

Part Number:

Mounting Kit PT546-60080 (Model without RSE)

Mounting Kit PT546-60081 (Model with RSE)

Tuner Assembly 86180-0W031

Tuner Assembly Kit Contents (86180-0W031)

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

Mounting Kit Contents (PT546-60080 or PT546-60081)

| Item # | Quantity Req'd. | Description |
|--------|-----------------|-----------------------------|
| 1 | 1 | Wire, To Radio Installation |
| 2 | 1 | Butyl Sheet (38 mm x 38 mm) |
| 3 | 1 | Tuner Bracket A |
| 4 | 1 | Tuner Bracket B |
| 5 | 1 | Antenna |
| 6 | 3 | Hardware Bags |
| 7 | 1 | XM Satellite Radio Brochure |
| | | |

Hardware Bag Contents-1 (PT546-60080 or PT546-60081)

| Item # | Quantity Req'd. | Description |
|--------|-----------------|-----------------|
| 1 | 4 | Screw (M5 x L8) |
| 2 | 2 | Bolt (M6 x 16) |

Hardware Bag Contents-2 (PT546-60080 or PT546-60081)

| Item # | Quantity Req'd. | Description |
|--------|-----------------|-------------------------------|
| 1 | 1 or 2* | Cushion Tape (50 mm x 100 mm) |
| 2 | 17 | Lock Tie A |
| | | |

*For PT546-60080: 1, PT546-60081: 2

Hardware Bag Contents-3 (PT546-60080 or PT546-60081)

| Item # | Quantity Req'd. | Description |
|--------|-----------------|-----------------------------|
| 1 | 1 | Connector Housing |
| 2 | 5 | Sheet Tape (30 mm x 30 mm) |
| 3 | 7 | Lock Tie B |
| 4 | 1 | Cord Rail (10 mm) |
| 5 | 2 | Cord Rail (140 mm) |
| 6 | 1 | Silicon Tube (30 mm) |
| 7 | 1 | Butyl Sheet (15 mm x 15 mm) |
| | | |

Additional Items Required For Installation

| Item # | Quantity Req'd. | Description |
|--------|-----------------|-------------|
| | | |

Conflicts

| |
|--|
| iPod Interface, Sirius Satellite Radio |
|--|

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

Recommended Tools

| Personal & Vehicle Protection | Notes |
|-------------------------------|---|
| Vehicle Protection | Blankets, Seat Covers, Clean Cloths, Part Boxes |
| Special Tools | Notes |
| None | |
| Installation Tools | Notes |
| Ratchet, Extensions | |
| Wrench | Open End, 10 mm, 14 mm |
| Torque Wrench (x 3) | 42 N·m (32lbf·ft) (Seat) 4.1 N·m (36lbf·in) (Battery Cable) 10 N·m (7lbf·ft) (Knee air bag) |
| Sockets | 10 mm, 14 mm |
| Screwdriver | Philips, #2 |
| Panel Clip Removal Tool | e.g. Toyota SST P/N 00002-06002-01 |
| Masking tape | (2" wide) |
| Side Cutter | |
| Special Chemicals | Notes |
| Sealant | 3M™ Ultra-Pro Body Sealant |
| Cleaner | 3M™ Prep Sol-70 |
| Silicon Glue | |

General Applicability

| |
|--|
| |
|--|

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.

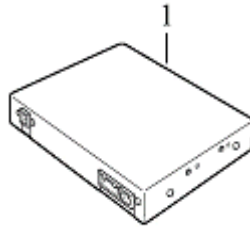


REVISION MARK: This mark highlights a change in installation with respect to previous issue.



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

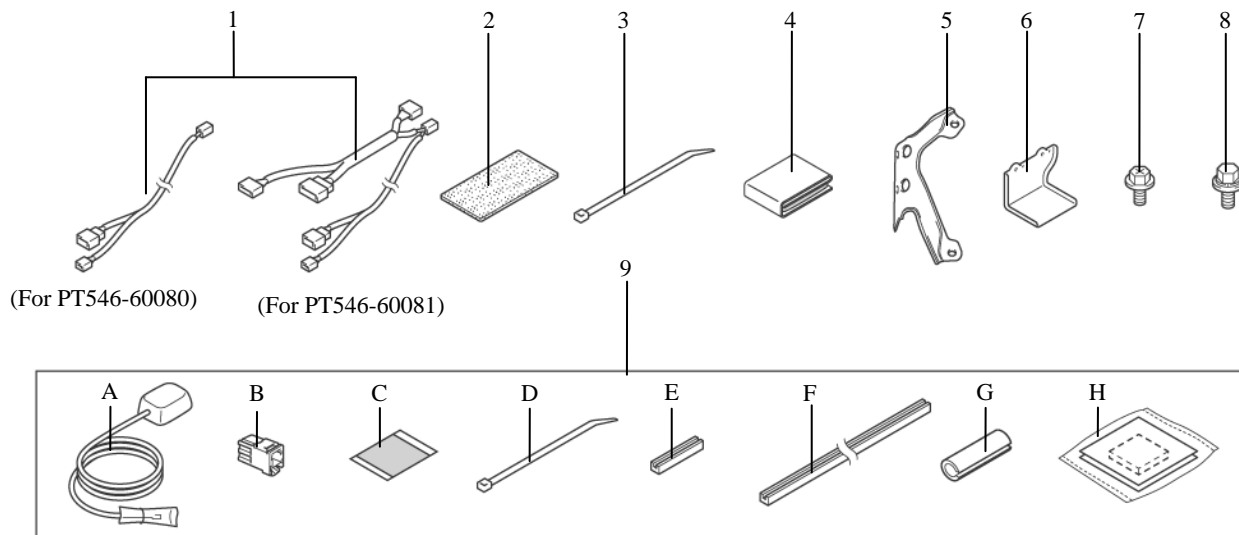
Preparation

Parts Description of Tuner Assembly
(86180-0W031)

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

★: In the installation instructions and figures, this is referred to as “Tuner”.

Parts Description of Mounting Kit (PT546-60080, PT546-60081)



| Item # | Part Name | Qty |
|--------|--------------------------------|-----------|
| 1 | Wire, To Radio Installation ★1 | 1 |
| 2 | Cushion Tape (50 mm x 100 mm) | 1 or 2 ★2 |
| 3 | Lock Tie A | 17 |
| 4 | Butyl Sheet (38 mm x 38 mm) | 1 |
| 5 | Tuner Bracket A | 1 |
| 6 | Tuner Bracket B | 1 |
| 7 | Screw (M5 x L8) | 4 |
| 8 | Bolt (M6 x 12) | 2 |
| 9 | A Antenna | 1 |
| | B Connector Housing | 1 |
| | C Sheet Tape (30 mm x 30 mm) | 5 |
| | D Lock Tie B | 7 |
| | E Cord Rail (10 mm) | 1 |
| | F Cord Rail (140 mm) | 2 |
| | G Silicon Tube (30 mm) | 1 |
| | H Butyl Sheet (15 mm x 15 mm) | 1 |

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

★2: For PT546-60080: 1, PT546-60081: 2

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 electrical 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.



When disconnecting a yellow connector for the SRS airbag, wait 90 seconds or more after disconnecting the negative battery cable before performing the next task.

1. Vehicle Protection

- (a) Place front passenger seat in mid position.
- (b) Set the parking brake.
- (c) Disconnect the negative battery cable of the battery installed on the left side of the engine compartment. (Fig. 1-1)



- (1) Protect the fender before starting.



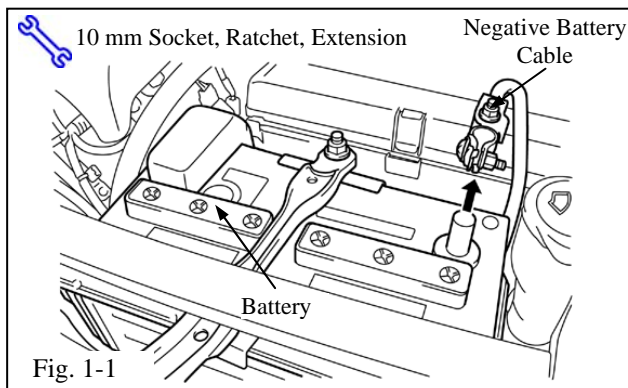
- (2) Do not touch the positive terminal with any tool when removing cable.



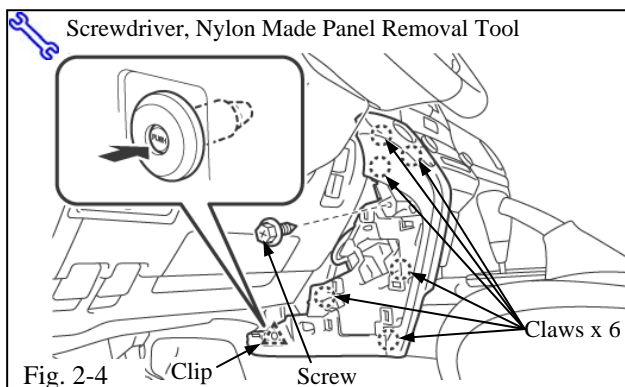
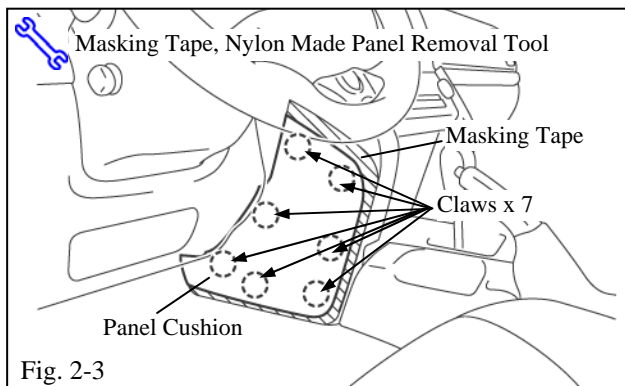
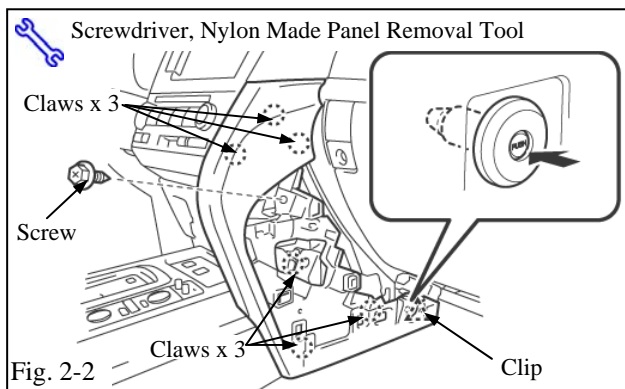
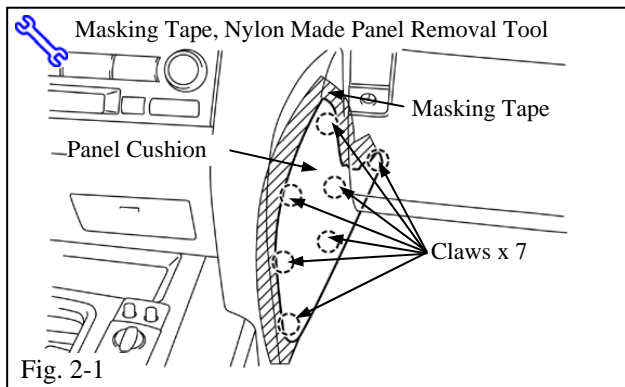
- (d) Cover front and second seats, interior of vehicle, center console and front side of the shift lever.



