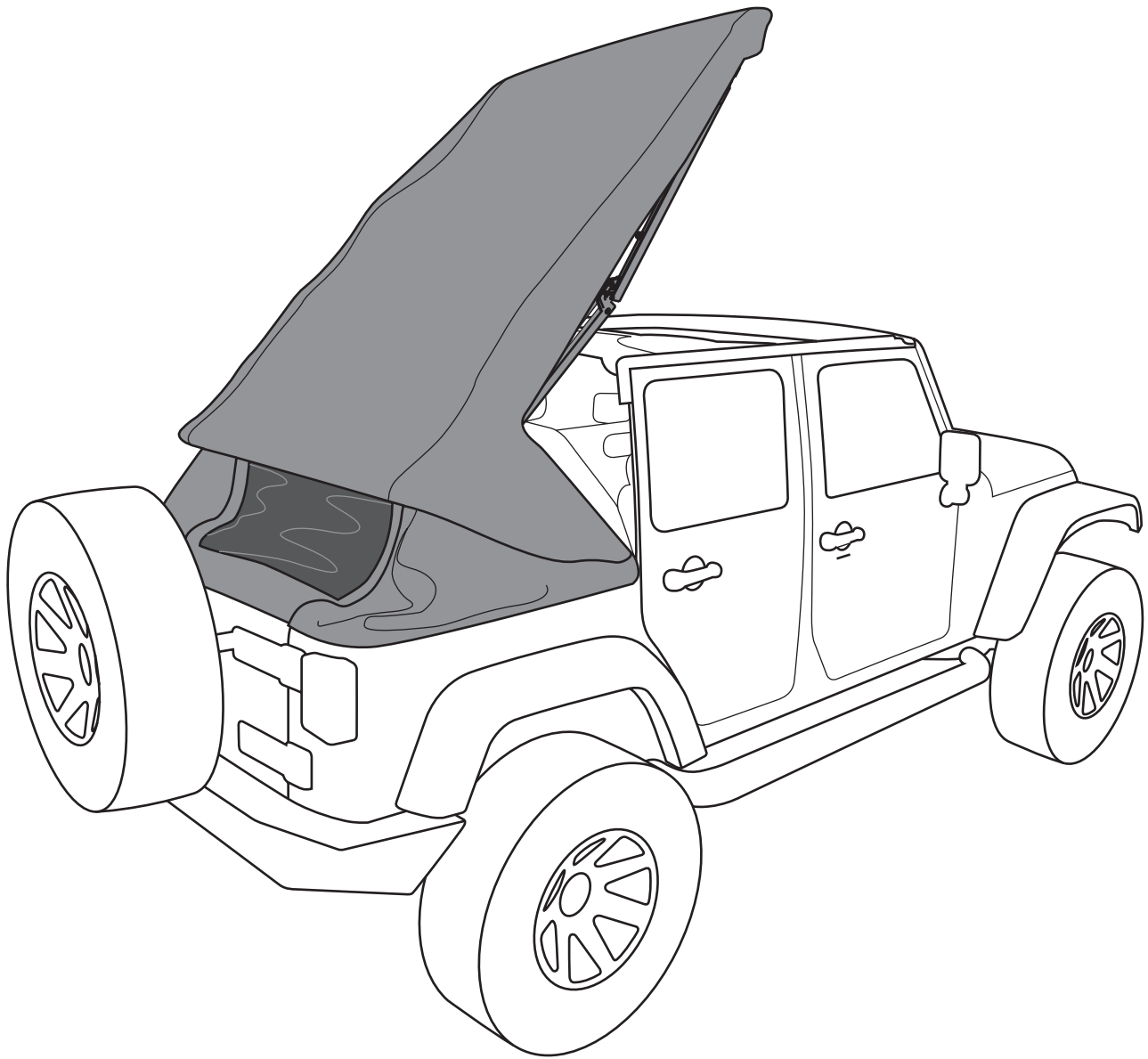


# ***POWER TOP***<sup>TM</sup>

PATENT  
PENDING

## **POWER TOP INSTALLATION MANUAL AND OPERATING GUIDE 07+ JEEP® 4 Door Wrangler**



### **NOTICE**

To assure optimum performance and durability of your Power Top, Rugged Ridge® strongly recommends installation and adjustment by a professional installer. For qualified installers in your area or other technical assistance Call: 1-800-449-6649 E-mail: [Techsupport@omix-ada.com](mailto:Techsupport@omix-ada.com)

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Rugged Ridge® is a registered trademark of OMIX-ADA, inc.  
Omix-ADA, Inc. 2012 all rights reserved.



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# ! Important Safety Information

Your Rugged Ridge® Power Top is intended to increase the utility and enjoyment of your vehicle. Before installation, please take a moment to review the following safety information and installation instructions. Important safety information is generally preceded by one of three signal words indicating the relative risk of injury. The signal words mean:

**! WARNING** a hazardous situation which, if not avoided, could result in death or serious injury. You CAN be Killed or Seriously Hurt if you don't follow instructions.

**! CAUTION** a hazardous situation which, if not avoided, could result in minor or moderate injury. You CAN be moderately HURT and also may suffer property damage if you don't follow instructions.

**NOTICE** careful attention is required to this instruction or operation but does generally not relate to personal injury. Damage to your product or other property may result if you don't follow instructions.

We hope you enjoy your Rugged Ridge® purchase and are here to help if you still have questions after reviewing this safety information and instructions. See Customer Service contacts included with your Limited Warranty.



Your Rugged Ridge® Power Top features hydraulic actuation controlled by a power switch near the Driver which is interlocked to allow operation only if brake pedal is depressed. To reduce risk of serious injury:

- Read and follow all instructions accompanying this product.
- Visually confirm area around folding sections of Power Top are clear from obstructions, all passengers are aware of tops path of travel and can keep themselves (fingers, feet, hair, etc.) completely clear of hinge points and mechanism. Remove or supervise any infants or children in rear seat during operation of Power Top.
- Do not attempt to operate Power Top when vehicle moving. Never drive with Power Top partially extended or retracted. Do not use without mechanism guards and Repair any damage to Power Top before further use.



## High Pressure Fluid Penetration Hazard

Pressurized hydraulic fluid may penetrate skin causing serious injury. Do not attempt repair of any leaks while system is under pressure. Consult product instructions for repair procedures and always use gloves, safety glasses and proper tools.



# ! Important Safety Information



## **Fire Hazard**

Confirm area free from gasoline and other flammable vapors.



## **Chemical Burn Hazard**

Avoid direct contact with any chemicals. Use gloves and eye protection.



## **Cutting/Sharp Edge Hazard**

Use precautions when cutting to avoid bodily harm. Use gloves and eye protection.



## **Cutting Hazard**

Avoid excessive pressure & heat on bit. Use gloves and eye protection.

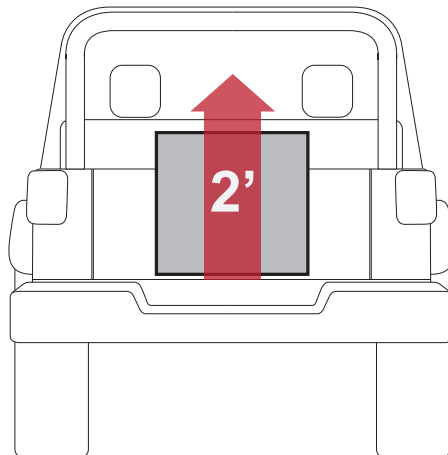
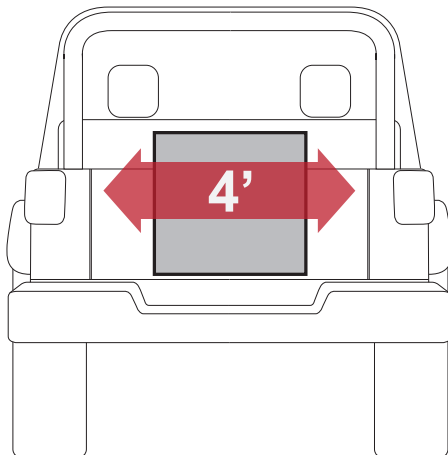


## **Shock Hazard**

Use precautions to avoid bodily harm. Avoid bridging terminals with metal tools. Use gloves and eye protection.

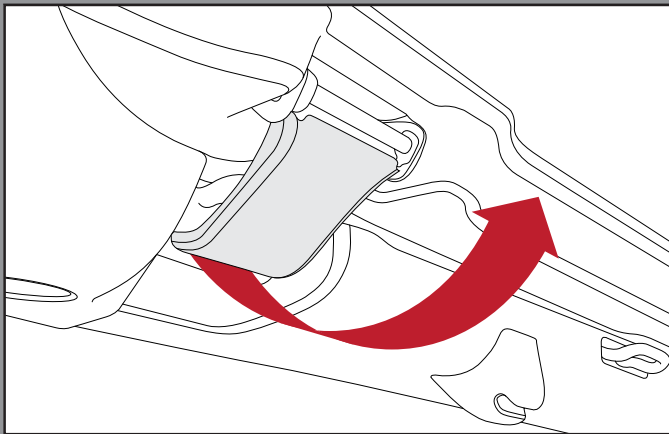
### **Proper loading in the cargo area after the Power Top has been installed.**

- **Do Not** load anything that exceeds more than 4' in width and 2' in height. Exceeding these measurements may cause damage to the Power Top.
- Be sure that any object stored in the cargo area is properly secured.

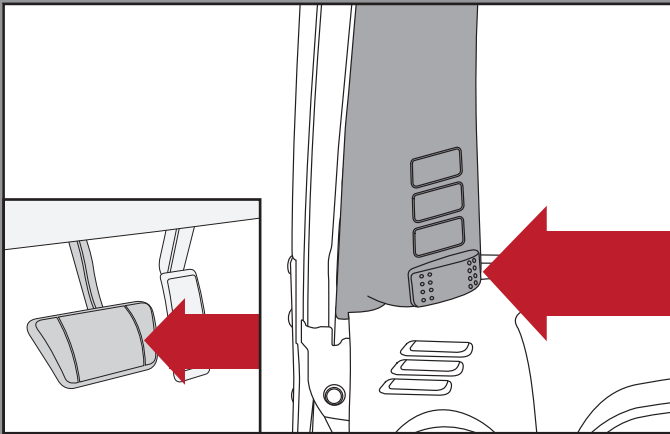


# Operating Procedure

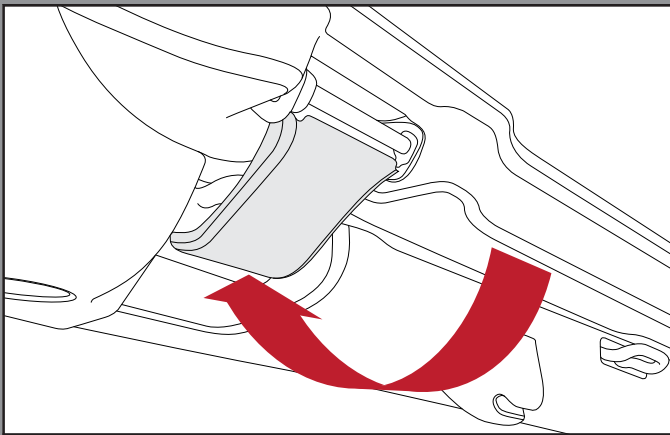
Read carefully before use of the Power Top



When opening the Power Top, release the two latches located on the header.



While in park, hold down your brake then press the **left side** of the switch to open the top. Press the **right side** of the switch to close the top.



When closing the Power Top, secure the two latches located on the header to the window frame strikers.

## OPERATIONAL CHECK LIST

Top can be raised or lowered with ignition ON or OFF. The ignition ON reduces strain on battery.

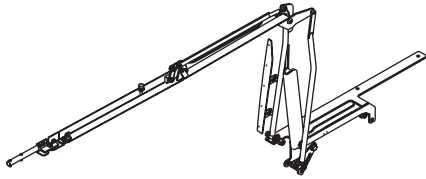
- ☐ Power Top fabric is inherently stiffer in cold weather. The Power Top should be operated when the outside temperature is 50°F or above. To prevent possible damage, do not lower top when outside temperature drops below 50° F. Latching and closing the top may be difficult when the temperature varies. Cycle the top a couple of times so the canvas can adjust. **If required, push the header into place then latch it.**
- ☐ Vehicle must not be in motion while Power Top is in operation.
- ☐ The Power Top is clear of any overhead obstructions or anything that will interfere with the raising and/or lowering of the canvas.
- ☐ The vehicle is in park before raising and lowering of the top. **Manual Transmission Owners** - Vehicles emergency brake is on and the transmission is in neutral.
- ☐ The vehicle is on level ground.
- ☐ The canvas rear window is NOT rolled up.
- ☐ Do not operate Power Top in severe weather e.g. high winds, lightning, etc.
- ☐ Do not operate Power Top while turn signals or hazard lights are in use.
- ☐ Loaded cargo area does not exceed 2'x4'. Reference page 3.



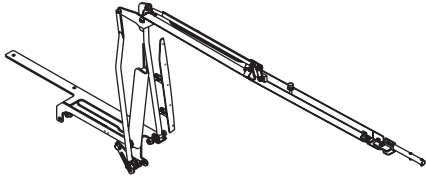
Your Rugged Ridge® Power Top features hydraulic actuation controlled by a power switch near the Driver which is interlocked to allow operation only if brake pedal is depressed. To reduce risk of serious injury:

- Visually confirm area around folding sections of Power Top are clear from obstructions, all passengers are aware of top's path of travel and can keep themselves (fingers, feet, hair, etc.) completely clear of hinge points and mechanism. Remove or supervise any infants or children in rear seat during operation of Power Top.
- Do not attempt to operate Power Top when vehicle moving. Never drive with Power Top partially extended or retracted. Do not use without mechanism guards and Repair any damage to Power Top before further use.
- Rugged Ridge® recommends that your top should be up/closed while off-roading to prevent any damage to your Power Top.

# COMPONENTS LIST



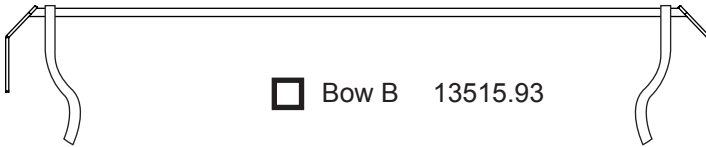
☐ Side Arm Assemblies (R) 13515.91



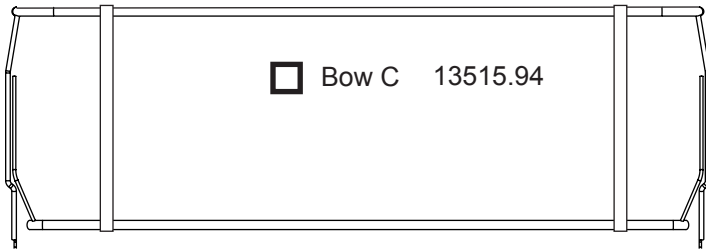
☐ Side Arm Assemblies(L) 13515.90



☐ Bow A 13515.92



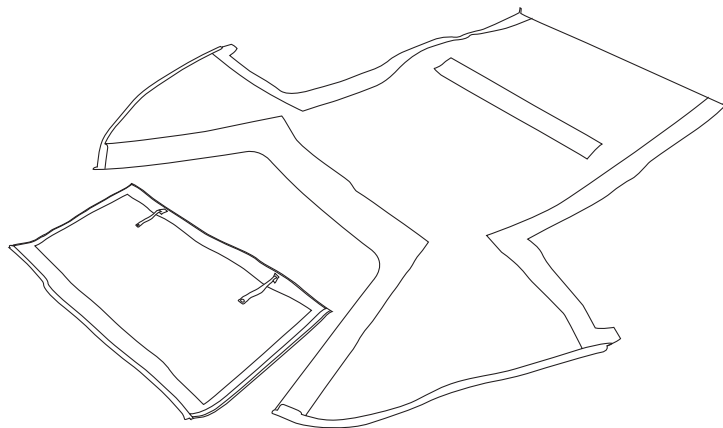
☐ Bow B 13515.93



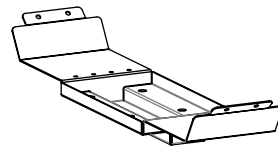
☐ Bow C 13515.94

☐ Bow D 13515.95

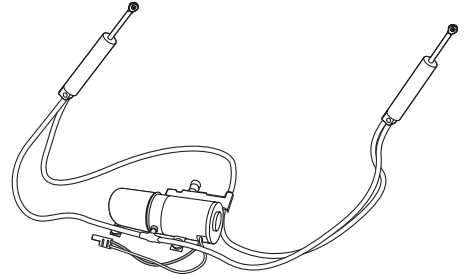
Note: Both Bow C & Bow D are pre-attached together with two elastic straps.



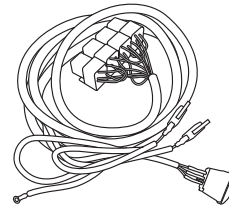
☐ Canvas and Rear Window (comes packaged with 4 elastic straps and 2 plastic abrasion guards, 2 long Velcro® strips, 10 short Velcro® strips). 13515.52



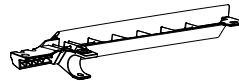
☐ Hydraulic Tray 13515.96



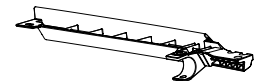
☐ Hydraulic Motor w/ Attached Arms 13515.70



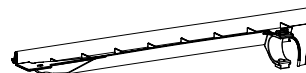
☐ Electrical Harness 13515.80



☐ Right Front Surrounds 13515.62



☐ Left Front Surrounds 13515.61



☐ Right Rear Surrounds 13515.64



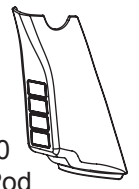
☐ Left Rear Surrounds 13515.63



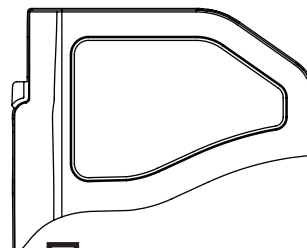
☐ (2) Door Bracket 13515.97



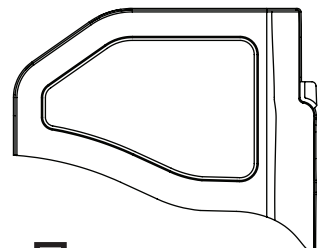
☐ 2011+  
A-Pillar Pod  
17235.58



☐ 2007-10  
A-Pillar Pod  
17235.86



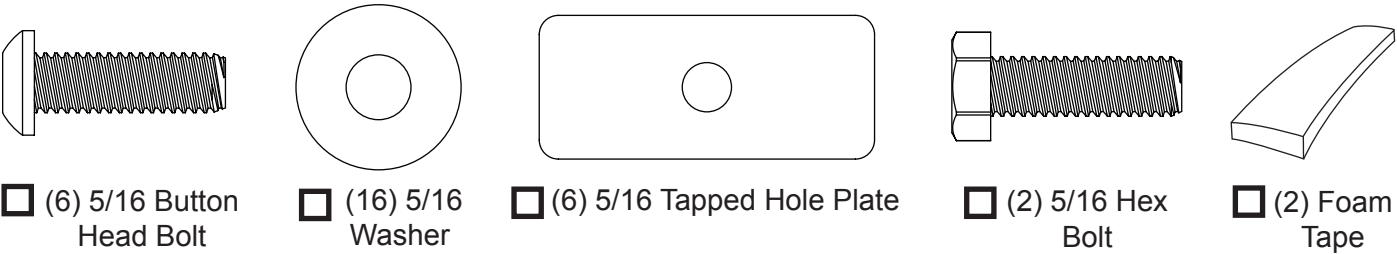
☐ Right Rear Guard 13515.65



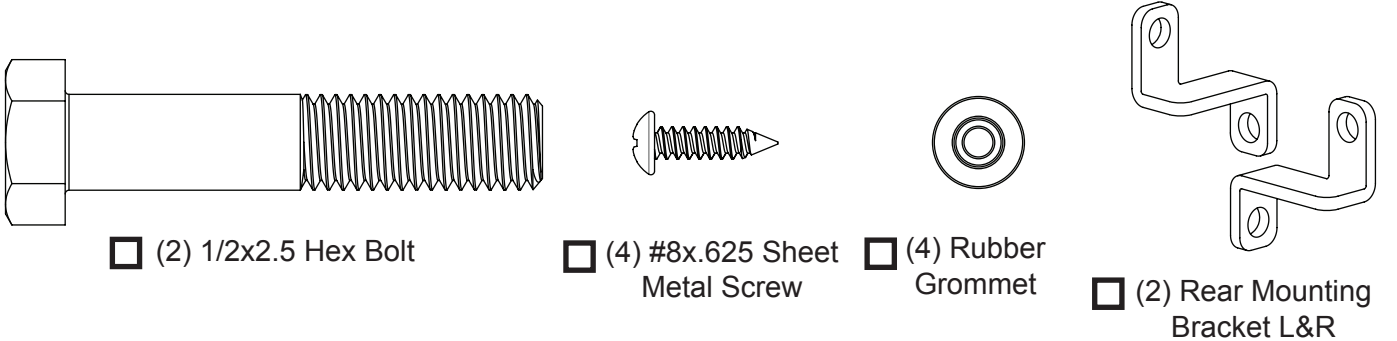
☐ Left Rear Guard 13515.65

The hardware is organized into 7 kits. The appropriate kit needed will be highlighted at the beginning of each section in the Power Top instructions.

