

Halftop Installation Instructions

For: 1992 - 1995 Wrangler

Part Number: 53818

US Patent D474,145

DO NOT INSTALL THIS PRODUCT ON ANY VEHICLE OTHER THAN THOSE LISTED ABOVE.

In order to prevent sagging, pooling and leakage, remove snow and water from the rear portion of the Halftop, when applicable.



WARNING

This product is designed to enhance the appearance of the vehicle and to shield the occupants from ordinary weather conditions. Do not rely in any way on the components of this product to contain occupants within the vehicle, or to protect against injury or death in the event of an accident. This product will not protect the occupants from falling objects. Never operate vehicle in excess of manufacturer's specifications.

WEAR SEAT BELTS AT ALL TIMES

Read and follow, precisely, all installation instructions provided when installing this product. Failure to do so may result in a poor fit and could place occupants of the vehicle in a potentially dangerous situation. Failure to properly install or reinstall this product may cause the top or a component part to come off the vehicle, potentially causing an accident and possible injury to the occupants of the vehicle. After installing or reinstalling the top, check to make sure it has been properly installed.

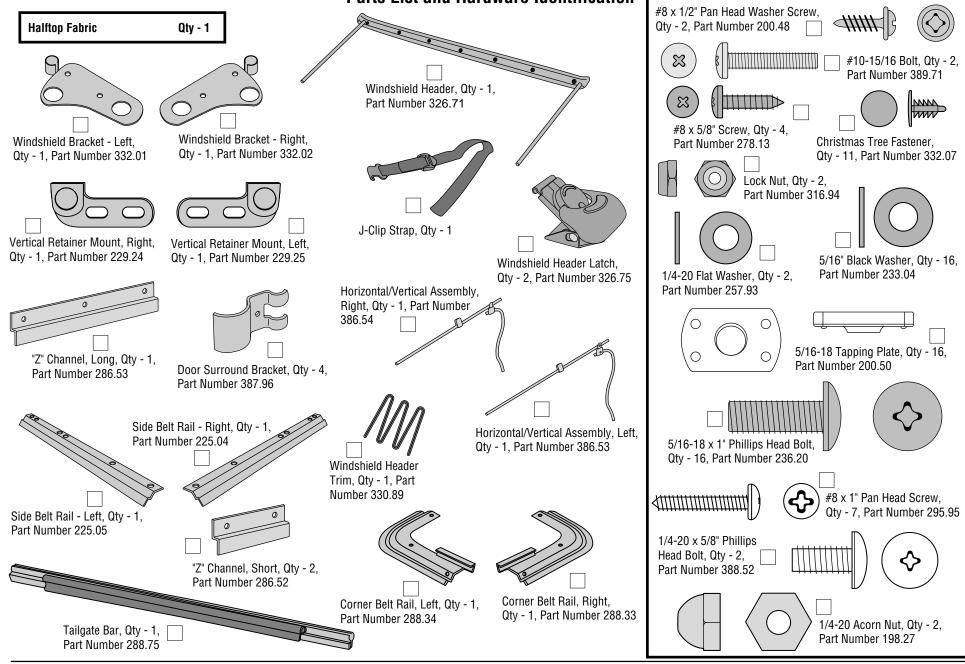
Installation Tips

Before you begin installing this top assembly, read all instructions thoroughly. After completing the installation, keep these instructions for further reference. Below are a few tips to make this installation easier.

For a smooth fit:

For ease in installation, the top should be installed at temperatures above 72° F. Below this temperature, the top may contract an inch or more, making it difficult to fit to the vehicle.

It is normal for a top to contract and wrinkle when stored in the shipping carton. Within a few days after the installation, the top will relax and the wrinkles will disappear. Parts List and Hardware Identification



Windshield Adjustment

WARNING

Improper windshield adjustment will result in poor fitting top and doors, causing looseness or undue strain on the top.

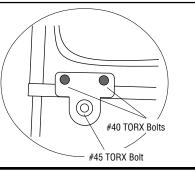
Note: Under most circumstances, the windshield of the Wrangler will not require any adjustment. If your Wrangler windshield should require adjustment, this adjustment should be performed only by an authorized automotive mechanic using a special "Tamper-Proof" Torx head tool.

Windshield Measurement

Before installing the top, check the windshield measurement. The distance from the top lip of the windshield to the top outer edge of the body must be $75 \ 1/8^{"}$ on both sides of the vehicle. Measure 4"-6" inside the doors.

Windshield Adjustment

If necessary, loosen the #40 TORX bolts in the windshield clamps to loosen the windshield in order to slip the bracket under the horizontal tube.



