

Part Number: PTS31-53070

Kit Contents

Item #	Quantity Reqd.	Description
1	1	Antenna, Interior
2	1	Wire Harness
3	1	Bracket, Floor
4	2	Hardware Bags
5	1	Template
6	1	SIRIUS Satellite Radio Brochures

Hardware Bag Contents - 1

Item #	Quantity Reqd.	Description
1	6	Foam Pads
2	7	Lock Ties
3	4	Double-Sided Tape
4	1	

Hardware Bag Contents - 2

Item #	Quantity Reqd.	Description
1	8	Screw (6-32x5/16)
2	3	Nut (Hex 6-32) DO NOT USE
		Screw #10 x 1/2" Self-Drilling

Conflicts

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Recommended Tools

Personal & Vehicle Protection	Notes
Safety Goggles	
Seat Covers	
Floor Protectors	
Special Tools	Notes
None	
Installation Tools	Notes
Ratchet	
Extension	
Sockets	10 mm, 14 mm
Screwdriver	Phillips, #2

Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Masking Tape	50 mm width
Torque Wrench	
Side Cutter	
Long Nose Pliers	
Scissors	
Carpet Cutting Knife	Matt Knife
Plastic Spreader	61/4" Plastic Bondo Spreader

NOTE: Part number of this accessory may not be the same as the part number shown.

Tape Measure	Metric
Special Chemicals	Notes
Cleaner	Approved Cleaner or house hold glass cleaner

General Applicability

Note:-

Recommended Sequence of Application






Item #	Accessory
1	
2	
3	

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1		
2		
3		

Legend

	STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.
	OPERATOR SAFETY: Use caution to avoid risk of injury.
	CAUTION: A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.
	TOOLS & EQUIPMENT: Used in Figures calls out the specific tools and equipment recommended for this process.
	REVISION MARK: This mark highlights a change in installation with respect to previous issue.

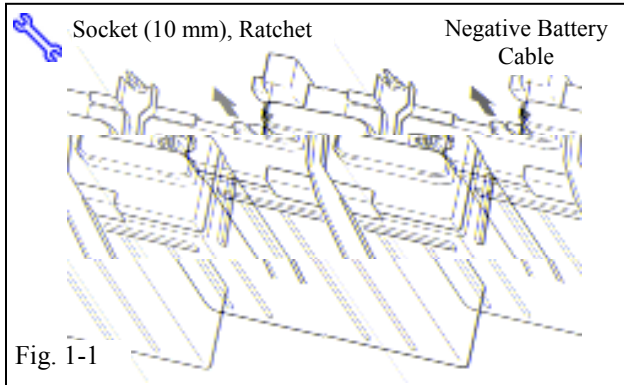
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

These guidelines can be found in the "Accessory Installation Practices" document.

This document covers such items as:-

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

Please see your Toyota dealer for a copy of this document.



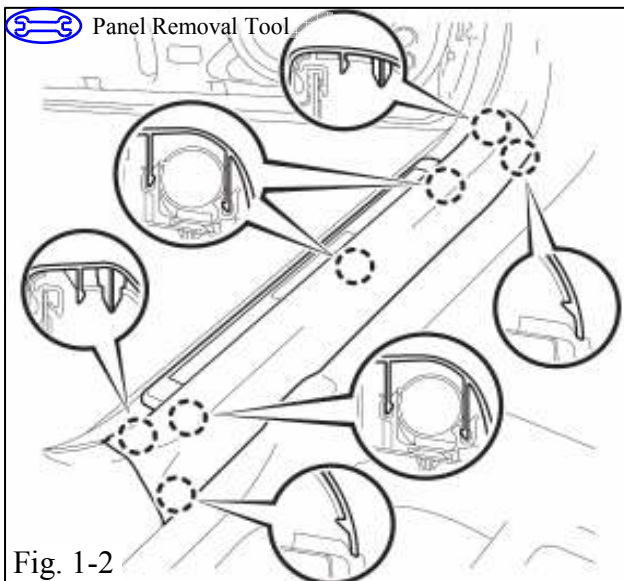
1. Vehicle Disassembly.



- (a) Set parking brake.
- (b) Remove the negative battery cable.
(Fig. 1-1)

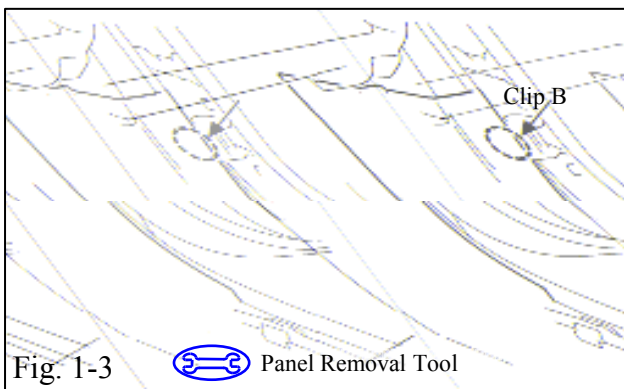


- (1) Protect the fender before starting.
- (2) Do not touch the positive terminal with any tool when removing cable.



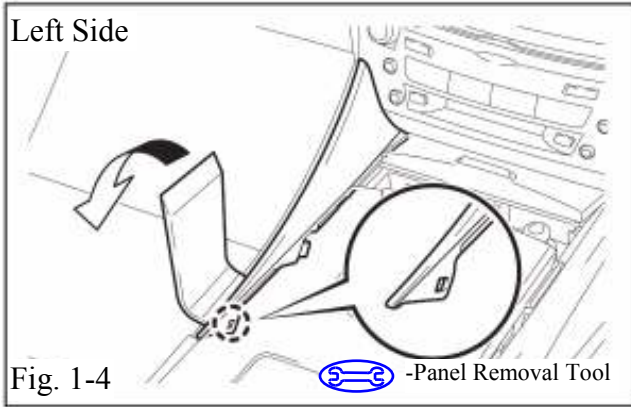
- (c) Disengage the clips and claws and remove the front passenger side door scuff plate.
(Fig. 1-2)

- (1) Disconnect any connectors.



- (d) Open passenger side cowl side trim carpet
(Fig. 1-3) as follows:

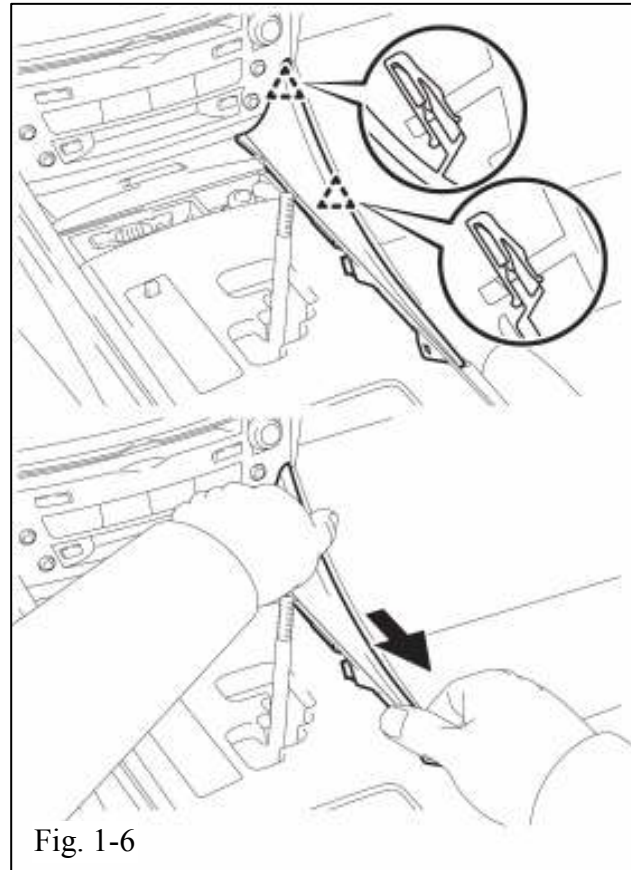
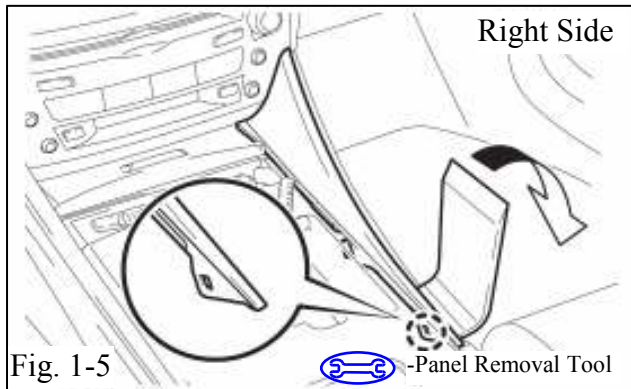
- (1) Disengage clip B and open the cowl side trim for easy access.



