





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: **0000 81 N07 (Harness Kit R)**
VEHICLE: **Mazda CX-9**

NOTE

To the dealer

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

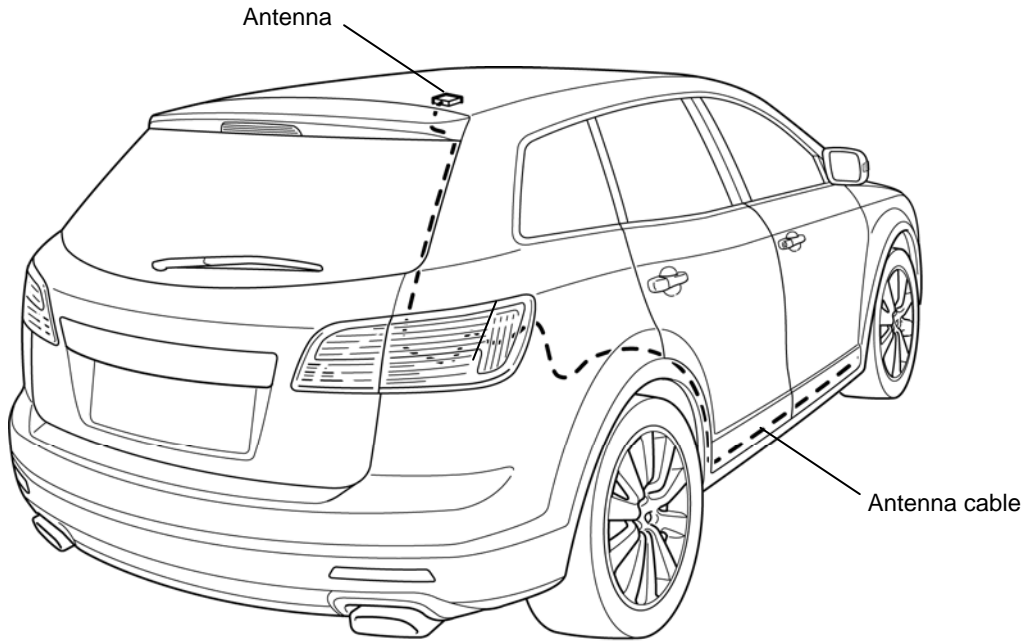
To the customer

- 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.

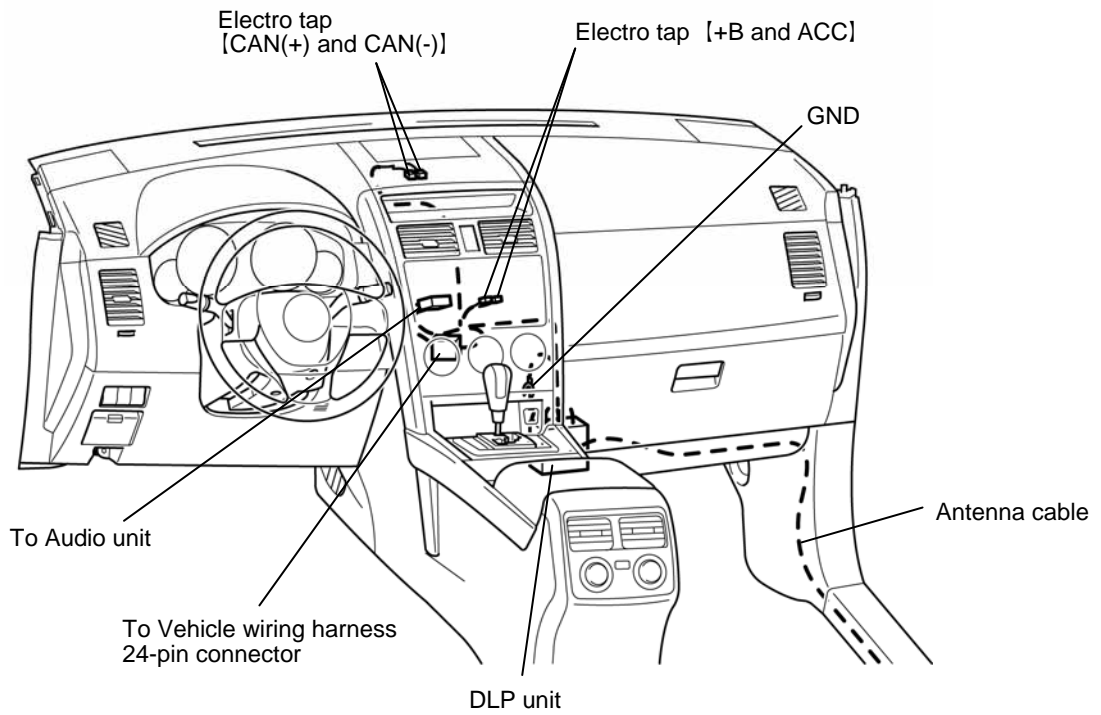
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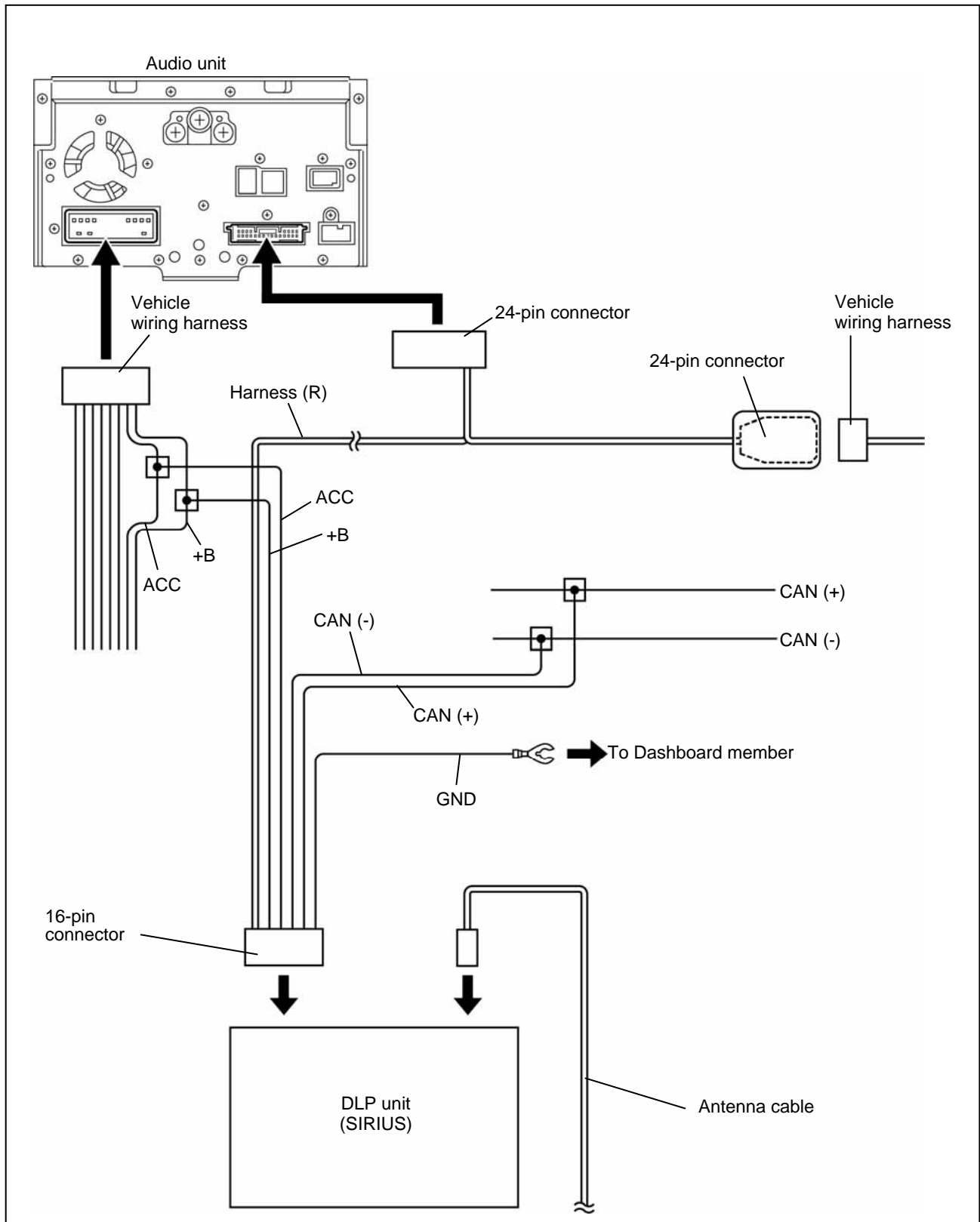
ANTENNA CABLE



HARNESS (R)



2 CONNECTION DIAGRAM



⚠ CAUTION


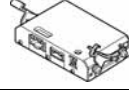


- When connecting a connector, be sure to insert it straight along the guide. The connector terminal may be bent if inserted at an angle.

3 PARTS



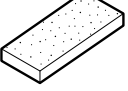
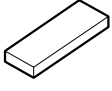


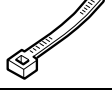




Note

- Verify that the kit includes all of 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.