Slide Windshield

Bracket between

Sport Bar Mount

Windshield and the

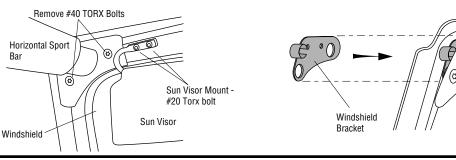
WARNING

Reinstall the bolts that secure the Horizontal Sport Bars to the windshield with a torque of 17.0 ft. lbs. each. If you do not have a torque wrench these bolts should be tested by a qualified mechanic using a torque wrench. Failure to tighten and test the torque of these bolts can result in personal injury or loss of life to the driver and occupants of the vehicle in the event of an accident.

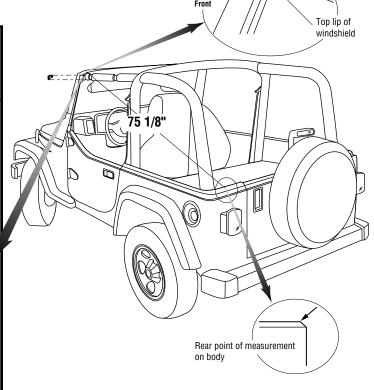
Step One

Use a #20 Torx to remove the outboard sun visor fasteners on both sides of the windshield frame. Remove the two #40 Torx head bolts that secure the horizontal sport bar to the windshield frame. Slide the Windshield Brackets between the windshield and the horizontal sport bar mounts.

Reinstall the Torx head bolts, starting each in the frame with your fingers. After the Torx head bolts are started by hand, tighten with your rachet and Torx drive tool. Do not lay this tool aside until both bolts are completely tightened. If you tighten one of these bolts and the telephone rings - LET IT RING. NEVER LAY THIS TOOL ASIDE OR INTER-RUPT THIS PROCEDURE. This procedure should be followed carefully on both sides of the vehicle. Use the #20 Torx to reinstall the sun visor.



Tools Needed		
1/8", 7/32", 3/8" Drill Bits Drill Motor Center Punch Pencil #40 Torx - Optional	#20 Torx #45 Torx - Optional Flat Screwdriver Phillips Screwdriver Hammer	Adjustable Wrench 10' Tape Measure Ratchet Safety Glasses
	Cautio	on
Safety glasses should be worn at all times while installing this product.		
	asurement tail Front	Tape Measure





Hardware Installation



Check for wiring and fuel lines before drilling holes in riser.

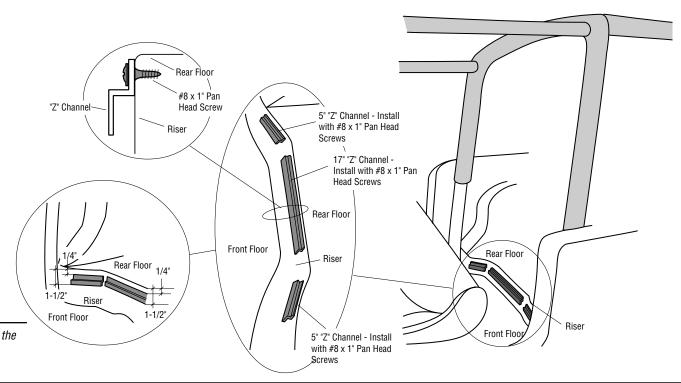
Do not remove the "Z" Channel from your vehicle once it has been installed. If this is necessary, make sure the screw holes have been covered with a sealer.

