

Part Number: PTS31-47060

Kit Contents

Item #	Quantity Reqd.	Description
1	1	Antenna, Exterior
2	1	Receiver Bracket
3	1	Wire Harness
4	4	Hardware Bags
5	1	SIRIUS Satellite Radio Brochure

Hardware Bag Contents - 1

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

Hardware Bag Contents - 2

Item #	Quantity Reqd.	Description
1	8	6-32 Nuts

Hardware Bag Contents - 3

Item #	Quantity Reqd.	Description
1	3	M5 x 10 mm Screws

Hardware Bag Contents - 4

Item #	Quantity Reqd.	Description
1	1	Antenna wire protective cover

Conflicts

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Recommended Tools

Personal & Vehicle Protection	Notes
Safety Goggles	
Seat Covers	
Floor Protectors	
Non Intrusive IR Temperature Probe Gun	
Special Tools	Notes
None	

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

Installation Tools	Notes
Ratchet	
Extension	
Sockets	10 mm, 12 mm, 8 mm
Drill Motor	
Drill Bit	5 mm
Deburring Tool	
Screwdriver	Phillips, #2
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Torque Wrench	
Side Cutter	
Pencil	
Center Punch	
Needle Nose Pliers	
Special Chemicals	Notes
Cleaner	Approved Cleaner
3M Body Sealant	

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.

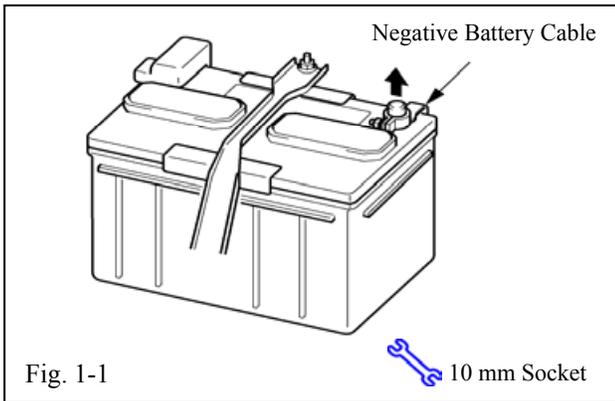
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

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.

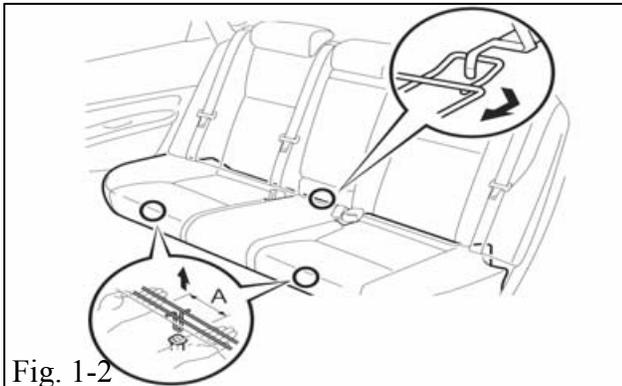


1. Vehicle Disassembly.

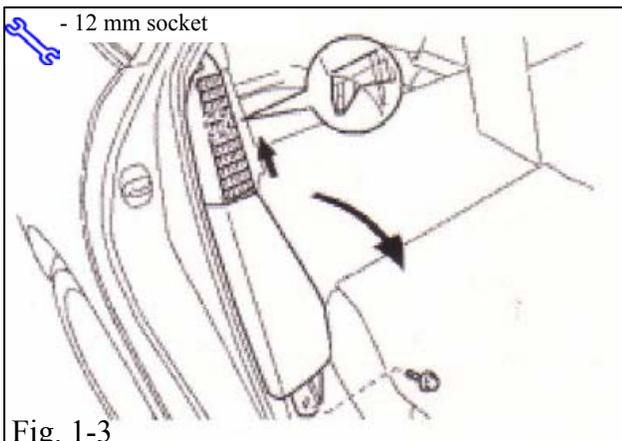
- (a) Open rear hatch
- (b) Lift trunk shelf to access battery.
- (c) Remove the negative battery cable.
(Fig. 1-1)



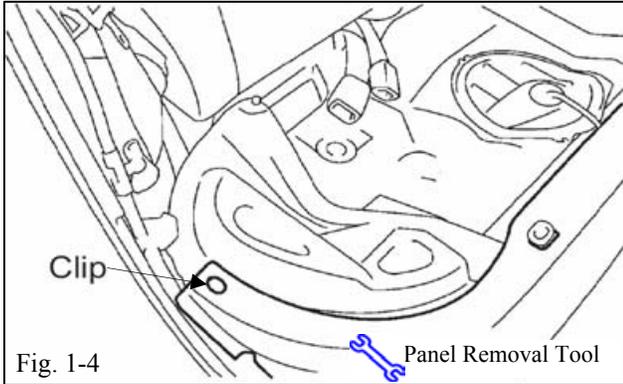
- (1) Protect rear hatch entry before starting.
- (2) Set the parking brake prior to disconnecting the battery.