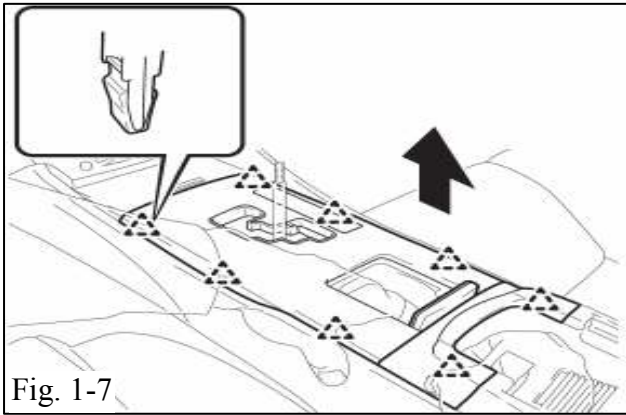
(e) Unscrew & remove Shift Knob.

(f) Remove upper console side trim – Auto Trans.

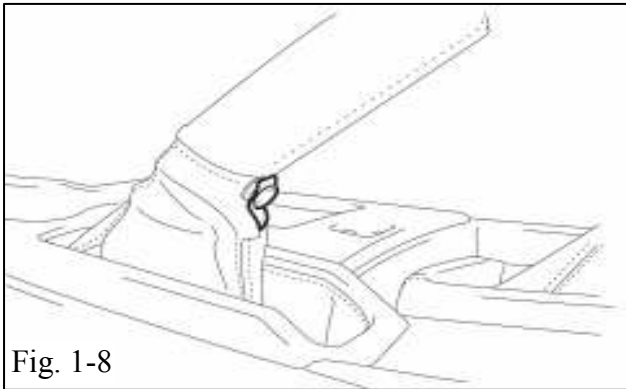
(1) Using “nylon pry tool” gently pry end upward to release clip as shown.
(Figs. 1-4 & 1-5)



(2) By hand gently pull upward and back to remove side trim. Remove both sides using same process. (Fig. 1-6)



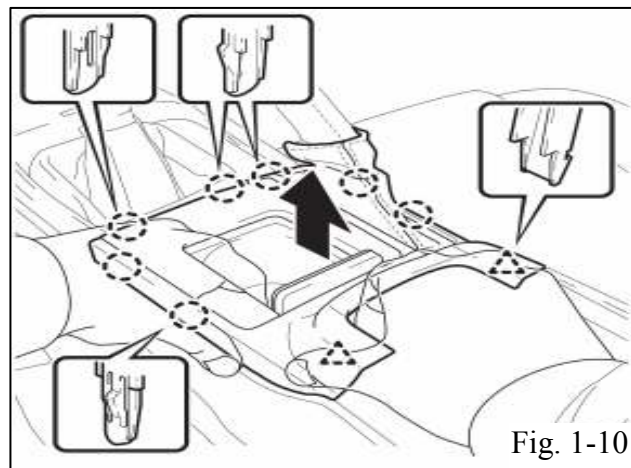
- (g) Remove Upper Console Trim – Auto Trans.
 - (1) By hand gently pull upward to release clips and remove the trim. (Fig. 1-7)
 - (2) Disconnect any connectors.



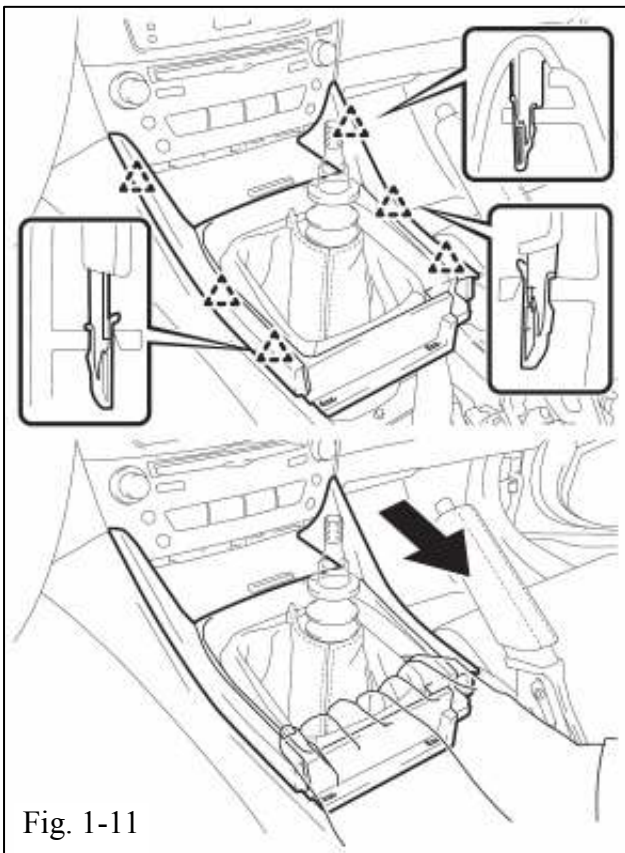
- (h) Remove Upper Console Trim – Manual Trans.
 - (1) Release snap on emergency brake leather cover. (Fig. 1-8)



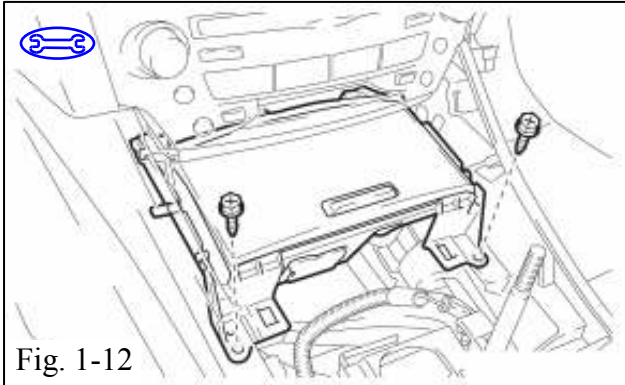
- (2) Release snap on shift lever cover. (Fig. 1-9)



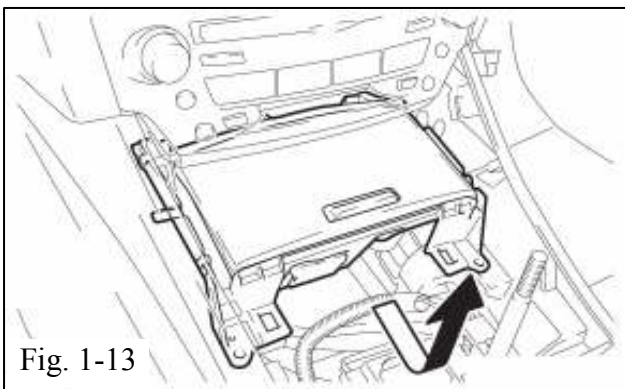
- (3) By hand grasp structure under cover and gently pull up on emergency brake leather cover assembly to release the clips & remove the cover. (Fig. 1-10)



