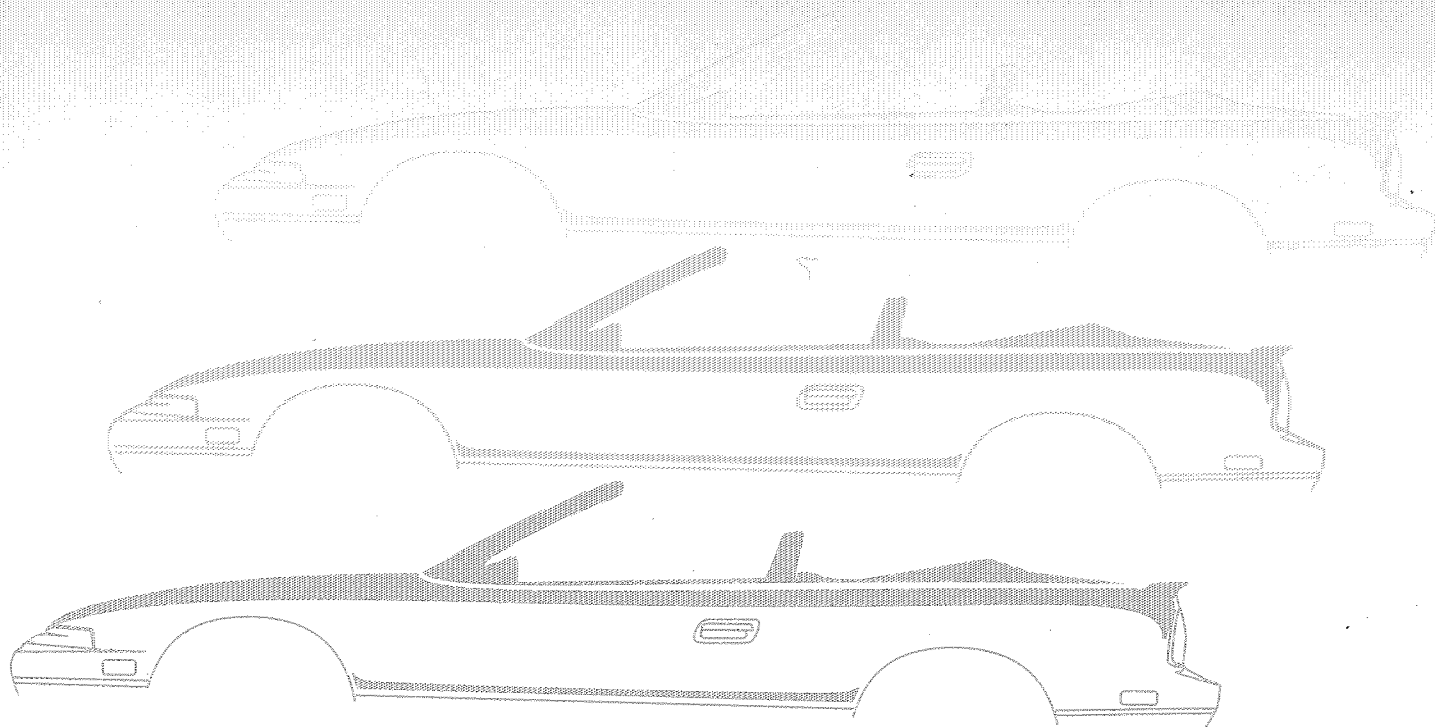


NISSAN 240SX CONVERTIBLE

NISSAN

1992



SERVICE MANUAL SUPPLEMENT

FOREWORD

This Service Manual Supplement contains repair procedures for the 1992 Nissan 240SX Coupe and 240SX Convertible. The Supplement covers Convertible matters only. If there are systems in common between the 240SX Coupe and the 240SX Convertible models, then the regular Nissan 240SX Service Manual is the best source of information. In order to assure your safety and the efficient functioning of the vehicle, refer to the applicable manual before and during the performance of any repair task.

This Service Manual Supplement is based on the latest product information available at the time of publication. Nissan reserves the right to make changes in specifications, design or methods at any time without prior notice.

IMPORTANT SAFETY NOTICE

The proper performance of service is essential to the safety of the technician and the efficient functioning of the vehicle. The service methods in this Service Manual Supplement are described in such a manner that the service may be performed safely and accurately. If you choose to use service procedures, tools or parts not specifically recommended by Nissan, you must first completely satisfy yourself that neither your safety nor the vehicle's safety will be jeopardized by the service methods selected.

NISSAN 240SX CONVERTIBLE SERVICE MANUAL SUPPLEMENT

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The 240SX Convertible is equipped with a transmission gear selector sensing switch (inhibitor switch). This switch senses what gear position the transmission gear selector is in. The inhibitor switch will permit operation of the convertible top only when the transmission gear selector is in the "P" (PARK) position. Before lowering or raising the top, using the TOP-DOWN/TOP-UP switch, the following conditions must be met.

WARNING: Releasing the convertible top clamp latches while the vehicle is in motion may cause injury to the driver or passengers and damage to the convertible top or vehicle may result.

- o The vehicle must be at a complete stop.
- o The transmission gear selector must be in the "P" position.
- o The engine should be started.
- o Ensure that all side and quarter windows are in the **DOWN** position.
- o The bypass valve must be closed (see Chapter 19).

THEORY OF OPERATION

For the complete procedure for lowering or raising the top refer Convertible Top Operation (see C-5).

Lowering the Top

The following functions occur when lowering the top using the "TOP DOWN" switch.

To lower the un-latched convertible top, press and hold the "TOP DOWN" switch on the instrument panel.

When the engine is started, the "TOP DOWN" switch is pressed and the transmission gear selector in "P" (PARK):

- o Power is directed from the inhibitor switch through the "TOP DOWN" switch, then to the "top down" relay coil portion of the top stack logic relay.
- o Power is directed from the ignition switch through two (2) 20 amp fuses, then to the "normally open" contact of the "top down" relay which supplies power to the hydraulic pump's electrical system.

Lowering the Top (cont'd)

NOTE: The top stack logic relay consists of two independent relays that are used to control current direction to the hydraulic pump's electrical motor.

When the "top down" relay is energized, it makes electrical contact, supplying the hydraulic pump electrical circuit.

The hydraulic pump/motor is then activated and the top begins to lower.

Once the top has contacted the down stops, it will not lower any further. To make sure the top has lowered completely, look for no noticeable downward movement of the top stack. You should hear the sound of the hydraulic pump slowing down.

Raising the Top

To raise the convertible top, press and hold the "TOP-UP" switch on the instrument panel.

