





GENUINE SATELLITE RADIO KIT

INSTALLATION INSTRUCTIONS

Thank you for purchasing a genuine Mazda accessory.
Before removal and installation, be sure to thoroughly read these instructions.
Please read the contents of this booklet in order to properly install and use the satellite radio kit. Your safety depends on it.
Keep these instructions with your vehicle records for future reference.

WARNING

- There are several  **WARNING** and  **CAUTION** sections in this booklet concerning safety when installing. Always read and follow them in order to prevent injuries, accidents, and possible damage to the vehicle.
 -  **WARNING:** Indicates a situation in which serious injury or death could result if the warning is ignored.
 -  **CAUTION:** Indicates a situation in which bodily injury or damage to the vehicle could result if the caution is ignored.
- If in any doubt, please ask your Mazda dealer to install the accessory in order to prevent errors in installation.
- If you have any questions about the use of the accessory, ask your Mazda dealer for proper advice before using it.
- Mazda and its suppliers are not responsible for injuries, accidents, and damage to persons and property that arise from the failure of the dealer or installer to follow these instructions.
- To ensure safety and reliability of the work, installation, removal and disposal work done by an Authorized Mazda Dealership is recommended.
- Be careful not to lose removed parts, and be sure that they are kept free from scratches, grease or other dirt.

PART NAME: SATELLITE RADIO KIT
PART NUMBER: KF69 V6 029 (Harness Kit P)
VEHICLE: MAZDA CX-5

Note

To the dealer

- Please turn over these instructions to the customer after installation.

To the customer

- Keep these instructions after installation. The instructions may be necessary for installing other optional parts or removal of this accessory.
- Should the vehicle or this accessory be resold, always leave these instructions with it for the next owner.

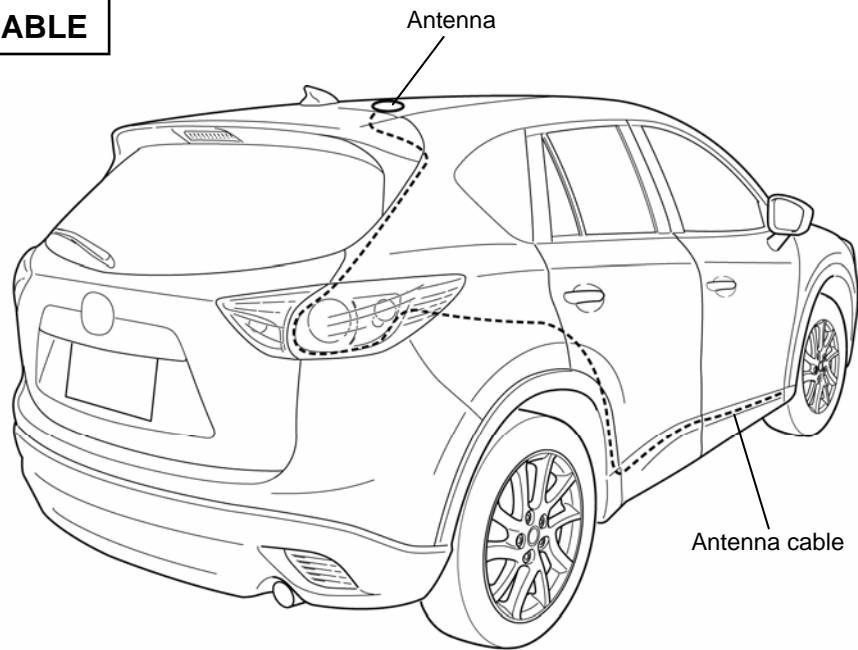
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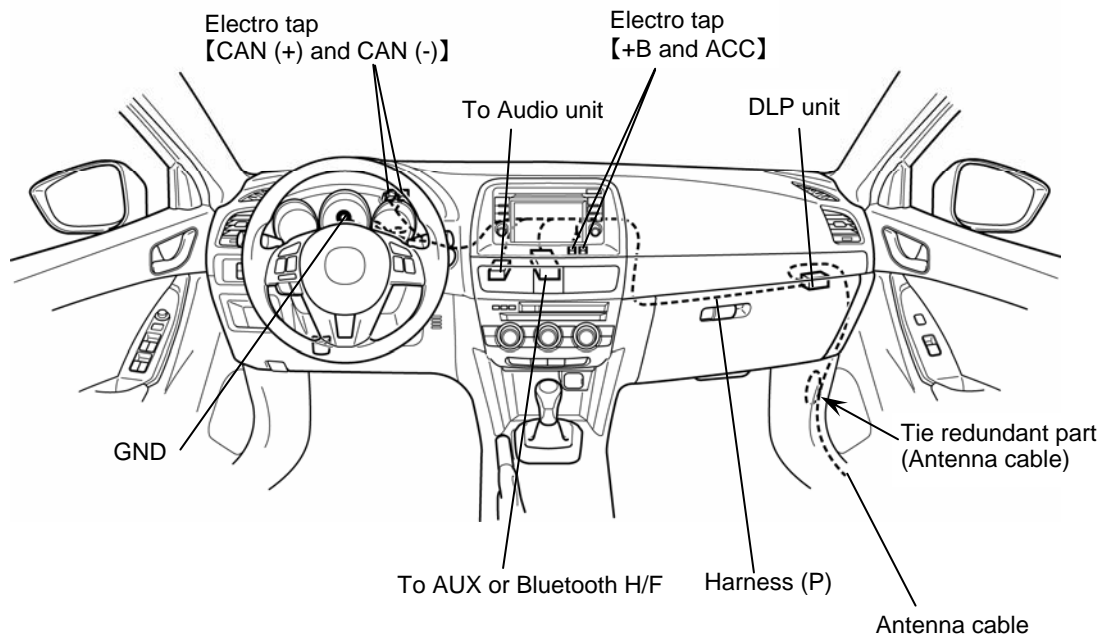
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1 INSTALLATION VIEW

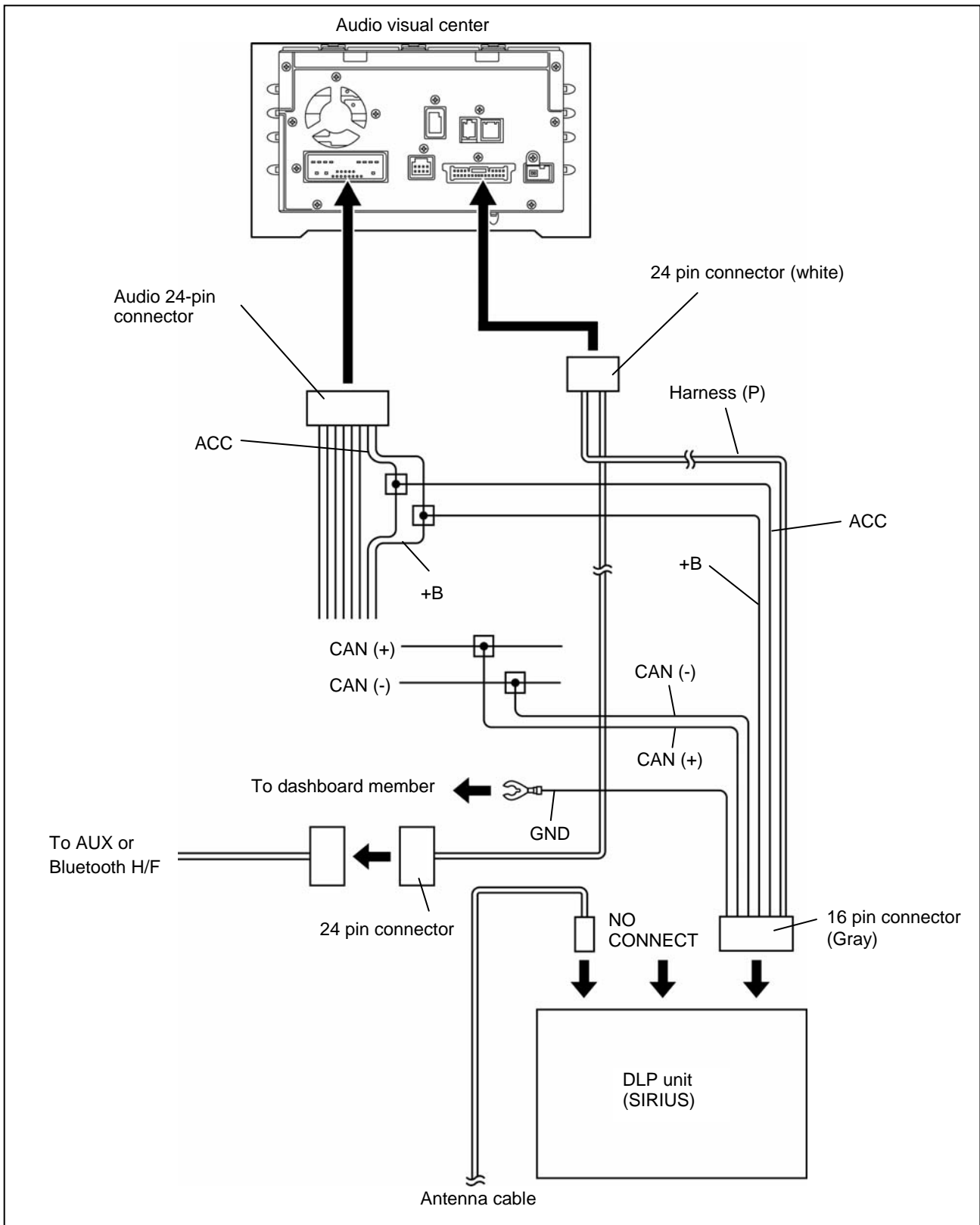
ANTENNA CABLE



HARNESS (P)



2 CONNECTION DIAGRAM



⚠ CAUTION


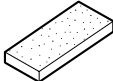
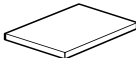









- When connecting a connector, be sure to insert it straight along the guide. The connector terminal may be bent if inserted at an angle.

3 PARTS

Note

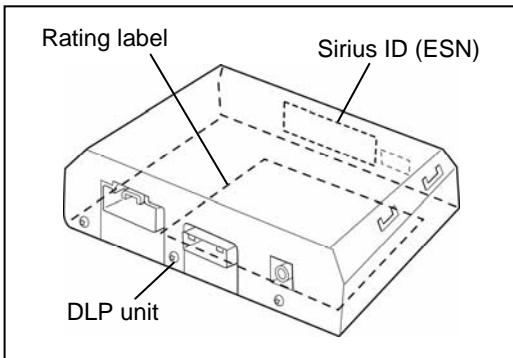
- Verify that the kit includes all the following parts and that they are free of dirt, scratches or damage.
- All hardware required to install is contained in the two Satellite Radio Kits below.

