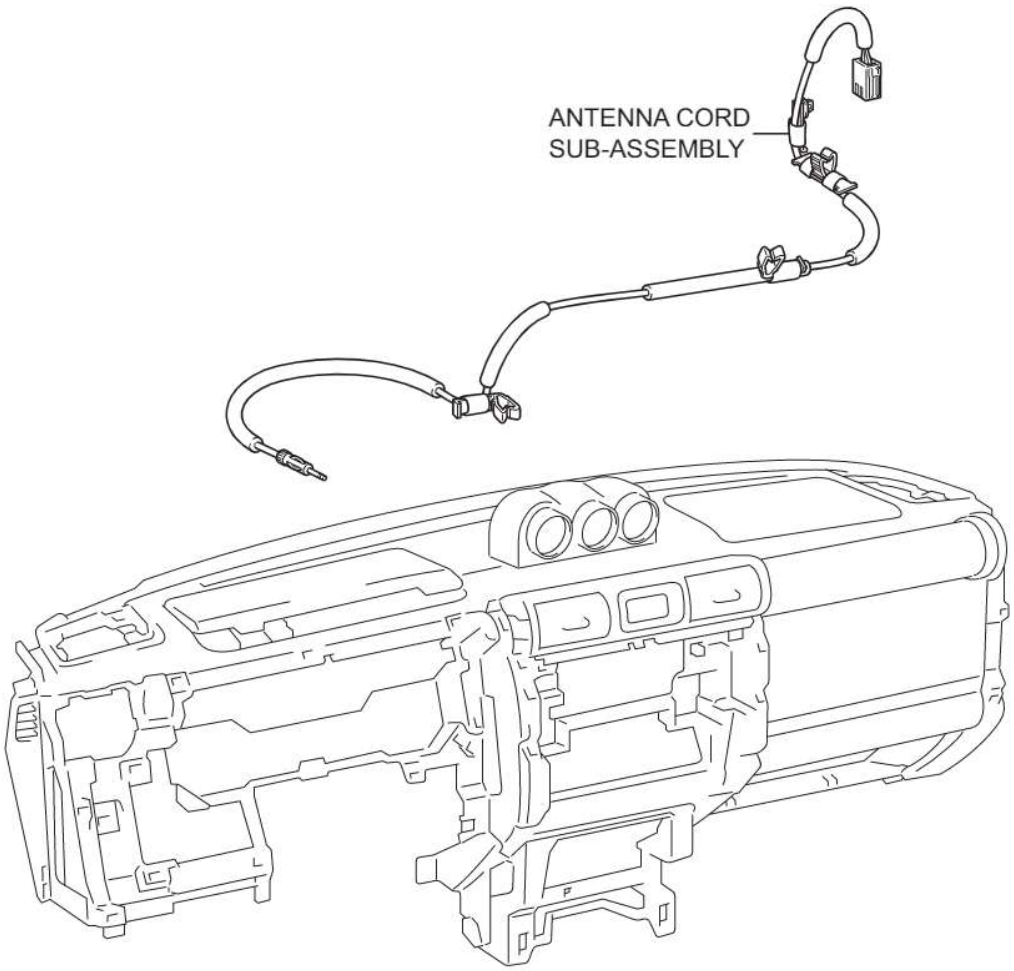
AV



N*m (kgf*cm, ft*lbf) : Specified torque

P

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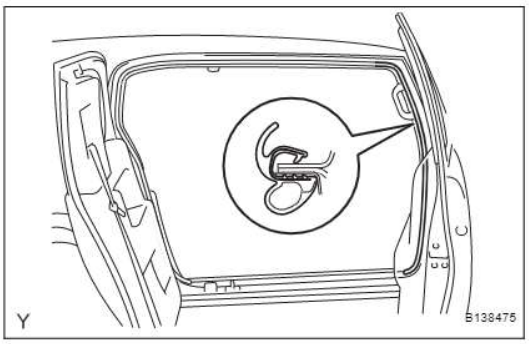
Y

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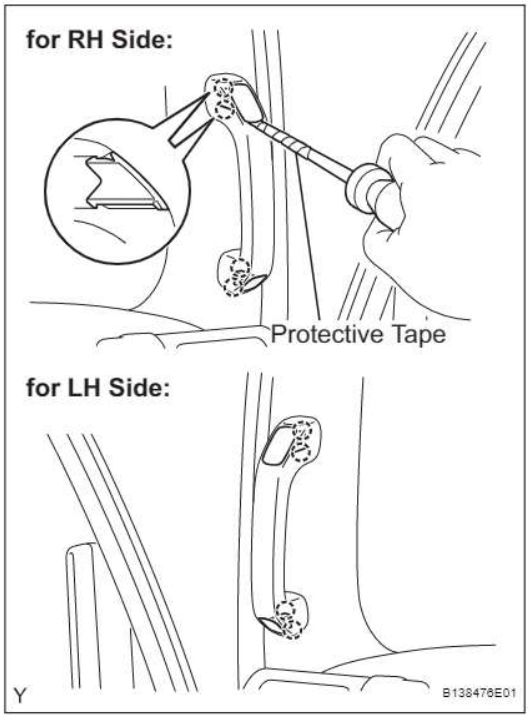
REMOVAL

CAUTION:
Some of these service operations affect the SRS airbag system. Read the precautionary notices concerning the SRS airbag system before servicing (See page RS-1).

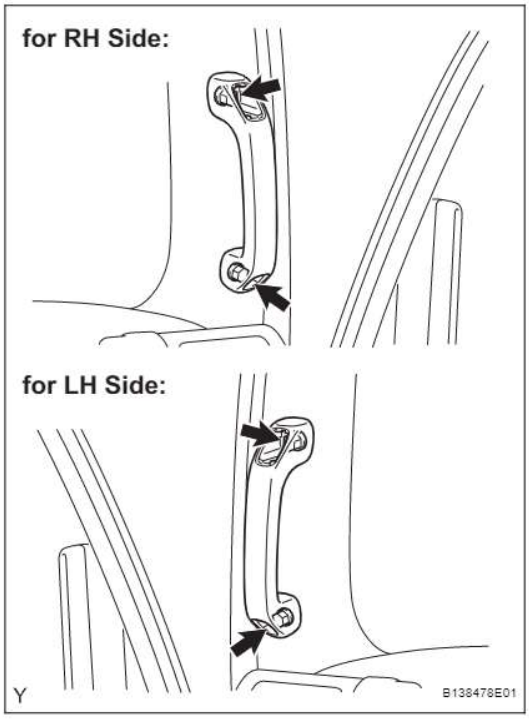
1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   CAUTION:
   Wait for at least 90 seconds after disconnecting the cable to prevent the airbag from working.
2. **REMOVE FRONT DOOR SCUFF PLATE RH (See page IR-15)**
3. **REMOVE FRONT DOOR SCUFF PLATE LH (See page IR-15)**
4. **REMOVE FRONT FLOOR FOOTREST (See page IR-2)**
5. **REMOVE FOOTREST CLIP (See page IR-2)**
6. **REMOVE COWL SIDE TRIM BOARD RH (See page IR-15)**
7. **REMOVE COWL SIDE TRIM BOARD LH (See page IR-15)**
8. **SEPARATE FRONT DOOR OPENING TRIM WEATHERSTRIP RH**
   (a) Remove the front door opening trim weatherstrip to the extent that the front pillar garnish and the instrument panel lower finish panel can be removed.
9. **SEPARATE FRONT DOOR OPENING TRIM WEATHERSTRIP LH**
   HINT:
   Use the same procedure as for the RH side.



AV



10. **REMOVE ASSIST GRIP PLUG**
HINT:
Use the same procedure to remove all the assist grip plugs.
(a) Using a screwdriver with its tip wrapped in protective tape, disengage the 2 claws and remove the assist grip plug.

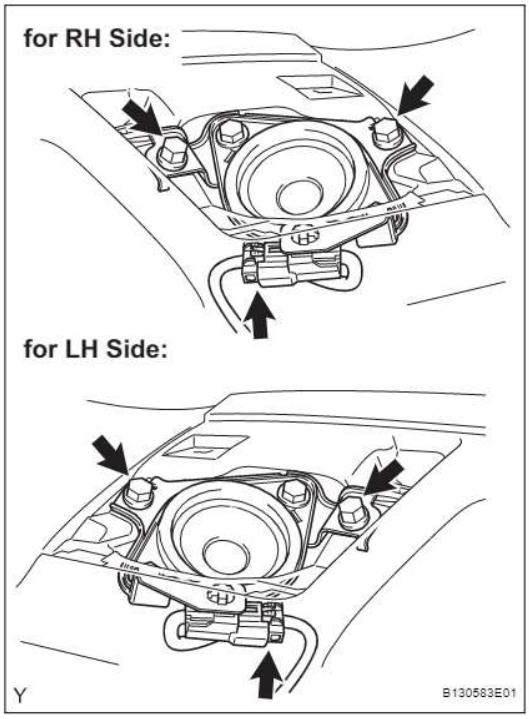


11. **REMOVE ASSIST GRIP ASSEMBLY**
HINT:
Use the same procedure to remove all the assist grips.
(a) Remove the 2 screws and the assist grip.
12. **REMOVE FRONT PILLAR GARNISH RH (See page IR-18)**
13. **REMOVE FRONT PILLAR GARNISH LH (See page IR-18)**
14. **REMOVE ASSIST GRIP RETAINER RH (See page IP-16)**
15. **REMOVE ASSIST GRIP RETAINER LH (See page IP-16)**
16. **REMOVE INSTRUMENT PANEL GARNISH LH (See page IP-10)**
17. **REMOVE INSTRUMENT PANEL GARNISH RH (See page IP-10)**
18. **REMOVE INTEGRATION CONTROL PANEL ASSEMBLY (See page IP-11)**
19. **REMOVE RADIO RECEIVER ASSEMBLY (See page AV-55)**
20. **REMOVE PARKING BRAKE HOLE COVER SUB-ASSEMBLY (See page IP-11)**
21. **REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY (for Manual Transmission) (See page IP-11)**
22. **REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY (for 4WD) (See page IP-11)**

AV

23. REMOVE FRONT CONSOLE BOX UPPER PANEL SUB-ASSEMBLY (See page IP-12)
24. REMOVE FRONT CONSOLE BOX BOTTOM MAT (See page IP-12)
25. REMOVE FRONT CONSOLE BOX (See page IP-12)
26. REMOVE FRONT CONSOLE BOX UPPER PANEL GARNISH (See page IP-12)
27. REMOVE INSTRUMENT LOWER COVER SUB-ASSEMBLY (See page IP-13)
28. REMOVE INSTRUMENT PANEL REGISTER ASSEMBLY LH (See page IP-13)
29. REMOVE HOOD LOCK CONTROL LEVER SUB-ASSEMBLY (See page IP-13)
30. REMOVE INSTRUMENT PANEL LOWER FINISH PANEL SUB-ASSEMBLY LH (See page IP-14)
31. REMOVE INSTRUMENT LOWER PANEL (See page IP-14)
32. REMOVE INSTRUMENT CLUSTER LOWER FINISH PANEL (See page IP-14)
33. REMOVE COMBINATION METER ASSEMBLY (See page IP-14)
34. REMOVE GLOVE COMPARTMENT DOOR ASSEMBLY (See page IP-15)
35. REMOVE INSTRUMENT PANEL LOWER FINISH PANEL SUB-ASSEMBLY RH (See page IP-15)
36. REMOVE INSTRUMENT PANEL REGISTER ASSEMBLY RH (See page IP-16)
37. REMOVE INSTRUMENT PANEL SPEAKER PANEL SUB-ASSEMBLY RH (See page IP-16)
38. REMOVE INSTRUMENT PANEL SPEAKER PANEL SUB-ASSEMBLY LH (See page IP-16)

AV



39. REMOVE FRONT NO. 2 SPEAKER ASSEMBLY

HINT:

Use the same procedure for both sides.

