



GENUINE PARTS

SATELLITE RADIO INSTALLATION INSTRUCTIONS

1. DESCRIPTION: SATELLITE RADIO SYSTEM

2. PART NUMBERS:	XM tuner kit	999U9-NV003
	SIRIUS tuner kit	999U9-NV004
	XM antenna kit	999U9-VQ006
	SIRIUS antenna kit	999U9-VQ007

3. MODEL APPLICATION: Maxima (2004~ last 6 digits of VIN is 835089 or later)

4. TUNER KIT CONTENTS:

No.	Parts	Qty	Parts View
1	Tuner	1	
2	Black Tape	2	
3	Velcro Tape (hook)	2	
4	Velcro Tape (loop)	2	
5	Double-Stick Foam Pad	1	
6	L Bracket	2	
7	M4 Machine 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	

CAUTION

- 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 tape remount kit:

999U9-VQ010

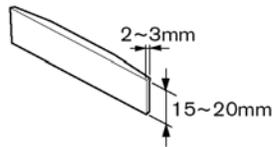
- In the event the satellite radio antenna needs to be replaced, order the appropriate Satellite Antenna Kit.

XM antenna	999U9-VQ012
SIRIUS antenna	999U9-VQ013
XM splitter	999U9-VQ004
SIRIUS splitter	999U9-VQ005

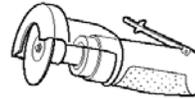
5. TOOL & MATERIAL REQUIRED:

- 1. Phillips screwdriver
- 2. Tape measure
- 3. Clip remover
- 4. Soapy water
- 5. Flat file
- 6. 50/50-alcohol/water solution
- 7. Electrical tape
- 8. Adhesive tape
- 9. Masking tape
- 10. Drill with 4mm (5/32") bit equipped with 1cm (1/2") stop
- 11. Rustproof compound (Bitumen Wax, 999MP-9G001P or equivalent)

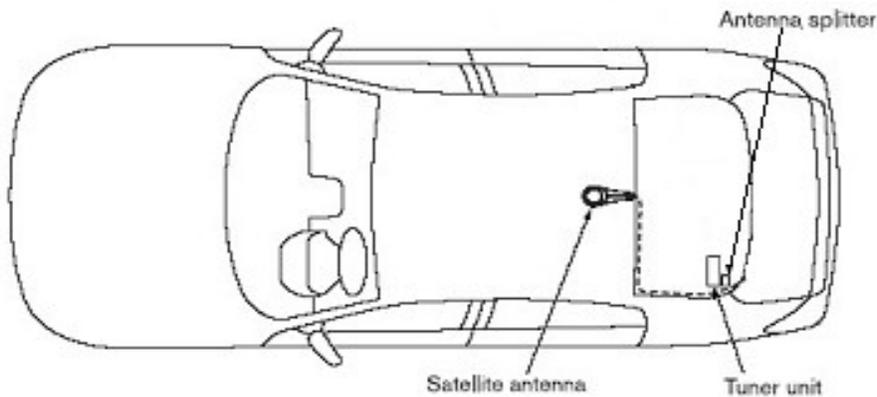
- PGFstick for antenna cable routing



- Die grinder with cutoff wheel (wheel no larger than 3" diameter)