Step Two

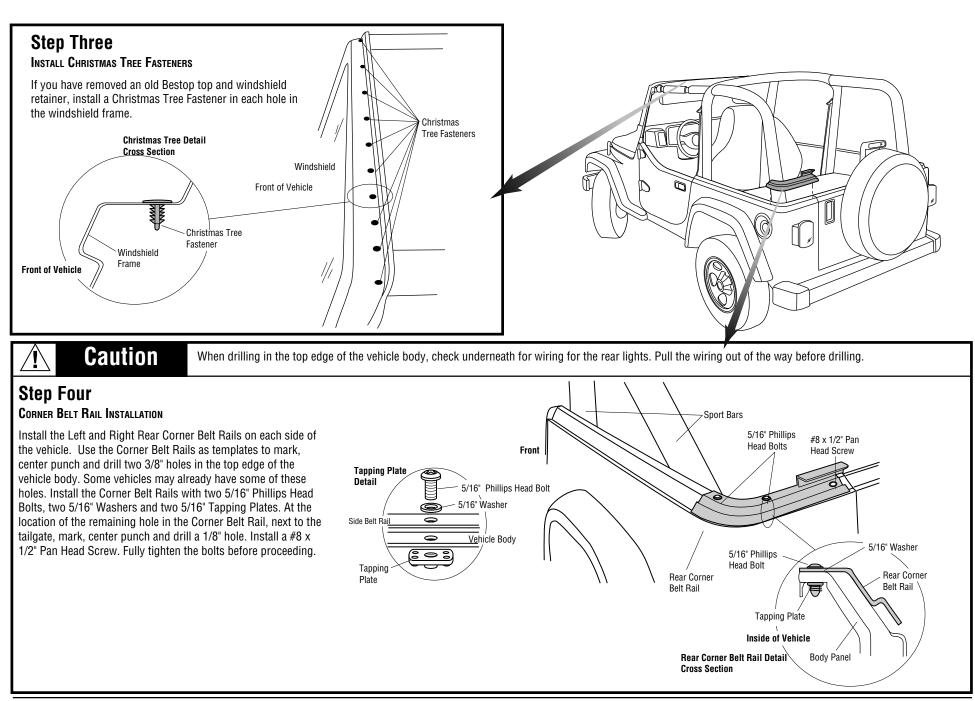
"Z" CHANNEL INSTALLATION

Fold the front seats forward and locate the three pieces of "Z" Channel in the parts kit. Install the three pieces of "Z" Channel on the vertical face of the riser between the front and rear floors. The 17" piece will be centered in the flat area in the middle of the vehicle. The two 5" pieces will be installed on the sides of the curve. The top edge of all channel pieces should be 1/4" below the top of the riser. The bottom edge of the channel should be 1 1/2" down from the top of the riser. Use the holes in the channel pieces as guides to mark, center punch and drill 1/8" holes. Install the three pieces of channel using the #8 x 1" Pan Head Screws from the parts kit.

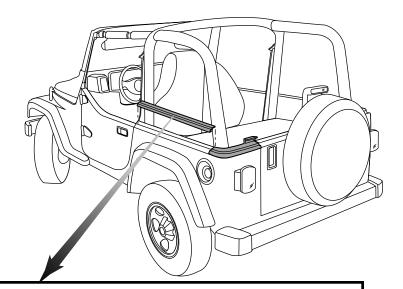
Note: After drilling the holes for the "Z" Channel in the floor riser, put silicone sealer on the holes before installing the channel with the screws.













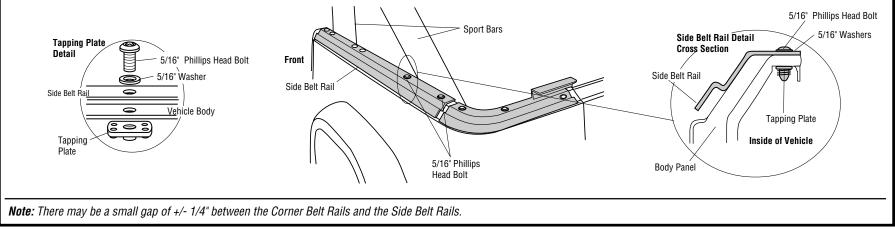
When drilling in the top edge of the vehicle body, check underneath for wiring for the rear lights. Pull the wiring out of the way before drilling.

Step Five

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Side Belt Rail Installation

Install the Left and Right Side Belt Rails on each side of the vehicle. Notice that the Corner Belt Rails do not butt-up against the Side Belt Rails installed in Step 3, this is normal. Use the Belt Rails as templates to mark, center punch and drill six 3/8" holes along the top edge of the body on each side of the vehicle. Some vehicles may already have four of these holes. Secure the two **rear** holes in the rails with two 5/16" Phillips Head Bolts, two 5/16" Washers and two 5/16" Tapping Plates. Fully tighten the bolts before proceeding.

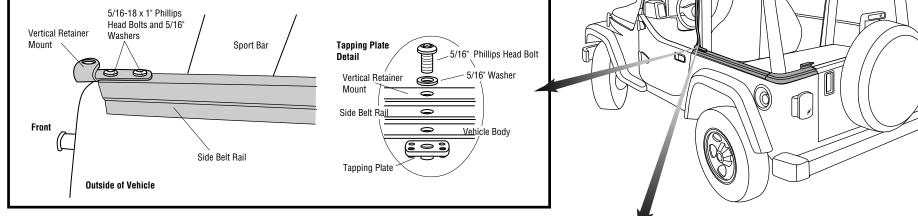




Step Six

Vertical Retainer Mount Installation

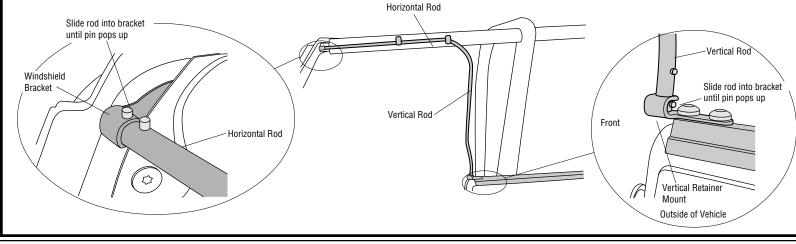
Install the Vertical Retainer Mounts on top of the Side Belt Rails, just behind the door openings. Secure them in place with two 5/16-18 x 1" Phillips Head Bolts, two 5/16" Washers and two 5/16" Tapping Plates. For final door adjustments, see Step 23.