Harness Kit P (KF69 V6 029)

Part	Part name	Qty.	Part	Part name	Qty.	Part	Part name	Qty.
	Harness (P)	1		Pad protector	3		Urethane	2
	Tie wrap (Small)	21		Tie wrap (Large)	5		Clip	11
	Antenna 0000-81-L17	1		Alcohol wipe	2		Nut	2
	Installation instructions	1		Clear tape	1		Waterproof seal	1

DLP unit (KF69 66 DRX)

4 BEFORE INSTALLATION

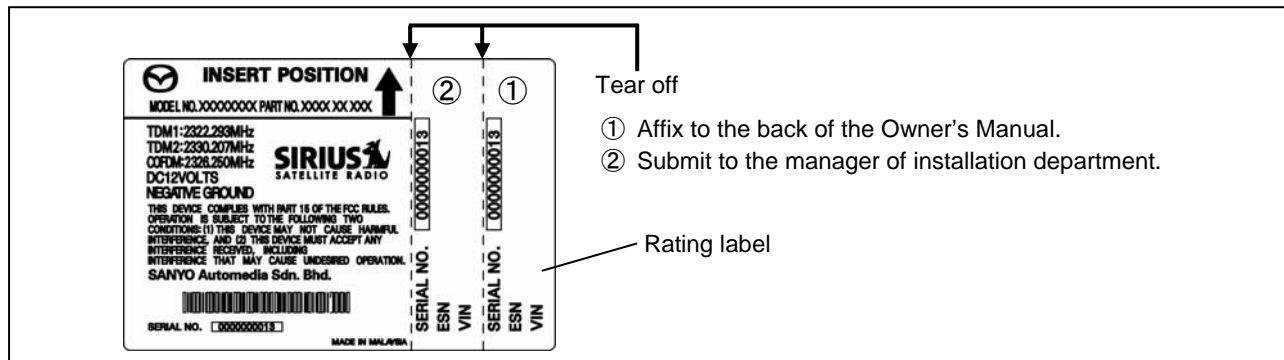


Rating Label Removal

1. Tear off lower part of the rating label on the bottom of DLP unit.
2. If there is nothing written in the Sirius ID (ESN) space of the rating label, write down the 12-digit number printed in the location shown in the figure.
3. Affix one rating label in the last page of the **Owner's Manual**.

Note

- The other rating label is for the dealer (port) records.
- Do not fail to submit the record.

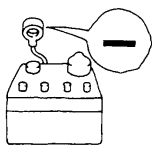


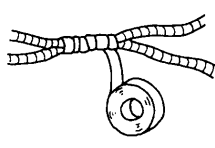


REQUIRED TOOLS


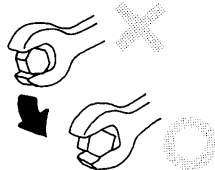
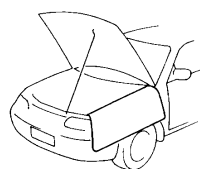
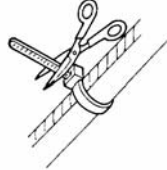
Prepare the following tools or items before installation.

- Electrical vinyl tape ● Mat ● Scissors ● Scale ● Touch-up paint or Zinc primer
- Phillips screwdriver ● Socket driver (8 mm, 10 mm, 14 mm) ● Torx wrench ● Wrench ● File
- ISP alcohol ● Flathead screwdriver

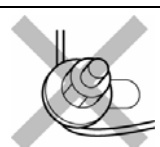
WARNING


<p>When the negative battery cable is connected during operation, it may cause electric shock or other personal injuries. Disconnect the negative battery cable before removal/installation.</p>	<p>When connecting/disconnecting connectors, grasp the connectors, not the wires. Otherwise a short, an accident from poor contact or fire may occur.</p>	<p>Do not pull the harness with excessive force. Doing so can cause a breakage or a short-related accident, as well as an electrical short or fire.</p>	<p>Secure the harness with the band (part included) so it doesn't dangle. If not, it may cause a short, accident, or fire.</p>
			

CAUTION

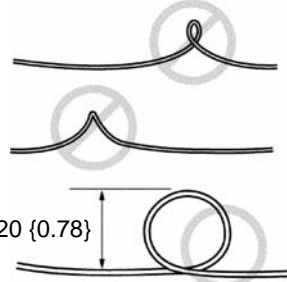
<p>Put the removed parts and the parts in the kit on the protective sheet to prevent scratches.</p>	<p>Using improper tools may cause damage and or broken parts. Use the correct tool for the job.</p>	<p>Be sure to cover the vehicle body with protectors or mats to prevent stains, scratches and damage when removing/installing the vehicle parts.</p>	<p>Excessive length of tie wrap may interfere with other parts and cause damage. Cut unnecessary part up to about 5 mm {0.19 in} from the fixed point.</p>
			

Take care not to trap antenna cable under attachment nuts.




 **WARNING**

- When removing/installing the parts, park the vehicle on level ground and apply the side brake securely. Be sure to turn the ignition switch off, otherwise the vehicle can move, causing personal injury or vehicle damage.



20 {0.78} mm {in}

 **CAUTION**

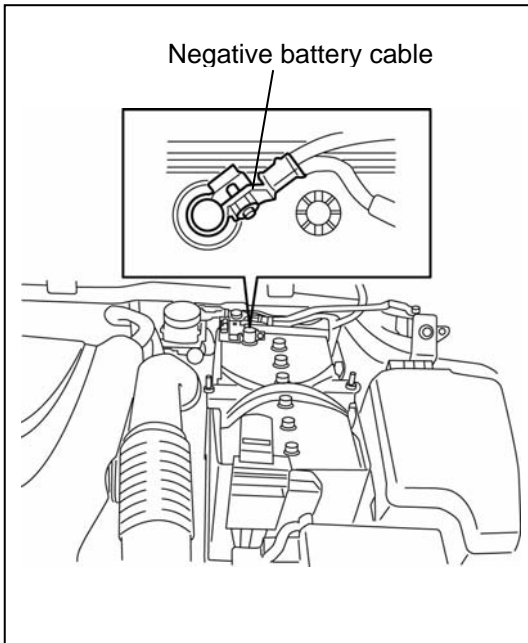
- During the installation of the antenna cable make sure the cable is not pinched, knotted "kinked" or coiled too tightly. It is recommended that a coil of less than 20 mm {0.78 in} be avoided if possible.
- If this wiring procedure is not followed, the performance of the antenna will be affected and could result in increased audio muting.

Note

- When the negative battery cable is removed, the clock, radio, trip meters and other memories will be erased. Before performing work, record the content of the memory.

5

PART REMOVAL



Negative battery cable disconnection

1. Set the selector lever to P range. (AT vehicles only)

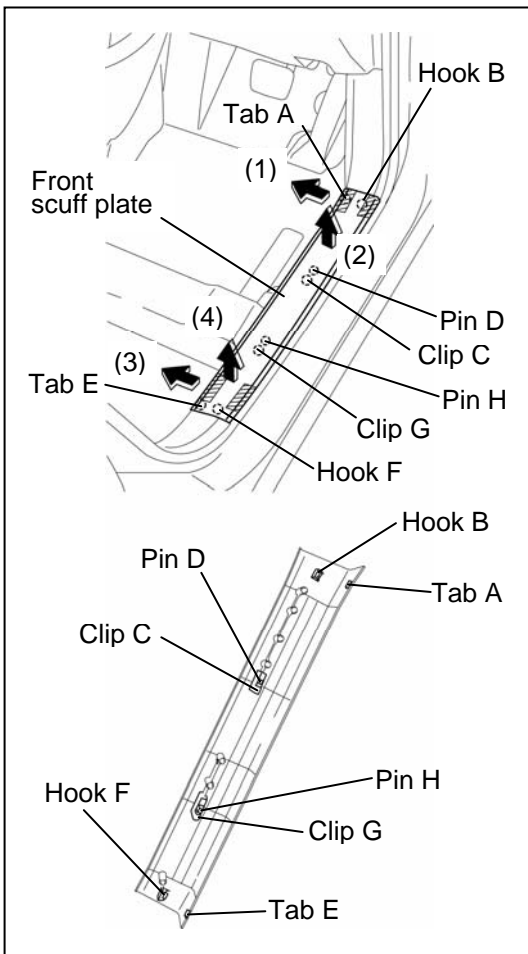
⚠ WARNING

- When removing/installing the parts, park the vehicle on level ground and apply the side brake securely. Be sure to turn the ignition switch off, otherwise the vehicle can move, causing personal injury or vehicle damage.

2. Disconnect the negative battery cable and wrap tape around it to insulate.

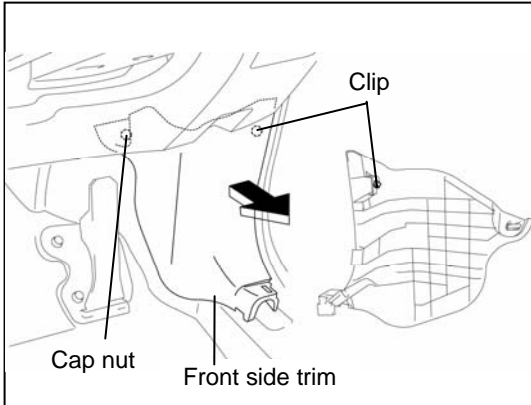
⚠ WARNING

- When the negative battery cable is connected during operation, it may cause electric shock or other personal injuries. Disconnect the negative battery cable before removal/installation.



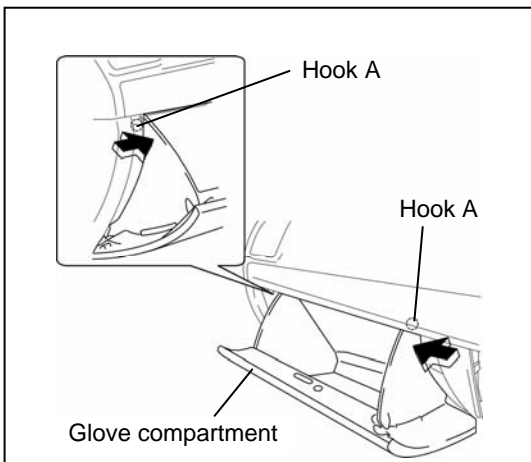
Front scuff plate (passenger's side) removal

1. Take the shaded area shown in the figure, detach tab A while pulling the front scuff plate in the direction of the arrow (1) shown in the figure, then detach the hook B, clip C, and pin D while pulling in the direction of the arrow (2).
2. Take the shaded area shown in the figure, detach tab E while pulling the front scuff plate in the direction of the arrow (3) shown in the figure, then detach the hook F, clip G while pulling in the direction of the arrow (4).