- (e) Wait 90 seconds before proceeding to disassemble vehicle.



2. Removal of Instrument Panel Components



(a) Remove the lower instrument panel pad sub-assembly RH.

- (1) Apply masking tape around the panel cushion on the right. (Fig. 2-1)
- (2) Disengage the seven (7) claws using a nylon made panel removal tool, and then remove the panel cushion on the right. (Fig. 2-1)

(3) Remove the upper side screw on the right panel, and then disengage the clip on the bottom. (Fig. 2-2)

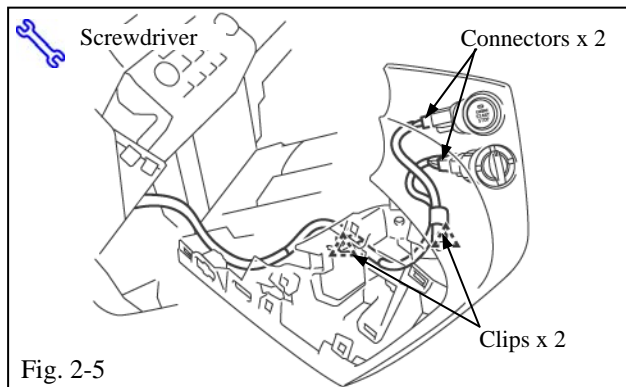
(4) Disengage the six (6) claws on the right panel, and then remove the right panel by pulling it upward as if sliding it. (Fig. 2-2)

(b) Remove the lower instrument panel pad sub-assembly LH. (Model with Navigation)

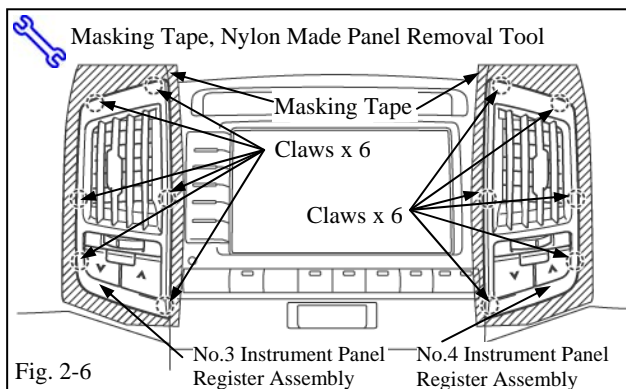
- (1) Apply masking tape around the panel cushion on the left. (Fig. 2-3)
- (2) Disengage the seven (7) claws using a nylon made panel removal tool, and then remove the panel cushion on the left. (Fig. 2-3)

(3) Remove the upper side screw on the left panel, and then disengage the clip on the bottom. (Fig. 2-4)

(4) Disengage the six (6) claws on the left panel, and then remove the left panel by pulling it upward as if sliding it. (Fig. 2-4)

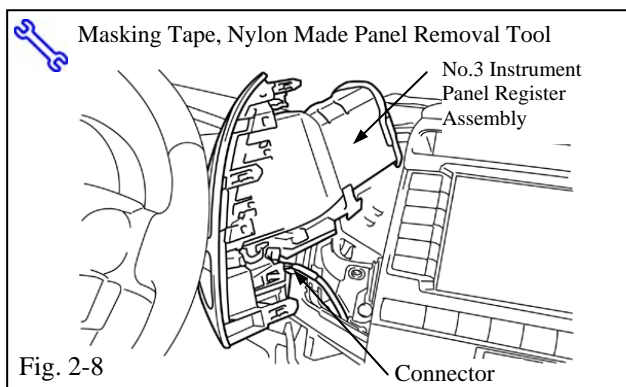
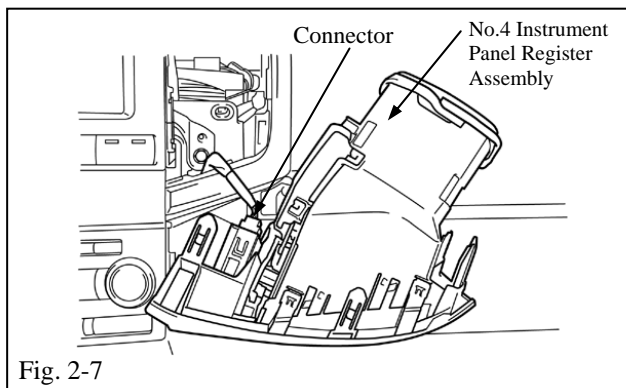


- (5) After removing the left panel from the console, disconnect the two (2) connectors behind the panel, and then disengage the two (2) clips. (Fig. 2-5)

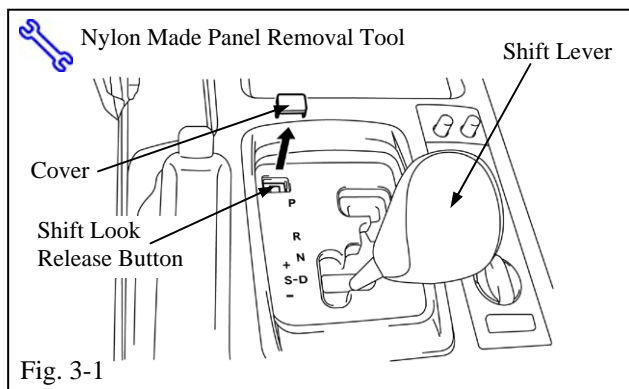


- (c) Remove both instrument panel register assemblies.

- (1) Apply masking tape around the register on the right. (Fig. 2-6)
- (2) Disengage the twelve (12) claws using the nylon made panel removal tool. (Fig. 2-6)
- (3) Slowly pull out the No.3 and No.4 instrument panel register assembly.
- (4) Disconnect the connector, and then remove the No.4 instrument panel register assembly. (Fig. 2-7)



- (5) Disconnect the connector, and then remove the No.3 instrument panel register assembly. (Fig. 2-8)



3. Removal of Radio Receiver Assembly (Model with Navigation Display)

NOTE: For models without Navigation display please look at page 8.

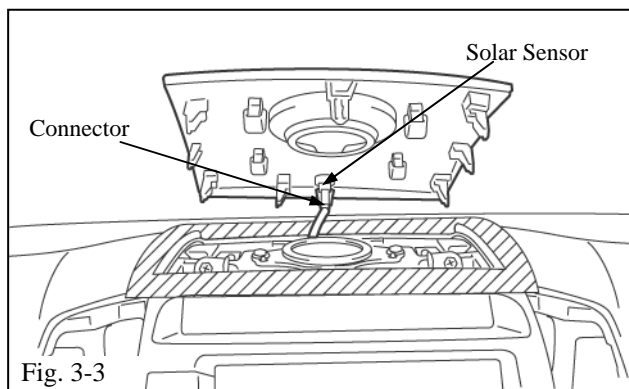
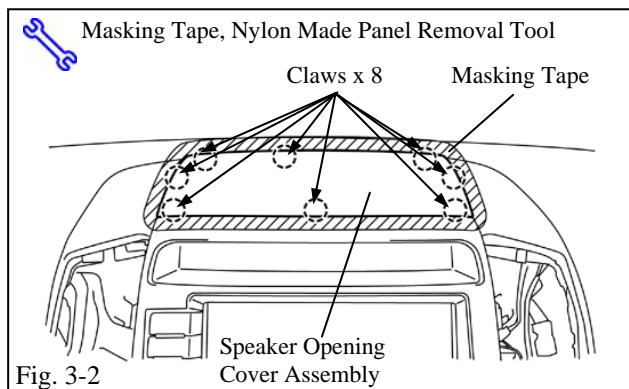
(a) Shift the shift lever into the D position.



- (1) If installed, use the panel removal tool to carefully remove the shift lock release cover. (Fig. 3-1)
- (2) Depress the shift lock release button and place the shift lever into the D position.
- (3) Reinstall the shifter lock release cover if removed in step (1).

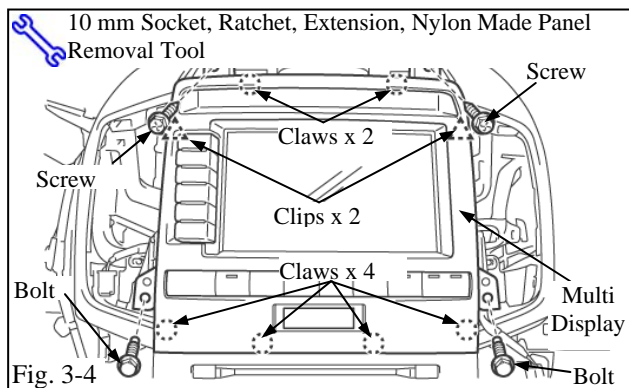
(b) Remove the speaker opening cover assembly.

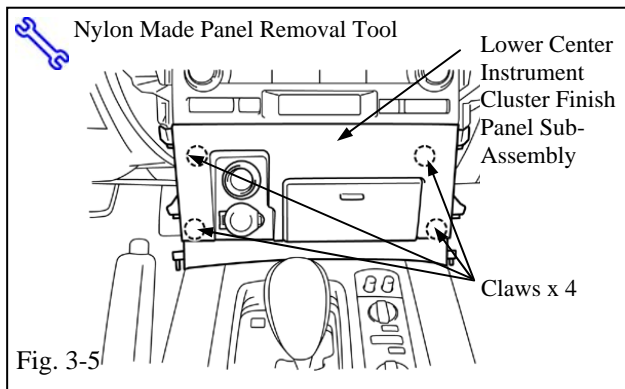
- (1) Apply masking tape around the speaker opening cover assembly. (Fig. 3-2)
- (2) Disengage the eight (8) claws using the nylon made panel removal tool, and then pull out the speaker opening cover assembly upward.
- (3) Disconnect the connector for the solar sensor, and then remove the speaker opening cover assembly. (Fig. 3-3)



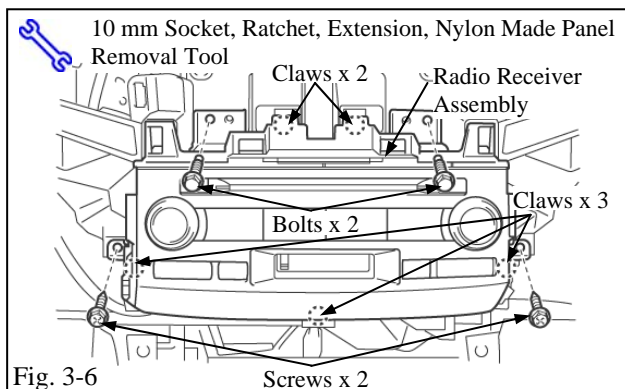
(c) Remove the multi display.

