

Part Number: 86100-0W090

Section I - Installation Preparation

Kit Contents

Item #	Quantity Req'd.	Description
1	1	Satellite Tuner
2	1	Tuner Cable
3	1	Tuner Bracket
4	1	Antenna
5	1	Spacer
6	3	Hardware Bags
7	1	xM™ Satellite Radio Brochure

Hardware Bag Contents 1

Item #	Quantity Req'd.	Description
1	1	Cushion Tape (50 x 100 mm)
2	2	Wire Tie (AVC-LAN)

Hardware Bag Contents 2

Item #	Quantity Req'd.	Description
1	1	Nut (M16)
2	4	Screw (M5 x L6)
3	1	Retainer
4	1	Retainer Screw (M4 x L12)

Hardware Bag Contents 3

Item #	Quantity Req'd.	Description
1	1	Template
2	1	Nylon Tape (30 x 30 mm)
3	8	Urethane Tape (30 x 30 mm)

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1A	1	Cover, Compartment Trim (P/N 64712-50010-CD (WITHOUT rear air conditioner.))
1B	1	Cover, Compartment Trim (P/N 64712-50020-CD (WITH rear air conditioner.))
2	1	Clip
3A	7	Rivet (WITHOUT rear air conditioner)
3B	8	Rivet (WITH rear air conditioner)

Conflicts

Note:

Recommended Tools

Safety Tools	
Safety Goggles	
Vehicle Protection	Fender Cover (Blanket)
Special Tools	
Non-intrusive IR	
Temp Probe/Gun	
Installation Tools	
Ratchet	
Extension	
Socket	10 mm
Screwdrivers	Phillips, and Flat Blade
Masking Tape	50 mm wide
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Rivet Gun	Hand or Air
Utility Knife	or Scissors
Marker Pen	
Torque Wrench	
Drill Motor	
Drill Bits	5 mm, & 8 mm
Tape Measure	
Special Chemicals	
Cleaner	3M™ Prep-Solvent-70

General Applicability






Note:

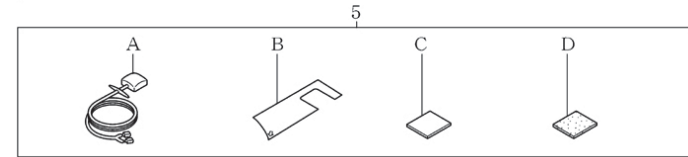
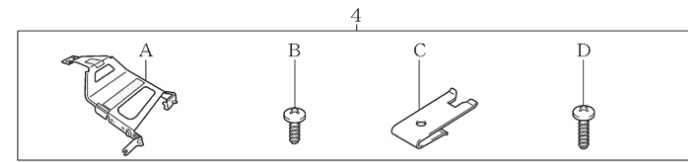
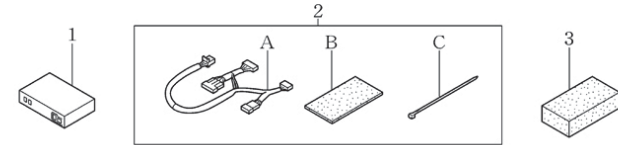
Recommended Sequence of Application

Item #	Accessory
1	
2	
3	

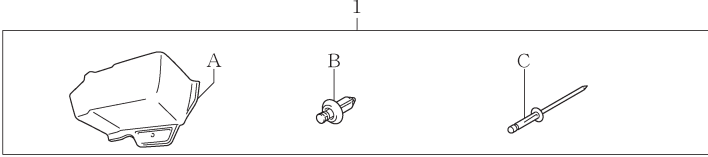
*Mandatory

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.
	CRITICAL PROCESS: Proceed with caution to ensure a quality installation.
	GENERAL PROCESS: This highlights specific processes to ensure a quality installation.
	TOOLS & EQUIPMENT: Calls out the specific tools and equipment recommended for this process.



