

Preparation

Part Number: Mounting Kit PT546-35090
Tuner Assembly 86180-0W031

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

Tuner Assembly Kit Contents (86180-0W031)

Item #	Quantity Req'd.	Description
1	1	Tuner Assy, Stereo Component

Mounting Kit Contents (PT546-35090)

Item #	Quantity Req'd.	Description
1	1	Wire, To Radio Installation
2	1	Antenna Cable
3	1	Ground Cable
4	2	Adhesive Sheet A (100 x 25 mm)
5	1	Adhesive Sheet B (185 x 26 mm)
6	1	XM Satellite Radio Brochure

Hardware Bag Contents – 1 (PT546-35090)

Item #	Quantity Req'd.	Description
1	1	Screw (M5xL8)

Hardware Bag Contents – 2 (PT546-35090)

Item #	Quantity Req'd.	Description
1	11	Lock Tie
2	7	Cushion Tape (80 x 135 mm)

Additional Items Required For Installation

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Conflicts

Sirius Satellite Radio
iPOD Interface Kit

Recommended Tools

Personal & Vehicle Protection	Notes
Special Tools	Notes
Installation Tools	Notes
Ratchet	
Extensions	
Sockets	10mm, 12mm, 14mm
Torque Wrench	3.9 N•m (36 lbf•in), 18 N•m (13 lbf•ft), 42 N•m (31 lbf•ft)
Screwdriver	Phillips, #2
Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST#00002-06001-01
Side Cutter	
Special Chemicals	Notes
Cleaner	3M™ Prep Sol-70

General Applicability

C and D Cab

Recommended Sequence of Application

Item #	Accessory

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Req'd.	Description

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.

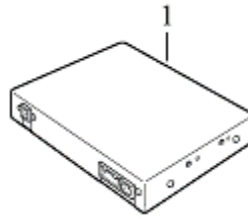


REVISION MARK: This mark highlights a change in installation with respect to previous issue.



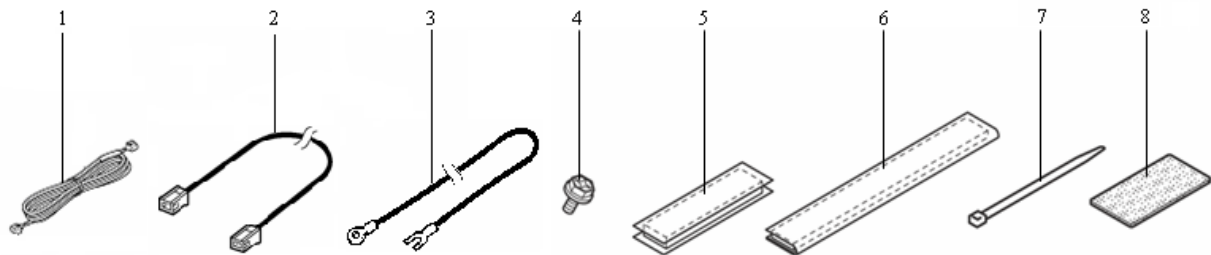
SAFETY TORQUE: This mark indicates that torque is related to safety.

Parts Description of Tuner Assembly (86180-0W031)



Item #	Parts Name	Parts No.	Qty
1	Tuner Assy, Stereo Component	86180-0W031	1

Parts Description of Mounting Kit (PT546-35090)



Item #	Parts Name	Qty
1	Wire, To Radio Installation* ¹ * ²	1
2	Antenna Cable* ²	1
3	Ground Cable* ²	1
4	Screw (M5 x L8)	1
5	Adhesive Sheet A (100 x 25 mm)	2
6	Adhesive Sheet B (185 x 26 mm)	1
7	Lock Tie (Access Cab only uses 9)	11
8	Cushion Tape (80 x 135 mm)	7

*¹: In the installation instructions and figures, this is referred to as “Tuner Cable”

*²: In the installation instruction figures, these three cables (tuner, antenna, and ground cables) are referred to as “Cord Assy”

Procedure

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.

NOTES



Removed Parts: -
Place all removed parts on a protected surface.



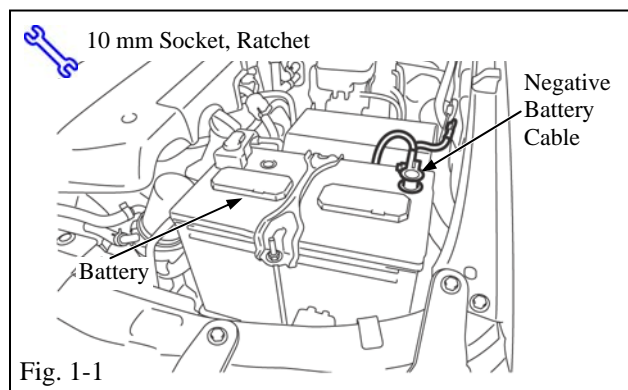
Connectors: -
When disconnecting connectors, do not pull on the wires; pull on the connectors.



Lock Ties: -
When using lock ties to secure harness, clip the lock ties after securing them.



Machine Screws: -
Start all machine screws by hand.



1. Vehicle Protection.

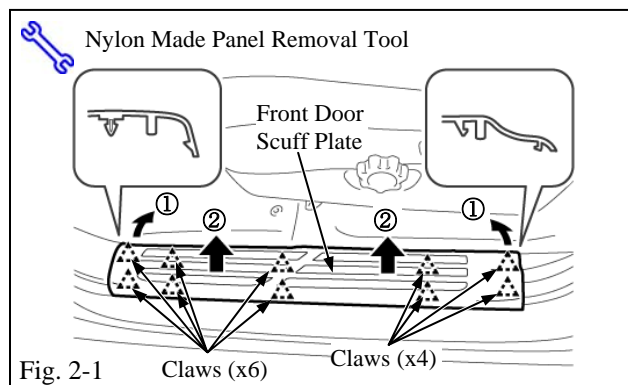
(a) Remove the negative battery cable. (Fig. 1-1)



(1) Protect the fender before starting.