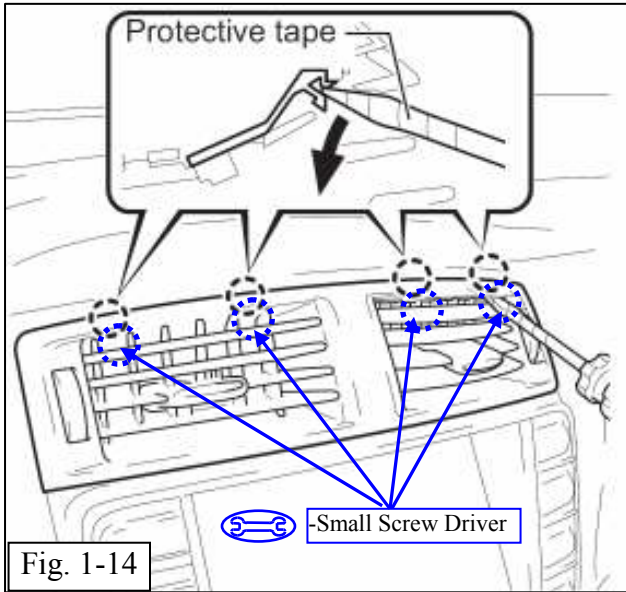
- (4) By hand gently pull up on shift lever leather cover to release clips & remove. (Fig. 1-11)



- (i) Remove Center Console Upper Box.
 - (1) Remove 2 screws as shown. (Fig. 1-12)
 - (2) By hand pull upward & remove box. (Fig. 1-13)

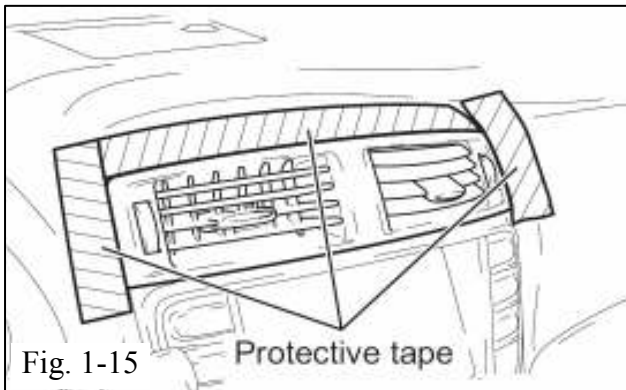


- (3) Disconnect any connectors.

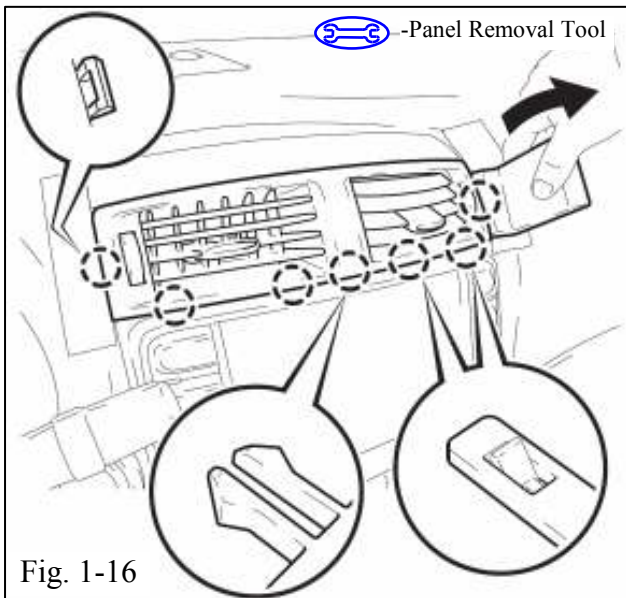


(j) Remove Upper Vents Trim Piece.
(Fig. 1-14)

- ⚠ (1) Disengage the 4 clips using a screwdriver with protective tape applied as show. (Fig. 1-14)

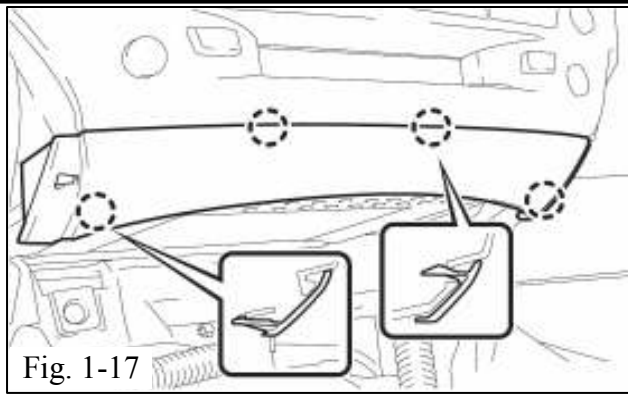


(2) Apply protective tape to dash area as shown. (Fig. 1-15)



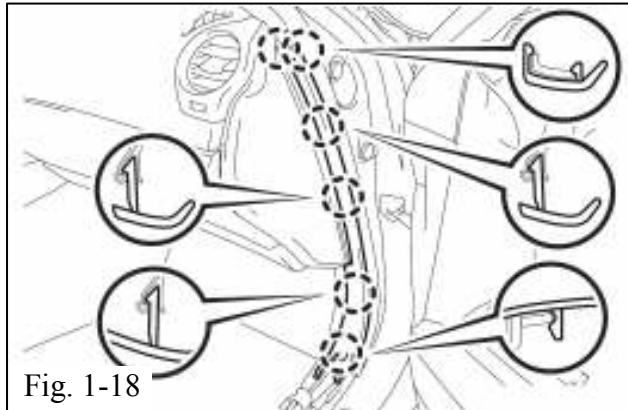
(3) Using a nylon pry tool gently pry on vent trim panel to release clips as shown. (Fig. 1-16)

(4) Disconnect any connectors & then remove trim panel.



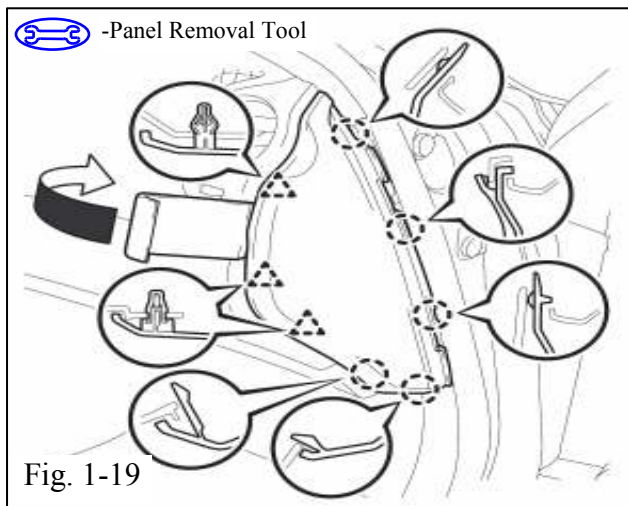
(k) Remove Lower Radio Fascia.

- (1) By hand gently pull outward to release the 4 clips to remove fascia. (Fig. 1-17)



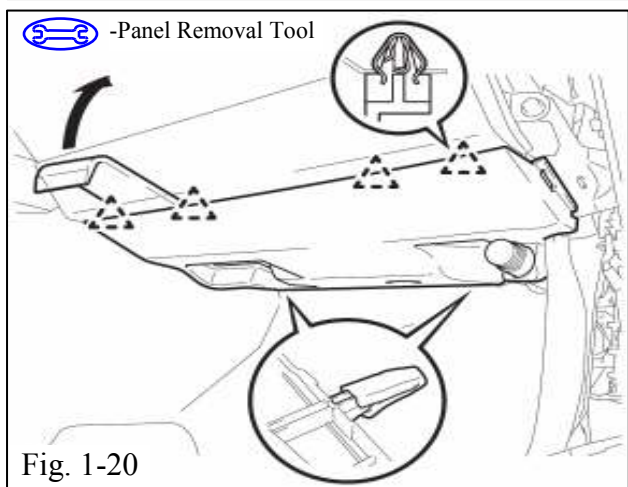
(l) Remove Right Side "A" Pillar Trim.

- (1) By hand gently pull trim to release the 6 clips & remove. (Fig. 1-18)



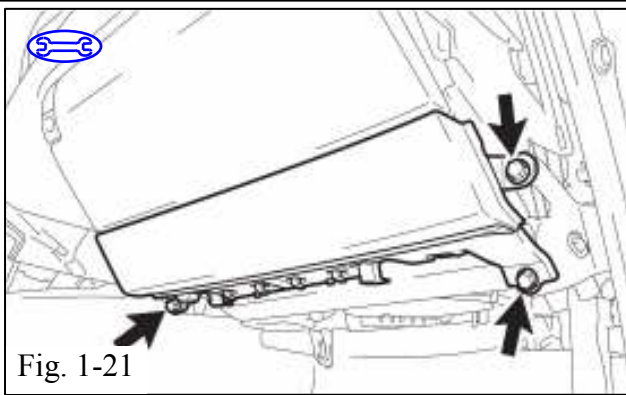
(m) Remove "A" Pillar Dash Panel.