6. INSTALLATION OUTLINE:

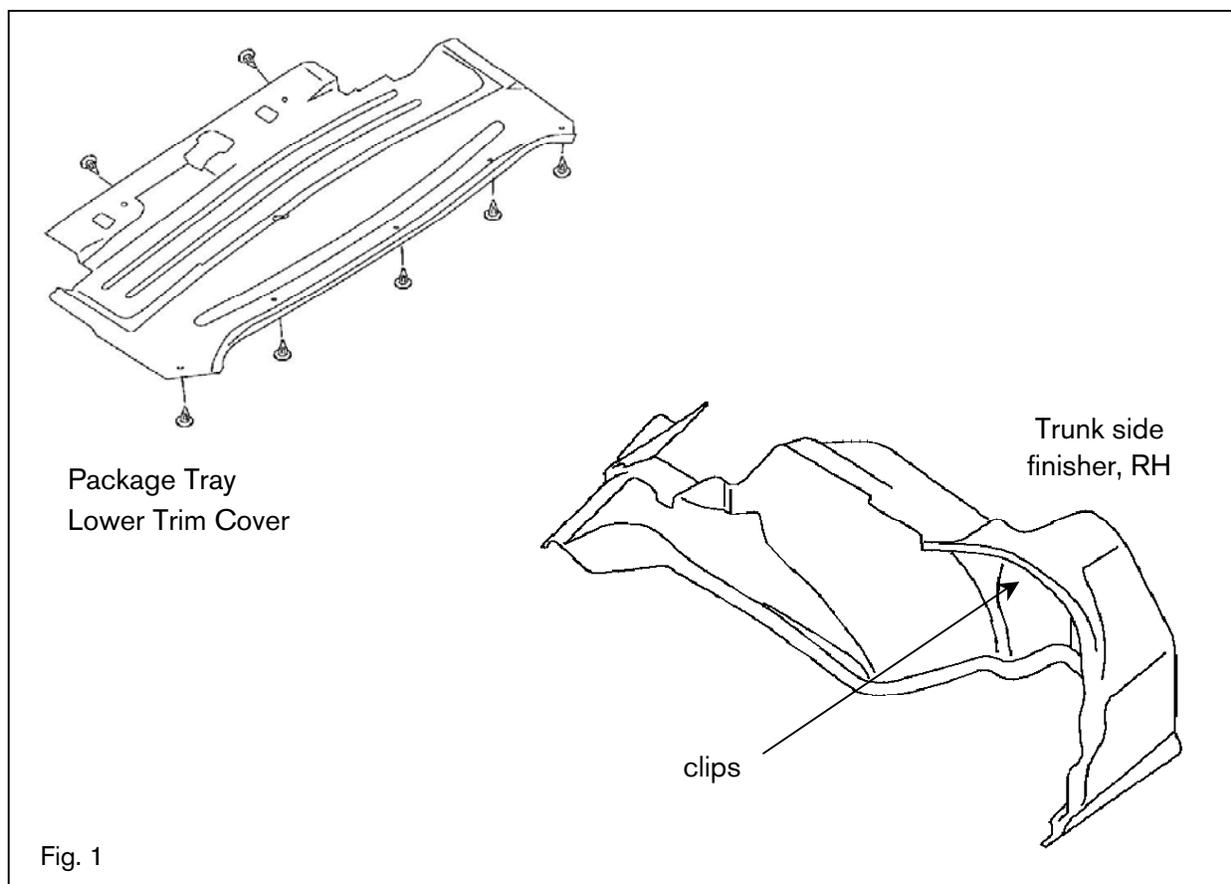


7. VEHICLE PREPARATION:

- (1) Using a PGF stick, confirm that there is not an excessive amount of sealant under rear window molding at the area where the antenna cables will be installed. **DO NOT** proceed to install radio if an excessive amount of sealant exists.
- (2) Apply parking brake.
- (3) Record the customer radio presets.

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

- (4) Make sure that the shift lever is engaged in the "P" position.
- (5) Open the trunk lid.
- (6) Turn the ignition switch OFF
- (7) Open engine hood.
- (8) Disconnect the battery negative terminal to prevent short circuits during installation.
- (9) Remove the following interior parts as shown in Fig. 1 (Refer to vehicle service manual)
 - Trunk panel, RH
 - Package tray lower trim cover

