



## GENUINE PARTS

### SATELLITE RADIO INSTALLATION INSTRUCTIONS

#### 1. DESCRIPTION: SATELLITE RADIO SYSTEM

<b>2. PART NUMBERS:</b>	<b>XM tuner kit</b>	<b>999U9-NV003</b>
	<b>Sirius tuner kit</b>	<b>999U9-NV004</b>
	<b>XM antenna kit</b>	<b>999U9-VQ006</b>
	<b>Sirius antenna kit</b>	<b>999U9-VQ007</b>
	<b>Antenna feeder cover</b>	<b>999U9-ZQ000</b>
	<b>N-BUS extender harness</b>	<b>999U9-EP000</b>

#### 3. MODEL APPLICATION: 350Z 2-Door Coupe (2004~)

#### 4. TUNER KIT CONTENTS:

No.	Part	Qty	Part view
1	Tuner	1	
2	Black Tape	2	
3	Velcro Tape (hook)	2	
4	Velcro Tape (loop)	2	
5	Spacer	1	
6	Bracket	2	
7	M4 Screw	4	
8	5mm Tapping Screw	4	
9	Ground Cable	1	
10	6mm Tapping Screw	1	
11	Sponge Tape	14	
12	Edge Protector	1	
13	Clear Tape	4	
14	Corrugated Tube	1	
15	Cable Tie	4	
16	Butyl Gum	2	
17	Cable Clamp	4	

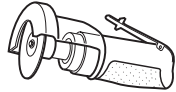
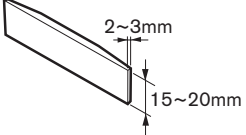

- This can be a difficult and time consuming installation that may require the skill of the master technician who is familiar with electronics installation. Contact your regional DTS for additional information on installation support.
- Tuner unit, antenna, and antenna splitter must be same brand, XM or SIRIUS
- This is a universal installation kit so all parts may not be used.
- Re-installation of satellite radio antenna to be performed by an authorized dealer only.
- In the event the satellite radio antenna or antenna splitter needs to be re-installed, do not use the original mounting tape. Order the low profile antenna adhesive tape kit:

**999U9-VQ010**

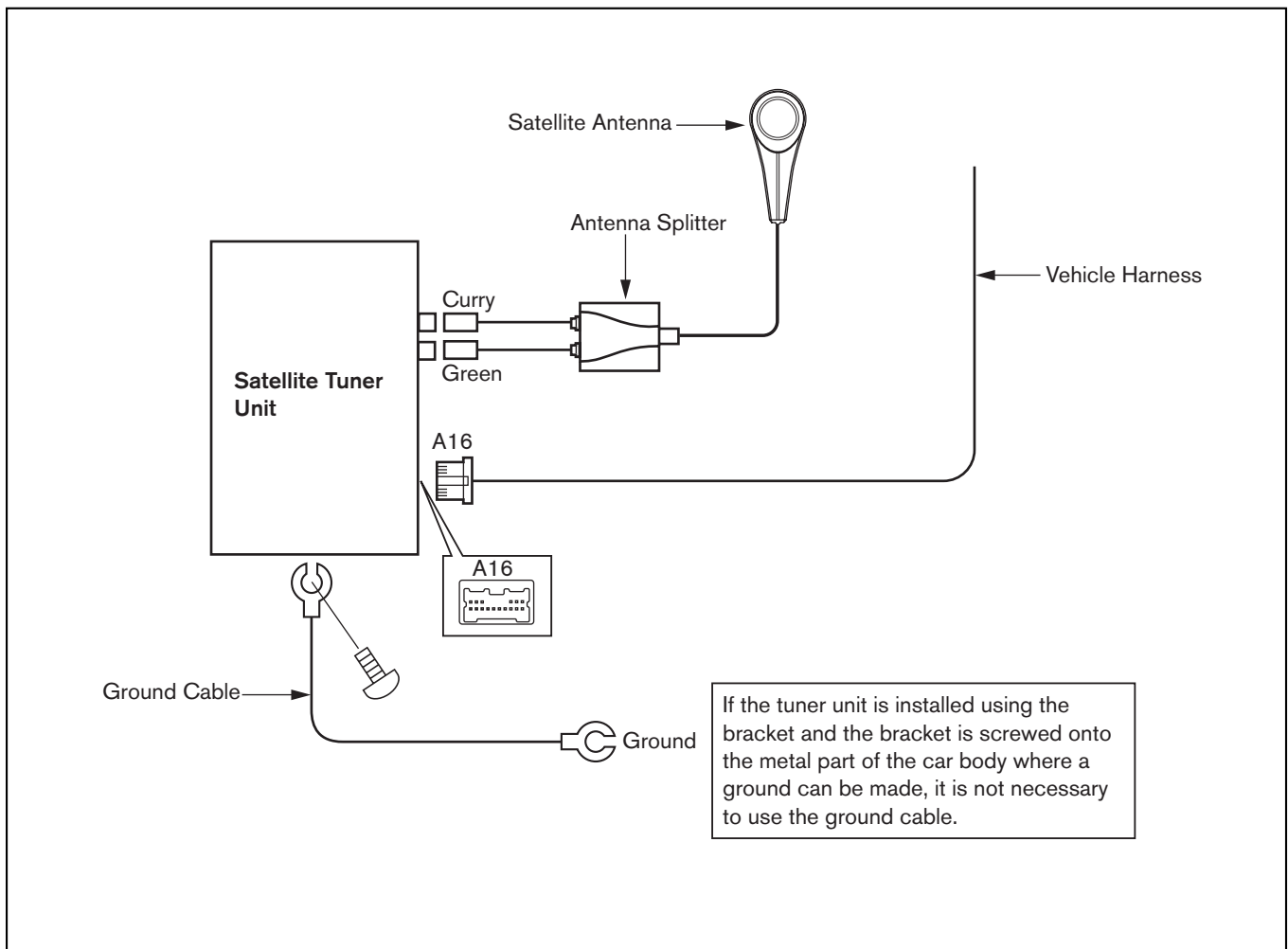
- In the event the satellite radio antenna needs to be replaced, order the appropriate Satellite Antenna Kit.