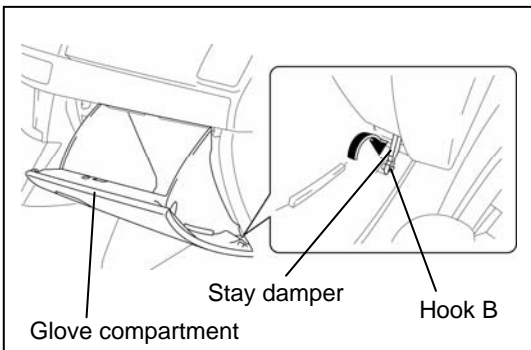
Front side trim (passenger's side) removal

1. Partially peel back the seaming welt.
2. Remove the cap nut.
3. Pull the front side trim in the direction of the arrow shown in the figure and remove it while detaching the clip.



Glove compartment removal

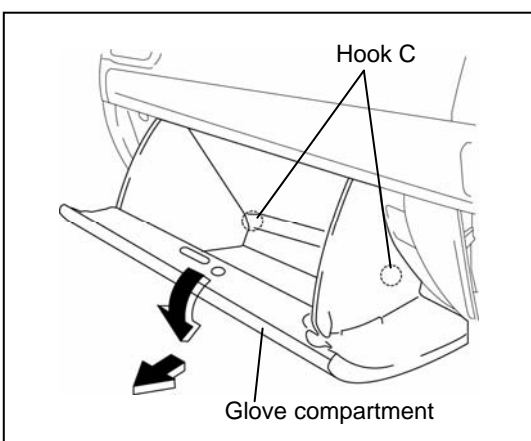
1. Push the glove compartment in the direction of the arrow and remove the hook A.



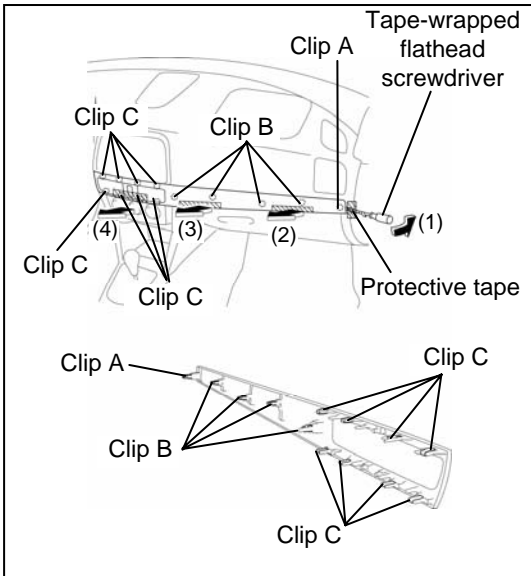
2. Pull the stay damper in the direction of the arrow shown in the figure and remove the hook B.

⚠ CAUTION

- If the glove compartment is closed without being joined to the stay damper, the stay damper may be damaged. Verify that the stay damper is joined to the glove compartment before closing the glove compartment.



3. Pull the glove compartment in the direction of the arrow and remove it while detaching the hook C.

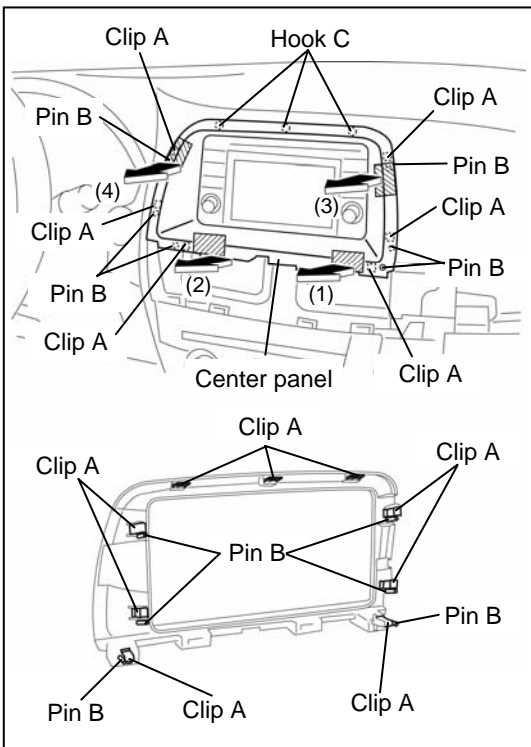


Decoration panel removal

⚠ CAUTION

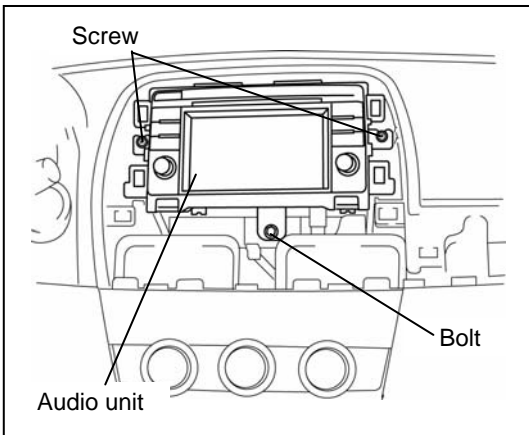
Affix protective tape to the position shown in the figure.

1. Insert a tape-wrapped flathead screwdriver in the position indicated by the arrow (1) in the figure and detach clip A.
2. Take the shaded area shown in the figure, and remove the decoration panel in the direction of the arrow in the order of (2), (3), (4) while detaching the clip B, clip C.
3. Disconnect the hazard switch connector.



Center panel removal

1. Take the shaded area shown in the figure, and pull the center panel in the direction of the arrow in the order of (1), (2), (3) and remove it while detaching the clip A, pin B and hook C.



Audio unit removal

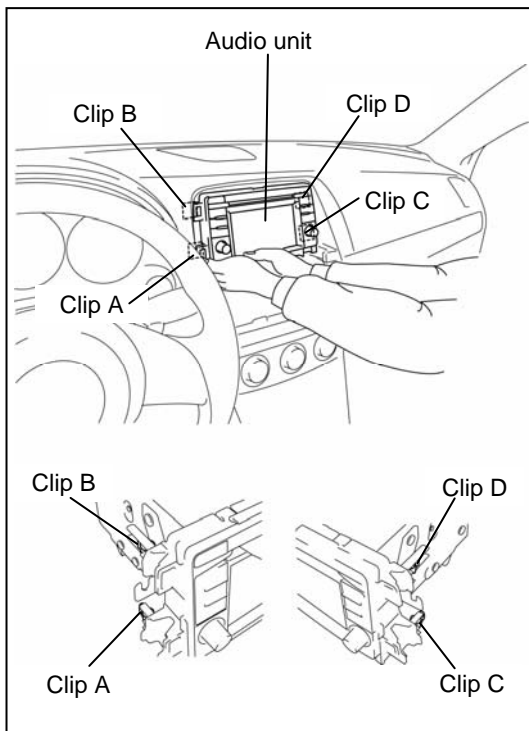
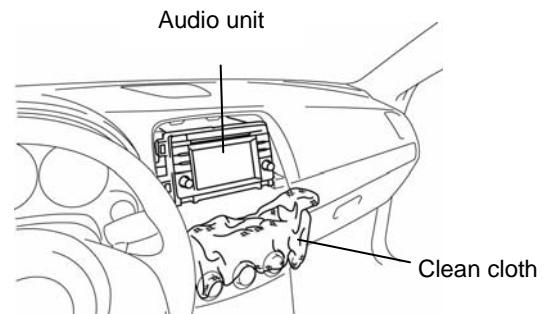
1. Remove the bolt and screws.

Tightening torque Bolt :

6.9–9.8 N·m {71–99 kgf·cm, 62–86 in·lbf }

⚠ CAUTION

Because the audio unit may contact the climate control unit during removing, the audio unit and the climate control unit may be damaged. Place a clean cloth as shown in the figure then perform the procedure.

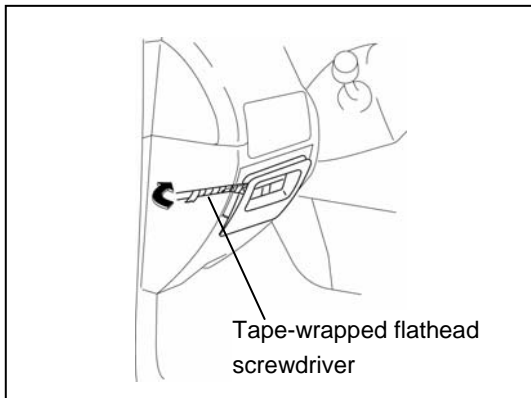
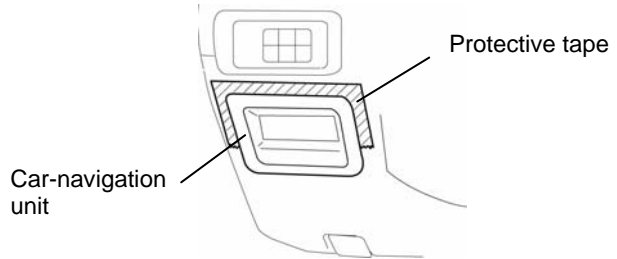
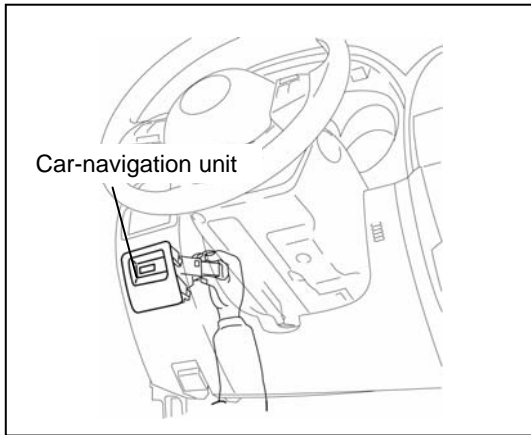


2. Hold the audio unit at the position shown in the figure and pull it outward to detach clips A, B, and C from the instrument panel.
3. Disconnect the connectors.
4. Remove the audio unit.