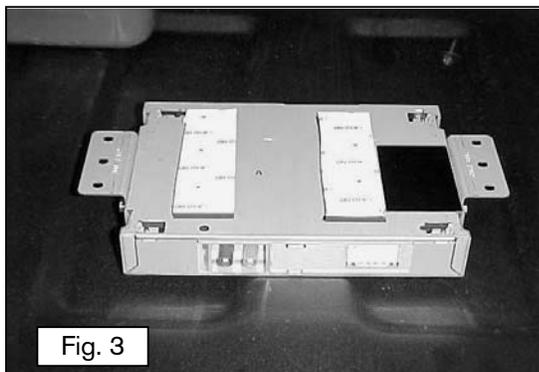


8. TUNER INSTALLATION:

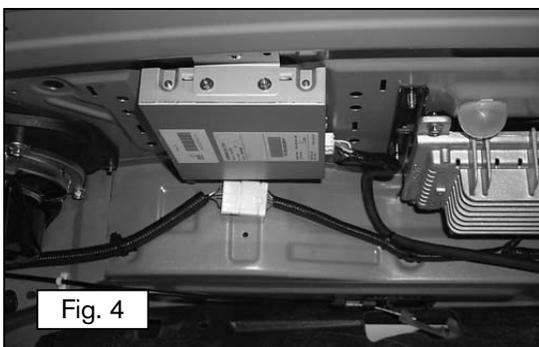
MAXIMA



- (1) Attach two (2) L brackets to tuner with four (4) M4 screws. Fig. 2
- (2) Cut two (2) 100mm by 30mm spacers from the double stick spacer (item # 5 in kit contents).

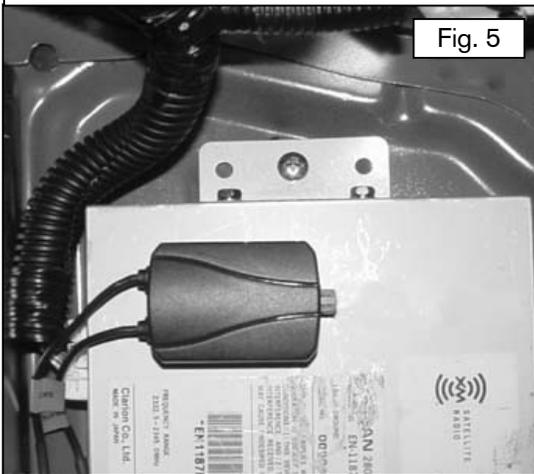


- (3) Clean the back surface of the tuner with 50/50 alcohol/water solution. Attach the two (2) 100mm by 30mm strips of double stick foam pad to bottom of tuner as shown. Fig. 3



- (4) Remove protective backing from foam pads and attach tuner to underside of package tray as shown. Fig. 4
- (5) Use 4mm (5/32") drill bit to drill holes through center hole on L brackets, and secure tuner to package tray with two (2) 5mm tapping screws.

Front of Vehicle



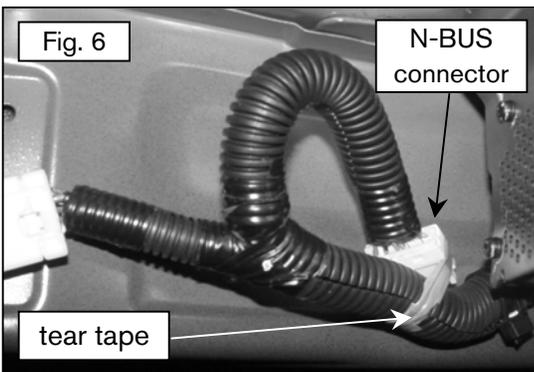
(6) Insert antenna splitter cable connectors into corresponding tuner terminals.

(7) Clean the tuner with 50/50 alcohol/water solution where the splitter is to be attached.

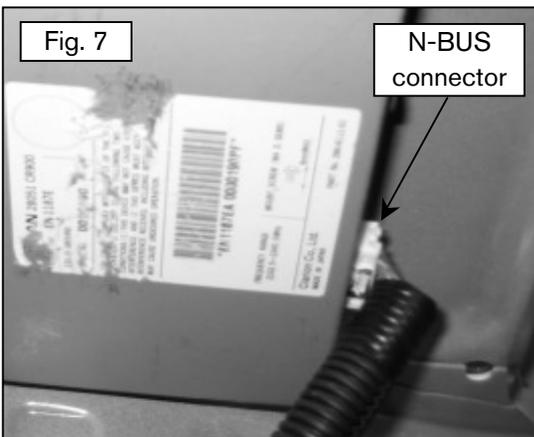
NOTE

Ensure that the tuner surface is thoroughly cleaned before proceeding.

(8) Peel off the tape protector from the splitter. Place the splitter on tuner and secure in position by applying force with hand pressure. Fig. 5.