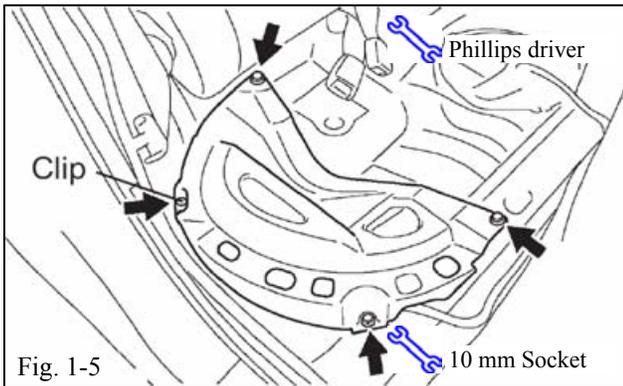
- (3) Do not touch the positive terminal with any tool when removing cable.
- (d) Rear seat access.
 - (1) Using both hands pull up on each front clip to disengage the seat. (Fig. 1-2)
 - (2) Detach the rear center hook and remove the rear seat. (Fig. 1-2)



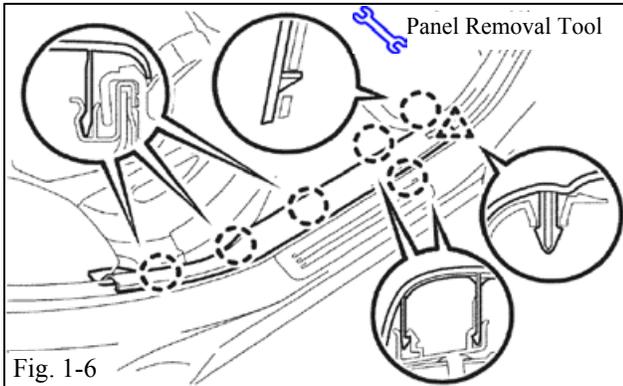
- (e) Remove right rear door seat panel.
 - (1) Using a 12 mm socket loosen & remove the bottom bolt as shown. (Fig. 1-3)
 - (2) By hand push up on the panel and then pull out to remove as shown. (Fig. 1-3)



- (f) Remove the RH floor cover.
 - (1) Remove the clip, then roll back the carpet to access the mounting bolts. (Fig. 1-4)

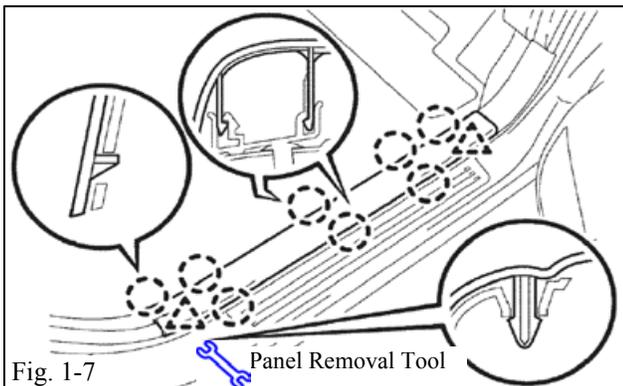


- (2) Remove the plastic clip. (Fig. 1-5)
 - (3) Remove the 3 bolts and then remove the cover. (Fig. 1-5)

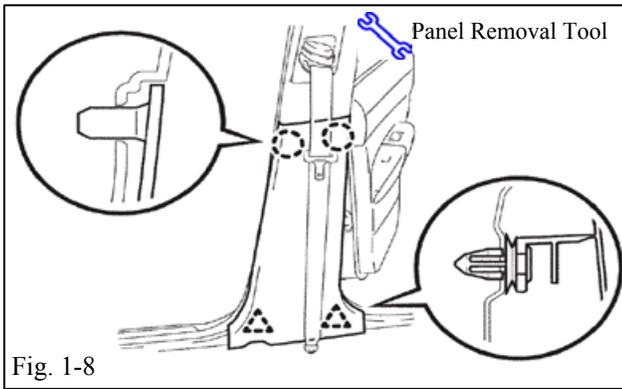


- (g) Remove rear passenger side doorsill.
 - (1) Using a panel removal tool disengage the 6 claws and 1 clip to remove the doorsill. (Fig. 1-6)

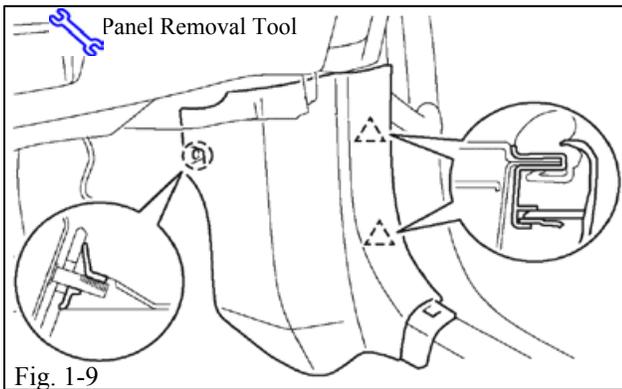
NOTE: If a clip remains on the vehicle, remove it and replace it into the plastic doorsill cover.



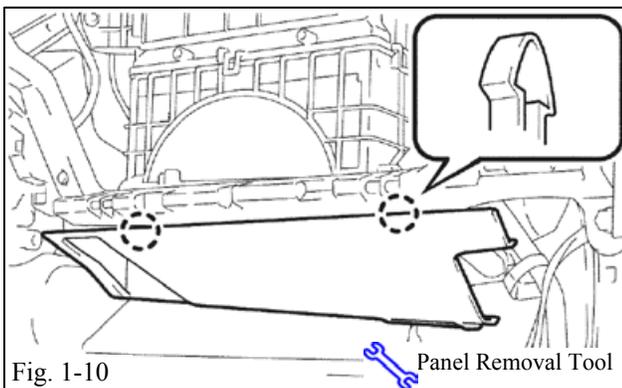
- (h) Remove the front passenger side doorsill
 - (1) Using a panel removal tool disengage the 8 claws and 2 clips to remove the doorsill. (Fig. 1-7)



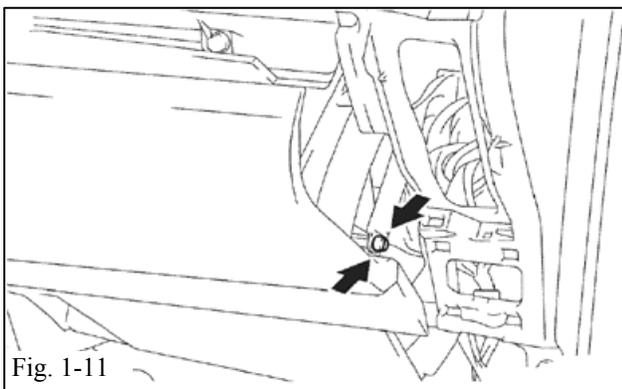
- (i) Remove the right side “B” pillar trim.
(Fig. 1-8)
 - (1) Using a panel removal tool release the 2 clips & 2 claws and remove the panel.