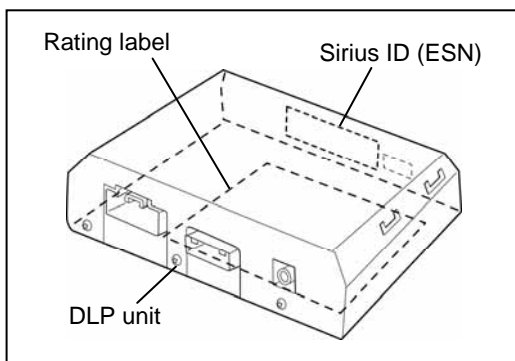
Main Kit (0000 81 Z40)

Part	Part name	Qty.	Part	Part name	Qty.	Part	Part name	Qty.
	Antenna 0000-81-L17	1		DLP unit	1		Alcohol wipe	1
	Nut	2						

Harness Kit R (0000 81 N07)

Part	Part name	Qty.	Part	Part name	Qty.	Part	Part name	Qty.
	Harness (R)	1		Pad protector	12		Cover with adhesive	1
	Double-sided adhesive tape	3		Urethane	4		Pad protector (For antenna)	1
	Tie wrap (Large)	17		Tie wrap (Small)	12		Butyl tape	1
	Clip	3		Installation instructions	1			

4 BEFORE INSTALLATION

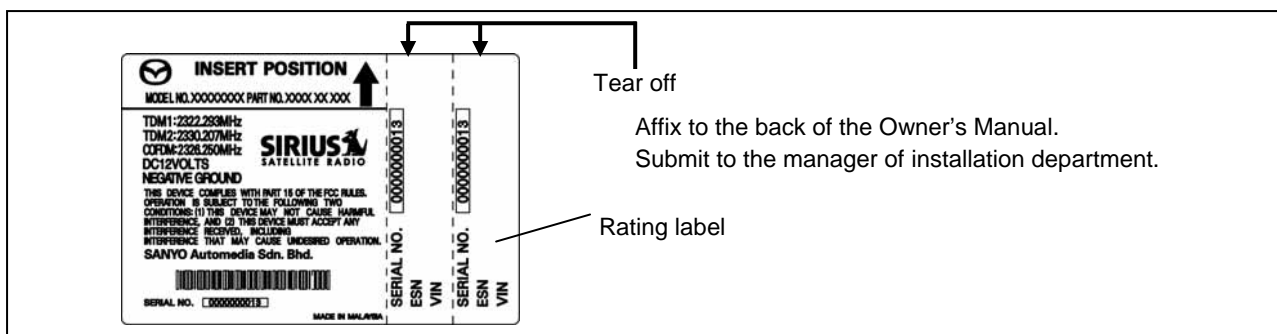


Rating Label Removal

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.

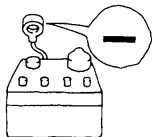
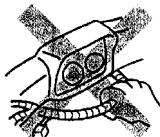

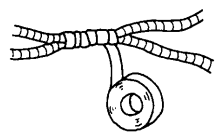


REQUIRED TOOLS

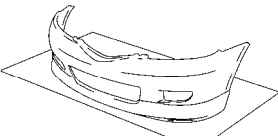
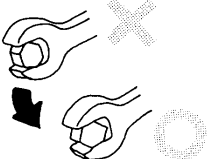
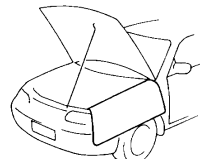
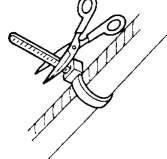
Prepare the following tools or items before installation.


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
 Fiber stick ISP alcohol

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>
			

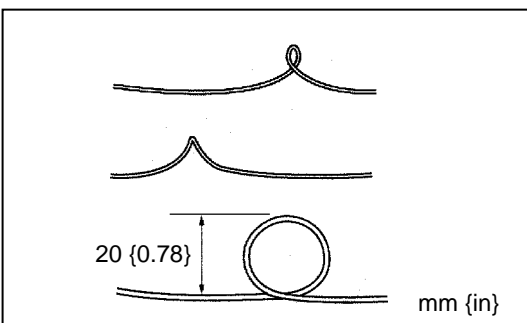
<p>Take care not to trap antenna cable under attachment nuts.</p>


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.

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

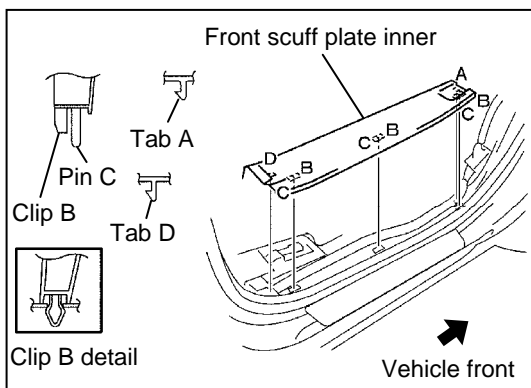
PART REMOVAL

Negative battery cable disconnection

1. Set the selector lever to D range.
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.

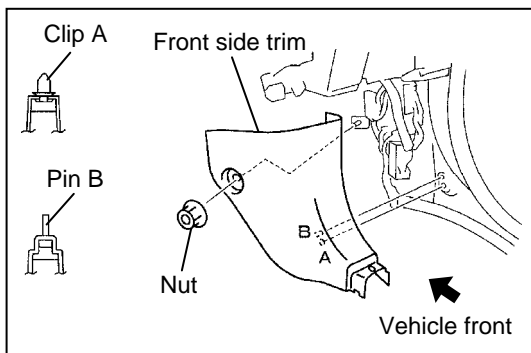


Front scuff plate inner (passenger's side) removal

⚠ CAUTION

- Be careful not to damage the scuff plate during removal.

1. Pull the front scuff plate inner upward while detaching tab A (1 location), detach clips B (3 locations), pins C (3 locations) and tab D (1 location), from the body, and then remove the front scuff plate inner.

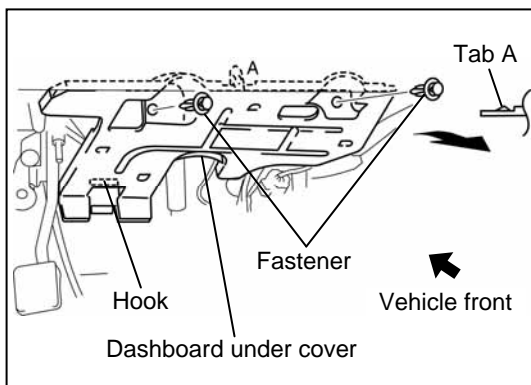


Front side trim (passenger's side) removal

⚠ CAUTION

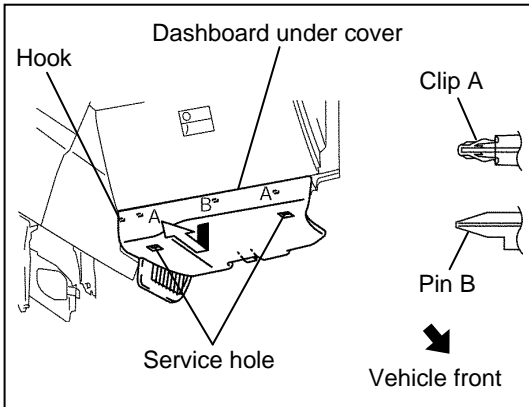
- Be careful not to tear the seaming welt when pulling it out.

1. Remove the nut (1 location).
2. Pull the front side trim upward, then detach clip A (1 location), pin B (1 location).



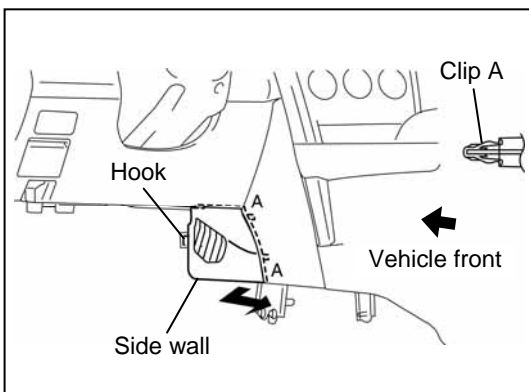
Dashboard under cover removal (Driver side)

1. Remove the fasteners (2 locations).
2. Detach tab A (1 location) and hook (1 location) by pulling them in the direction of the arrow.
3. Remove the dashboard under cover.



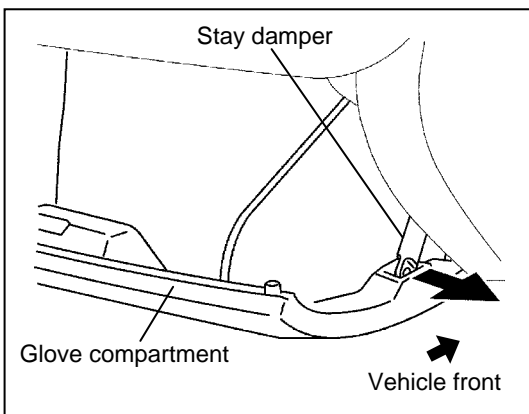
Dashboard under (passenger's side) cover removal

1. Insert fingers into the service hole and detach clips A (2 locations) and pin B (1 location) and hook (1 location) by pulling it in the direction of the arrow.
2. Remove the dashboard under cover.



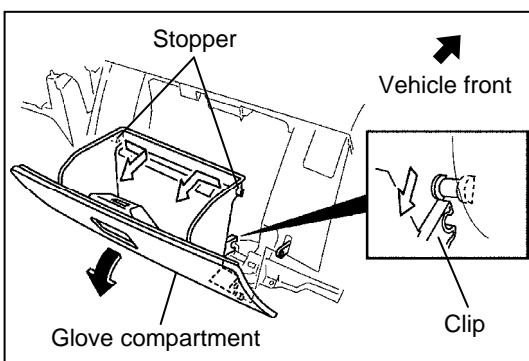
Side wall removal

1. Detach clips A (2 locations) and hook (1 location) by pulling them in the direction of the arrow.
2. Remove the side wall.