<b>XM LPA 11' service kit</b>	<b>999U9-VQ012</b>
<b>SIRIUS LPA 11' service kit</b>	<b>999U9-VQ013</b>
<b>XM splitter</b>	<b>999U9-VQ004</b>
<b>SIRIUS splitter</b>	<b>999U9-VQ005</b>

5. TOOL & MATERIAL REQUIRED:

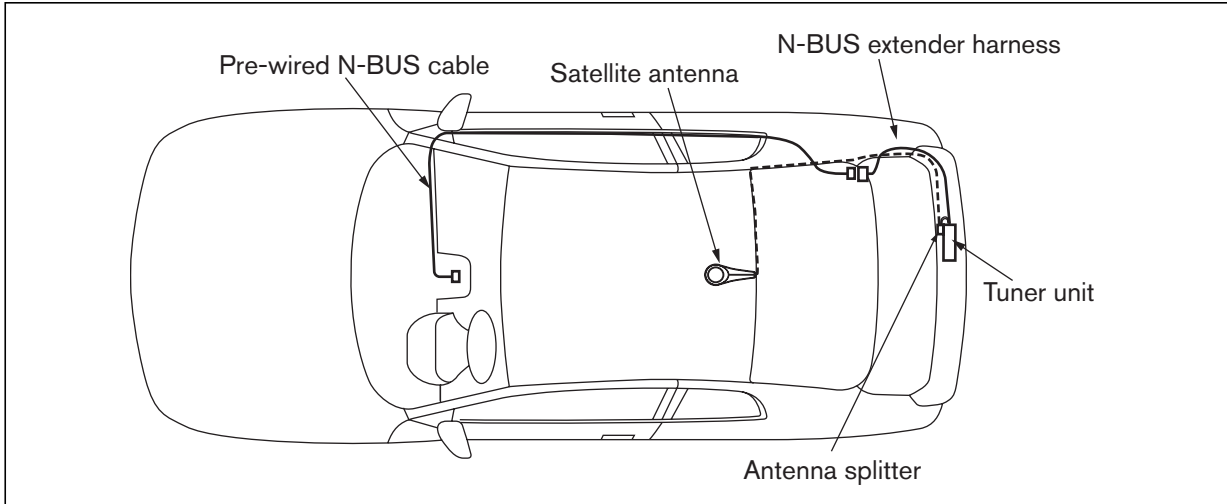
<ol style="list-style-type: none"> <li>1. Phillips screw driver</li> <li>2. Clip remover</li> <li>3. Electrical tape</li> <li>4. Tape measure</li> <li>5. Masking tape</li> <li>6. Bitumen wax (999MP-9G001P) or equivalent</li> </ol>	<ol style="list-style-type: none"> <li>7. 50/50-alcohol/water solution</li> <li>8. 10mm socket</li> <li>9. 1/4" drive ratchet</li> <li>10. Die grinder with cutoff wheel (wheel no larger than 3" diameter)</li> </ol> 	<ol style="list-style-type: none"> <li>11. PGF stick for antenna cable routing</li> </ol>  <ol style="list-style-type: none"> <li>12. Plastic pry bar (J-46534 or equivalent)</li> </ol> 
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6. STANDARD CONNECTION METHOD



## 7. INSTALLATION OUTLINE

350Z Coupe



## 8. VEHICLE PREPARATION

(1) Record the customer radio preset.

	1	2	3	4	5	6	7
AM							
AM2							
FM1							
FM2							
FM3							
ESN number located on tuner box							

- (2) Apply parking brake.
- (3) Make sure that the shift lever is engaged in the "P" position.
- (4) Open the trunk lid.
- (5) Open the windows completely.
- (6) Disconnect the battery negative terminal to prevent short circuits during installation.

### CAUTION

Before disconnecting the battery negative terminal, lower the windows completely.