- (1) Using a nylon removal tool release the clips & claws as shown.& remove the panel. (Fig 1-19)



(n) Remove Lower Glove Box Trim Panel.

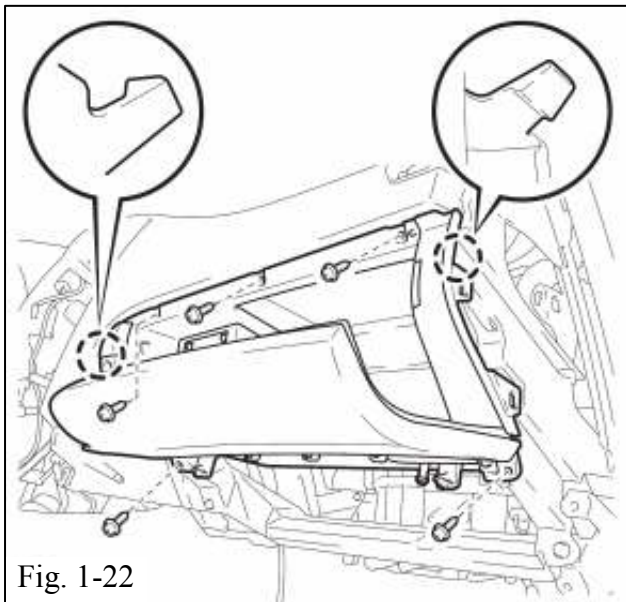
- (1) Using a nylon removal tool release the 4 clips as shown.& remove the panel. (Fig. 1-20)
- (2) Disconnect any connectors.



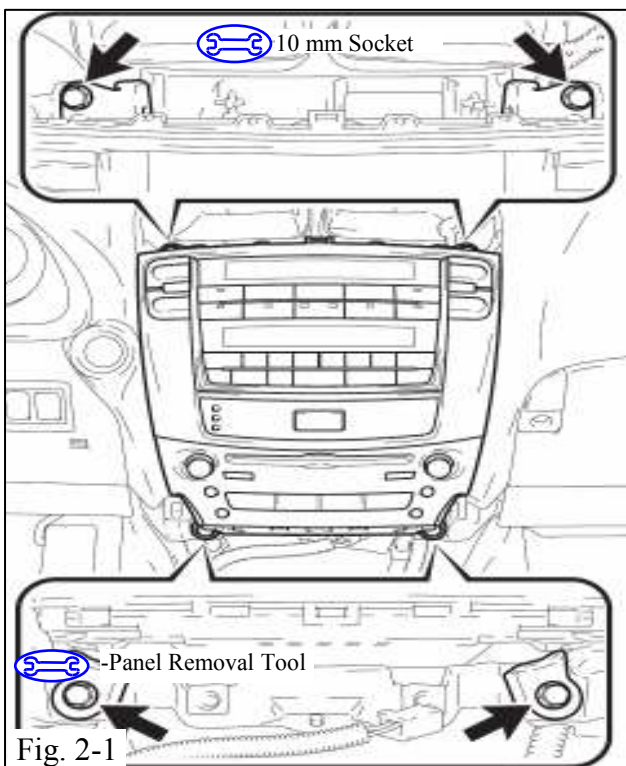
- (o) Remove Front Passenger Side Knee Airbag Assembly.
 - (1) Remove the 3 bolts and the airbag assembly. (Fig. 1-21)
 - (2) Do not disconnect the airbag connector.
 - (3) Place the airbag assembly on a soft cover on the floor.



NOTE: When handling the airbag assembly, take care not to damage the airbag wire harness.

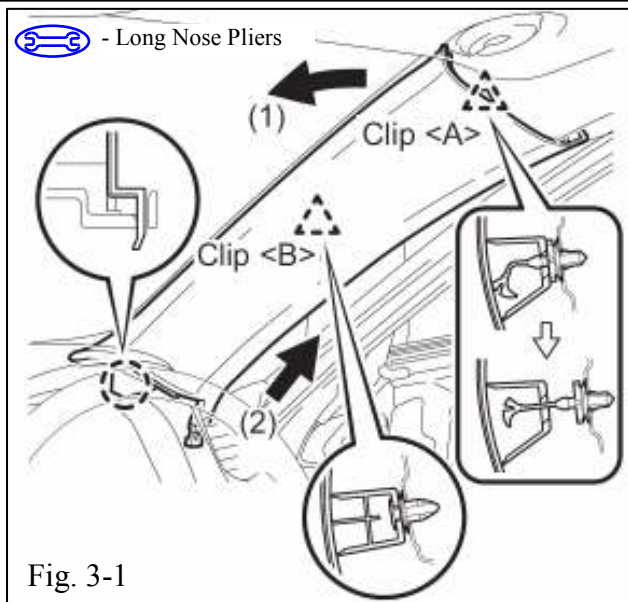


- (p) Remove Glove Box Assembly.
 - (1) Remove the 5 screws, and then pull outward to remove the glove compartment door as shown. (Fig. 1-22)
 - (2) Disconnect any connectors.
- (q) Temporarily reinstall the airbag assembly.




2. Loosen the Head Unit.

- (a) Remove the two (2) 10 mm bolts on top and the two (2) 10 mm bolts on the bottom. (Fig. 2-1)
- (b) Do not remove head unit.

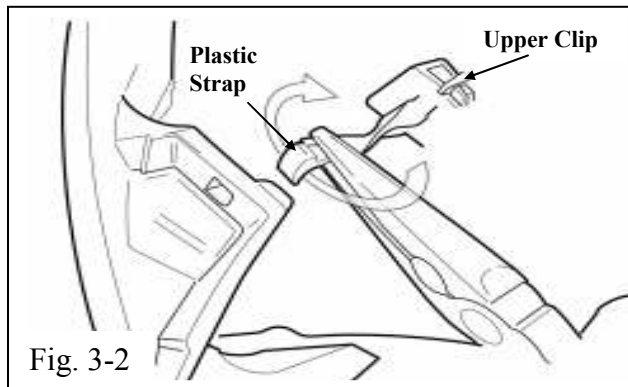


3. Remove the “A” Pillar Garnish.


(a) Insert a nylon removal tool under the garnish and pry outward to release both clips. (Fig. 3-1)

 (b) Using long nose pliers grab the plastic strap on the upper clip and turn it 90° to release it from the garnish as shown. (Fig. 3-1 & 3-2)

(c) Pull upward to remove garnish.




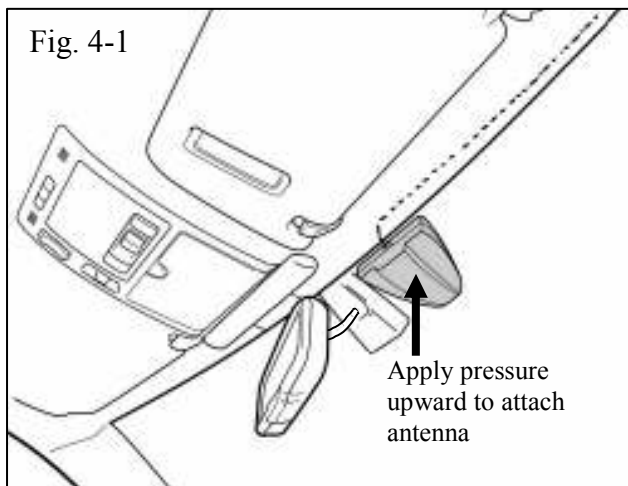
4. Install the Antenna.