- (1) Remove the two (2) screws on the top and the two (2) bolts on the bottom of the multi display. (Fig. 3-4)
- (2) Disengage the six (6) claws and the two (2) clips using the nylon made panel removal tool, and then slowly pull out the multi display.
- (3) Disconnect the six (6) connectors on the back, and then remove the multi display.

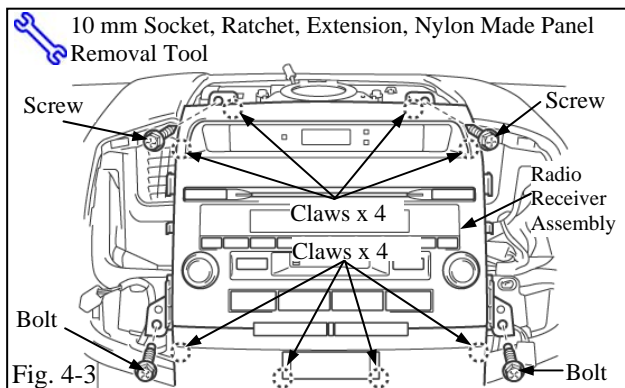
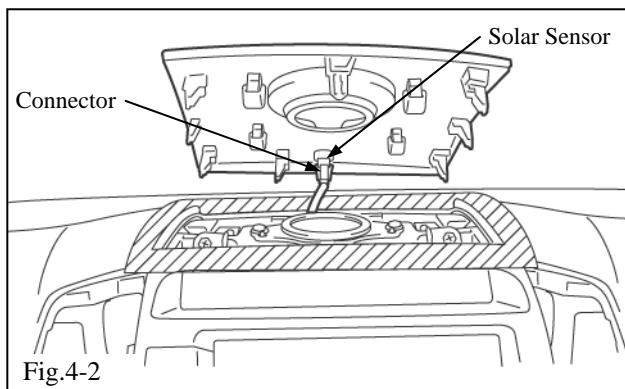
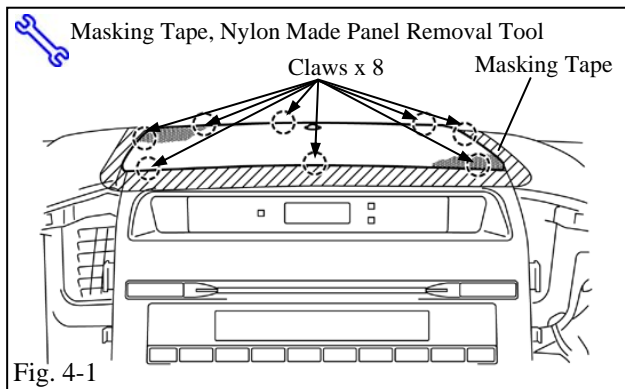




- (4) Disengage the four (4) claws using the nylon made panel removal tool, and then slowly pull out the lower center instrument cluster finish panel sub-assembly. (Fig. 3-5)
- (5) Disconnect the four (4) connectors behind, and then remove the lower center instrument cluster finish panel sub-assembly.



- (d) Remove the radio receiver assembly.
 - (1) Remove the two (2) bolts on the top and the two (2) screws on the bottom of the radio receiver assembly. (Fig. 3-6)
 - (2) Disengage the five (5) claws using the nylon made panel removal tool, and then slowly pull out the radio receiver assembly.
 - (3) Disconnect the six (6) connectors behind and the two (2) antenna cables, and then remove the radio receiver assembly.



4. Removal of Radio Receiver Assembly (Model without Navigation Display)

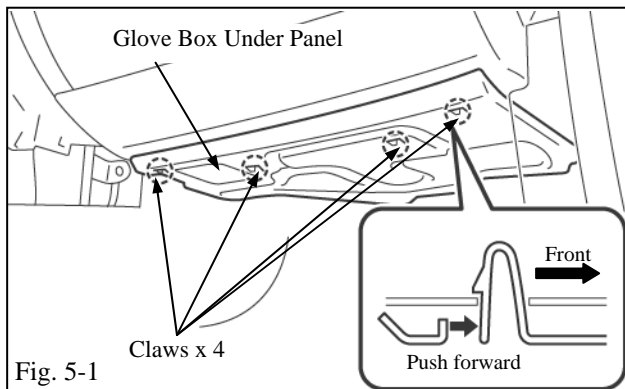
NOTE: For models with navigation display please look at page 6.

(a) Remove the speaker opening cover assembly.

- (1) Apply masking tape around the speaker opening cover assembly. (Fig. 4-1)
- (2) Disengage the eight (8) claws using the nylon made panel removal tool, and then pull out the speaker opening cover assembly upward.
- (3) Disconnect the connector of the solar sensor, and then remove the speaker opening cover assembly. (Fig. 4-2)

(b) Remove the radio receiver assembly.

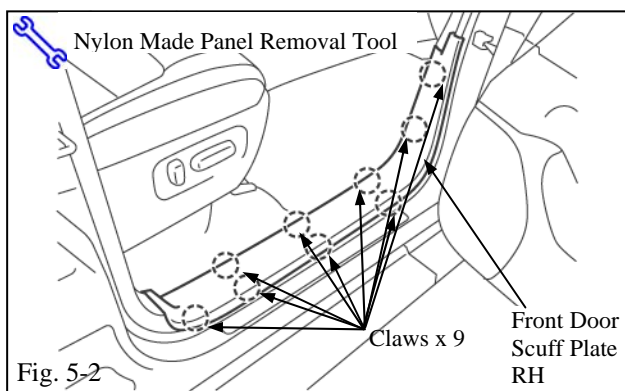
- (1) Remove the two (2) screws on the top and the two (2) bolts on the bottom of the radio receiver assembly. (Fig. 4-3)
- (2) Disengage the eight (8) claws using the nylon made panel removal tool, and then slowly pull out the radio receiver assembly forward.
- (3) Disconnect the five (5) connectors behind, and then remove the radio receiver assembly.



5. Removal of Vehicle Components

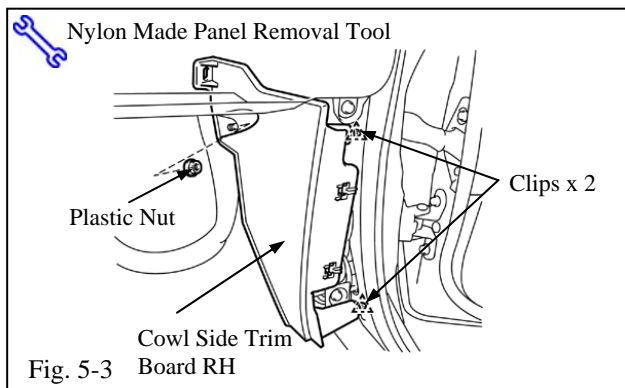
(a) Remove the glove box under panel.

- (1) Disengage the four (4) claws, and then remove the glove box under panel.
(Fig. 5-1)



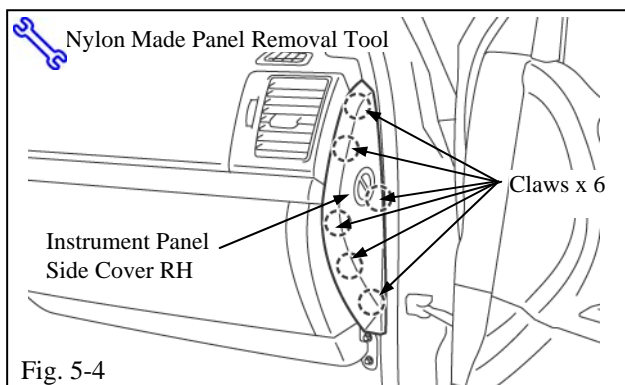
(b) Remove the front door scuff plate RH.

- (1) Disengage the nine (9) claws using the nylon made panel removal tool, and then remove the front door scuff plate RH.
(Fig. 5-2)



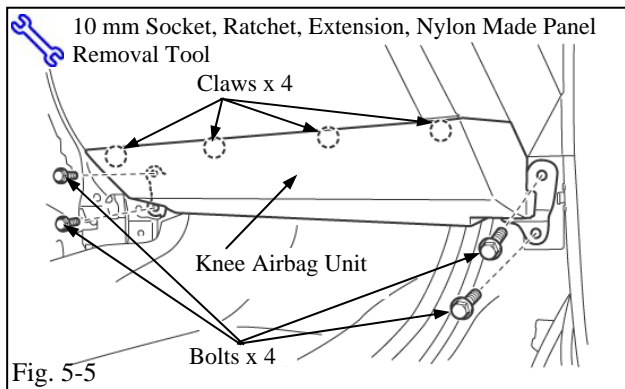
(c) Remove the cowl side trim board RH.

- (1) Remove the plastic nut on the top of the cowl side trim board RH. (Fig. 5-3)
- (2) Disengage the two (2) clips using the nylon made panel removal tool, and then remove the cowl side trim board RH.
(Fig. 5-3)



(d) Remove the instrument panel side cover RH.

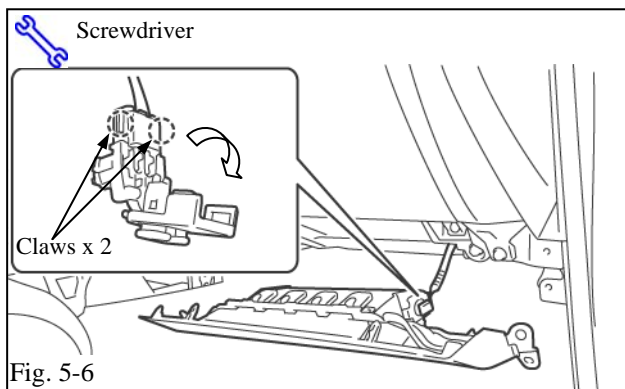
- (1) Disengage the six (6) claws, and then remove the instrument panel side cover RH. (Fig. 5-4)



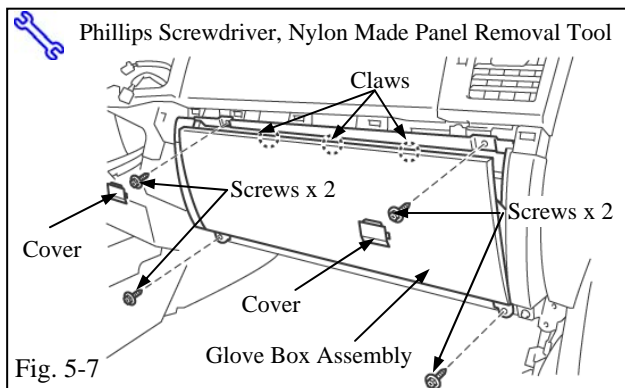
(e) Remove the glove box assembly.



- (1) Remove the four (4) bolts from the knee airbag unit under the glove box, and then carefully pull out the knee airbag unit forward so that you can see the connector. (Fig. 5-5) Torque on reassembly 10 N•m (7 lbf•ft).