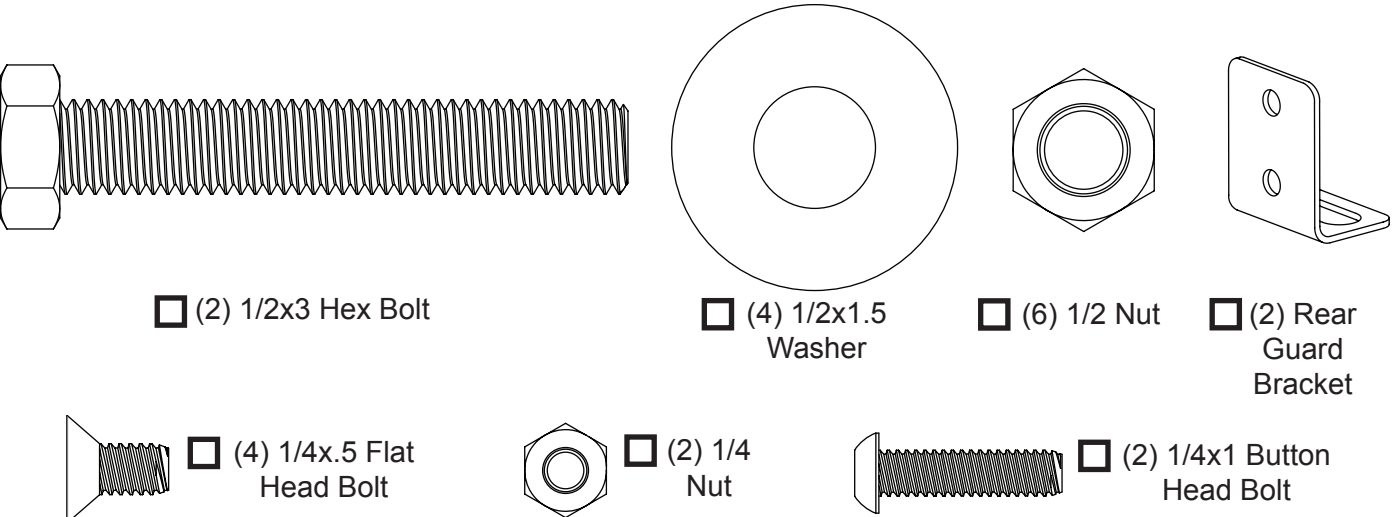
### HARDWARE KIT #1



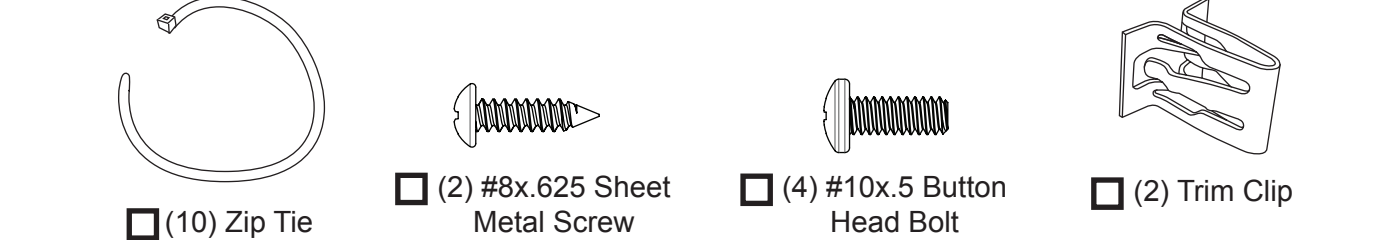
### HARDWARE KIT #2



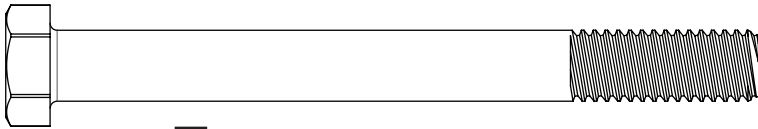
### HARDWARE KIT #3



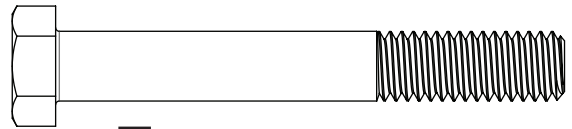
### HARDWARE KIT #4



## HARDWARE KIT #5



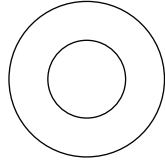
☐ (2) 3/8x3.75 Hex Bolt



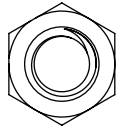
☐ (2) 3/8x2.75 Hex Bolt



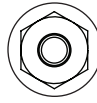
☐ (4) #8x.625 Sheet Metal Screw



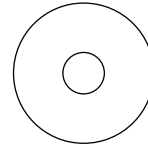
☐ (8) 3/8 Washer



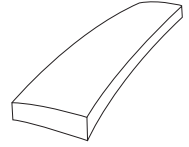
☐ (4) 3/8 Nut



☐ (4) #10 Flange Nut



☐ (4) #10 Washer

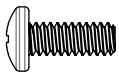


☐ (2) Foam Tape

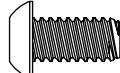


☐ (4) #10x1 Button Head Bolt

## HARDWARE KIT #6



☐ (2) #10x.5 Button Head Bolt



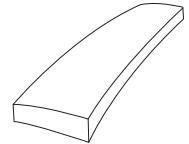
☐ (2) 1/4x.5 Button Head Bolt



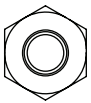
☐ (20) #8x.625 Sheet Metal Screw



☐ (10) #6 Flat Head Screw



☐ (2) Foam Tape



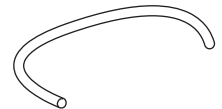
☐ (2) 1/4 Nut



☐ (2) #10 Flange Nut



☐ (2) Canvas Mount Plate



☐ (2) Foam Seal

## HARDWARE KIT #7



☐ (4) #4 Lock Nut



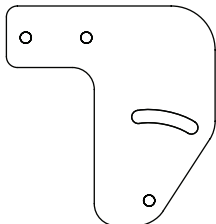
☐ (4) #4 x.625 Button Head Screw



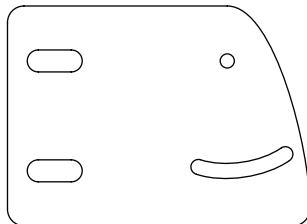
☐ (2) #4x.325 Button Head Screw



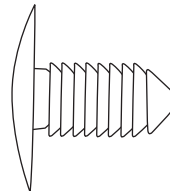
☐ (4) #8x.625 Sheet Metal Screw



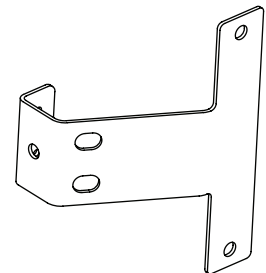
☐ (1) Front Limit Switch Bracket



☐ (1) Rear Limit Switch Bracket



☐ (8) Tree Fastener



☐ (2) Front Guard Bracket

## SECTION - A - Preparing for Installation - Removal of Factory Soft/Hard Top

**Section Description-** This section will show you how to remove the factory soft/hard top in preparation for installing the Power Top.

### Tool Needed -

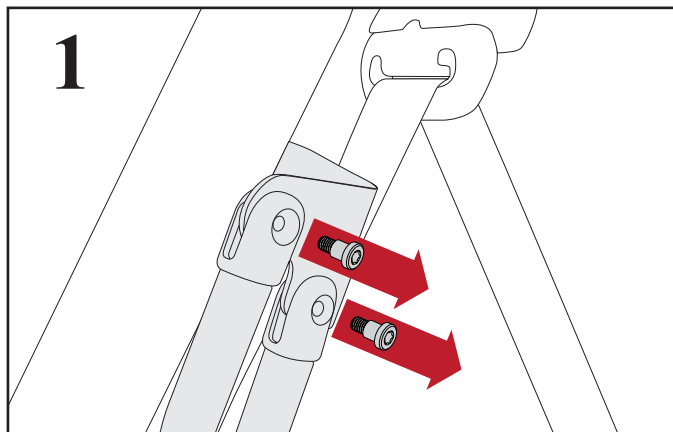
Phillips head screw driver

Torx bit socket wrench (T30)

**Hardware Kit** - No hardware needed

**NOTICE** Carefully read and understand all instructions before proceeding.

**NOTICE** We recommend that you save all parts and hardware if you ever choose to re-install the factory top.



**Soft top owners** - Refer to owners manual for instructions on lowering factory top. Once open, unscrew the shoulder bolts fastening it to the vehicles roll bars. Remove the canvas from assembly.

**Hard top owners** - Refer to owners manual for instructions on removing factory hard top. Skip to STEP 3 once hard top is removed.

**NOTICE** Hardtop owners will need to purchase a factory header, tailgate bar and tailgate bar retainers L&R.

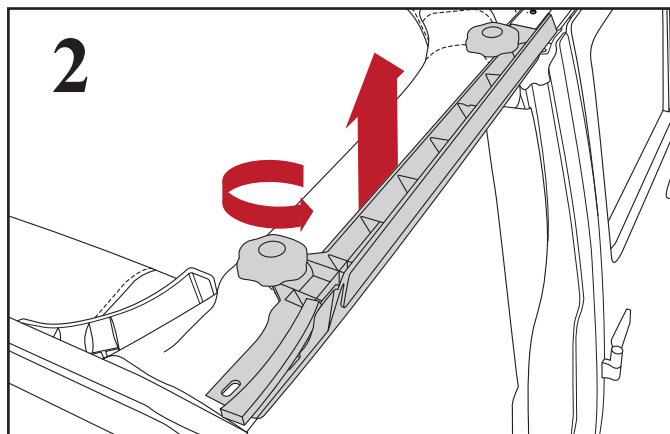
### These factory parts are required.

Header - 68003646AA

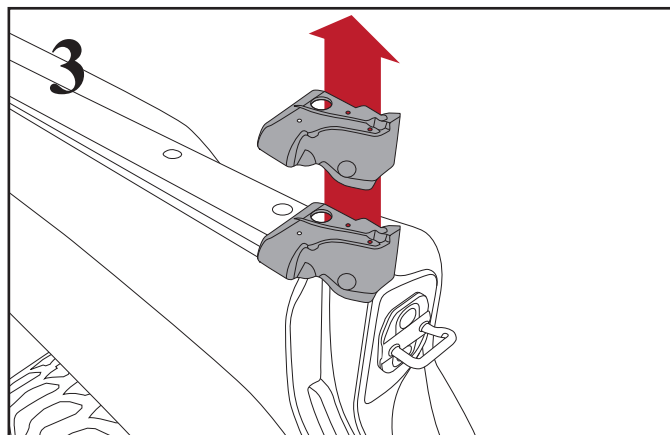
Tailgate Bar - 55395757AC

Tailgate Bar Retainer Right- 55395760AB

Tailgate Bar Retainer Left- 55395761AB

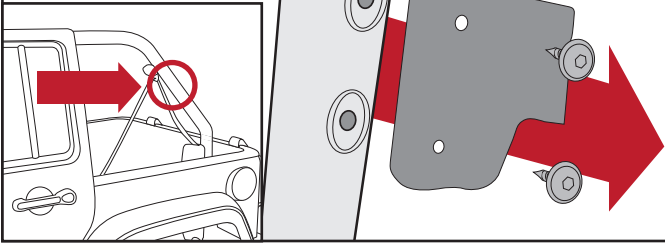


Remove the front and rear door surrounds from each side of the vehicle.



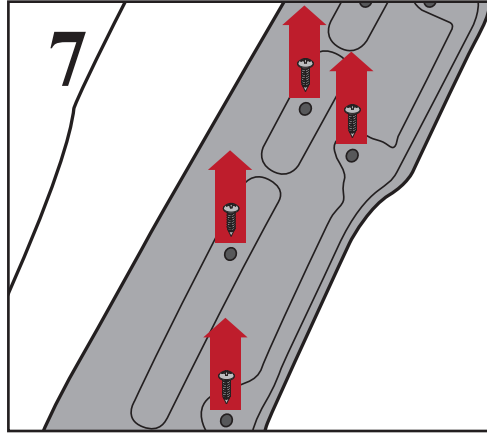
Remove the rubber seal from the body tub above the rear door striker bar. **Hard top owners only** - Remove nut plates used to secure the hard top, then skip to SECTION B.

4



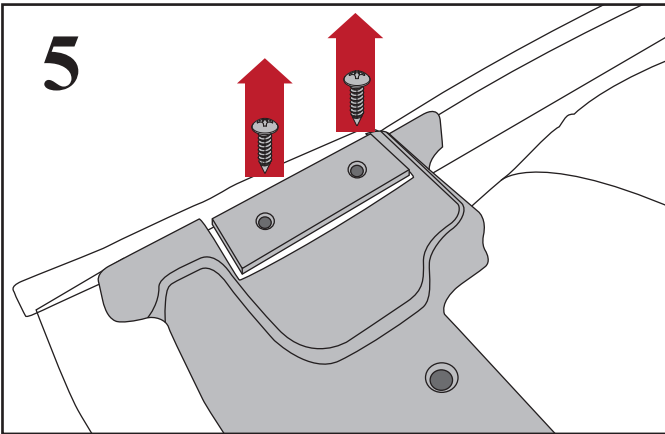
Remove the metal soft top mounting brackets attached to the roll bar in the cargo area.

7



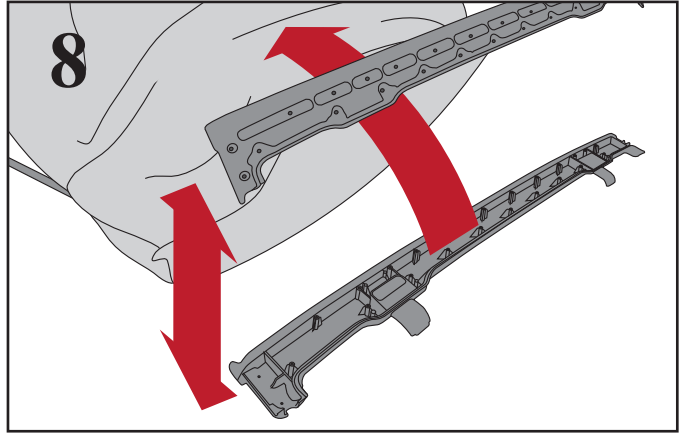
Remove all screws from the top side of the header.  
**Save these screws to be used later in installation.**

5



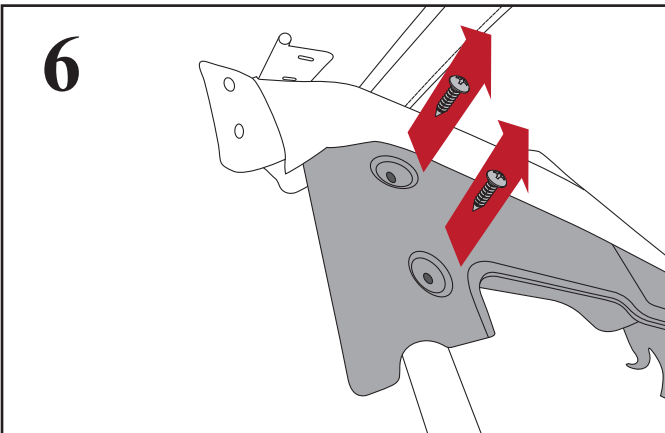
Remove the screws from the underside of the header at each end that attaches the fabric tabs.

8



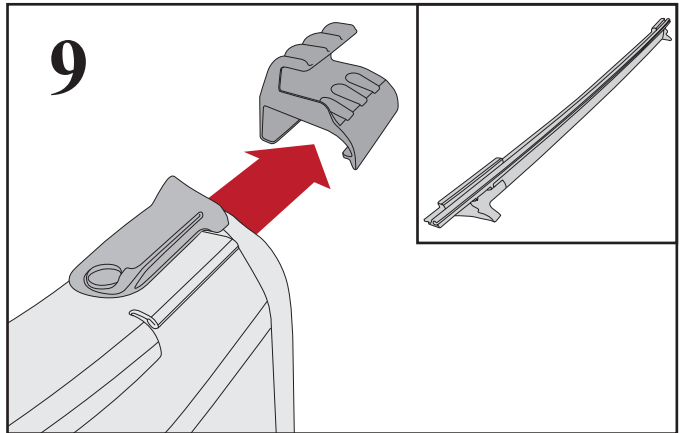
Separate the header to release the factory canvas.  
**Save factory header to be used later in installation.**

6



Remove the screws from the top of the header at each end to detach from the factory soft top frame.