Item #	Parts Name	Qty
1	Satellite Tuner	1
2	A Tuner Cable	1
	B Cushion Tape (50 mm x 100 mm)	1
	C Wire Tie	2
3	Spacer	1
4	A Tuner Bracket	1
	B Screw (M5 x L6)	4
	C Retainer	1
	D Retainer Screw (M4 x L12)	1
5	A Antenna	1
	B Template	1
	C Nylon Tape (30 mm x 30 mm)	1
	D Urethane Tape (30 mm x 30 mm)	8

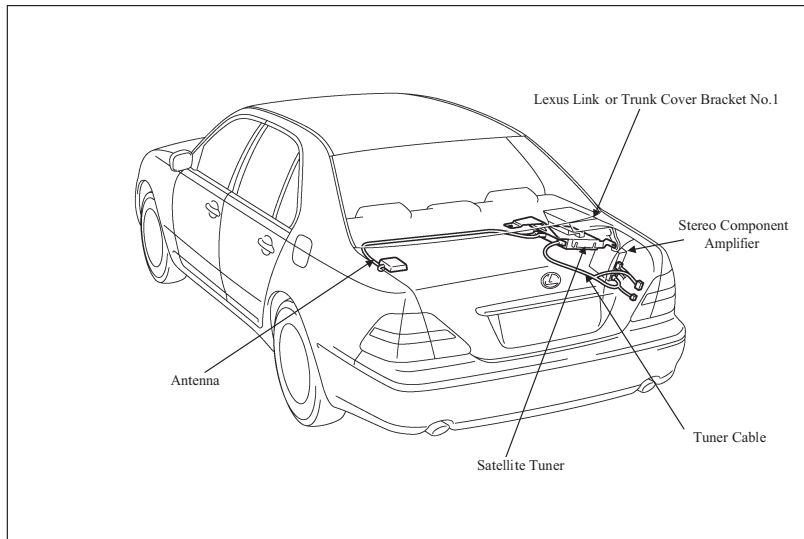


(For vehicles without rear air conditioner)

Item #	Parts Name	Qty
1	A Cover, luggage compartment trim	1
	B Clip	1
	C Rivet	7

(For vehicles with rear air conditioner)

Item #	Parts Name	Qty
1	A Cover, luggage compartment trim	1
	B Clip	1
	C Rivet	8



Section II - Installation Procedure

NOTES:

- Removed Parts:-**
- STOP** Place all removed parts on a protected surface.
- Connectors:-**
- STOP** When disconnecting connectors, do not pull on the wires; pull on the connectors.
- Wire Ties:-**
- STOP** When using wire ties to secure harness, clip the wire ties after securing them.

A. Vehicle Disassembly.

1. Open the trunk first.
2. Remove the negative battery cable. (Fig. A-1)
- STOP**
 - i. Protect the fender before starting.
 - +** ii. Do not touch the positive terminal with any tool when removing cable.
3. Preinstall luggage compartment trim cover, mark the clip install hole with a marker pen. (Fig. A-2)
4. Remove the floor mat, deck trim side boards on both sides and rear floor finish plate.
 - i. Remove the two (2) clips and deck trim side boards on both sides. (Fig. A-3)
 - ii. Remove the two (2) bolts and two (2) luggage hold belt strikers. (Fig. A-4)
 - iii. Remove the five (5) clips and the rear floor finish plate. (Fig. A-4)

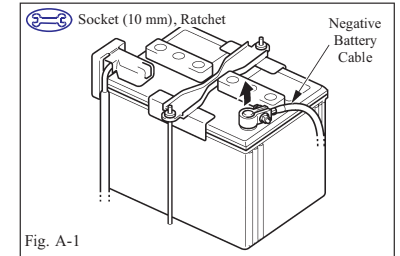


Fig. A-1

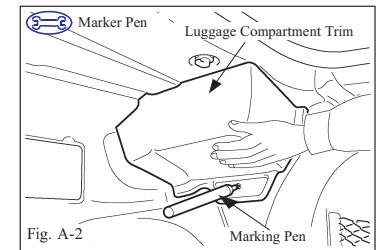


Fig. A-2

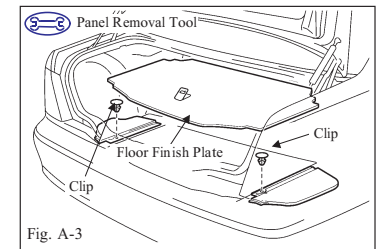


Fig. A-3

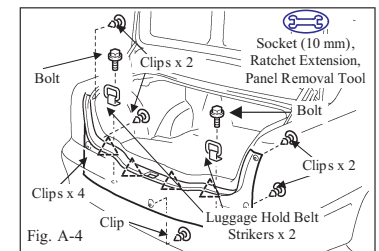


Fig. A-4

5. Remove the luggage compartment light.

- ➔ i. Using a nylon panel removal tool, push the claw on the out side of the luggage compartment light. (Fig. A-5).
- ii. Disconnect the connector and remove the luggage compartment light.