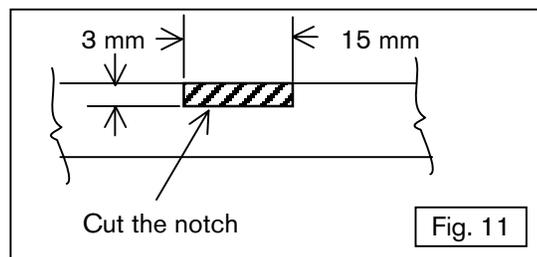
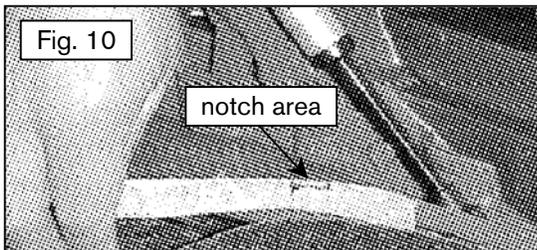
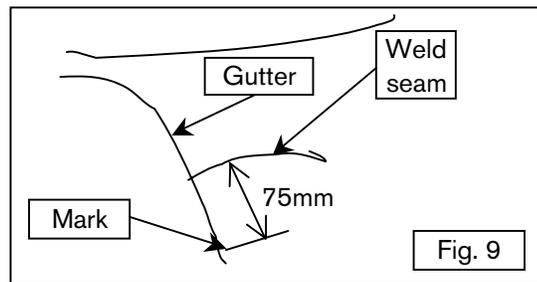
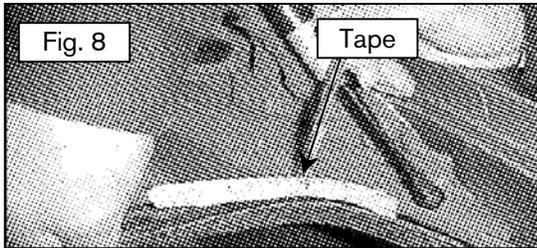


(9) Remove the tear tape to release the prewired N-BUS cable. Fig. 6



(10) Connect N-Bus cable connector to the corresponding tuner terminal. Fig. 7

9. NOTCH CUTTING:



- (1) Remove weather-strip from right side of trunk opening.
- (2) Apply 150mm (6") of masking tape to the vertical edge of the gutter as illustrated in Fig. 8
- (3) Measure 75mm (3") from weld seam at top right of gutter to the rear right of vehicle and mark position on masking tape with pen. Fig. 9 & 10
- (4) Measure 15mm (5/8") from pen mark to rear of vehicle and mark position on masking tape with pen. Fig. 11
- (5) Measure 3mm (1/8") down from top edge of gutter lip and make a horizontal line connecting the two (2) pen marks. This figure illustrates the area of material that will be removed using the die grinder. Fig. 11

⚠ WARNING

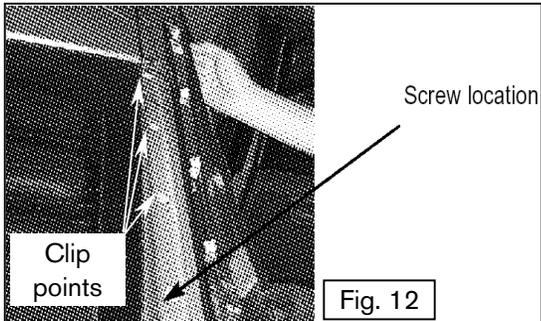
Use eye protection.

⚠ CAUTION

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

- (6) Cut the notch with die grinder and cut-off wheel.
- (7) Remove masking tape.
- (8) Remove burrs or sharp edges from the notch.
- (9) Blow away metal chips and clean gutter and notch with 50/50 alcohol/water solution.
- (10) Apply rustproof compound to the cut surface of the notch.