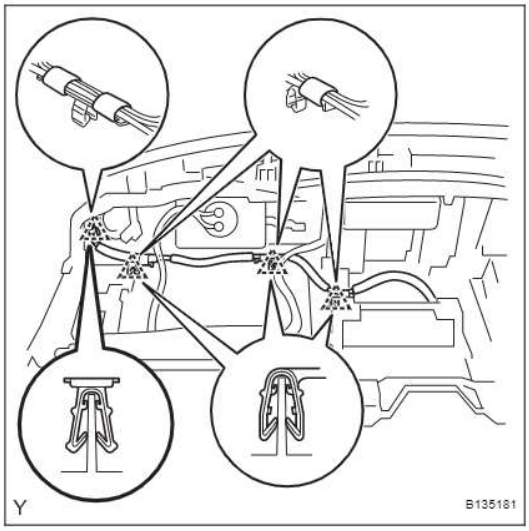
(a) Remove the 2 bolts and the front No. 2 speaker.

(b) Disconnect the speaker connector.

40. DISCONNECT PASSENGER AIRBAG CONNECTOR (See page IP-16)

41. REMOVE INSTRUMENT PANEL SUB-ASSEMBLY (See page IP-16)

42. REMOVE INSTRUMENT PANEL FINISH PANEL END (See page IP-21)



43. REMOVE ANTENNA CORD SUB-ASSEMBLY

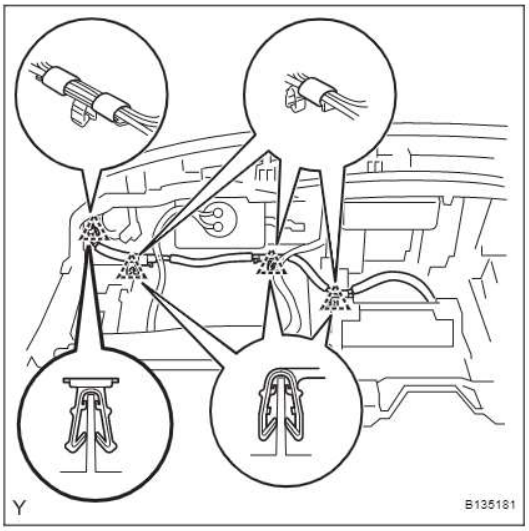
(a) Disengage the 4 clamps.

(b) Remove the 3 pieces of tape and the antenna cord.

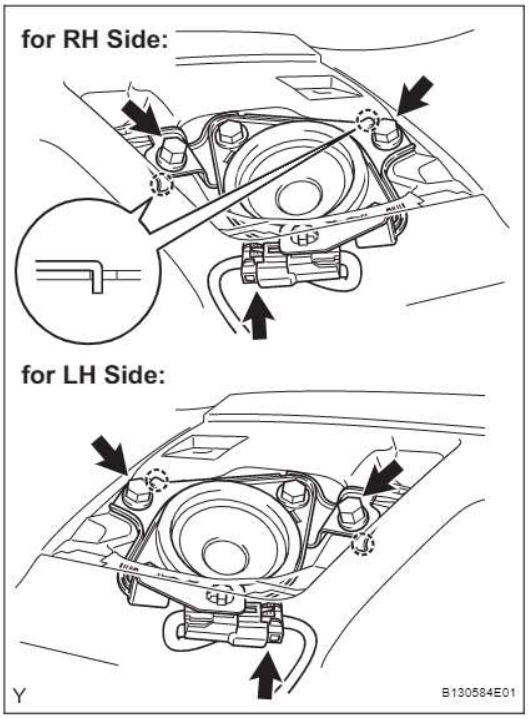
AV

INSTALLATION

CAUTION:
Some of these service operations affect the SRS airbag system. Read the precautionary notices concerning the SRS airbag system before servicing (See page RS-1).



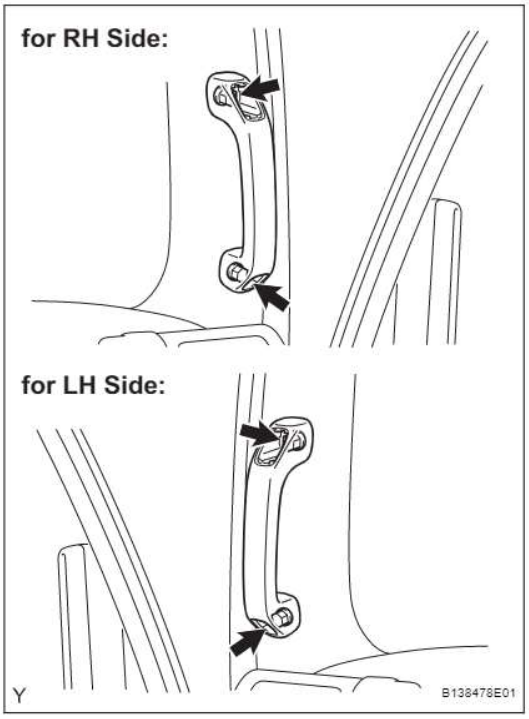
1. **INSTALL ANTENNA CORD SUB-ASSEMBLY**
   (a) Install the antenna cord with 3 new pieces of tape.
   (b) Engage the 4 clamps.
2. **INSTALL INSTRUMENT PANEL SUB-ASSEMBLY (See page IP-26)**
3. **CONNECT PASSENGER AIRBAG CONNECTOR (See page IP-26)**
4. **INSTALL INSTRUMENT PANEL FINISH PANEL END (See page IP-27)**



5. **INSTALL FRONT NO. 2 SPEAKER ASSEMBLY**
   HINT:
   Use the same procedure for both sides.
   (a) Connect the speaker connector.
   (b) Insert the 2 hooks into the instrument panel and install the front No. 2 speaker with the 2 bolts.
   Torque: 2.5 N*m (25 kgf*cm, 22 in.*lbf)
6. **INSTALL INSTRUMENT PANEL SPEAKER PANEL SUB-ASSEMBLY RH (See page IP-27)**
7. **INSTALL INSTRUMENT PANEL SPEAKER PANEL SUB-ASSEMBLY LH (See page IP-27)**
8. **INSTALL INSTRUMENT PANEL REGISTER ASSEMBLY RH (See page IP-27)**
9. **INSTALL INSTRUMENT PANEL LOWER FINISH PANEL SUB-ASSEMBLY RH (See page IP-28)**
10. **INSTALL GLOVE COMPARTMENT DOOR ASSEMBLY (See page IP-28)**
11. **INSTALL COMBINATION METER ASSEMBLY (See page IP-28)**
12. **INSTALL INSTRUMENT CLUSTER LOWER FINISH PANEL (See page IP-29)**
13. **INSTALL INSTRUMENT LOWER PANEL (See page IP-29)**
14. **INSTALL INSTRUMENT PANEL LOWER FINISH PANEL SUB-ASSEMBLY LH (See page IP-29)**
15. **INSTALL HOOD LOCK CONTROL LEVER SUB-ASSEMBLY (See page IP-30)**

AV

16. INSTALL INSTRUMENT PANEL REGISTER ASSEMBLY LH (See page IP-30)
17. INSTALL INSTRUMENT LOWER COVER SUB-ASSEMBLY (See page IP-30)
18. INSTALL FRONT CONSOLE BOX UPPER PANEL GARNISH (See page IP-31)
19. INSTALL FRONT CONSOLE BOX (See page IP-31)
20. INSTALL FRONT CONSOLE BOX BOTTOM MAT (See page IP-31)
21. INSTALL FRONT CONSOLE BOX UPPER PANEL SUB-ASSEMBLY (See page IP-31)
22. INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (for 4WD) (See page IP-32)
23. INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (for Manual Transmission) (See page IP-32)
24. INSTALL PARKING BRAKE HOLE COVER SUB-ASSEMBLY (See page IP-32)
25. INSTALL RADIO RECEIVER ASSEMBLY (See page AV-56)
26. INSTALL INTEGRATION CONTROL PANEL ASSEMBLY (See page IP-32)
27. INSTALL INSTRUMENT PANEL GARNISH LH (See page IP-33)
28. INSTALL INSTRUMENT PANEL GARNISH RH (See page IR-43)
29. INSTALL ASSIST GRIP RETAINER RH (See page IP-27)
30. INSTALL ASSIST GRIP RETAINER LH (See page IP-27)
31. INSTALL FRONT PILLAR GARNISH RH (See page IR-43)
32. INSTALL FRONT PILLAR GARNISH LH (See page IR-43)

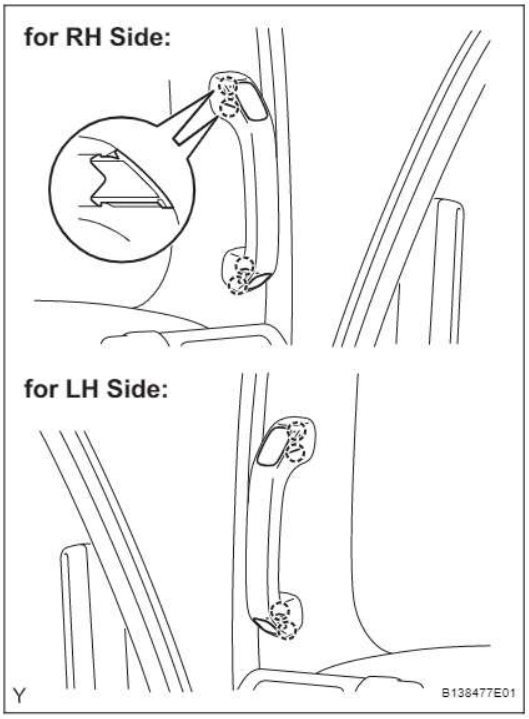


33. INSTALL ASSIST GRIP ASSEMBLY

HINT:

Use the same procedure to install all the assist grips.

(a) Install the assist grip with the 2 screws.

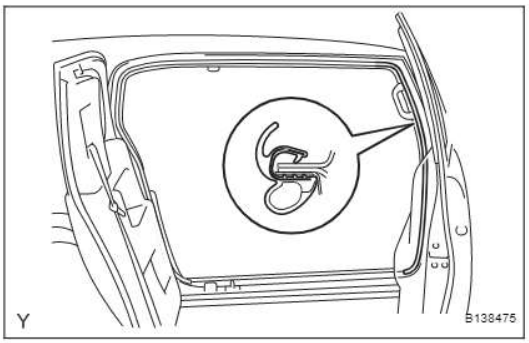


34. INSTALL ASSIST GRIP PLUG

HINT:

Use the same procedure to install all the assist grip plugs.

(a) Engage the 2 claws and install the assist grip plug.



35. INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP RH

(a) Install the front door opening trim weatherstrip.

36. INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP LH

HINT:

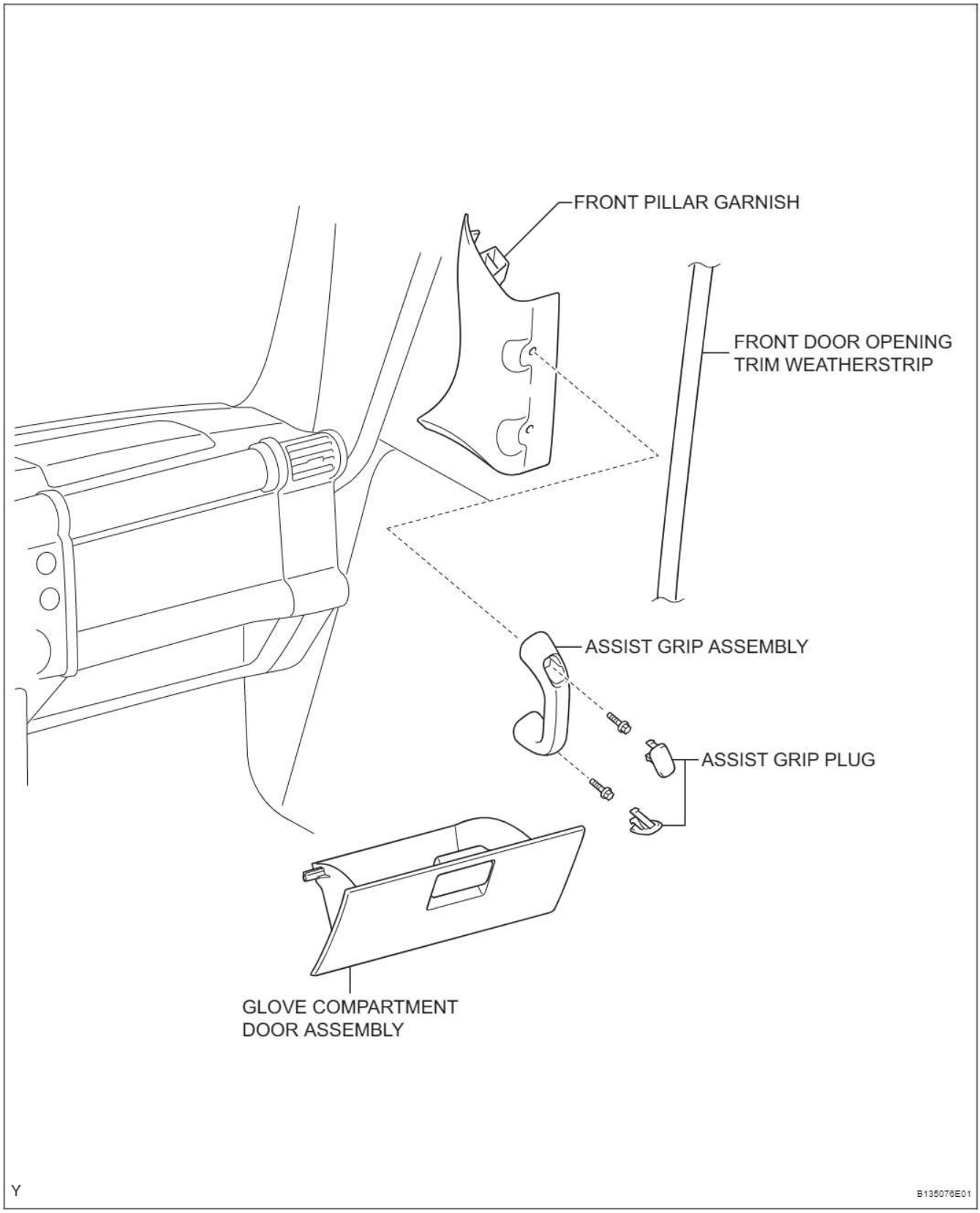
Use the same procedure as for the RH side.

37. INSTALL COWL SIDE TRIM BOARD RH (See page IR-45)

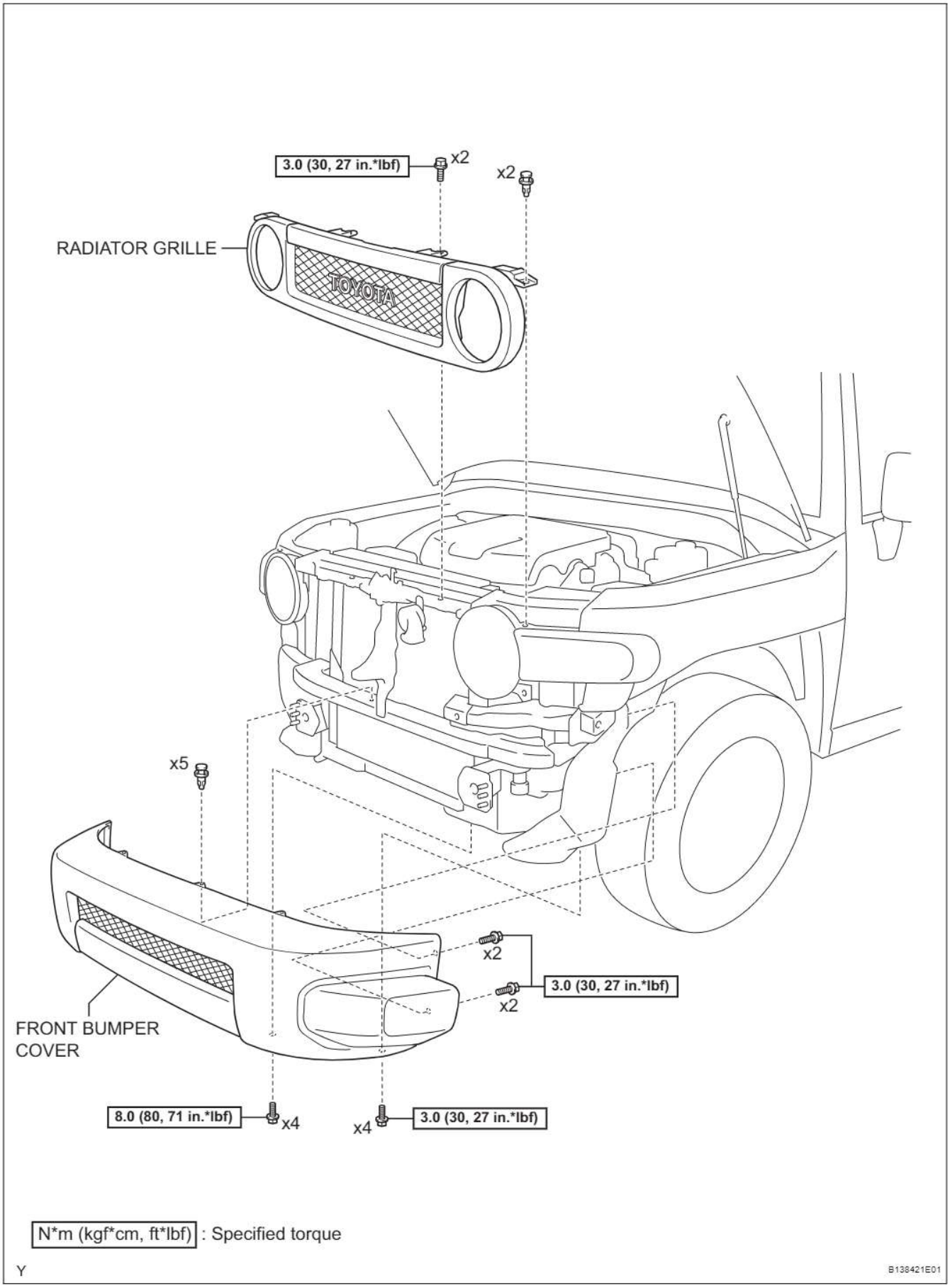
38. INSTALL COWL SIDE TRIM BOARD LH (See page IR-45)
39. INSTALL FOOTREST CLIP (See page IR-2)
40. INSTALL FRONT FLOOR FOOTREST (See page IR-2)
41. INSTALL FRONT DOOR SCUFF PLATE RH (See page IR-45)
42. INSTALL FRONT DOOR SCUFF PLATE LH (See page IR-45)
43. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL
    Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)
44. INSPECT SRS WARNING LIGHT
    (See page RS-29)

RADIO ANTENNA HOLDER

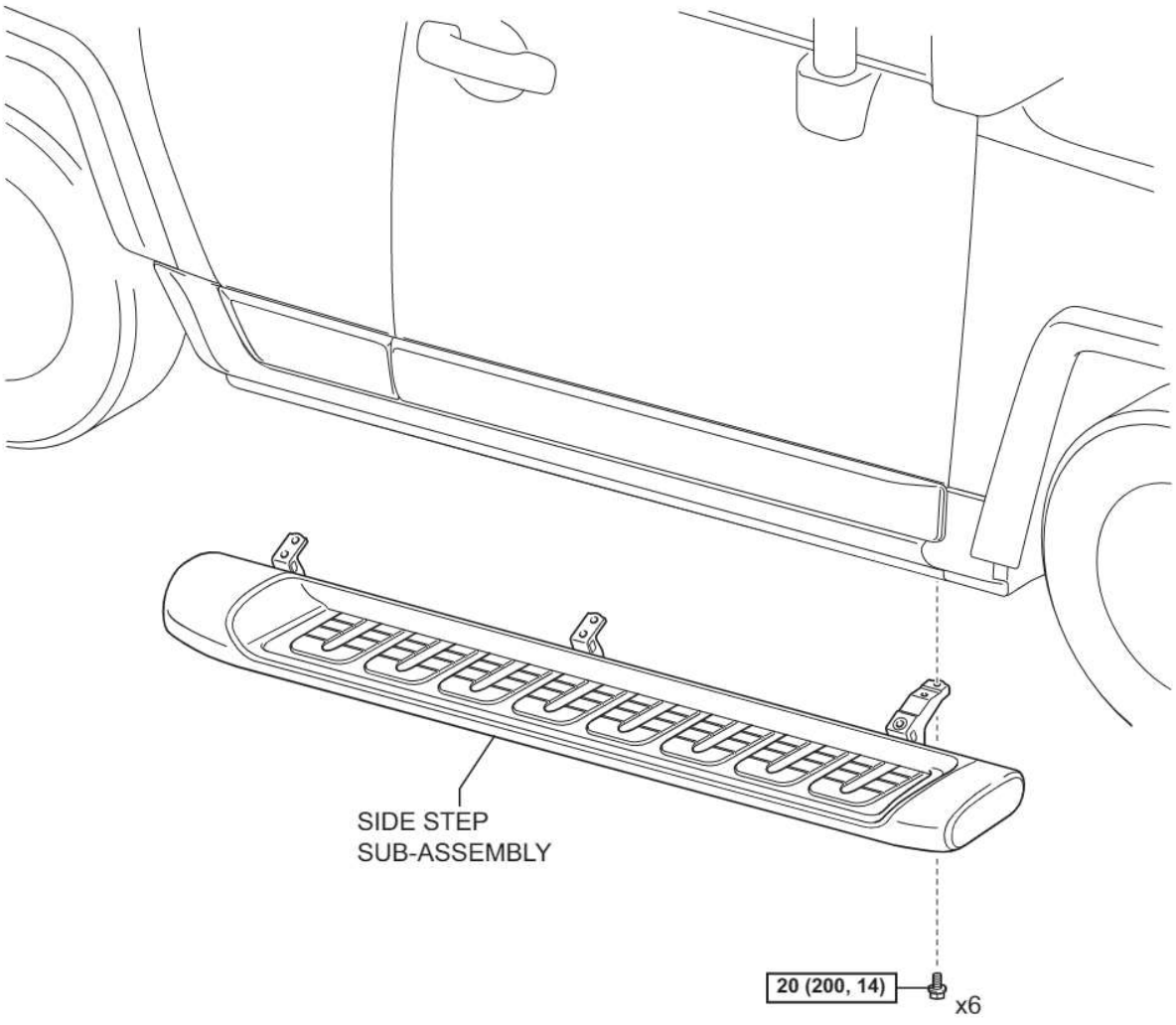
COMPONENTS



AV


3.0 (30, 27 in.*lbf)
x2
x2
RADIATOR GRILLE
TOYOTA
x5
x2
3.0 (30, 27 in.*lbf)
x2
FRONT BUMPER COVER
8.0 (80, 71 in.*lbf)
x4
x4
3.0 (30, 27 in.*lbf)
N*m (kgf*cm, ft*lbf) : Specified torque
Y
B138421E01

w/ Side Step:

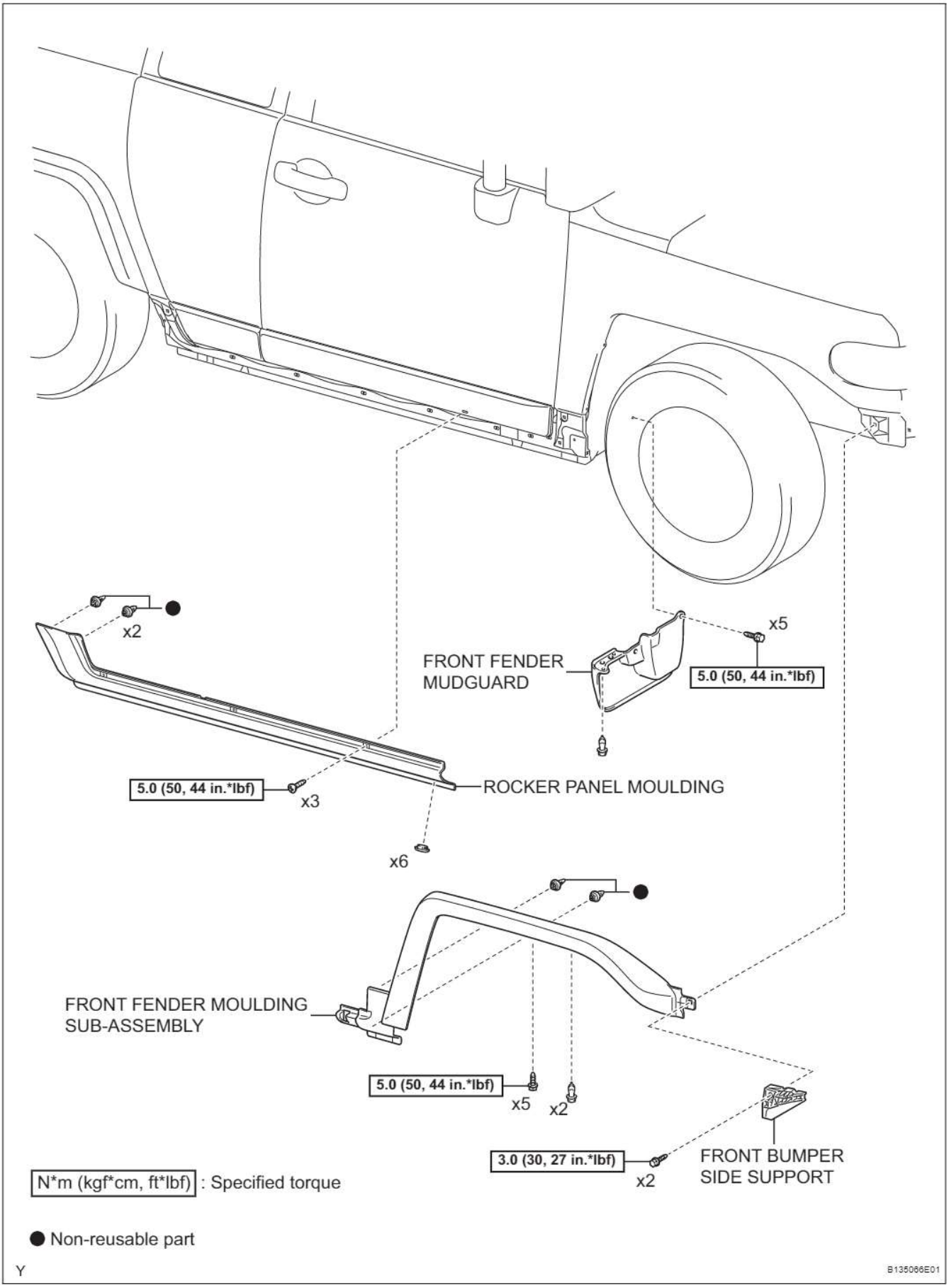


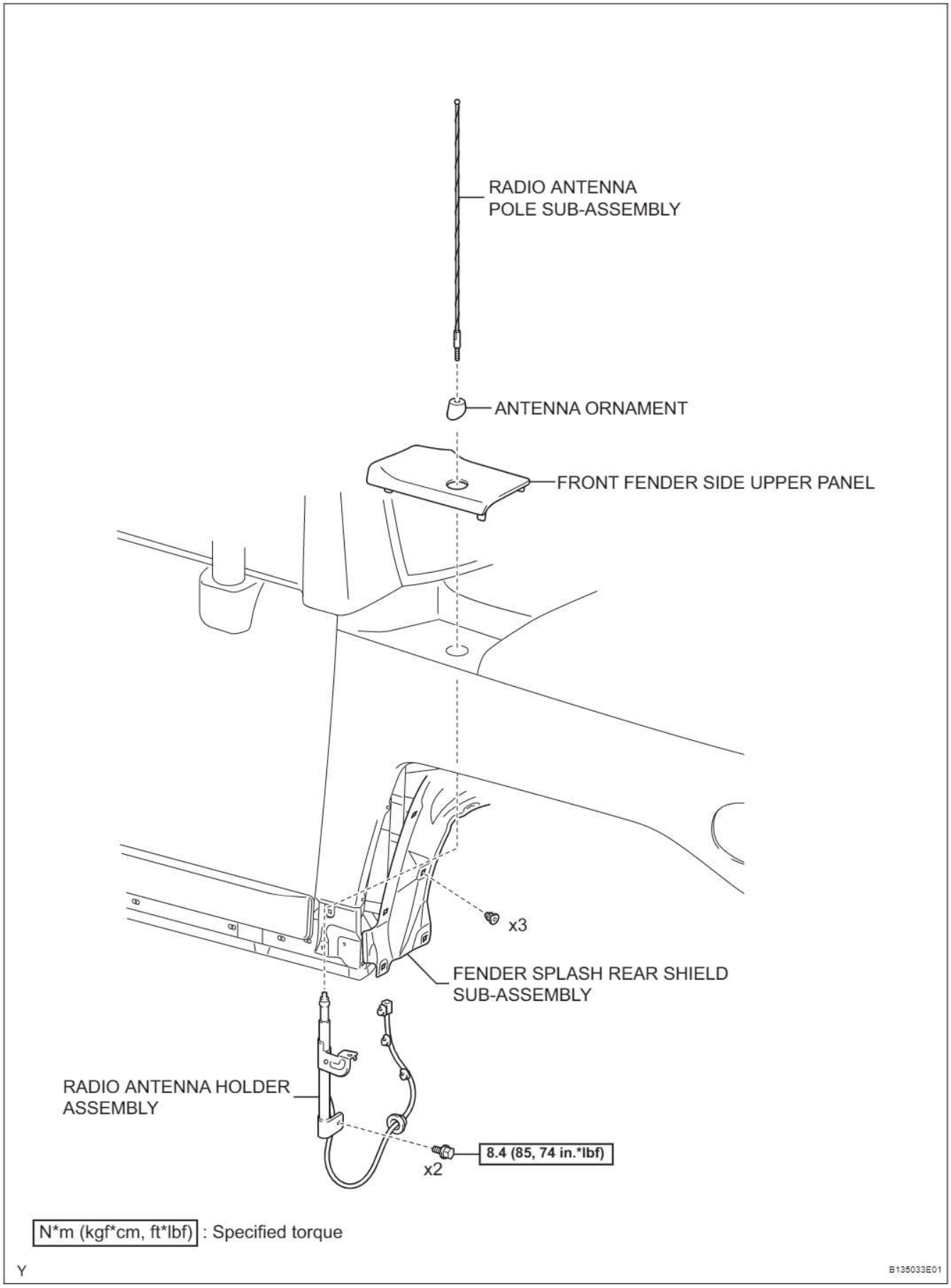
N*m (kgf*cm, ft*lbf) : Specified torque

Y

B138495E01

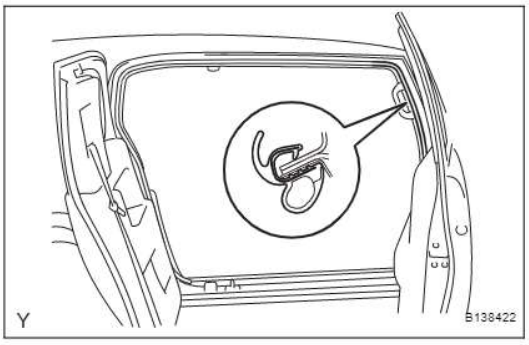
AV


x2
FRONT FENDER MUDGUARD
x5
5.0 (50, 44 in.*lbf)
5.0 (50, 44 in.*lbf)
x3
ROCKER PANEL MOULDING
x6
FRONT FENDER MOULDING SUB-ASSEMBLY
5.0 (50, 44 in.*lbf)
x5
x2
3.0 (30, 27 in.*lbf)
x2
FRONT BUMPER SIDE SUPPORT
N*m (kgf*cm, ft*lbf) : Specified torque
● Non-reusable part
Y
B135066E01

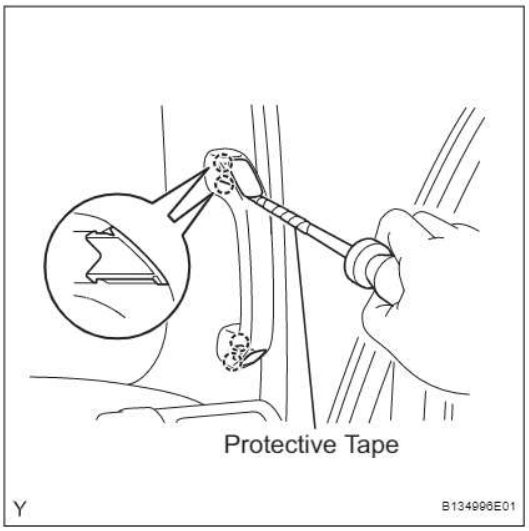

RADIO ANTENNA
POLE SUB-ASSEMBLY
ANTENNA ORNAMENT
FRONT FENDER SIDE UPPER PANEL
x3
FENDER SPLASH REAR SHIELD
SUB-ASSEMBLY
RADIO ANTENNA HOLDER
ASSEMBLY
8.4 (85, 74 in.*lbf)
x2
N*m (kgf*cm, ft*lbf) : Specified torque
Y
B135033E01

REMOVAL

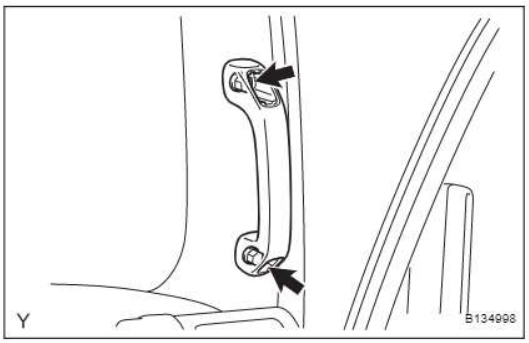
1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
2. **REMOVE GLOVE COMPARTMENT DOOR ASSEMBLY (See page IP-15)**
3. **REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP**
   (a) Remove the front door opening trim weatherstrip to the extent that the front pillar garnish can be removed.