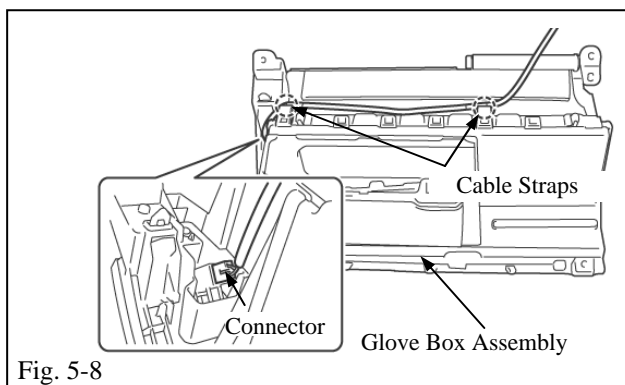


- (2) Disconnect the connector of the knee airbag unit using a fine-tipped screwdriver, and then remove the knee airbag unit. (Fig. 5-6)

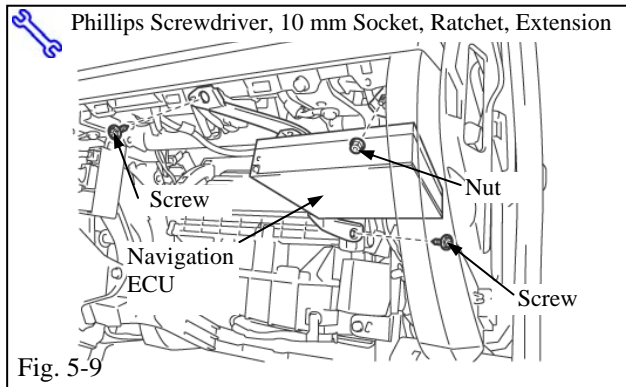


- (3) Remove the bolt covers on the top of the glove box. Then, remove the two (2) screws on the top and the two (2) screws on the bottom of the glove box. (Fig. 5-7)

- (4) Disengage the three (3) claws on the top of the glove box, and then carefully pull out the glove box forward so that it does not drop.

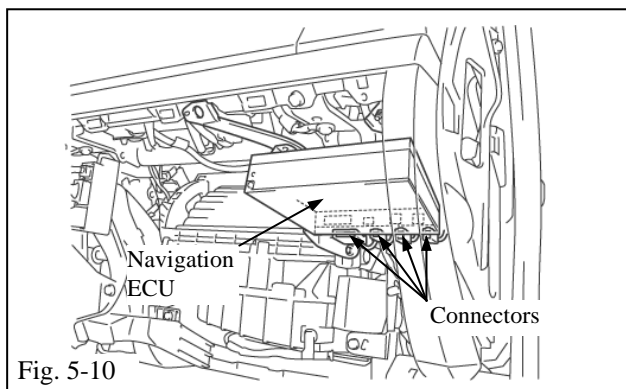


- (5) Disconnect the connector of the glove box illumination light, and then remove the glove box. (Fig. 5-8)

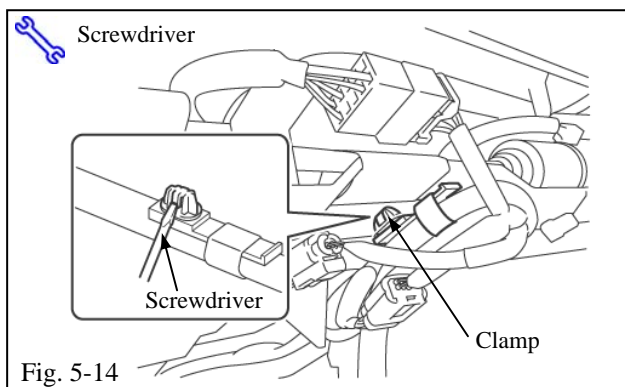
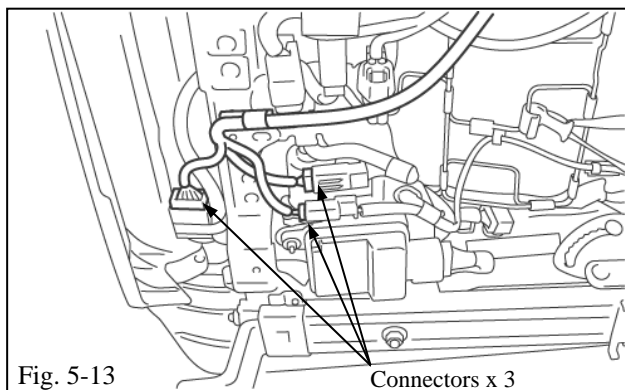
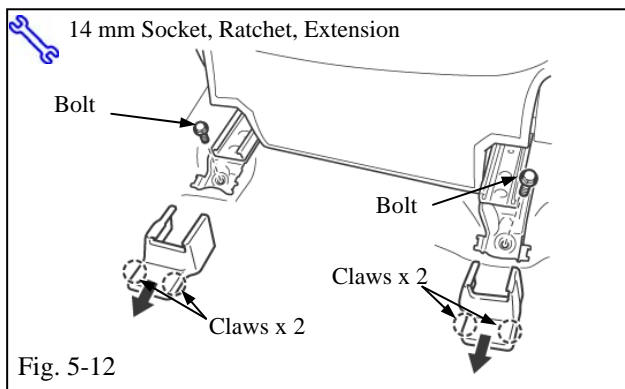
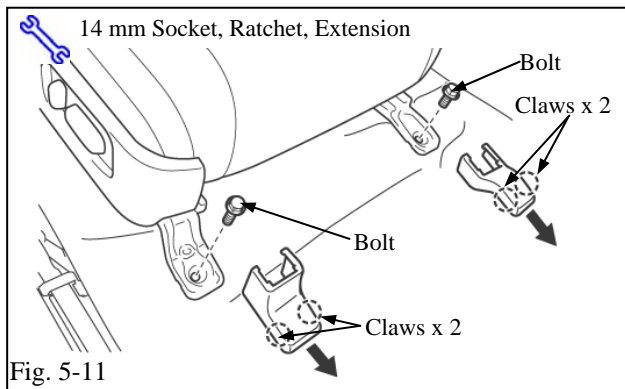


(f) Remove the navigation ECU.
(Model with Navigation)

- (1) Remove the one (1) nut, the one (1) screw on the top and the one (1) screw on the bottom of the navigation ECU. (Fig. 5-9)



- (2) Disconnect the connectors of the navigation ECU, and then remove the navigation ECU. (Fig. 5-10)



(g) Remove the front passenger seat.

- (1) Remove the headrest.
- (2) Connect the negative battery cable and slide the seat to the rearmost position.
- (3) Remove the front side seat track outer covers.
- (4) Remove the front installation bolts.
(Fig. 5-11)
- (5) Slide the seat fully forward.
- (6) Remove the rear side seat track outer covers.
- (7) Remove the rear installation bolts.
(Fig. 5-12)
- (8) Slide the seat to the center of the seat track.
- (9) Disconnect the negative battery cable.

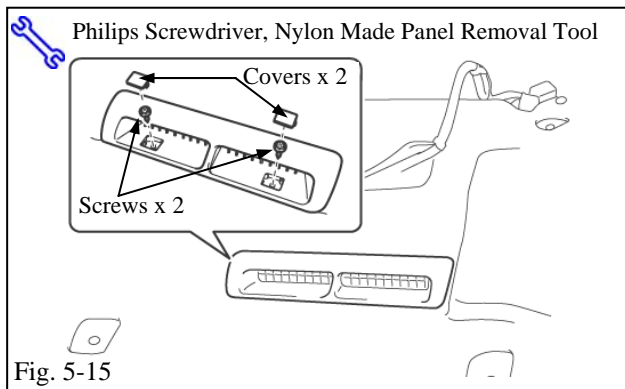
NOTE: After disconnecting the negative battery cable, wait 90 seconds before performing the next task.

- (10) Push the seat over towards the rear and remove the three (3) seat harness connectors. (Fig. 5-13)

- (11) Remove the seat harness clamp.

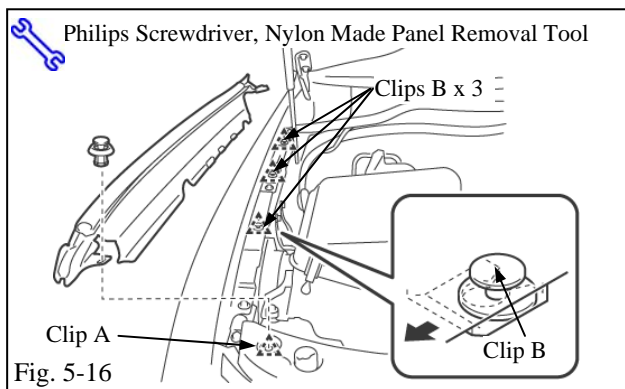
NOTE:

- When removing the harness clamp, unlock the lock using a fine-tipped screwdriver or similar tool shown in the illustration, and then remove it. (Fig. 5-14)
- Be careful not to damage the harness clamp by forcibly removing it.
- The seat will be tilted rearward to install the tuner in a later process



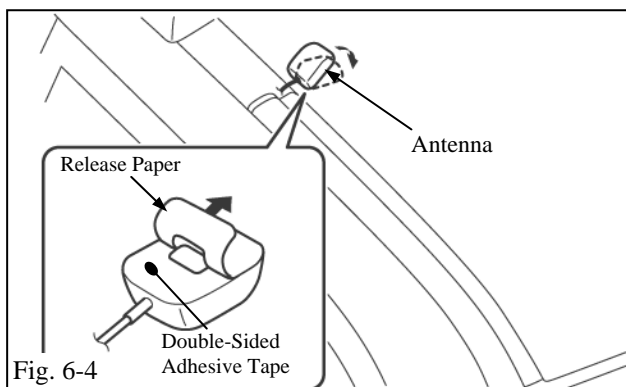
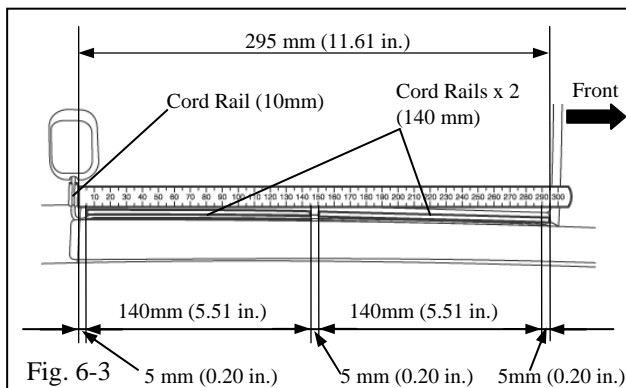
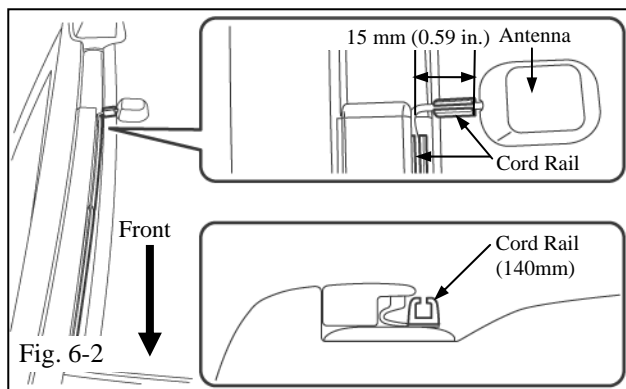
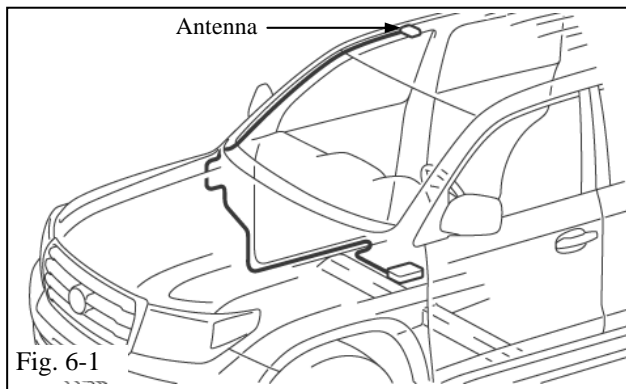
(h) Remove the heater duct cover.