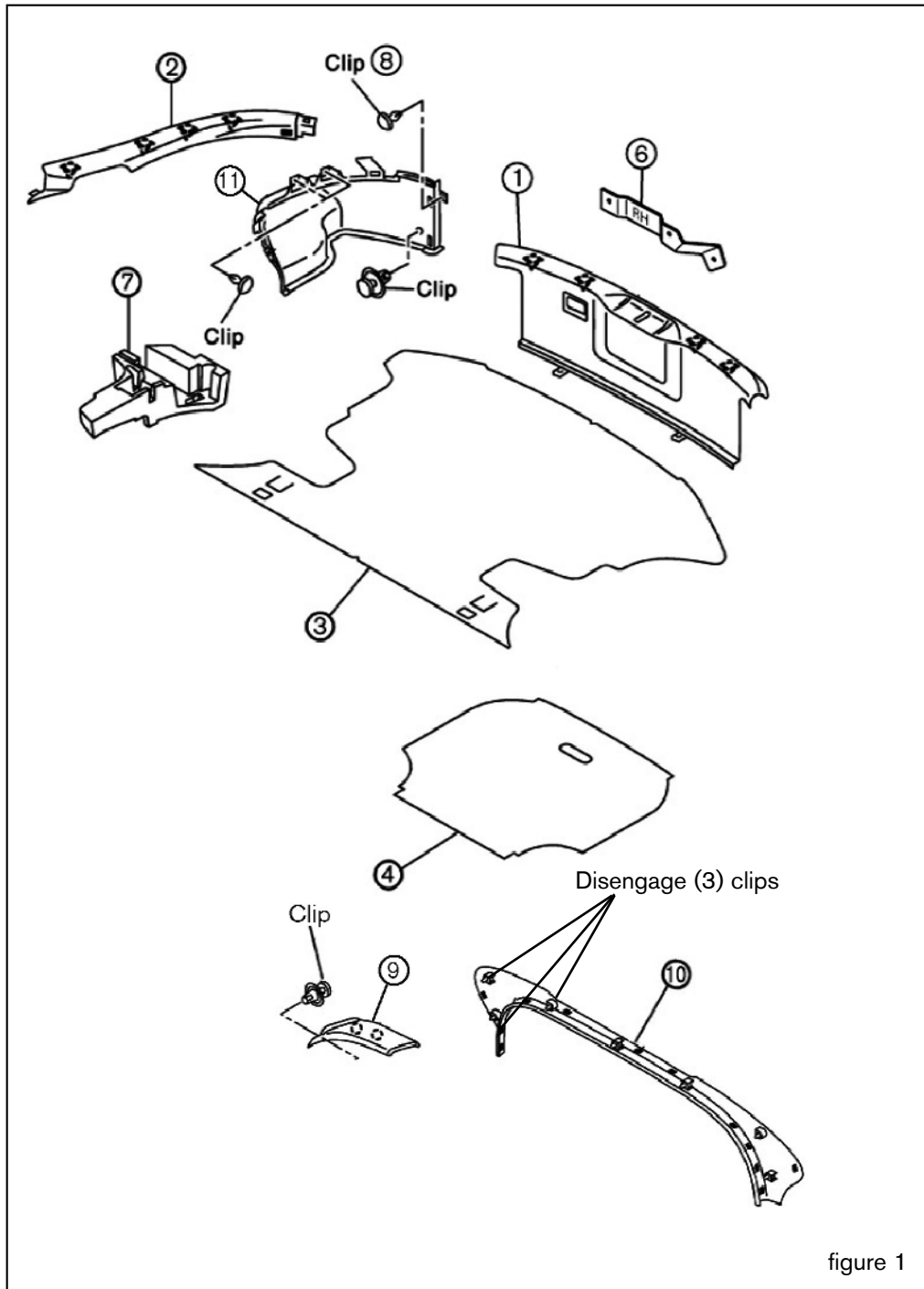
### CAUTION

Do not damage vehicle or parts. Refer to Service Manual for proper removal and reinstallation.

(7) Remove the following trunk interior trim parts as shown in figure 1.

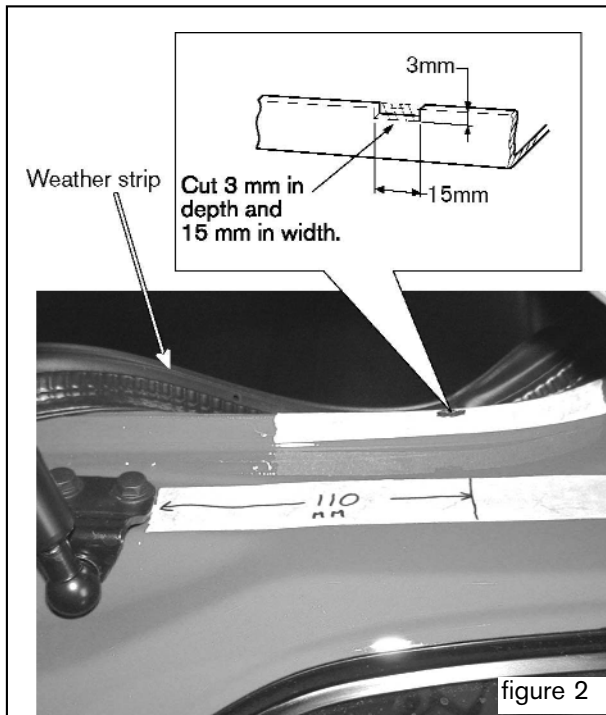
1. Luggage finisher lower (center)
2. Luggage side finisher upper (RH)
3. Luggage floor carpet
4. Spare tire cover
5. Spare tire (not shown in figure 1)
6. RH trunk bracket

7. Tool box
8. Clips
9. Strut cover upper (RH)
10. Disengage 3 clips on (RH) side of strut cover rear. (Not necessary to remove completely)
11. Luggage side finisher (RH)



## 9. Antenna Installation

### 9-1. Notch cutting



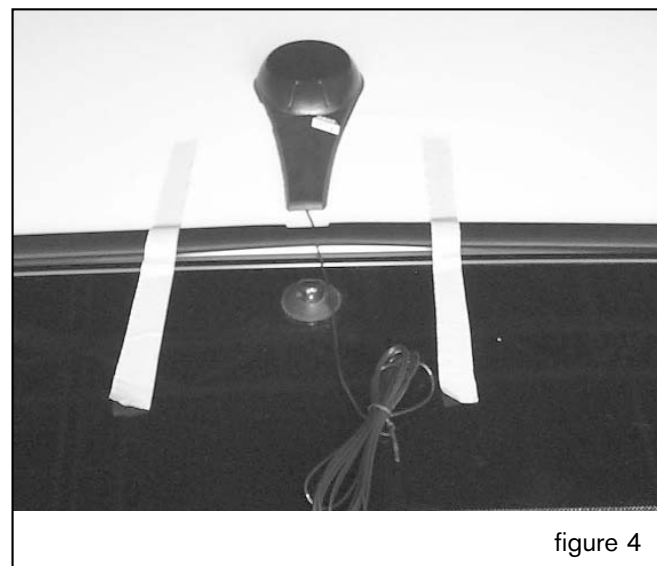
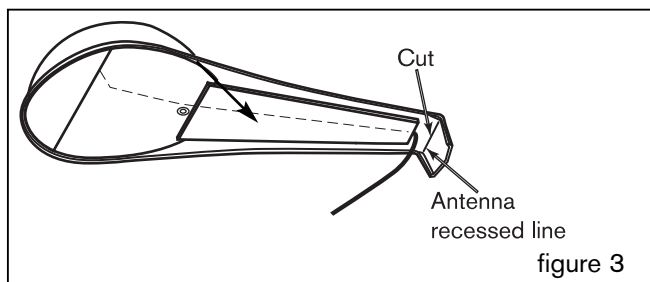
1. Remove the weather strip at the top right of trunk.
2. Place a strip of masking tape starting from the (RH) hatch hydraulic strut mount to the back door of the vehicle make sure that is straight as possible. And place a 100mm strip of masking tape along the gutter lip as shown in figure 2.
3. Measure 110mm beginning from the (RH) hatch hydraulic strut mount. Place a mark on the masking tape. This measurement will be used as a reference to mark the right point of the notch on the masking tape along the gutter lip. figure 2
4. The notch will measure 15mm wide to the left of the reference mark by 3mm deep. figure 2