4. **REMOVE ASSIST GRIP PLUG**
   HINT:
   Use the same procedure for both sides.
   (a) Using a screwdriver with its tip wrapped in protective tape, disengage the 2 claws and remove the assist grip plug.



5. **REMOVE ASSIST GRIP ASSEMBLY**
   (a) Remove the 2 screws and the assist grip.
6. **REMOVE FRONT PILLAR GARNISH (See page IR-18)**
7. **REMOVE RADIATOR GRILLE (See page ET-4)**
8. **REMOVE FRONT BUMPER COVER (See page ET-65)**
9. **REMOVE SIDE STEP SUB-ASSEMBLY (w/ Side Step)**
   HINT:
   Use the same procedure as for the LH side (See page ET-86).
10. **REMOVE ROCKER PANEL MOULDING**
    HINT:
    Use the same procedure as for the LH side (See page ET-66).
11. **REMOVE FRONT FENDER MUDGUARD**
    HINT:
    Use the same procedure as for the LH side (See page ET-83).



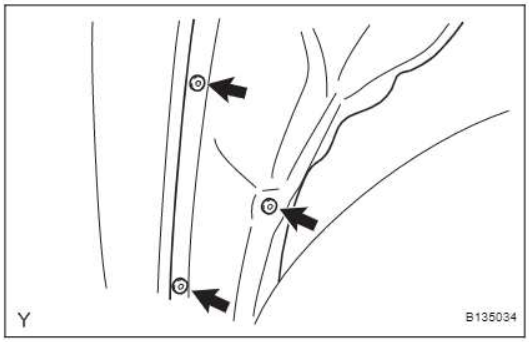
12. **REMOVE FRONT BUMPER SIDE SUPPORT**
HINT:
Use the same procedure as for the LH side (See page ET-5).

13. **REMOVE FRONT FENDER MOULDING SUB-ASSEMBLY**
HINT:
Use the same procedure as for the LH side (See page ET-67).

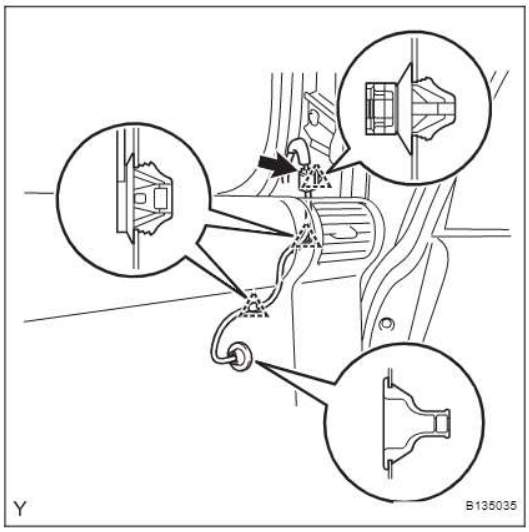
14. **REMOVE RADIO ANTENNA POLE SUB-ASSEMBLY (See page AV-116)**

15. **REMOVE ANTENNA ORNAMENT (See page WW-26)**

16. **REMOVE FRONT FENDER SIDE UPPER PANEL (See page WW-26)**

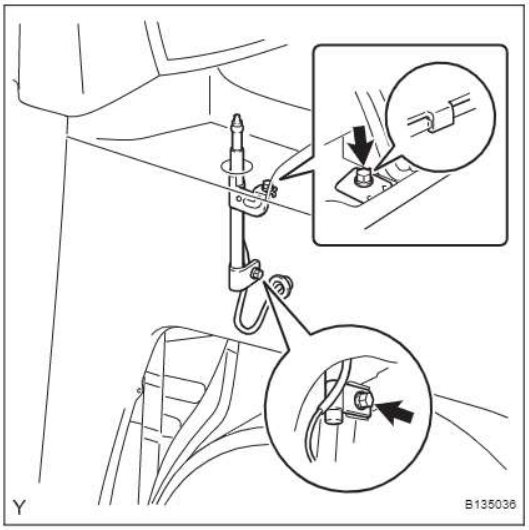


17. **REMOVE FENDER SPLASH REAR SHIELD SUB-ASSEMBLY**
(a) Remove the 3 clips and the fender splash rear shield to extent that the radio antenna holder can be removed.



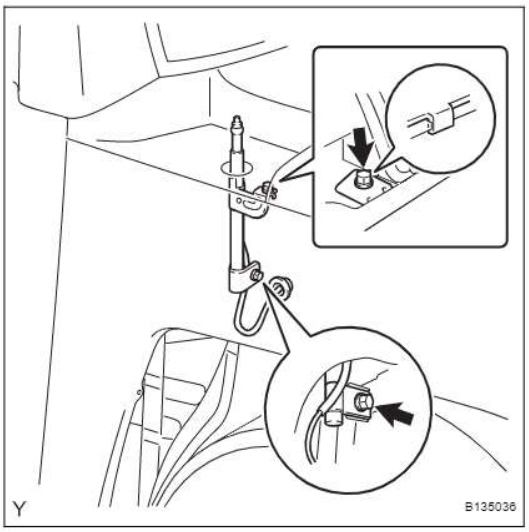
18. **REMOVE RADIO ANTENNA HOLDER ASSEMBLY**
(a) Disconnect the connector.
(b) Using a clip remover, remove the 2 clamps and the connector.
(c) Remove the grommet and insert the feeder line through the body hole.

AV



(d) Remove the 2 bolts, the hook and the radio antenna holder.

INSTALLATION



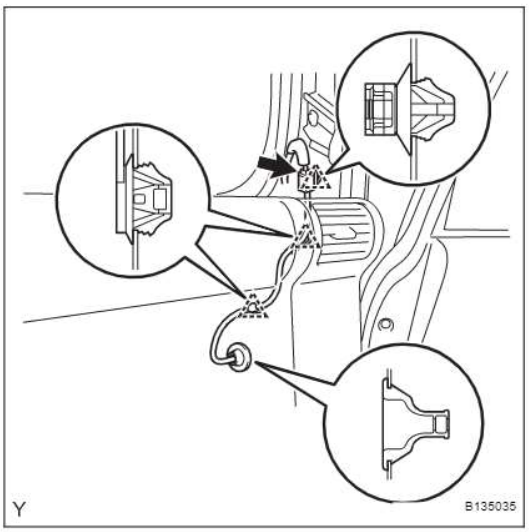
1. INSTALL RADIO ANTENNA HOLDER ASSEMBLY

(a) Hook the body side bracket onto the hook of the radio antenna holder and provisionally install the radio antenna holder.

(b) Insert the feeder line through the body hole and install the grommet.

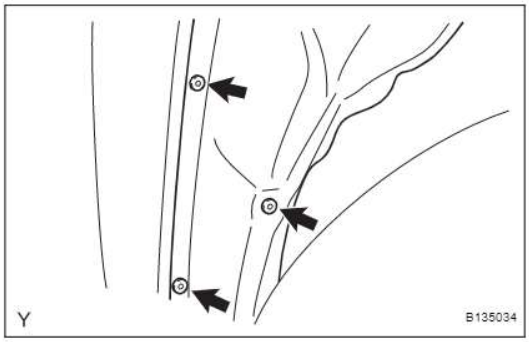
(c) Tighten bolt A and then bolt B.
Torque: 8.4 N*m (85 kgf*cm, 74 in.*lbf)

AV

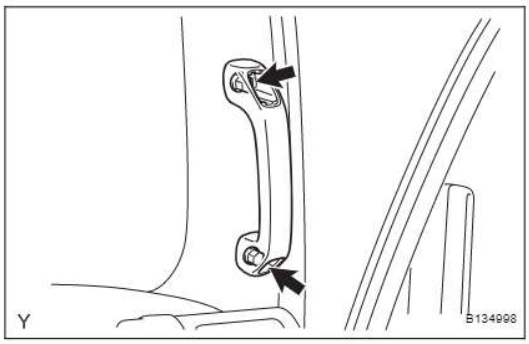


(d) Install the 2 clamps and the connector.

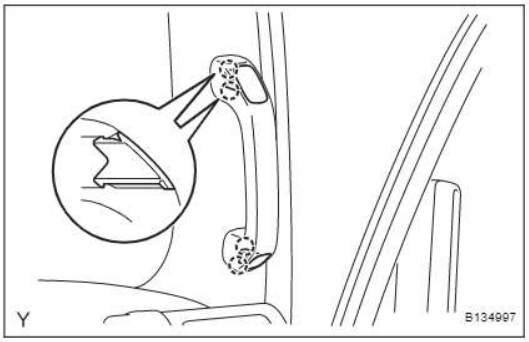
(e) Connect the connector.



2. **INSTALL FENDER SPLASH REAR SHIELD SUB-ASSEMBLY**
   (a) Install the fender splash rear shield with the 3 clips.
3. **INSTALL FRONT FENDER SIDE UPPER PANEL (See page WW-31)**
4. **INSTALL ANTENNA ORNAMENT (See page WW-31)**
5. **INSTALL RADIO ANTENNA POLE SUB-ASSEMBLY (See page AV-116)**
6. **INSTALL FRONT FENDER MOULDING SUB-ASSEMBLY**
   HINT:
   Use the same procedure as for the LH side (See page ET-77).
7. **INSTALL FRONT BUMPER SIDE SUPPORT**
   HINT:
   Use the same procedure as for the LH side (See page ET-9).
8. **INSTALL FRONT FENDER MUDGUARD**
   HINT:
   Use the same procedure as for the LH side (See page ET-84).
9. **INSTALL ROCKER PANEL MOULDING**
   HINT:
   Use the same procedure as for the LH side (See page ET-78).
10. **INSTALL SIDE STEP SUB-ASSEMBLY (w/ Side Step)**
    HINT:
    Use the same procedure as for the LH side (See page ET-87).
11. **INSTALL FRONT BUMPER COVER (See page ET-79)**
12. **INSTALL RADIATOR GRILLE (See page ET-11)**
13. **INSTALL FRONT PILLAR GARNISH (See page IR-43)**
14. **INSTALL ASSIST GRIP ASSEMBLY**
    (a) Install the assist grip with the 2 screws.