When the engine is started, the "TOP-UP" switch is pressed and the transmission gear selector is in "P" (PARK):

- o Power is directed from the inhibitor switch through the Top-Up switch, then to the "top up" relay coil portion of the topstack logic relay.
- o Power is directed from the ignition switch through two (2) 20 amp fuses, then to the "normally open" contact of the "top up" relay which supplies power to the hydraulic pump's electrical system.

NOTE: The top stack logic relay consists of two independent relays that are used to control current direction to the hydraulic pump's electrical motor.

When the "top up" relay is energized, it makes electrical contact supplying the hydraulic pump electrical circuit.

The hydraulic pump/motor is then activated and the top begins to raise.

Once the top has completed its upward travel stopping near the windshield header, release the Top-Up switch.

Secure the top to the windshield header.

SAFETY INFORMATION

Convertible Rear Seat and Seat Belt

The 240SX Convertible is designed as a 4 passenger vehicle, with seating for two persons ONLY in the rear seat.

WARNING:

1. Do not allow more than two persons to occupy the rear seat while the vehicle is in motion.
2. While driving, each occupant of the vehicle should be secured by the appropriate seat belt.
3. Do not allow more than one person to use the same seat belt. Failure to observe the above warnings could result in serious personal injury in the event of an accident.

TOP AND REAR WINDOW APPEARANCE CARE

CAUTION: Do not use harsh or abrasive cleaners or bleaching agents on the top material or damage may result.

Cloth Top

1. Rinse top with fresh water. Wash using mild soap, lukewarm water (never hot) and a sponge. Finally, rinse the top with enough clean water to remove all traces of soap. Be careful to rinse any cleaner off the body as it may cause streaking if allowed to dry on the painted surfaces.
2. After cleaning, always be sure the top is completely dry before it is lowered. Lowering the top while it is wet or damp may cause interior water damage, water stains or mildew of the top and rear window material.

Rear Window (Backlite)

This convertible has a flexible rear window. Due to its material composition, the window is extremely susceptible to scratches and abrasions. To avoid damage to rear window, clean it as follows:

1. Generously rinse the rear window with water to loosen all dust and dirt. Start at the top of the window, using a back and forth motion. Do not spray the top.
2. Gently wash the window with warm or cold (never hot) water and a mild neutral soap. Dip your cloth into the wash bucket frequently. Change the wash water frequently to reduce the possibility of water-borne dirt scratching the window. Do not rub hard. Let the soap and water remove the dirt.
3. Rinse the window thoroughly with fresh water. If any soap dries on the window, it may cause streaking.
4. Dry the window with a soft cotton cloth. The main purpose of drying is to remove excess water so that the window will air dry without water spots. Do not rub or press hard, as this might scratch the window.
5. Before lowering the top, make sure to remove any water that may have accumulated during cleaning in the top stowage well behind the rear seat.

CAUTION:

- o If the coating on the rear window is scratched or removed, the window will become hazed and may allow mildew to form. These conditions will rapidly degrade the rear window and possibly damage the top material also.
- o Mildew may occur more rapidly if the top remains lowered for extended lengths of time under damp conditions. Mildew appears brownish in color and may give off an undesirable odor. No amount of cleaning can reverse this condition. If it occurs, the window must be replaced.
- o Do not use a dry cloth to remove even the slightest amount of dust. Use a soft cotton cloth saturated with water and gently wipe crosswise on the window.
- o Do not use a scraper, de-icing chemicals or sprays to remove frost, snow or ice from the window. In an emergency, warm water (never hot) may be used. Hot water may cause permanent warping or shrinking of the window material.
- o Do not use solvents, such as: alcohol, nail polish remover or paint thinners on the window.

Rear Window (cont'd)

- o Do not use bleach, ammonia, window cleaner or all-purpose household cleaners on the window.
- o Do not use surface protectants, beautifiers or silicone-based dressings on the window. These chemical solutions will remove the protective coating from the window.
- o Do not use plastic cleaners, polishes or waxes on the window.
- o Do not apply advertising stickers, gummed labels or adhesive tape to the window. Such items will damage the rear window.

CONVERTIBLE TOP OPERATION**WARNING:**

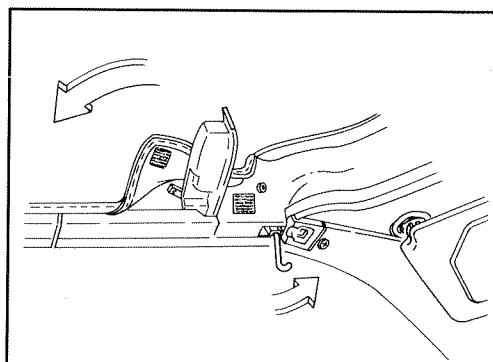
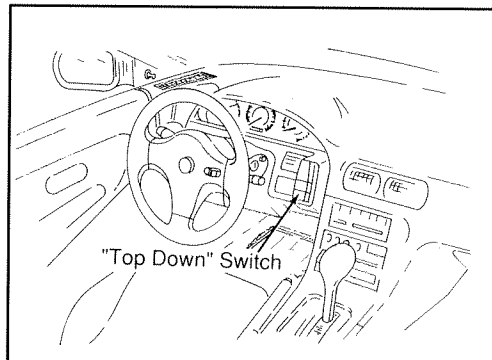
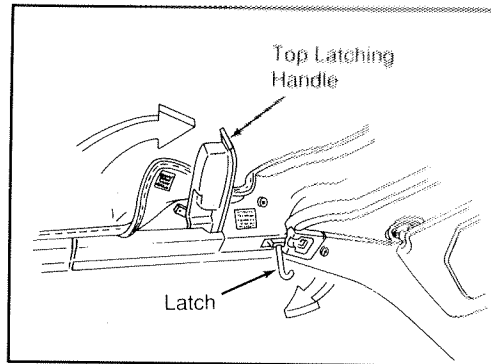
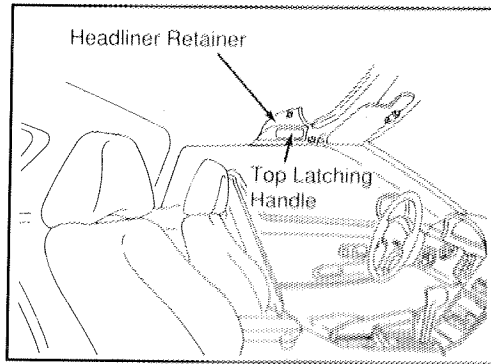
1. **When raising or lowering the top, keep hands clear from the hinges of the top side rails and any part of the top linkage.**
2. **Keep hands and any part of the body away from moving parts such as power windows and the top of the windshield where the convertible top secures.**
3. **Before and during up or down operation of the convertible top, and side and quarter windows, make sure that your passengers are made aware of your intentions. Otherwise, personal injury may result from the top, or side and quarter windows unexpectedly raising or lowering.**
4. **The vehicle should never be driven with the top partially lowered. Make sure the top has been either fully secured to the windshield header or fully lowered and the boot installed before driving.**
5. **Before lowering the top, make sure to wipe dry the top stowage well behind the rear seat of any water that may have accumulated during cleaning or inclement weather.**
6. **Make sure the bypass valve on the motor/pump assembly is closed before operating the top electrically.**