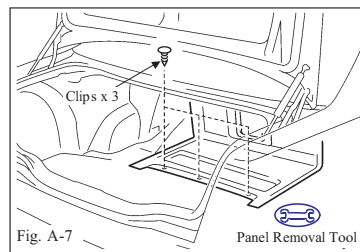
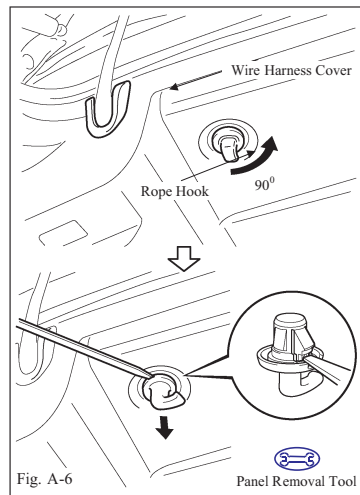
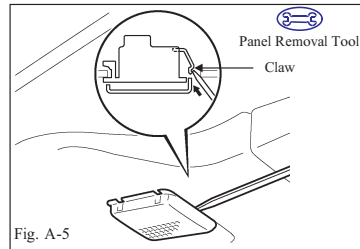
6. Remove the rope hook and wire harness cover.

- ➔ i. Using the nylon panel removal tool, remove the wire harness cover.
- ii. Remove the two rope hooks by rotating the hook 90 degrees counterclockwise, insert a nylon panel removal tool into a slot, and then push the claw to remove the hook.

FOR VEHICLES WITHOUT REAR AIR CONDITIONER. (Step A. 7.)

7. Remove the front luggage compartment trim as follows:

- i. Remove the front luggage compartment trim cover and RHS luggage compartment trim side cover.
- ii. Remove the three (3) clips. (Fig. A-7)

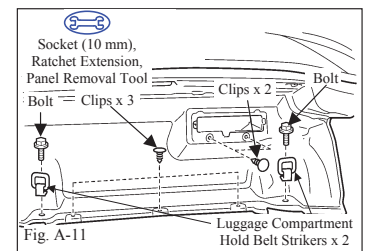
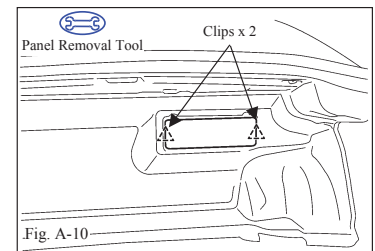
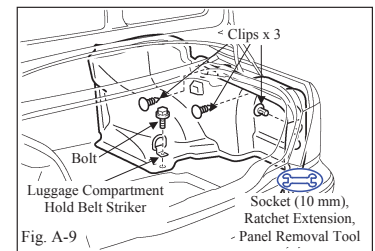
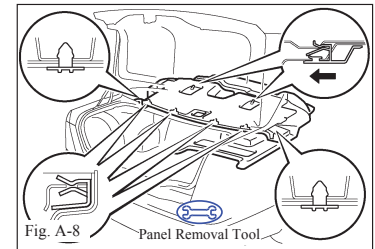


- ➔ iii. Disengage the trim hooks and remove the front luggage compartment trim cover as shown. (Fig. A-8)
- iv. Remove the bolt and luggage hold belt striker. (Fig. A-9)
- v. Remove the three (3) clips and luggage compartment trim side cover. (Fig. A-9)

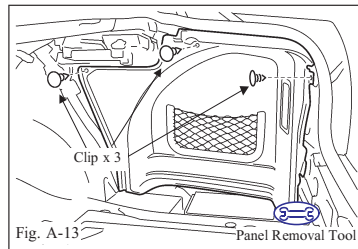
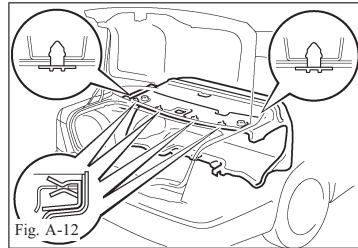
FOR VEHICLES WITH REAR AIR CONDITIONER. (Step A. 8.)