Step Seven

HORIZONTAL/VERTICAL ASSEMBLY INSTALLATION

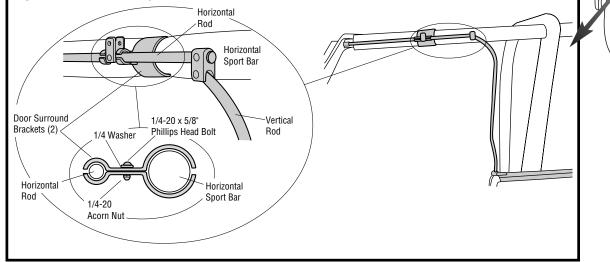
Orient the Left and Right Horizontal/Vertical Assemblies on the vehicle. Insert the Vertical Rods into the hole in the Vertical Retainer Mount until the spring button on the rod pops up through the Vertical Retainer Mount. Slip the end of the Horizontal Rod into the tube on the Windshield Bracket until the spring button on the rod pops up through the Windshield Bracket.





Step Eight Install Door Surround Brackets

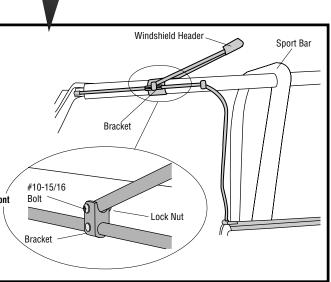
Locate the Door Surround Brackets in the parts kit. Install the brackets as pairs, one pair on each side of the vehicle. Place each pair with the large bend around the horizontal sport bar and the small bend around the horizontal bar of the Horizontal/Vertical Assembly. The cut out in the small bend will fit around the Windshield Header Mount Bracket. Install a $1/4-20 \times 5/8$ " Phillips Head Bolt and a 1/4 Washer from the top with a 1/4-20 Acorn Nut from the bottom. Tighten the brackets securely.



Step Nine

Install Windshield Header

Orient the Windshield Header on the vehicle. Lay the header on top of the sportbar with the snap studs facing up. Place the legs of the header into the bracket above the door opening on each horizontal rod. Install the legs in the brackets with a #10-15/16 Bolt and Lock Nut on each side.



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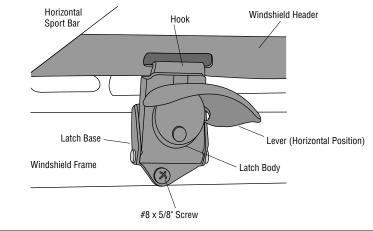
Improper Latch installation will result in a poor fitting Header that could rattle or release under driving conditions.

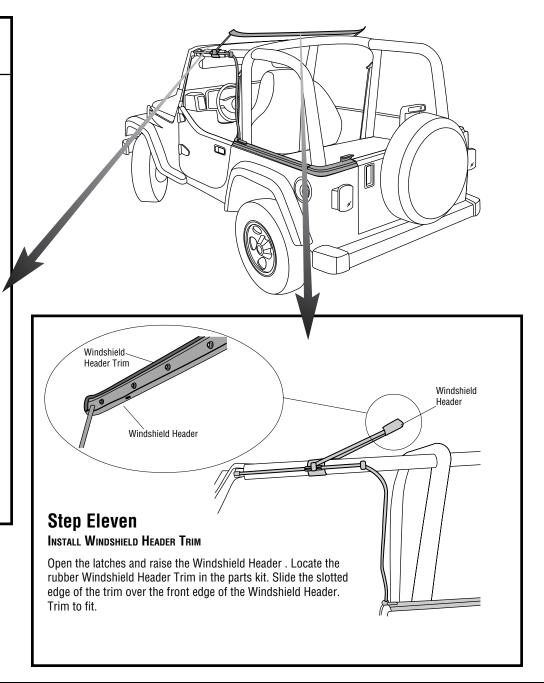
Step Ten

INSTALL WINDSHIELD HEADER LATCHES

Rotate the Windshield Header down onto the top of the windshield.

Locate the two Windshield Header Latches in the parts kit. Make sure that the latches are in the closed position, with the hook retracted. Hook each latch in the slots in the Windshield Header. Pull Header down flat on the windshield. Pop the lever out into the horizontal position and mark the location of the bottom hole in the latch. Remove the latch from the slot and spring the body of the latch towards you so that it is perpendicular to the base and so that you can access the top mounting hole. Place the latch back in position with the bottom hole over the mark on the windshield and mark the location of the top hole. Remove the latch, center punch the marks and drill two 1/8" holes per latch in the windshield frame. Install each latch with two $\#8 \times 5/8$ " Screws.