9



Remove the tailgate bar and pull off plastic tailgate bar holder. **Save these parts to be re-installed later in installation.**



## SECTION - B - Attaching Side Arm Assemblies

**Section Description-** This section will illustrate how to attach the side arm assemblies to the vehicle.

### Tool Needed -

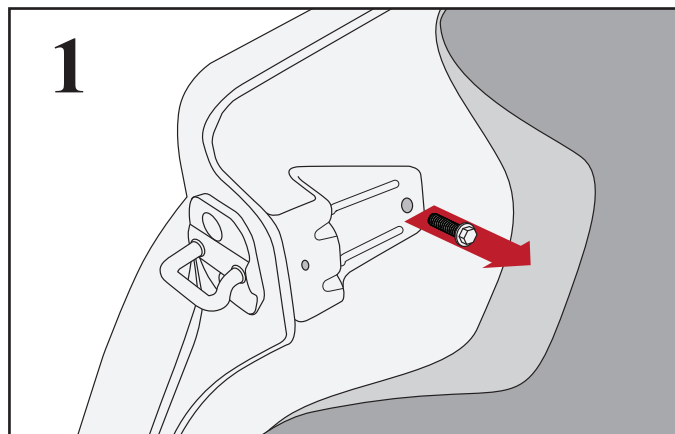
Utility knife

Wrench (1/2")

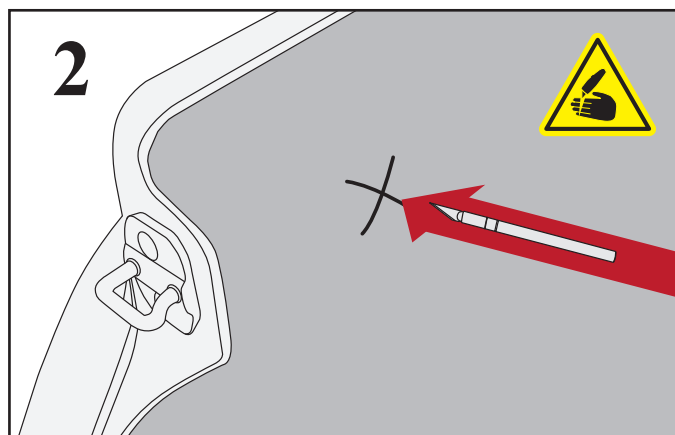
Allen Wrench (3/16")

### Hardware Kit - #1

**NOTICE** Carefully read and understand all instructions before proceeding.



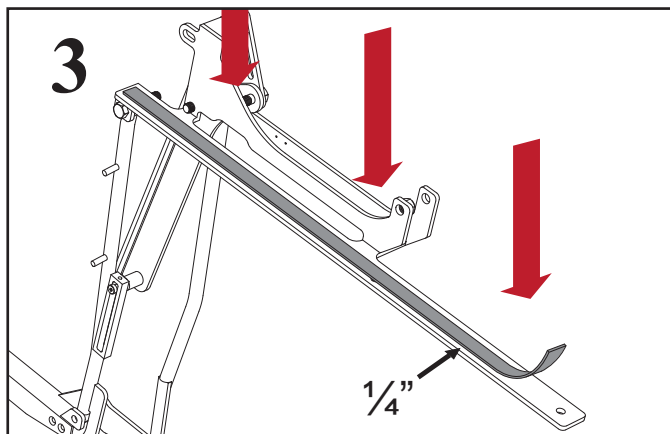
Lower the rear seat. Pull back carpet and remove the bolt from the door striker bracket found near the rear doors. Re-position the carpet.



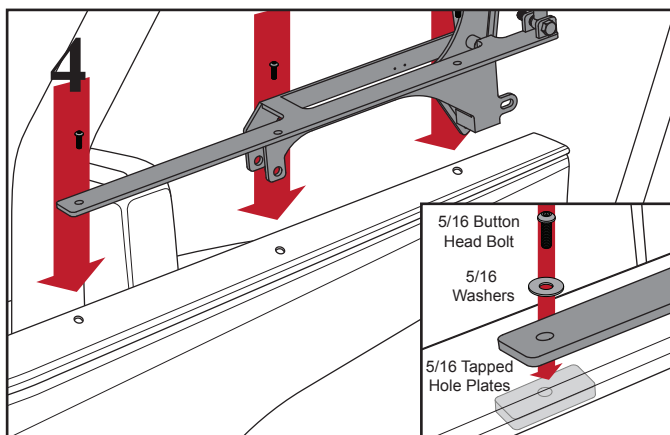
Cut a 1" diameter circle in the carpet over the hole where the bolt removed was located.



Cutting/Sharp Edge Hazard: Cut carefully using gloves and eye protection.



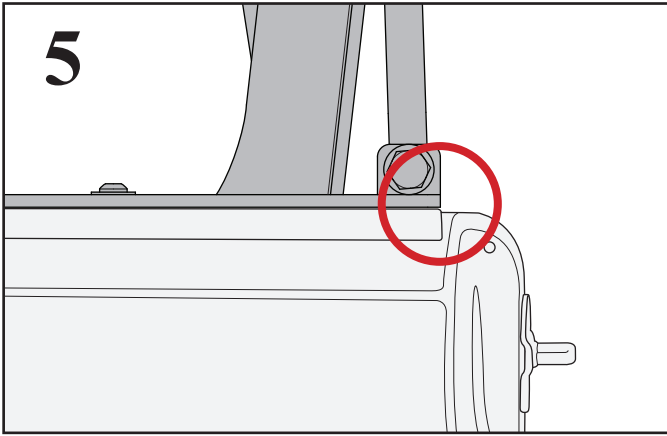
Attach foam tape to the underside of the side arm assembly. Leave a 1/4" space between the edge of the tape and outside edge of the side arm assembly. Cut out holes in the foam tape to reveal covered mounting holes.



Loosely fasten the side arm assembly to the vehicle. The tapped hole plates go on the bottom side of the tub rail.

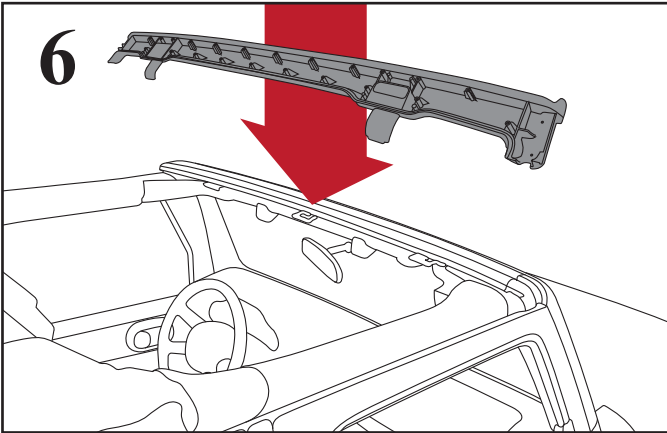


5



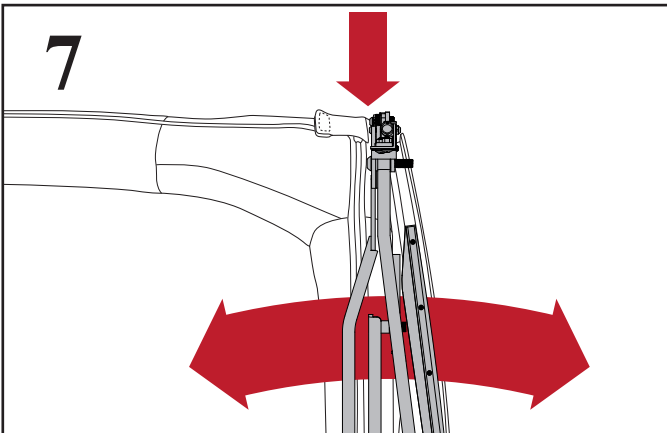
Align the side arm assembly with the edge of the belt rail.

6



Attach the bottom half of the factory header to the vehicle. Secure the headers latches to the vehicle.

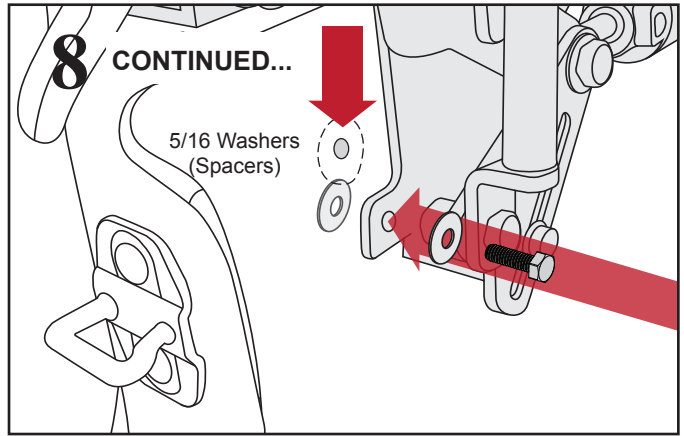
7



The next step will be to create an equal space between the side arm assemblies and the top of the roll bar on both sides of the vehicle and to ensure adequate clearance of the roll bar.

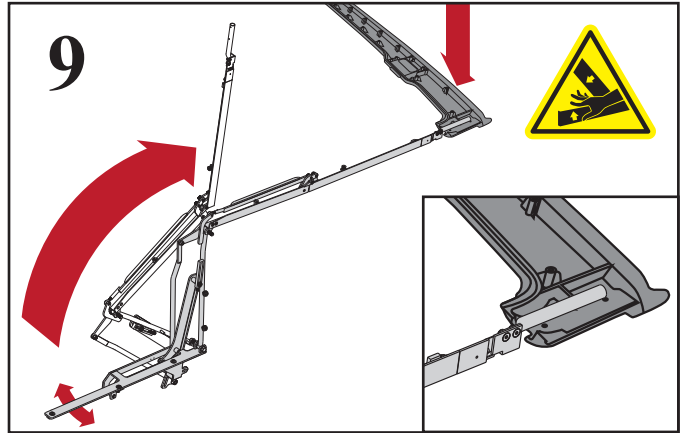
8

CONTINUED...



Adjust the tilt of the side arm assembly to clear the vehicles roll bar by adding spacers. Note: 8 spacers (5/16 washers) have been provided in the hardware kit for adjustment. After the tilt of the side arm assemblies have been aligned, tighten the bottom mounts.

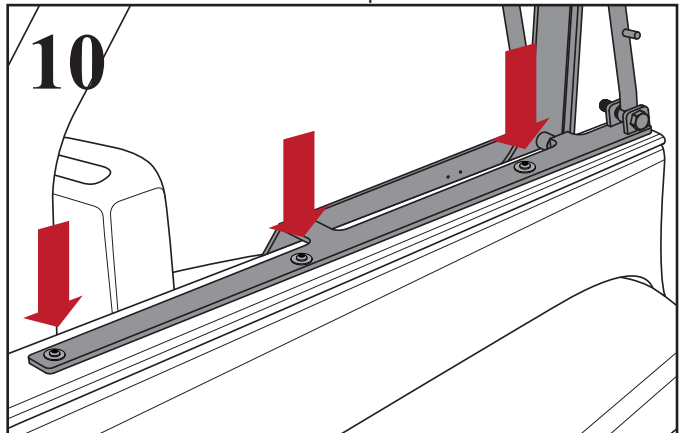
9



Manually push/pull the side arm assembly up to extend. Aim the assembly by rotating the rear most mounting point. The front tube should fall into or above the u-shaped cutout in the header.

**WARNING** Entanglement & Pinch Hazard. Keep Power Top free from obstructions.

10



Once adjustments have been made, tighten the side assemblies to the tub rail.

## SECTION - C - Attaching Hydraulics

**Section Description-** This section will illustrate how to install the hydraulic motor and how to connect the hydraulic pistons to the side arm assemblies.

### Tool Needed -

Utility Knife

Socket wrench (3/4")

Wrench (3/4")

Drill (9/64")

Pliers

Pen/pencil

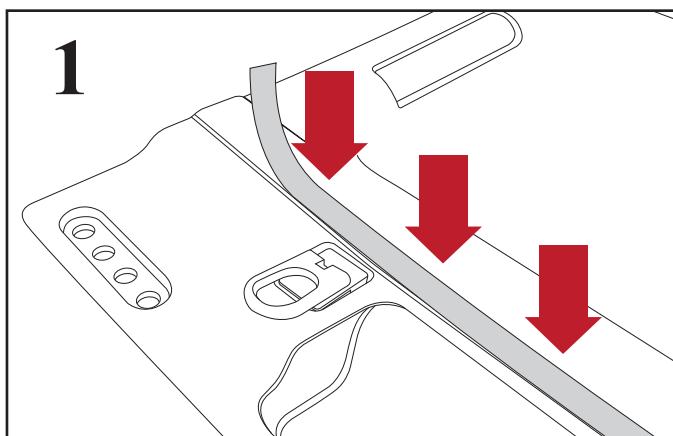
Phillips head screwdriver

Cutting Device (e.g. hack saw, jig saw, dremel®, etc.)

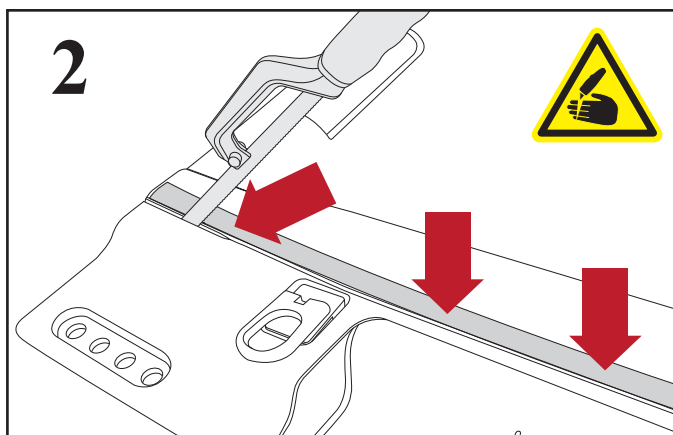
Masking tape

### Hardware Kit - #2

**NOTICE** Carefully read and understand all instructions before proceeding.



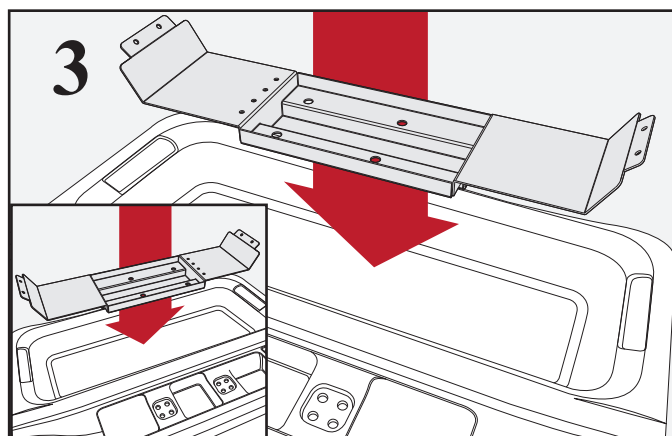
**2012+ Jeep® Owners Only. 2007-2011 Jeep® Owners Skip to Step 3.** Attach a strip of tape across the indicated contour on the plastic cargo liner located in the rear of the vehicle.



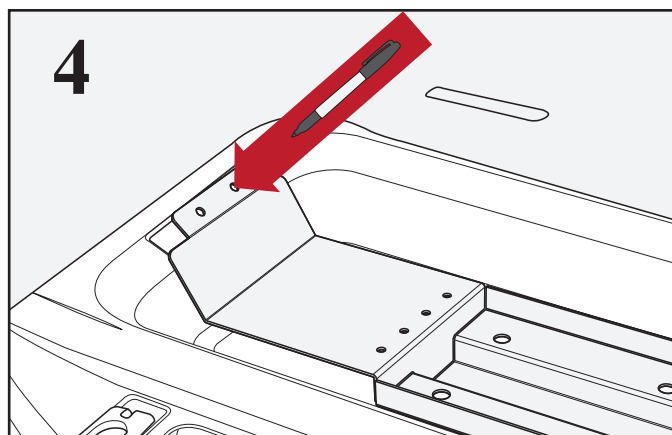
Using a cutting device (e.g. hack saw, jig saw, dremel®, etc.), cut the plastic cargo liner using the tape as a guide. This will allow access to the vehicle jack while the hydraulic tray is attached (to be attached later). Sand and smoth the cut area to create a more finished look.



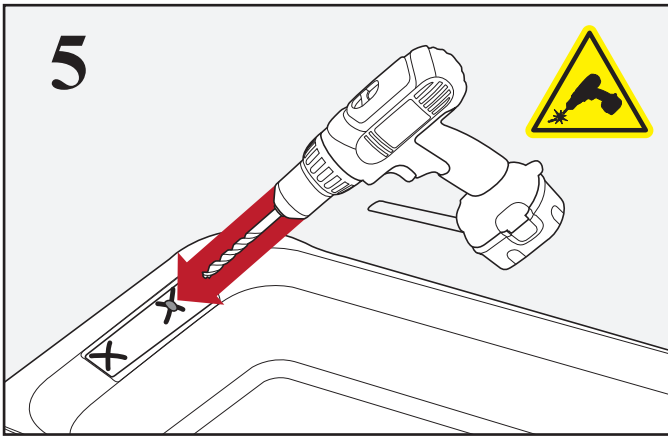
Cutting/Sharp Edge Hazard: Cut carefully using eye protection.



Place your hydraulic tray in the cargo recess located underneath the access panel in the cargo area. Note: Right hand drive vehicle owners, refer to the small image above for the correct orientation of the hydraulic tray.

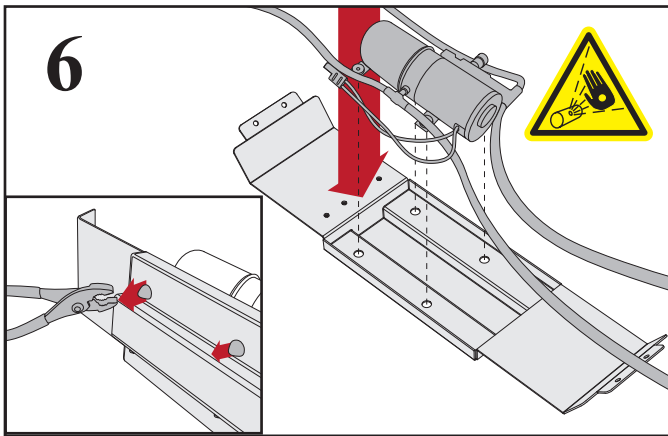


Use hydraulic tray as a guide to mark holes for drilling. Note: This image depicts the cargo recess of a 2011+ Jeep®. 2007-2010 Jeeps® will require removing carpet in this area before marking and drilling.



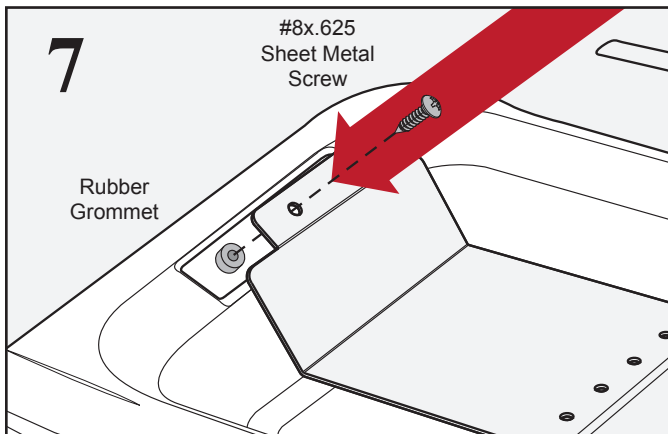
With a 9/64 drill bit, drill into guides previously marked.

**CAUTION** Cutting Hazard: Avoid excessive pressure & heat on bit. Use gloves and eye protection.

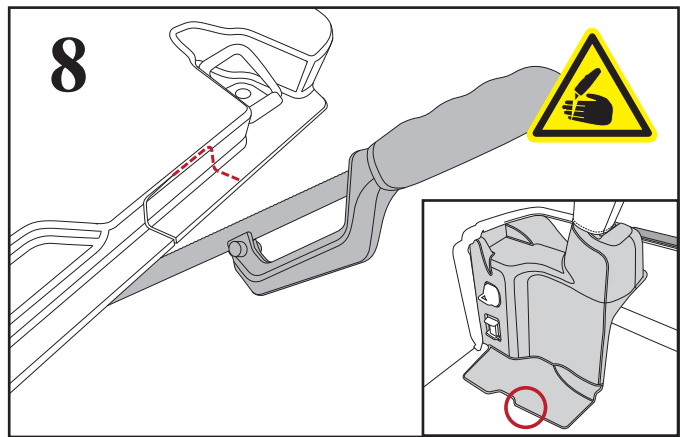


Place your hydraulic motor onto the hydraulic tray. Pull the attached rubber grommets on the hydraulic motor through the tray with pliers.

**WARNING** High Pressure Fluid Penetration Hazard pressurized hydraulic fluid may penetrate skin causing serious injury. Wear gloves and eye protection.