8. Remove the front luggage compartment trim as follows:

- ➔ i. Remove the front luggage compartment trim cover and RHS luggage compartment trim side cover.
- ii. Using a nylon panel removal tool, remove the cover. (Fig. A-10)
- iii. Remove the two (2) bolts and two (2) luggage hold belt strikers. (Fig. A-11)
- iv. Remove the five clips. (Fig. A-11)

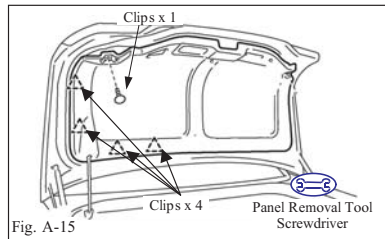
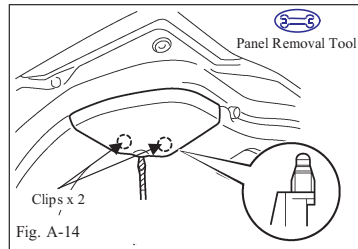


- v. Disengage the trim hooks and remove the front luggage compartment trim cover as shown in the illustration. (Fig. A-12)
- vi. Remove the three (3) clips and luggage compartment trim side cover. (Fig. A-13)



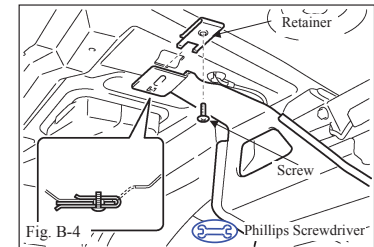
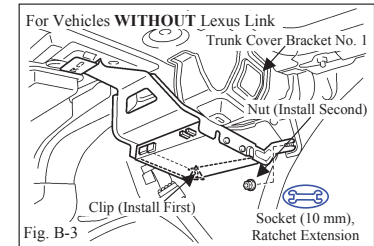
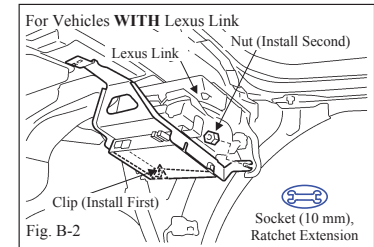
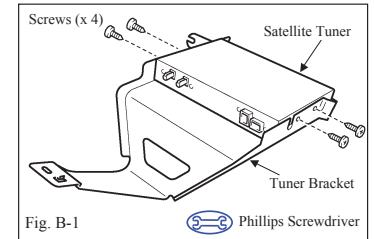
9. Lower the trunk lid trim as follows:

- i. Using a nylon panel removal tool, remove the rear combination light service cover on left side. (Fig. A-14)
- ii. Remove the five (5) clips. (Fig. A-15)



B. Installing the Satellite Tuner.

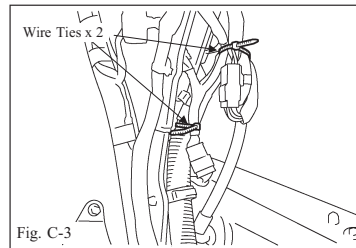
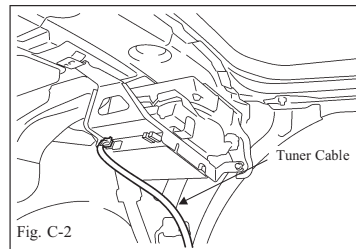
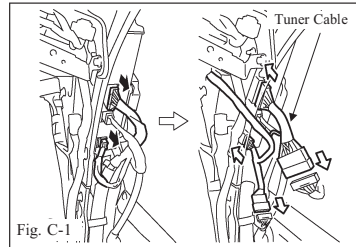
1. Install the four (4) screws and the tuner bracket onto the satellite tuner. (Fig. B-1)
 - i. Ensure that the orientation of the satellite tuner to the tuner bracket is correct. (Fig. B-1)
2. Remove the nut (Fig. B-2 or Fig. B-3) and retain.
3. Install the satellite tuner under the upper back panel with the nut removed in Step B. 2.
 - i. Install the clip before installing nut. (Fig. B-2)
 - ii. For vehicles **with** Lexus Link see (Fig. B-2)
 - iii. For vehicles **without** Lexus Link see (Fig. B-3)
4. Retainer installation. (Fig. B-4)
 - i. Sandwich the tuner bracket between the retainer.
 - ii. Push the retainer until the claw of the retainer touches the body.
 - iii. Align hole then fasten with retainer screw.