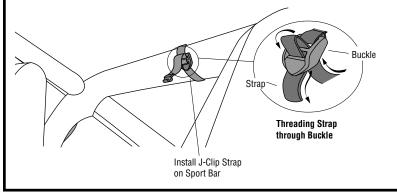


Halftop Fabric Installation

Step Twelve

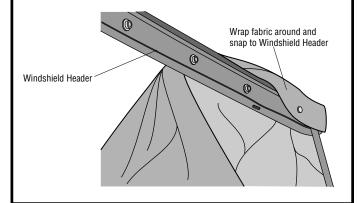
INSTALL J-CLIP STRAP

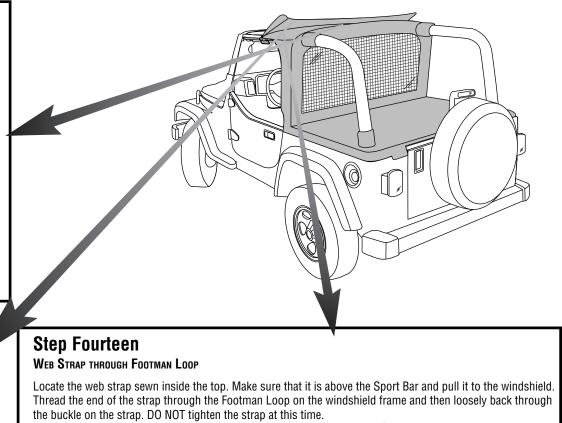
The J-Clip Strap in the parts kit is to secure the fabric when the Sun roof is open. To install the strap, orient it with the plastic J-Clip toward the front of the vehicle and with the clip opening up. Wrap the long end of the strap over the top and around the Sport Bar and thread the end through the buckle sewn to the strap.

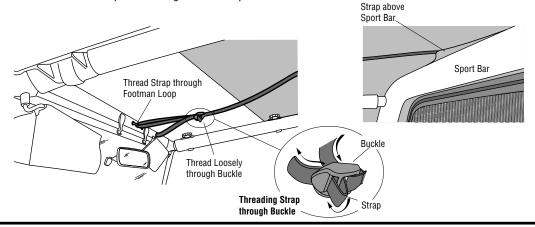


Step Thirteen Attach Halftop to Windshield Header

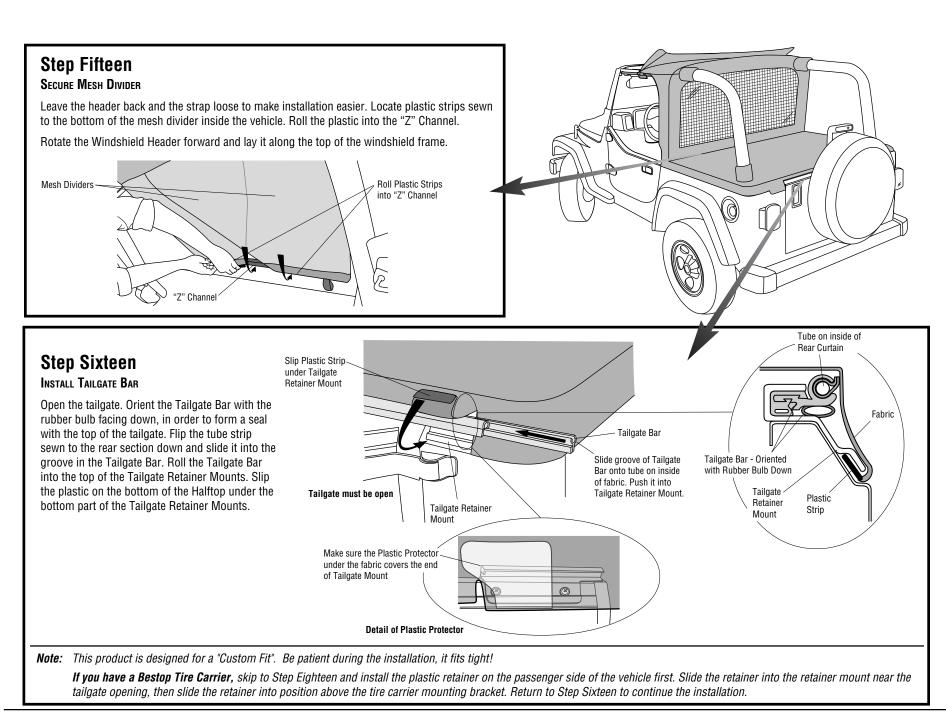
Locate the top and orient it on the vehicle. Drape the top over the bows and wrap the front edge of the fabric around the front edge of the Windshield Header. Snap the fabric to the header.