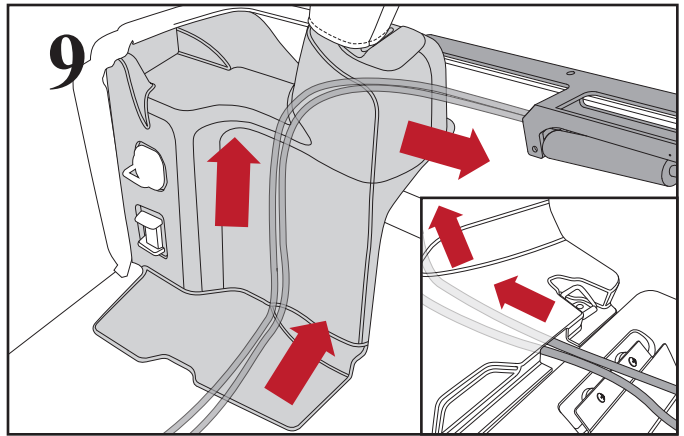


Secure the hydraulic tray to the cargo recess. If carpet was removed, replace before securing tray. **2007-2010 Jeep® Owners skip to Step 10.**

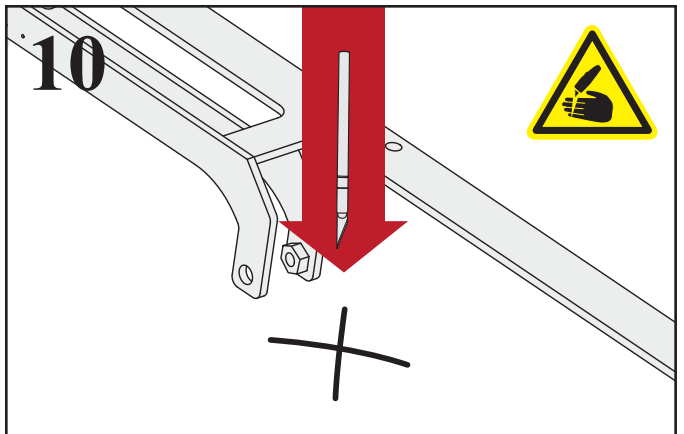


**2011+ Jeep® Owners Only.** Using a cutting device (e.g. hack saw, jig saw, dremel®, etc.), cut the indicated section out of the rear wheel well cover. The cut should measure 1" height by 2" width. Sand and smooth to create a more finished look.

**CAUTION** Cutting/Sharp Edge Hazard: Cut carefully using eye protection.

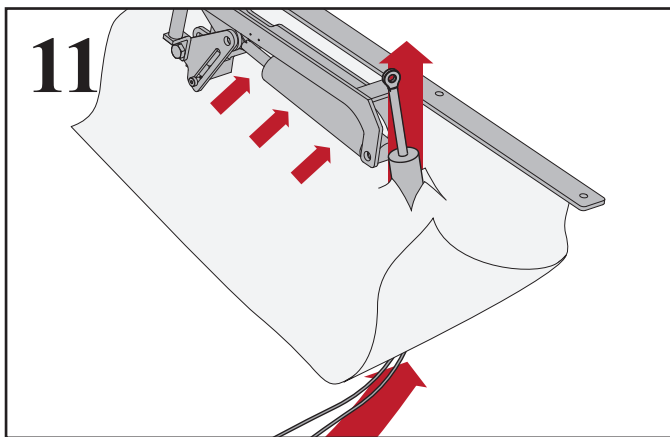


**2011+ Jeep® Owners Only.** Route the hoses of the hydraulic arms through the section you cut out in the previous step. Position the hoses underneath the plastic wheel well cover and behind the roll bar.

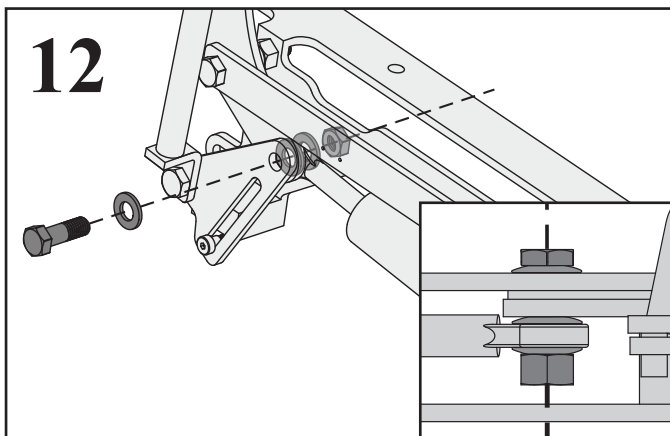


Cut an X in the carpet behind the rear mounting point for the hydraulic piston as shown above. **Before marking/cutting, make sure carpet can be installed back to it's factory setting/position.**

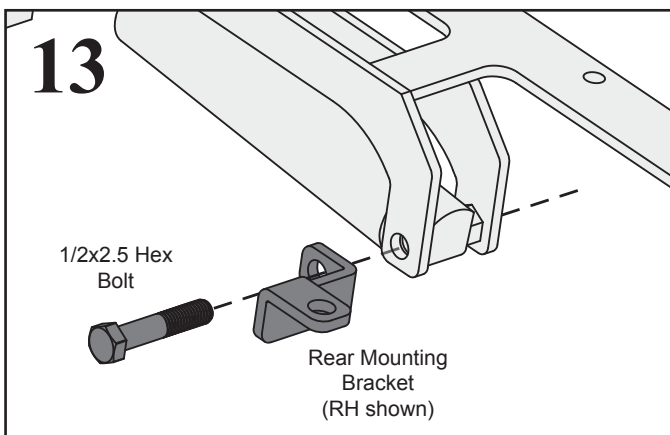
**CAUTION** Cutting/Sharp Edge Hazard: Cut carefully using gloves and eye protection.



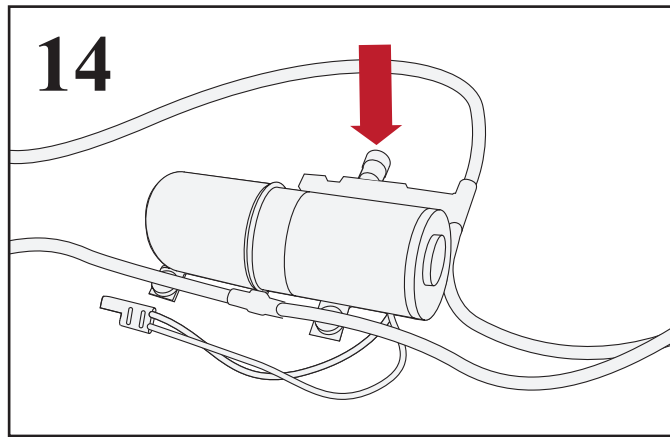
Guide the hydraulic piston underneath carpet and pull it through the previously cut **X**. Position the piston in the side arm assembly as designated by the 3 small arrows in the image.



Attach the hydraulic piston to the side assembly as shown. **This hardware is already attached and will need to be removed and re-installed. Keep attachment tight but loose enough to allow movement of hydraulic piston.**



With the Power Top in an up and closed position, secure hydraulic piston by attaching the rear mounting bracket. Note: manually pull and/or compress to align the hydraulic piston and the side arm assembly.



Locate the adjustment knob on the hydraulic motor. This knob controls the rate of speed for opening and closing the Power Top. **Adjust this knob for smooth and safe operation.**

## SECTION - D - Attaching Rear Mounting Bracket and Bows A & B

**Section Description-** This section will illustrate how to mount and secure the side arm assemblies to the vehicle and attach bows A & B.

### Tool Needed -

Utility knife

Socket wrench (3/4")

Wrench (3/4")

Pen/pencil

Tree fastener remover

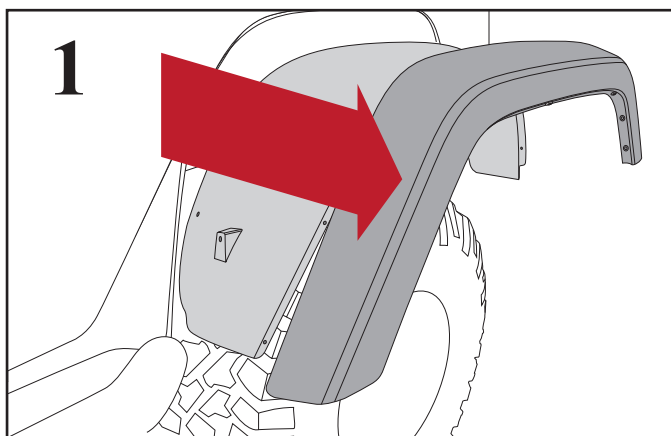
Drill (1/2", 1/4")

Allen wrench (3/32", 5/32")

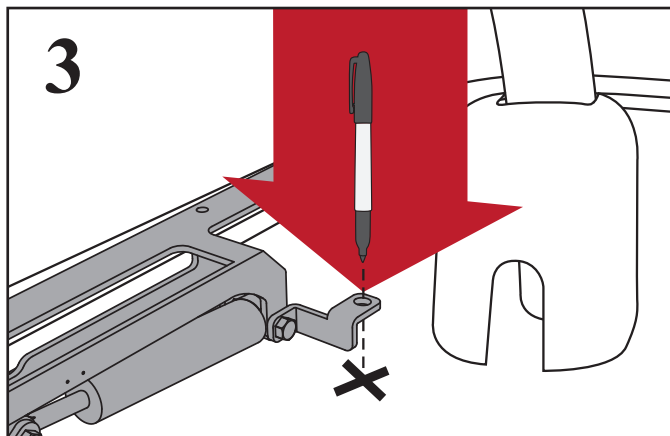
Permanent thread lock

### Hardware Kit - #3

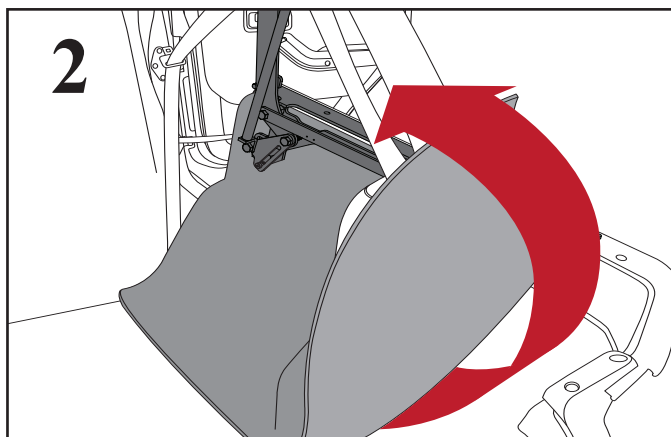
**NOTICE** Carefully read and understand all instructions before proceeding.



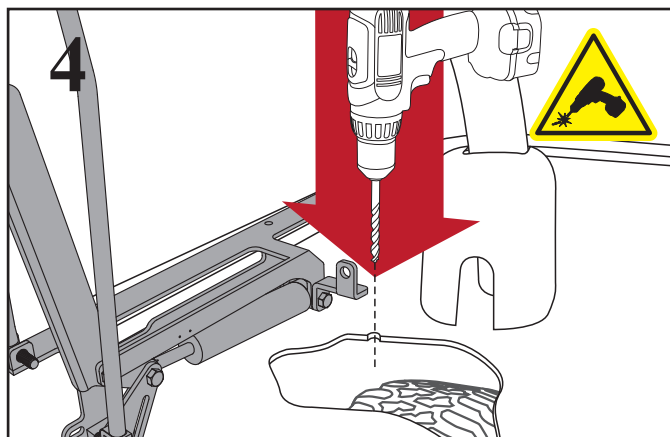
Remove rear fender flares and splash guards.



With carpet pulled back, use rear mounting bracket as a guide to mark the wheel well for drilling.



Pull side carpet back past the rear mounting bracket installed in section C.

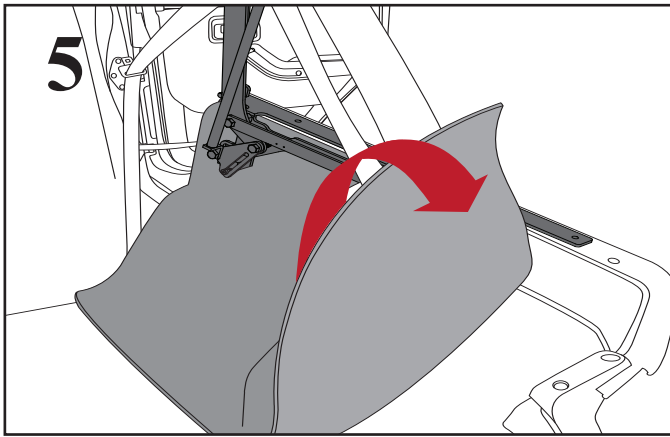


Rotate rear mounting bracket forward and drill a pilot hole with a 1/4 drill bit using the guide marks previously made. Use a 1/2 drill bit to drill through the wheel well. **Note: Careful to not puncture the tire.**

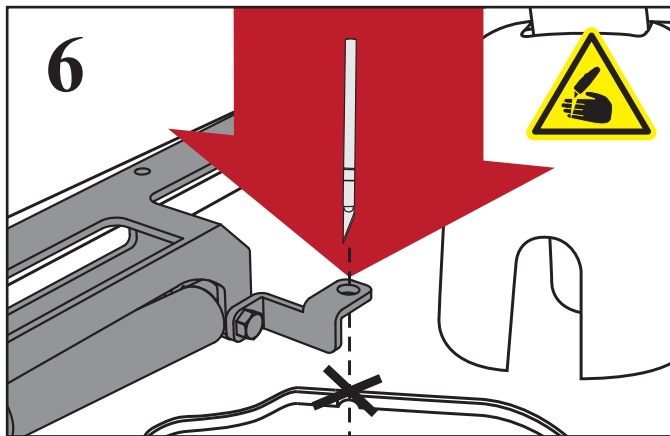


Cutting Hazard: Avoid excessive pressure & heat on bit. Use gloves and eye protection.



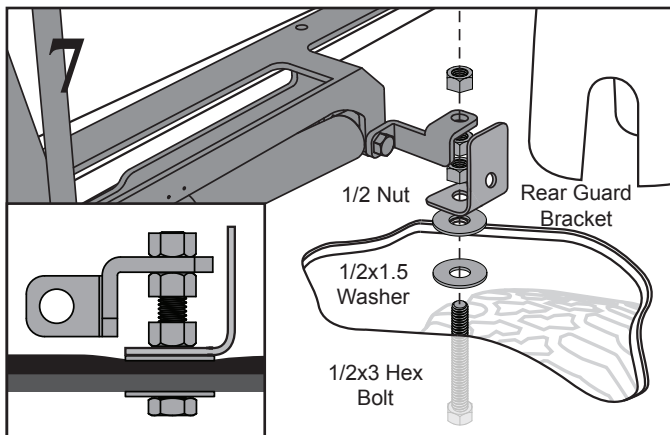


Re-install your carpet.

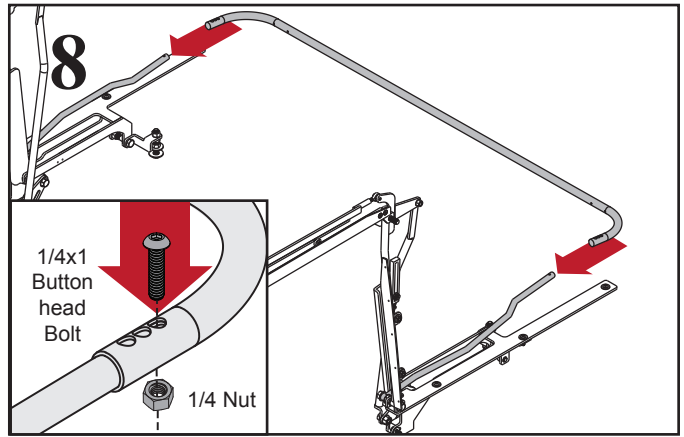


Using the rear mounting bracket as a guide, cut an X in the carpet above the drilled hole.

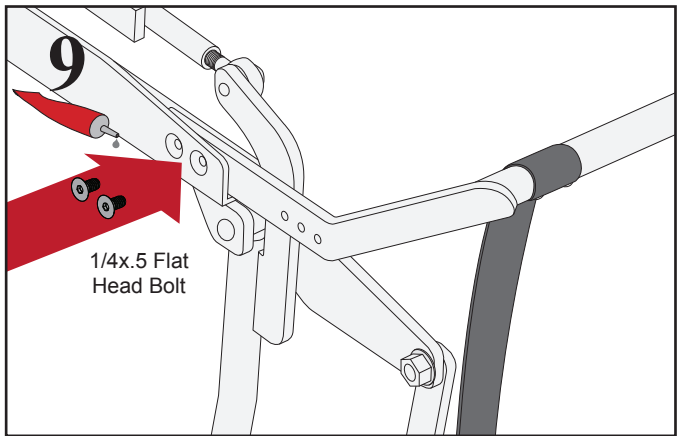
**CAUTION** Cutting/Sharp Edge Hazard: Cut carefully using gloves and eye protection.



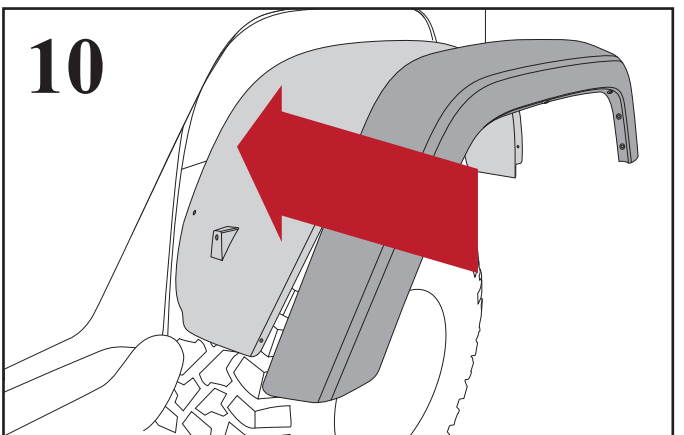
Secure side arm assembly and rear guard bracket to the vehicles body tub. Be sure bolts, nuts and washers are correctly assembled.



Attach Bow A to the arms on the side arm assemblies. **Attach arms at lowest adjustment point as shown in the image.** This may require future adjustment to higher settings to maintain proper tensioning of the top.



Attach Bow B to the top corner of the side assemblies. Use thread lock to secure bolts. Follow manufacturers instruction for application of thread lock.



Re-install the rear fender flares and splash guards.