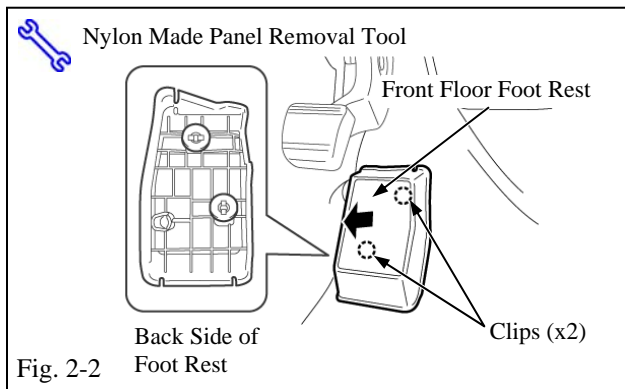
(2) Do not touch the positive terminal with any tool when removing cable.



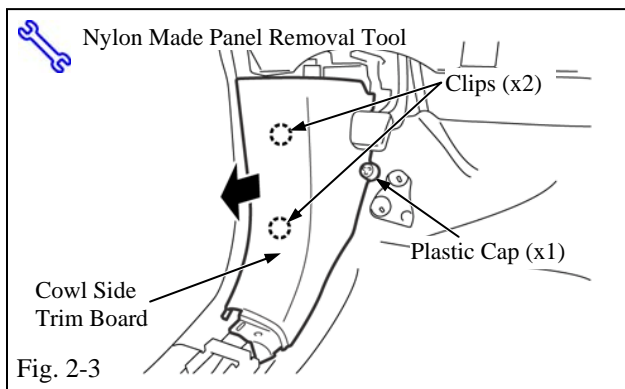
2. Disassembly of Vehicle.

(Model with Double Cab)

(a) Disengage the ten (10) claws, then remove the left side front door scuff plate in the direction of arrows. (Fig. 2-1)

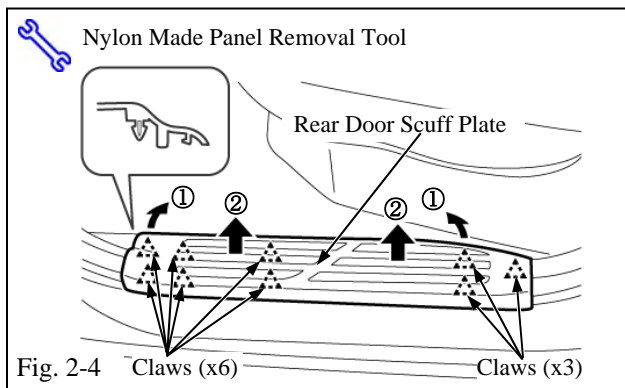


- (b) Disengage the two (2) clips, then remove the front floor foot rest. (Fig. 2-2)

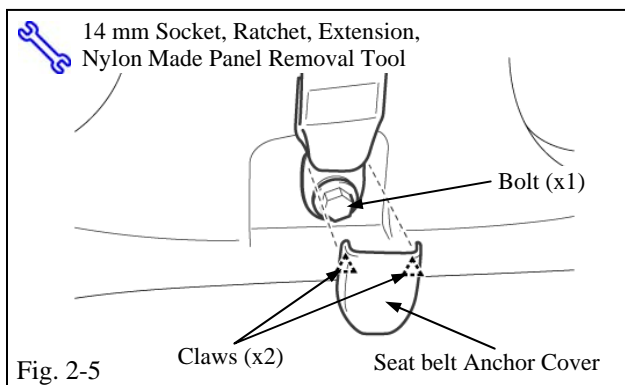


- (c) Remove the left side cowl side trim board in the following steps. (Fig. 2-3)

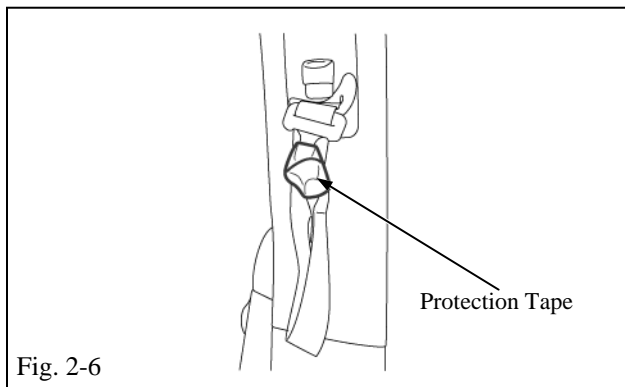
- (1) Remove the one (1) plastic cap.
- (2) Disengage the two (2) clips, then remove the left side cowl side trim board in the direction of arrow.



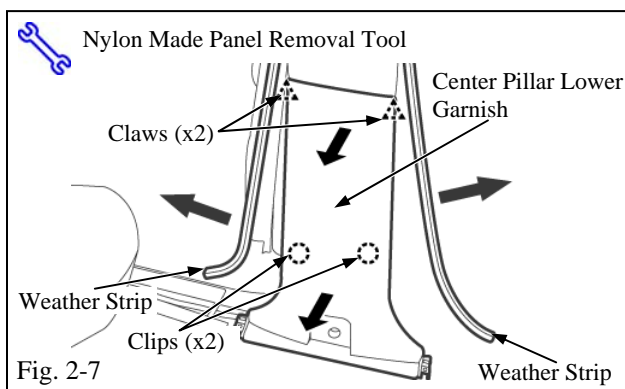
- (d) Disengage the nine (9) claws, then remove the left side rear door scuff plate in the direction of arrows. (Fig. 2-4)



- (e) Remove the left side front seat belt anchor plate in the following steps. (Fig. 2-5)
- (1) Slide the driver seat forward.
 - (2) Disengage the two (2) claws, then remove the left side front seat belt anchor cover.
 - (3) Unbolt and remove the left side front seat belt anchor plate from the center pillar.