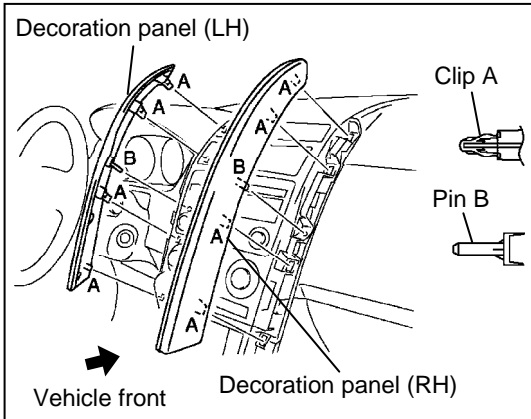


Glove compartment removal

1. Pull the stay damper in the direction shown in the figure, and detach the connecting part between the glove compartment and the stay damper.

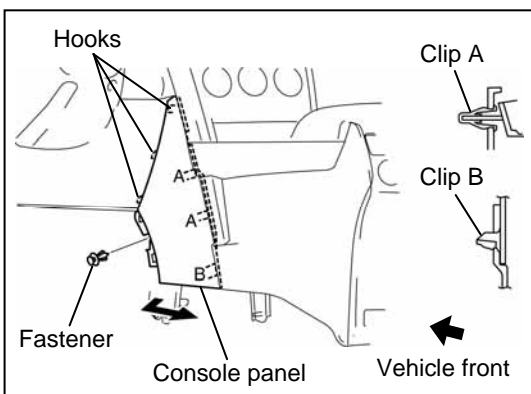


2. Press the stopper in and remove it.
3. Lower the glove compartment.
4. Detach the clips from the dashboard and remove the glove compartment.



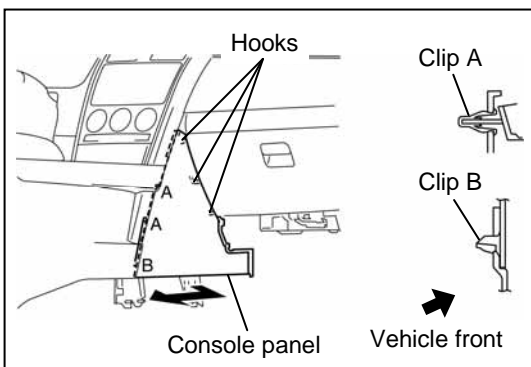
Decoration panel removal

1. Pull the decoration panel outward and detach clips A (4 locations) and pin B (1 location).
2. Remove the decoration panel.



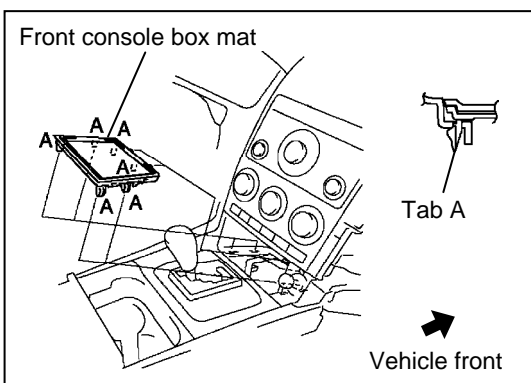
Console panel removal (LH)

1. Remove the fastener (1 location).
2. Detach clips A (2 locations) and clips B (1 location), and hooks (3 locations) by pulling them in the direction of the arrow.
3. Remove the console panel.



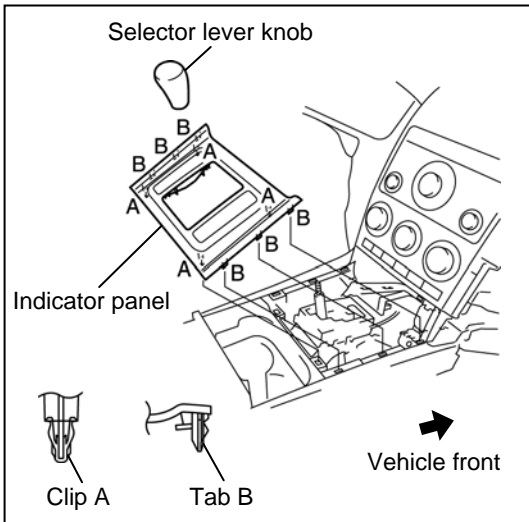
Console panel removal (RH)

1. Detach clips A (2 locations) and clips B (1 location), and hooks (3 locations) by pulling them in the direction of the arrow.
2. Remove the console panel.



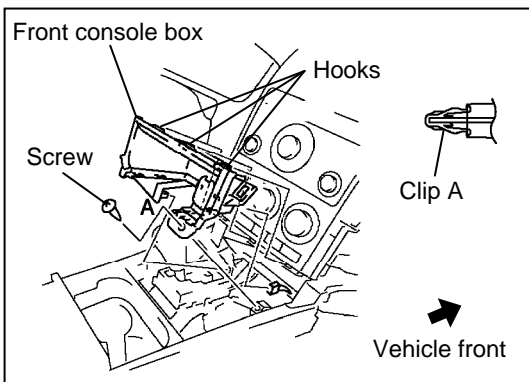
Front console box mat removal

1. Pull the front console box mat outward and detach tabs A (6 locations), then remove the front console box mat.



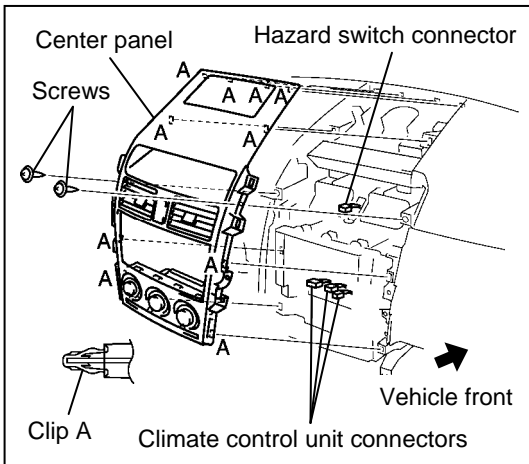
Indicator panel removal

1. Remove the selector lever knob.
2. Pull the indicator panel upward and detach clips A (4 locations) and tabs B (6 locations).
3. Remove the shift indicator illumination, and then remove the indicator panel.



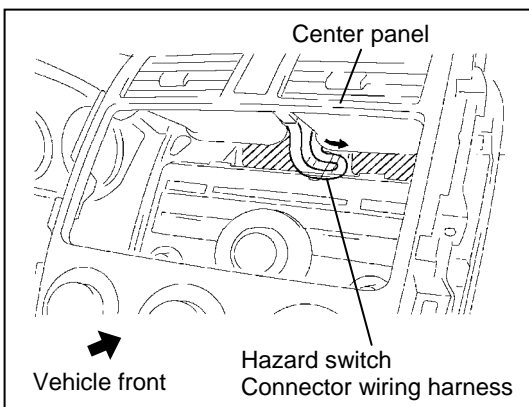
Front console box removal

1. Remove a screw (1 location).
2. Pull the front console box outward and detach clip A (1 location) and hooks (3 locations).
3. Disconnect the accessory socket connector.
4. Remove the front console box.



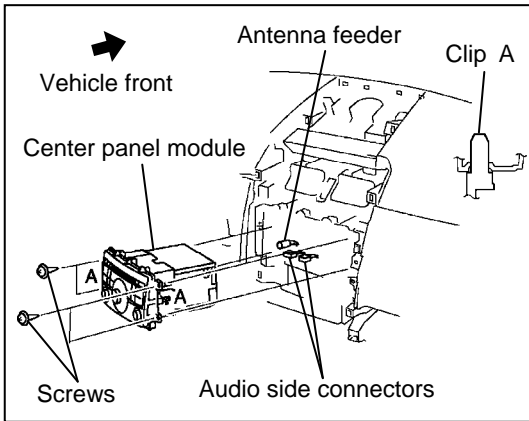
Center panel removal

1. Remove the screws (2 locations).
2. Pull the center panel outward and detach clips A (10 locations).
3. Disconnect the hazard switch connector and climate control unit connectors.
4. Remove the center panel.



⚠ CAUTION

- The ventilator grilles will be installed to the shaded areas shown in the figure. Therefore, if a wiring harness is in the areas, it could get caught and damaged. When installing the center panel, completely press in the wiring harnesses of the hazard warning switch connector in the direction of the arrow so that the wiring harnesses will not be caught.

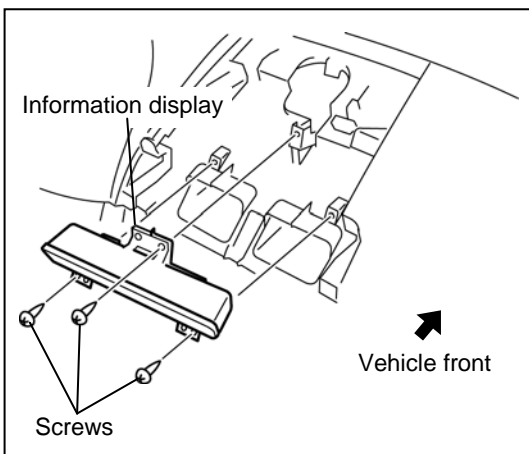


Center panel module removal

1. Remove the screws (4 locations).
2. Pull the center panel module outward slowly and detach clips A (2 locations).
3. Disconnect all the audio side connectors and antenna feeder, then remove the center panel module.

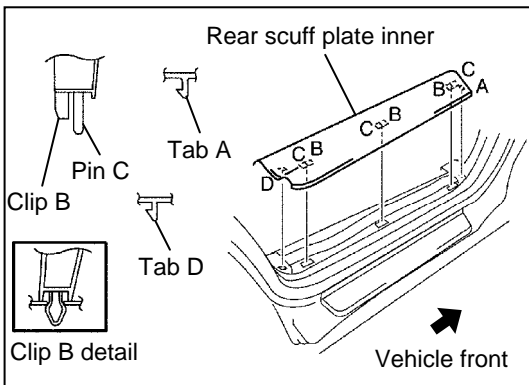
⚠ CAUTION

- When installing the center panel module, make sure that the wiring harness and antenna feeder are not caught between the module and dashboard. If the wiring harness or the antenna feeder is caught between the module and dashboard, it may cause malfunctions.