- (1) Remove the two (2) covers using the nylon made panel removal tool.
(Fig. 5-15)
- (2) Remove the two (2) screws, and then remove the cover of the heater duct.
(Fig. 5-15)



(i) Remove the cover on the right of the engine compartment.

- (1) Disengage the clip A, and disengage the clips B by sliding it forward. (Fig. 5-16)



6. Antenna Installation and Wiring

Antenna installation and wiring should be performed as shown through the following steps. (Fig. 6-1)

(a) Clean the antenna and cord rails mounting area with 3M™ Prep Sol-70 and cleaning method. (Fig. 6-2)

(b) When cleaning with 3M™ Prep Sol-70 and cleaning method,



(1) Always use a clean (lint free scratch resistant) soft cloth (or wipe), and clean a small area at a time (~ 3 ft. x 3 ft. max.).

(2) Shake well.



(3) Apply 3M™ Prep Sol-70 to cloth or wipe. Do not spray cleaning solution directly on any vehicle surfaces.

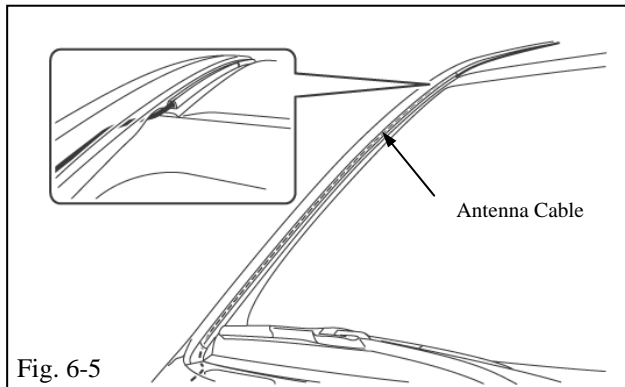
(4) Clean surface thoroughly and wipe dry immediately with a new clean cloth. Do not allow cleaner to air dry.

(c) Temporarily place the antenna at the position as shown, and confirm the installation position. (Fig. 6-2)

(d) Attach the cord rails on the right front of the roof. (Fig. 6-3)

NOTE: Make a gap of 5 mm (0.20 in.) between the cord rails to prevent them from coming off because of thermal expansion. (Fig. 6-3)

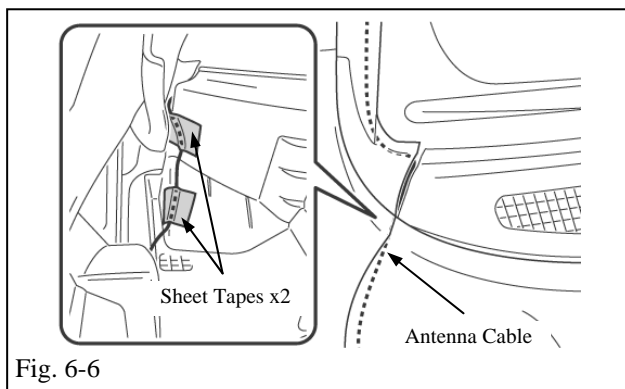
(e) Remove the release paper from the antenna, and then install the antenna from the roof rail side as shown. (Fig. 6-4)



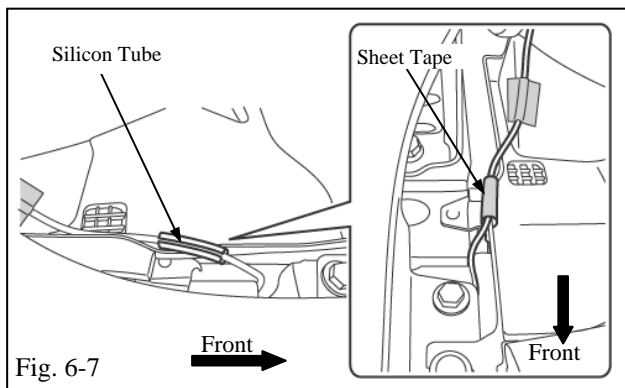
- (f) Bury the antenna cable into the front windshield weather strip using the panel clip removal tool or tools. (Fig. 6-5)

NOTE:

- Bury the antenna cable all the way into the weather strip.
- Check for any gaps between the weather strip and the windshield.

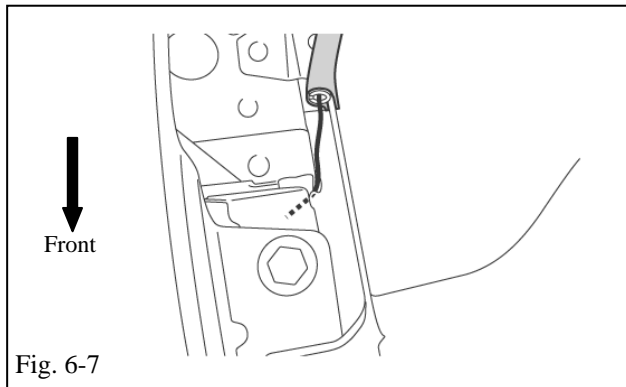


- (g) Run the antenna cable from the bottom of the weather strip as shown, and then secure the antenna cable with the two (2) sheet tapes. (Fig. 6-6)

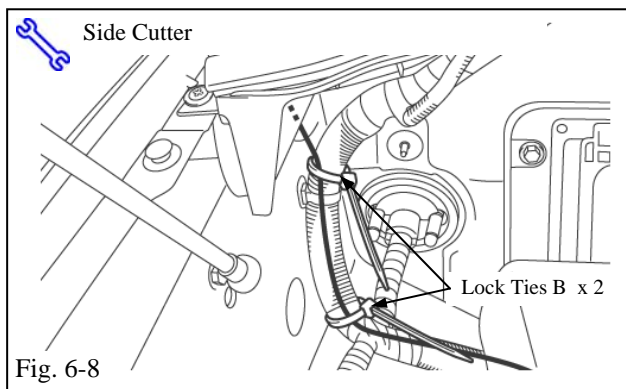


- (h) Put the antenna cable through the silicon tube, cross it over the edge as shown, and then secure it with the sheet tape. (Fig. 6-7)

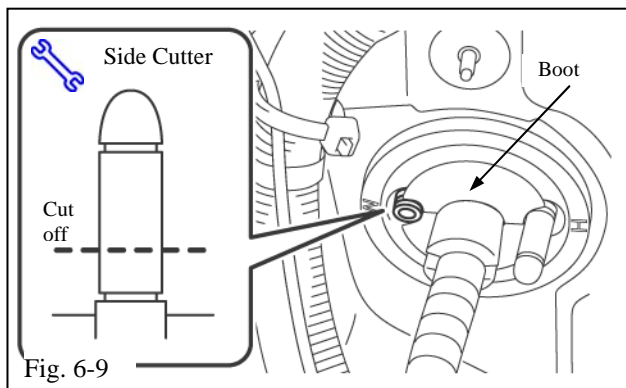
NOTE: When securing the silicon tube with the sheet tape, turn the cut line of the silicon tube sideways.



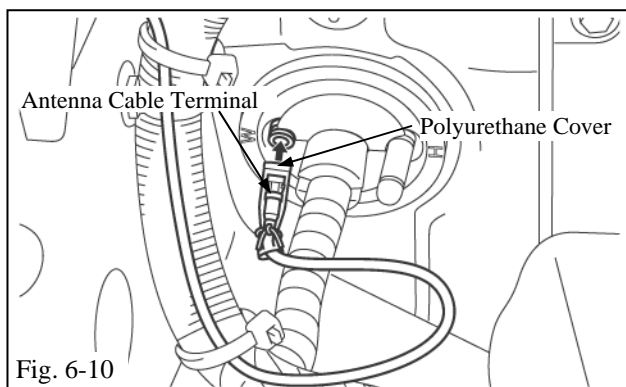
- (i) Drop the antenna cable through the sponge part to the bottom of the engine compartment. (Fig. 6-7)



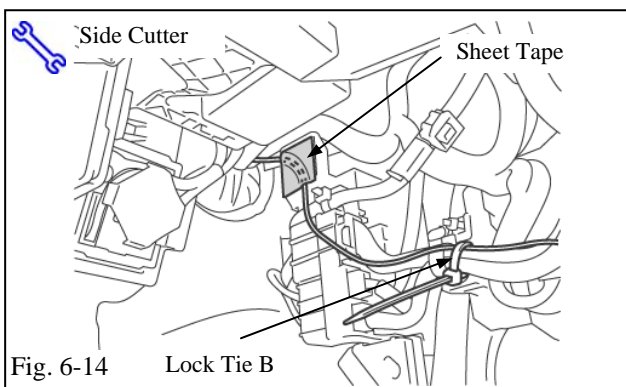
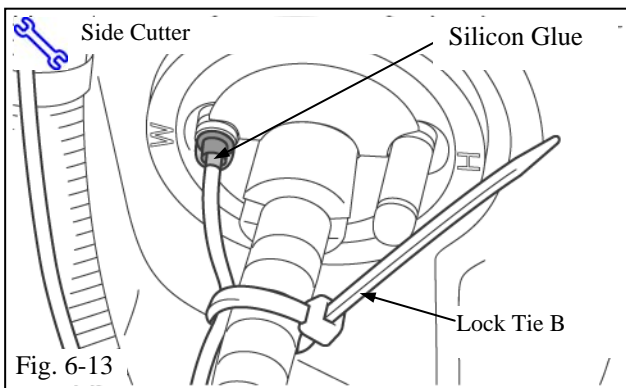
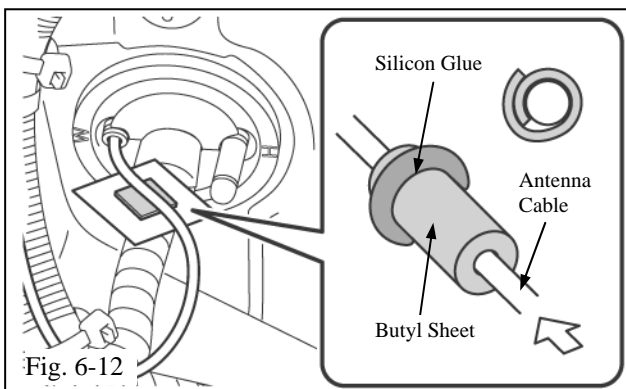
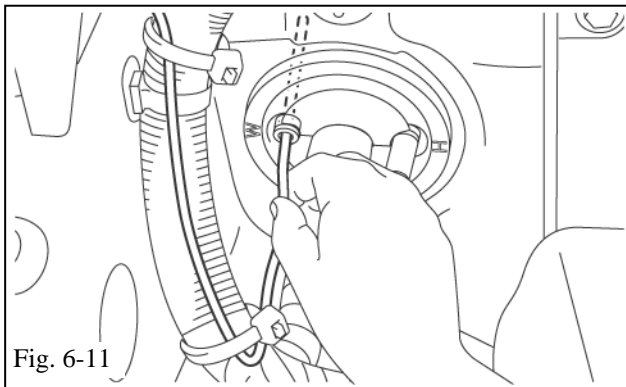
- (j) Secure the antenna cable to the vehicle wiring harness in the engine compartment with the two (2) lock ties B. (Fig. 6-8)
- (k) Use the side cutter to cut off the excess lock ties length.