CAUTION:

- o Make sure there are no packages in the top stowage well when raising or lowering the convertible top. Even small items may interfere with top operation and can cause damage.
- o Do not sit or place excessive weight on the top when the top is up, or down. Damage to the top may result.
- o Do not use an automatic car wash to clean this convertible. Damage to the convertible top may result.
- o Do not raise or lower the top when the temperature is below 41° F (5°C). Damage to the top material and/or rear window may result.
- o Do not lower the top when the rear window is dirty. Grit and accumulated foreign matter may scratch the window.
- o Do not lower the top if the top is damp or wet. Interior water damage, stains or mildew of the top material may result.

CONVERTIBLE TOP OPERATION (cont'd)**LOWERING THE CONVERTIBLE TOP**

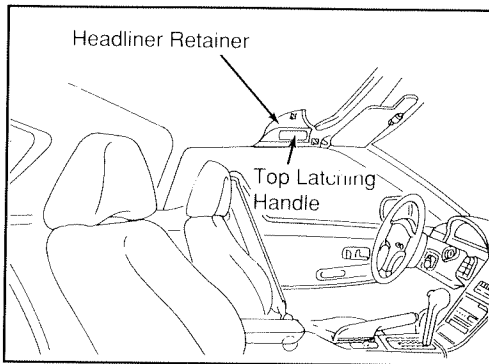
1. Set the parking brake and put the transmission gear selector in "P" (PARK).
2. Remove all items or packages from between the rear seat back and the top stowage well.
3. Start engine.
4. Ensure that all side and quarter windows are in the **DOWN** position.
5. Detach the headliner retainers from inside the top rails.



6. Pull each clamp latching handle forward until the latch is unhooked from the striker on the windshield header.
7. Press the TOP-DOWN switch until the top is 7 inches (180 mm) or more from the windshield header, then release the switch.
8. Push each clamp latching handle towards the top side rail until the handle is in its closed position.

WARNING: Make sure clamp latching handles are in the closed position when lowering the top. Otherwise personal injury to your passengers may result.

CAUTION: If the clamp latching handles remain open, damage to the handles or vehicle may result.

**LOWERING THE CONVERTIBLE TOP (cont'd)**

9. Re-attach the headliner retainers.
10. Continue pressing the TOP-DOWN switch until the top is completely down, then release the switch.
11. If desired, raise the side and quarter windows.
12. Turn the ignition switch "OFF".

CAUTION: To avoid damaging the top, do not sit or place excessive weight on the top when the top is in its lowered position.

Top Boot Installation**Install**

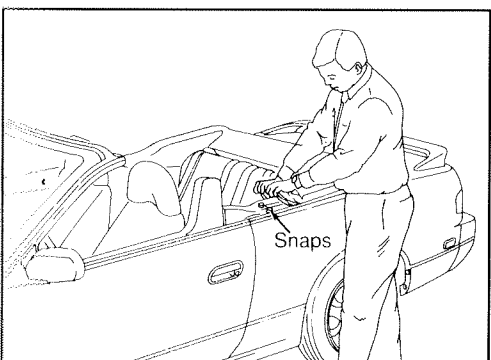
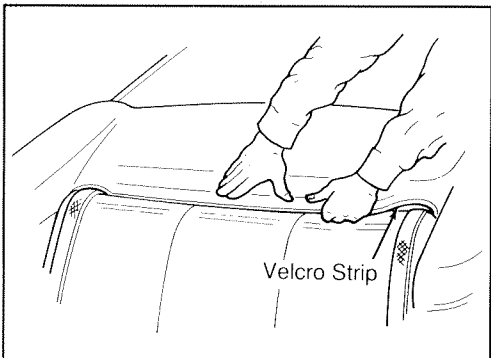
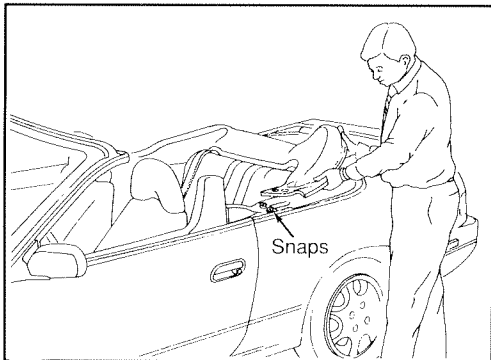
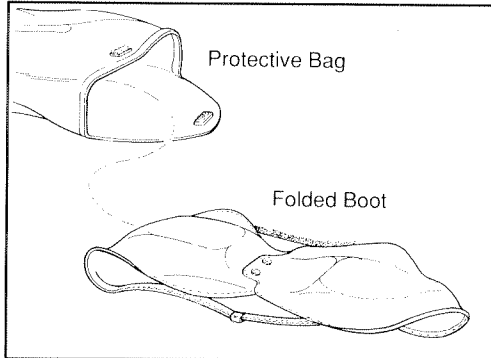
1. Remove the boot from the protective bag stored in the luggage compartment and close the trunk lid.

CAUTION: The top boot should always be used to cover the convertible top when it is completely lowered. This will protect the top and also cover the exposed top operating mechanism and frame parts that could cause personal injury under some circumstances.

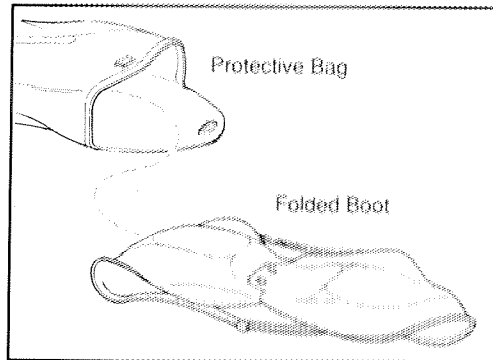
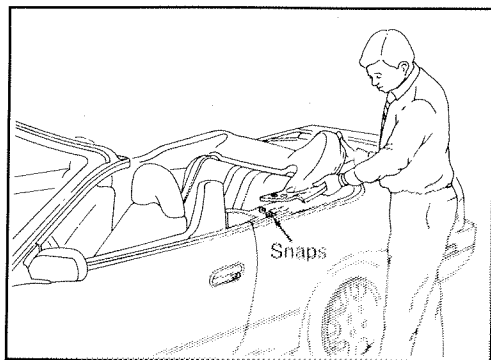
2. Place the boot in position over the lowered top.