#### **⚠ CAUTION**

- Do not damage vehicle parts during notch cutting procedure.
- Protect window and trim with fender cover or similar.

5. Cut a notch on the gutter lip with a die grinder.
6. Remove burrs or sharp edges from the notch.
7. Apply rust-proof to cut surface.

### 9-2. Feeder cover installation



1. Clean roof area with 50/50 alcohol water solution.

#### **⚠ CAUTION**

Do not touch or contaminate the cleaned roof or the adhesive tape on the antenna to prevent the adhesion strength from being reduced.

2. Cut the tail flap portion off along the antenna recessed line at the 90 degree bend. figure 3

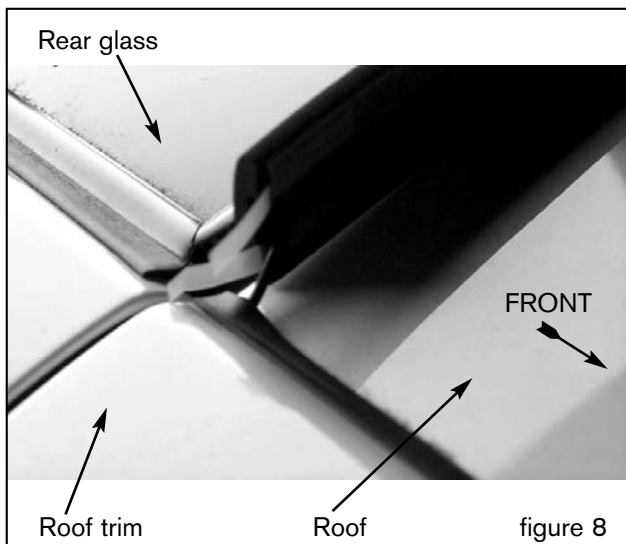
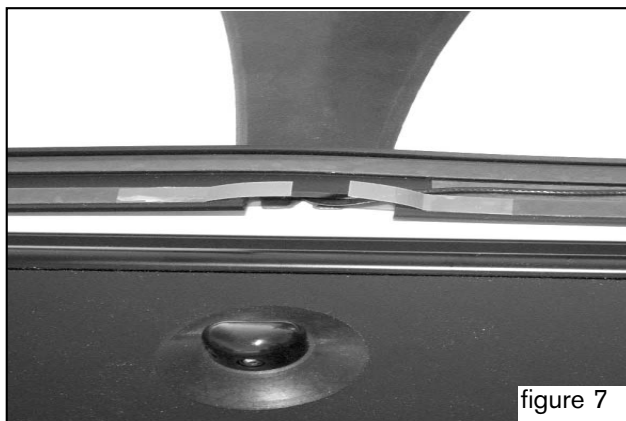
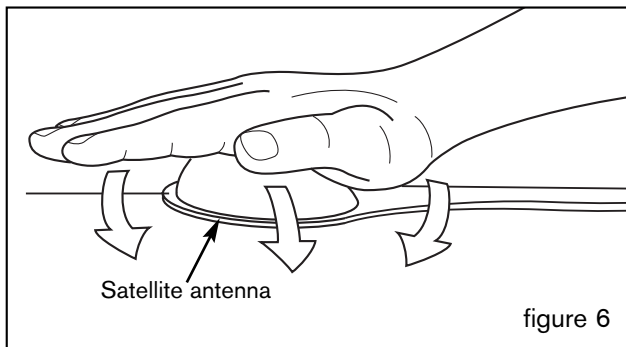
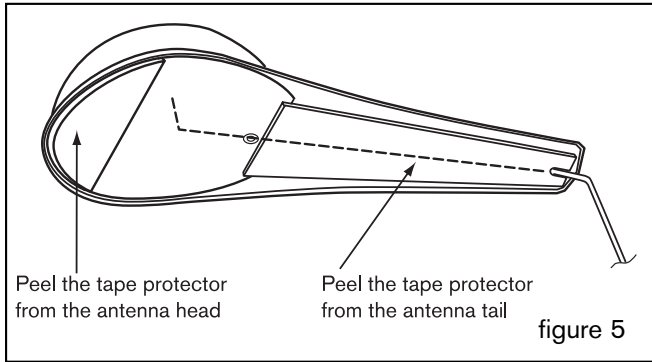
#### **⚠ CAUTION**

Do not damage antenna cable.