- (l) Cut off the boot on the "W" side in the engine compartment. (Fig. 6-9)



- (m) Insert the antenna cable terminal with the polyurethane cover attached. (Fig. 6-10)
- (1) When the antenna cable terminal passes through to the cabin, pull the antenna cable into the cabin.



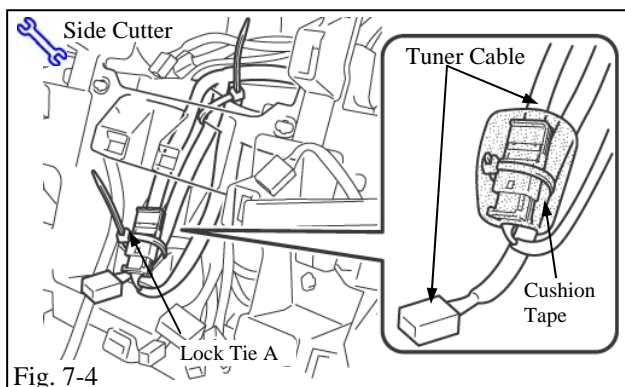
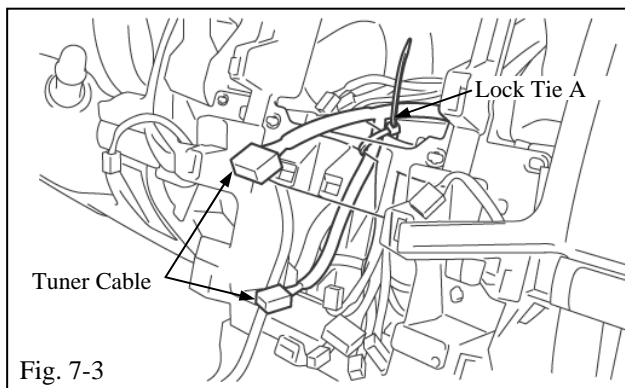
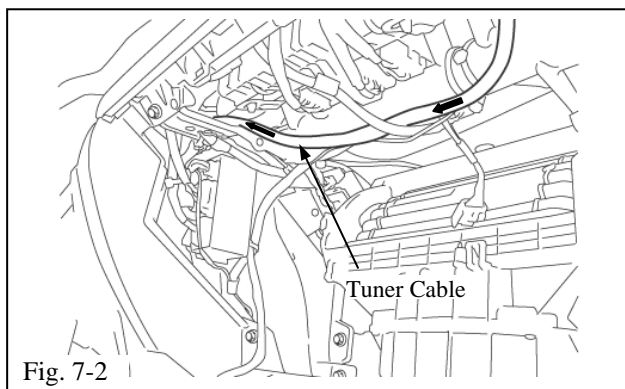
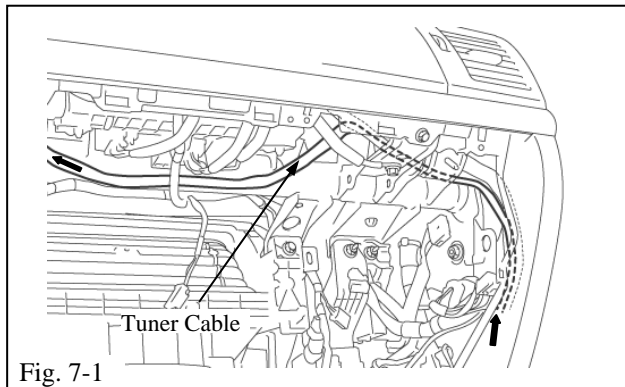
(n) Prevent water intrusion to the cabin.

- (1) Pull the antenna cable a little back to the engine compartment, and then define the position to secure with slack in the antenna cable as shown. (Fig. 6-11)
- (2) Pull the antenna cable a little paying attention not to pull the antenna cable terminal back to the engine compartment. Then, wrap the butyl sheet (15 x 15 mm, 0,59 x 0.59 in.) around the predefined position to secure. (Fig. 6-12)
- (3) Apply the silicon glue on the outside of the butyl sheet, and then insert the antenna cable into the boot again. (Fig. 6-12)
- (4) Apply more silicon glue from the outside to make the boot hole airtight. (Fig. 6-13)
- (5) Secure the antenna cable to the vehicle wiring harness in front of the boot with the lock tie B. (Fig. 6-13)
- (6) Use the side cutter to cut off the excess lock tie length.

(o) Wiring in the cabin

- (1) Secure the antenna cable at the position as shown with the sheet tape.
- (2) Secure the antenna cable to the vehicle wiring harness under the glove box with the lock tie B. (Fig. 6-14)
- (3) Use the side cutter to cut off the excess lock ties length.

NOTE: For the rest of the installation procedures, see step (e) on page 20.



7. Wire, to Radio Installation (Tuner Cable) Wiring

(a) Wiring between the radio and the glove box

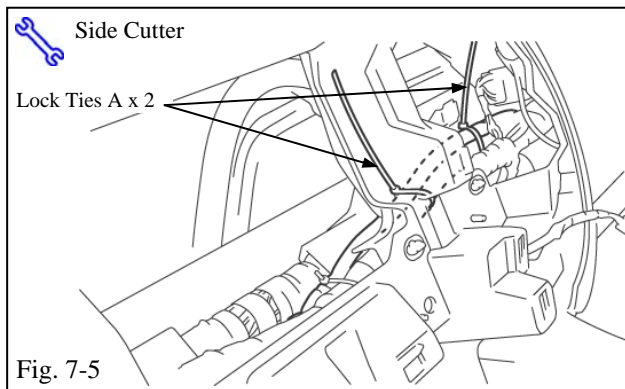
- (1) Pass the tuner cable through to the glove box from the position on the cowl side as shown in the figure. (Fig. 7-1)

- (2) Run it along the tuner cable on the rear of the reinforcement bar of the upper blowers. (Fig. 7-2)

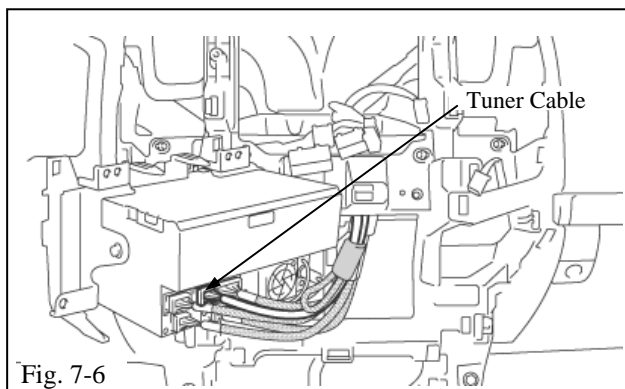
(b) Center part of instrument panel (Navigation model)

- (1) Pull the tuner cable from where the glove box is installed as shown in the figure. (Fig. 7-3)
- (2) Align the branching point of the tuner cable to the branching point of the vehicle wiring harness, and then secure them with one (1) lock tie A. (Fig. 7-3)
- (3) Connect the tuner cable to the radio harness. (Fig. 7-4)
- (4) Secure the tuner cable to the radio harness with one (1) lock tie A. (Fig. 7-4)
- (5) Use the side cutter to cut off the excess two (2) lock ties length.
- (6) Wrap cushion tape around the connections.

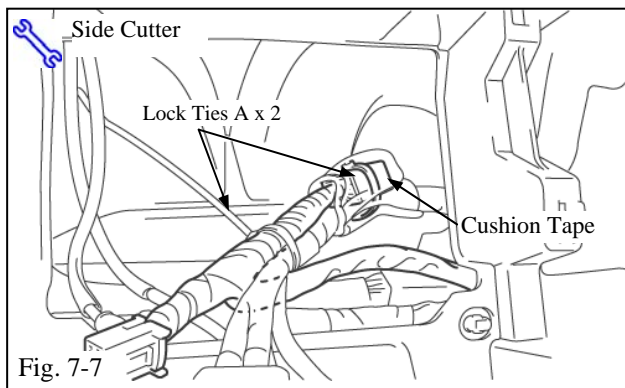
NOTE: Roll up the cushion tape on the harness with the connector fixed using the lock tie A. (Fig. 7-4)



- (7) Secure the tuner cable with the two (2) lock ties A. (Fig. 7-5)
- (8) Use the side cutter to cut off the excess lock ties length.

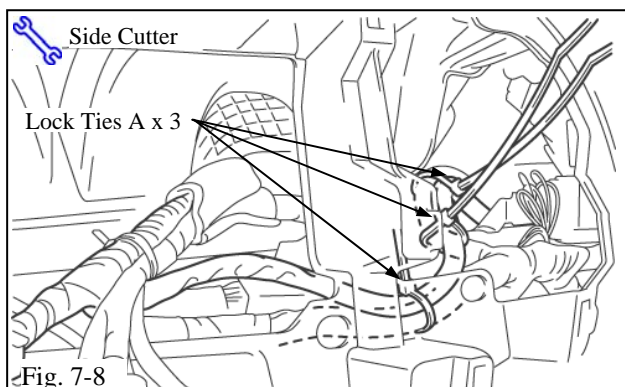


- (9) Set the tuner and connect the disconnected connectors and tuner cable to their original positions. (Fig. 7-6)

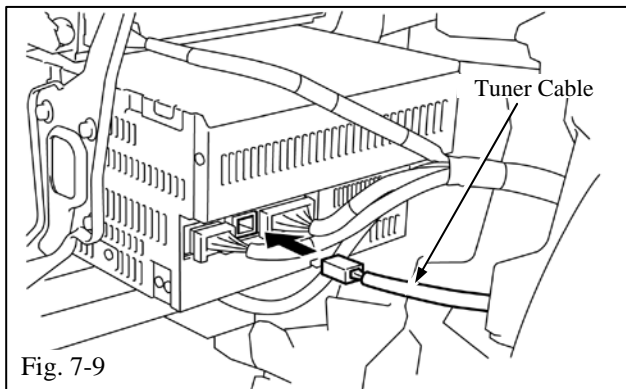


(c) Center part of instrument panel (Audio model)

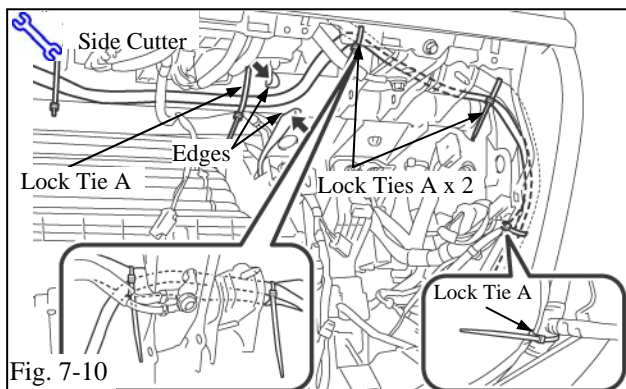
- (1) Secure the tuner cable with the two (2) lock ties A. (Fig. 7-7)
- (2) Use the side cutter to cut off the excess lock ties length.
- (3) Wrap cushion tape around the female connector.