10. ANTENNA INSTALLATION:



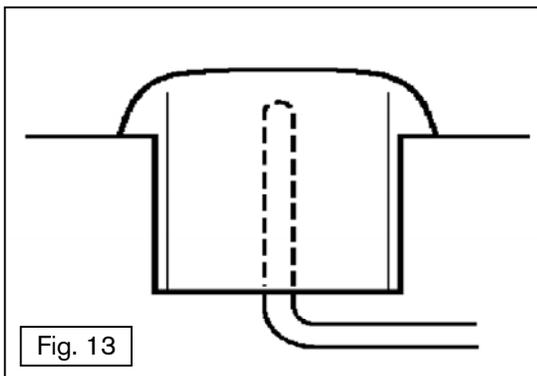
- (1) If present, remove PGF protective film from rear of the roof where antenna is to be mounted.

⚠ CAUTION

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

- (2) Remove the 10mm screw securing window trim along right side of rear window and remove trim by pulling straight up. Fig. 12

- (3) Place the antenna on the roof in the approximate position it will be mounted. This position will be on the center-line of the vehicle, use the rear window defroster vertical line as a reference. Adjust the fore/aft alignment of the antenna such that the small vertical portion of the antenna is contacting the rear edge of the roof while maintaining the smallest visible gap between the antenna tail and the edge of the roof line.

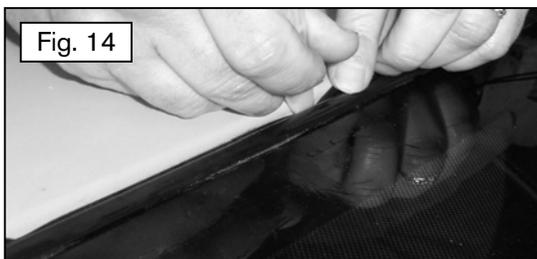


- (4) Unwrap antenna cable.

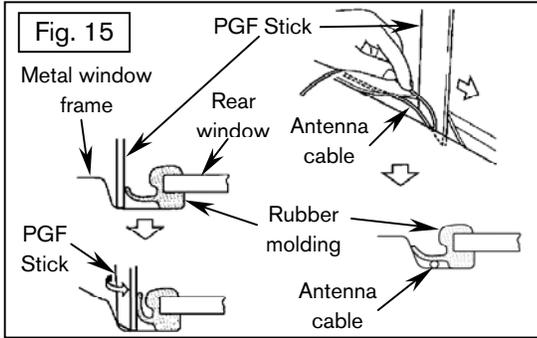
⚠ CAUTION

- Do not let the antenna cable rest on floor; it may be stepped on and damaged.
- Do not kink antenna cable.

- (5) Route the antenna cable towards the passenger side of the vehicle as it exits the flexible portion of the tail. Fig. 13



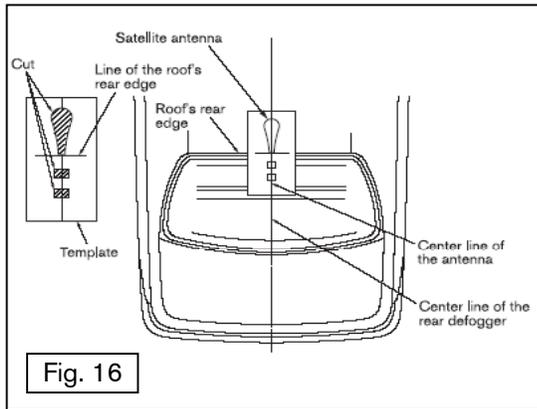
- (6) Apply soapy water to antenna cable and window rubber molding and, using a PGF stick, tuck antenna cable underneath rubber molding to right side of window. Fig. 14



NOTE

Insert the stick under the rubber molding. Twist it to make room under the rubber molding. Place the antenna cable under the rubber molding. Reference Fig. 15

- (7) Cut out antenna and tail outline and two square holes on antenna template. Fig. 16

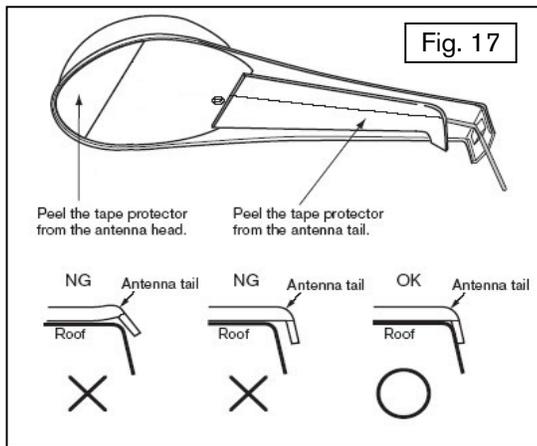


- (8) Carefully lift antenna from the roof, do not pull out the wire that was just tucked, and clean the area where the antenna is to be mounted with a 50/50 alcohol/water solution. Put antenna back on roof.