CAUTION: To avoid damaging the top boot, make sure the clamp latching handles are in the CLOSED position before installing the boot.

3. Tuck the outer lip of the boot under the quarter and back belt trim moldings.
4. Secure the boot snaps to the quarter trim panels.
5. Tuck the inside corners of the boot down between the quarter trim panels and the seat back.
6. Attach the Velcro strip on the boot to the mating strip on the rear seat back support.

**Remove**

1. Unsnap the boot from the quarter trim panels.



Top Boot Installation (cont'd)

2. Detach the boot from the Velcro strip and remove the boot.
3. Place the boot upside down on a clean surface.

NOTE: Nissan strongly recommends the boot not be placed on the deck lid or hood when folding it. Otherwise, scratches to the vehicle finish may result.

4. Fold one leg of the boot to the middle of the boot assembly. Then, fold the second leg overlapping the first.
5. Place the boot in its protective bag and store it in the luggage compartment.

RAISING THE CONVERTIBLE TOP

WARNING: When raising the top, always make sure your head and the passenger's head are clear of the top side rails, as the side rails travel downward toward the windshield header.

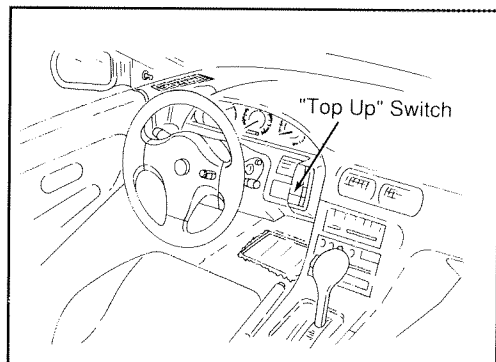
Always make sure both top latching handles are in the **CLOSED** position while raising the top. Otherwise, they may cause injury to the driver or front seat passenger as the top moves forward.

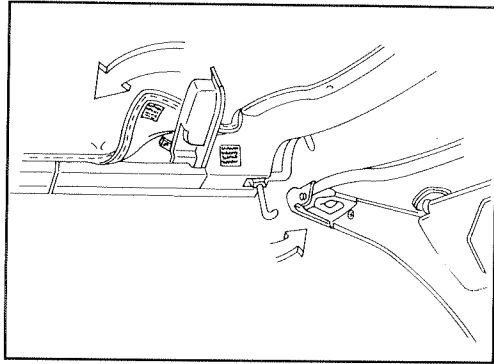
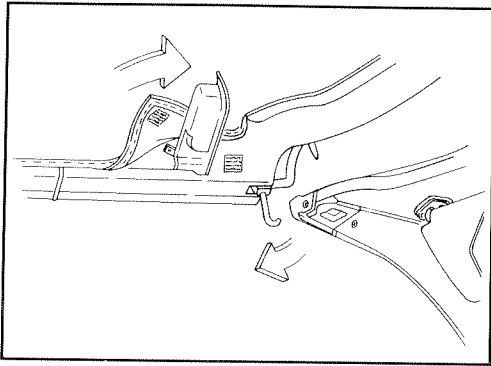
1. Set the parking brake and put the transmission gear selector in "P" (PARK).
2. Remove the boot if it is installed over the lowered top. Store the boot in its protective case in the luggage compartment.
3. Start the engine.
4. Ensure that all side and quarter windows are in the **DOWN** position.

CAUTION: Be sure to lower all side and quarter windows. Otherwise damage to the windows and/or convertible top mechanism may result.

5. Press the TOP-UP switch until the top is about 7 inches (180 mm) from the windshield header, then release the switch.

NOTE: If the top does not raise, make sure the bypass valve is closed (see Chapter 19). If the top still does not operate (see Raising The Top Manually, C-9).



**RAISING THE CONVERTIBLE TOP (cont'd)**

6. Detach the headliner retainers from inside the top rails.
7. Pull each clamp latching handle forward to its full open position.
8. Continue pressing the "Top Up" switch until the top is fully - raised toward the windshield header, then, release the switch.
9. Using the handle recessed in the header bow, pull downward to engage the guide pins into the receiver holes in the windshield header.
10. Still holding the top in place, push each top latching handle toward the top side rail until the handle is in its closed position.
11. Make sure the top is fully-secured by visually checking that the latches are properly seated in the strikers. Also, push up firmly on the top side rails.
12. Re-attach the headliner retainers.
13. If desired, raise the side and quarter windows.

CAUTION: To avoid damaging the top, do not sit or place excessive weight on the top when it is in its raised position.