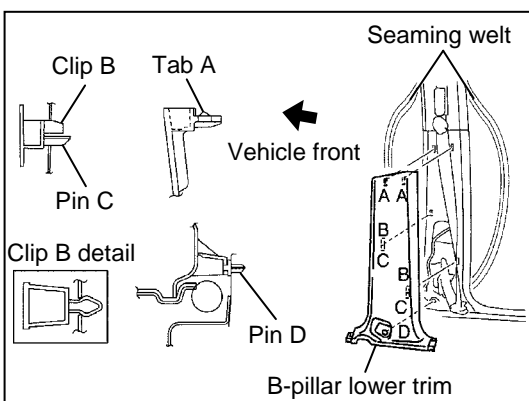
Information display removal

1. Remove the screws (3 locations).
2. Disconnect the information display connector and then remove the information display.



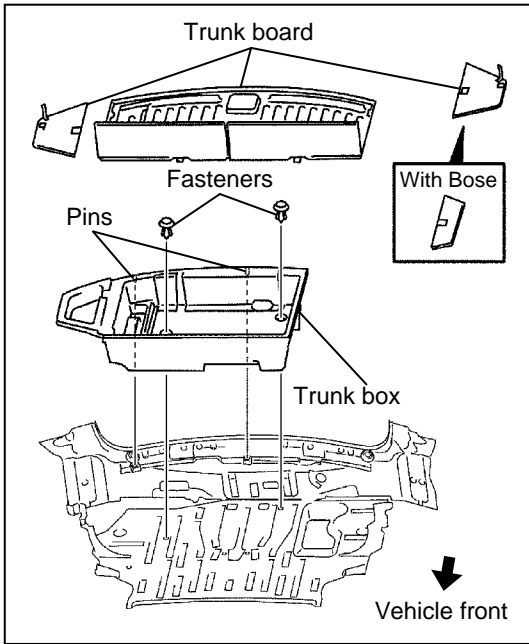
Rear scuff plate inner (passenger's side) removal

1. Pull the rear scuff plate inner upward while detaching tab A (1 location), detach clips B (3 locations), pins C (3 locations) and tab D (1 location), from the body, and then remove the rear scuff plate inner.



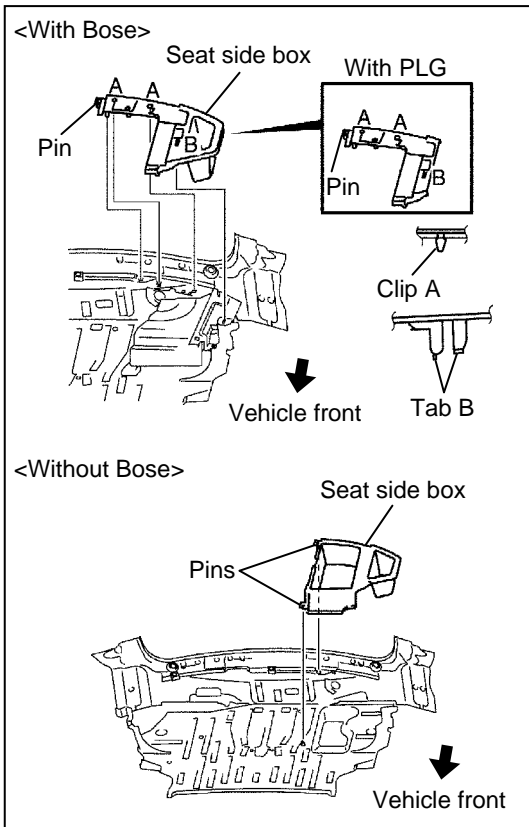
B-pillar lower trim (passenger's side) removal

1. Partially peel back the seaming welt.
2. Pull the B-pillar lower trim outward and detach tabs A (2 locations), clips B (2 locations), pins C (2 locations) and D (1 location).
3. Remove the B-pillar lower trim.



Trunk box removal

1. Remove the trunk board.
2. Remove the fastener.
3. Remove the trunk box.



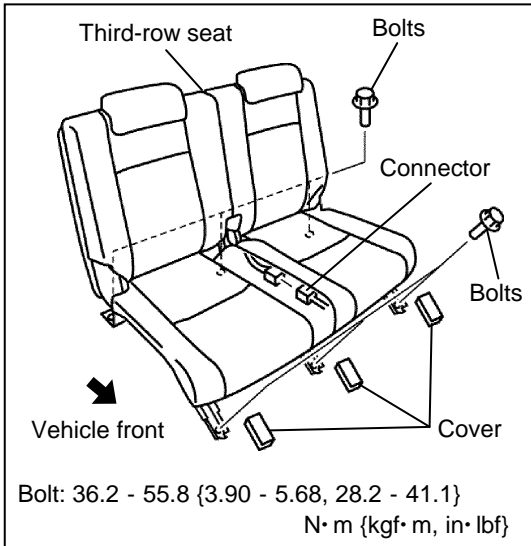
Seat side box removal

<With Bose>

1. Pull the seat side box outward and detach clips A (2 locations), and tab B (1 location).
2. Remove the seat side box.

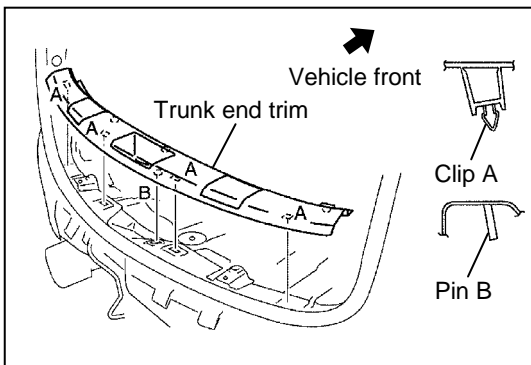
<Without Bose>

1. Remove the seat side box.



Third-row seat removal

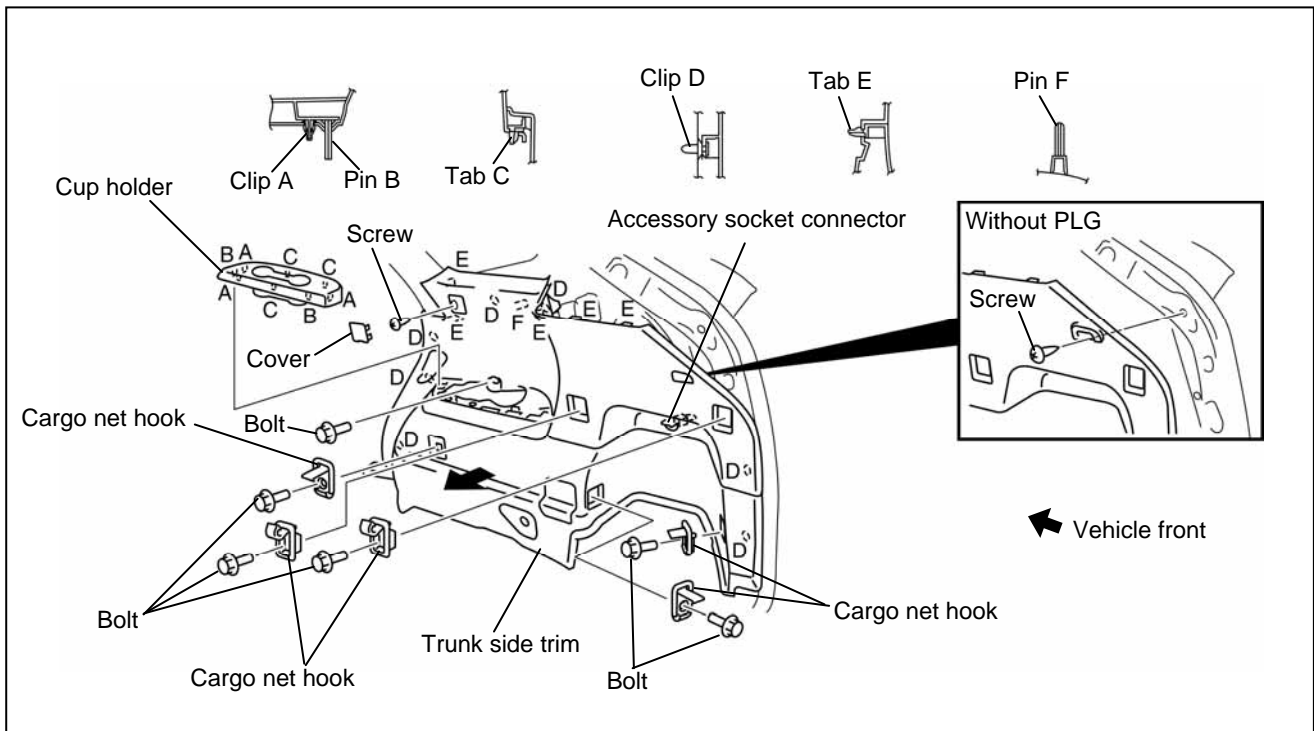
1. Remove the covers (3 locations).
2. Remove the bolts (6 locations).
3. Disconnect the connector.
(With third-row seat back electric reversion mechanism.)



Trunk end trim removal

1. Pull the trunk end trim upward, then disengage clips A (4 locations) and pin B (1 location)
2. Remove the trunk end trim.