CAUTION

Do not touch or contaminate the cleaned roof or adhesive tape on the antenna to prevent reduction of adhesive strength.

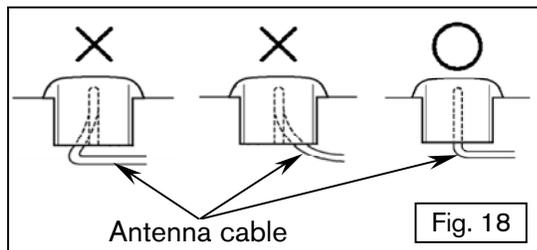
- (9) Align template to vehicle centerline at bottom of template and the 2 square holes, and roof edge. Affix to vehicle with masking tape. Use vertical defroster line for vehicle centerline. Fig. 16



- (10) Position antenna and tail in template and fine tune alignment based on centerline of template. Fig. 16

- (11) Adjust the fore/aft position of antenna such that antenna tail and roof have maximum contact surface with minimum gap at edge of roofline. Fig. 16

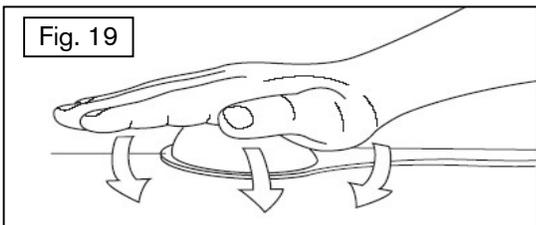
- (12) Peel tape protector from rear of the antenna tail and lay down tail. Fig. 17



CAUTION

Make sure antenna cable remains vertical under antenna tail flap. Fig. 18

Fig. 19



(13) Apply pressure along the length of the antenna tail to ensure proper adhesion.

(14) Peel tape protector from antenna and apply 20 lbs. of downward force for 20 seconds while rocking hand back and forth across top of antenna to assure proper adhesion. Fig. 19

⚠ CAUTION

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

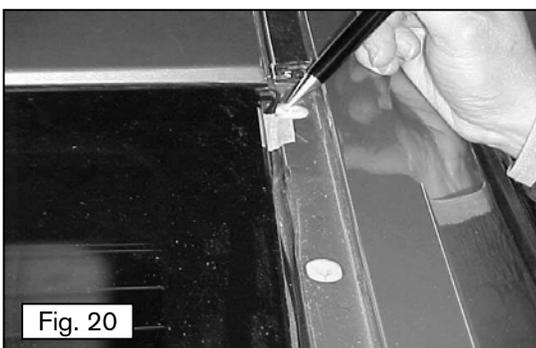


Fig. 20

(15) Remove template from vehicle.

⚠ CAUTION

- Keep vehicle inside at least one hour after applying adhesive tape.
- Avoid works imposing pressure on the adhered area including car wash within 48 hours.



Fig. 21

(16) Route antenna cable down right side of rear window to the notch area. Fig. 20 & 21

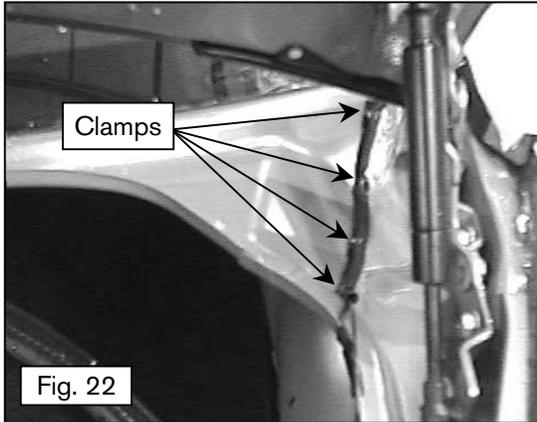
(17) Use electrical tape to secure the antenna cable to vehicle near rear window. Fig. 20

⚠ CAUTION

Do not apply too much tape as it could be visible after installation of the trim piece.