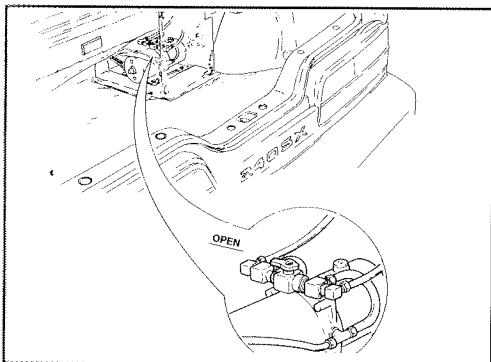
RAISING THE TOP MANUALLY

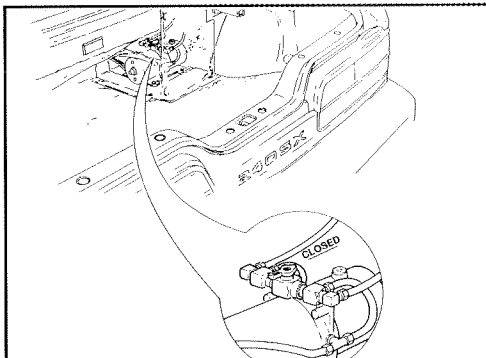
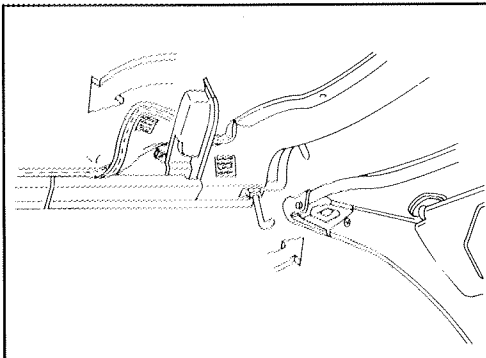
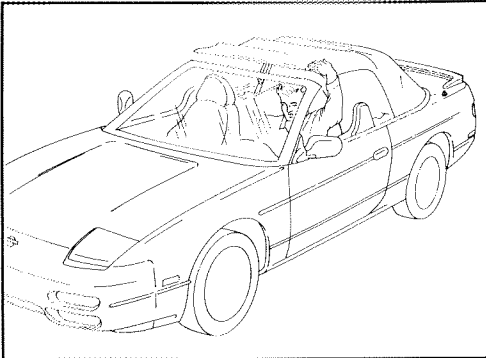
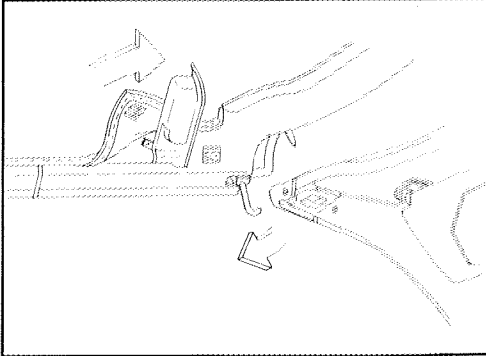
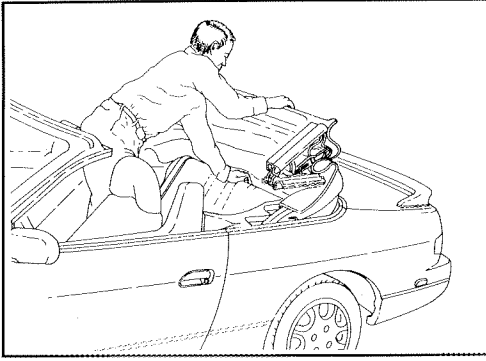
In the event the power mechanism for the top does not operate, you may raise the top manually by using the following procedure:

1. Set the parking brake and put the transmission gear selector in "P" (PARK).
2. Start the engine.
3. Ensure that all side and quarter windows are in the **DOWN** position.

CAUTION: If the battery is discharged such that the engine cannot be started, and the windows cannot be lowered, open both doors before raising the top.

4. Open the trunk lid. Reach into the right trunk trim panel surrounding the hydraulic pump.
5. Open the bypass valve by turning the valve handle clockwise 90°.



**RAISING THE TOP MANUALLY (cont'd)**

6. Standing in the rear of the vehicle, place one hand on the back of the rear seat. With the other, grasp the center of the header bow.
7. Lift and slowly raise the top until it is about 7 inches (180 mm) from the windshield header.
8. Detach the headliner retainers from inside the top rails.
9. Pull each clamp latching handle to its full open position.
10. Sitting in the front seat, grasp the outside forward edge of the top and pull down until the guide pins drop into the receiver holes in the windshield header.
11. While holding the top in place, push each clamp latching handle toward the top rail until the handle is in **CLOSED** position. Make sure the latches are fully-secured by pushing up on the top side rails firmly.
12. Make sure the top is fully-secured by visually checking that the latches are properly seated in the strikers. Also push up firmly on the top side rails.
13. Re-attach the headliner retainers.
14. Close the bypass valve by turning the valve handle counter-clockwise.

NOTE: To raise or lower the top electrically, the bypass valve must be CLOSED.
15. Close the trunk lid.

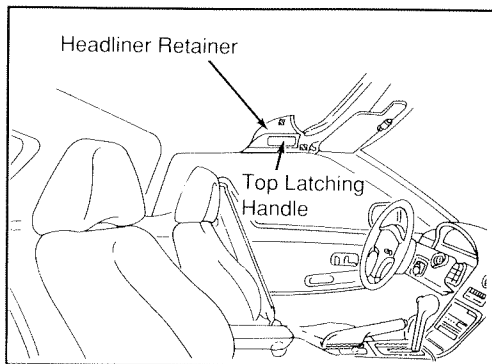
NOTE: If the system does not operate properly, take your vehicle to a Nissan dealer for diagnosis and repair.
16. Turn ignition switch "**OFF**".

LOWERING THE TOP MANUALLY

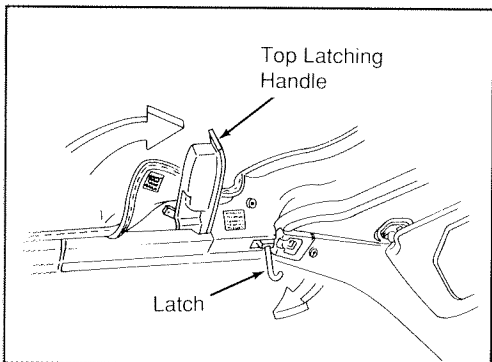
In the event the power mechanism for the top does not operate, you may lower the top manually by using the following procedure:

1. Set the parking brake and put the transmission gear selector in "P" (PARK).
2. Remove all items or packages from between the rear seat back and the top stowage well.
3. Start the engine.
4. Ensure that all side and quarter windows are in the **DOWN** position.

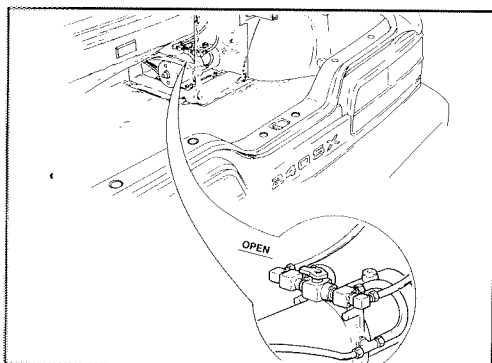
WARNING: If the battery is discharged such that the engine cannot be started, and the windows cannot be lowered, open both doors before lowering the top.



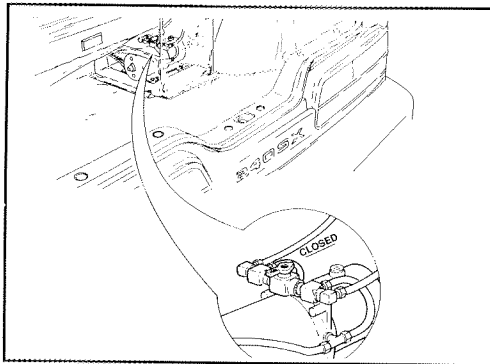
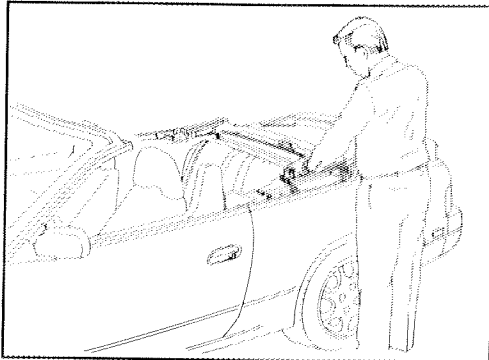
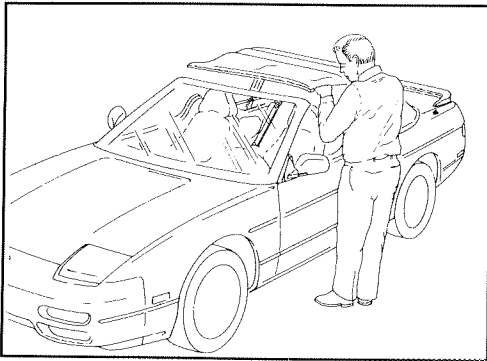
5. Detach the headliner retainers from inside the top rails.