C. Installing the Tuner Cable.

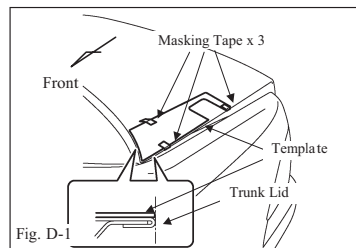
STOP NOTE: Be careful not to damage the wire harness on the vehicle side.

1. Disconnect the 20 pin and 24 pin stereo component amplifier connectors shown in Fig. C-1.
- ➔ 2. Connect the tuner cable between the stereo component amplifier and the two (2) connectors disconnected at Step C. 1.. (Fig. C-1)
3. Plug the tuner cable into the satellite tuner. (Fig. C-2)
4. Secure the tuner cable with two (2) wire ties as shown. (Fig. C-3)



D. Installing the Antenna.

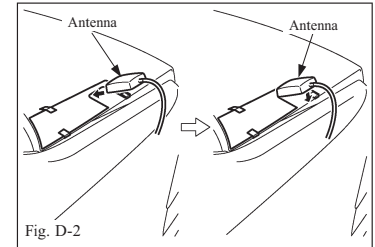
1. Mounting surface must be between 60°F and 90°F for optimum installation.
- ➔ 2. Clean the antenna mounting area with 3M™ Prep Solvent-70. (Fig. D-1)
- ➔ i. When cleaning with 3M™ Prep Solvent-70 follow the manufacturer's directions. Do not allow cleaner to air dry.
- ➔ 3. Leave the trunk lid partially open and position and tape the antenna mounting template onto the trunk lid as shown. (Fig. D-1)



4. Remove the release paper from the back of antenna, and then attach the antenna onto the trunk lid. (Fig. D-2)
5. Align the front edge of the antenna with the template as shown and install it carefully.

STOP

- i. Once attached, the antenna cannot be easily removed.
6. Remove, and then discard the mounting template.



E. Routing Antenna Cable.

1. Route the antenna cable beneath the trunk lid. (Fig. E-1)

➔

- i. Use cable packing, nylon tape and urethane tape to secure the antenna cable so it doesn't rub or pinch when closing the trunk lid.

➔

- ii. Clean the cable packing and tape mounting areas with 3M™ Prep Solvent-70 using the method defined in Step D. 2. i..

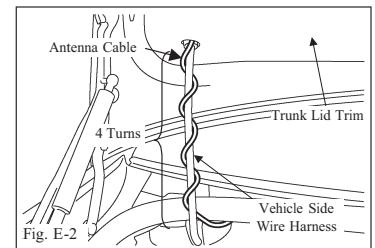
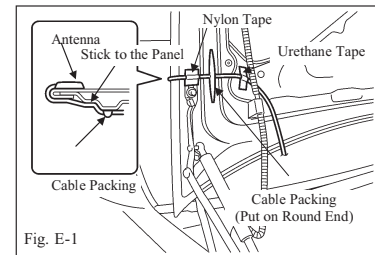
- iii. Position the end of the cable packing to the round end of the trunk lid where the weather-strip comes in contact with the cable.