Trunk side trim (Passenger's side) removal

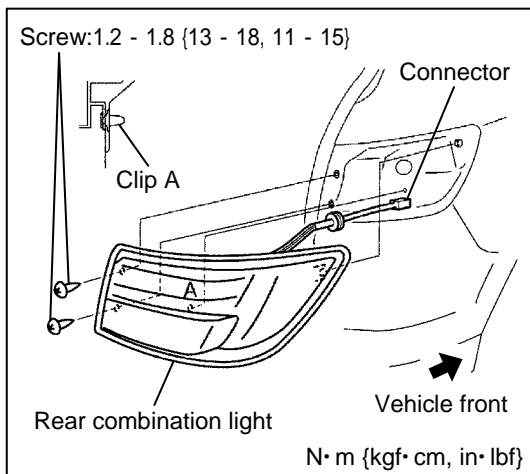


1. Remove the third-row seat belt lower anchor installation bolt.

Tightening torque:

Bolt : 38.2 - 78.4 N·m {3.90 - 7.99 kgf·m, 28.2 - 57.8 in·lbf}

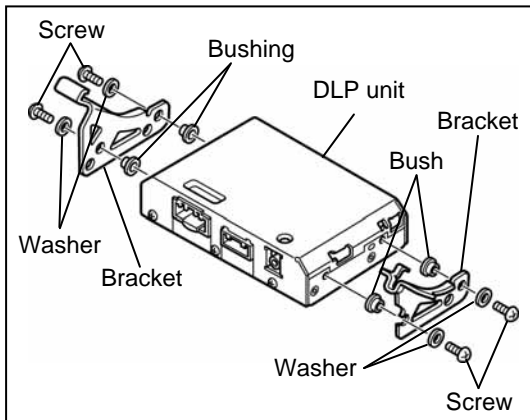
2. Pull the cup holder upward and detach clips A (2 locations), pins B (2 locations), and tabs C (3 locations).
3. Remove the cup holder.
4. Remove the bolts (5 locations), and remove the cargo net hooks (5 locations).
5. Remove the cover.
6. Remove the screw (1 location).
7. Remove the bolt (1 location).
8. Remove the screw (1 location). (Vehicles without PLG)
9. Pull the trunk side trim outward and detach clips D (7 locations), tabs E (5 locations), and pin F (1 location).
10. Disconnect the accessory socket connector.
11. Remove the trunk side trim.



Rear combination light (Passenger's side) removal

1. Disconnect the connector.
2. Remove the screws (2 locations).
3. Remove the rear combination light.

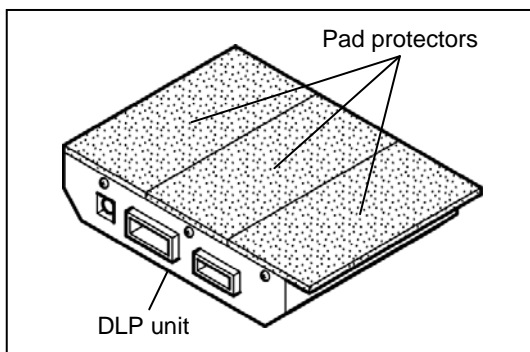
6 INSTALLING DLP UNIT



1. Remove the bushings (4 locations), brackets (2 locations), washers (4 locations), and screws (4 locations) from the DLP unit.

Note

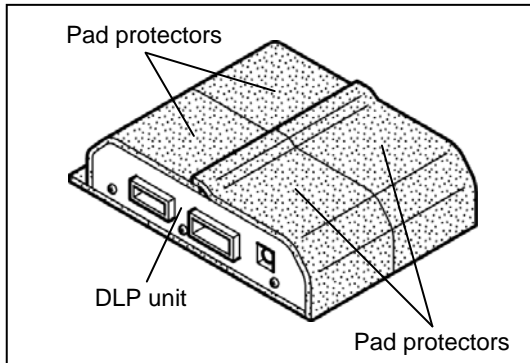
- The brackets are not used with the installation of this accessory.



2. Affix the pad protectors to the DLP unit as shown in the figure.

CAUTION

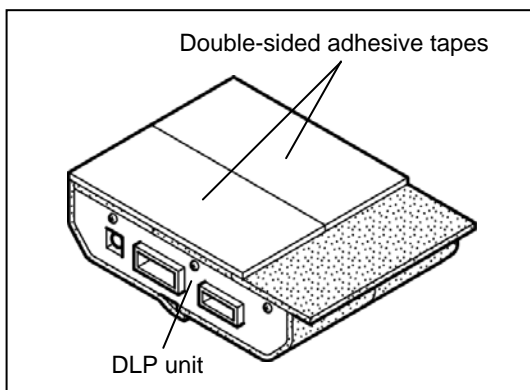
- To ensure proper affixing, be sure to degrease the area where the pad protector is affixed.



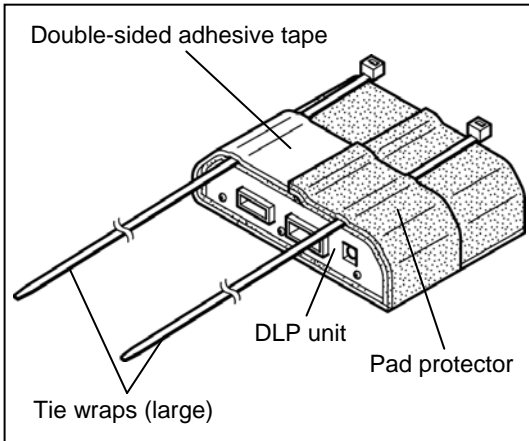
3. Affix the pad protectors to the DLP unit as shown in the figure.

CAUTION

- To ensure proper affixing, be sure to degrease the area where the pad protector is affixed.



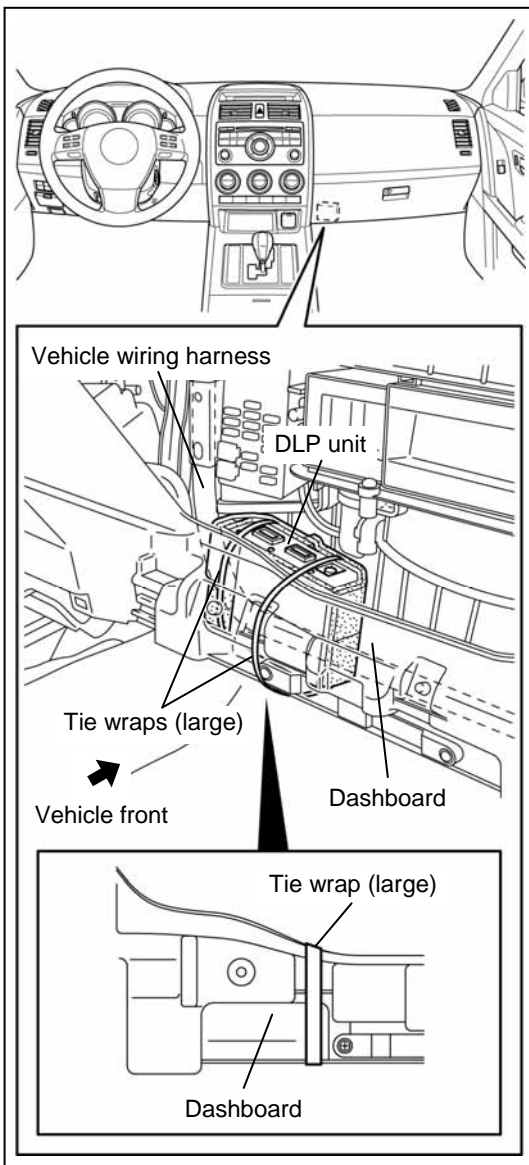
4. Adhere double-sided adhesive tapes to the top of the pad protectors.



5. Affix the tie wrap (large) to the DLP unit with a pad protector as shown in the figure.
6. Affix the tie wrap (large) to the DLP unit with a double-sided adhesive tape as shown in the figure.

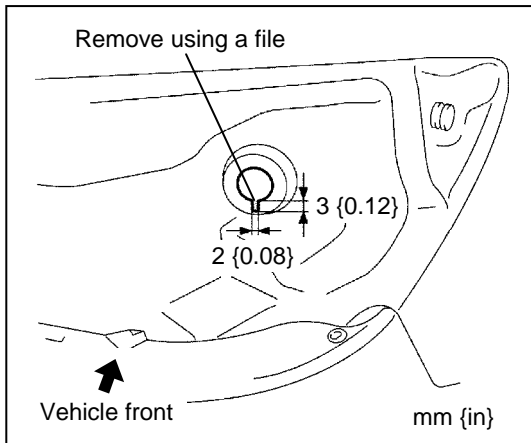
CAUTION

- Do not block the connector area with the tie wrap or it will interfere with the harness.



7. Secure the DLP unit to the vehicle wiring harness on the rear surface of the dashboard and to the dashboard using the two tie wraps (large).

7 INSTALLING ANTENNA

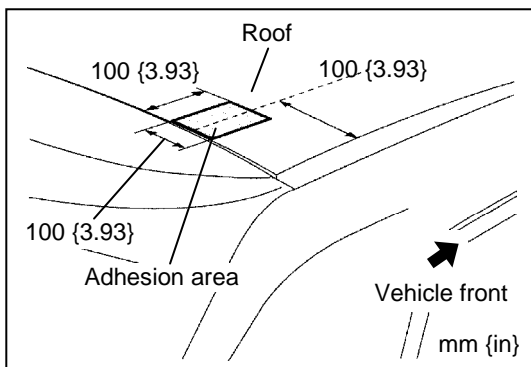


1. File the hole where the rear combination light harness passes through as shown in the figure.

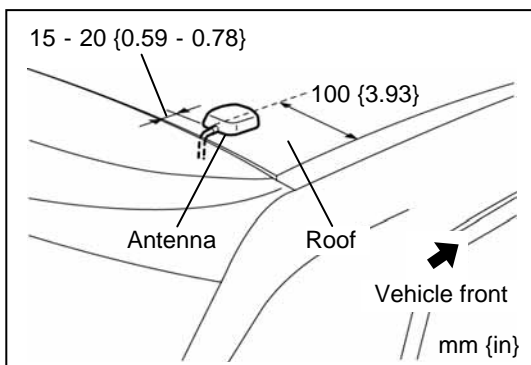
⚠ CAUTION

- When filing, always use a mat or other protection to prevent shavings from getting into the vehicle interior.
- Be sure to remove any burrs after filing.
- Remove any chips or drill filings that may have fallen in the vehicle.