6. Pull each clamp latching handle forward until the latch is unhooked from the striker on the windshield header.



7. Open the trunk lid. Reach into the right trunk trim panel surrounding the hydraulic pump.
8. Open the bypass valve by turning the valve handle clockwise 90°.



LOWERING THE TOP MANUALLY (cont'd)

9. Stand at either side of the vehicle. Place the palm of your hand against the underside of the forward-most edge of the top.

WARNING: Use the palm of your hand to lift the top. Do not wrap your fingers around the top side rails or personal injury may result.

10. Lift the forward section of the top. Slowly bring it rearward until it is halfway down.
11. Push each latching handle towards the top side rail until the handle is in the closed position.
12. Re-attach the headliner retainers.
13. Continue to lower the top until it is completely lowered.

14. Close the bypass valve by turning the valve handle counterclockwise.

NOTE: To raise or lower the convertible top electrically, the bypass valve must be closed.

15. Close the trunk lid.

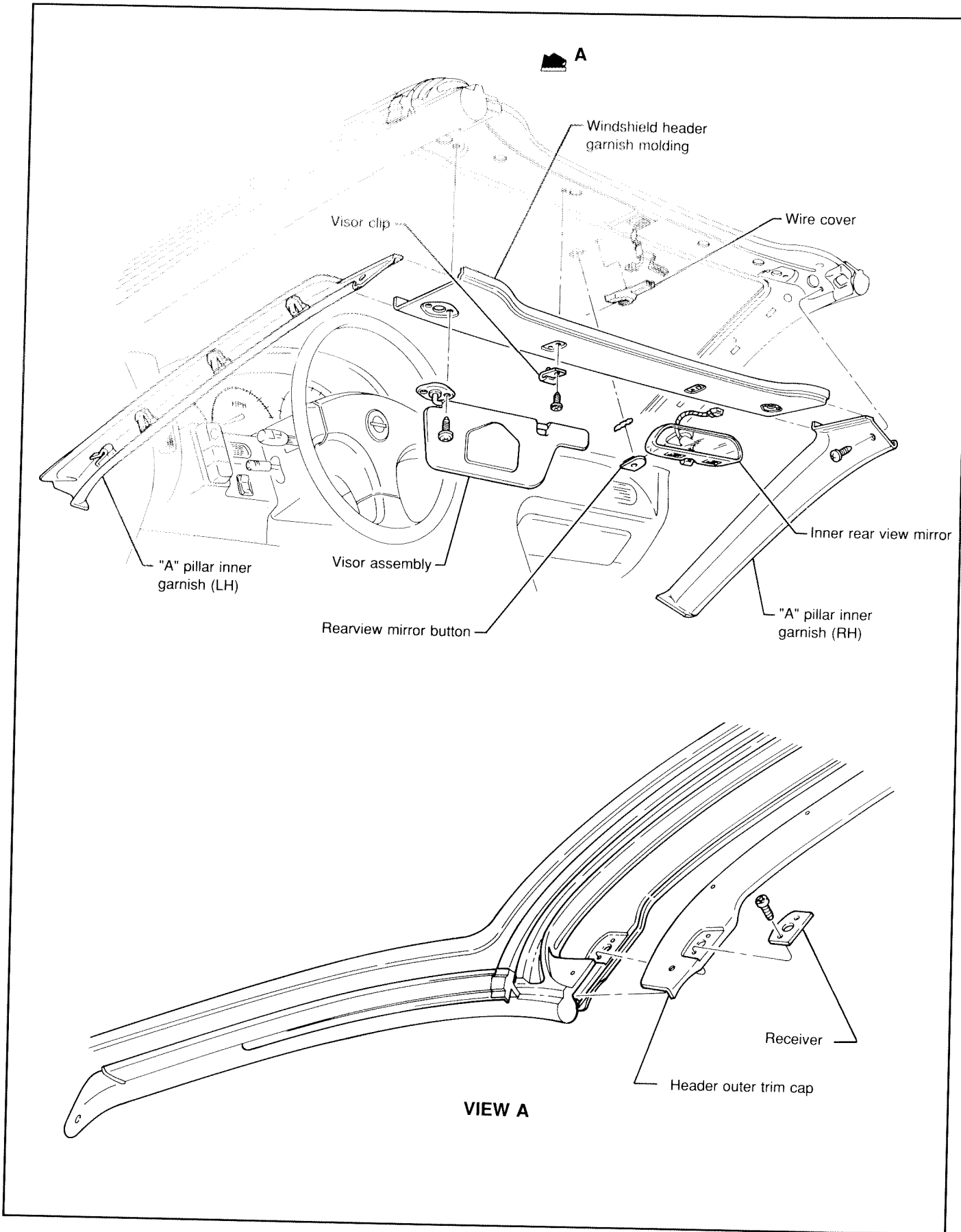
NOTE: If the system is not operating properly, take your vehicle to a Nissan dealer for diagnosis and repair.