3. Place antenna 2" from edge. figure 4.
4. Lay feeder cover on roof in final installed position. Make sure feeder cover is over antenna cable. figure 4
5. Center feeder cover on vehicle roof. Make sure the lip edge is flushed with the roof sheetmetal in the channel.
6. Use two 6" strips of masking tapes and place 3" away from both sides of the notch. figure 4
7. Position antenna on the roof with the tail flush to the notch on feeder cover.
8. Check visually and make sure that the antenna is centered and straight.
9. Hold down antenna tail to prevent movement.

#### **⚠ CAUTION**

Do not stretch the tail when installing the tail.



10. Raise antenna head and peel off the tape protector. figure 5

**⚠ CAUTION**

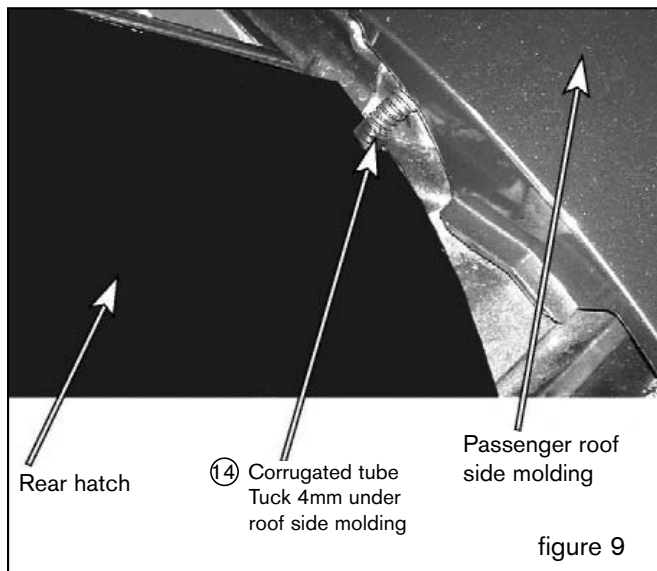
In case of ambient temperature below 20°C (70°F), it is required to warm the tape and mounting surface with a heater to minimum of 20°C (70°F).

11. Properly place the antenna and then apply a 20 lbs. of downward force for 20 seconds while rocking hand back and forth across the top of the antenna to assure proper adhesion. figure 6

**⚠ CAUTION**

During antenna mounting process, make sure rubber dust seal "flares" outward while downward force is applied.

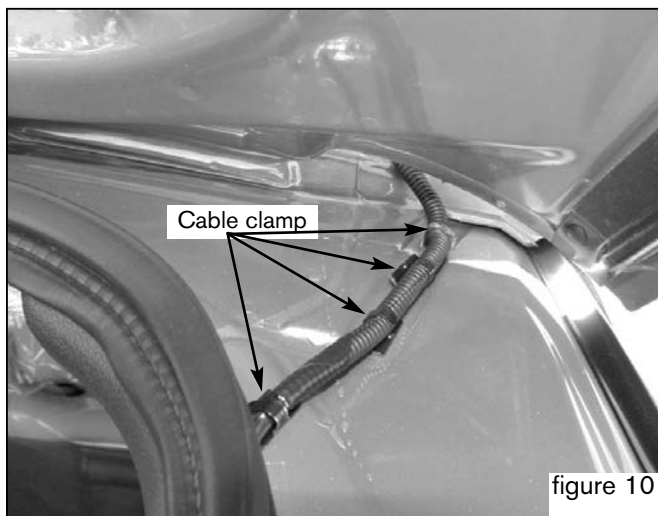
12. Remove two strips of tape and feeder cover.
13. Remove tape protector from antenna tail. With hand pressure, apply downward force to full length of the tail to assure proper adhesion. figure 5
14. Loosely, fit the cover over the installed antenna over the antenna tail. Make sure feeder cover orientation is the same as shown in figure 4
15. Peel back the center tape 3"-4" from the notch area.
16. Hold feeder cover vertically, when installing the antenna cable to avoid slack. Attach 2-3" of antenna feeder. figure 7
17. Confirm that feeder cover can be installed by placing it on vehicle.
18. Peel off the rest of the center tape liner and install the antenna feeder in the center channel.
19. Route the feeder under the right roof trim. figure 8
20. Peel off 3-4" of both outer double sided tapes at the center near the notch and ends. Make sure that both liners point outward and do not interfere with the rest of the feeder installation.
21. Install the feeder cover with the lip firmly against the roof edge. Make sure that the ends of the feeder cover butt up against rubber of roof trim.
22. Pull off the outer tape liner from the lip side and apply downward pressure from notch towards one end. Then, apply downward pressure from notch towards opposite end.
23. Pull off remaining tape liners and firmly apply pressure from the ends toward the center.



24. Before installing, cut the (14) corrugated tube to 198mm.
25. Attach the (14) corrugated tube to the antenna cable and tuck 4mm (5/32") under the roof side molding refer to figure 9.
26. Route the (14) corrugated tube and antenna cable to the notch.
27. Starting 25mm (1") from the top of the corrugated tube where the antenna cable come out from the roof side molding, attach (4) (17) cable clamps equally spaced along a flat smooth surface that travels into the notch area. (Alternate tab direction) refer to figure 10.

**CAUTION**

- Keep cable clamps as far away from the gutter lip as possible in order to avoid interference with weather strip.
- Make sure to apply cable clamps to smooth flat surface.
- Do not attach cable clamps on sealer or spot welds.