2. Using ISP alcohol, remove grease from around the holes and apply touch-up paint or zinc primer for rust prevention.



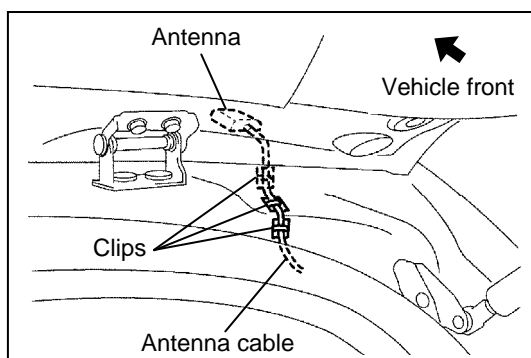
3. Clean the adhesion area on the roof with isopropyl alcohol (IPA).



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

⚠ CAUTION

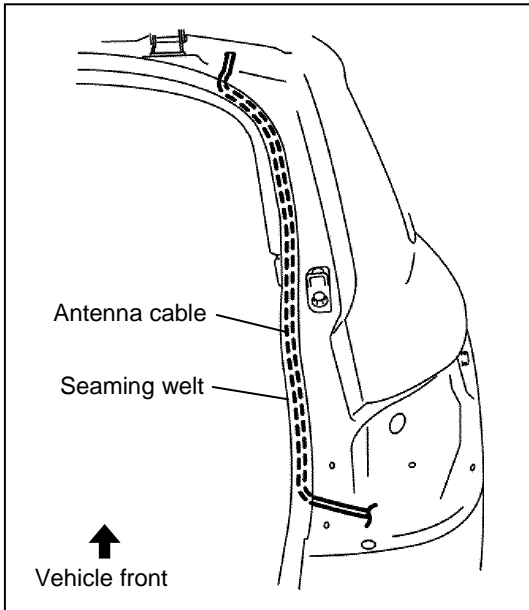
- To ensure proper affixing, be sure to degrease the area where the double-sided adhesive tape is affixed.



5. Clean the adhesion area on the body shell with isopropyl alcohol (IPA).

6. Attach the clip to the vehicle as shown in the figure.

7. Install the antenna cable to the clips.

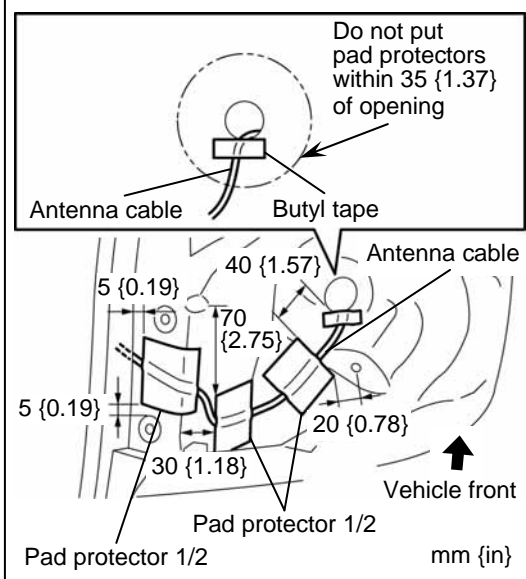


8. Pull the seam upward and route the antenna cable in the seaming welt. (Does not need to be completely removed)

CAUTION

- It is critical that the antenna follows the route as shown. Failure to follow this route will not provide the slack required to open and close the liftgate.
- Be careful not to tear the seaming welt when pulling it up.
- Do not remove trunk seam from the flange. The antenna cable must not interfere with the flange seals.

9. Reinstall the rubber seaming welt to its original position.



10. Clean the adhesion area with isopropyl alcohol (IPA).

11. Secure the antenna cable in place with the butyl tape and pad protector halves.

CAUTION

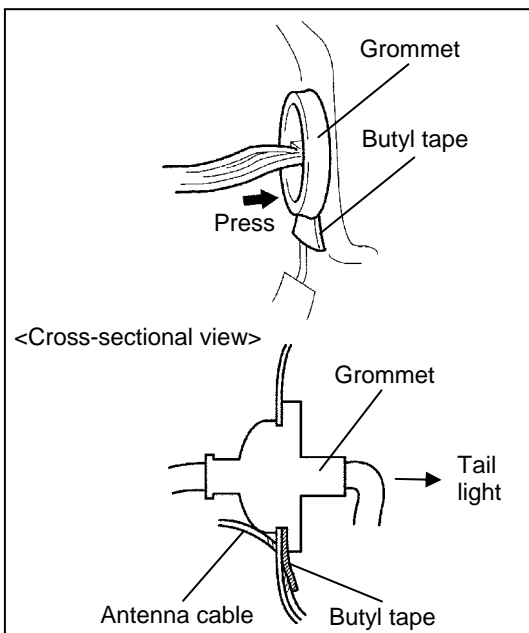
- To ensure proper affixing, be sure to degrease the area where the pad protector is affixed.
- Do not wrap butyl tape around flange.
- Do not double-layer tape. Butyl tape should hold the antenna cable to the sheet metal as shown.
- Take care not to trap antenna cable under attachment nuts.



12. Install the rear combination light grommet.

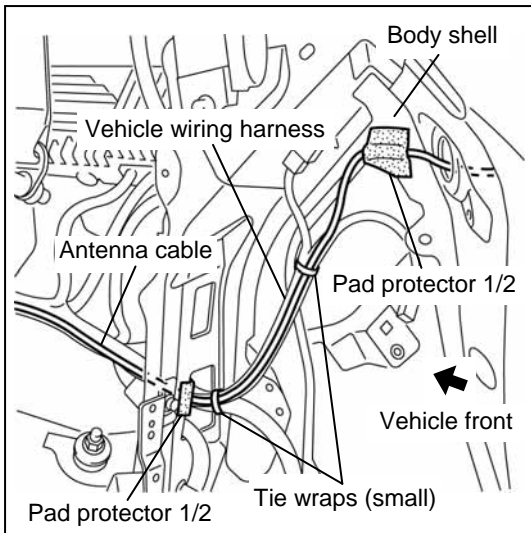
CAUTION

- Be careful not to tear the seaming welt when pulling it up.



13. Install the rear combination light.

14. Reconnect the rear combination light connector.

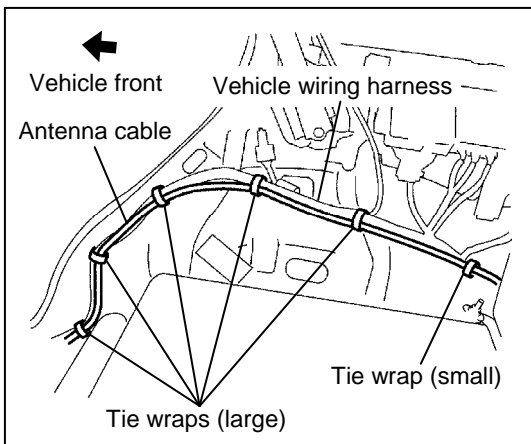


15. Secure the antenna cable to the body shell with pad protector half.
16. Affix pad protector half around the edges.

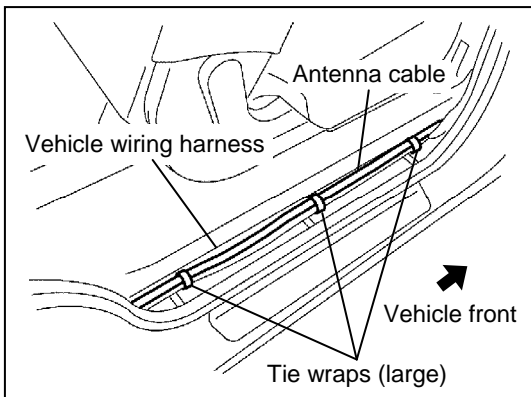
CAUTION

- To ensure proper affixing, be sure to degrease the area where the pad protector is affixed.

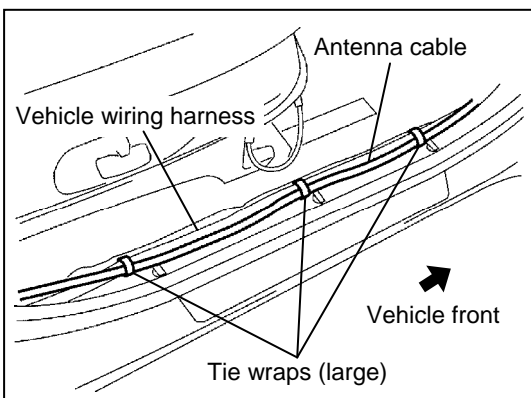
17. Secure the antenna cable to the vehicle wiring harness with tie wraps (small).



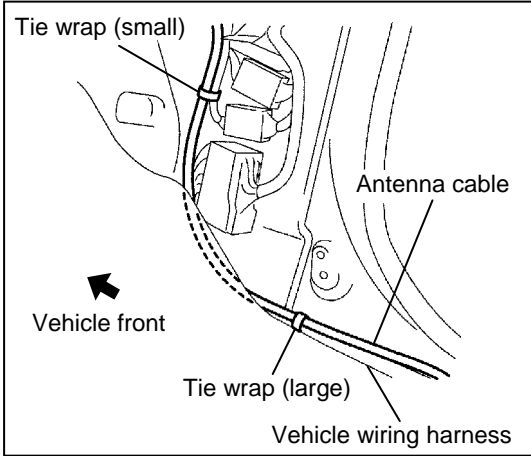
18. Secure the antenna cable to the vehicle wiring harness with tie wraps.