2. Reinstall the trunk lid trim.

- i. Verify the antenna cable passes the right side of the vehicle wire harness, then install the trunk lid trim. (Fig. E-2)

➔

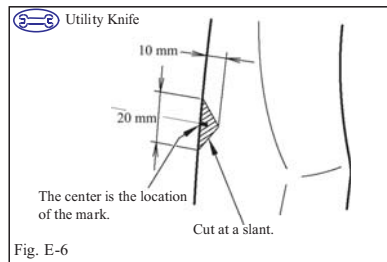
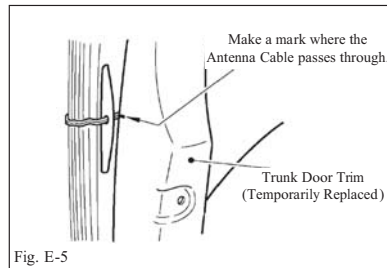
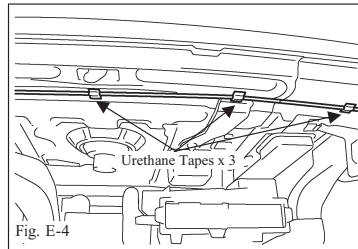
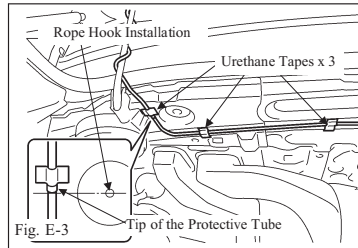
- ii. Winding gently, wrap the antenna cable four (4) turns around the existing wire harness. (Fig. E-2)



3. Route the antenna cable under the upper back panel.



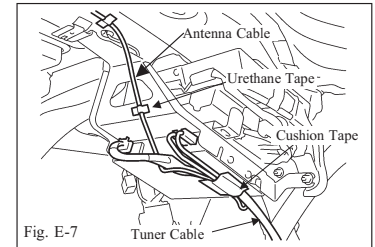
- i. Adjust the antenna cable so the tip of the protective tube of the antenna cable is aligned with the installation hole for the rope hook.
- ii. Apply three (3) urethane tapes at the locations shown. (Fig. E-3)
- iii. Apply three (3) urethane tapes at the locations shown. (Fig. E-4)
- iv. Temporarily replace the trunk lid trim, and make a mark on it where the antenna cable passes through. (Fig. E-5)
- v. Remove the trunk lid trim and make a cut of the size shown in the figure. (Fig. E-6)
- vi. Replace trunk lid trim.



4. Connect the antenna cable to the tuner.



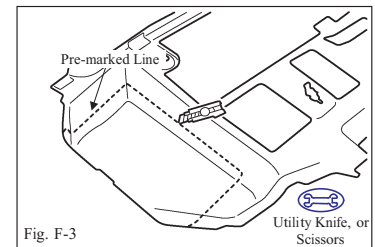
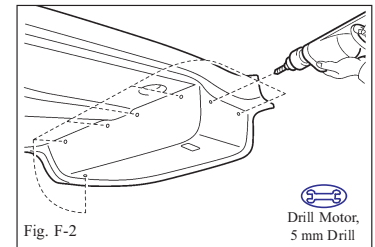
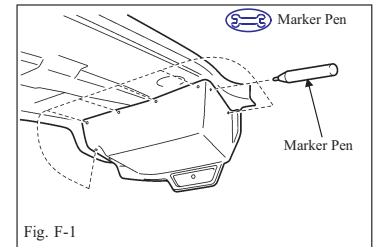
- i. Do not allow the antenna cable to come in contact with the edge of the tuner bracket.
5. Apply one (1) urethane tape at the location shown. (Fig. E-7)
6. Bundle and secure extra cable slack to the bottom of the tuner using cushion tape. (Fig. E-7)



F. Installing Luggage Compartment Trim Cover.

FOR VEHICLES WITHOUT REAR AIR CONDITIONER. (Steps F. 1. - F. 3.)