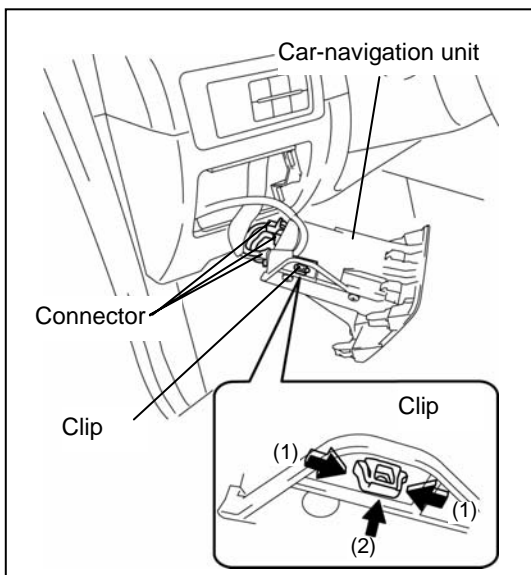
Car-navigation unit removal

⚠ CAUTION

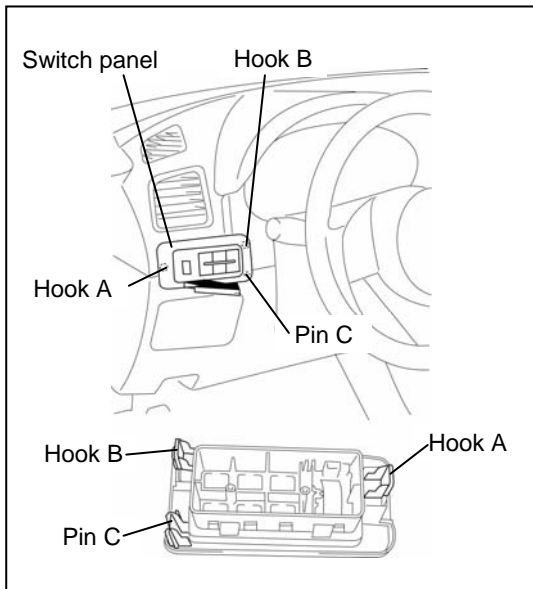
Affix protective tape to the position shown in the figure.



1. Insert your hand from beneath the lower panel and press the car-navigation unit to create a clearance above the car-navigation unit.
2. Insert a tape-wrapped flathead screwdriver into the clearance between the lower panel and the car-navigation unit.
3. Move the tape-wrapped flathead screwdriver in the direction of the arrow shown in the figure to detach the car-navigation clips from the lower panel.
4. Pull out the car-navigation unit and disconnect the connector.

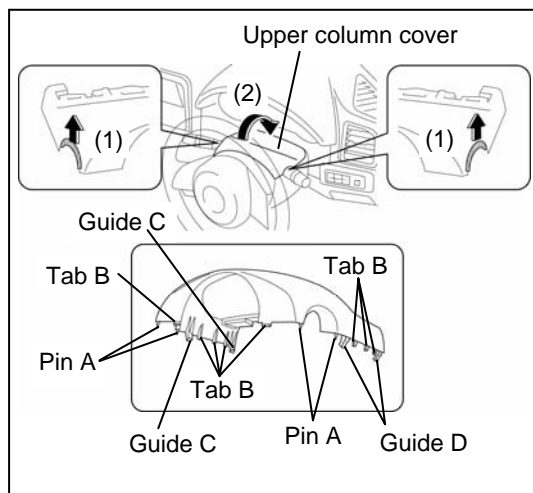


5. While pressing the clip tabs in the direction of arrow (1) shown in the figure, press the clip in the direction of arrow (2) and detach the clip from the car-navigation unit.
6. Remove the clip.
7. Remove the car-navigation unit.



Switch panel removal

1. Insert your hand from the lower side of the lower panel (without car-navigation system) or the area where the car-navigation unit was installed (with car-navigation system), press the switch panel in the direction of the arrow (1) shown in the figure and remove it while detaching hook A and B and pin C.
2. Disconnect the cluster switch connector.
3. Remove the switch panel.

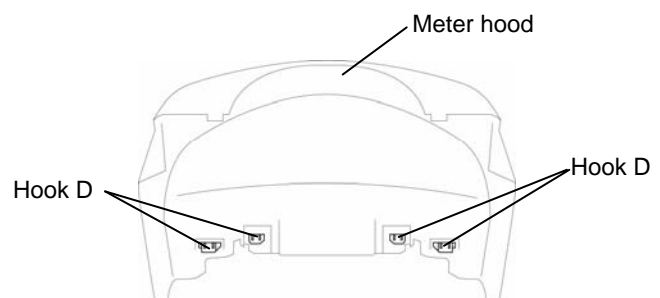


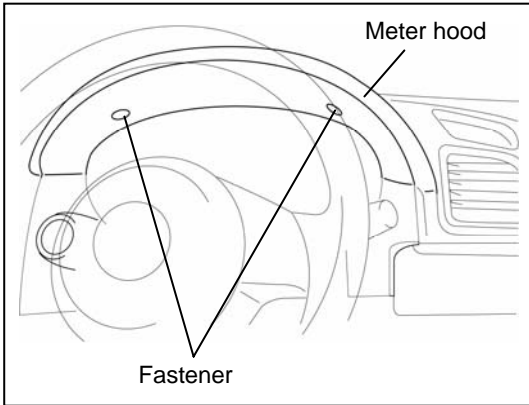
Upper column cover removal

1. Pull down the steering wheel.
2. Press the shaded area shown in the figure using your thumb, and lift the upper column cover in the direction of arrow (1).
3. Pull the upper column cover in the direction of the arrow (2) and remove it while detaching the pin A, tab B and guide C.
4. Remove the hook D from the meter hood.

⚠ CAUTION

If the cover of the meter hood is deformed, it may not return to its original condition. When removing the cover of the meter hood, detach the hooks one by one from the upper column cover.



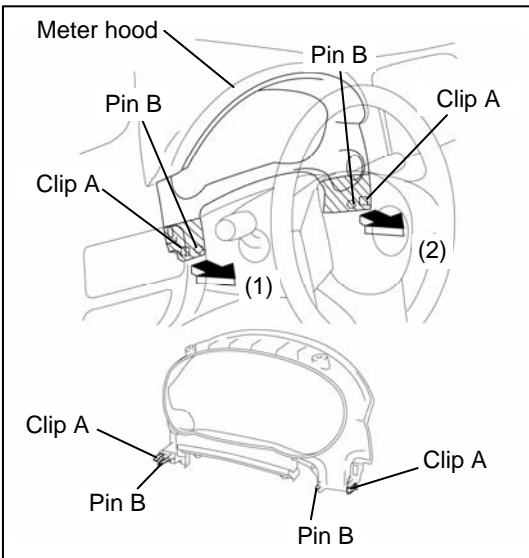


Meter hood removal

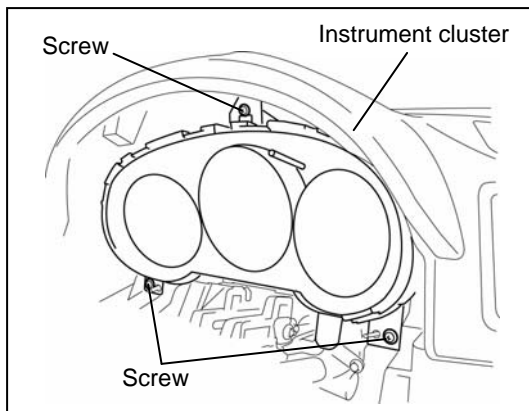
1. Using a phillips screwdriver, remove fastener by rotating the center of fastener A in the direction of the arrow shown in the figure and pulling up the shaft.

Note

When pulling up the shaft of fastener using a phillips screwdriver, the shaft will not be pulled up if it is rotated by pressing the driver. To pull up the shaft of fastener, use the Phillips screwdriver to lightly contact fastener.

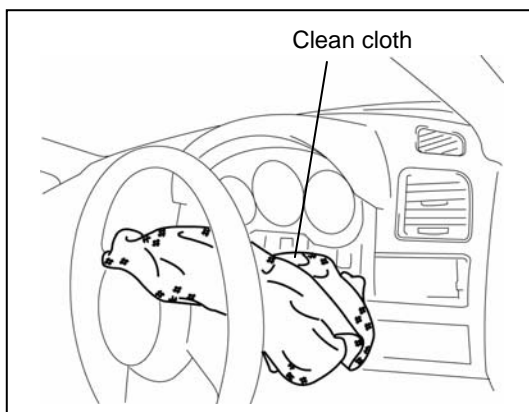


2. Take the shaded area shown in the figure, and remove the meter hood in the direction of the arrow in the order of (1), (2) while detaching the clip A, clip B.
3. Disconnect the start switch connector.
4. Remove the meter food.



Instrument cluster removal

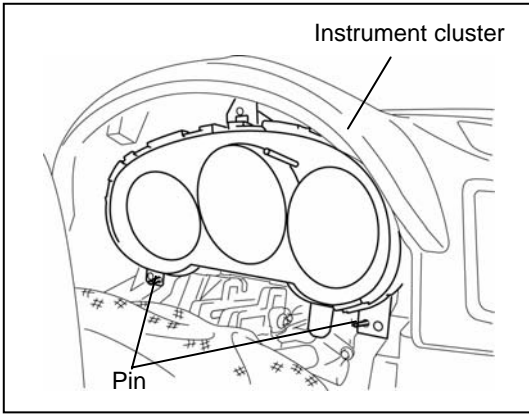
1. Remove the screws.



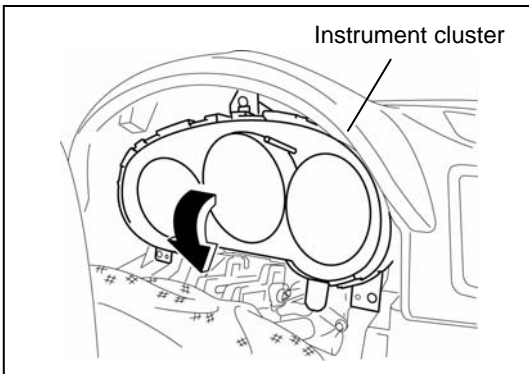
2. Cover the light switch, wiper switch, and SSCM using a clean cloth to prevent scratches.

CAUTION

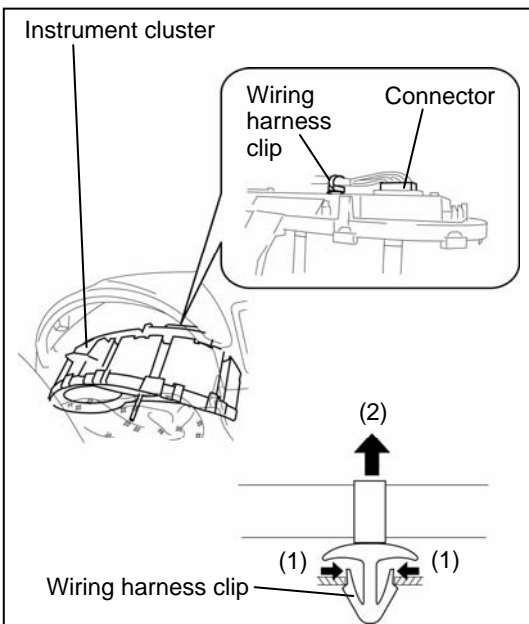
When removing the instrument cluster, the instrument cluster may contact the light switch, wiper switch, or the SSCM and the instrument cluster may be scratched. When removing the instrument cluster, cover the light switch, wiper switch, and SSCM using a rag.