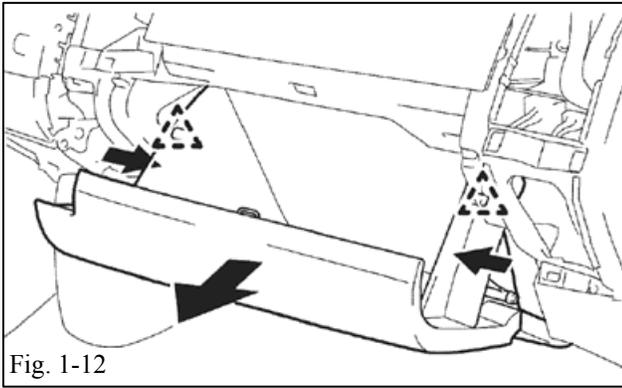
- (j) Remove cowl cover. (Fig. 1-9)
 - (1) Detach the claw and 2 clips and remove the cover.



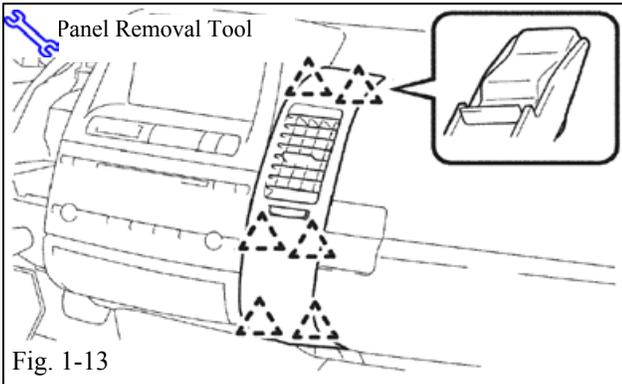
- (k) Remove panel under glove box.
 - (1) Detach the 2 claws and remove the panel.
(Fig. 1-10)



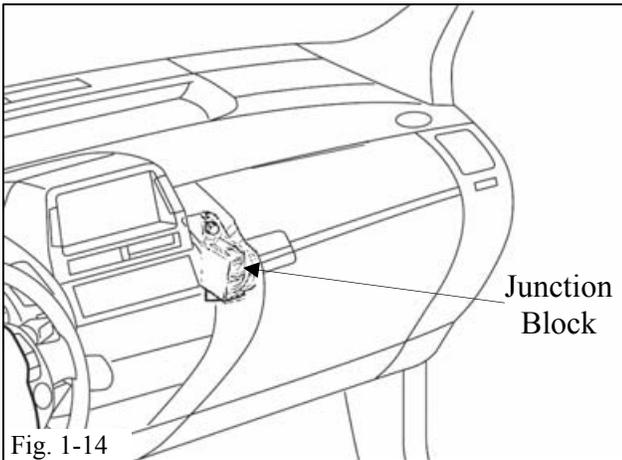
- (l) Remove the glove box.
 - (1) Open the glove box.
 - (2) Disconnect the damper. (Fig. 1-11)



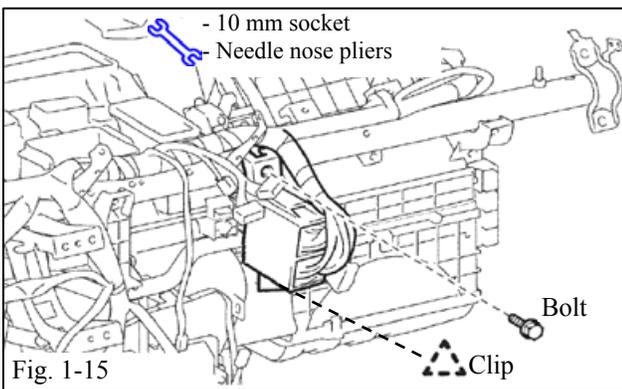
- (3) Push inward on each side to release the 2 stoppers. (Fig. 1-12)
- (4) Pull the glove box straight back to detach the 2 hinges and remove. (Fig. 1-12)



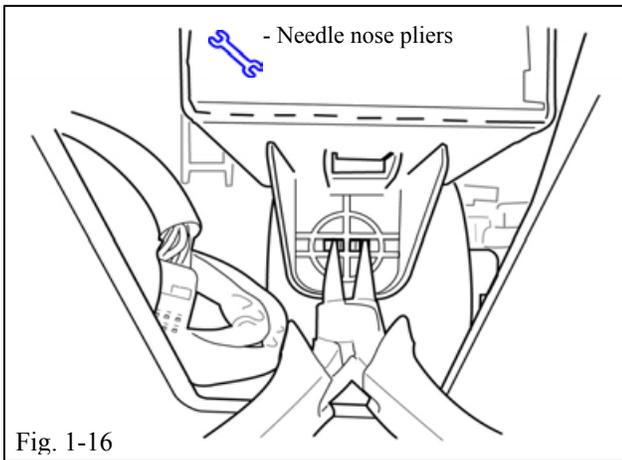
- (m) Remove the right instrument panel register.
- (1) Detach the 6 clips and remove the IP register. (Fig 1-13)