## SECTION - E - Electrical

**Section Description-** This section will illustrate how to install the electrical harness for the Power Top.

**Tool Needed -**

Socket wrench (7/16", 3/8", 1/2")

Wrench (3/4", 1/2", 10mm)

Phillips head screwdriver

Drill (9/64") for vehicles 2011+

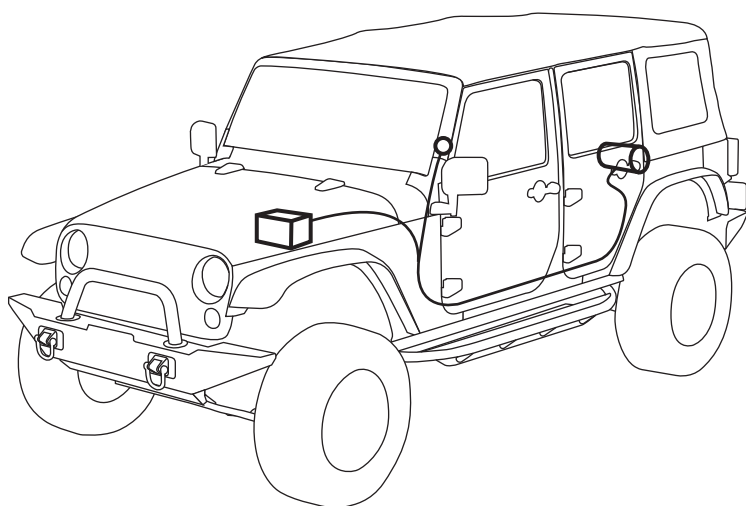
Utility knife

Tree Fastener Remover

**Hardware Kit - #4**

**NOTICE** Carefully read and understand all instructions before proceeding.

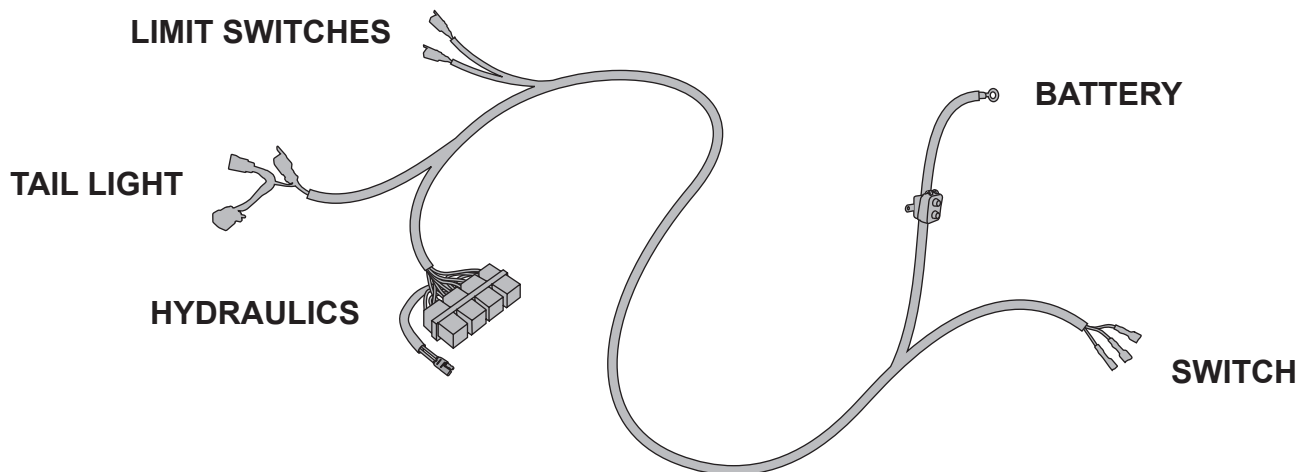
**NOTICE** For right hand vehicles, the wires will need to be installed throughout the right side of the vehicle.



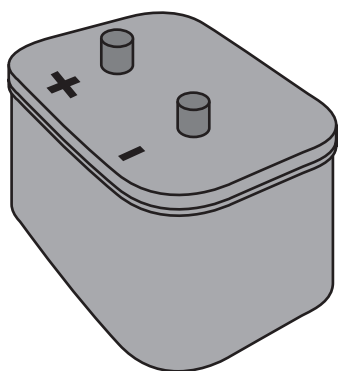
 **BATTERY**

 **SWITCH**

 **HYDRAULICS**



1

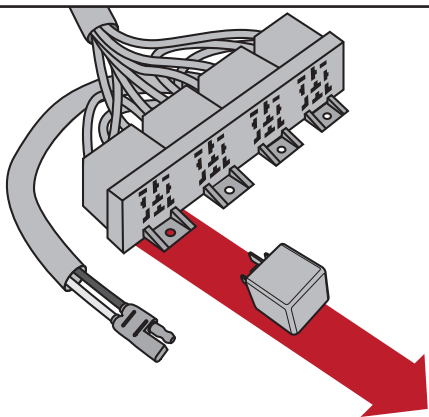


Disconnect vehicle battery by carefully removing negative then positive cables.

**! WARNING**

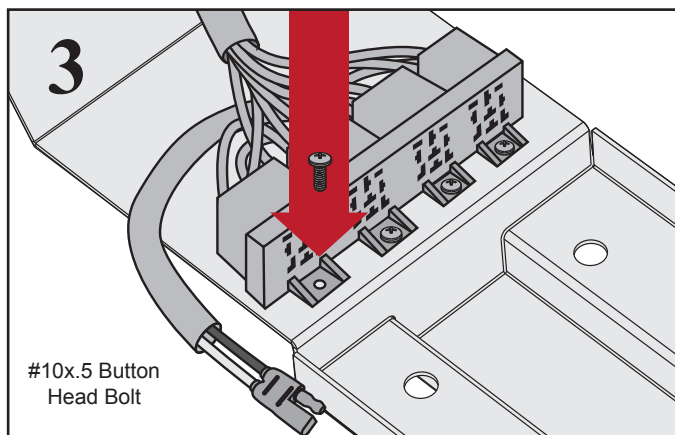
Shock/Fire/Chemical Hazard: Confirm area free from gasoline and other flammable vapors. Avoid bridging terminals with metal tools. Wear gloves and eye protection.

2



Disconnect the relays from the relay sockets.

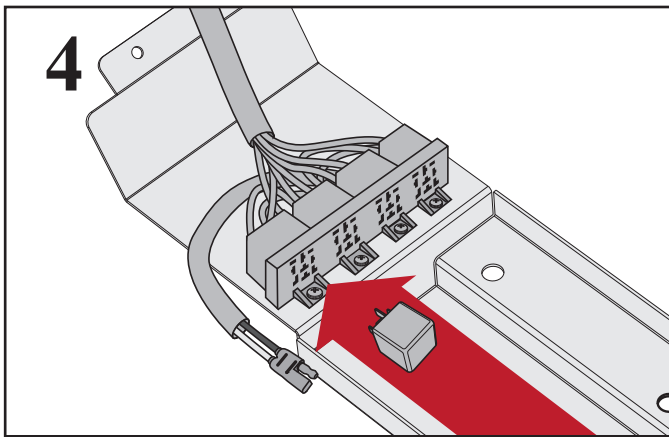
3



#10x.5 Button  
Head Bolt

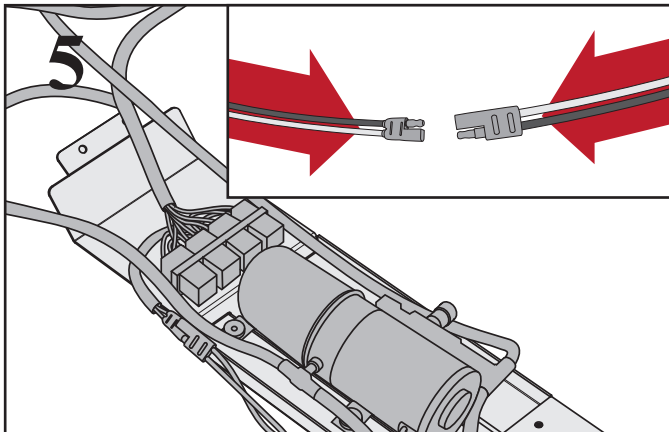
Fasten the relay sockets to the hydraulic tray.

4



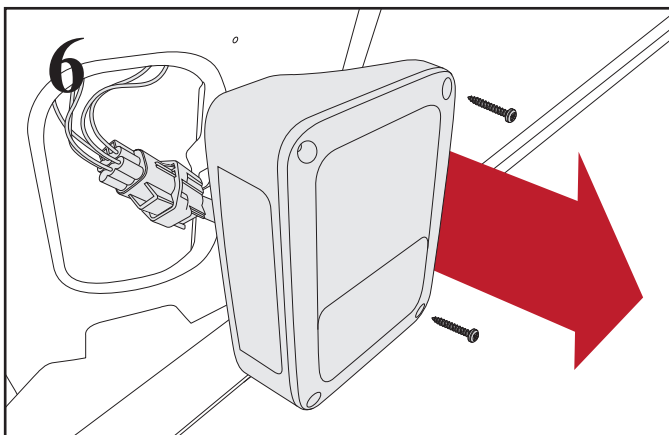
Re-connect the relays into the relay sockets.

5



Connect the power cord coming from the relay sockets to the plug connected to the hydraulic motor.

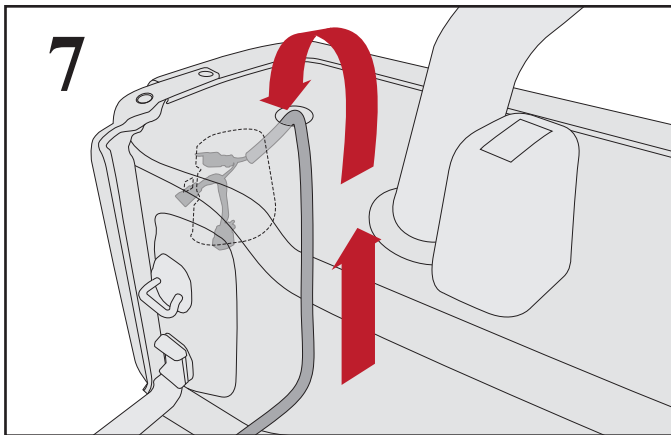
6



Remove the driver side tail light for access to the tail light wiring harness which will be used in connecting the power top brake light interrupt switch. **2011+ Jeep Owners** - Skip to Step 8.



7

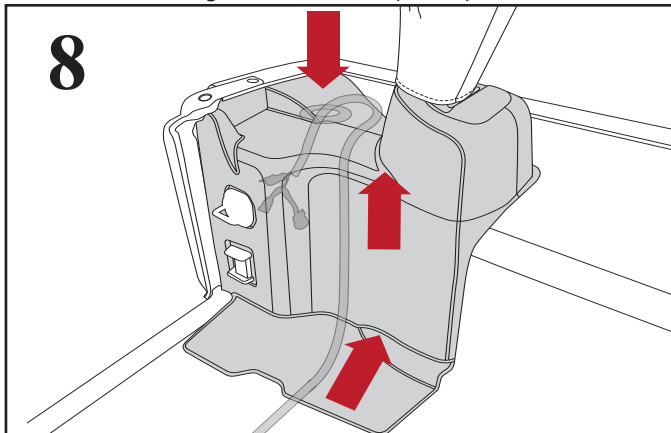


**2007-2011 Jeep® Owners Only. 2011+ Jeep® Owners skip to Step 8.** Route the tail light portion of the electrical harness underneath the carpet and through the hole found at the rear and top of the wheel well. Remove the grommet and pull the cord through to the tail light opening at the rear of the vehicle.

**Owners Without a Towing Wire Harness - Skip to Step 9.**

**Owners With a Towing Wire Harness - Skip to Step 10.**

8

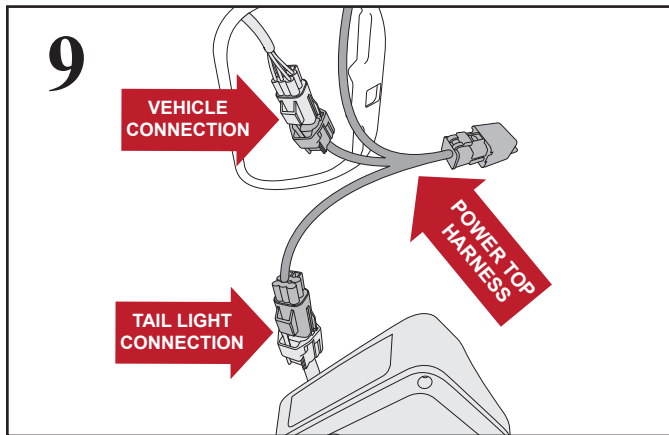


**2011+ Jeep® Owners Only.** Remove the plastic cover over the rear wheel well. Route the tail light portion of the electrical harness underneath and through the notch that was cut out in Section C to route the hydraulic hoses. Route the electrical harness through the hole found at the rear and top of the wheel well. Remove the grommet and pull the cord through to the tail light opening at the rear of the vehicle. Re-install the rear driver side cover over the routed harness.

**Owners Without a Towing Wire Harness - Skip to Step 9.**

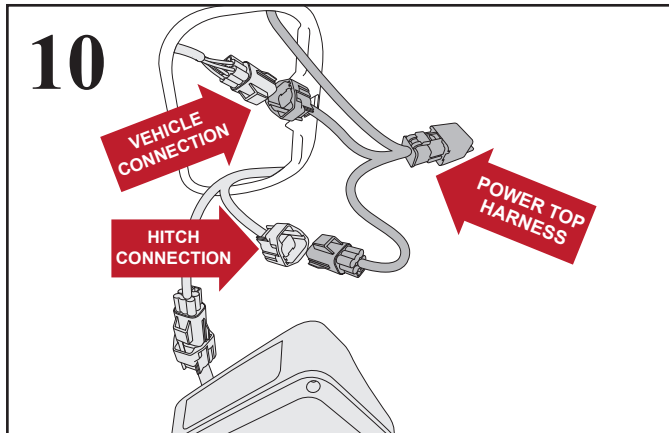
**Owners With a Towing Wire Harness - Skip to Step 10.**

9



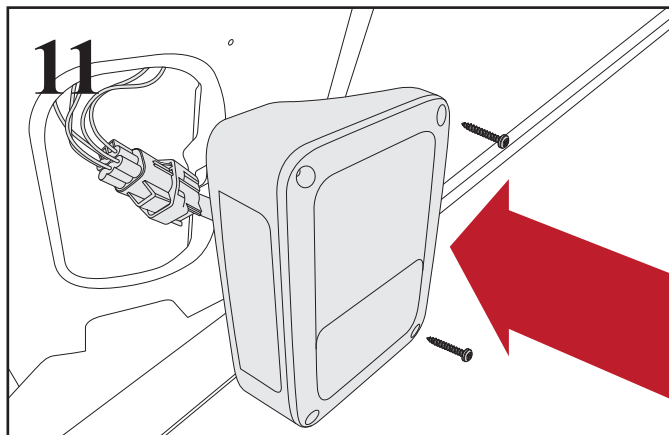
**Owners Without a Towing Wire Harness -** Connect power top electrical harness to vehicle tail light harness by connecting the male Power Top connector to the female vehicle connector and connecting the female power top connector to the male tail light connector. Skip to Step 11.

10



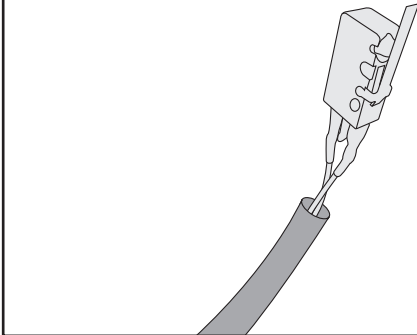
**Owners With a Towing Wire Harness -** Connect power top electrical harness to vehicle tail light harness by connecting the male Power Top connector to the female vehicle connector and connecting the female power top connector to the male hitch connector.

11



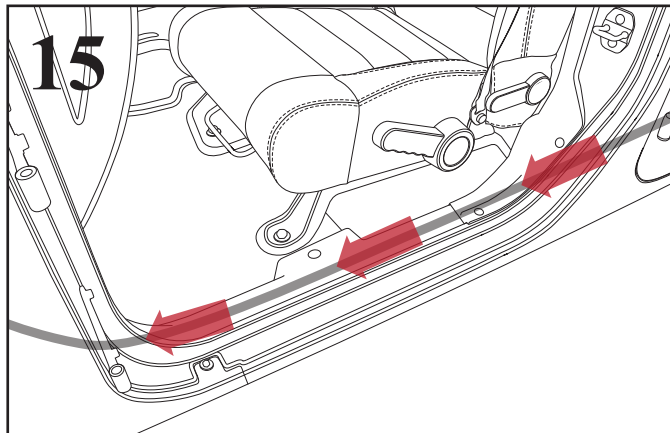
Re-install the tail light.

# 12



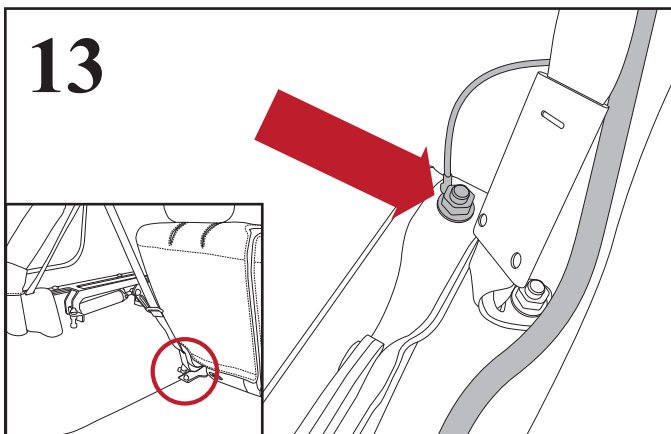
Safely set the 2 limit switches aside to prevent any damage.

# 15



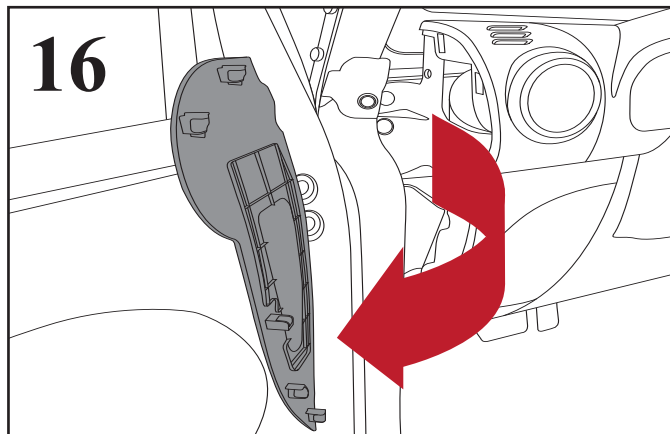
Remove panel fasteners. Continue to route the cable underneath the side panels into the front floor compartment underneath dash. Re-install any panel fasteners removed.

# 13



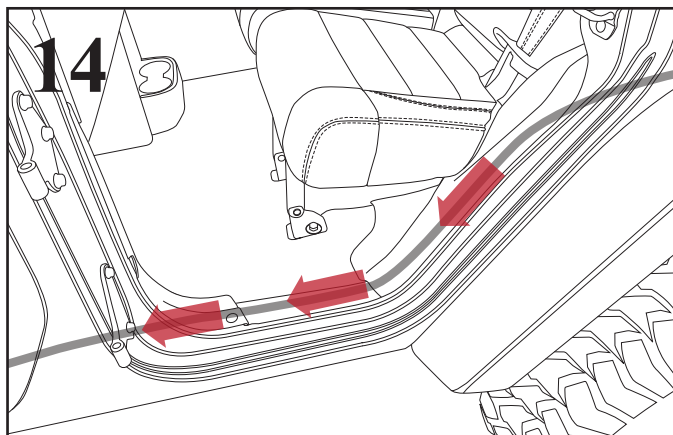
Route the remaining electrical harness underneath the carpet. Attach the rear ground wire to the back seat mounting bracket. Be sure harness routes to the outside of the seat belt.

# 16



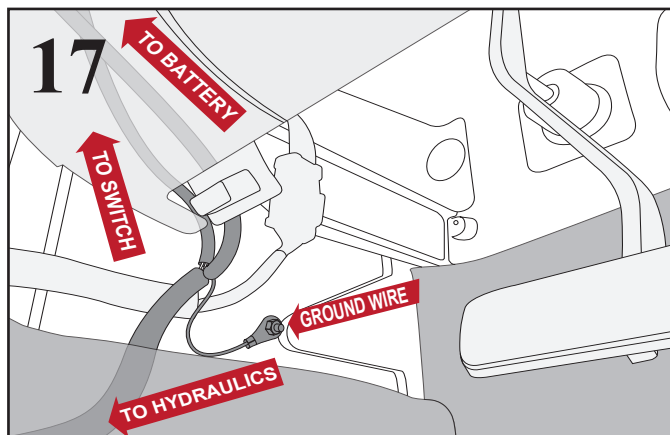
Remove the panel located on the side of the dash.