AV

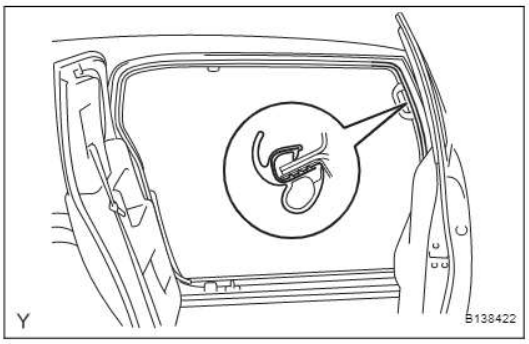


15. INSTALL ASSIST GRIP PLUG

HINT:

Use the same procedure for both sides.

(a) Engage the 2 claws and install the assist grip plug.



16. INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP

(a) Install the front door opening trim weatherstrip.

17. INSTALL GLOVE COMPARTMENT DOOR ASSEMBLY (See page IP-28)

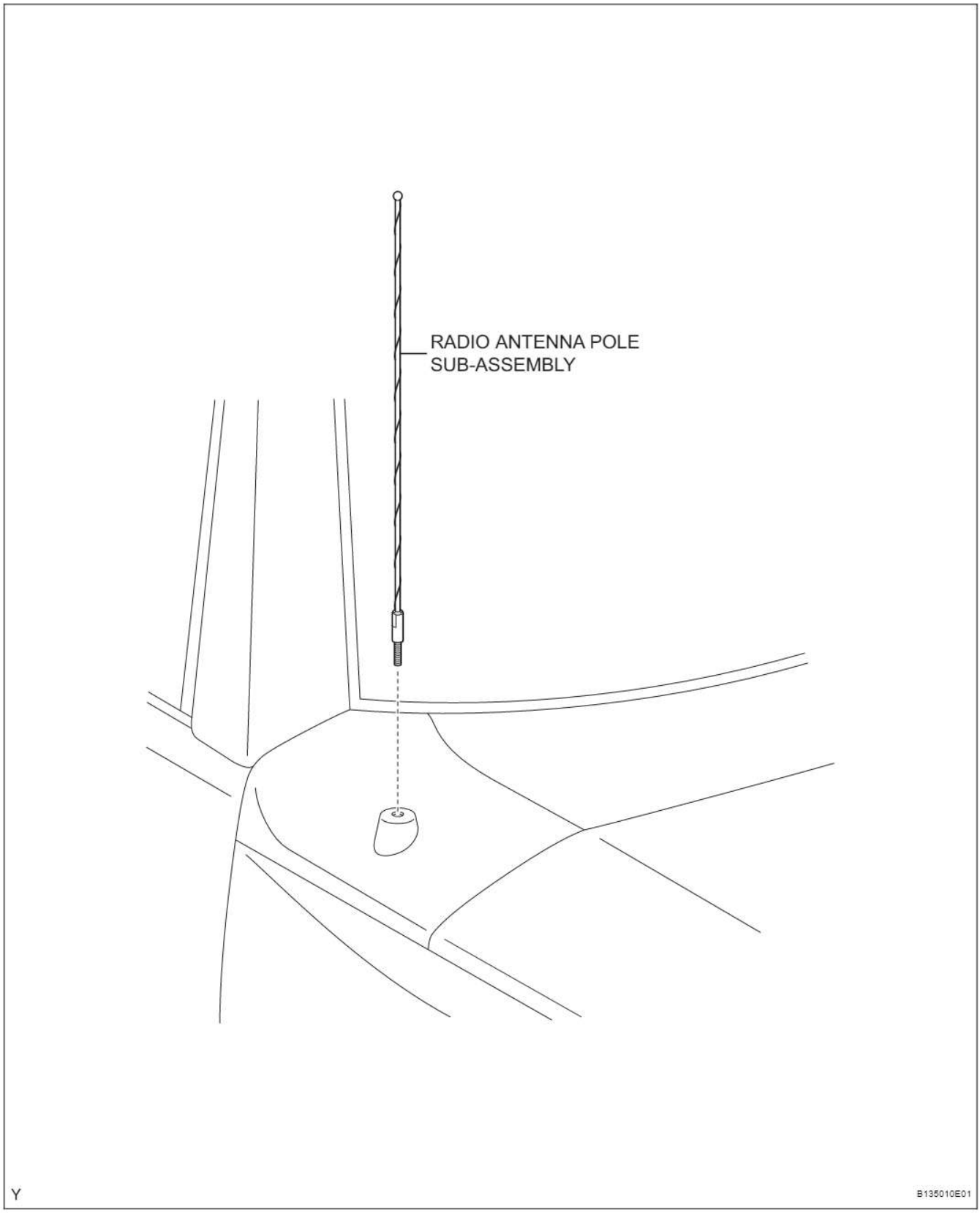
18. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

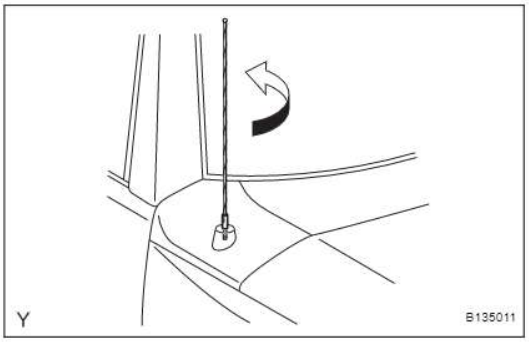
Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)

AV

RADIO ANTENNA POLE

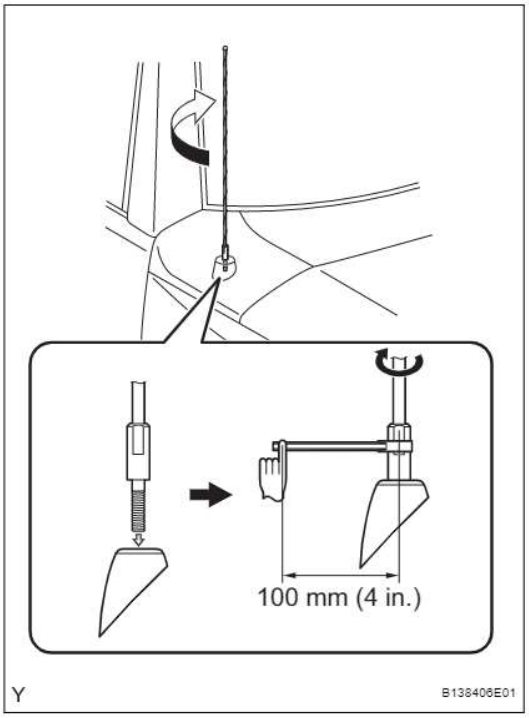
COMPONENTS





REMOVAL

1. **REMOVE RADIO ANTENNA POLE SUB-ASSEMBLY**
   (a) Remove the radio antenna pole by turning it in the direction of the arrow shown in the illustration.



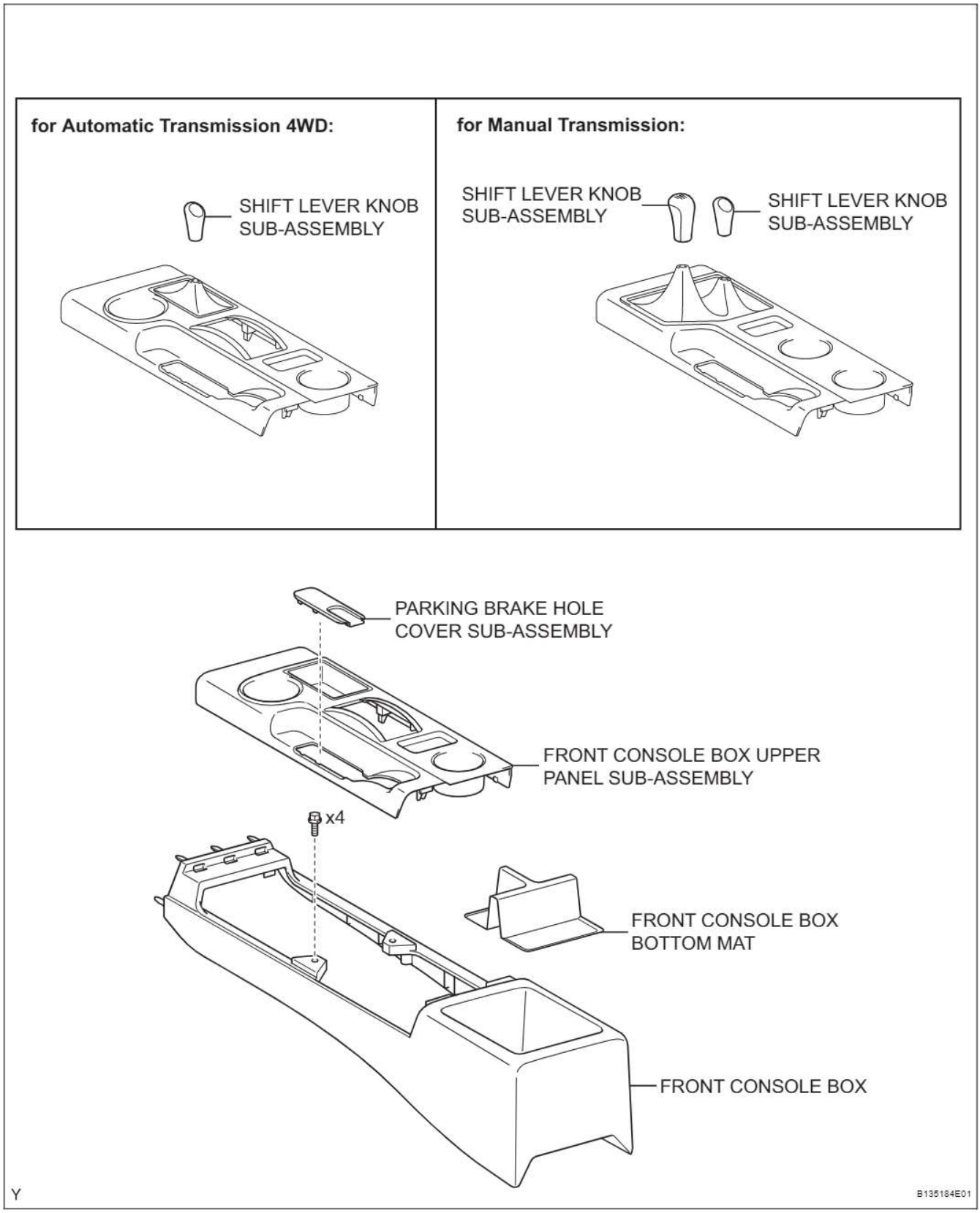
INSTALLATION

1. **INSTALL RADIO ANTENNA POLE SUB-ASSEMBLY**
   (a) Install the radio antenna pole by turning it in the direction of the arrow shown in the illustration.
   Torque: 3.3 N*m (35 kgf*cm, 29 in.*lbf)
   NOTICE:
   Use a short wrench, tighten with your finger, not your hand.