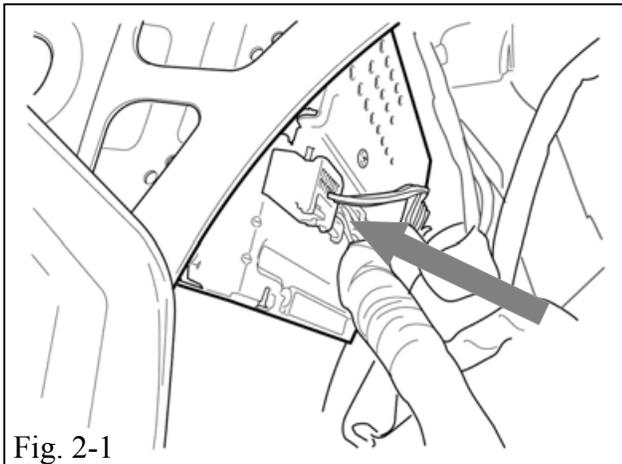
- (n) Loosen the junction block behind the register. (Fig. 1-14 & 1-15)



- (1) Using a 10 mm socket remove the top bolt. (Fig. 1-15)

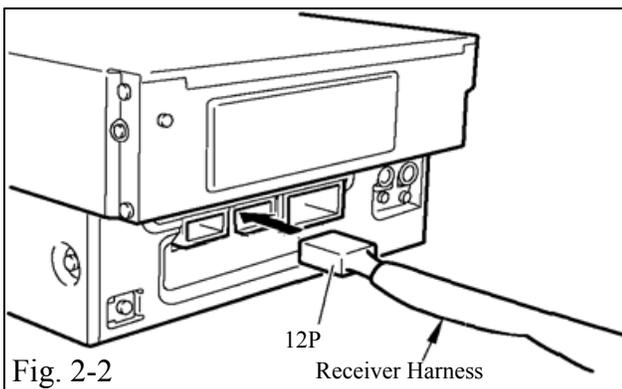


- (2) Using small needle nose pliers squeeze the clip & pull out on the junction block. (Fig. 1-15 & 1-16)
- (3) Move junction block out of the way to access the back of the radio.

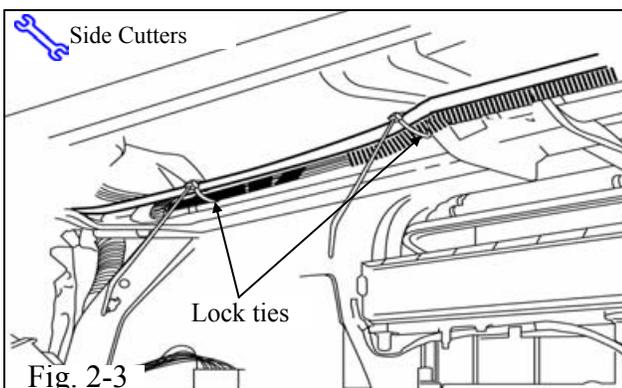


2. Installation of the Receiver Cable.

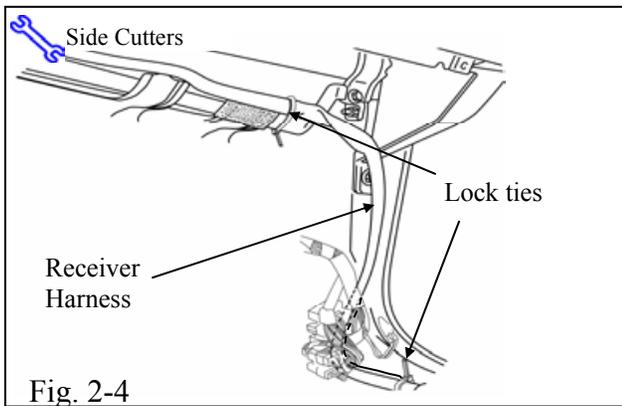
- (a) Route the receiver cable through the glove box and towards the back of the radio as shown. (Fig. 2-1)
- (b) Reach back to the back of the radio and plug in the receiver harness connector as shown. (Fig. 2-1 & 2-2)



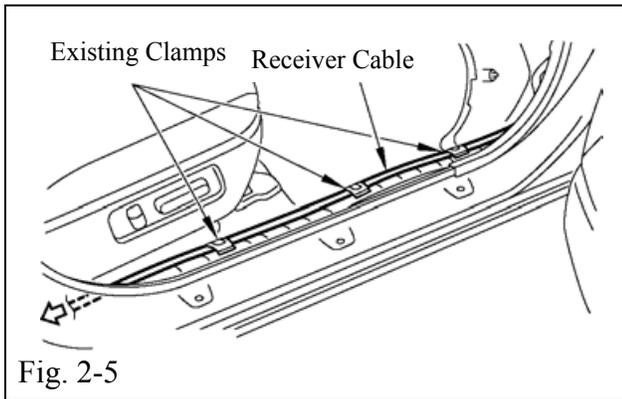
Note: Radio does not need to be removed to install harness connector.