# 14



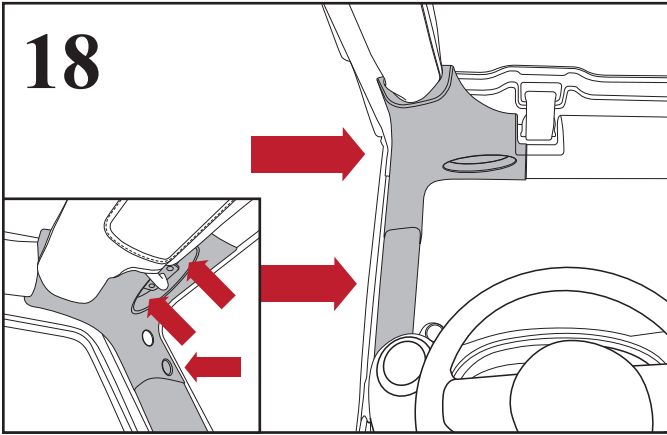
Remove panel fasteners. Continue to route the cable underneath the carpet and side panels. Re-install any panel fasteners removed.

# 17



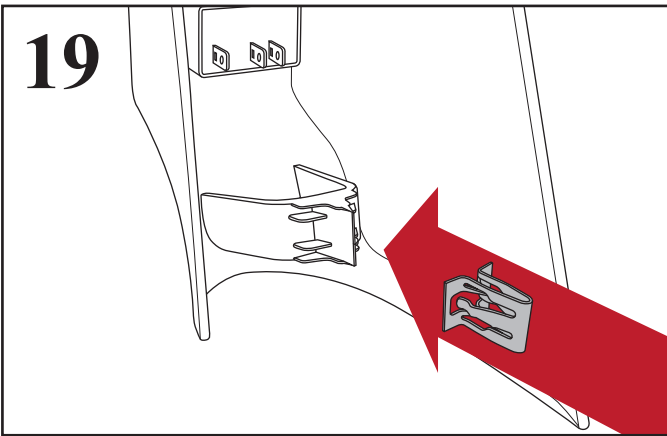
Attach the front ground wire to the side of the vehicle body underneath the drivers side dash. Continue to route the cable up along the side of the drivers side A-pillar and behind door wires.

# 18



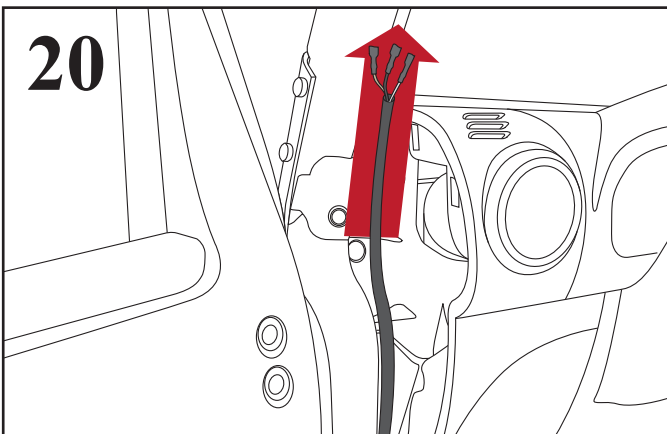
Remove drivers side sun visor and upper and lower A-pillar trim panels.

# 19



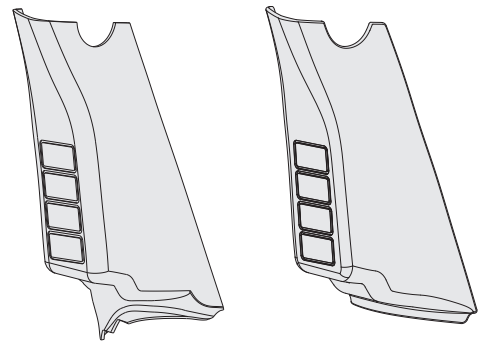
Install trim clips onto your A-pillar switch pod.

# 20



Route the cable with three plugs along the drivers side A-pillar.

# 21

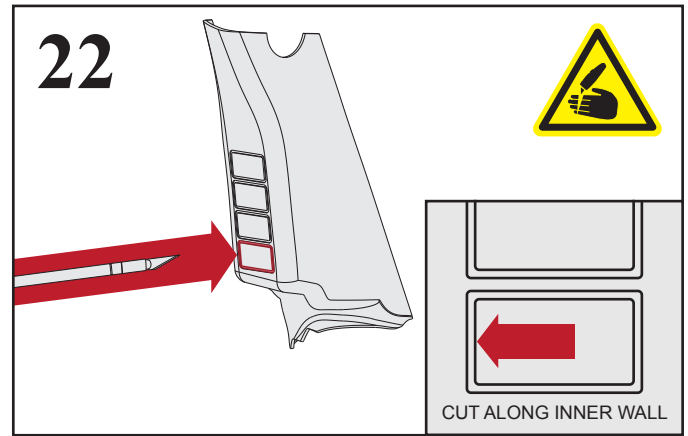


2011+ Jeep®

2007-2010 Jeep®

2 switch pods are provided. Choose the switch pod that fits your vehicle.

# 22

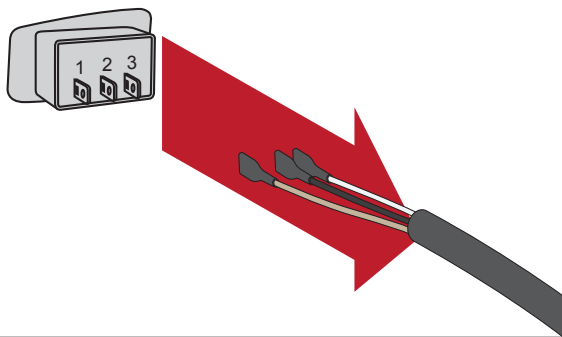


**Care must be taken while cutting switch openings because plastic is thick.** Cut off lower panel of the A-pillar switch pod. Be careful to cut along the inner wall as indicated. This will insure that the cut is not too large for the switch. Run utility knife over the cut lines several times before cutting through the plastic. If needed cutting blade can be heated to aid in cutting the plastic.

**CAUTION**

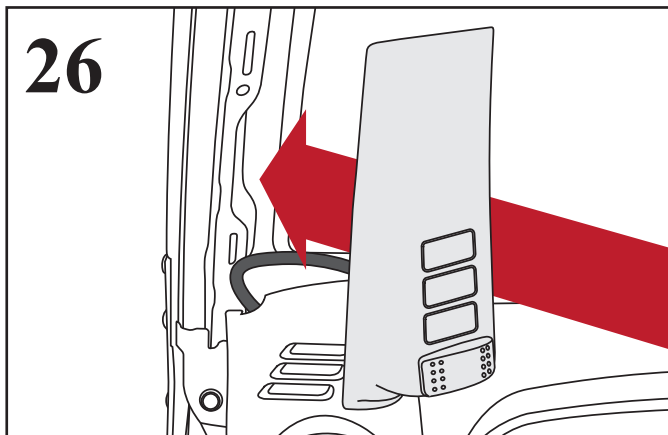
Cutting/Sharp Edge Hazard: Cut carefully using gloves and eye protection.

# 23



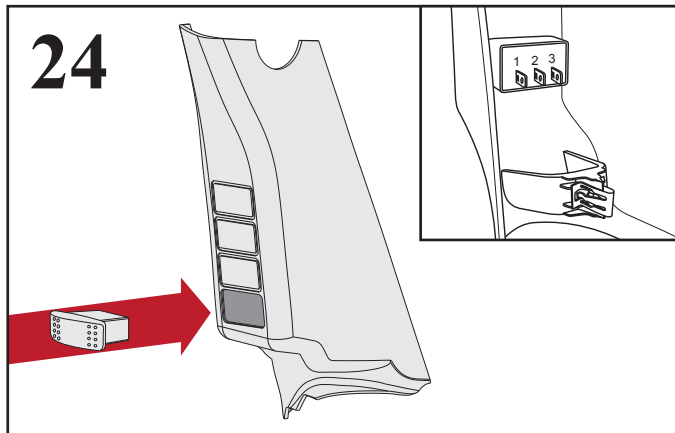
Detach the wires as shown from the switch found attached to the electrical harness.

# 26



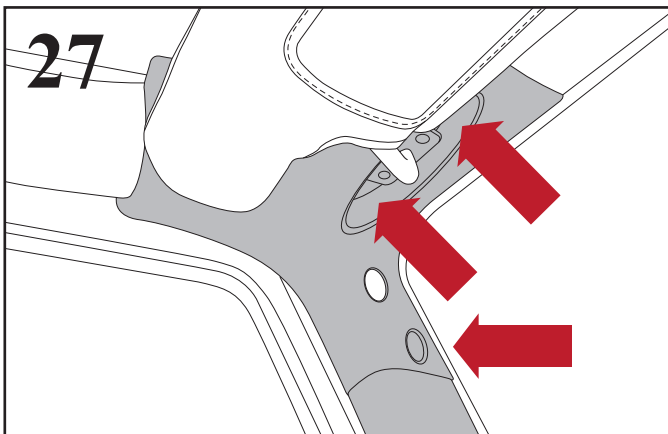
Attach the A-pillar switch pod to the drivers side A-pillar.

# 24



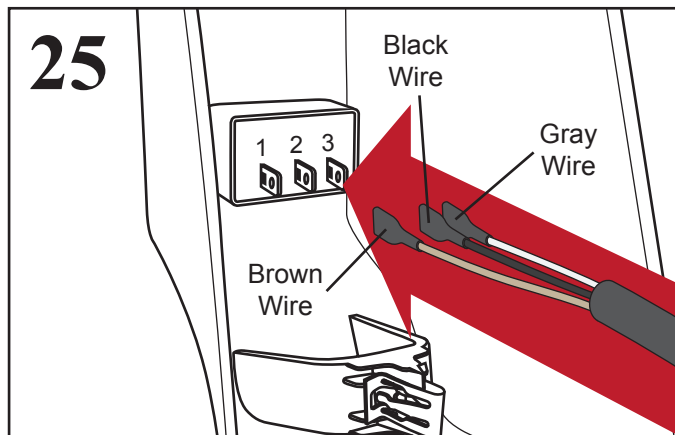
Insert switch into cut opening. Trim opening as needed. Only remove enough material to allow switch to be installed. If too much material is removed switch will be loose and result in a poor fit. Orient the switch so that it coincides with the smaller image shown.

# 27



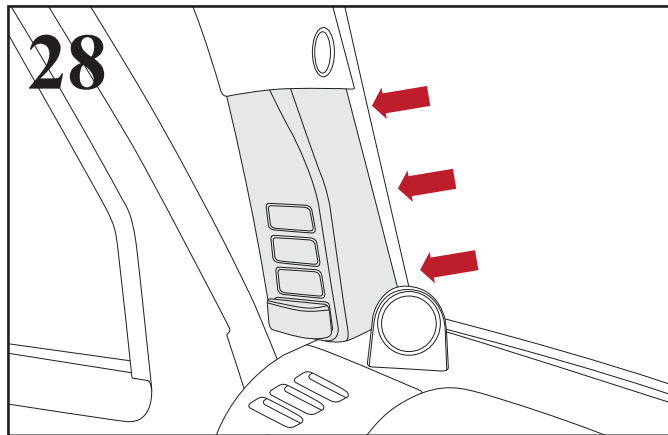
Re-attach the top A-pillar trim panel removed in step 18. Re-install sun visor. Saving the bottom A-pillar trim panel is recommended.

# 25



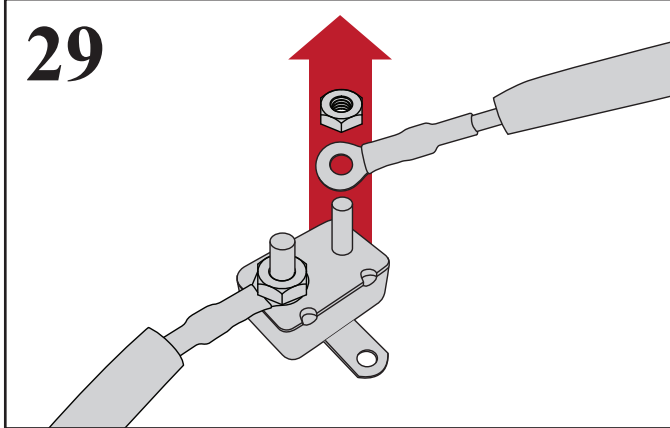
Attach the wires as shown. Make sure the black wire is located in the center.

# 28



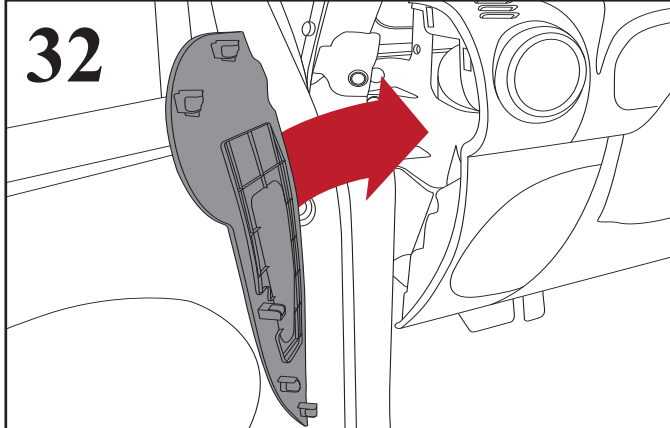
Check fit of the A-pillar switch pod. Trim should fit just to the inside edge of the windshield frame.

29



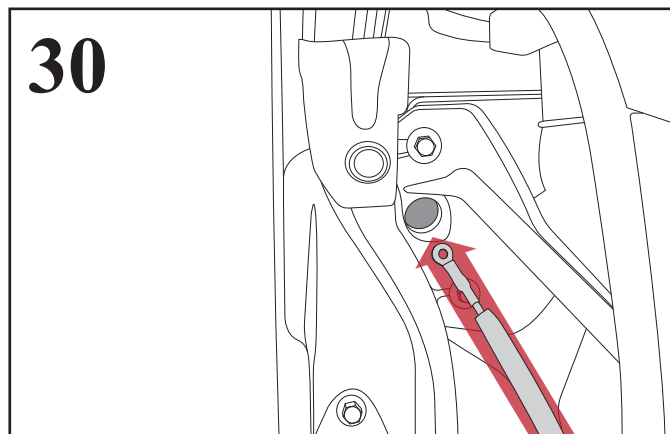
Remove the short wire and it's circuit breaker from the long wire.

32



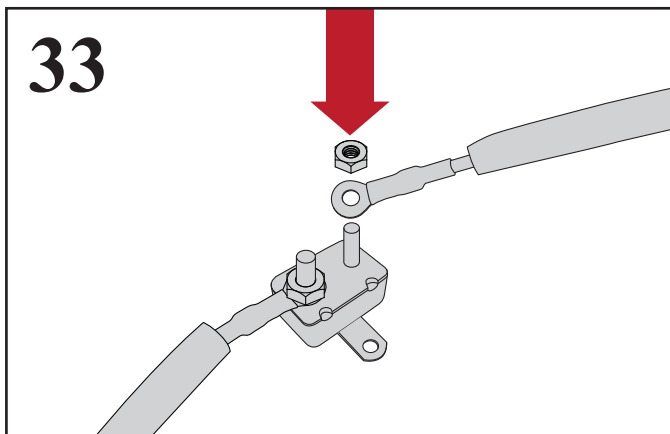
Re-attach the side panel of the drivers side dash.

30



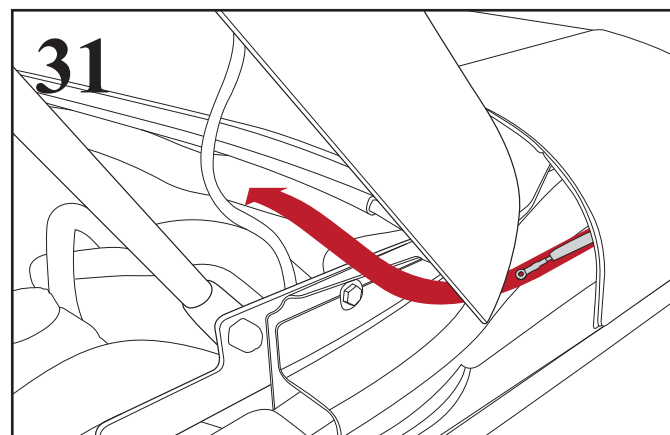
Locate the hole filled with foam behind the drivers side dash. Using a screwdriver, puncture a hole in the foam. Push the remaining wire through the punctured hole into the engine compartment.

33



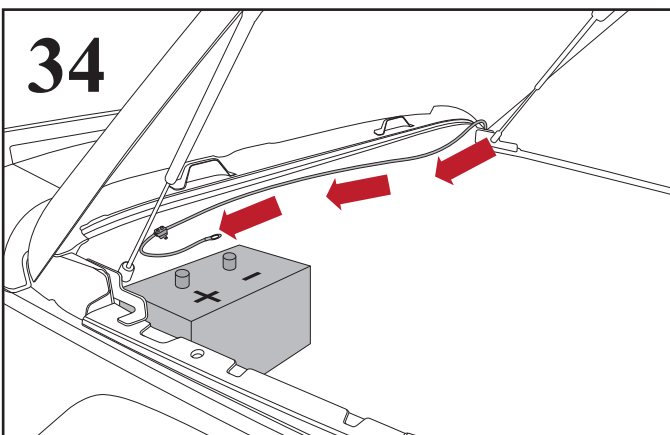
Re-attach the long wire to the circuit breaker.

31



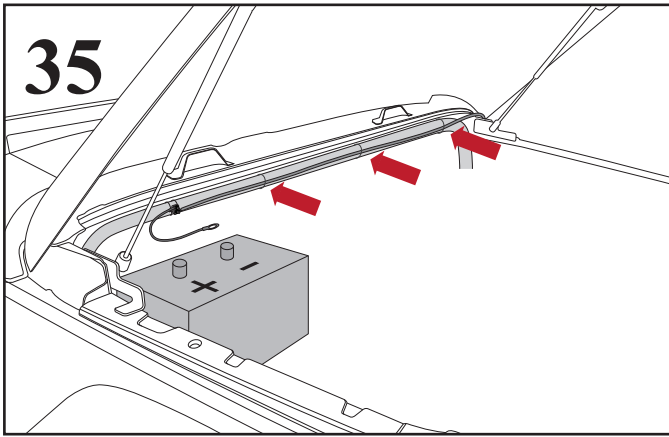
Pull the remaining wire into the engine compartment.

34



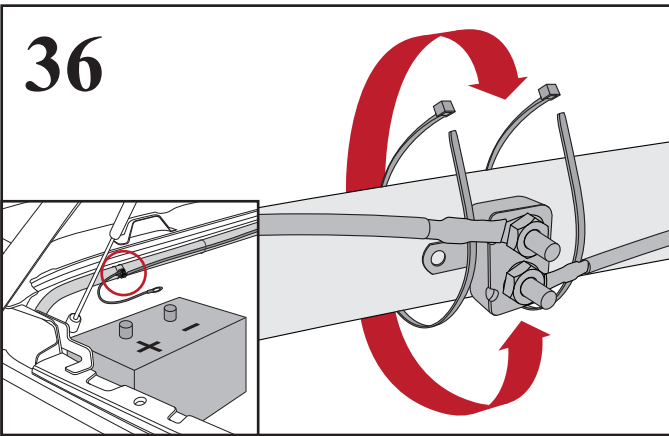
Route the wire along the fire wall to the battery.

# 35



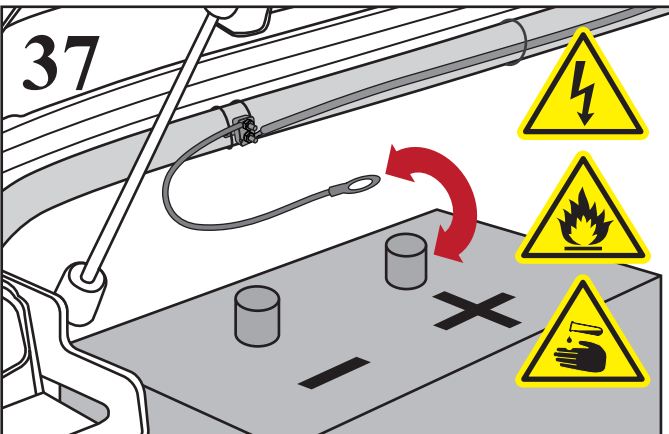
Fasten the wire with zip ties along the vehicle electrical harness located along the firewall. **2012+ Jeep® JK** proceed to Step 38.