- (4) Secure the tuner cable with the three (3) lock ties A. (Fig. 7-8)
- (5) Use the side cutter to cut off the excess lock ties length.



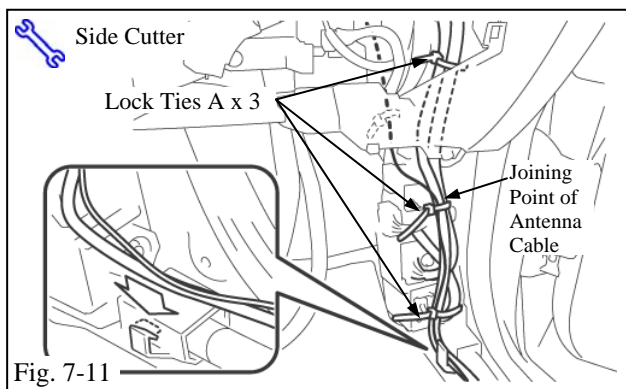
- (6) Connect the tuner cable to the audio unit, and then connect the disconnected connectors to their original positions. (Fig. 7-9)



- (d) Glove box installation area (Audio model and navigation model)

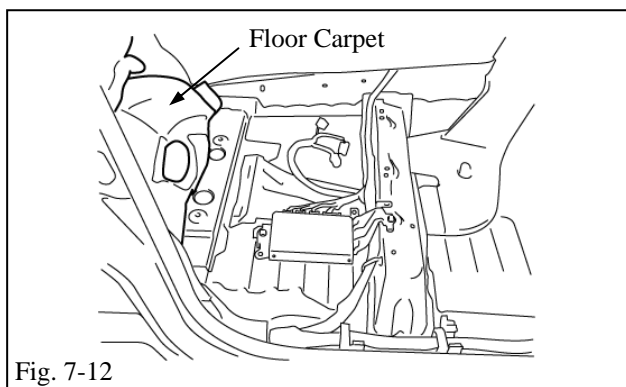
- (1) Secure the tuner cable with the four (4) lock ties A. (Fig. 7-10)
- (2) Use the side cutter to cut off the excess lock ties length.

NOTE: Avoid contact of the tuner cable with any edges.



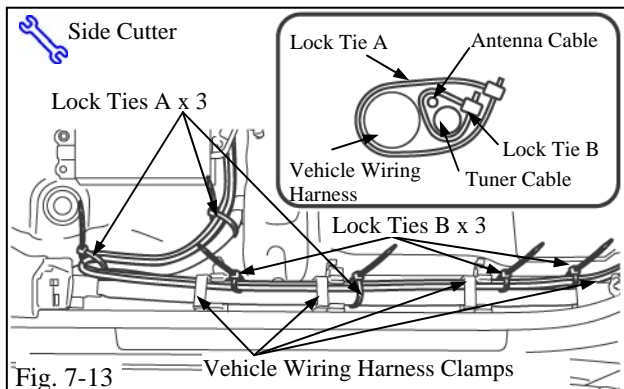
- (e) Wiring between the glove box and the front door scuff plate (Joined with the antenna cable)

- (1) Secure the tuner cable with the three (3) lock ties A. (Fig. 7-11)
- (2) Use the side cutter to cut off the excess lock ties length.

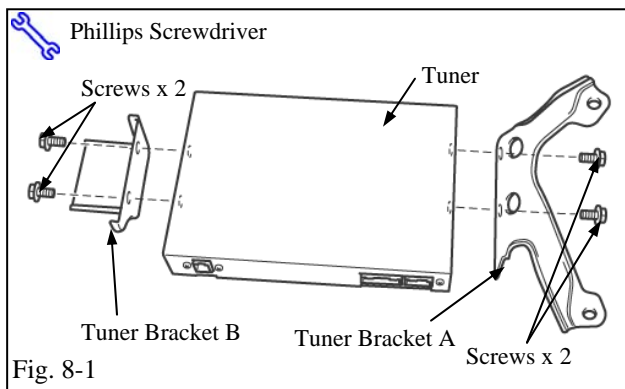


- (f) Wiring between the front door scuff plate and the passenger seat

- (1) Carefully tilt the passenger seat rearward to access the floor carpet. (Fig. 7-12)



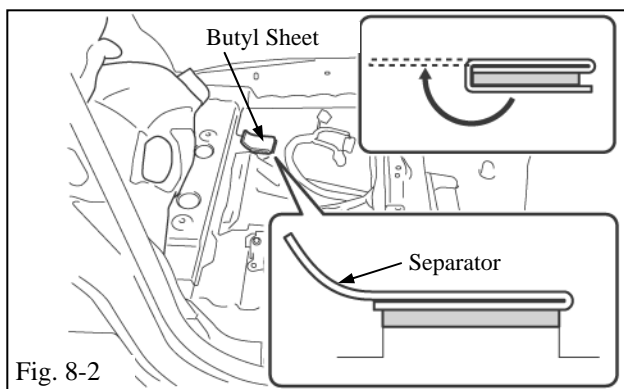
- (2) Run the tuner cable and the antenna cable along the vehicle wiring harness as shown in the illustration. (Fig. 7-13)
- (3) Secure the three (3) positions with the lock ties A, and secure the three (3) positions with the lock ties B.
- (4) Use the side cutter to cut off the excess lock ties length.



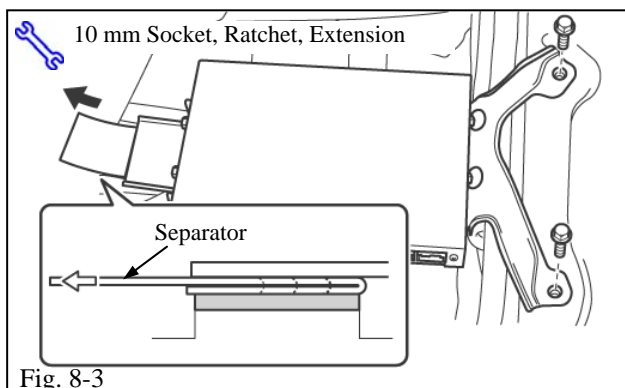
8. Receiver Assembly Radio (Tuner) Connection and Installation

- (a) Attach the tuner to the tuner brackets A and B. (Fig. 8-1)

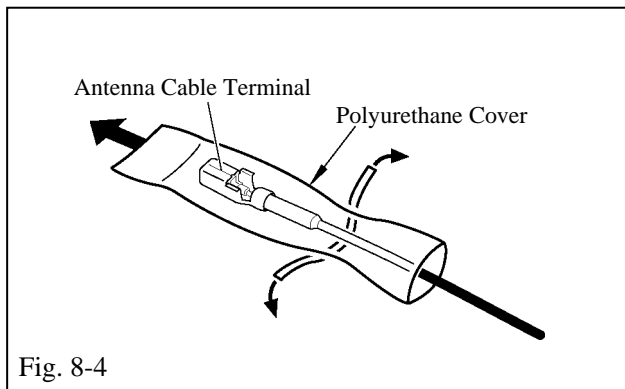
- (b) Install the tuner on the vehicle body (bottom front on the passenger's side.)



- (1) Clean the bracket B mounting surface of the vehicle floor pan and the bracket B with 3M™ Prep Sol-70.
- (2) Apply a butyl sheet (38 x 38mm, 1.50 x 1.50 in.) on the floor pan. (Fig. 8-2)
- (3) Place the tuner in the predefined position.

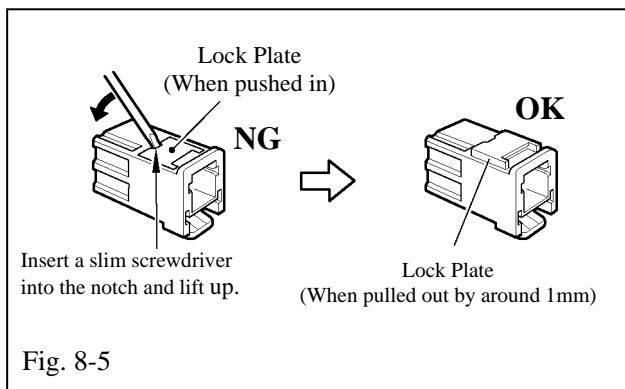


- (4) Fasten the bracket A with the two (2) bolts. (Fig. 8-3)
- (5) Pull out the separator of the butyl sheet. (Fig. 8-3)
- (6) Apply pressure on the bracket B from above.



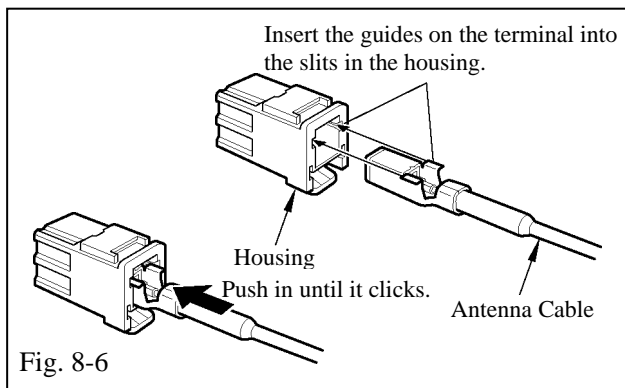
(c) Attach housing to the antenna cable terminal.

- (1) Remove the polyurethane cover from the terminal. (Fig. 8-4)

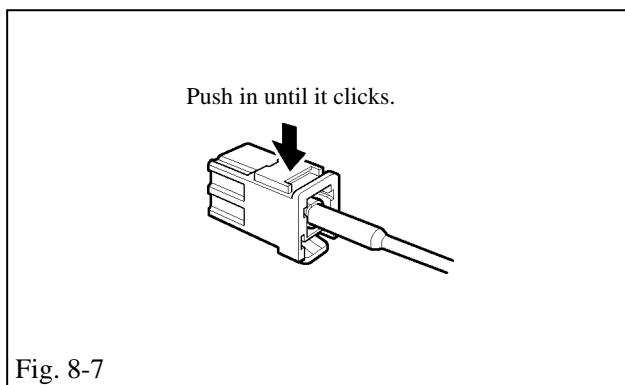


- (2) If the lock plate of the housing is pushed in, pull it out. (Fig. 8-5)

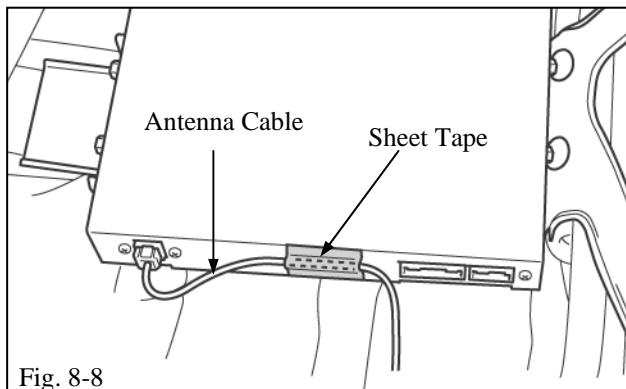
NOTE: This step is not required if the lock plate is already pulled out.