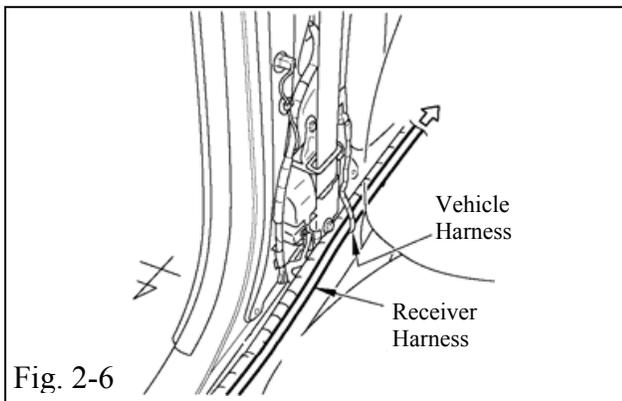
- (c) Continue running the harness to the right side of the vehicle along the vehicle harness just in front of the cross member as shown. (Fig. 2-3)
- (1) Lock tie receiver harness to vehicle harness as shown. (Fig. 2-3)



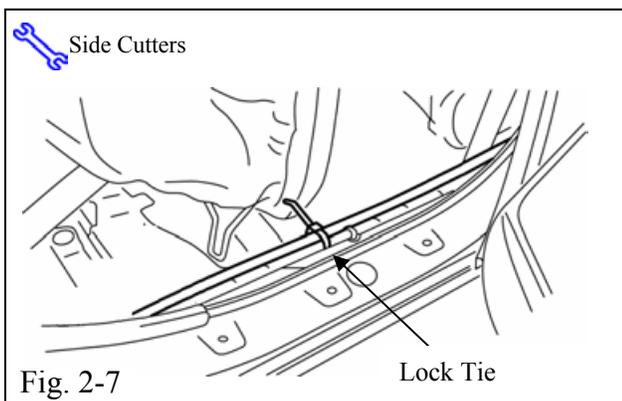
(d) Continue across then down the “A” pillar and secure the harness with two (2) lock ties as shown. (Fig. 2-4)



(e) Route the receiver harness along the doorsill through the existing harness clamps as shown. (Fig. 2-5)



(f) Route the receiver harness along the “B” pillar behind the vehicle harness as shown. (Fig. 2-6)



(g) Continue routing the cable along the rear door opening to where the receiver will be installed as shown. (Fig. 2-7 & 2-8)
(1) Install lock tie as shown.

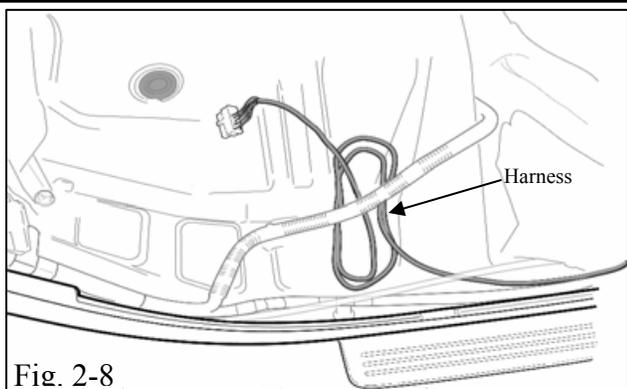


Fig. 2-8

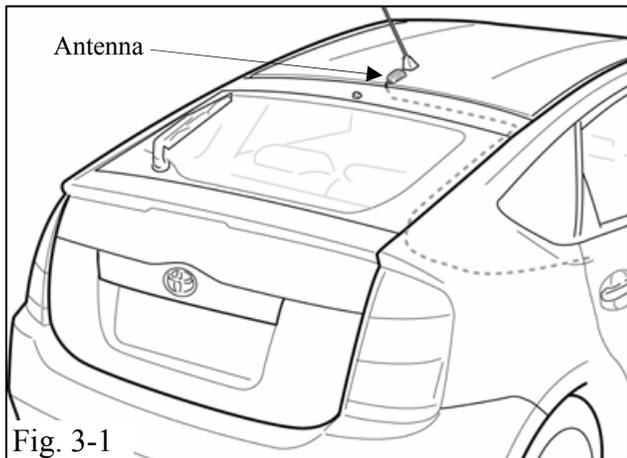


Fig. 3-1

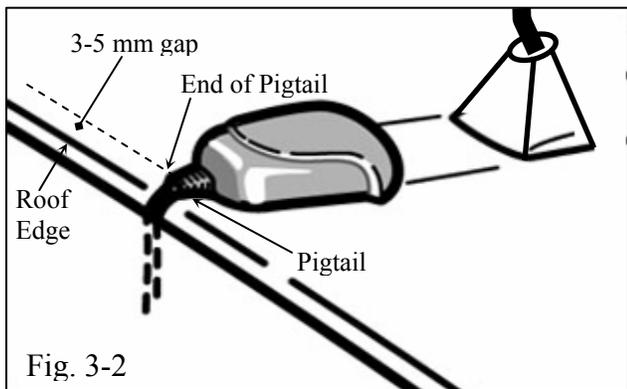


Fig. 3-2

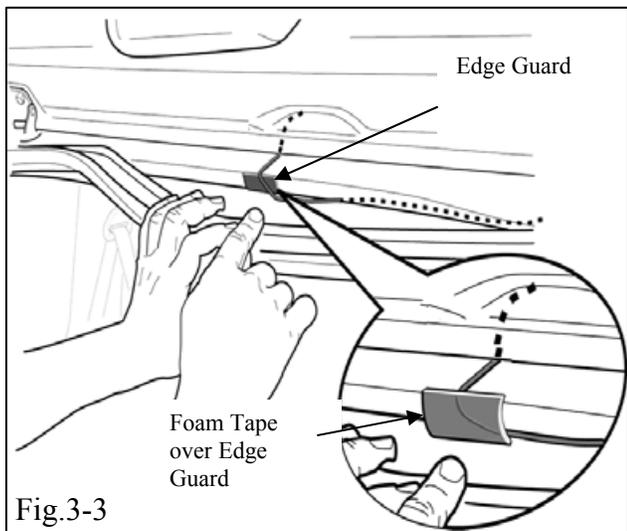


Fig. 3-3

(2) Run harness under the rear washer fluid line and secure under the main wire harness as shown. (Fig. 2-8)

3. Install the Antenna.

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

(a) Center the antenna directly behind the radio antenna in the center of the roof as shown. (Fig. 3-1 & 3-2)

(1) Remove the protective cover from the bottom of the antenna and place the antenna in position as shown. (Fig. 3-1)