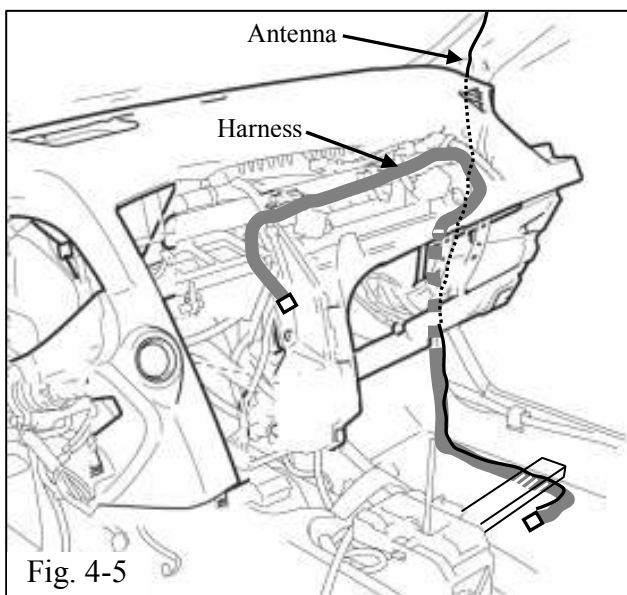
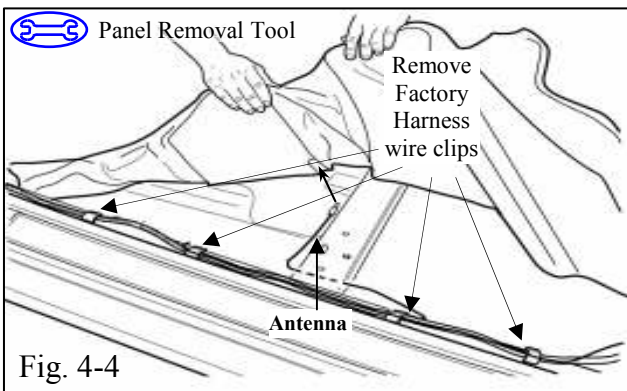
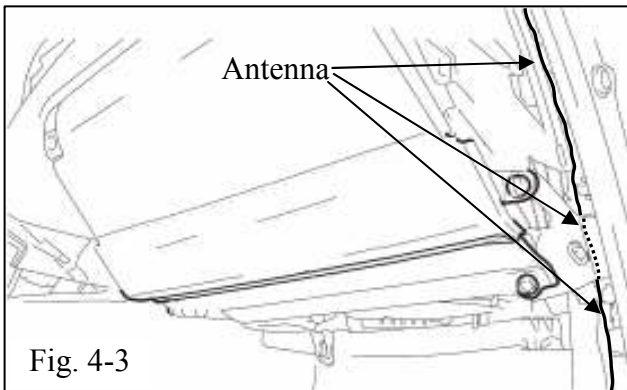
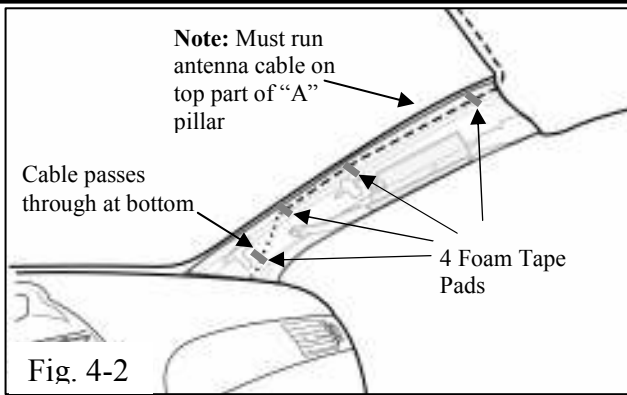
 **NOTE:** Mounting location must be completely dry & installation temperature must be between 60° - 100° F before mounting the tape pad.



(a) Clean the antenna mounting location just right of the mirror mount behind the rear view mirror with approved cleaner. (Fig 4-1)

(b) Remove the 2 release tabs from the back of the antenna, and place the antenna in the proper position 1 – 5 mm just right of the mirror mount behind the rear view mirror as shown. (Fig. 4-1)

 (1) By hand firmly apply pressure upward on the antenna to assure complete wet-out of the tape pads. (Fig. 4-1)

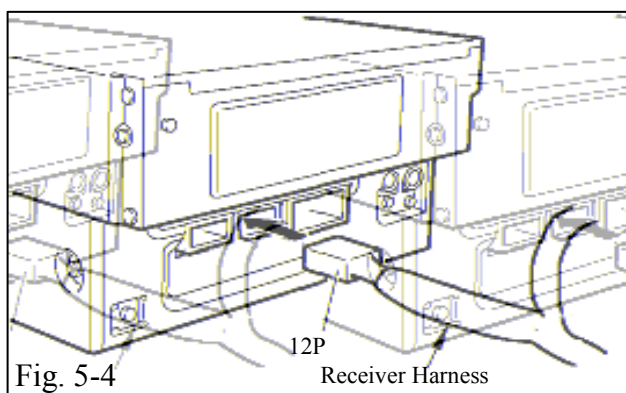
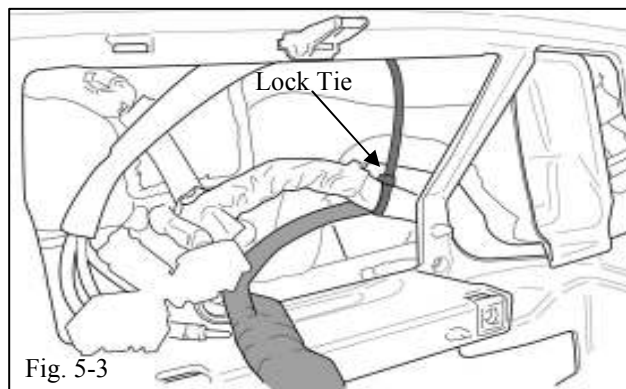
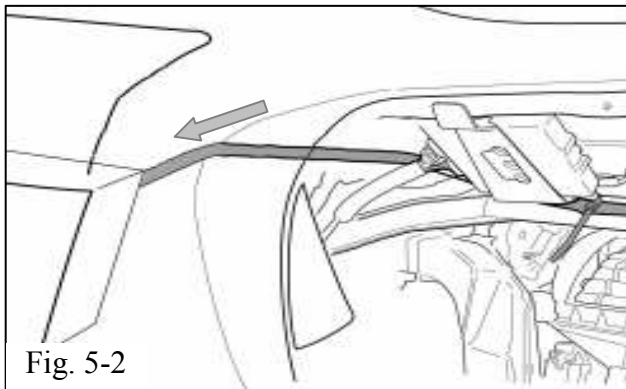
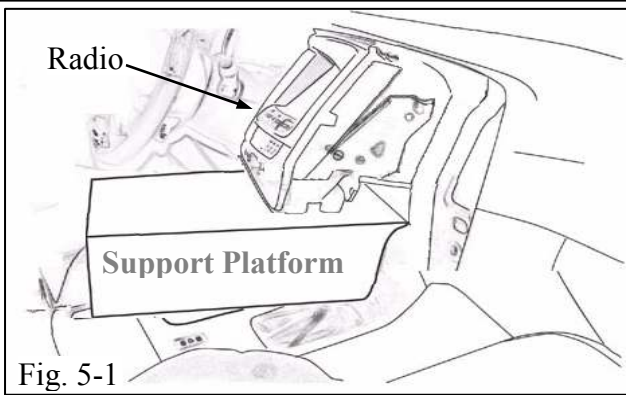






- (c) Route the antenna cable up underneath the front of the headliner as shown. (Fig. 4-2)
 - (1) By hand pull down the front of the headliner and position the antenna cable up underneath the headliner as shown.
 -  (2) Make sure the cable is located all the way at the top of the "A" pillar so it does not interfere with the air bag system.
 -  (3) Apply (4) 1/3 rd. pieces of foam tape as shown. Make sure the cable passes through the garnish at the bottom part of the "A" pillar so it does not interfere with the airbag system. (Fig. 4-2)
- (d) Continue routing the cable down behind the dash and down the "A" pillar in between the door seal & dash panel as shown. (Fig. 4-3)
- (e) Remove the vehicle Harness Clips.
 - (1) Using a forked shaped nylon removal tool pry upward on each of the harness clips and remove them so you will be able to lift up the carpet. (Fig. 4-4)
- (f) Continue routing the antenna cable under the carpet on the floor next to the door opening.
- (g) After the seat is moved in step 6 the cable will continue under the carpet through the opening in the cross member & out the opening in the carpet for the heater duct to where the receiver module will be installed. (Fig. 4-4 & 4-5)

5. Install and Route the Receiver Harness.

- (a) Install and route the receiver harness behind the dash from the center cluster and along the front support bar. (Fig. 4-5)



 (1) Gently pull out the radio cluster in order to access the plug-in location and rest on a support platform to prevent scratching of dash panels. (Fig. 5-1)

 **NOTE:** Be careful not to put too much tension on the radio wire harness when pulling out the radio.

(2) Route the receiver harness through the opening in the glove box up to the back of the radio as shown. (Fig. 5-2)


(3) Make sure you provide sufficient cable slack to connect to the audio head unit as shown. Adjust the slack of the cable to match slack of other cables.