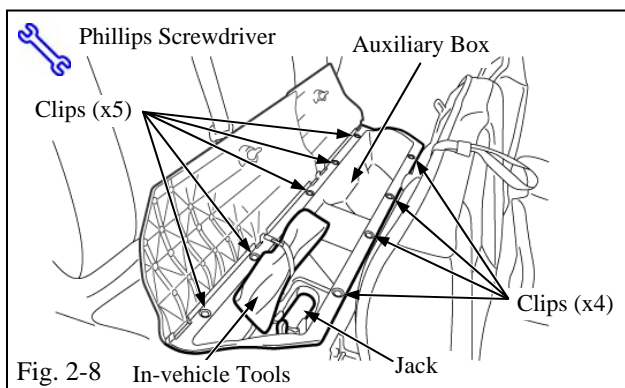


- (4) In order to prevent scratches to the panels, apply protection tapes around the anchor plate and installation bolt. (Fig. 2-6)



- (f) Remove the left side center pillar lower garnish in the following steps. (Fig. 2-7)

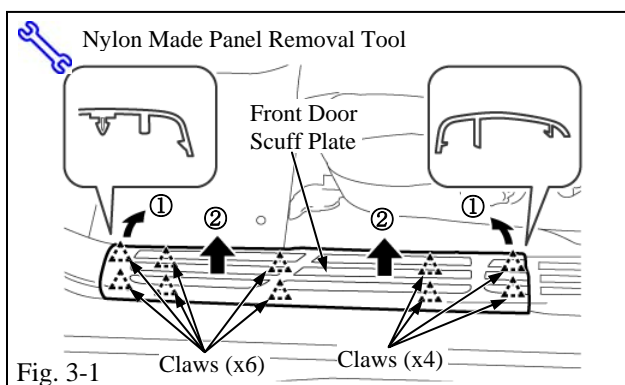
- (1) Remove the left side front door opening trim weather strip from the left side center pillar.
- (2) Remove the left side rear door opening trim weather strip.
- (3) Disengage the two (2) clips and two (2) claws, then remove the left side center pillar lower garnish in the direction of the arrows.



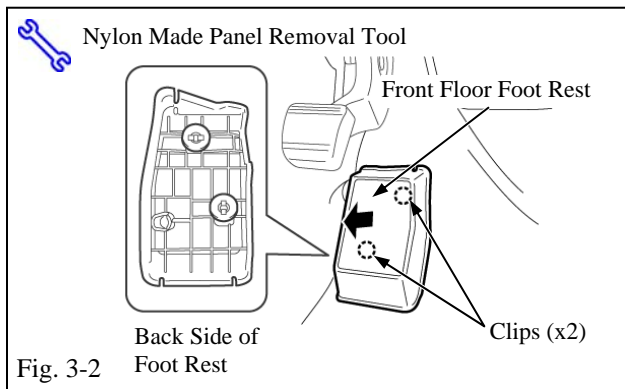
- (g) Remove the auxiliary box in the following steps. (Fig. 2-8)

- (1) Fold up the rear seat cushion.
- (2) Remove the in-vehicle tools and jack.
- (3) Remove the nine (9) clips then remove auxiliary box.

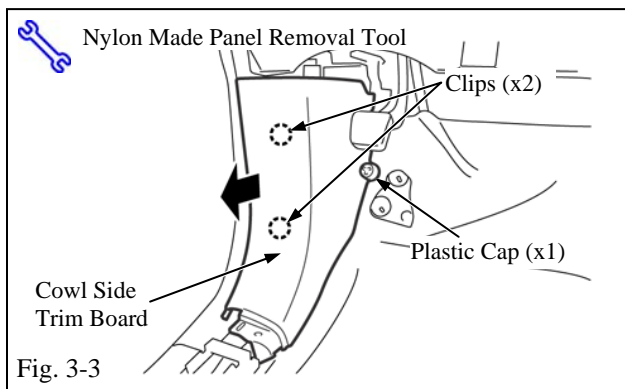
3. Disassembly of Vehicle.



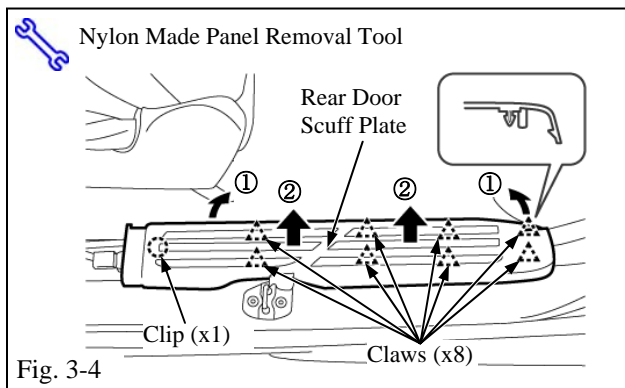
- (a) Disengage the ten (10) claws, then remove the left side front door scuff plate in the direction of arrows. (Fig. 3-1)



- (b) Disengage the two (2) clips, then remove the front floor foot rest. (Fig. 3-2)

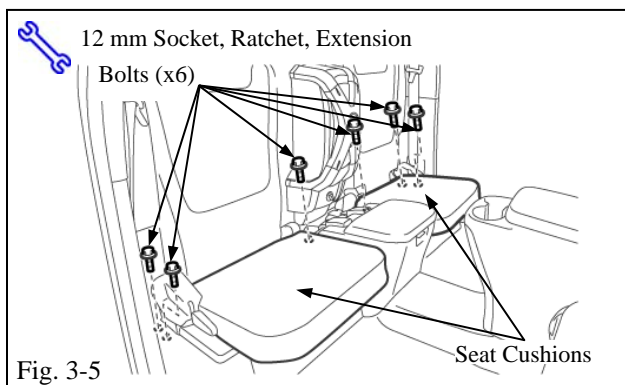


- (c) Remove the left side cowl side trim board in the following steps. (Fig. 3-3)
- (1) Remove the one (1) plastic cap.
 - (2) Disengage the two (2) clips, then remove the left side cowl side trim board in the direction of arrow.