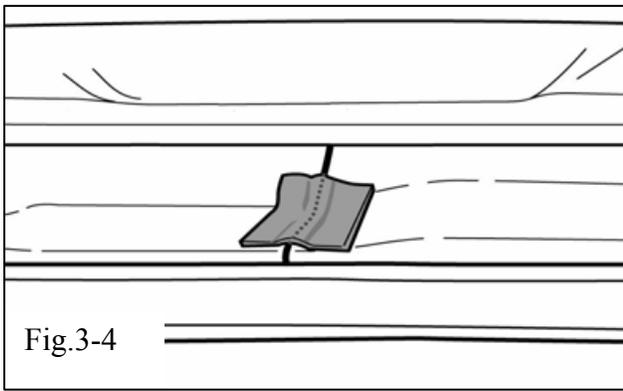
! (2) In order to prevent the rear door from interfering with the pigtail on the antenna make sure there is approximately a 3-5mm gap between the end of the pigtail on the antenna and the roof edge as shown. (Fig. 3-2)

(b) Route the antenna wire through the rear hatch opening as shown. (Fig. 3-2 & 3-3)

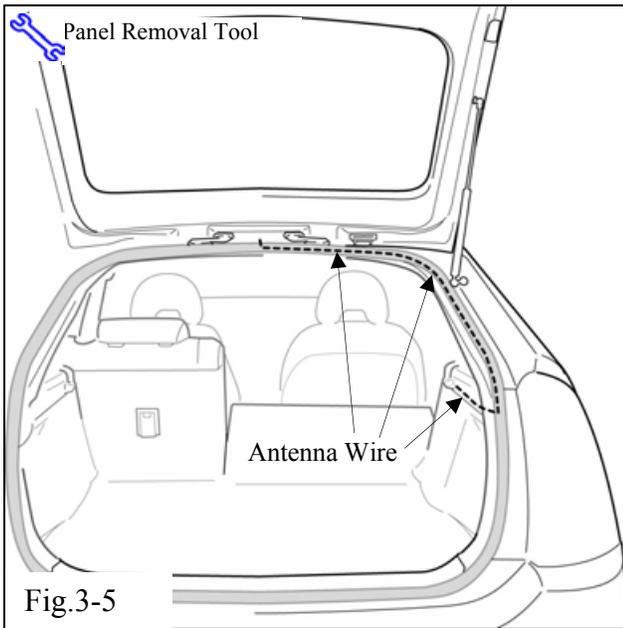
(c) Pull back the rubber door seal and install the Edge Guard provided in the kit over the door opening as shown. (Fig. 3-3)

! (d) Route the antenna wire diagonally over the Edge Guard and then place a piece of foam tape over the antenna wire as shown. (Fig. 3-3)

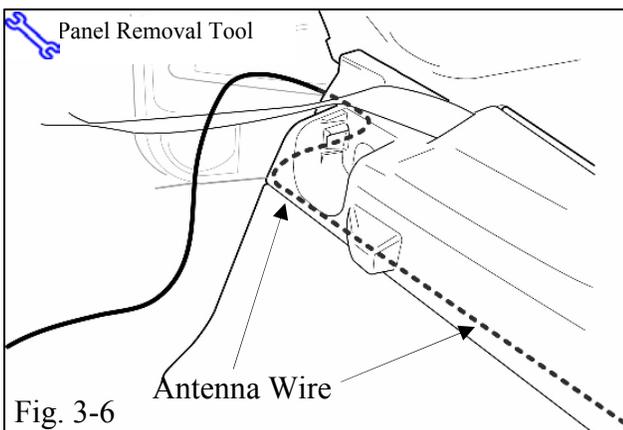
(1) Replace the rubber door seal.



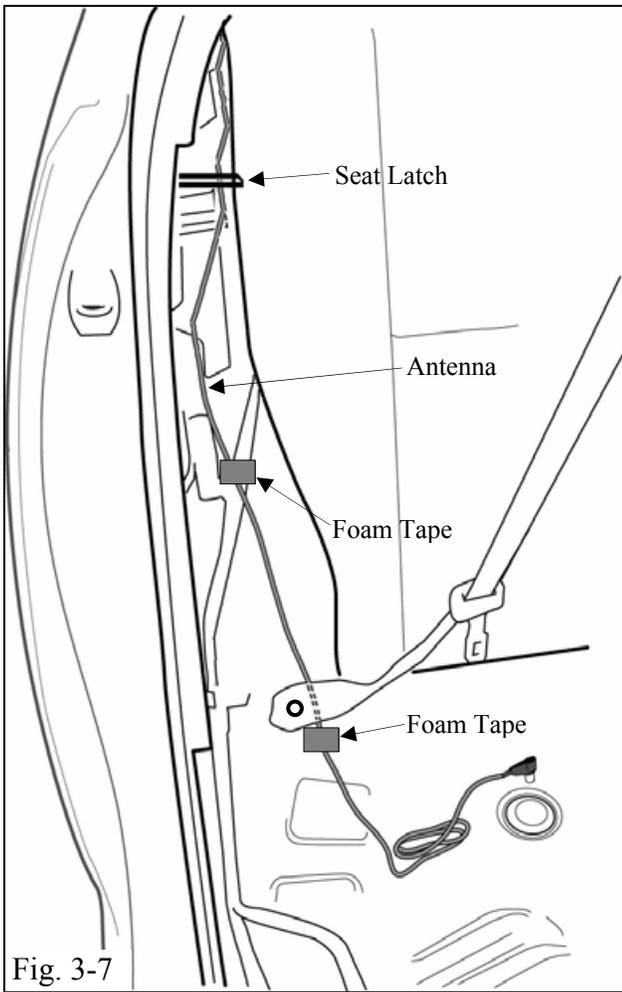
- (e) Clean surface with approved cleaner and place a piece of foam tape over the antenna wire in the top of the door opening as shown. (Fig. 3-4)
- (f) Route the antenna wire under the headliner toward the right side of the vehicle and down the window as shown. (Fig. 3-5)