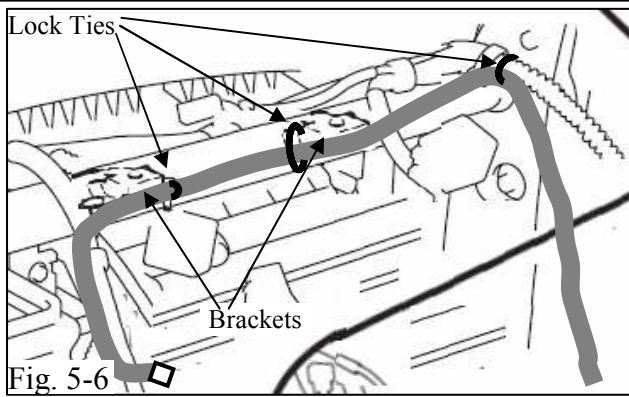
(4) Install lock tie as shown. (Fig. 5-3)

(5) Connect the receiver harness to the audio unit. (Fig. 5-4)

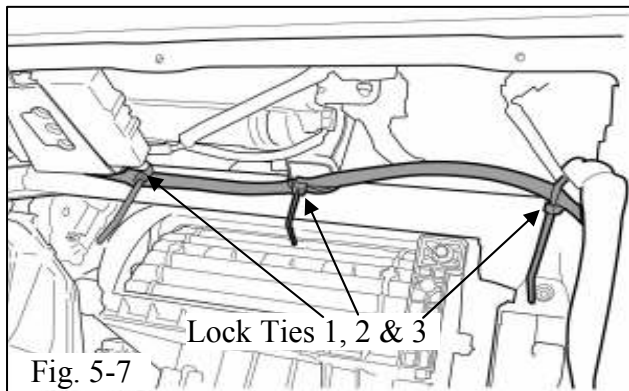
NOTE: There already may be a factory connector in this location. The factory connector should be removed and plugged into the other end of the “Y” on the receiver harness.

(6) Place the radio cluster back into position.

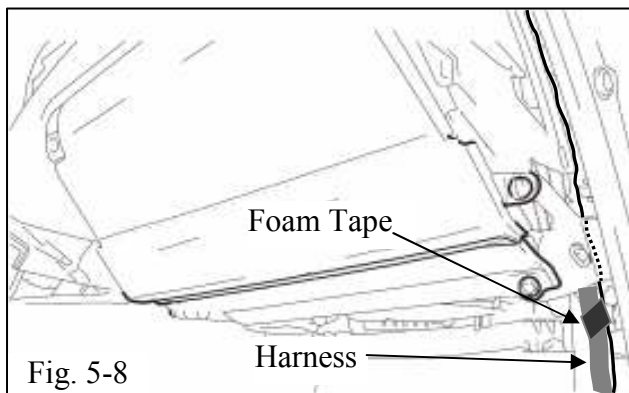
 (7) Be careful not to crimp any of the factory harnesses or the receiver harness when replacing the radio.



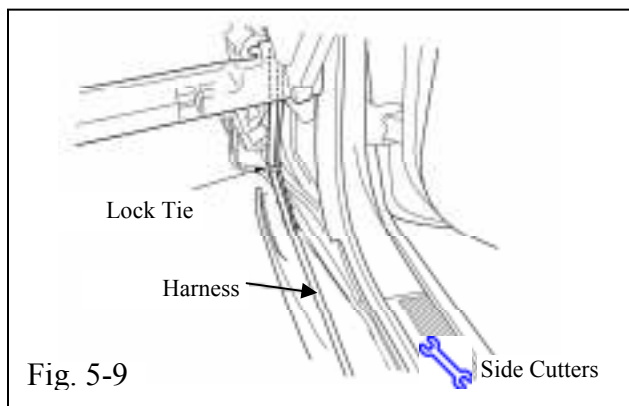
- (8) Route & secure the receiver harness along the cross member behind the dash toward the passenger side. (Fig. 5-6)
- (9) Install 1st lock tie to small bracket on the cross member as shown. (Fig. 5-6 & 5-7)
- (10) Install 2nd lock tie to larger center bracket on the cross member as shown. (Fig. 5-6 & 5-7)
- (11) Install 3rd lock tie to vehicle harness on far right side of cross member as shown. (Fig. 5-6 & 5-7)

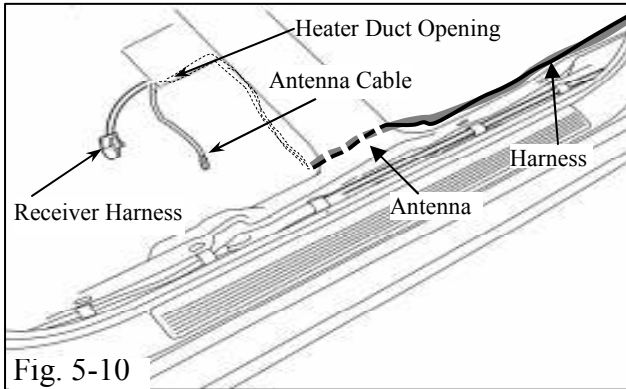


- (b) Route the receiver harness down alongside antenna cable as shown.
- (c) Secure with foam tape as shown. (Fig. 5-8)

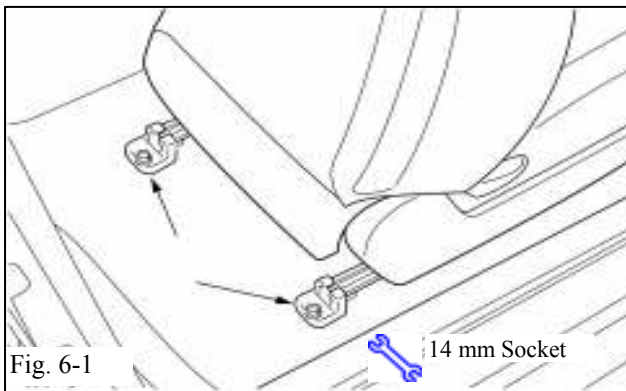


- (d) Route the receiver cable down on the floor along the doorsill & add Lock Tie as shown. (Fig. 5-9)



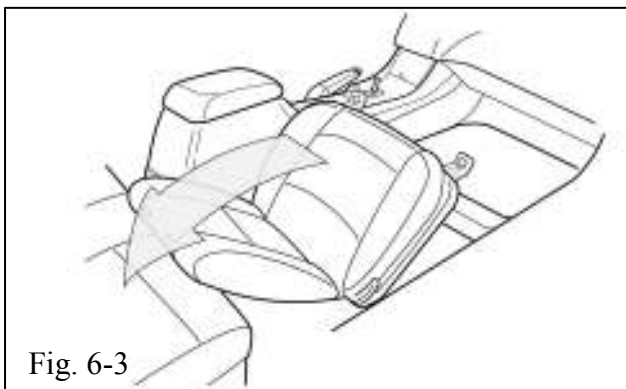
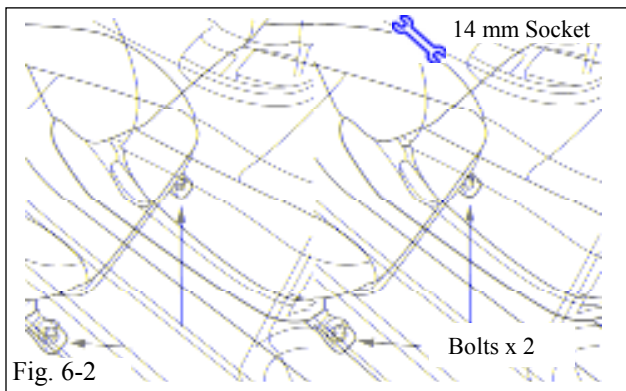