28. Secure the tubing by inserting the tubing into the (17) cable clamps and bending the tabs down.

Top right section of trunk

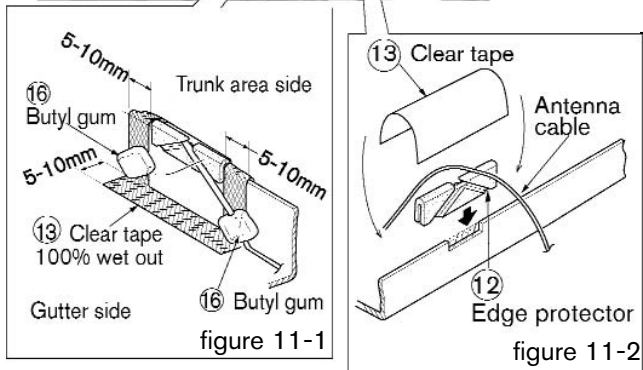
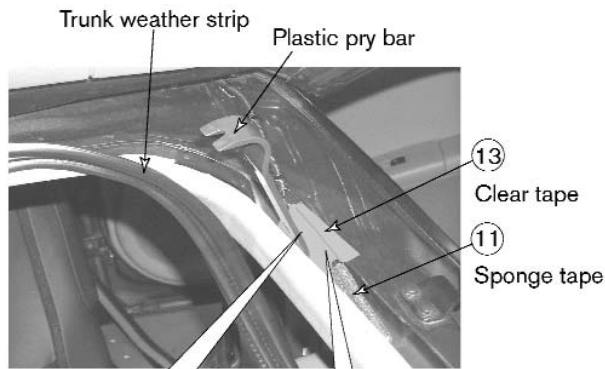


figure 11

**NOTE**

The following steps 29 to 36 are critical to water leak, therefore must be followed strictly.

29. Attach the 12 edge protector over the notch.
30. Use alcohol wipe included in the kit to clean surrounding area before application of clear tape.
31. Route the antenna cable over the 12 edge protector.

**CAUTION**

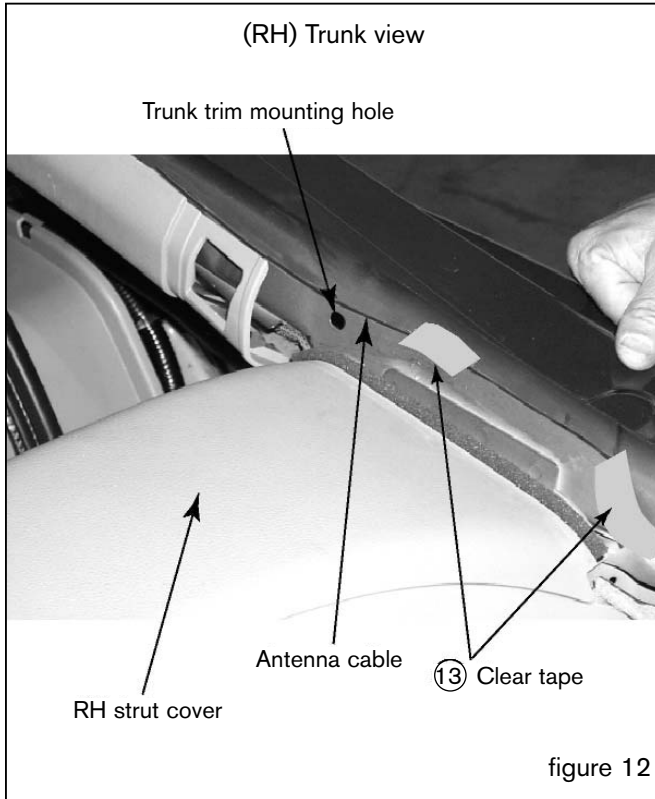
Make sure the antenna cable is seated in the channel of the edge protector.

32. Position the clear tape above the notch without peeling off the liner to estimate the correct position for the small amount of 16 butyl gum.
33. Before applying the 13 clear tape, apply a small amount of 16 butyl gum to the bottom side of antenna cable to hold antenna cable at the radius corner where antenna cable will enter 13 clear tape.
34. Do not peel off the entire clear tape protector. Pull the clear tape protector back 10 mm (3/8"). Then apply 10mm clear tape to the horizontal flat surface of the gutter. Then slowly massage the clear tape with a PGF stick till you have reached the corners. Make sure that the 13 clear tape does not wrinkle. Apply the same technique to the vertical surface. Then fold the tape over and apply the technique once more. This should leave a smooth surface on all three sides. figure 11-1 & figure 11-2
35. Wedge the straight part of the plastic pry bar between the plastic trim and metal lip. Gently push pry bar away from you to provide room to smooth out the back surface of the clear tape. figure 11

**CAUTION**

- In order to stop water from entering the trunk through the 13 clear tape, the clear tape must have complete (100%) wet out 5 - 10mm (1/4" - 3/8") on all three sides of peripheral boundary and no wrinkle. (figure 11-1)
- Ensure antenna cable is entering the clear tape at the radius corner.





36. Apply 16 butyl gum at both ends of the clear tape. The butyl gum should fit into both corners to cover the antenna cable and the opposite end of the clear tape. figure 11-1