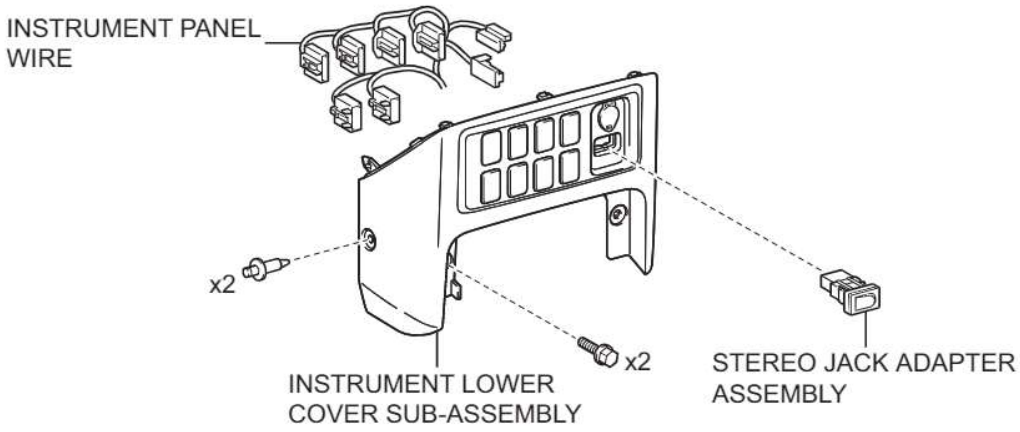
AV

STEREO JACK ADAPTER ASSEMBLY

COMPONENTS



AV

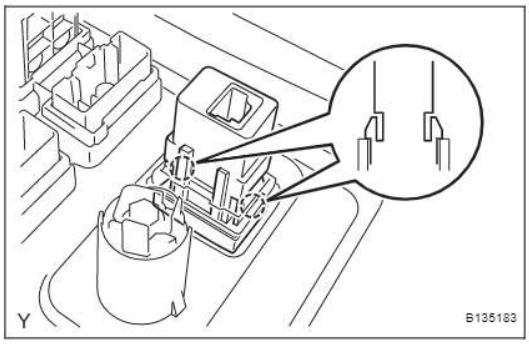


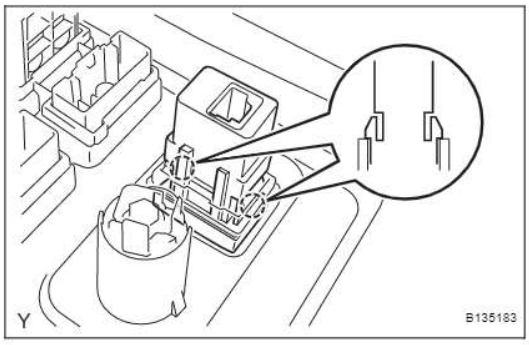
Y

B135182E01

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL
2. REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY (for Manual Transmission) (See page IP-11)
3. REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY (for 4WD) (See page IP-11)
4. REMOVE PARKING BRAKE HOLE COVER SUB-ASSEMBLY (See page IP-11)
5. REMOVE FRONT CONSOLE BOX UPPER PANEL SUB-ASSEMBLY (See page IP-12)
6. REMOVE FRONT CONSOLE BOX BOTTOM MAT (See page IP-12)
7. REMOVE FRONT CONSOLE BOX (See page IP-12)
8. REMOVE INSTRUMENT LOWER COVER SUB-ASSEMBLY (See page IP-13)
9. REMOVE STEREO JACK ADAPTER ASSEMBLY
   (a) Disengage the 2 claws and remove the stereo jack adapter.





INSTALLATION

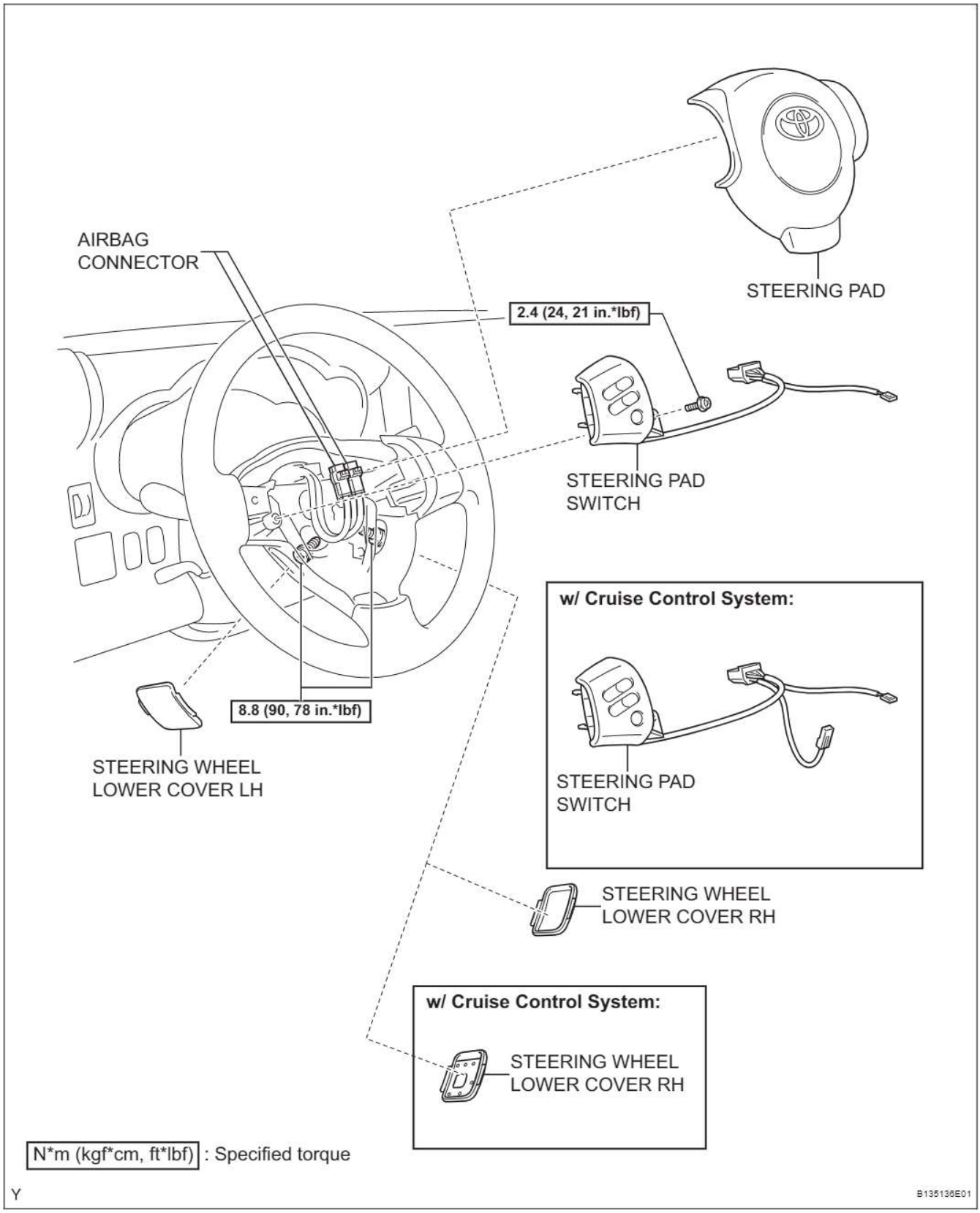
1. INSTALL STEREO JACK ADAPTER ASSEMBLY
   (a) Engage the 2 claws and install the stereo jack adapter.
2. INSTALL INSTRUMENT LOWER COVER SUB-ASSEMBLY (See page IP-30)
3. INSTALL FRONT CONSOLE BOX (See page IP-31)
4. INSTALL FRONT CONSOLE BOX BOTTOM MAT (See page IP-31)
5. INSTALL FRONT CONSOLE BOX UPPER PANEL SUB-ASSEMBLY (See page IP-31)
6. INSTALL PARKING BRAKE HOLE COVER SUB-ASSEMBLY (See page IP-32)
7. INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (for 4WD) (See page IP-32)
8. INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (for Manual Transmission) (See page IP-32)

AV

9. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)

STEERING PAD SWITCH

COMPONENTS

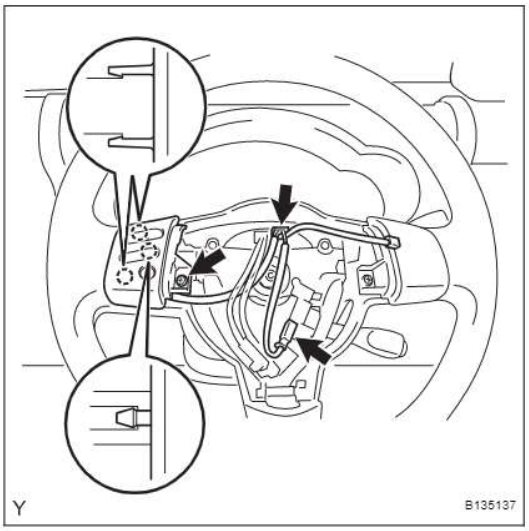


AV

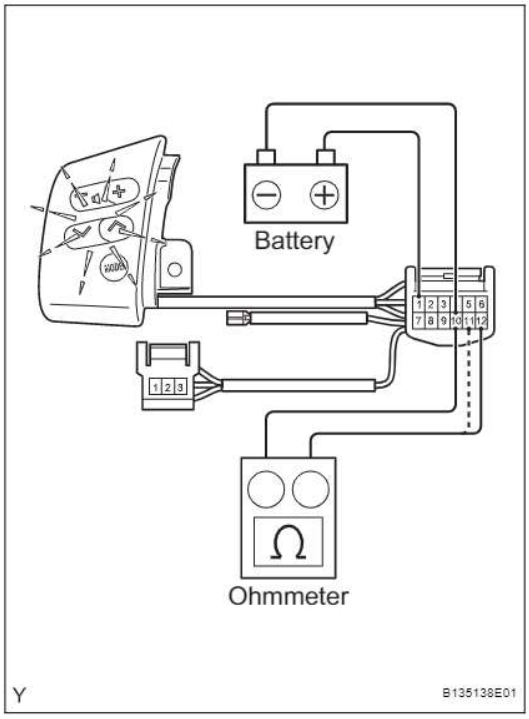
REMOVAL

CAUTION:
Some of these service operations affect the SRS airbag system. Read the precautionary notices concerning the SRS airbag system before servicing (See page RS-1).

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   CAUTION:
   Wait for at least 90 seconds after disconnecting the cable to prevent the airbag from working.
2. **REMOVE STEERING WHEEL LOWER COVER LH (See page RS-345)**
3. **REMOVE STEERING WHEEL LOWER COVER RH (See page RS-345)**
4. **REMOVE STEERING PAD (See page RS-346)**
5. **REMOVE STEERING PAD SWITCH**
   (a) w/ Cruise Control System:
   (1) Disconnect the cruise control switch connector.
   (b) Disconnect the connector.
   (c) Remove the screw.
   (d) Disengage the 2 claws and the pin and remove the steering pad switch.



AV



INSPECTION

1. INSPECT STEERING PAD SWITCH

(a) Check the resistance.

(1) Using an ohmmeter, measure the resistance between the terminals.

Standard resistance

Tester Connection	Condition	Specified Condition
12 (AU1) - 10 (EAU)	All switches released	Approximately 100 kΩ
	SEEK+ switch: pushed in	2.5 Ω or less
	SEEK- switch: pushed in	Approximately 329 Ω
	VOL+ switch: pushed in	Approximately 1000 Ω
	VOL-+ switch: pushed in	Approximately 3110 Ω
11 (AU2) - 10 (EAU)	All switches released	Approximately 100 kΩ
	MODE switch: push in	2.5 Ω or less

If the result is not as specified, replace the steering pad switch.

(b) Check the operation.