- (e) After the seat is moved in step 6 the harness will continue under the carpet through the opening in the cross member & out the opening in the carpet for the heater duct to where the receiver module will be installed. (Fig. 5-10)




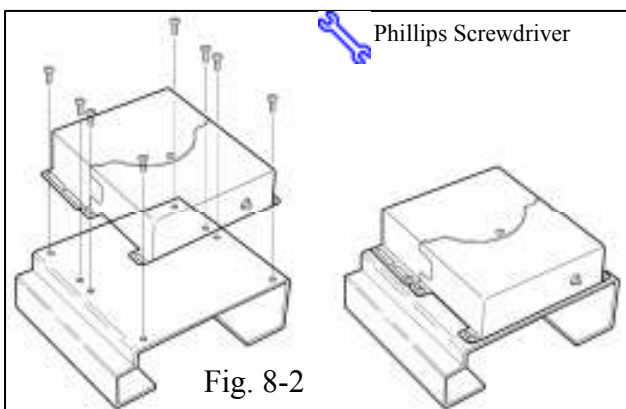
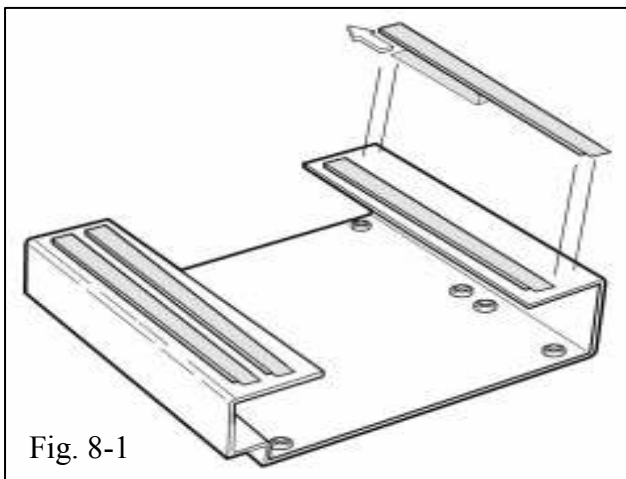
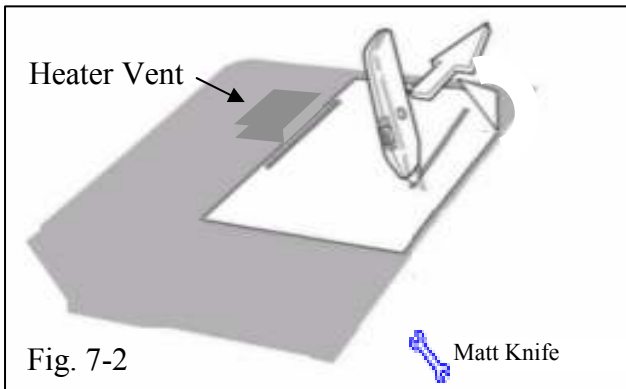
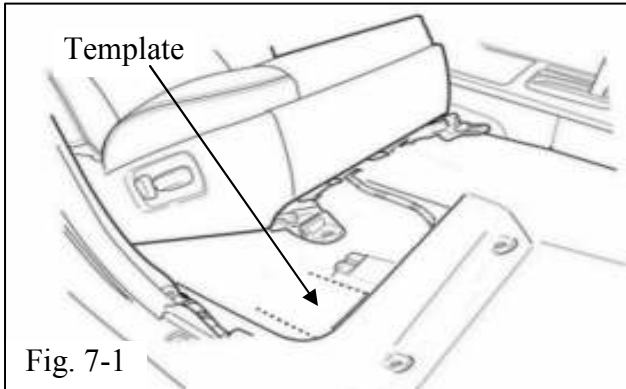
6. Access the Receiver Mounting Location.

- (a) Protect the center console area before loosening the seat.
- (b) Slide the seat forward and remove the two (2) plastic covers on the rear seat rails. Remove the two (2) bolts under the plastic covers. (Fig. 6-1)
- (c) Slide the seat backwards and remove the two (2) plastic covers on the front seat rails. Remove the two (2) bolts that hold the front end of the seat rails. (Fig. 6-2)




-  (d) Tilt the seat back being careful not to put too much tension on the wire harness connected under the seat. (Fig. 6-3)
- (e) Position the seat so it remains tilted back to access the receiver mounting area. (Fig. 6-3)

 **NOTE:** Be careful not to damage the seat or put too much tension on the seat wire harness when tilting the seat in the vehicle.



7. Cut Carpet.

- (a) Position the carpet-cutting template on the floor under the passenger seat next to the heater vent as shown. (Fig. 7-1)

 NOTE: Make sure there are no wires under the carpet where the cuts will be made.


- (b) Using a carpet cutting knife cut the carpet and insulator pad all the way through to the floor. (Fig 7-2)

- (1) Cut the full length along the cutting lines on the template.
- (2) Make sure the carpet and insulator pad is cut all the way through to the floor the full length of the cut lines.

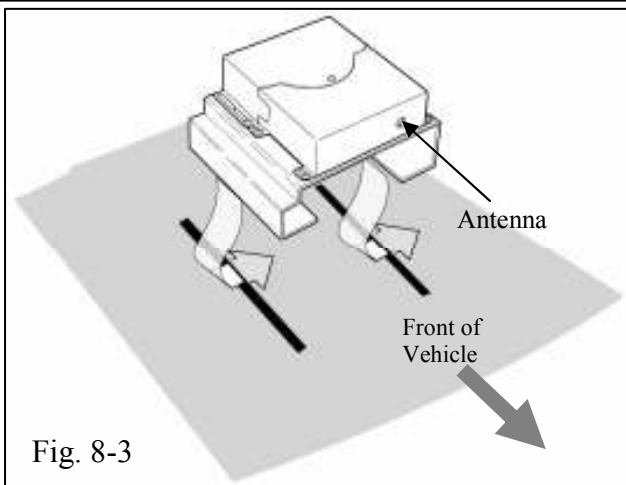
NOTE: Installer may choose to cut an additional 1/2" longer cut in order to ease installation of the bracket.

8. Install the Receiver.

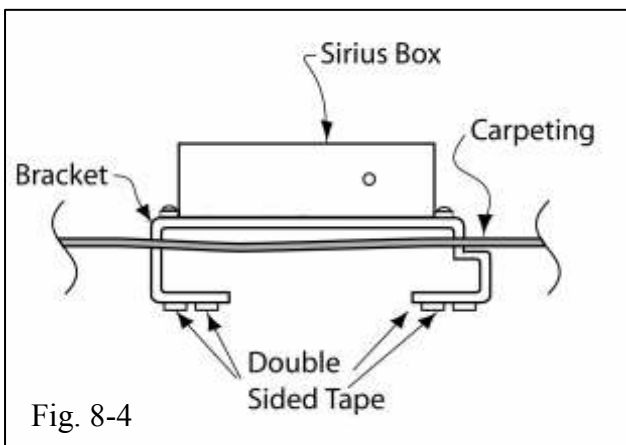
- (a) Apply 4 pieces of double sided tape onto the bracket as shown. (Fig. 8-1)

 Note: All tape mounting surfaces must be clean, completely dry and installation temp must be between 60° - 100° F.