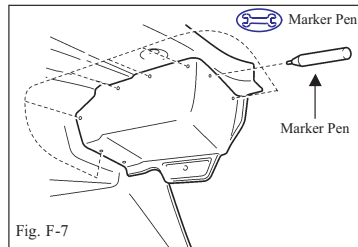
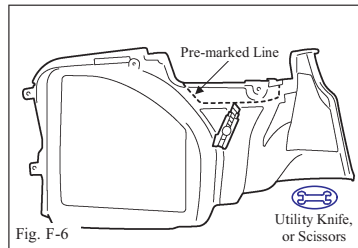
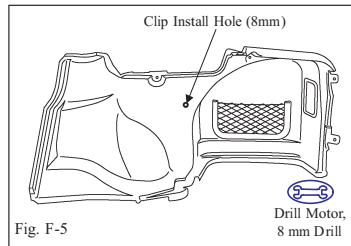
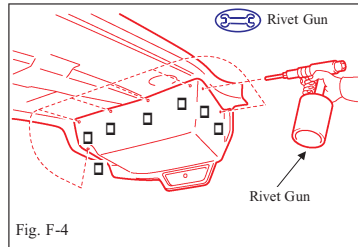
1. Cut the front luggage compartment trim cover and install the luggage compartment trim cover.
 - i. Temporarily install the luggage compartment trim cover onto the front luggage compartment trim cover. (Fig. F-1)
 - ii. Using marker pen make seven (7) reference marks for installing rivets. (Fig. F-1)
 - iii. Remove luggage compartment trim cover.
 - iv. Drill seven (7) 5 mm holes for the rivets. (Fig. F-2)
 - v. Remove a section of the trim cover with a utility knife or scissors along the pre-marked line as shown. (Fig. F-3)



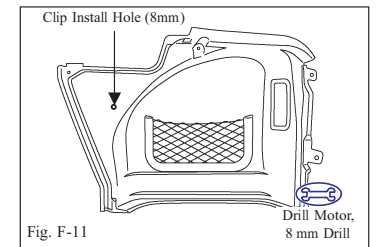
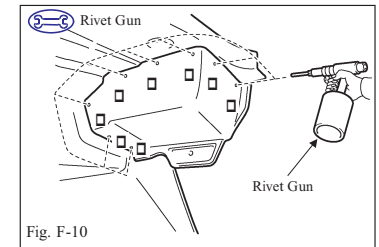
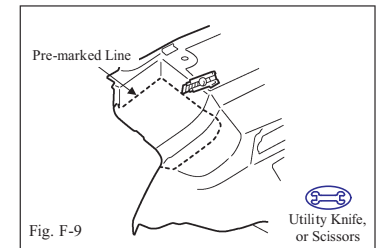
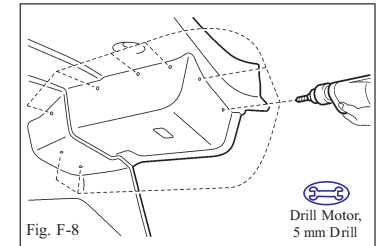
- 2. Install the luggage compartment trim cover to the front luggage compartment trim cover with seven (7) rivets. (Fig. F-4)
 - i. Install the rivets in the sequence shown in the illustration.
 - STOP** ii. If the sequence is not followed, the trim will be deformed.
- 3. Cut the luggage compartment trim side cover.
 - i. Using a drill of 8 mm, make a clip hole in the position (marked in Step A. 2.) shown in the (Fig. F-5).
 - +** ii. Remove a section of the trim cover with a utility knife or scissors along the pre-marked line as shown. (Fig. F-6)

FOR VEHICLES WITH REAR AIR CONDITIONER. (Steps F. 4. - F. 6.)

- 4. Cut the front luggage compartment trim cover and install the luggage compartment trim cover.
 - i. Temporarily install the luggage compartment trim cover onto the front luggage compartment trim cover. (Fig. F-7)
 - ii. Using marker pen make eight (8) reference marks for installing rivets. (Fig. F-7)
 - iii. Remove luggage compartment trim cover.



- iv. Drill eight (8) 5 mm holes for the rivets. (Fig. F-8)
- +** v. Remove a section of the trim cover with a utility knife or scissors along the pre-marked line as shown. (Fig. F-9)
- +** 5. Install the luggage compartment trim cover to the front luggage compartment trim cover with eight (8) rivets. (Fig. F-10)
 - i. Install the rivets in the sequence shown in the illustration.
 - STOP** ii. If the sequence is not followed, the trim will be deformed.
- 6. Cut the luggage compartment trim side cover.
 - i. Using a drill of 8 mm, make a clip hole in the position (marked in Step A. 2.) shown in the Fig. F-11.