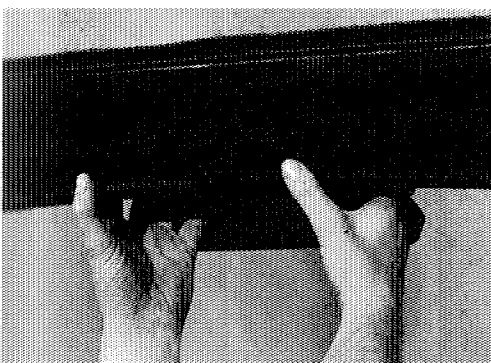
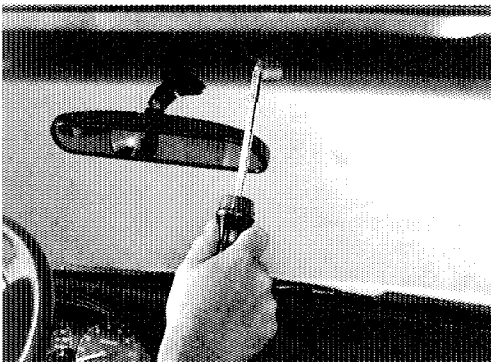
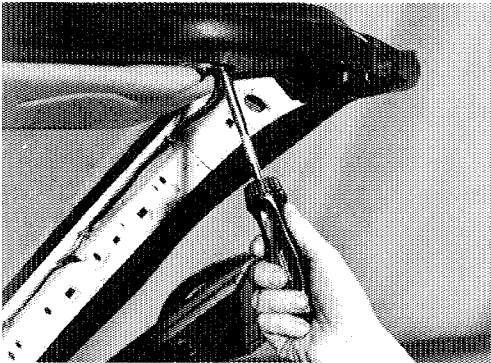
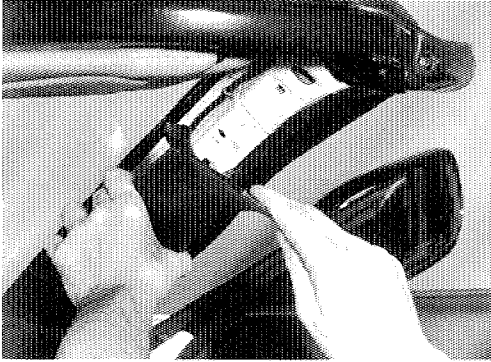
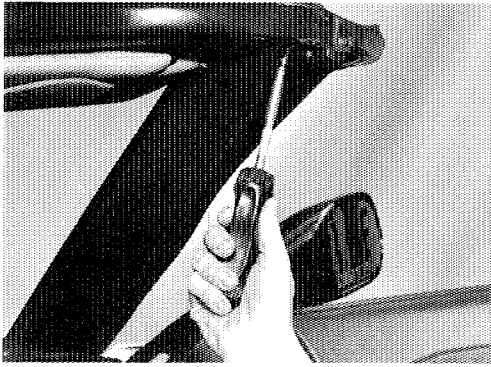
16. Turn the ignition switch "OFF".

WINDSHIELD HEADER TRIM

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WINDSHIELD HEADER TRIM COMPONENTS



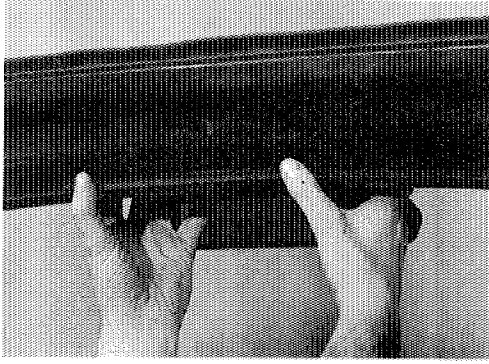


WINDSHIELD GARNISH MOLDING

REMOVE

1. LOWER CONVERTIBLE TOP.
2. REMOVE "A" PILLAR INNER GARNISH.
 - (a) Remove screw from top of garnish.
 - (b) Remove by first pulling out at the top, then pull garnish up and away from "A" pillar.
 - (c) Repeat step 2 for other side of vehicle.
3. REMOVE VISOR ASSEMBLY.
 - (a) Remove two (2) screws and visor from header.
 - (b) Repeat step 3 for other side of vehicle.
4. REMOVE VISOR CLIP.
 - (a) Remove screw and clip from header.
 - (b) Repeat step for other side of vehicle.
5. REMOVE WINDSHIELD HEADER GARNISH MOLDING.

Slide garnish molding forward and remove from vehicle.

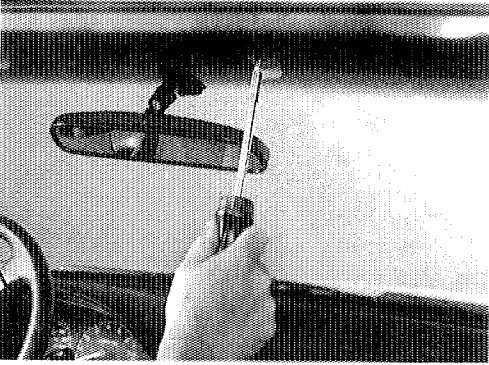


WINDSHIELD GARNISH MOLDING (cont'd)

INSTALL

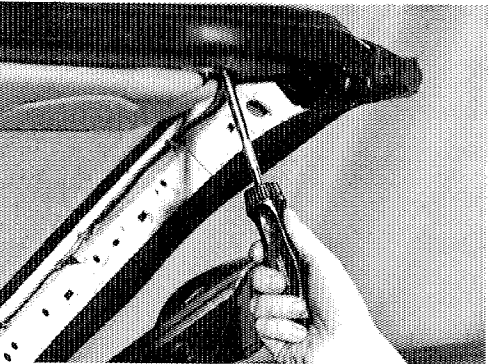
1. INSTALL WINDSHIELD HEADER GARNISH MOLDING.

Position garnish molding forward of header; then, slide it rearward into place.



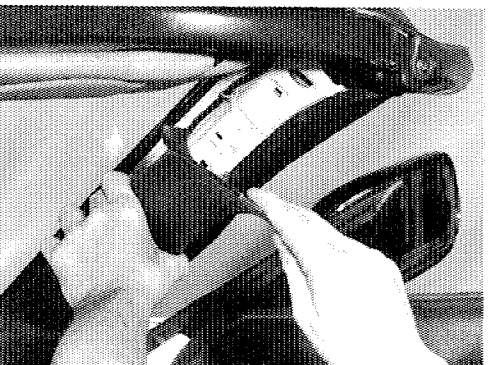
2. INSTALL VISOR CLIP.

- (a) Align garnish molding visor clip holes with header clip holes.
- (b) Position visor clip and secure using one (1) screw.
- (c) Repeat step 2 for other side of vehicle.



3. INSTALL VISOR ASSEMBLY.

- (a) Align garnish molding visor holes with header visor holes.
- (b) Position visor and secure using two (2) screws.
- (c) Repeat step 3 for other side of vehicle.



4. INSTALL "A" PILLAR INNER GARNISH.

- (a) Position garnish lower retainer to "A" pillar and push down to engage.
- (b) Firmly push remaining retainers into "A" pillar.