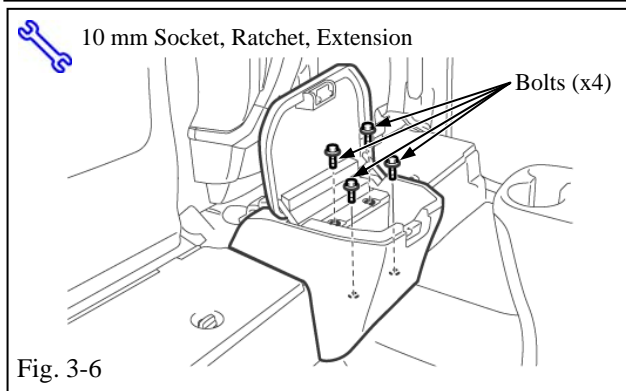


- (d) Disengage the eight (8) claws and one (1) clip, then remove the left side rear door scuff plate in the direction of arrows. (Fig. 3-4)

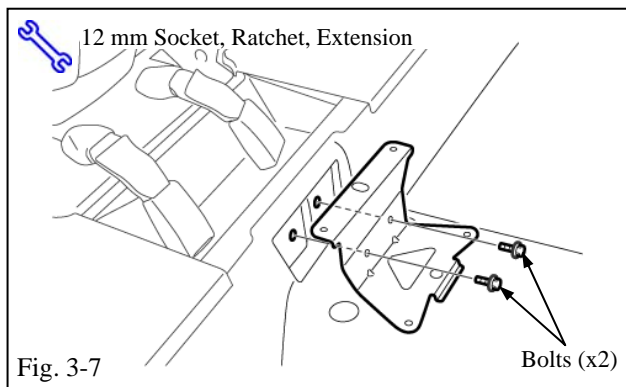
NOTE: For models with Access Cab, follow steps 3e - 3k



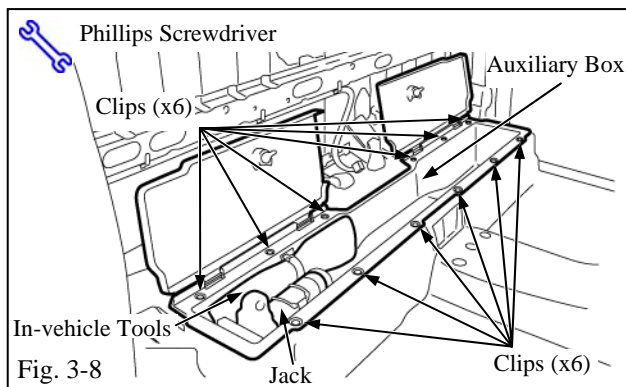
- (e) Remove the rear seat cushions in the following steps. (Fig. 3-5)
- (1) Remove the six (6) bolts.
 - (2) Remove the left and right rear seat cushions.



- (f) Remove the four (4) bolts, and then remove the rear lower console box. (Fig. 3-6)



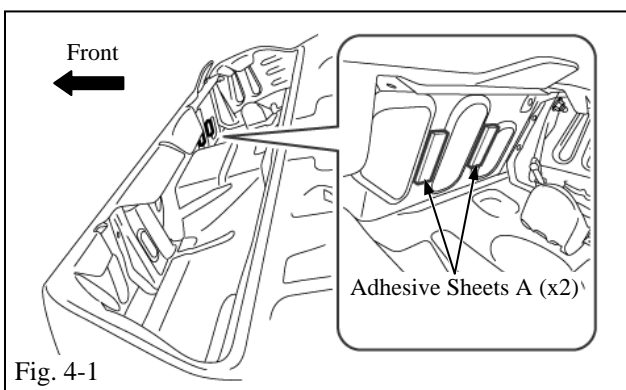
- (g) Remove the two (2) bolts, then remove the rear lower console box bracket. (Fig. 3-7)



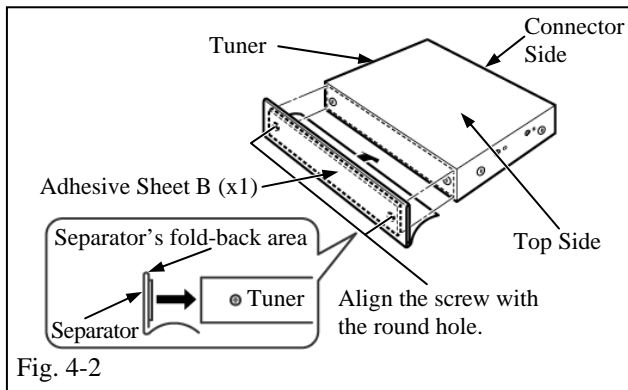
- (h) Remove the auxiliary box in the following steps. (Fig. 3-8)

- (1) Remove the in-vehicle tools and jack.
- (2) Remove the twelve (12) clips then remove auxiliary box.