**CAUTION**

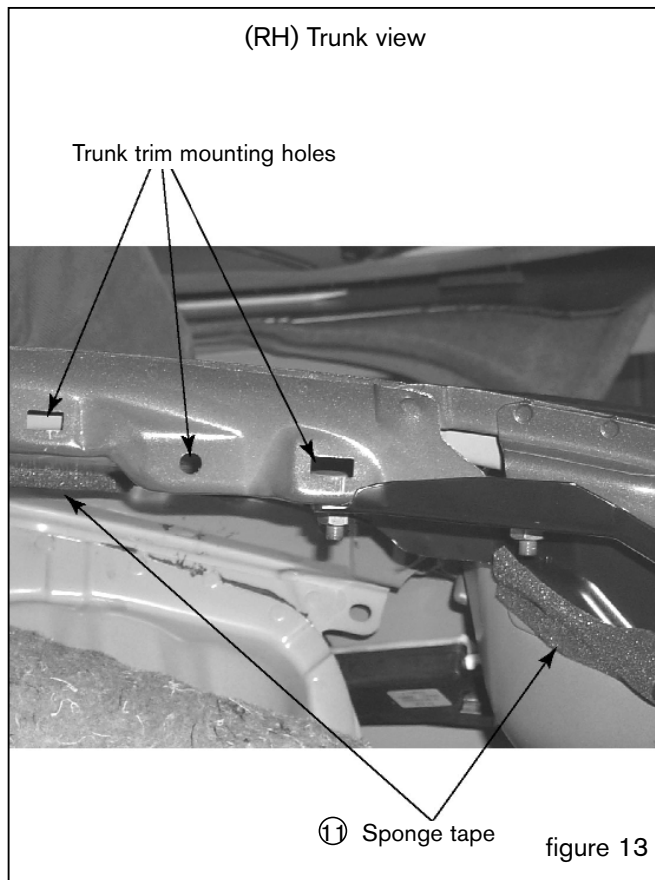
Butyl gum must be placed across cable for good water seal.

37. Route the antenna cable along the existing channel that runs above the panel clip holes. figure 12

**CAUTION**

Do not cover trim mounting holes with antenna cable or clear tape.

- 38. Secure antenna cable into existing channel with 2 pieces of 13 clear tape shown in figure 12.
- 39. Route the antenna cable under the (RH) rear quarter panel over hang. Secure antenna cable with 11 sponge tape in two places refer to figure 13.
- 40. Route antenna cable and secure the cable to the black bracket above the (RH) rear tail light assembly with sponge tape. figure 13



## 10. TUNER INSTALLATION

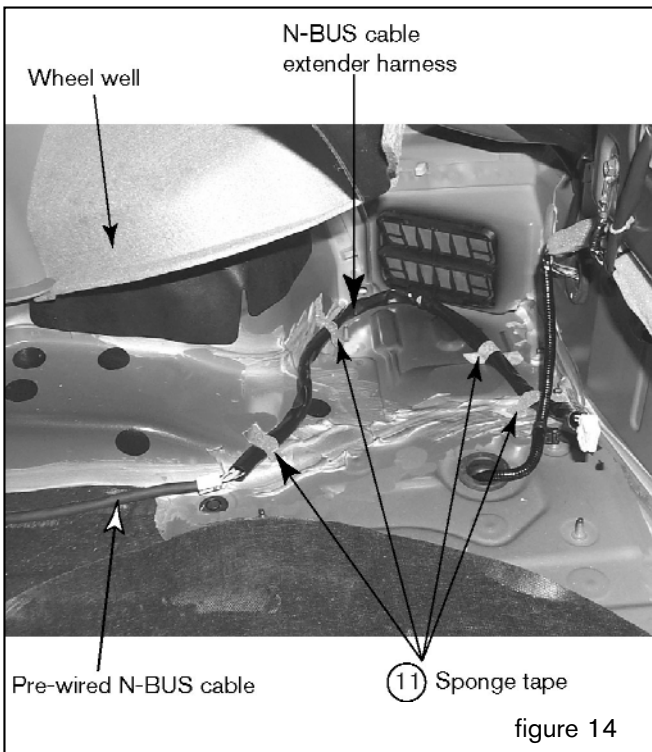


figure 14

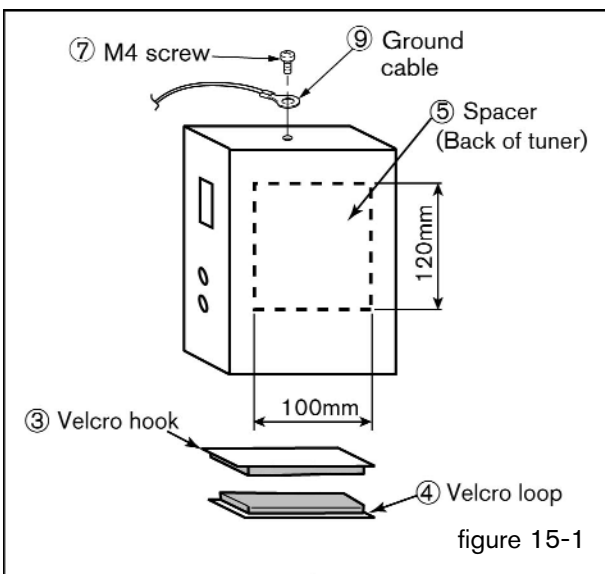


figure 15-1

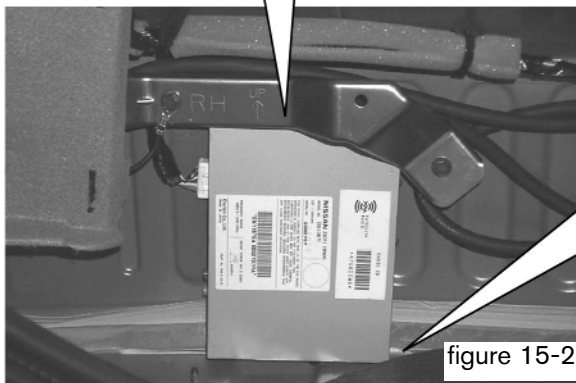


figure 15-2

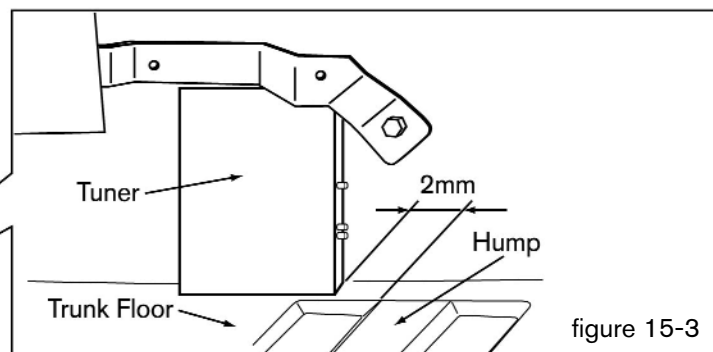


figure 15-3

1. Remove the factory tape to release N-BUS cable.

**⚠ CAUTION**

In case of ambient temperature below 20°C (70°F), it is required to warm the tape and mounting surface with a heater to minimum of 20°C (70°F).