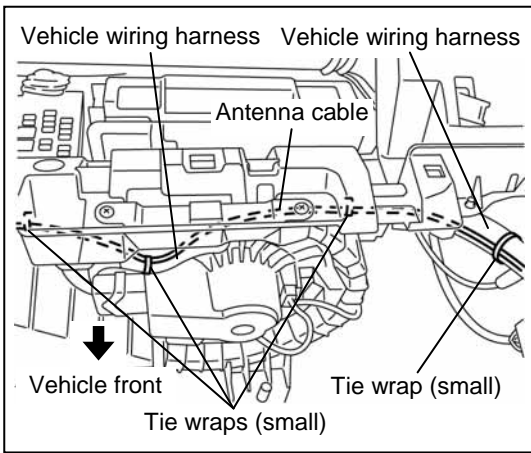
19. Secure the antenna cable to the vehicle wiring harness with tie wraps (large).



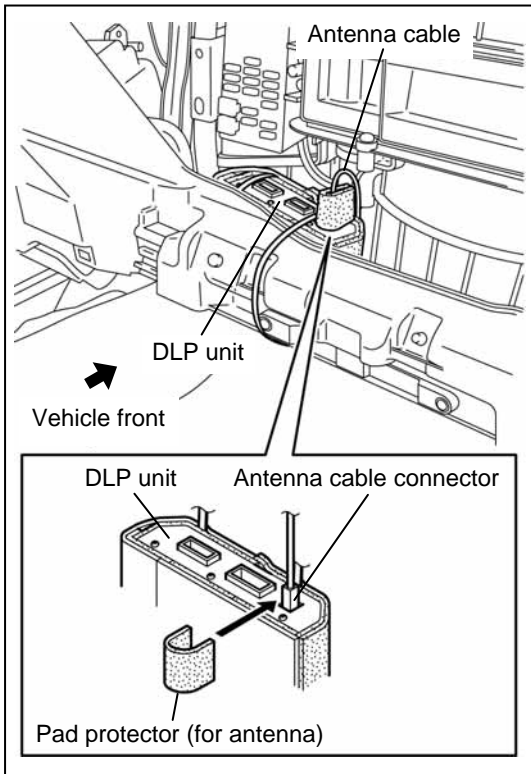
20. Secure the antenna cable to the vehicle wiring harness with tie wraps (large).



21. Secure the antenna cable to the vehicle wiring harness with tie wraps.



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

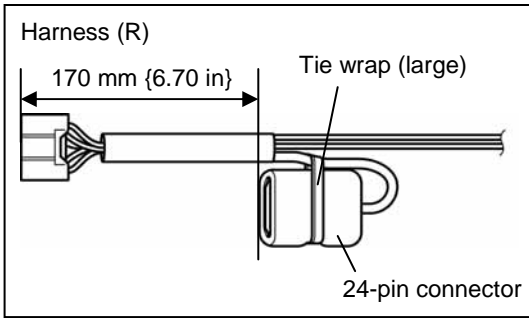


23. Connect the antenna cable to the DLP unit.

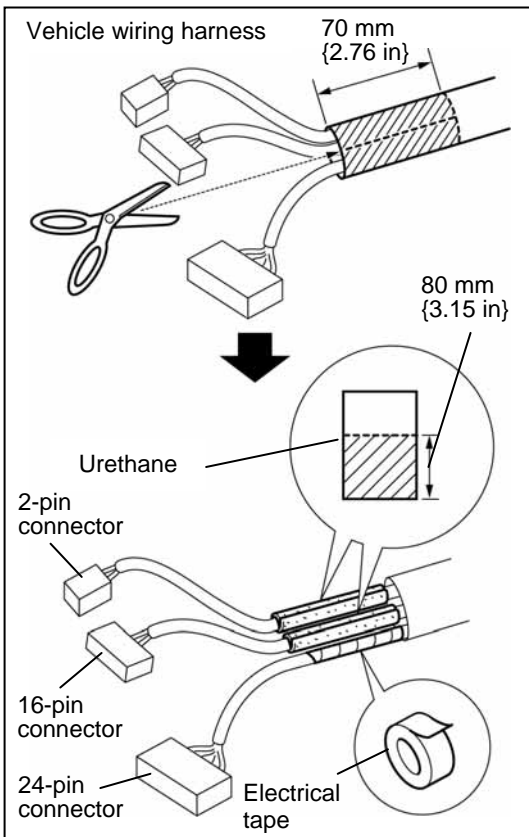
24. Wrap the antenna cable connector using the pad protector for the antenna.

8

INSTALLING THE HARNESS



1. Fold back the harness (R) 24-pin connector and secure it with a tie wrap (large).

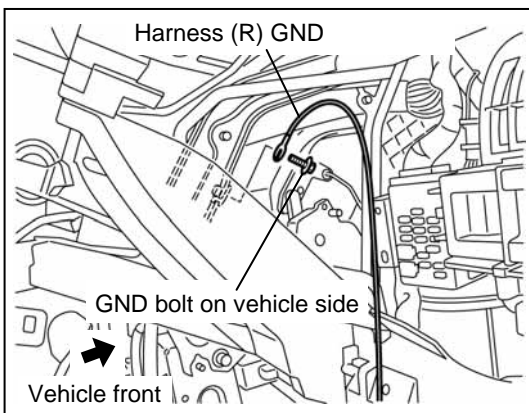


2. Cut open the insulation wrapping the vehicle wiring harnesses to a length of 70 mm {2.76 in}.

⚠ CAUTION

- Be careful not to cut the vehicle wiring harnesses.

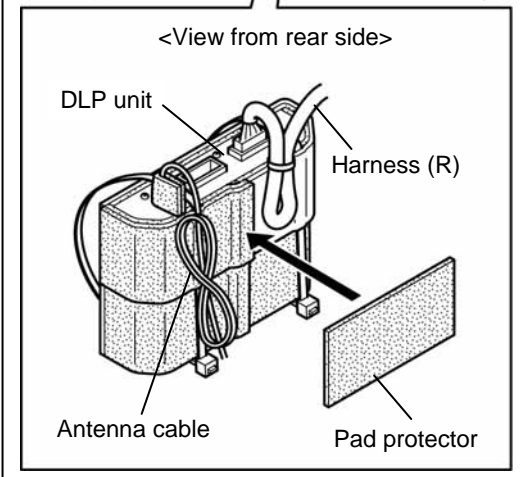
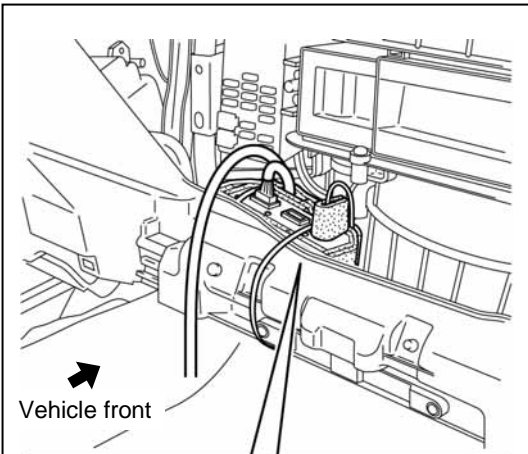
3. Perform the following measures to prevent noise.
 - 24-pin connector: Re-wrap the sponge of the 24-pin connector using electrical tape.
 - 2-pin and 16-pin connectors: Wrap with urethane to a length of 80 mm {3.15 in}.



4. Tighten the wiring harness (R) GND together with the GND bolt on the vehicle side.

• GND bolt tightening torque:

7.8 – 10.8 N•m {79.5 – 110.1 kgf•cm, 9.0 – 95.5 in•lbf }

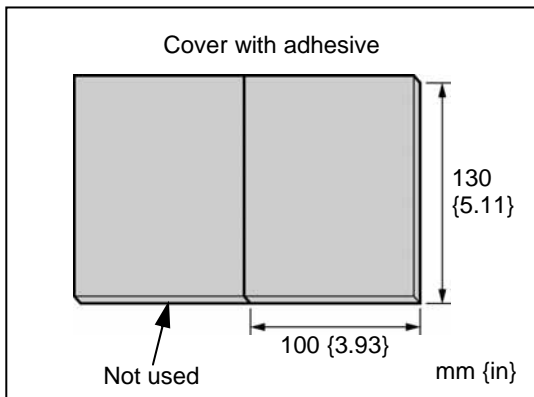


5. Connect the wiring harness (R) to the DLP unit.

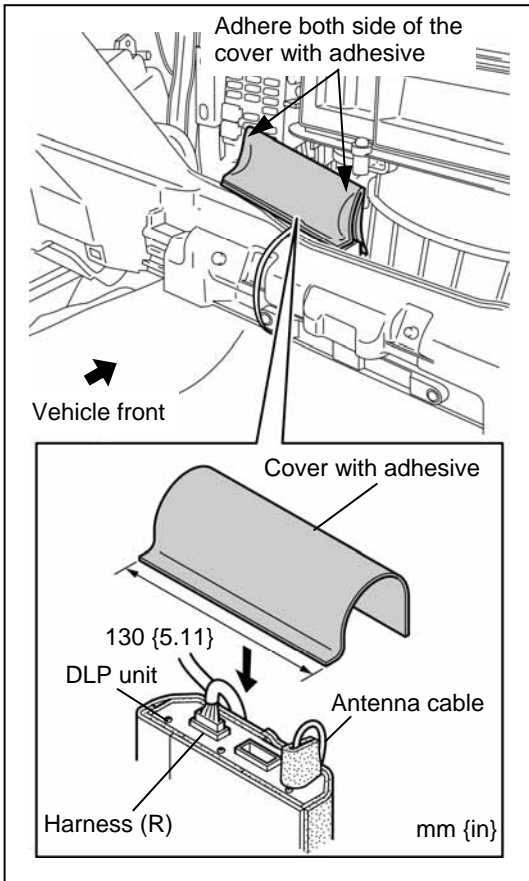
6. Affix and secure the redundant part of the wiring harness (R) and the antenna cable to the DLP unit using the pad protector.