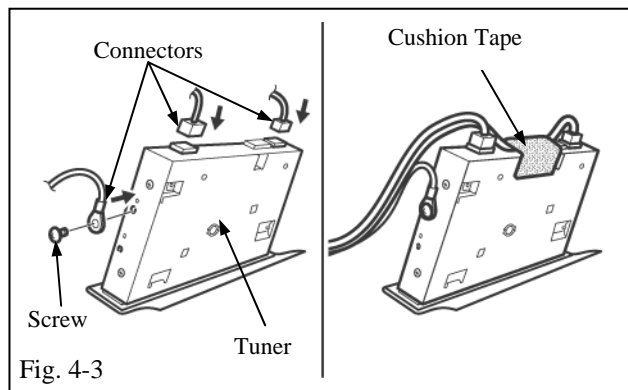
4. Install the Tuner.



- (a) Prior to applying adhesive sheets, clean the mounting areas with a 3M™ Prep Sol-70.
- (b) Apply two (2) adhesive sheets A to the vehicle panel as shown in the figure. (Fig. 4-1)

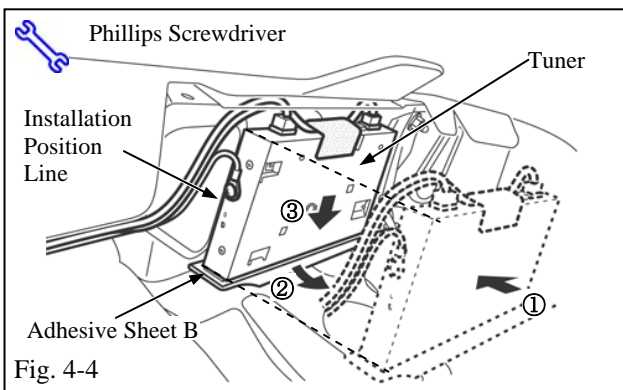


- (c) Apply one (1) adhesive sheet B to the tuner as shown in the figure. (Fig. 4-2)



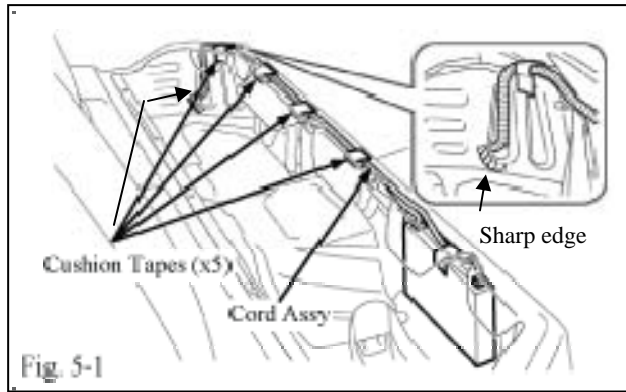
- (d) Install the connectors to the tuner. (Fig. 4-3)

- (1) Install the connectors of tuner cable, antenna cable, and ground cable to the tuner.
- (2) Secure the tuner cable to the tuner as shown in the figure by using one (1) cushion tape.



- (e) Attach the tuner to the location shown in the illustration on the body. (Fig. 4-4)

- (1) Peel the separator from adhesive sheets A.
- (2) With the separator still in place, bring adhesive sheet B into contact with the bottom, and then slide it along until it comes into contact with the side of the body.
- (3) Stick adhesive sheets A onto the side.
- (4) Peel the separator from adhesive sheet B.
- (5) Apply pressure from the top to make sure adhesive sheet B is firmly stuck in place.



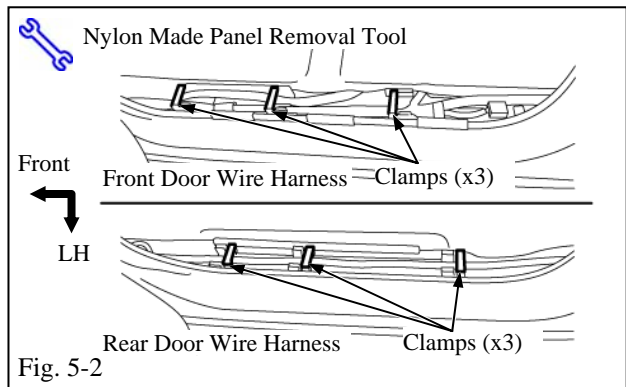
5. Route the Tuner Cable, Antenna Cable, and Ground Cable. (Model with Double Cab)

- (a) Route and fix the tuner cable, antenna cable, and ground cable to the vehicle with the five (5) cushion tapes as shown.

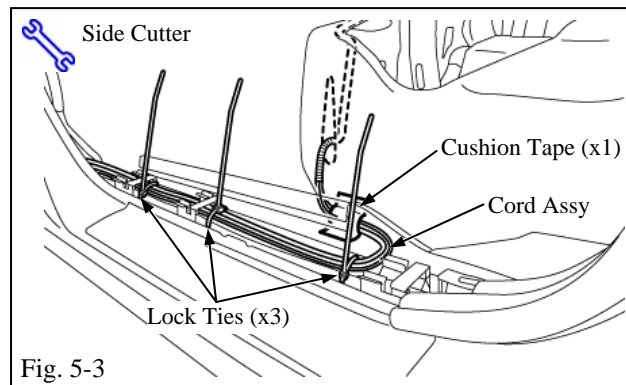
(Fig. 5-1)



- (1) Be sure to cover sharp edge with foam tape.