# 36



**2007-2011 Jeep® JK Only.** Strap the circuit breaker with zip ties.

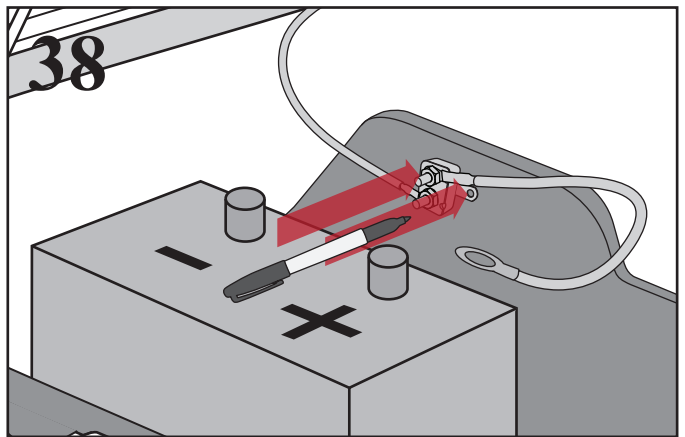
# 37



**2007-2011 Jeep® JK ONLY.** Attach the wire to the battery's positive side. Proceed to Step 42.

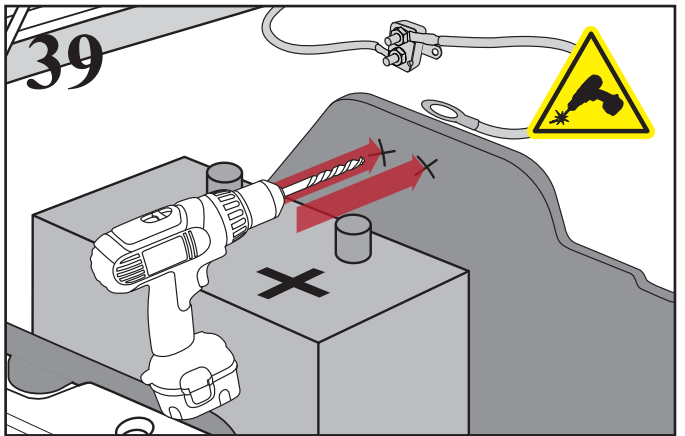
**⚠ WARNING** Shock/Fire/Chemical Hazard: Confirm area free from gasoline and other flammable vapors. Avoid bridging terminals with metal tools. Wear gloves and eye protection.

# 38



**2012+ Jeep® JK ONLY.** Position circuit breaker on the plastic battery tray and mark guide holes for drilling.

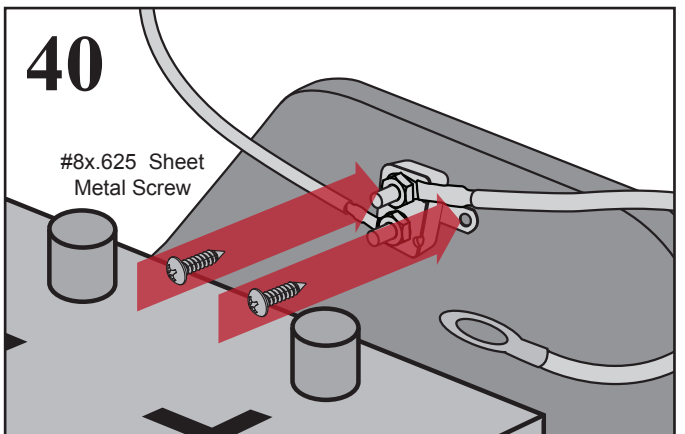
# 39



**2012+ Jeep® JK ONLY.** Drill into the plastic battery tray using a 9/64 drill bit.

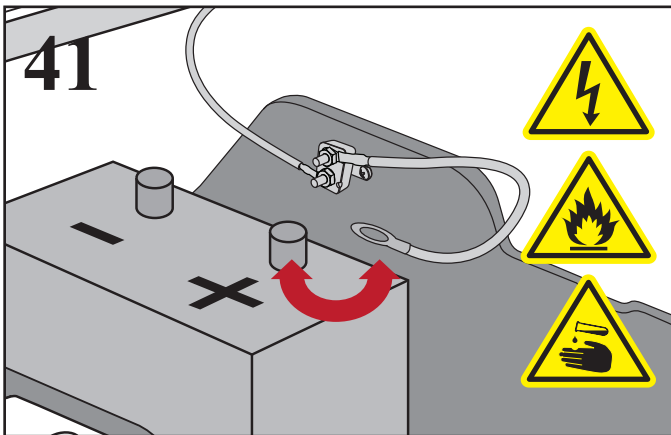
**⚠ CAUTION** Cutting Hazard: Avoid pressure & heat on bit. Use gloves and eye protection.

# 40



**2012+ Jeep® JK ONLY.** Attach the circuit breaker to the plastic tray that holds the battery.

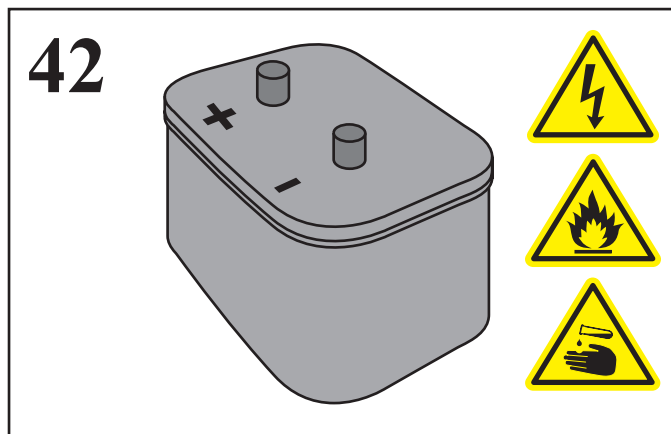




Attach the wire to the battery's positive side.

**⚠ WARNING**

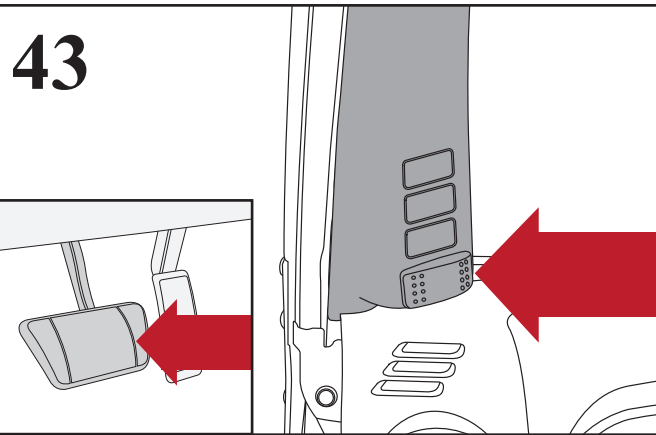
Shock/Fire/Chemical Hazard: Confirm area free from gasoline and other flammable vapors. Avoid bridging terminals with metal tools. Wear gloves and eye protection.



Re-connect the battery to the vehicle by first attaching the positive then the negative cables.

**⚠ WARNING**

Shock/Fire/Chemical Hazard: Confirm area free from gasoline and other flammable vapors. Avoid bridging terminals with metal tools. Wear gloves and eye protection.



Test the electrical system of the Power Top to confirm that it is correctly working. **Please refer to the operational checklist found on page 3.**

**⚠ CAUTION**

Limit switches not installed at this point for purposes of testing and adjustment. To avoid damage, carefully watch the motion of the top. Lift off the switch before reaching the full up or down position.

Hold down your brake then press the **left side** of the switch to open the top. Press the **right side** of the switch to close the top.



Please refer to page 1-2 for further information on safety.

## SECTION - F - Making Adjustments and Attaching Surrounds

**Section Description-** This section will illustrate how to install the surrounds and make adjustments to the side arm assemblies.

### Tool Needed -

Allen wrench (3/16", 1/8")

Wrench (9/16", 3/8", 7/16")

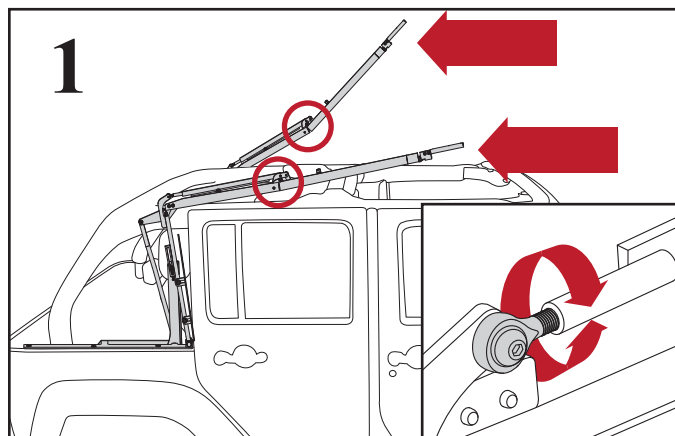
Velcro® packaged with canvas

Socket wrench (9/16", 7/16")

Phillips head screw driver

Hardware Kit - #5

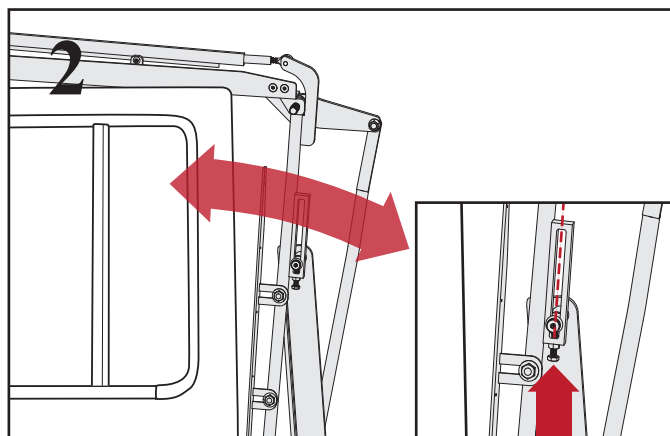
**NOTICE** Carefully read and understand all instructions before proceeding.



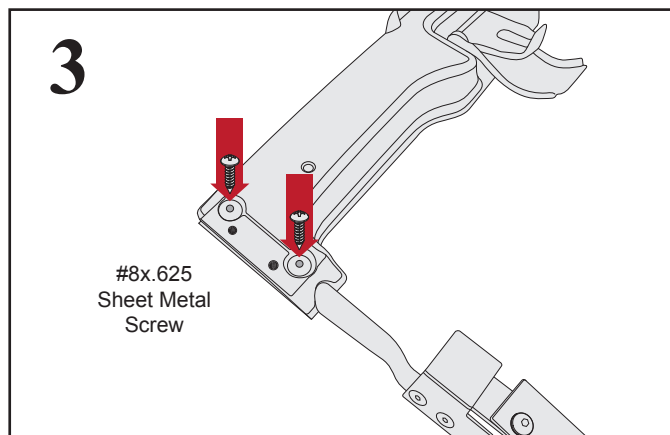
Inspect and adjust the rate at which the side arm assemblies fold during operation. Both hinge points circled above should extend at the same time. Also, both side arm assemblies should become fully extended before reaching the closed position. **Only if absolutely necessary**, follow adjustment steps below on how to adjust the fold rate of the side assemblies:

1. Remove bolt securing the heim joint to the side arm assembly.
2. Thread heim joint **IN** for sooner extension
3. Thread heim joint **OUT** for later extension
4. Re-attach heim joint to side arm assembly

Note: The image above shows side arm assemblies in need of adjustment.

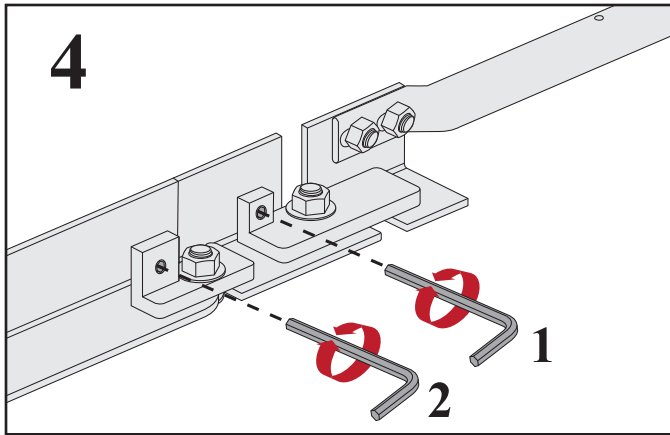


Remove the indicated bolt. Close the top so the side arm assemblies fall into the header. Re-install and tighten the bolt.

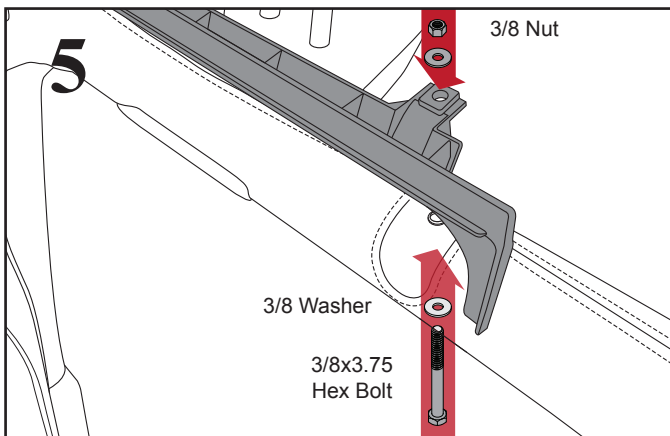


With the Power Top in the open position, attach the bottom half of the factory header to the side arm assembly.

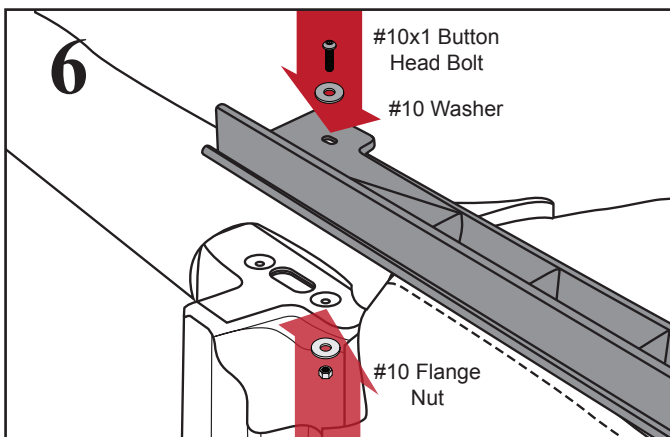




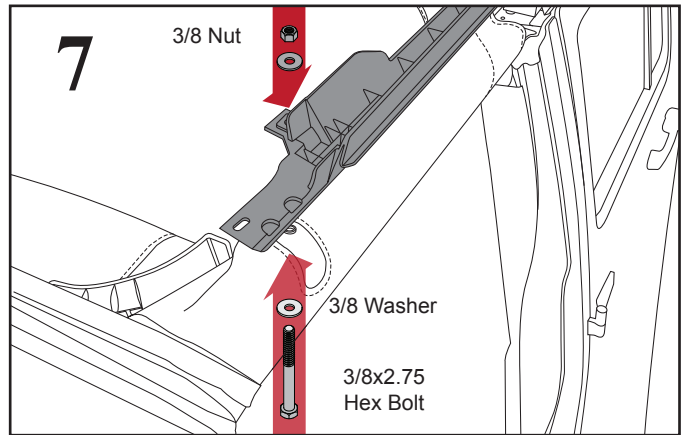
**Confirm that pre-adjusted set screws are correctly adjusted.** With the Power Top in the open position, tighten set screw 2 until it pushes against the wall of the side arm assemblies. Close the Power Top, do not latch it. Tighten set screw 1 until it pushes against the wall of the side arm assemblies.



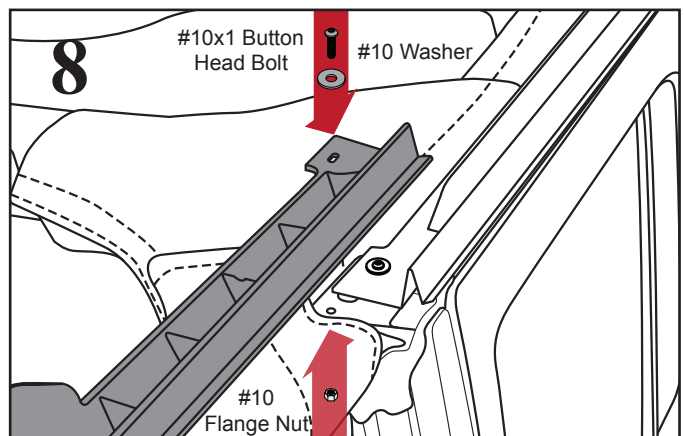
With the Power Top in the open position, unzip roll bar covers and attach rear surrounds to vehicle roll bar starting with the back as shown.



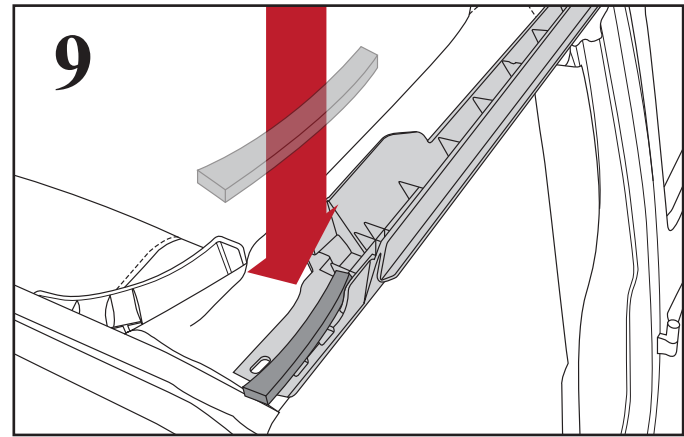
Unzip roll bar covers and secure the other side of the rear surrounds to the B-pillar.



Unzip roll bar covers and attach front surrounds to vehicle roll bar starting with the front as shown.

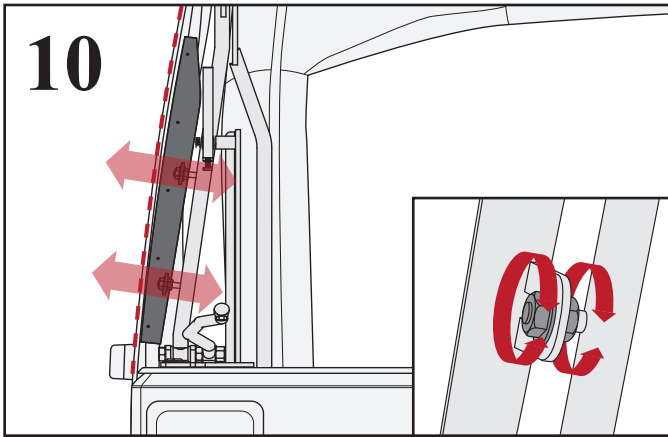


Unzip roll bar covers and secure the other side of the front surrounds to the B-pillar.



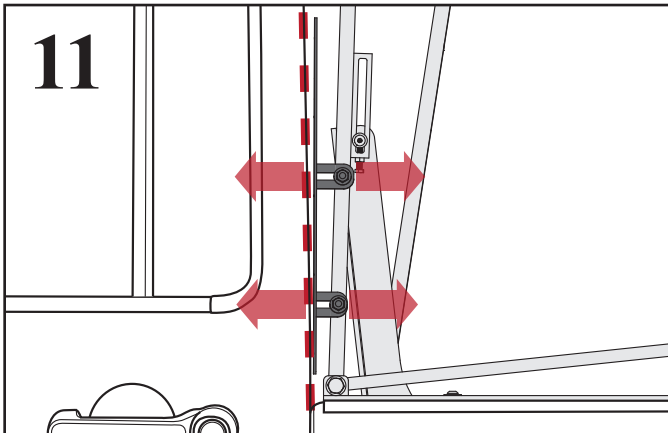
Apply a 5 inch section of foam tape to the front surrounds. Tape should overlap onto vehicle at the front.