- (3) Push the terminal into the housing. (Fig. 8-6)

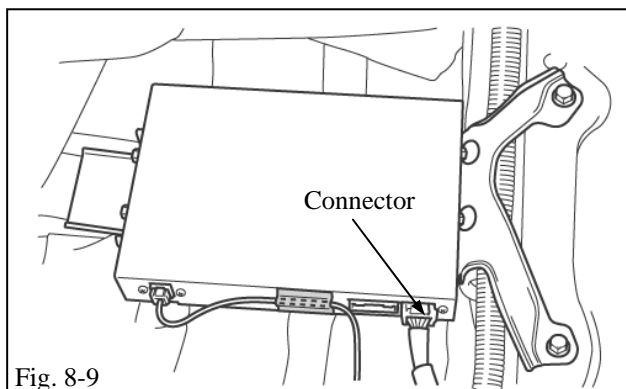


- (4) Push the lock plate in. (Fig. 8-7)

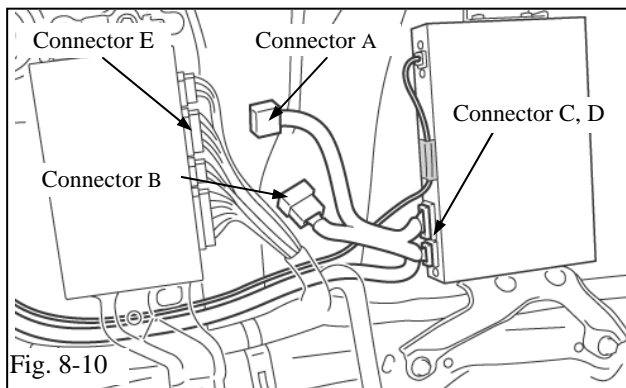


(d) Connect the antenna cable to the tuner.
(Fig. 8-8)

- (1) Connect the antenna connector to the tuner, and then secure the connection with the one (1) sheet tape.

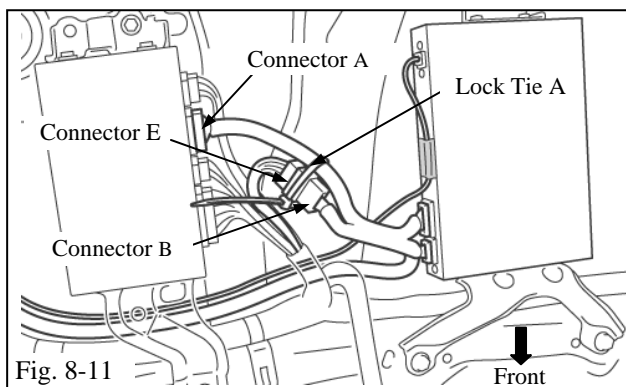


(e) For model without RSE (Rear Seat Entertainment System), connect the tuner cable to the tuner. (Fig. 8-9)

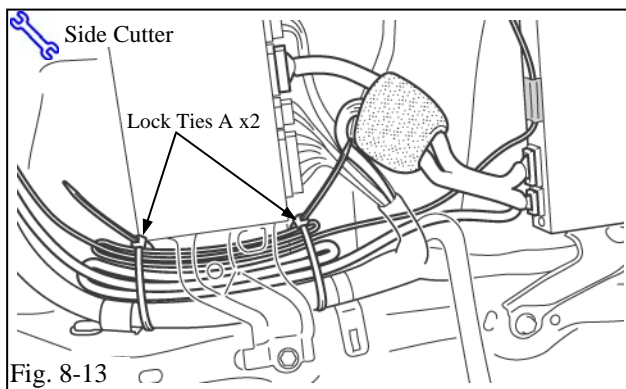
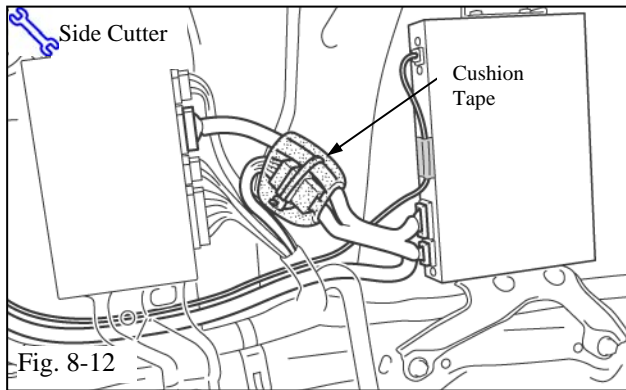


(f) For RSE (Rear Seat Entertainment System) model, connect the tuner cable to the tuner.
(Fig. 8-10)

- (1) Connect the connectors C and D to the XM tuner.
- (2) Disconnect the connector E from the RSE controller. Instead, connect the connector A to the RSE controller.



- (3) Connect the connector B to the connector E, and then secure them to the tuner cable with the lock tie A.
(Fig. 8-11)



- (4) Cut off the excess lock tie length, and then wrap the cushion tape around it. (Fig. 8-12)

- (g) Secure the tuner cable.

- (1) Secure the tuner cable and the antenna cable with the two (2) lock ties A as shown. (Fig. 8-13)
- (2) Use the side cutter to cut off the excess lock ties length.

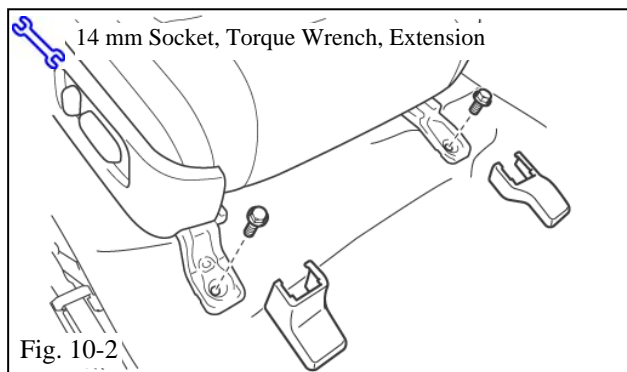
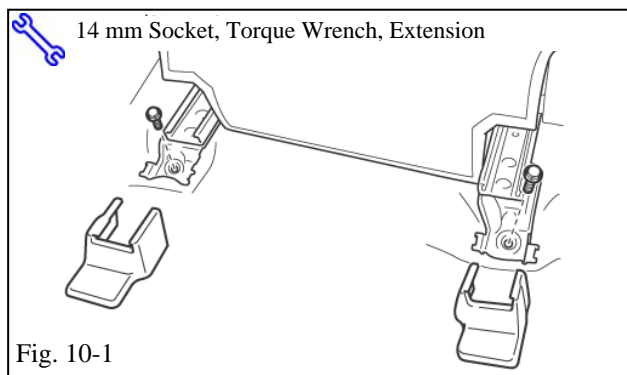
9. In Process Functional Test.

- (a) Temporarily reconnect the negative battery cable.
- (b) Turn the engine start switch to ON (ACC).
- (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) Turn the engine start switch to OFF.
- (f) Disconnect the negative battery cable.



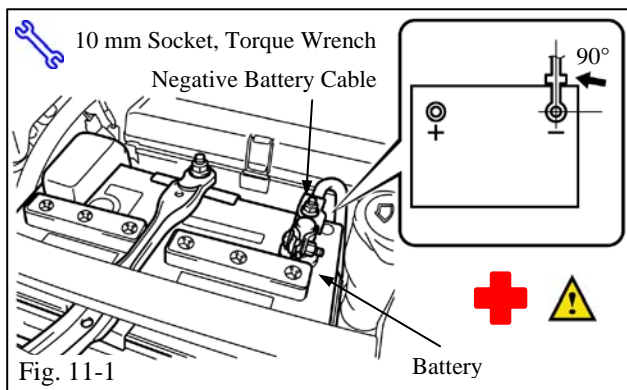
10. Complete the Reassembly of Vehicle.

- (a) Reconnect any disconnected connectors.
- (b) Reinstall the front seat. (Fig. 10-1, Fig. 10-2)
 - (1) Reinstall the four (4) bolts loosely, and then tighten them in the following order:
 - Rear inner bolt
 - Rear outer bolt
 - Front inner bolt
 - Front outer bolt

 (2) Tighten bolts to 42 N•m (32 lbf•ft)

- (c) Verify the panels fit together properly with no uneven gaps between them.
- (d) Clean up and remove any trash.
- (e) Place the owner “XM Satellite Radio” brochure in the glove box.

11. Reconnect Negative Battery Cable



- (a) Reconnect the vehicle’s negative battery cable (Fig. 11-1).
 - (1) Position the negative terminal to the battery as shown (original factory position).
 - (2) Tighten the nut to 4.1 N•m (36 lbf•in).
 - (3) Do not touch the positive terminal with any tool when replacing the cable.

TOYOTA LAND CRUISER 2008 - XM SATELLITE RADIO

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

| Check: | Look For: |
|--|--|
| <u>Accessory Function Checks</u> | |
| <input type="checkbox"/> Satellite radio | Verify the proper operation of the satellite radio.* |
| <input type="checkbox"/> Audio head unit | Verify the proper operation of the audio head unit.* *: Refer to the XM Satellite Radio Brochure and audio head unit owner's manuals. |
| <input type="checkbox"/> Navigation system | Execute DTC check, and confirm there is no error. (Refer to the LAND CRUISER Repair Manual.) |
| <u>Vehicle Function Checks</u> | |
| <input type="checkbox"/> Hazard switch | Proper operation of the hazard switch. |
| <input type="checkbox"/> Passenger's seat belt reminder light | Proper operation of the passenger's seat belt reminder light. |
| <input type="checkbox"/> Removed seat | Verify the removed seat is securely fastened. |
| <input type="checkbox"/> Seat lock mechanism and power seat operation | Verify the proper operation of the removed seat lock mechanism and power seat system. |
| <input type="checkbox"/> SRS warning light | Verify the SRS warning light illuminates for approximately 6 seconds with the engine/start switch ON, and then goes out. |
| <input type="checkbox"/> HVAC (heating ventilation and air conditioning) system | Proper operation of the air conditioning system. |
| <input type="checkbox"/> SSP function | Verify the radio SSP function by pressing the "SSP" button on the audio head unit for 5 seconds. |
| <input type="checkbox"/> Instrument panel switches functions (Any electrical connector removed in this manual) | Verify the proper operation of the instrument panel switches functions. |