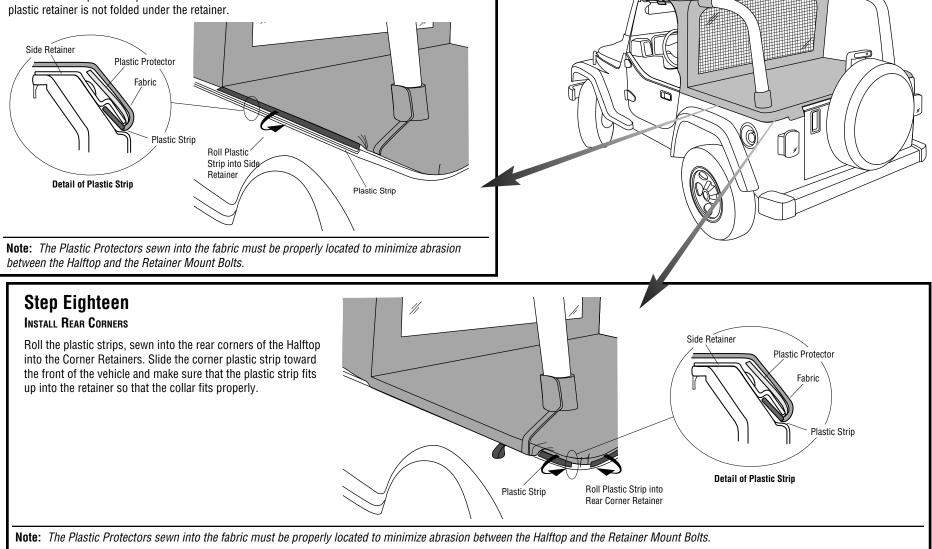




Step Seventeen

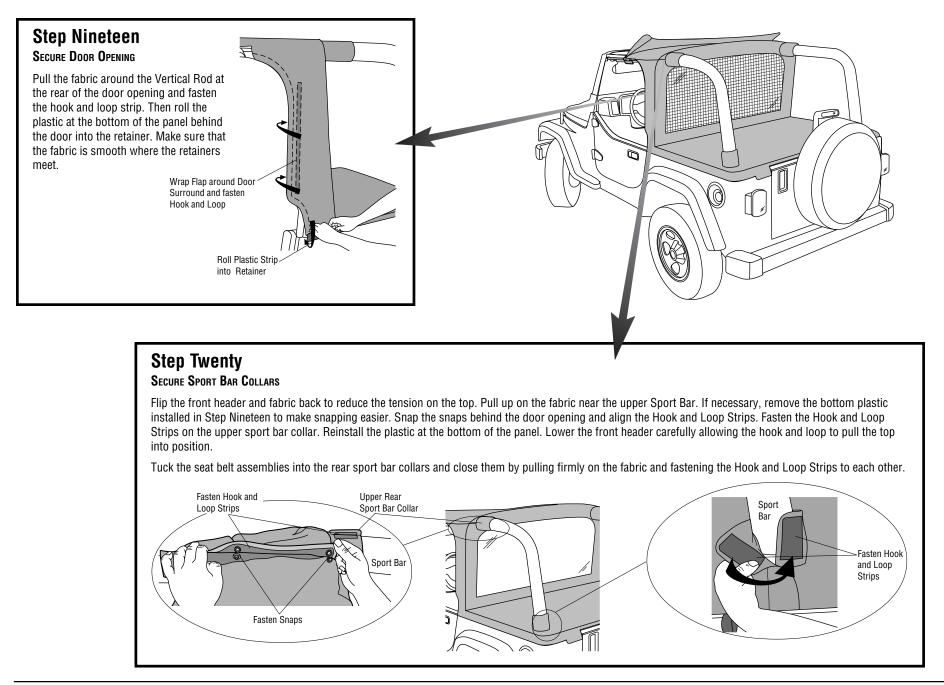
INSTALL SIDE RETAINERS

Locate the plastic strip sewn to the Halftop along each side of the vehicle. Start at one end on each side and roll the plastic strip into the Side Retainers. Make sure that the 5/8" web at the front of the plastic retainer is not folded under the retainer.

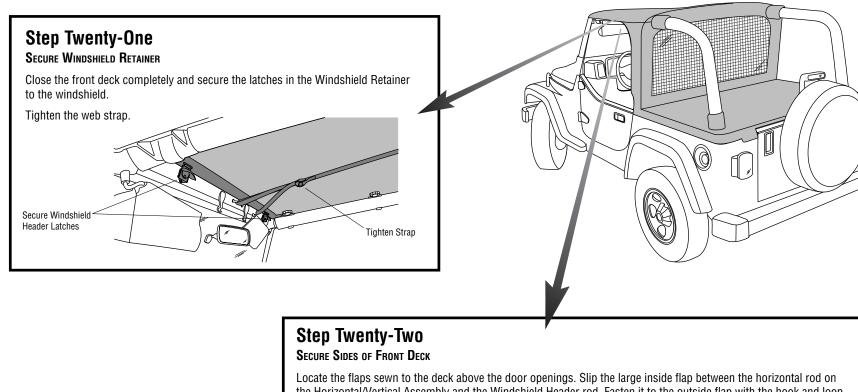


If you have a Bestop Tire Carrier, install the plastic retainer on the passenger side of the vehicle first. Slide the retainer into the retainer mount near the tailgate opening, then slide the retainer into position above the tire carrier mounting bracket. Return to Step Sixteen to continue the installation.