3. Pull the instrument cluster outward to detach it from the instrument panel pins.



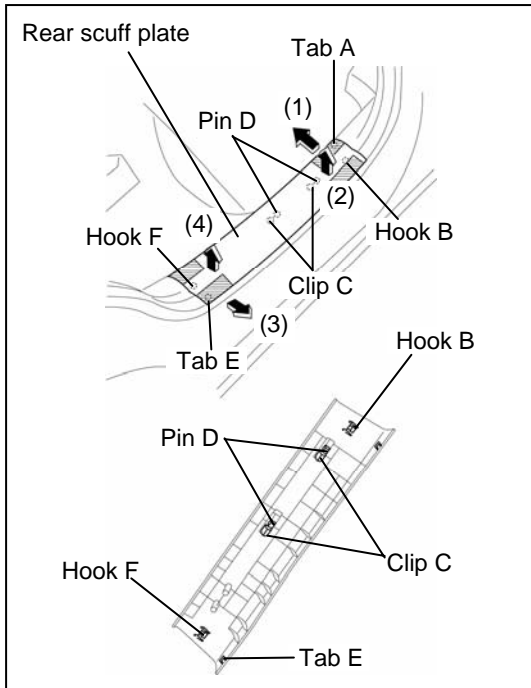
4. Rotate the instrument cluster in the direction of the arrow shown in the figure.



5. While pressing the tabs of the wiring harness clip in the direction of arrows (1) shown in the figure, pull the wiring harness in the direction of arrow (2) to detach the tabs from the instrument cluster.

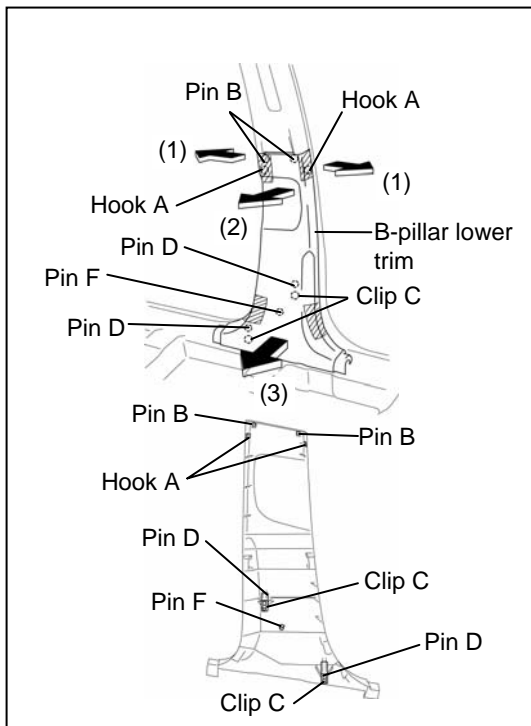
6. Disconnect the connector.

7. Remove the instrument cluster by sliding it between the instrument panel and the steering.



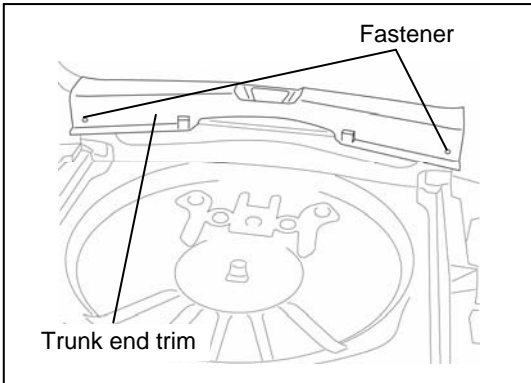
Rear scuff plate removal

1. Take the shaded area shown in the figure, detach tab A while pulling the rear scuff plate in the direction of the arrow (1) shown in the figure, then detach the hook B, clip C, pin D while pulling in the direction of the arrow (2).
2. Take the shaded area shown in the figure, detach tab E while pulling the rear scuff plate in the direction of the arrow (3) shown in the figure, then detach the hook F while pulling in the direction of the arrow (4).



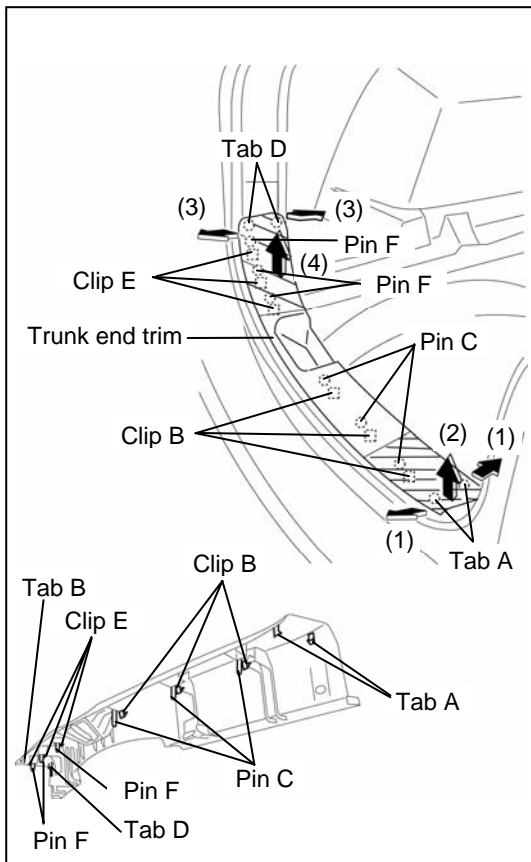
B-pillar lower trim removal

1. Partially peel back the seaming welt.
2. Take the shaded area shown in the figure, and pull the B-pillar lower trim in the direction of the arrow in the order of (1), (2) while detaching the hook A, pin B.
3. Take the shaded area shown in the figure, and pull the B-pillar lower trim in the direction of the arrow (3) while detaching the clip C, pin D, pin F.

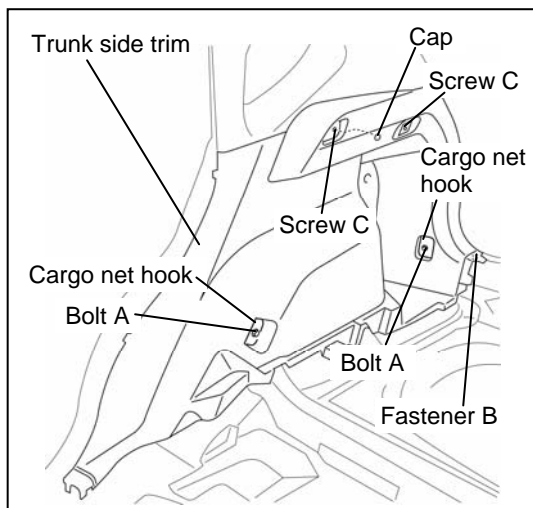


Trunk end trim removal

1. Remove the sub trunk assembly.
2. Partially peel back the seaming welt.
3. Remove the fastener.



4. Take the shaded area shown in the figure, detach tab A while pulling the trunk end trim in the direction of the arrow (1) shown in the figure, then detach the clip B, pin C while pulling in the direction of the arrow (2).
5. Take the shaded area shown in the figure, detach tab D while pulling the trunk end trim in the direction of the arrow (3) shown in the figure, then detach the clip E, pin F while pulling in the direction of the arrow (4).

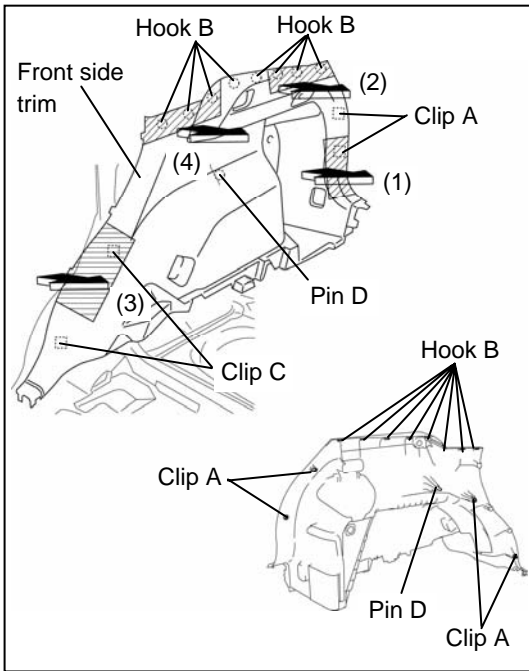


Trunk side trim removal

1. Remove the bolts A, then remove the cargo net hook.
2. Remove the bolt A and fasteners A.

Tightening torque Bolt :
0.9–1.3 N·m {9.2–13 kgf·cm, 8 – 11 in·lbf }

3. Remove the cap, then remove the screw C.

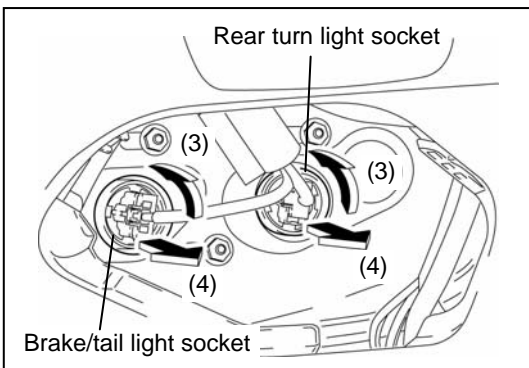


4. Hold D-pillar trim with your hands and pull the trunk side trim in the direction of the arrow (1), (2), (3), (4) and remove clips A, hooks B and pins B.
5. Disconnect the connector. (cargo room light connector, rear accessory socket connector)

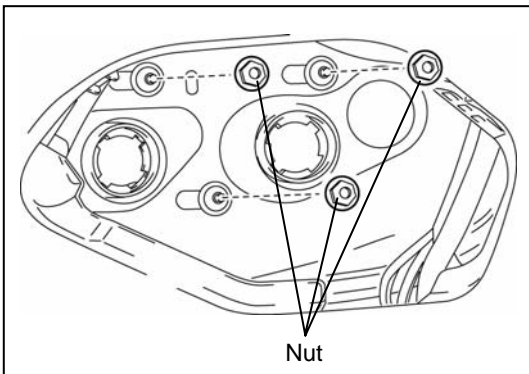
Rear combination light removal

Note

Although the driver's side is shown in the figure, remove the passenger's side rear combination light.



1. Remove the service hole cover.
2. Rotate the socket in the direction of the arrow (3) shown in the figure and remove it from the rear combination light in the direction of the arrow (4) shown in the figure.