(18) Re-install right rear window trim piece with 10mm screw.

(19) Cut off 75mm of the corrugated tubing and slide remaining piece over antenna cable towards the base of the rear window.

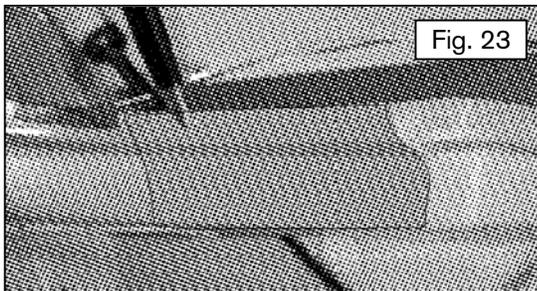


- (20) Starting 1" from right hand lower corner of window along wire affix four (4) cable clamps to gutter area towards notch as shown. Final clamp should be located as close to edge of gutter on the furthest flat horizontal surface approximately 1" from notch. Alternate the clamps while installing. Fig. 22

CAUTION

- Make sure corrugated tubing is far enough away from gutter lip so it does not interfere with trunk weather strip.
- Do not affix cable clamp on sealant.

- (21) Clean underside of the gutter, where clear tape will be applied, with 50/50 alcohol/water solution then apply clear tape to prevent abrasion as shown. Fig. 23



NOTE

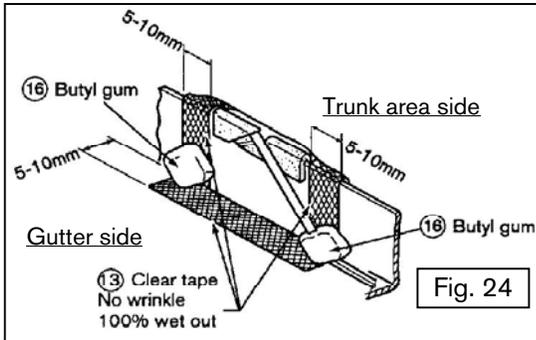
The following steps 22 to 28 are critical to water leak, therefore must be followed strictly.

- (22) Place the edge protector over the notch.
 (23) Use Alcohol wipe included in the kit to clean the surrounding area before application of clear tape.
 (24) Route the antenna cable over the edge protector by laying the cable into the channel in the rubber.

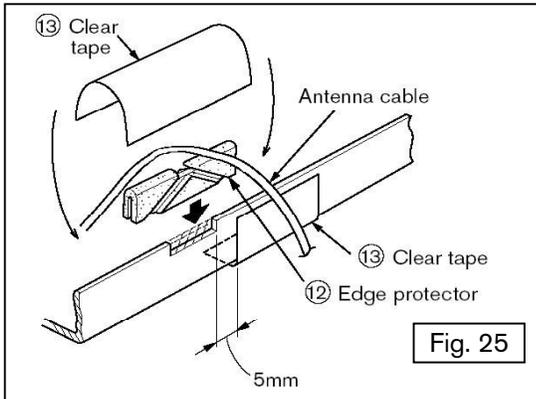
CAUTION

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

- (25) Position the clear tape above the notch without peeling off the liner to estimate the correct position for the small amount of butyl gum.
 (26) Before applying the clear tape, apply a small amount of butyl gum to bottom side of antenna cable to hold the antenna cable at the radius corner where it will enter the clear tape.