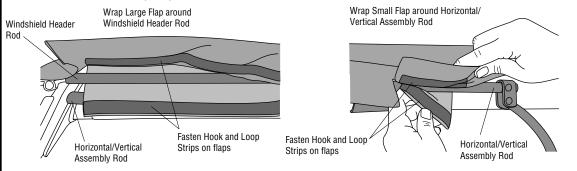








the Horizontal/Vertical Assembly and the Windshield Header rod. Fasten it to the outside flap with the hook and loop fastener. Wrap the small flap at the rear of the opening around the horizontal rod on the Horizontal/Vertical Assembly and fasten the hook and loop strips.





WARNING

If any of these adjustments are made, make sure that each area has been retightened. Each area should be rechecked within a week to assure proper fit and function.

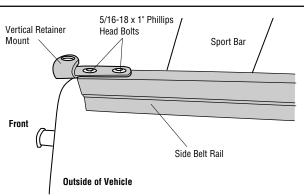
Note: Now that your soft top is fully installed, there are some final Metal Door adjustments that may need to be made to give you the best weather seal possible.

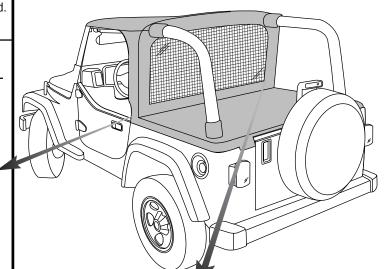
Step Twenty-Three

VERTICAL RETAINER ADJUSTMENT

The Vertical Retainer mount may be loosened and moved either forward or to the rear of the vehicle to tighten the seal or to allow more clearance.

Check and fully tighten all bolts after the final adjustments are complete.





Step Twenty-Four

To start the zipper, pull the two sliders as far down as possible on the passenger's side of the window in order to catch the sliders to the pin.

Once the zipper is caught, start the top slider 1/2". Then hold up the top of the window with one hand and close the zipper with the other. The zipper is sandwiched between layers of fabric in the corners so be careful not to catch extra fabric in the zipper. Close the zipper.

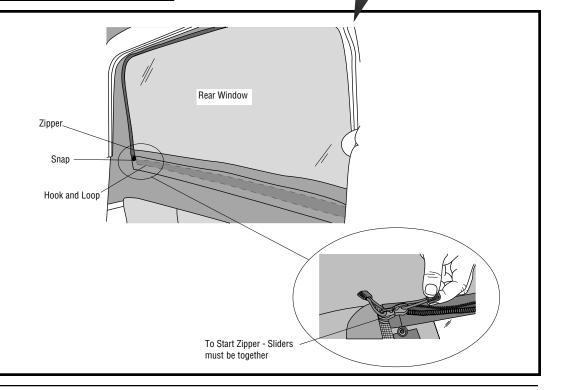
Make sure that the Tailgate Bar is centered and is securely in the mounts. Then tuck the flaps on the Rear Window under the top fabric.

Removing Window

To remove the window completely, unzip it and release the snaps at the bottom corners. Then release the Hook and Loop strip along the bottom of the window opening.

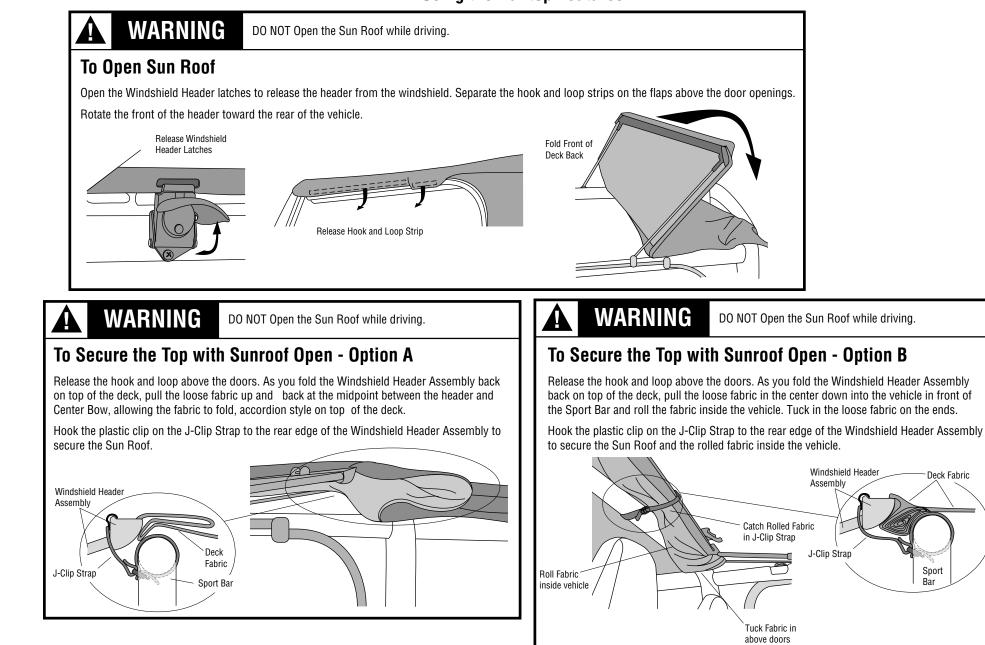
Reinstalling Window

In order to reinstall the window all the zipper slides must be together at the end of the zipper or they will not catch properly. Close the zipper, secure the Hook and Loop strip along the bottom and attach the snaps on the corners.