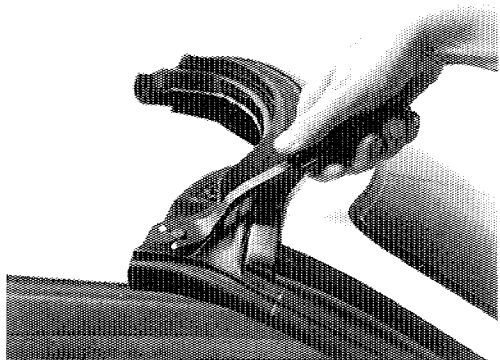


- (c) Install screw at top of inner garnish.
- (d) Repeat step 4 for other side of vehicle.

OUTER TRIM CAP

REMOVE

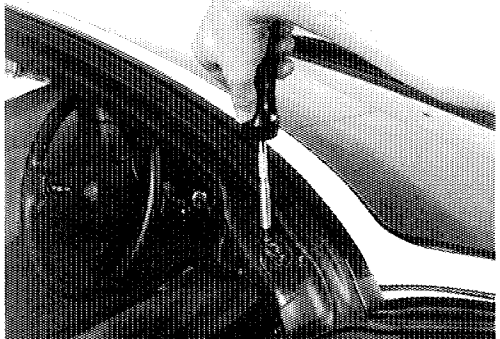
1. LOWER CONVERTIBLE TOP.
2. REMOVE RETAINER AT TOP OF EACH "A" PILLAR SECURING WEATHERSTRIP.



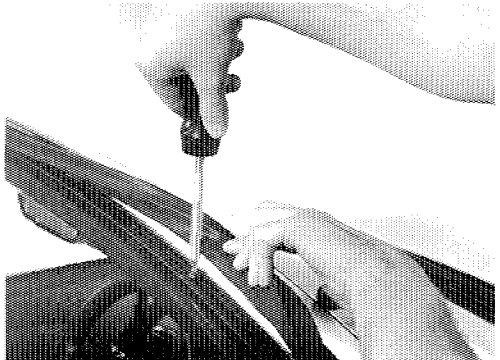
3. DETACH FRONT HEADER WEATHERSTRIP FROM RETAINER.

Using a suitable release agent (3M P/N 051135-08971 or equivalent) and a flat-bladed tool, remove weatherstrip from retainer.

NOTE: ONLY remove front header weatherstrip from front header weatherstrip retainer.



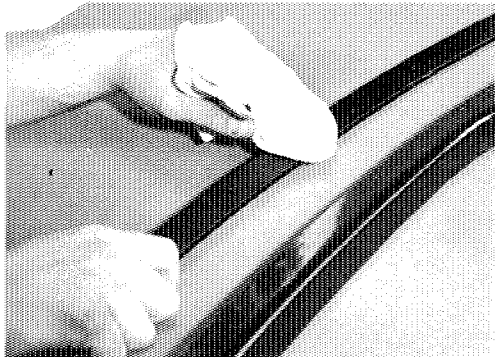
4. REMOVE FRONT HEADER LATCH RECEIVERS.
 - (a) Remove two (2) screws and latch receiver.
 - (b) Repeat step (a) on other side of vehicle.



5. REMOVE HEADER OUTER TRIM CAP.
 - (a) Hold weatherstrip material up from retainer and remove nine (9) screws.

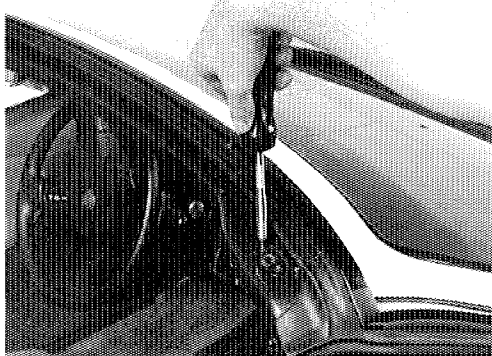
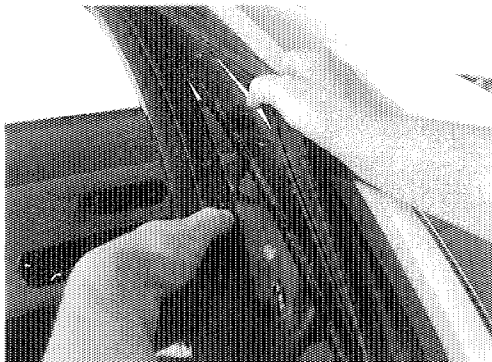
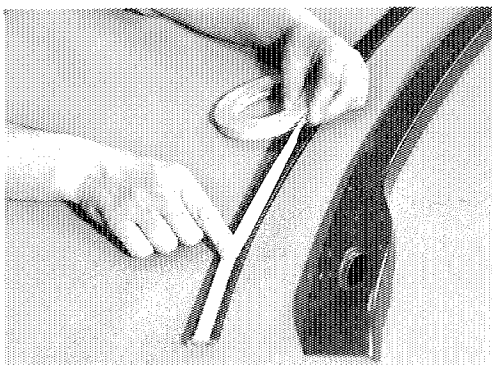
NOTE: Do not pull weatherstrip so as to disturb weatherstrip-to-header adhesive tape seal.

 - (b) Pull outer trim cap, with retainer attached, from windshield header.



6. DETACH WEATHERSTRIP RETAINER FROM OUTER TRIM CAP.

- (a) Using a suitable release agent (3M P/N 051135-08971 or equivalent) separate retainer from outer trim cap.
- (b) Clean any traces of foam tape from weatherstrip retainer.



OUTER TRIM CAP (cont'd)

INSTALL

1. ATTACH WEATHERSTRIP RETAINER TO OUTER TRIM CAP.
 - (a) Apply foam tape to bottom of weatherstrip retainer.
 - (b) Align weatherstrip retainer mounting holes with outer trim cap holes and press together.

2. INSTALL HEADER OUTER TRIM CAP.

- (a) Starting at one end, hold weatherstrip up while inserting outer trim cap and retainer.

NOTE: Do not pull weatherstrip so as to disturb weatherstrip-to-header adhesive tape seal.

- (b) Hold weatherstrip up from retainer and install nine (9) screws.

3. INSTALL FRONT HEADER LATCH RECEIVERS.

- (a) Position latch receiver (round base left side, slotted base right side) to header.
 - (b) Secure latch receivers using two (2) screws each.

4. APPLY ADHESIVE TO FRONT HEADER WEATHERSTRIP RETAINER.

Apply a continuous bead of adhesive (3M P/N 051135-08008 or equivalent) to the front weatherstrip retainer.

NOTE: Insure weatherstrip adhesive fills void at center of weatherstrip mounting surface.

5. INSTALL FRONT HEADER WEATHERSTRIP.

- (a) Secure weatherstrip ends to top of "A" pillars using retainers (push pins).
 - (b) Starting at ends, then working toward center, install weatherstrip to retainer using a flat-bladed tool.