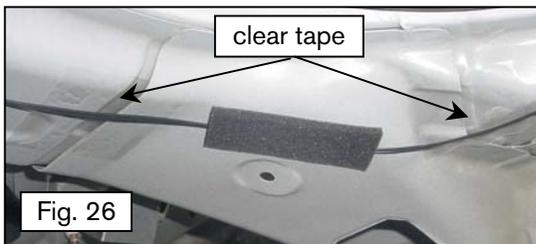
(27) Do not peel off the entire clear tape protector. Pull the clear tape protector back 10mm (3/8"). Then apply 10mm clear tape to the horizontal flat surface of the gutter. Then slowly massage the clear tape with a PGF stick until you have reached the corners. Make sure that the tape does not wrinkle. 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. Fig. 24 & 25



CAUTION

- In order to stop water from entering the trunk through the 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 wrinkles. Fig. 25

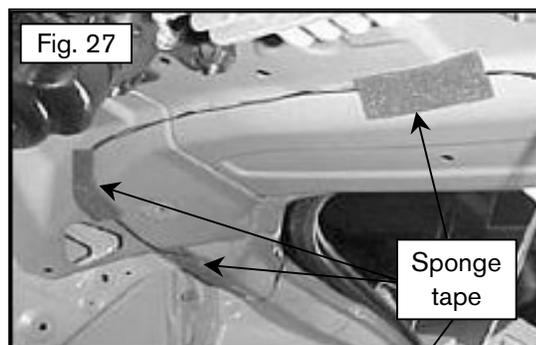
- Ensure antenna cable is entering the clear tape at the radius corner.



(28) Apply butyl gum at both ends of the clear tape. The butyl gum should fit into both corners to cover the antenna cable and opposite end of clear tape. Fig. 24

CAUTION

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



(29) Apply clear tape over the two (2) panel joints as illustrated to protect antenna cable. Fig. 26

(30) Route antenna cable to tuner/splitter location and secure to package tray with four (4) pieces of sponge tape. Fig. 27 & 28

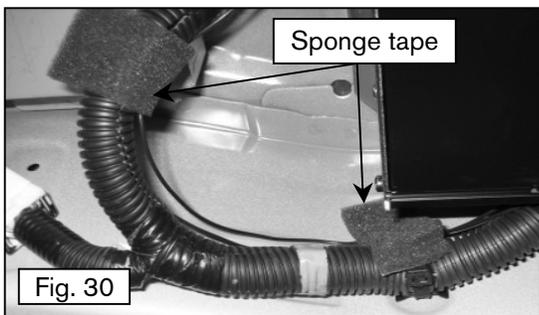




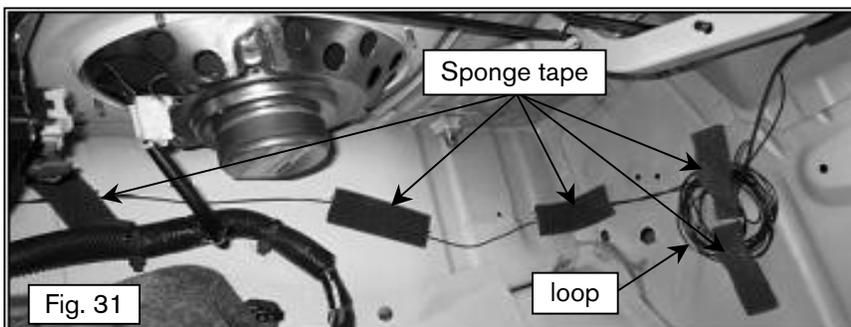
(31) Leaving enough length for the splitter connection, neatly coil excess antenna cable to create a loop 100mm (4") in diameter.

⚠ CAUTION

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



(32) Insert antenna terminal into corresponding splitter terminal. Fig. 29



(33) Working from the tuner back towards the notch secure the antenna cable to the existing harness and/or to vehicle interior trunk surfaces with five (5) pieces of sponge tape. Fig. 30 & 31

(34) Secure antenna loop to interior trunk panel with two (2) pieces of sponge tape. Fig. 31

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

- (1) Re-install all removed vehicle parts referring to the service manual for the vehicle.
- (2) Clean interior of vehicle.

13. FINAL INSPECTION

- (1) Inspect the vehicle interior and exterior for damage.
- (2) Confirm proper operation of vehicle systems including moonroof if equipped.
- (3) Reset radio presets to the recorded settings.
- (4) If equipped reset the moonroof per service manual requirement.