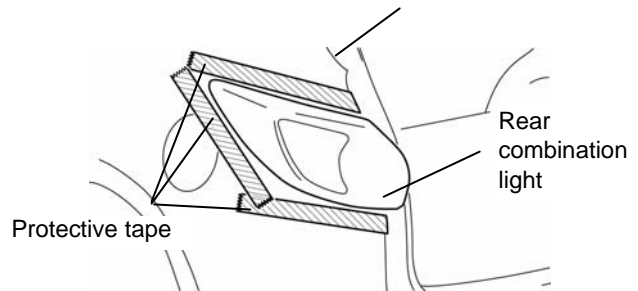


3. Remove the nuts.
Tightening torque Nut :
4.1–6.1 N·m {42–62 kgf·cm, 37 – 53 in·lbf }

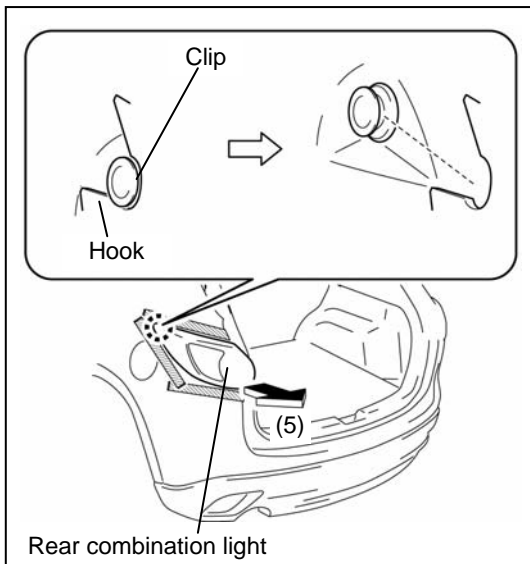
4. To prevent scratches or damage, affix protective tape to the position shown in the figure.

⚠ CAUTION

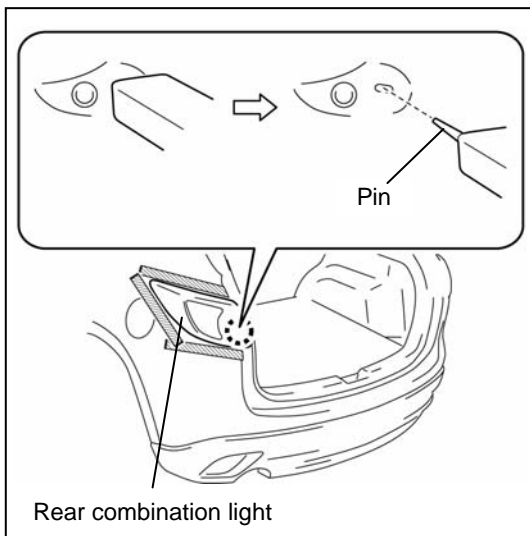
When the rear combination light is removed from the body, perform the procedure after affixing protective tape to the body. Otherwise, the body could interfere with the rear combination light and cause scratching or damage to the body.



5. Pull the rear combination light in the direction of the arrow (5) shown in the figure and remove the rear combination light hook from the clip.

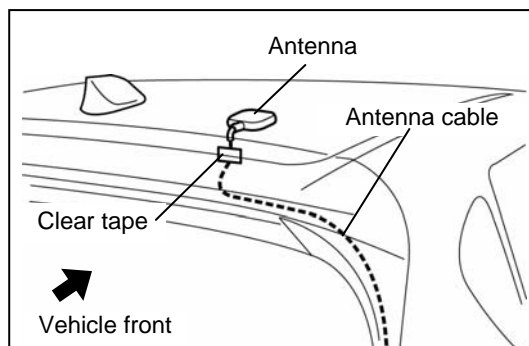
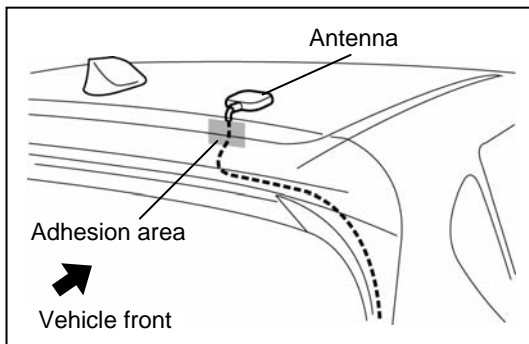
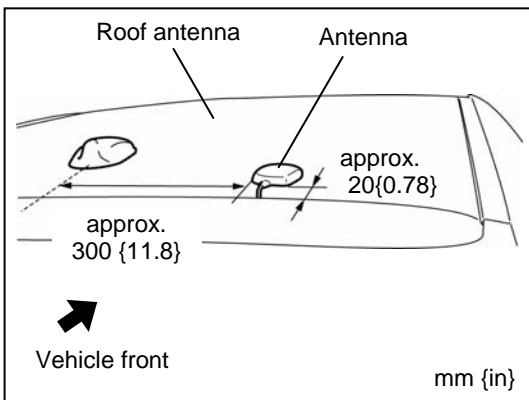
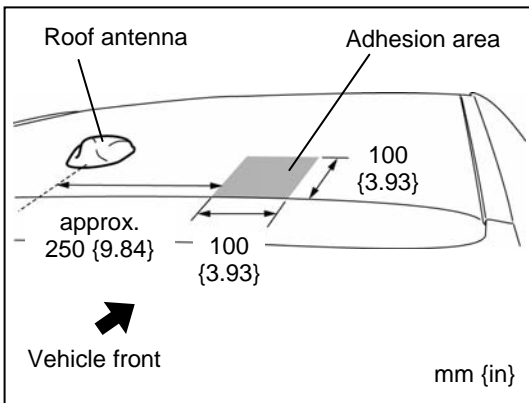


6. Pull out the rear combination light pin.
7. Remove the rear combination light.



6

INSTALLING ANTENNA



1. Clean the adhesion area on the roof with isopropyl alcohol (IPA).

⚠ CAUTION

- To ensure proper affixing, be sure to degrease the area where the double-sided adhesive tape is affixed.

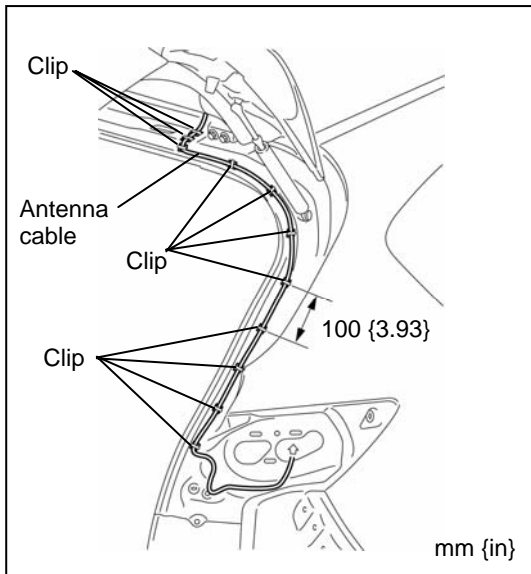
2. Install the antenna in the position shown in the figure.

3. Clean the adhesion area where the clear tape is affixed with isopropyl alcohol (IPA).

4. Affix a clear tape to the body panel shown in the figure.

⚠ CAUTION

- The antenna cable could interfere with the liftgate resulting in the paint peeling off. After affixing clear tape, verify that the antenna cable does not interfere with the liftgate by opening/closing the liftgate.



5. Clean the adhesion area where the clips attached with isopropyl alcohol (IPA).

⚠ CAUTION

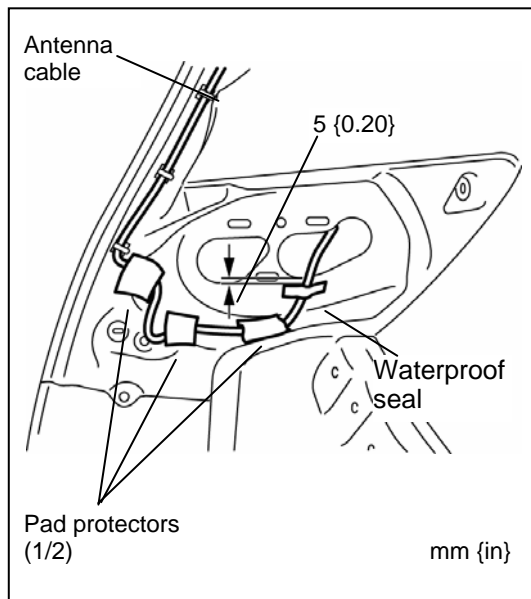
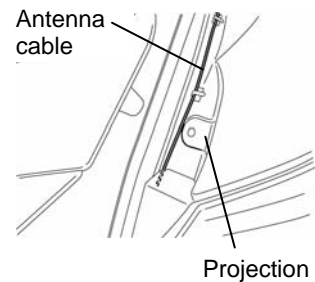
- To ensure proper affixing, be sure to degrease the area where the clips are attached.

6. Attach the clips to the vehicle in the flat areas shown in the figure at 100mm {3.93in} intervals.

7. Install the antenna cable to the clips.

⚠ CAUTION

- Route the antenna cable along the edges so that the antenna cable and clip do not contact the stay damper and body panel projection.
- After routing the antenna cable, verify that the antenna cable does not interfere with the liftgate.



8. Clear the adhesion area where the pad protectors and waterproof seal are affixed with isopropyl alcohol (IPA).

⚠ CAUTION

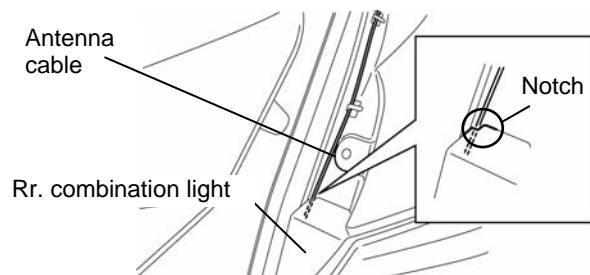
- To ensure proper affixing, be sure to degrease the area where the pad protectors and waterproof seal are affixed.

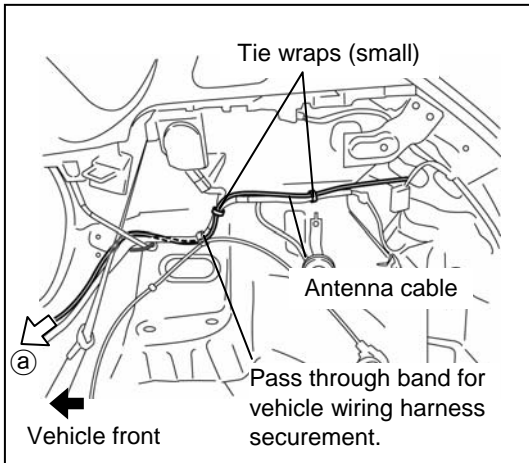
9. Affix the antenna cable to the body panel using pad protectors (1/2).