Using the Halftop Features



Deck Fabric

Sport

Rev. D 0410

Rar



MBestno

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Care and Maintenance of your Bestop Product

Your Bestop product is made of the finest materials available. To keep it looking new and for the maximum possible wear, it will need periodic cleaning and maintenance.

Washing: The fabric should be washed often using soap, warm water and a soft bristle brush. Rinse with clear water to remove all traces of soap or use Bestop-recommended Bestop Cleaner and Bestop Protectant. Bestop Cleaner and Bestop Protectant are specially formulated to provide a total cleaning and protection system. Bestop Cleaner will not harm vehicle finish, is biodegradable and environmentally friendly. Bestop Protectant protects against UV-fading, cracking and hardening.

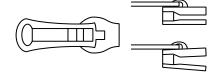
Windows: Keep windows clean to avoid scratching. DO NOT use a brush on the windows! Wash with a water-soaked cloth or sponge and a mild dishwashing detergent or use Bestop-recommended Bestop Vinyl Window Cleaner, which safely cleans and protects vinyl windows while helping prevent UV damage.

NEVER WIPE THE WINDOWS WHEN THEY ARE DRY. Be careful when cleaning snow or frost from the vinyl windows since they are easily scratched and may crack at low temperatures. DO NOT roll the sides or rear window in cold weather. The windows become stiff and will crack.

Zippers: Keeping the zipper cleaned and lubricated with a silicone lubricant will help prevent damage and keep the zippers in a smooth working condition. If a zipper opens behind the slider, the slider may have been spread apart. This problem can usually be repaired by using an ordinary pair of pliers to bring the sides back into parallel. Return slider to the end of the zipper in the normal Open position. Squeeze lightly at first and test the zipper. If the zipper continues to remain open squeeze more firmly with the pliers and try the zipper again. Repeat this procedure until the zipper operates correctly.

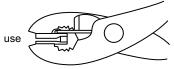
Water: Seeping through at the seams may be stopped by applying 3-M Scotchgard® on the inside of the seams. Rips in the fabric may be repaired with Bondex® iron on patches. Iron the patches to the Inside of the top, carefully following the Bondex® instructions.

Snaps: Keep snaps cleaned and lubricated with silicone to help prevent snaps from sticking to the studs. If a snap does become stuck to a stud, use a screwdriver and GENTLY pry apart to prevent permanent damage to the snap or the top fabric.



Normal Slider -Jaws Parallel

Damaged Slider -Jaws Spread Apart (sometimes broken)



LIMITED WARRANTY

We warrant our product to be free from defects in material and workmanship, for the terms specified below, provided there has been normal use and proper maintenance. This warranty applies to the original purchaser only. All remedies under this warranty are limited to the repair or replacement of any item or items found by the factory to be defective within the time period specified. If you have a warranty claim, first you must call our factory at the number below for instructions. You must retain proof of purchase and submit a copy with any items returned for warranty work. Upon completion of warranty work, if any, we will return the repaired or replaced item or items to you freight prepaid. Damage to our products caused by accidents, fire, vandalism, negligence, misinstallation, misuse, Acts of God, or by defective parts not manufactured by us, is not covered under this warranty.

THE WARRANTY TIME PERIOD IS AS FOLLOWS FOR REPLACE-A-TOP™, SAILCLOTH REPLACE-A-TOP™, SUPERTOP®, SUPERTOP® REPLACEMENT SKINS, SUNRIDER®, AND TIGERTOP®: TWO YEARS FROM DATE OF PURCHASE.

THE WARRANTY TIME PERIOD IS AS FOLLOWS FOR ALL OTHER "SOFT GOODS" MANUFACTURED BY OUR COMPANY (USING PRIMARILY VINYLS, PLASTICS, AND/OR FOAM): ONE YEAR FROM DATE OF PURCHASE.

THE WARRANTY TIME PERIOD IS AS FOLLOWS FOR ALL OTHER "HARD GOODS" MANUFACTURED BY OUR COMPANY (USING PRIMARILY METALS, PLASTICS, AND/OR FIBERGLASS): ONE YEAR FROM DATE OF PURCHASE.

ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE CREATED HEREBY ARE LIMITED IN DURATION TO THE SAME DURATION AND SCOPE AS THE EXPRESS WRITTEN WARRANTY. OUR COMPANY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For further information or request for warranty work, please contact: Bestop Inc., Customer Service Toll-Free: (800)845-3567 Main: (303)465-1755 E-mail: csbestop@Bestop.com Website: www.Bestop.com