(1) Apply battery voltage to the terminals and check that the indicator illuminates.

Standard

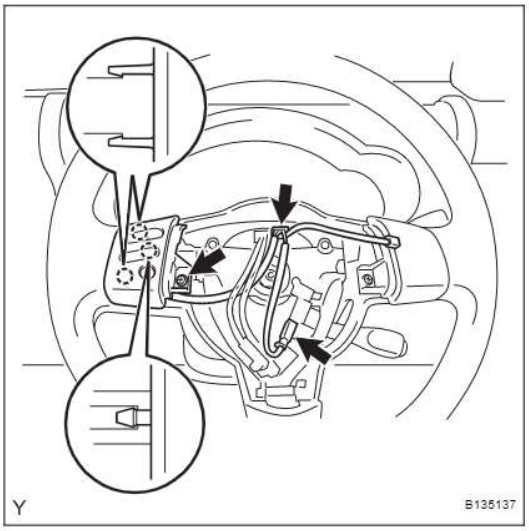
Condition	Standard
Positive battery - Terminal 1 (IL+2) Negative battery - Terminal 10 (EAU)	Illuminates

If the result is not as specified, replace the steering switch.

AV

INSTALLATION

CAUTION:
Some of these service operations affect the SRS airbag system. Read the precautionary notices concerning the SRS airbag system before servicing (See page RS-1).

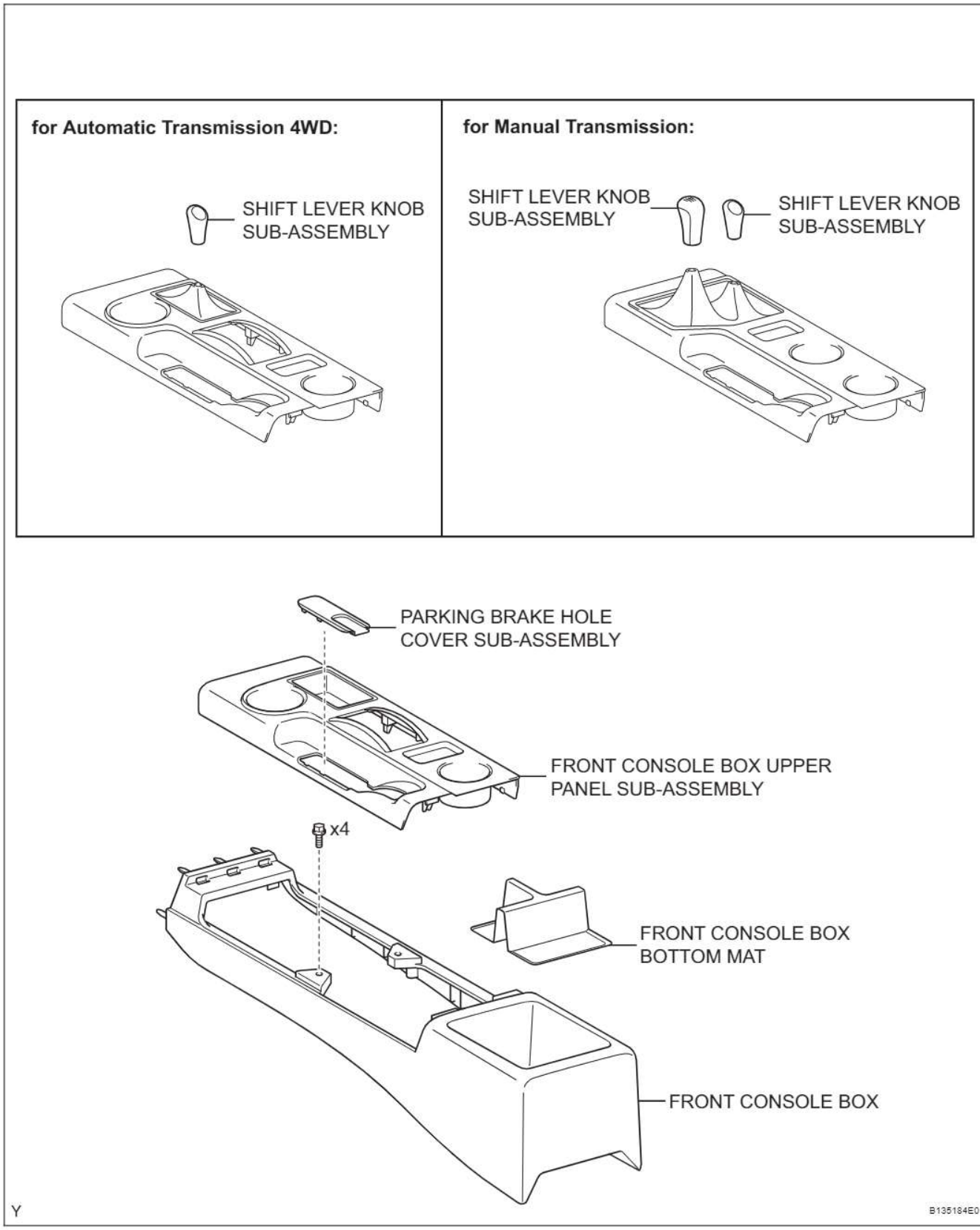


1. **INSTALL STEERING PAD SWITCH**
   (a) Engage the 2 claws and the pin and install the steering pad.
   (b) Tighten the screw.
   Torque: 2.4 N*m (24 kgf*cm, 21 in.*lbf)
   (c) Connect the connector.
   (d) w/ Cruise Control System:
   (1) Connect the cruise control switch connector.
2. **INSTALL STEERING PAD (See page RS-346)**
3. **INSTALL STEERING WHEEL LOWER COVER LH (See page RS-347)**
4. **INSTALL STEERING WHEEL LOWER COVER RH (See page RS-347)**
5. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
   Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)
6. **INSPECT SRS WARNING LIGHT**
   (See page RS-29)

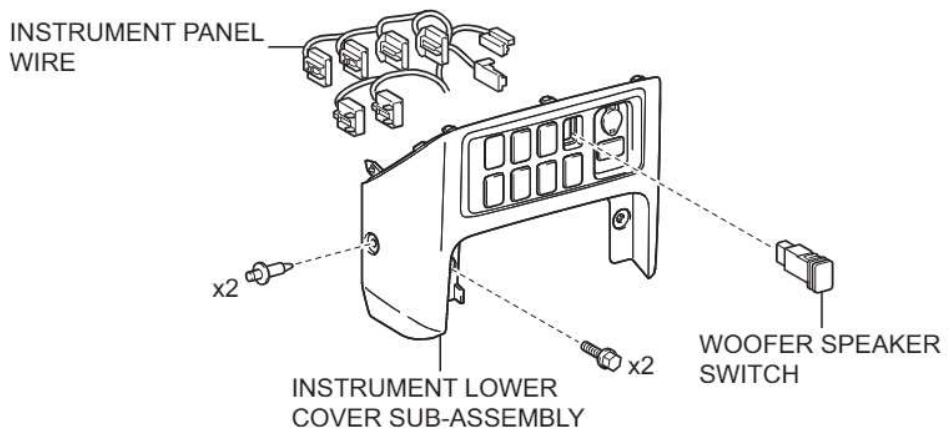
AV

WOOFER SPEAKER SWITCH

COMPONENTS



AV

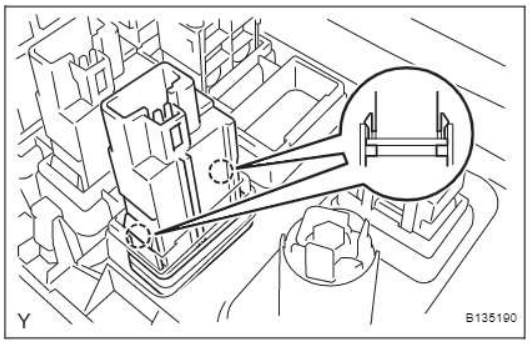


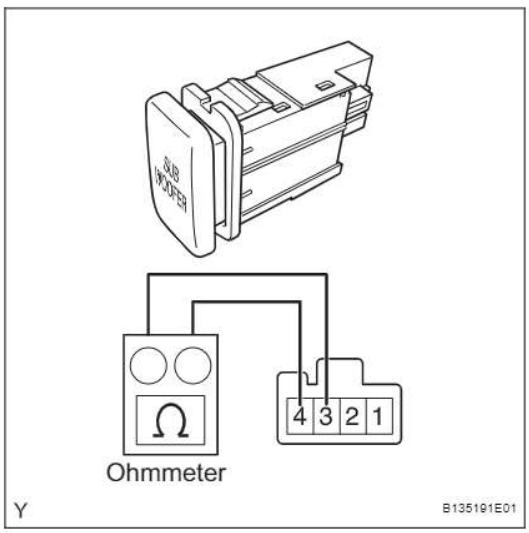
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REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL
2. REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY (for Manual Transmission) (See page IP-11)
3. REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY (for 4WD) (See page IP-11)
4. REMOVE PARKING BRAKE HOLE COVER SUB-ASSEMBLY (See page IP-11)
5. REMOVE FRONT CONSOLE BOX UPPER PANEL SUB-ASSEMBLY (See page IP-12)
6. REMOVE FRONT CONSOLE BOX BOTTOM MAT (See page IP-12)
7. REMOVE FRONT CONSOLE BOX (See page IP-12)
8. REMOVE INSTRUMENT LOWER COVER SUB-ASSEMBLY (See page IP-13)
9. REMOVE WOOFER SPEAKER SWITCH
   (a) Disengage the 2 claws and remove the woofer speaker switch.





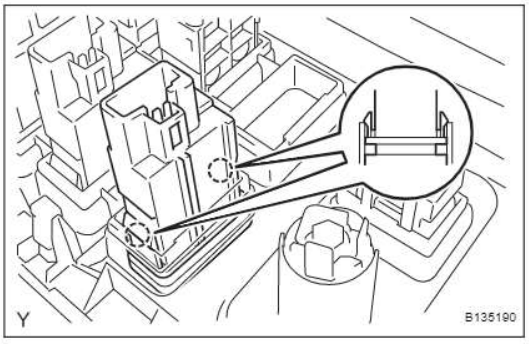
INSPECTION

1. INSPECT WOOFER SPEAKER SWITCH
   (a) Check the resistance.
      (1) Using an ohmmeter, measure the resistance between the terminals.
      Standard resistance

Tester Connection	Condition	Specified Condition
3 (IN) - 4 (OUT)	OFF	10 kΩ or higher
	ON	Below 1 Ω

If the result is not as specified, replace the woofer speaker switch.

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INSTALLATION

1. **INSTALL WOOFER SPEAKER SWITCH**
   (a) Engage the 2 claws and install the woofer speaker switch.
2. **INSTALL INSTRUMENT LOWER COVER SUB-ASSEMBLY (See page IP-30)**
3. **INSTALL FRONT CONSOLE BOX (See page IP-31)**
4. **INSTALL FRONT CONSOLE BOX BOTTOM MAT (See page IP-31)**
5. **INSTALL FRONT CONSOLE BOX UPPER PANEL SUB-ASSEMBLY (See page IP-31)**
6. **INSTALL PARKING BRAKE HOLE COVER SUB-ASSEMBLY (See page IP-32)**
7. **INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (for 4WD) (See page IP-32)**
8. **INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (for Manual Transmission) (See page IP-32)**
9. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
   Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)

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