10. Affix the antenna cable to the body panel using a waterproof seal.

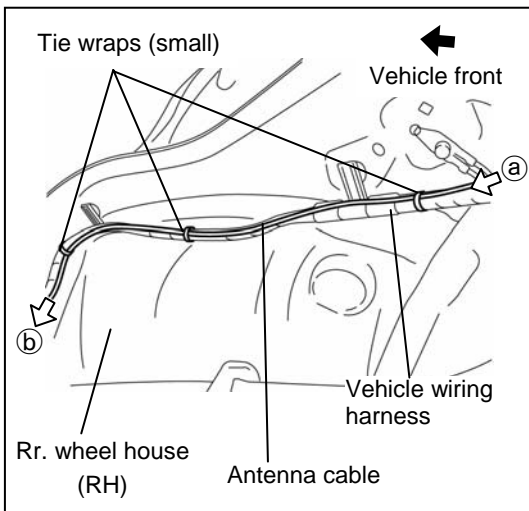
⚠ CAUTION

- To prevent water penetration, affix a waterproof seal 5 mm away from the lip.
- When installing the Rr. combination light, route the antenna cable along the edges so that the antenna cable passes through the Rr. combination light notch.

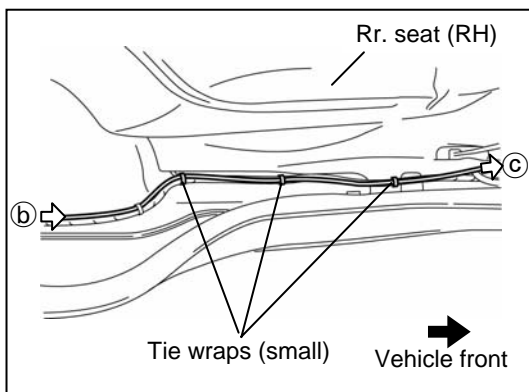




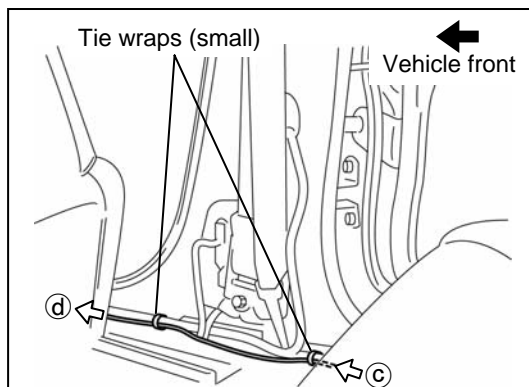
11. Secure the antenna cable to the vehicle wiring harness with tie wraps (small).



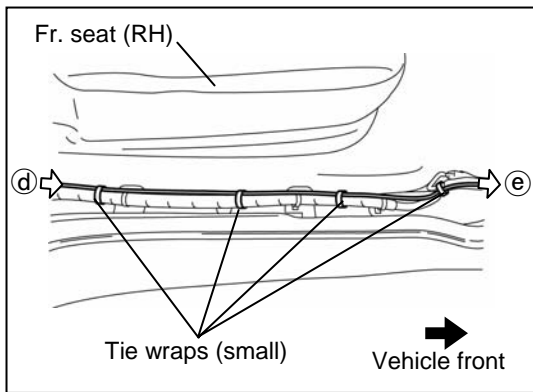
12. Secure the antenna cable to the vehicle wiring harness with tie wraps (small).



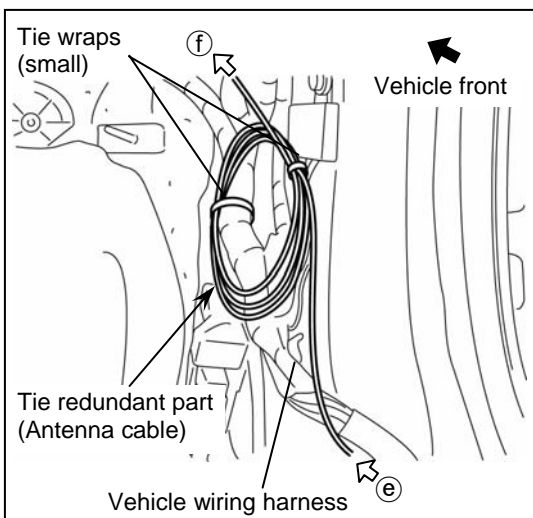
13. Secure the antenna cable to the vehicle wiring harness with tie wraps (small).



14. Secure the antenna cable to the vehicle wiring harness with tie wraps (small).

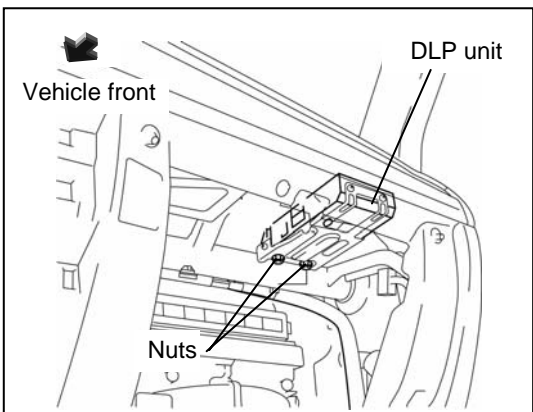


15. Secure the antenna cable to the vehicle wiring harness with tie wraps (small).



16. Bundle the redundant part of the antenna cable using a tie wrap (small).

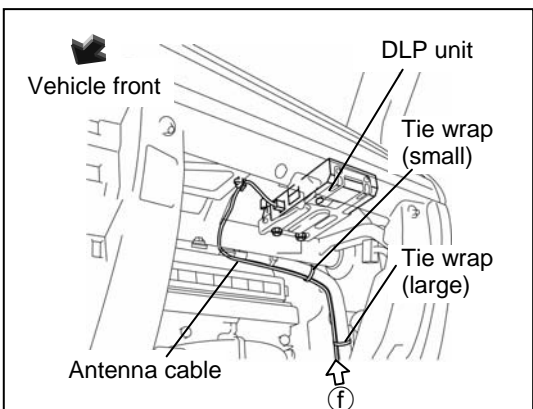
17. Secure the antenna cable and the redundant part to the vehicle wiring harness using a tie wrap (small).



18. Install the DLP unit.

• **Nut tightening torque:**

6.9 – 9.8 N·m {71.0 – 99.0 kgf·cm, 61.0 – 86.0 in·lbf }



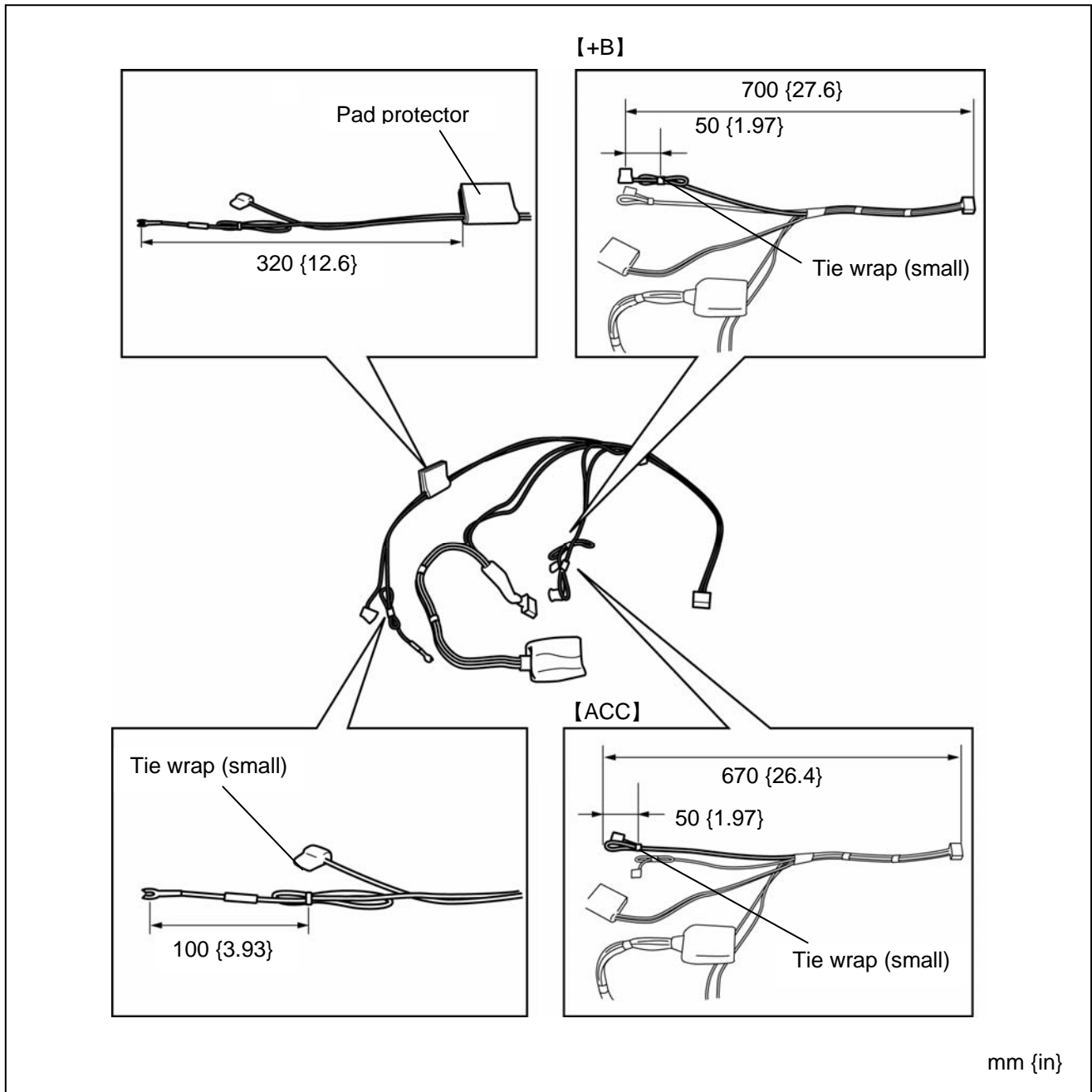
19. Secure the antenna cable to the vehicle wiring harness with a tie wrap (small) and a tie wrap (large)

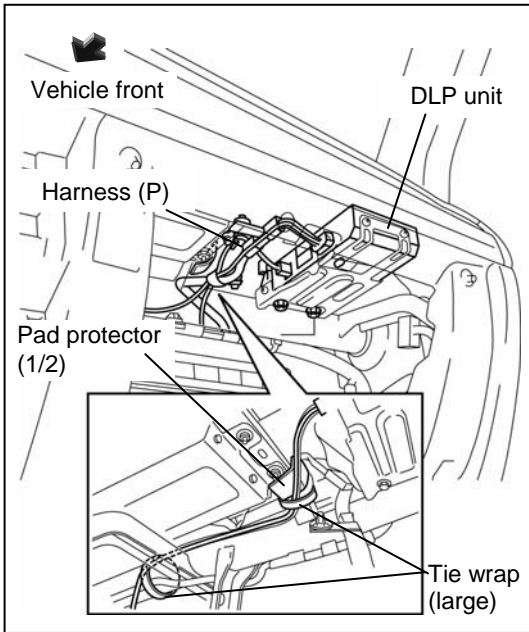
20. Connect the antenna cable to the DLP unit.