- (b) Install the receiver onto the bracket using the 8 screws supplied in the kit. (Fig. 8-2)



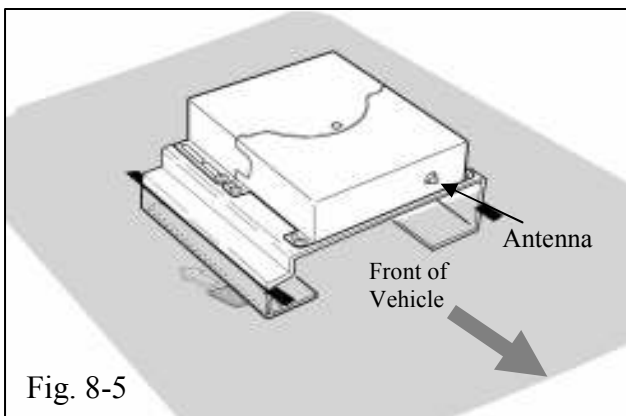
(c) Place the bracket/receiver assembly through the carpet as shown (Fig. 8-3)



(1) Make sure the bracket goes all the way through the carpet so that the feet can be mounted to the floor pan. (Fig. 8-4)

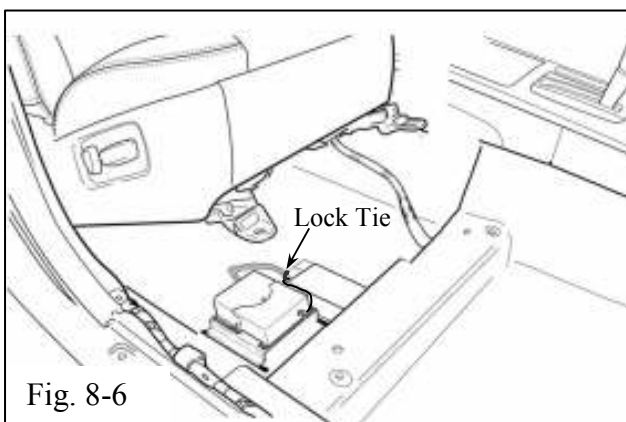
⚠Note: Make sure the mounting surface is clean, completely dry and installation temp must be between 60° - 100° F.

(d) Remove the 4 release tabs from the bottom of the bracket and mount the bracket to the floor pan. (Fig. 8-5)

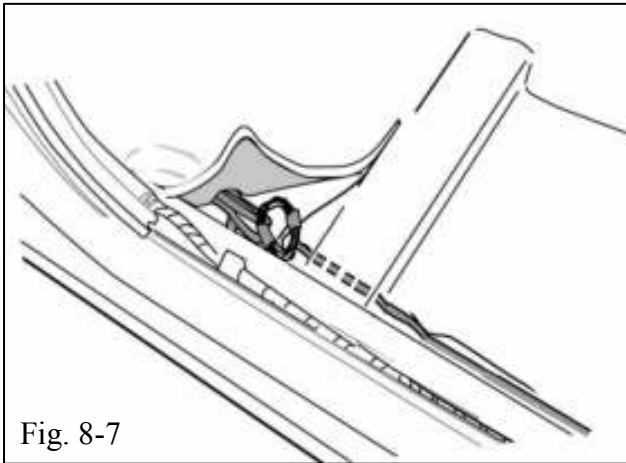


(1) Make sure the bracket is firmly attached to the floor pan by firmly applying pressure down on the receiver/bracket assembly.

(e) Plug the connector and antenna into the receiver module. (Fig. 8-5 & 8-6)



(1) Tape the antenna cable down to the bracket with a piece of foam tape and lock tie the harness and antenna together as shown. (Fig. 8-6)



- (f) Bundle up and secure any excess harness or antenna cable. (Fig. 8-7)
 - (1) Bundle up & lock tie extra harness.
 - (2) Coil up and place foam tape on extra antenna cable.
 - (3) Place extra harness and cable under the carpet as shown.



NOTE: Clip all lock ties after tightening

9. Retighten the Radio/Player Head Unit.

- (a) Re-install the four (4) screws.

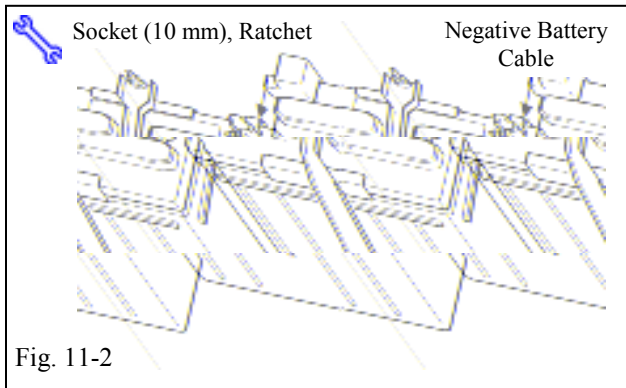
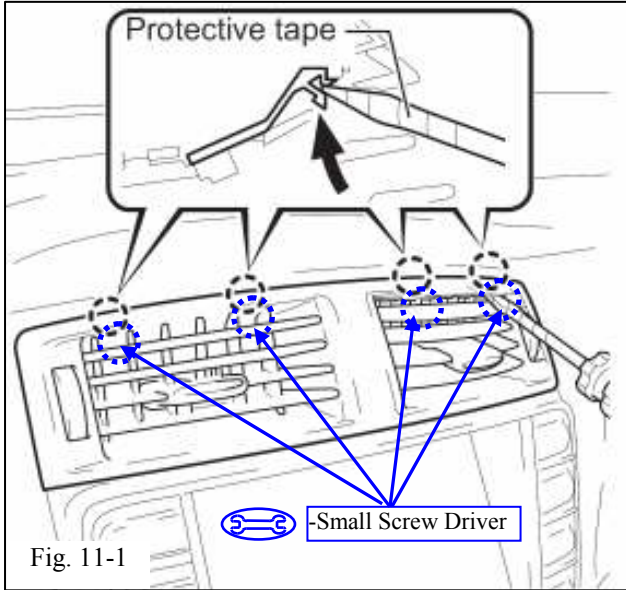
10. In Process Functional Test.

- (a) Temporarily reconnect battery negative cable.
- (b) Turn ignition key to ACC position.
- (c) Press the power button on the receiver/player head unit. Verify the backlighting illuminates.
- (d) Press and release the "SAT" button on the head unit.
 - (1) Verify that a satellite channel is received, or a "NO SIGNAL" message appears on the display.

NOTE: If "ANTENNA" appears (flashing) on the display - then one or both of the antenna cables are disconnected from the satellite tuner.

NOTE: If the head unit will not tune or go into satellite mode - then the tuner cable is disconnected from the satellite tuner.

- (e) Disconnect battery negative cable.



11. Reassemble Vehicle

(a) Re-install the front seat

(1) Reinstall the bolts loosely, then tighten them.



(2) Tighten bolts to 40 N-m (30 lbf-ft)

(3) Reconnect any disconnected connectors.

(b) Reassemble Vehicle in opposite order that it was disassembled.



NOTE: When replacing the Upper Vents Trim Piece make sure the 4 top clips are returned to their original upward position. (Fig. 11-1)

(c) Reconnect the negative terminal back to its original position. (Fig. 11-2)



(1) Tighten the nut with 4.1 N-m (36 lbf-in) of torque.



(2) Be careful not to touch the positive battery terminal.

(d) Clean up and remove any trash.



(e) Place the owner "SIRIUS Satellite Radio" brochure in the glove box.

Checklist - these points **MUST** be checked to ensure a quality installation.

<u>Check:</u>	<u>Look For:</u>
<p><u>Accessory Function Checks</u></p> <p><input type="checkbox"/> Satellite Radio Tuner.</p> <p><input type="checkbox"/> Receiver/player Assembly.</p>	<p>*Verify the proper operation of the Satellite Radio Tuner.</p> <p>*Verify the proper operation of the Receiver/player Assembly</p> <p>*(Refer to the receiver assembly and radio owner's manuals.)</p>
<p><u>Vehicle Function Checks</u></p> <p><input type="checkbox"/> Hazard switch.</p> <p><input type="checkbox"/> HVAC.</p> <p><input type="checkbox"/> Multi-information displays.(Clock, Temp., and MPG meter)</p> <p><input type="checkbox"/> Operation of the L&R seat heater switch.</p> <p><input type="checkbox"/> Operation of the 12V outlet switch.</p> <p><input type="checkbox"/> NAV Antenna Functioning.</p>	<p>Proper operation of the hazard switch.</p> <p>Proper operation of the air conditioning system.</p> <p>Verify the proper operation of the multi-information displays.</p> <p>Verify the proper operation of the L&R seat heater switch.</p> <p>Verify the proper operation of the 12V outlet switch.</p> <p>Confirm navigation operation by AVN diagnostics.</p>