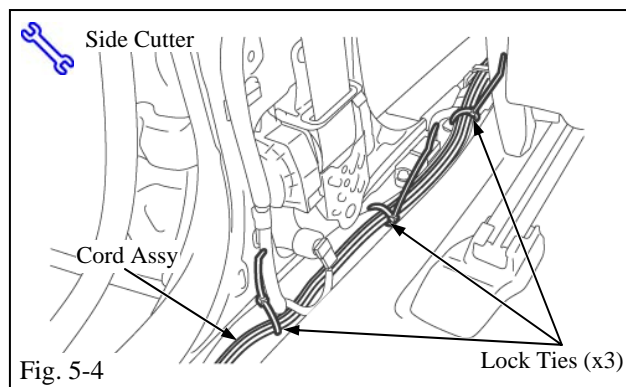


- (b) Disengage the three (3) clamps of the left side front door wire harness and three (3) clamps of the left side rear door wire harness. (Fig. 5-2)



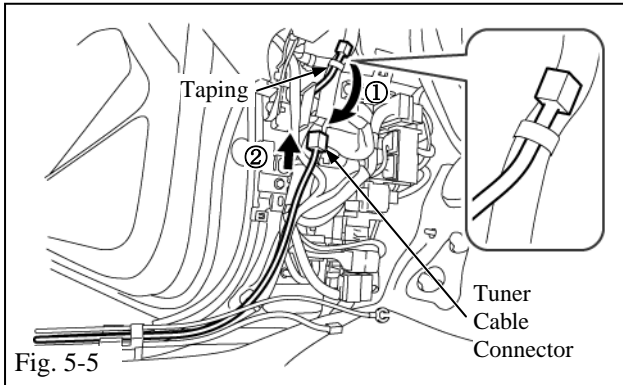
- (c) Route the tuner, antenna, and ground cables as shown, and then secure them with the three (3) lock ties and one (1) cushion tape as shown. (Fig. 5-3)

- (d) Use the side cutter to cut off the excess lock ties length.



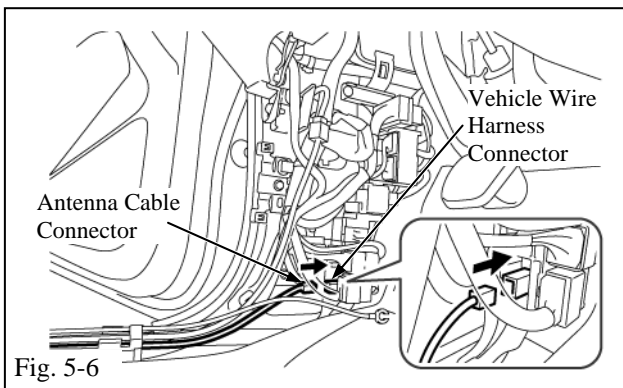
- (e) Route the tuner, antenna, and ground cables as shown, and then secure them with the three (3) lock ties. (Fig. 5-4)

- (f) Use the side cutter to cut off the excess lock ties length.

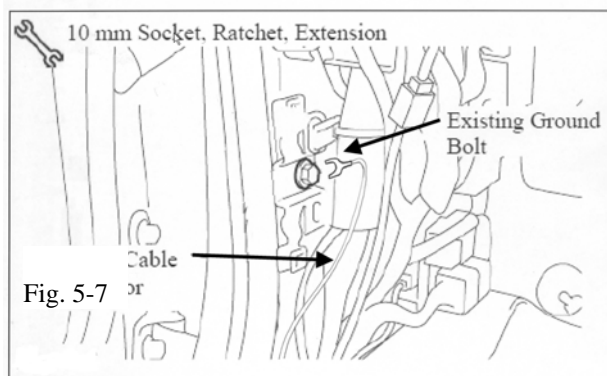


(g) Connect the tuner cable connector of tuner cable in the following steps. (Fig. 5-5)

- (1) Remove the tape binding the connector to the wire harness, and pull the connector as shown.
- (2) Connect the tuner cable connector of tuner cable to the vehicle wire harness connector pulled in step (1).



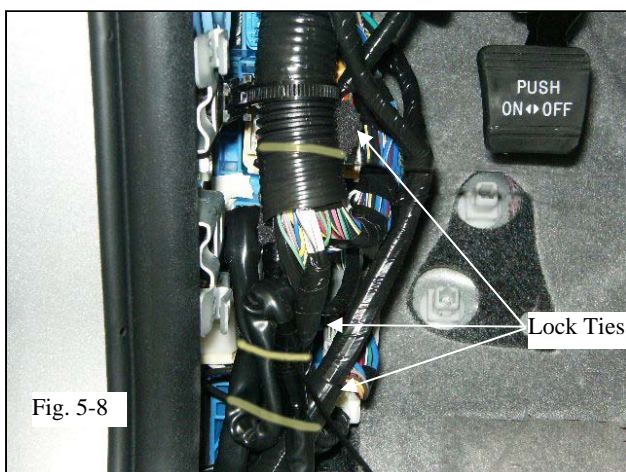
(h) Connect the antenna cable connector of antenna cable to the vehicle wire harness connector as shown in the figure. (Fig. 5-6)



(i) Install the end of the ground cable connector of ground cable onto the ground bolt located on the cowl side. (Fig. 5-7)



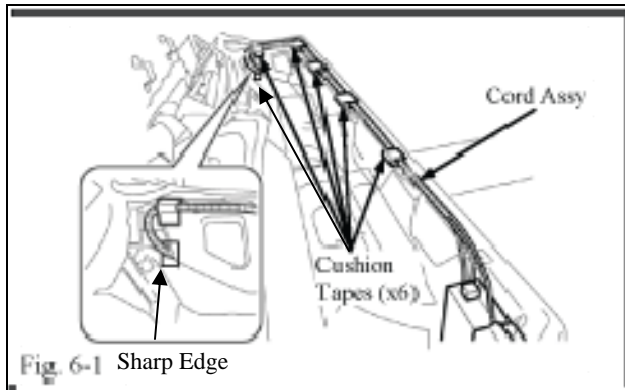
- (1) Be sure to orient the cable connector from the front side of vehicle to avoid interference with cowl trim when re-installed.