- (g) Using a panel removal tool insert the antenna wire behind the right rear side quarter panel as shown. (Fig. 3-5 & 3-6)



- (h) Continue routing the antenna wire toward the front of the car and down the rear door opening as shown. (Fig. 3-6 & 3-7)



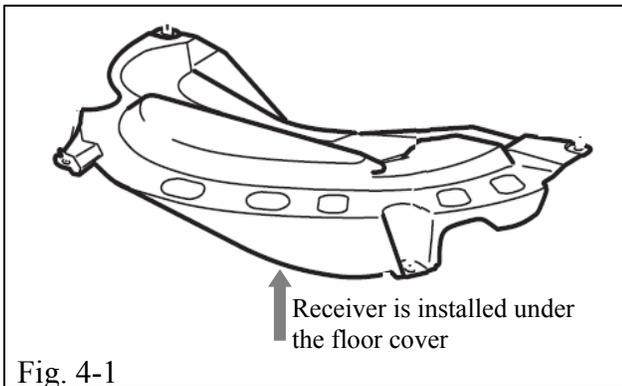
(i) From the right rear passenger seat area continue routing the wire down the door opening. (Fig. 3-7)



(1) Make sure you route the wire behind the rear passenger seat latch as shown. (Fig. 3-7)

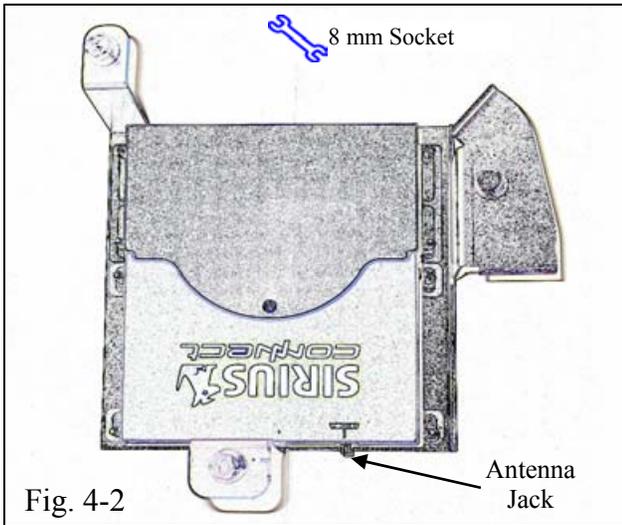
(2) Make sure you route the wire behind the seat belt mount as shown. (Fig. 3-7)

(3) Apply 2 pieces of foam tape as shown. (Fig. 3-7)



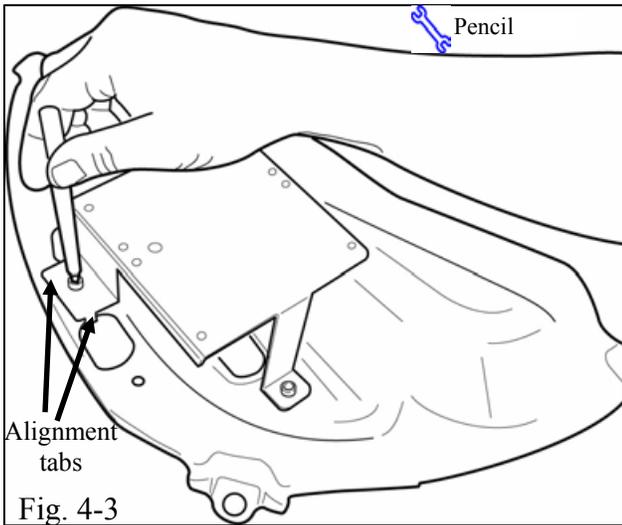
4. Install the Receiver.

(a) The receiver will install on the passenger side under the rear seat on the bottom side of the floor cover that was removed in step D. (Fig. 4-1)



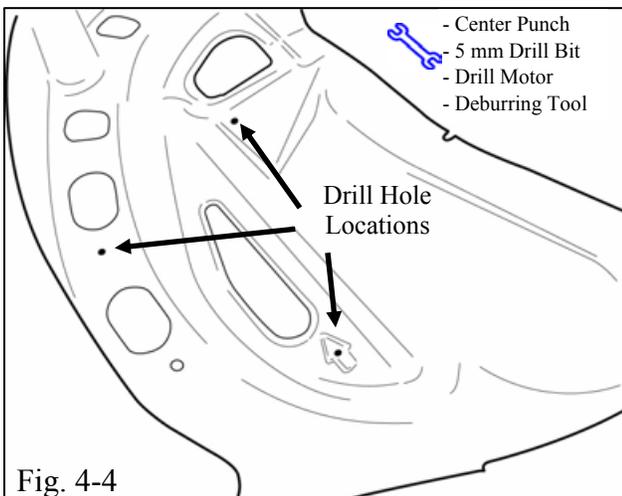
(b) Install the receiver onto the bracket.
(Fig. 4-2)

- (1) Position the receiver onto the bracket as shown. Note the location of the antenna jack. (Fig. 4-2)
- (2) Using the 8 nuts supplied in the kit, attach the receiver to the bracket. (Fig. 4-2)