- ii. Remove a section of the trim cover with a utility knife or scissors along the pre-marked line as shown. (Fig. F-12)

G. In Process Functional Test.

1. Temporarily reconnect battery negative cable.
2. Turn ignition key to ACC position.
3. Press the power button on the receiver/player head unit. Verify the backlighting illuminates.
4. Press and release the "SAT" button on the head unit.

- ➔ i. Verify that a satellite channel is received, or a "NO SIGNAL" message appears on the display.

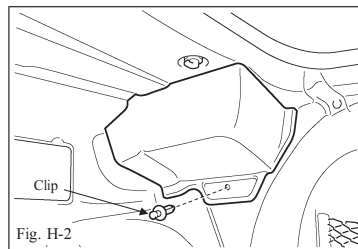
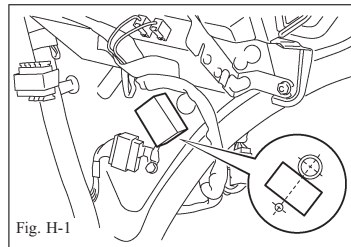
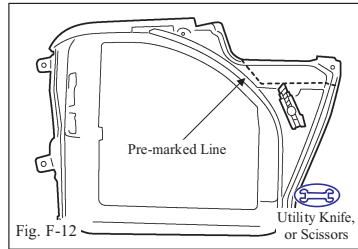
NOTE: If "ANTENNA" appears (flashing) on the display - then one or both of the antenna cables are disconnected from the satellite tuner.

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

- ➔ 5. Disconnect battery negative cable.

H. Vehicle Reassembly.

1. Install spacer on to vehicle side. (Fig. H-1)
 - i. Remove adhesive backing tape from spacer.
2. Reinstall trim pieces in luggage compartment.
 - i. Reinstall the luggage compartment trim side cover, front luggage compartment trim, luggage compartment light, wire harness cover, rear floor finish plate, both deck trim side boards and floor mat.
 - ii. Reinstall the clip into the luggage compartment trim cover. (Fig. H-2).



- (1) Visually check the position of the hole.
If the hole is not positioned properly, adjust the position of the side trim to install the clip.

- iii. Reinstall left combination light service cover.

3. Replace the floor mat, deck trim side boards on both sides and rear floor finish plate.

- i. Replace the five clips and the rear floor finish plate. (Fig. H-3)
- ii. Replace two (2) luggage hold belt strikers and the two (2) bolts. (Fig. H-3)

- ⚠ (1) Tighten the bolt to 5.0 N-m (44 lbf-in)

- iii. Replace the two clips and deck trim side boards on both sides. (Fig. H-3)

I. Complete the Installation.

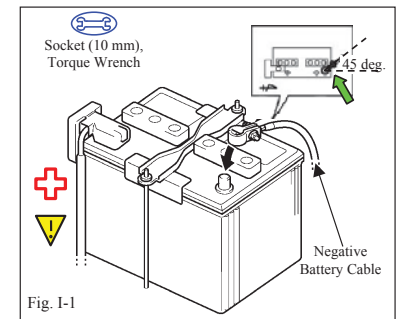
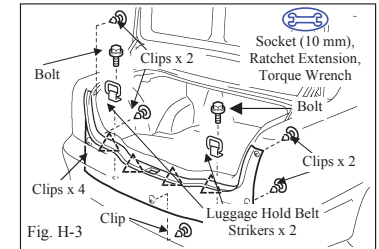
1. Reconnect the vehicle's negative battery cable. (Fig. I-1)

- ➔ i. Position the negative terminal to the battery (~45 deg.) as shown.

- ⚠ ii. Tighten the nut to 4.1 N-m (36 lbf-in).
- ⊕ iii. Do not touch the positive terminal with any tool when replacing the cable.

2. Clean up and remove any trash.

- ⚠ 3. Place the owner "xM Satellite Radio" brochure and the "Owners Manual" in the glove box.





Section III - Functional Verifications

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

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

Vehicle Function Checks

- Trunk Lid Light.
- Luggage Compartment Light.

Proper operation of trunk lid light.

Proper operation of the luggage compartment light.