(j) Secure the tuner cable, antenna cable and ground cable with the lock tie in the following steps. (Fig. 5-8)

- (1) Bundle excess cables in cowl area and secure to vehicle wire harness with three (3) lock ties

(k) Use the side cutter to cut off the excess lock ties length.

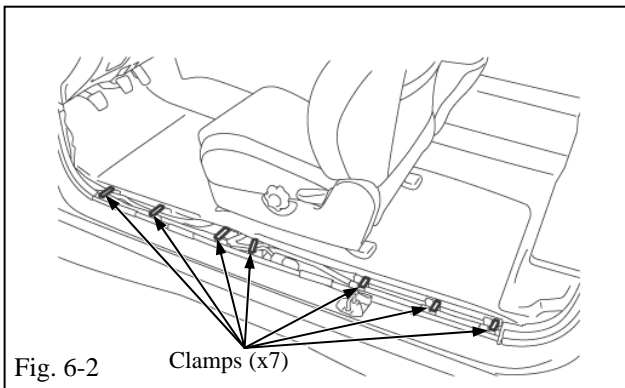


6. Route the Tuner Cable, Antenna Cable, and Ground Cable. (Model with Access Cab)

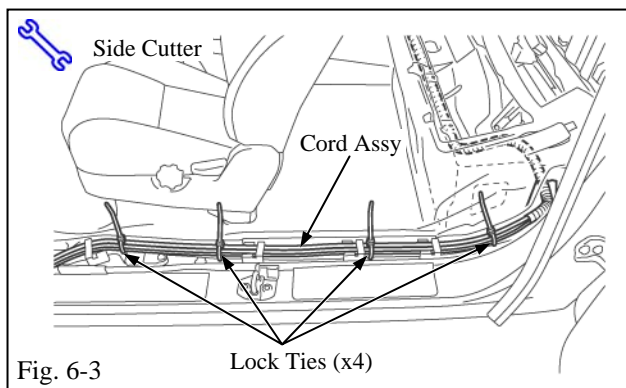
- (a) Route and fix the tuner, antenna, and ground cables to the vehicle with the five (6) cushion tapes as shown.
(Fig. 6-1)



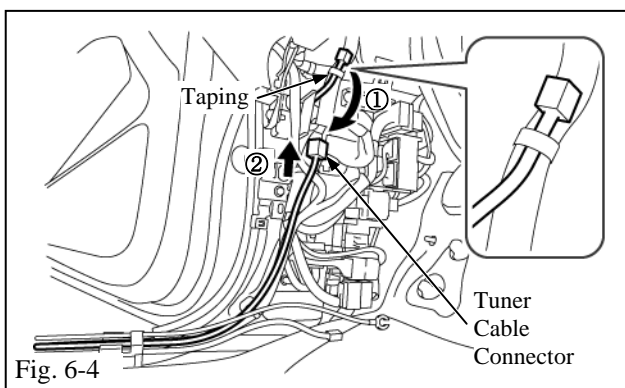
- (1) Be sure to cover sharp edge with foam



- (b) Disengage the seven (7) clamps of the left side door wire harness. (Fig. 6-2)

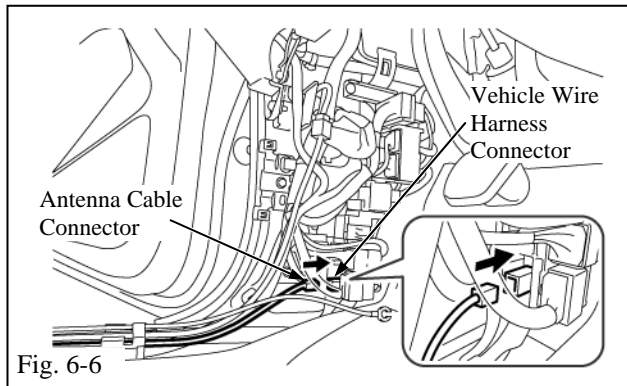


- (c) Route the tuner, antenna, and ground cables as shown, and then secure them with the four (4) lock ties. (Fig. 6-3)
- (d) Use the side cutter to cut off the excess lock ties length.



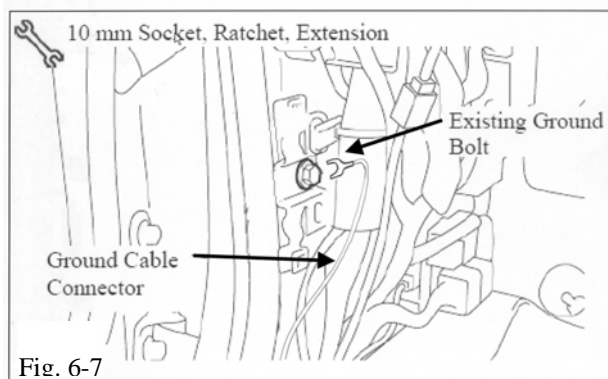
- (e) Connect the tuner cable connector of tuner cable in the following steps. (Fig. 6-4)

- (1) Remove the tape binding the connector to the wire harness, and pull the connector as shown.



- (2) Connect the tuner cable connector of tuner cable to the vehicle wire harness connector pulled in step (1).