7 INSTALLING THE HARNESS

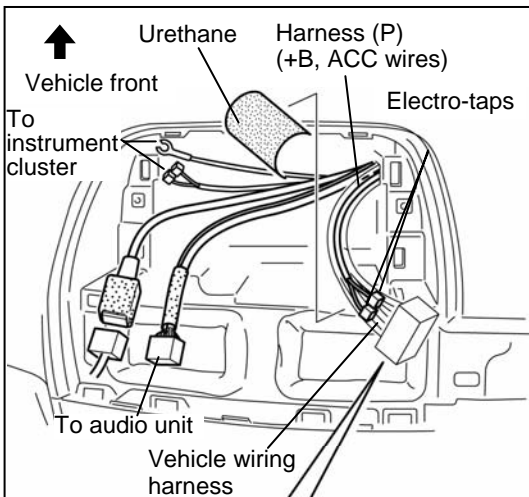
Preparation for harness (P)

Prepare the wiring harnesses referring to the figure below.





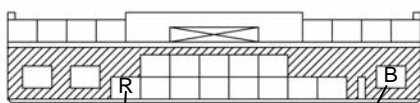
1. Connect the harness (P) to the DLP unit.
2. Affix a pad protector (1/2) to the dashboard member.
3. Secure the harness (P) to the dashboard member using tie wraps (large).



4. Branch connect the +B wire to the audio 24-pin connector (terminal B) using the electro tap.
5. Branch connect the ACC wire to the audio 24-pin connector (terminal R) using the electro tap.

Audio 24 pin connector (Vehicle wire)	Kit wire
Terminal B	+B
Terminal R	ACC

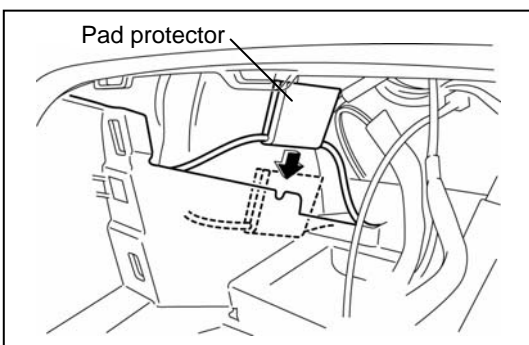
**[Audio 24 pin connector]
(View from wire side of connector)**



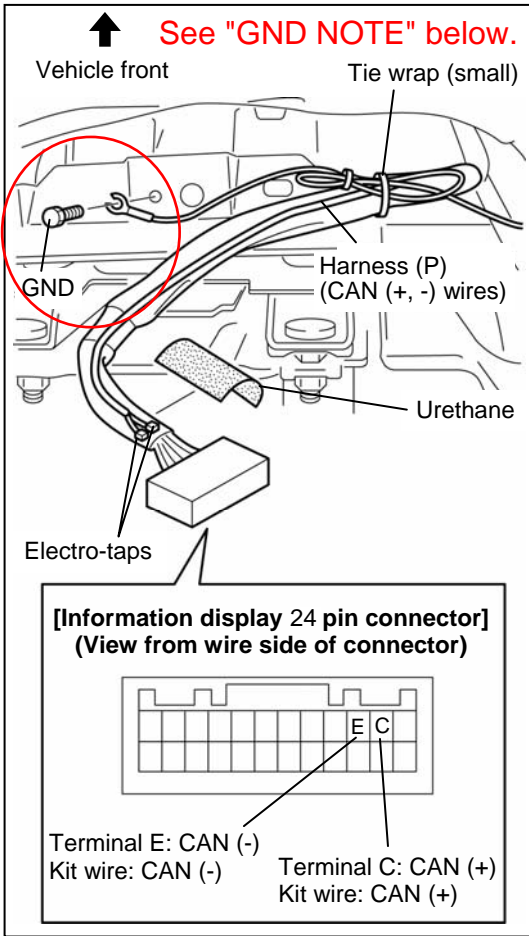
Terminal R: ACC
Kit wire: ACC

Terminal B: +B
Kit wire: +B

6. Wrap the electro taps and vehicle wiring harness together using urethane.



7. Pass the wiring harness (P) GND and CAN (+,-) in the direction of the instrument cluster and insert the pad protector into the gap of the audio unit on the driver's side.



8. Branch connect the CAN (+) wires to the instrument cluster 24-pin connector (terminal C) using the electro taps.
9. Branch connect the CAN (-) wires to the instrument cluster 24-pin connector (terminal E) using the electro taps.

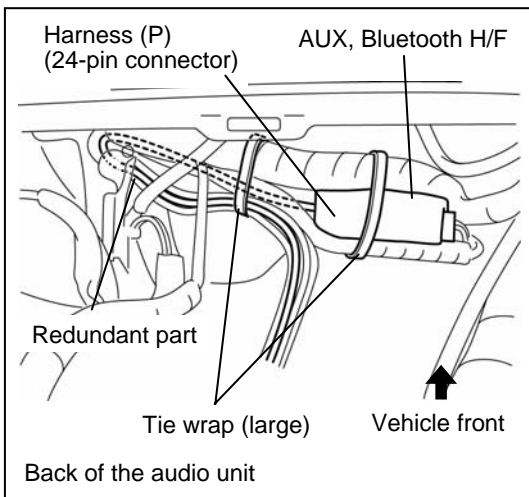
Instrument cluster 24- pin connector (Vehicle wire)	Kit wire
Terminal C	CAN (+)
Terminal E	CAN (-)

10. Wrap the electro taps and vehicle wiring harness together using urethane.
11. Tighten the harness (P) GND using the vehicle bolt.

⚠ CAUTION

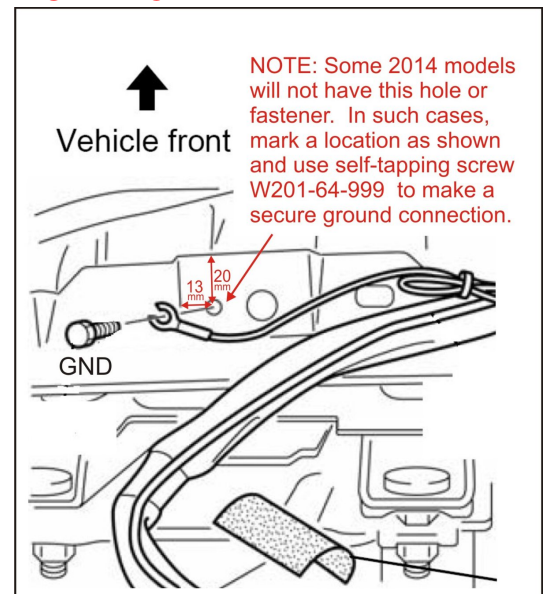
- Make sure the ground eyelet contacts the steel bracket. See "GND NOTE" below.

12. Bundle the harness (P) GND wire redundant part to the vehicle wiring harness using a tie wrap (small).



13. Connect the harness (P) 24-pin connector to the AUX, Bluetooth H/F connector.
14. Bundle the harness (P) redundant part, and affix the harness (P) 24-pin connector to the vehicle wiring harness using tie wraps (large).

"GND NOTE"



8

REINSTALLATION OF VEHICLE PARTS

- Install in the reverse order of “5. Part removal”.

CAUTION

- After installing the vehicle parts, check for dirt. Clean any dirty parts.

- Perform the Inspection indicated on the last page of these installation instructions.

CAUTION

【Power window auto function】

- If the battery is disconnected, the automatic full open/close feature of the power window is disabled. This feature can be recovered by the following procedure.
 1. Turn the ignition switch to the ON position.
 2. Hold down the power window switch until the window is fully open.
 3. Pull up the power window switch to close the window and continue to pull it up for about two seconds after it is fully closed.
 4. If the feature does not function even after the ignition switch is turned off, contact an Authorized Mazda Dealer.

【TPMS system】

- If the battery is disconnected, the TPMS (Tire Pressure Monitoring System) initial setting is reset and the system may not operate normally. This feature can be recovered by the following procedure.
 1. Adjust the tire pressure (verify tire pressure using label on body side with driver's door open).
 2. Turn the ignition switch to the ON position.
 3. Press the TPMS (SET) switch (long-press it until TPMS warning light in meter flashes two times and a beep sounds one time).
 4. Switch the ignition off.
 5. If the TPMS warning light illuminates or flashes even though the above procedure has been performed, contact an Authorized Mazda Dealer.

9

INSPECTION

- Inspect the installed / reinstalled parts for the following items.
- Inspection parts differ depending on the vehicle.

Inspection Parts	Inspection Items (○)			
	Clearance/Fit	Scratches/ Dirt/ Harness interference	Installation/ Tightening/ Engagement	Operation check
Rear combination light (passenger's side)	○	○	○	○
Trunk side trim (passenger's side)	○	○	○	
Trunk end trim	○	○	○	
B-pillar lower trim (passenger's side)	○	○	○	
Rear scuff plate (passenger's side)	○	○	○	
Instrumetn cluster	○	○	○	○
Meter hood	○	○	○	
Upper column cover	○	○	○	
Switch panel	○	○	○	
Car-navigation unit	○	○	○	○
Audio unit	○	○	○	○*1
Center panel	○	○	○	
Decoration panel	○	○	○	
Glove compartment	○	○	○	
Front side trim (passenger's side)	○	○	○	
Front scuff plate (passenger's side)	○	○	○	
Battery cable	○	○	○	

○: Applicable

*1: Refer to the Owner's Manual and the SATELLITE RADIO instruction manual, and verify that the system operates correctly.

Ex.: Turn the power ON, increase the volume, and press the SAT button.

- Direct access channel 184 is a test channel provided by Sirius.
Press the SAT button on the radio, and if properly installed you will receive a signal from the Sirius broadcast.
Note: Sirius broadcasts can only be received in an open area, enclosed spaces such as garages or work buildings block the satellite reception.

To troubleshoot problems, go to the following web page and select "Troubleshooting" in the Satellite Radio section: https://portal.mazdausa.com/dealershome/service_parts/accy_website

Date _____, _____, _____				
Vehicle. _____				
VIN. _____				
Approved		Checked		Person in charge

The term of validity for this sheet: 3 years