CAUTION

- Make sure the antenna cable maintains a minimum 15 mm radius around the DLP unit. Otherwise reception performance could be affected.



7. Cut the cover with adhesive to half as shown in the figure.

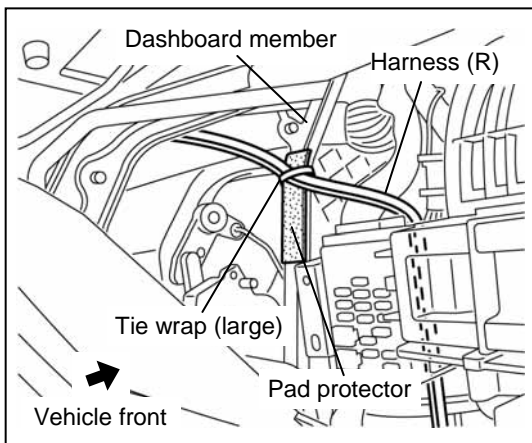


8. Affix the cover with adhesive to the surface where the connector is connected.

CAUTION

- To protect against water penetration, always affix the cover with adhesive after connecting the connector. Otherwise, it could result in the DLP unit malfunctioning.
- Keep the antenna cable at a minimum 15 mm radius around the DLP after installing the cover with adhesive.

9. Bundle the redundant part of the antenna cable using electrical vinyl tape and put it in the front side trim (passenger's side).



10. Affix the pad protector to the dashboard member.

CAUTION

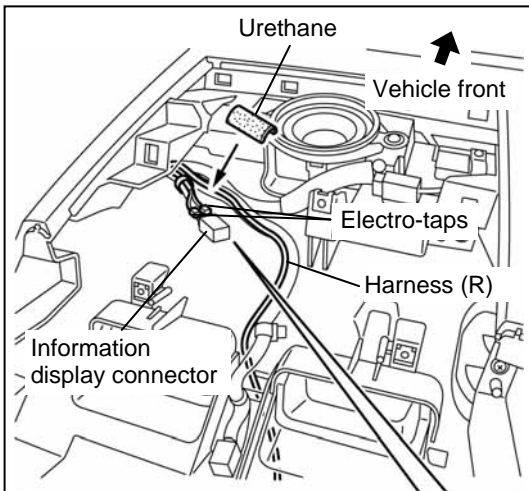
- To ensure proper affixing, be sure to degrease the area where the pad protector is affixed.

11. Route the harness (R) to the back of the center panel module and to the back of the information display.

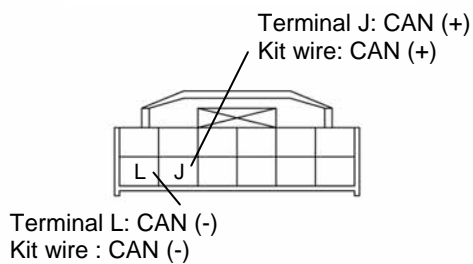
12. Secure the wiring harness (R) on the affixed pad protector using the tie wrap (large).

CAUTION

- Pass the harness (R) through the affixed side of pad protector (vehicle rear side) of the dashboard member.



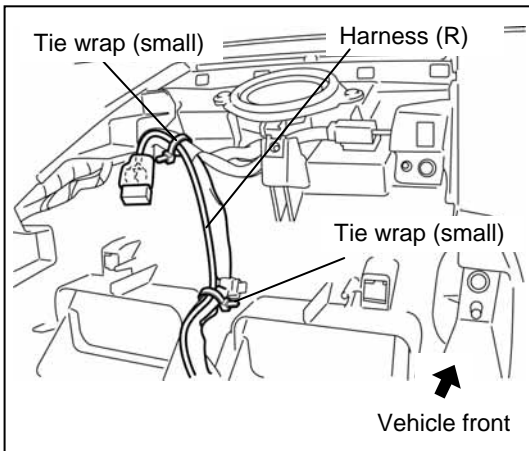
[Display 12-pin connector]



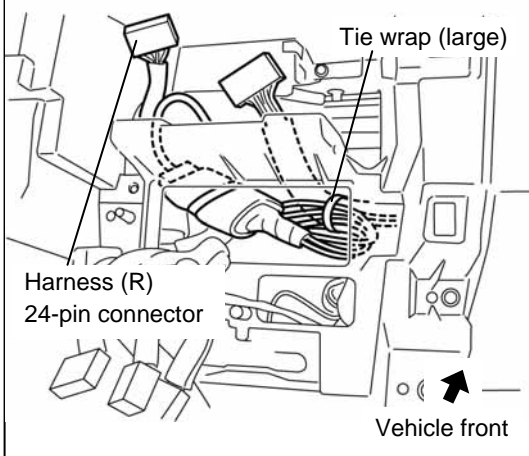
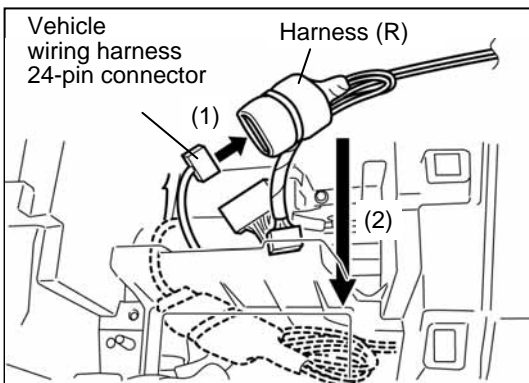
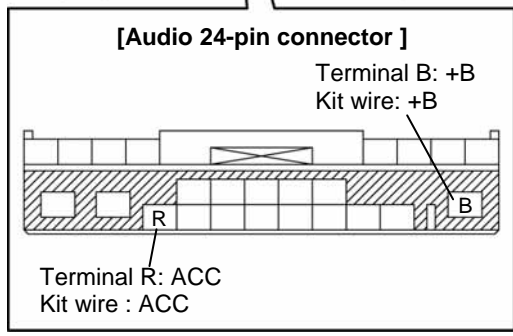
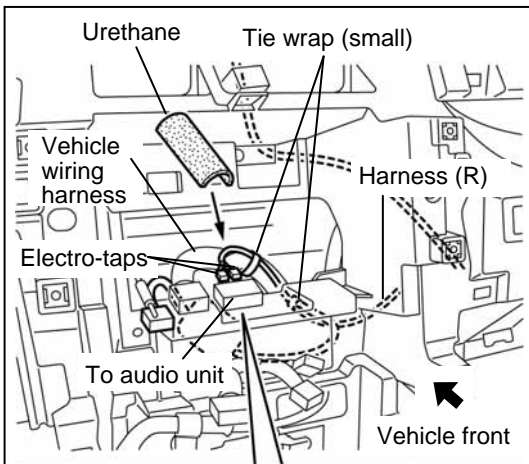
13. Branch connect the CAN (+) wires (for Sirius) to the information display 12-pin connector (terminal J) using the electro tap.
14. Branch connect the CAN (-) wires (for Sirius) to the information display 12-pin connector (terminal L) using the electro tap.

Display 12-pin connector (Vehicle wire)	Kit wire
Terminal J	CAN (+)
Terminal L	CAN (-)

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



16. Secure the harness (R) to the vehicle wiring harness with a tie wraps (small).



17. Branch connect the +B wires (for Sirius) to the audio 24-pin connector (terminal B) using the electro tap.
18. Branch connect the ACC wires (for Sirius) 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

19. Wrap the electro taps and vehicle wiring harness together using urethane.
20. Secure the harness (R) to the vehicle wiring harness with the tie wraps (small).

21. Connect the harness (R) 24-pin connector to the vehicle wiring harness 24-pin connector.
22. Put the harness (R) behind the center panel module as shown in the figure.
23. Secure the harness (R) to the vehicle wiring harness with a tie wrap (large).

9

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

- Disconnecting the battery causes the DSC indicator light to become inoperable.
(At this point, the DSC OFF indicator light flashes and the TCS/DSC indicator light is illuminated.)

To restore the DSC to an operable condition, perform the following procedures:

1. Turn the ignition switch to the ON position.
2. Turn the steering wheel completely to the right and then completely to the left.
3. Verify that the DSC OFF indicator light goes out.
4. Turn the ignition switch off and then turn it to the ON position again.
5. Verify that the TCS/DSC indicator light goes out.

If the TCS/DSC or DSC OFF indicator lights do not go out after turning the ignition switch to the ON position, consult your Mazda dealer.

- When the battery is disconnected, the windows will not fully open and close automatically.

Perform the following procedure to resume operation:

1. Turn the ignition switch to the ON position.
2. Press the switch and fully open the window.
3. Pull up the switch and continue holding for about 2 seconds to fully close the window.
4. If the function does not operate even after the ignition switch is turned off, contact an Authorized Mazda Dealer.

10 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 removal				
Rear seat cushion removal				
Trunk box removal (driver's and passenger's side)				
B-pillar lower trim (passenger's side)				
Rear scuff plate inner (passenger's side)				
Center panel unit				*1
Center panel				
Glove compartment				
Front side trim (passenger's side)				
Front scuff plate inner (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/CX9_ACCY_HOME.htm

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

The term of validity for this sheet: 3 years