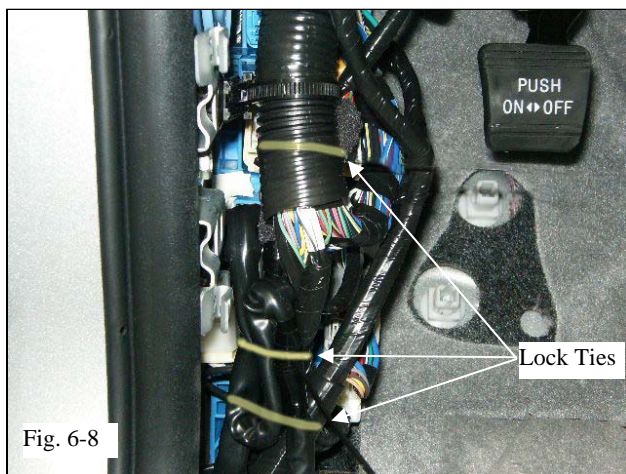
- (f) Connect the antenna cable connector of antenna cable to the vehicle wire harness connector as shown in the figure. (Fig. 6-6)



- (g) Install the end of the ground cable connector of ground cable onto the ground bolt located on the cowl side. (Fig. 6-7)



- (1) Be sure to orient the cable connector from the front side of vehicle to avoid interference with cowl trim when re-installed.



- (h) Secure the tuner cable, antenna cable and ground cable with the lock tie in the following steps. (Fig. 6-8)
- (i) Bundle excess cables in cowl area and secure to vehicle wire harness with three (3) lock ties.
- (j) Use the side cutter to cut off the excess lock ties length.

7. In Process Functional Test.

- (a) Temporarily reconnect negative battery cable.
- (b) Turn the ignition key to "ACC" position.
- (c) Press the power button on the receiver/player head unit.
- (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 of Cord Assy is disconnected from the satellite tuner.

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

- (e) Disconnect negative battery cable.

8. Complete the Reassembly of Vehicle.

- (a) Install the left side center pillar lower garnish and weather strips in position.
(Model with Double Cab)
- (b) Install the left side front seat belt anchor plate bolt. (Model with Double Cab) (Fig. 8-1)

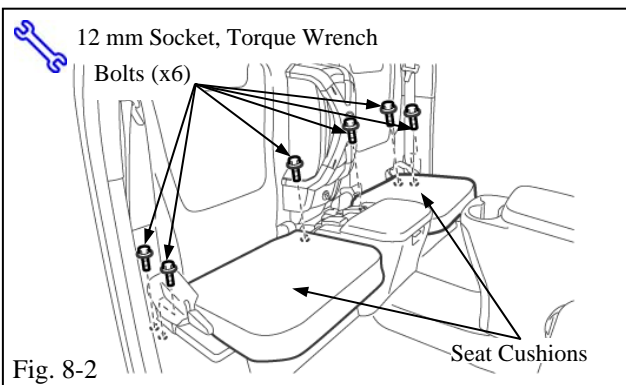
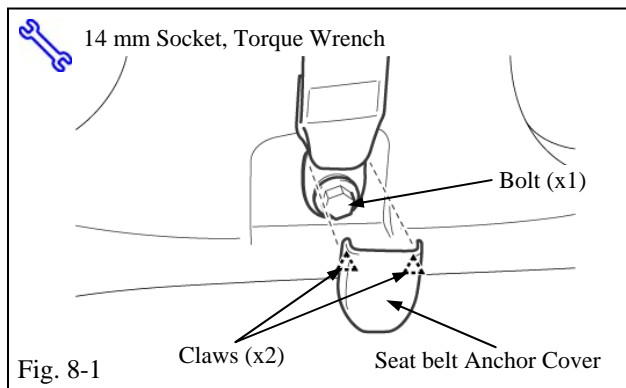


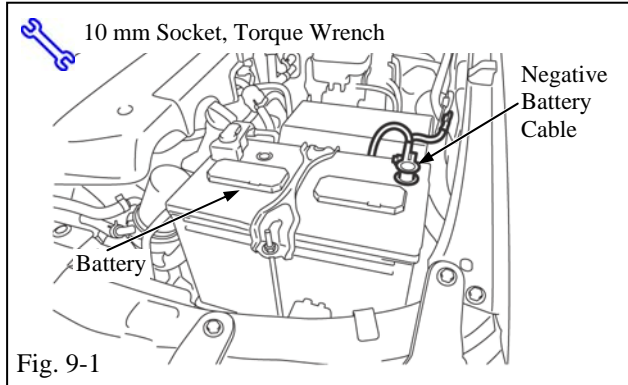
- (1) Tighten bolt to 42 N·m (31 lbf·ft).

- (c) Install the rear seat cushions.
(Model with Access Cab) (Fig. 8-2)



- (1) Tighten bolt to 18 N·m (13 lbf·ft).





9. Reconnect Battery Cable

(a) Reconnect the vehicle negative battery cable.
(Fig. 9-1)

(1) Position the negative terminal to the battery as shown (original factory position).



(2) Tighten the nut to 3.9 N·m (36 lbf·in).



(3) Do not touch the positive terminal with any tool when installing the cable.

(b) Clean up and remove any trash.



(c) Place the owner "XM Satellite Radio" brochure in the glove box.

(e) Perform the RID registration process.

TOYOTA TACOMA 2009 - XM SATELLITE RADIO

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

<u>Check:</u>	<u>Look For:</u>
<u>Accessory Function Checks</u> <input type="checkbox"/> Satellite Radio Tuner. <input type="checkbox"/> Receiver/player Assembly.	 *Verify the proper operation of the satellite radio tuner. *Verify the proper operation of the receiver/player assembly. *(Refer to the receiver assembly and radio owner's manuals.)
<u>Vehicle Function Checks</u> <input type="checkbox"/> Removed left side front seat belt (Model with Double Cab) <input type="checkbox"/> Removed left side rear seat cushions (Model with Access Cab) <input type="checkbox"/> Removed left side rear seat belt (Model with Access Cab) <input type="checkbox"/> Removed amplifier box speaker (Model with Access Cab)	 Proper operation of the left side front seat belt. Proper operation of the left side rear seat cushions. Proper operation of the left side rear seat belt. Proper operation of the amplifier box speaker.