2. Plug the N-BUS cable extender harness plug into the vehicle N-BUS cable. figure 14
3. Route the N-BUS cable extender harness around the wheel well away from exposed bolts and secure with sponge tape as shown in figure 14.
4. Clean the back of the (1) tuner and the rear trunk panel with 50/50 alcohol/water solution where the tuner is to be attached.
5. Cut one (1) (5) spacer 100mmx120mm (4" x 4.8")

**⚠ CAUTION**

Make sure to clean the tuner with 50/50 alcohol/water solution before attaching spacer and Velcro.

6. Attach the (5) spacer to the top part of the tuner. figure 15-1
7. Also attach the (3) Velcro hook and (4) loop together then peel tape protector on Velcro side. Attach the Velcro strip to the bottom of the tuner as shown in figure 15-1.
8. Place the tuner between both bolts that secure the (RH) trunk bracket. Peel tape protector on Velcro loop side. Attach Velcro strip to the bottom panel of the trunk shown in figure 15-2.
9. While reinstalling (RH) trunk bracket use the right bolt to secure the ground connection for the satellite tuner unit. figure 16
10. Apply firm pressure to the satellite tuner.
11. Ensure tuner is mounted 2mm towards RHS from floor hump to prevent vibration noise. figure 15-3

## 10-1. Tuner wiring

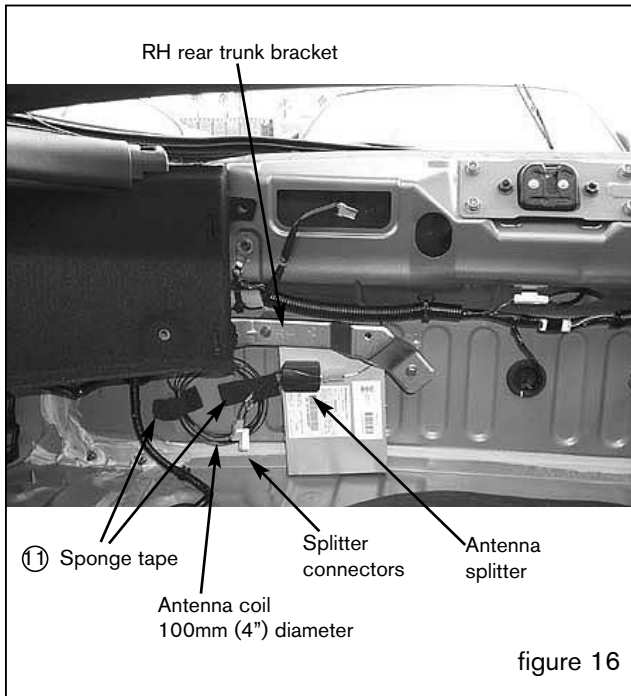


figure 16

1. Insert antenna splitter cable connectors into corresponding tuner terminals.
2. Clean top of tuner with 50/50 alcohol/water solution.
3. Peel off tape protector from the splitter. Place the splitter on the top of the tuner. Secure the antenna splitter to the tuner by applying downward force with hand pressure. figure 16.
4. Route the antenna cable to the splitter location. Secure with sponge tape (1) as shown. figure 15
5. Leaving enough length for the splitter connection, neatly coil excess antenna cable to create a loop 100mm (4") in diameter.

**⚠ CAUTION**

- Do not kink antenna cable.
- Do not change diameter of the antenna loop.

6. Connect the antenna cable connector to the antenna splitter.
7. Attach the antenna cable loop to the back of the trunk panel with sponge tape at two locations. figure 16
8. Connect the N-BUS cable connector to the corresponding tuner terminal.

## 11. OPERATION CHECK

- (1) Connect the battery negative terminal.
- (2) Turn vehicle ignition switch to the "ACC" position.
- (3) Turn radio on then select satellite radio mode. Acquiring (Sirius) or loading (XM) will display for a while. If not, move vehicle to outside and try again.
- (4) Tune to preview channel ( XM: channel "1" / SIRIUS: channel "184" ) to make sure receiving preview channel correctly.
- (5) Confirm proper audio operation. ( AM / FM / TAPE / CD )

## 12. REINSTALLATION OF REMOVED PARTS

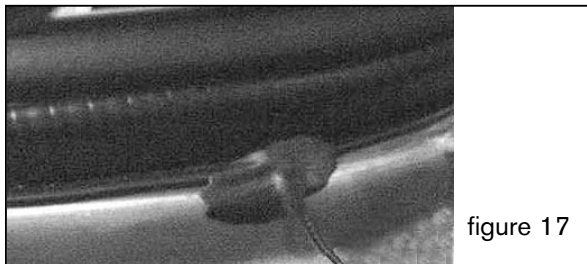


figure 17

- (1) Reinstall all removed vehicle parts referring to the service manual for the vehicle.
- (2) After reinstalling the weather stripping spread butyl gum over the antenna and weather stripping to close any gaps and improve the seal. figure 17
- (3) Be sure to engage all clips on parcel trunk finisher.
- (4) Clean vehicle interior.

## 13. FINAL INSPECTION

- (1) Inspect vehicle interior and exterior for damage.
- (2) Confirm proper operation of vehicle systems.
- (3) Reset radio presets to the recorded settings.