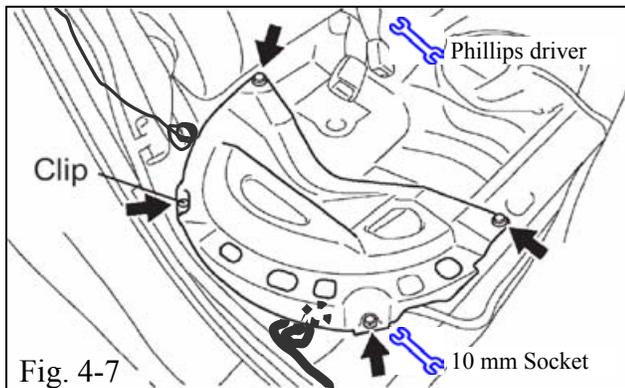
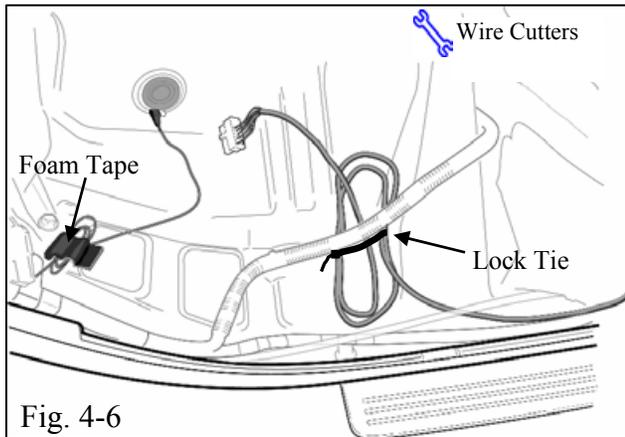
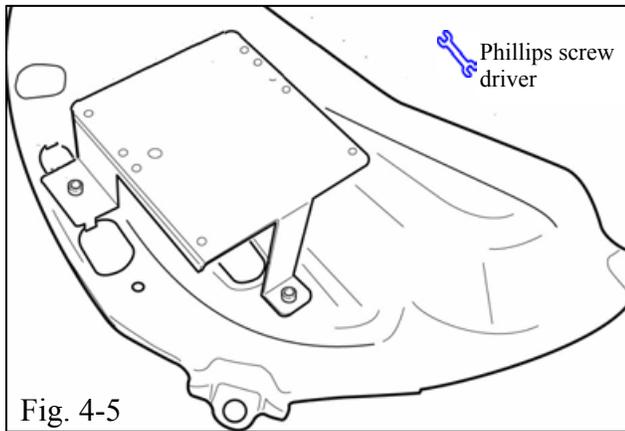


(c) Attach the receiver & bracket assembly under the vehicle floor cover. (Fig. 4-3)

- (1) Turn the floor cover upside down.
- (2) Place the bracket with the 2 alignment tabs into the openings in the floor cover as shown. (Fig. 4-3)
- (3) Mark the 3 hole locations as shown. (Fig. 4-3 & 4-4)



- (4) Using a center punch, punch the center of all 3 hole locations.
- (5) Using a 5 mm drill bit, drill out the 3 hole locations. (Fig. 4-4)
- (6) Debur all 3 hole locations with debur tool.
- (7) Apply 3M body sealant to drilled holes.



(8) Using the 3 screws supplied in the kit, place the bracket & receiver assembly back into position and screw the bracket to the floor cover as shown. (Fig. 4-5)

(d) Coil up and secure any extra receiver harness or antenna cable with foam tape and lock tie as shown. (Fig. 4-6)

Note: Make sure you leave enough slack in both the receiver harness and antenna cable so that you can plug them both into the receiver when the receiver and floor cover assembly are put back into place.

(e) Plug the receiver harness and antenna cable into the receiver.

(f) Reinstall the floor cover into the vehicle. (Fig. 4-7)

(1) Make sure the floor cover does not interfere with the receiver or antenna cables.

STOP NOTE: **Clip all lock ties before reassembly.**

5. 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 the antenna cable is 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.

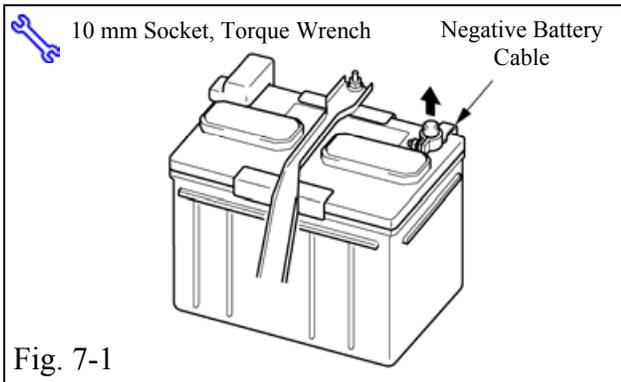
(e) Disconnect battery negative cable.

6. Complete the Reassembly of the Vehicle.

- (a) Reinstall junction block.
- (b) Reinstall all trim pieces in reverse order.
 - (1) Reconnect any disconnected connectors.
- (c) Reinstall rear passenger seat.
- (d) Verify the panels fit together properly with no uneven gaps between them.

7. Reconnect Battery Cable.

- (a) Reconnect the vehicle's negative battery cable. (Fig. 7-1)
 - (1) Reconnect the negative terminal back to its original position.
 - (2) Tighten the nut with 4.1 N-m (36 lbf-in) of torque.
 - (3) Be careful not to touch the positive battery terminal.
- (b) Clean up and remove any trash.
- (c) Perform functional checks.
- (d) Place Sirius Satellite Radio brochure in the glove box.



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

Check:

Look For:

Accessory Function Checks

- Satellite Radio Tuner

- Receiver/player Assembly

- *Verify the proper operation of the Satellite Radio Tuner.

- *Verify the proper operation of the Receiver/player Assembly.

- *Verify both AM & FM have good reception.

- *(Refer to the receiver assembly and radio owner's manuals.)

Vehicle Function Checks

- NAV Antenna Functioning.

Confirm navigation operation by AVN diagnostics.