# 10



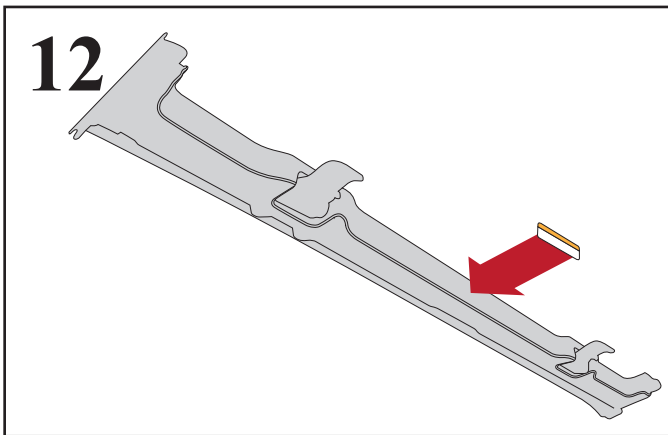
With the Power Top in the closed position, adjust the nuts found on the side bracket to align the outer edge of the side bracket with the seal of the rear door.

# 11



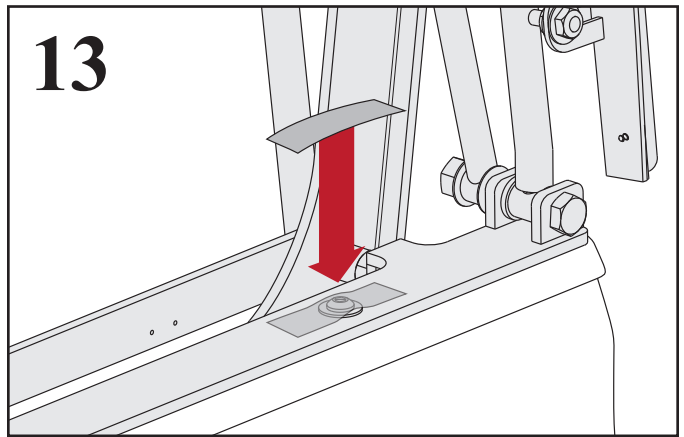
Adjust the side bracket to align with the seal on the rear door.

# 12



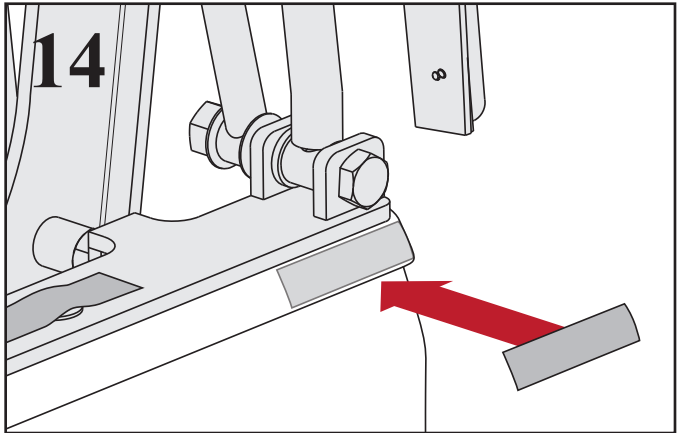
Attach the supplied warning sticker on the header as indicated. Note: The warning sticker should be visible when Power Top is closed.

# 13



Attach the supplied soft loop Velcro® as indicated to provide protection against abrasion.

# 14



Attach the supplied soft loop Velcro® as indicated to provide protection against abrasion.

## SECTION - G - Attaching the Power Top Canvas

**Section Description-** This section will illustrate how to attach the canvas and bows to the Power Top.

### Tool Needed -

Phillips head screw driver

Allen wrench (5/32")

Permanent thread lock

Hand punch

Duct tape

Wrench (1/2", 3/8")

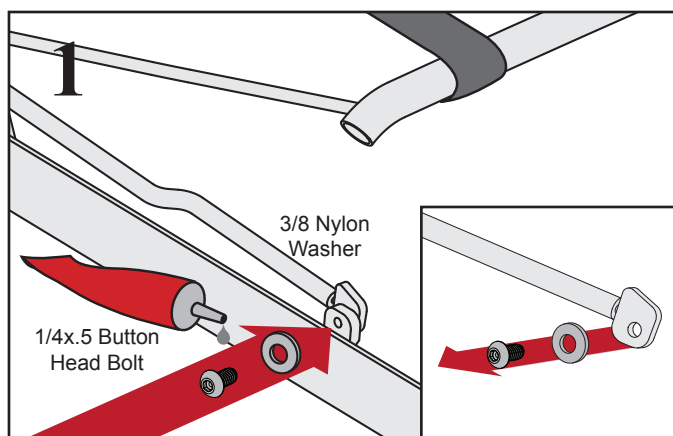
Drill (3/16")

Hand file

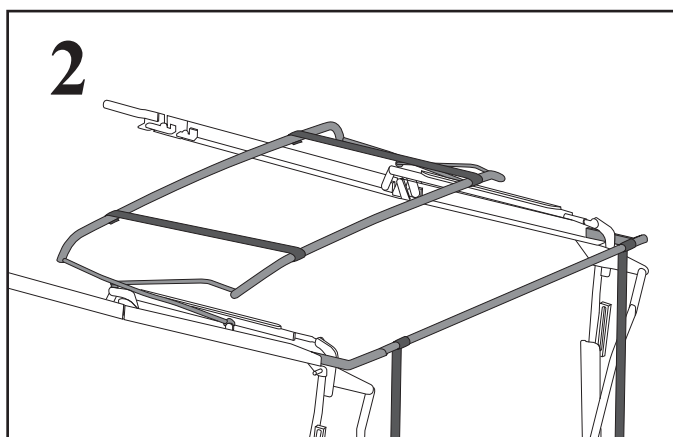
Velcro® packaged with canvas

**Hardware Kit - #6**

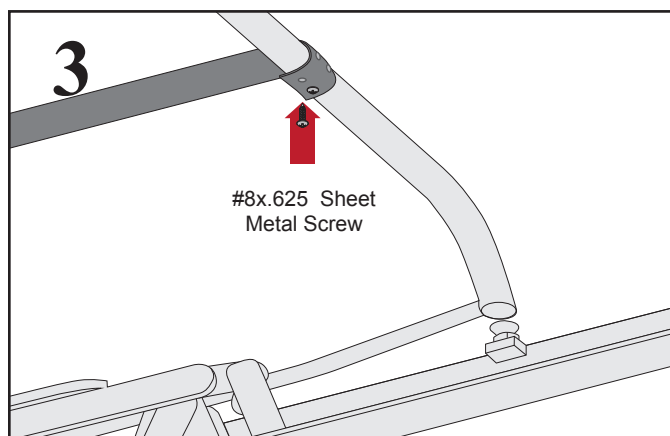
**NOTICE** Carefully read and understand all instructions before proceeding.



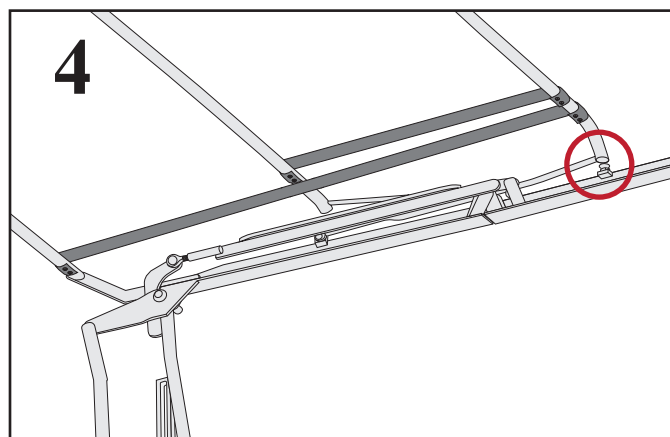
Detach the two bolts and nylon washers from the ends of Bow C. Attach Bow C to the side arm assemblies. Use thread lock to secure bolts. Follow manufacturers instruction for application of thread lock.



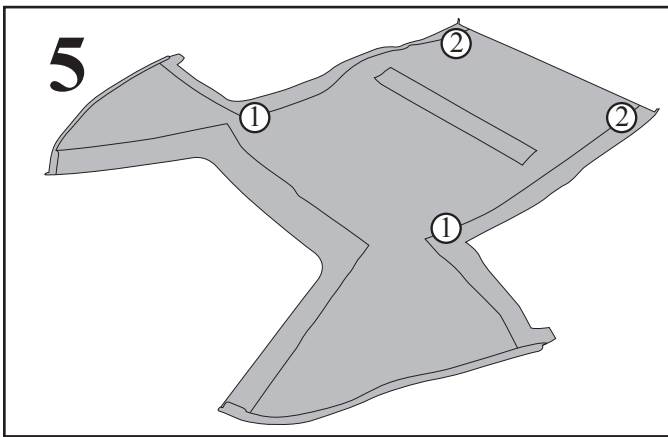
This will be the correct assembly once Bows C and D are attached.



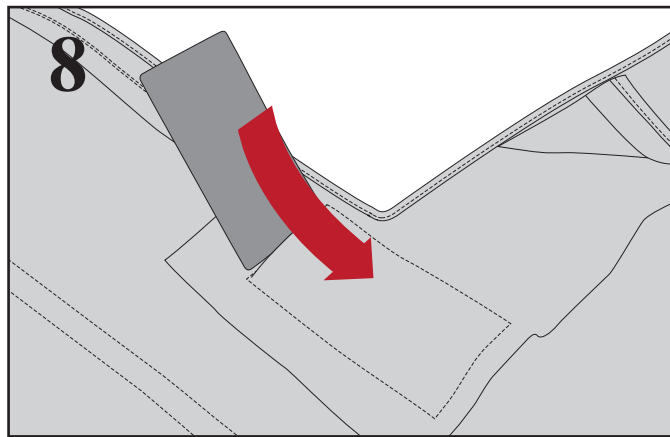
Attach the long straps from bow Bow B to Bow C. Make sure the long elastic straps fall underneath Bow D.



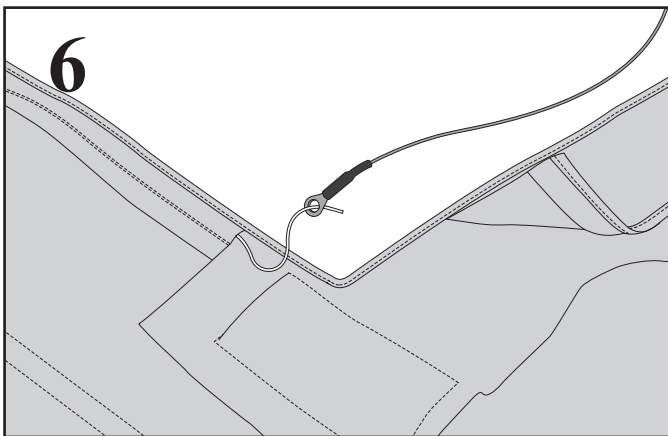
The straps should be installed as shown in the image. Make sure Bow D falls onto the rubber bumper as indicated.



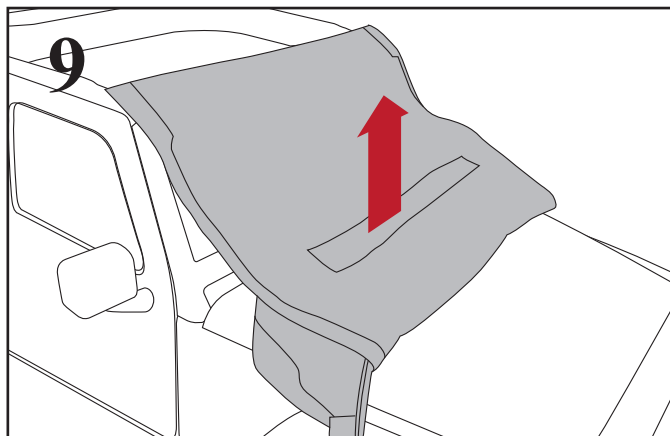
Lay out Power Top canvas with the interior side up.



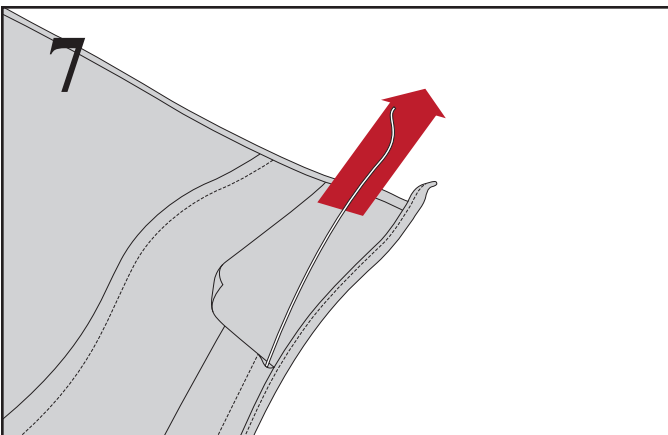
Insert the abrasion guard into its pocket found near locations 1.



Find locations 1 (indicated in Step 5 image) of the canvas. Locate the feeder string that is strung through the sewn sleeves. **DO NOT PULL!** Tie a strong knot through the eyelet of the cable.



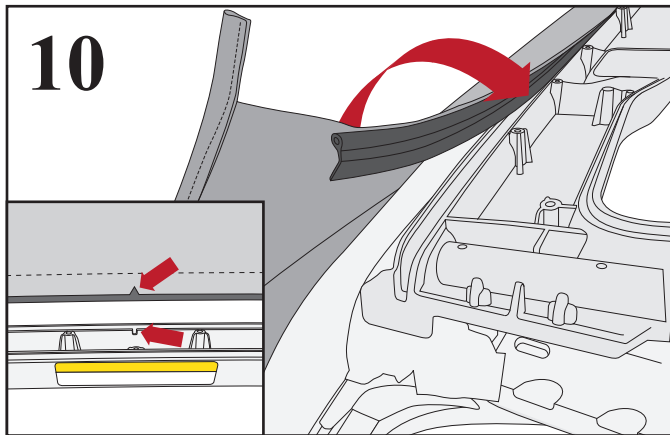
Position your canvas on top of your vehicle so that the interior side faces up. Pull locations 2 (indicated in Step 5 image) towards the top of the windshield.



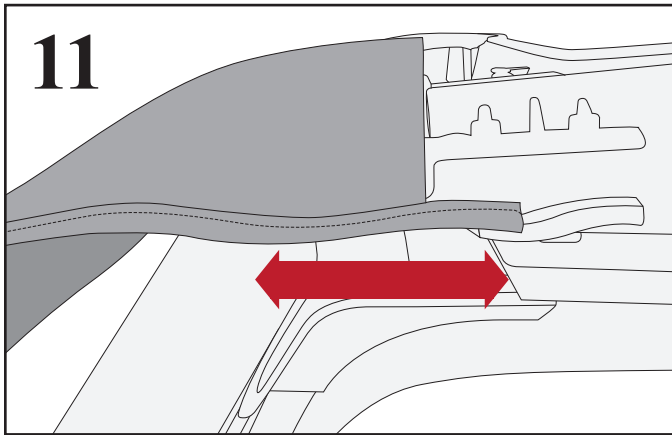
Pull the steel cable through the sewn sleeve by pulling on the opposite side of the string found at locations 2.

**NOTICE**

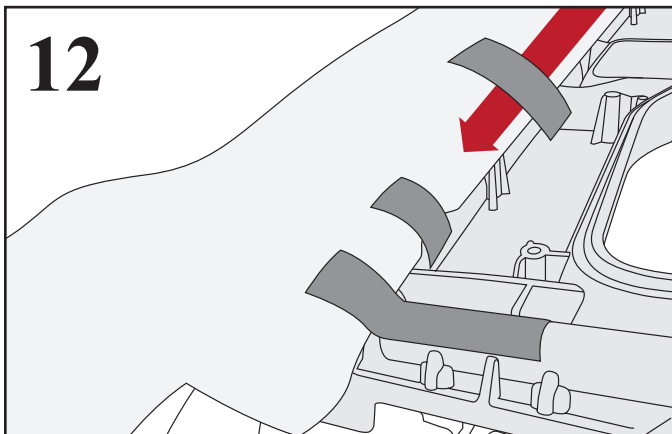
Double check that the string is tightly secured to the steel cable before pulling.



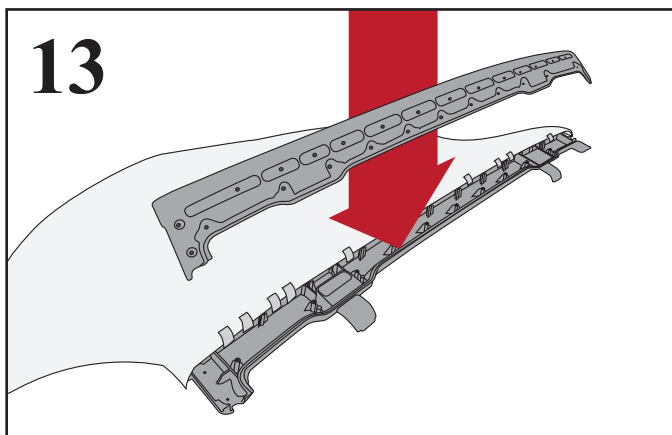
Pull the canvas p-channel into the channel at the front of the header. **Use both the center notch in the p-channel and the notch in the header to center the top.**



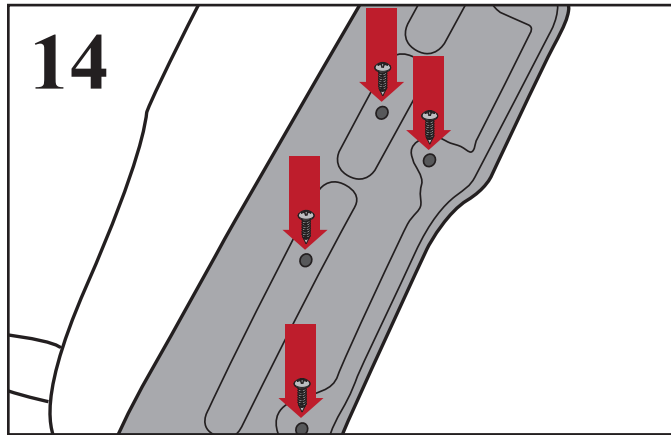
Check and make sure the canvas is centered from side to side and aligns parallel to the top of the vehicle.



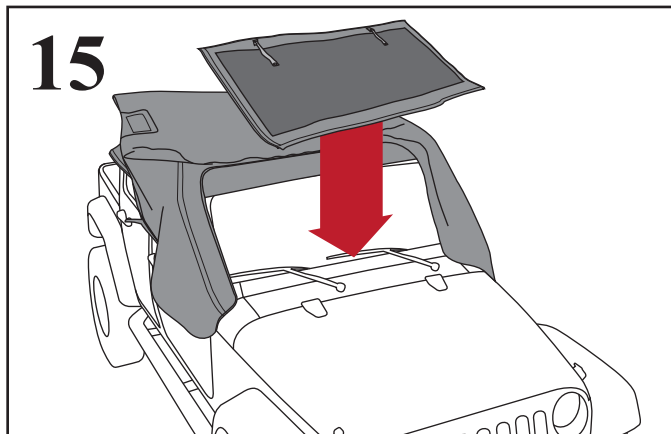
Attach the canvas to the header with duct tape so that it is secure across the entire width of the header.



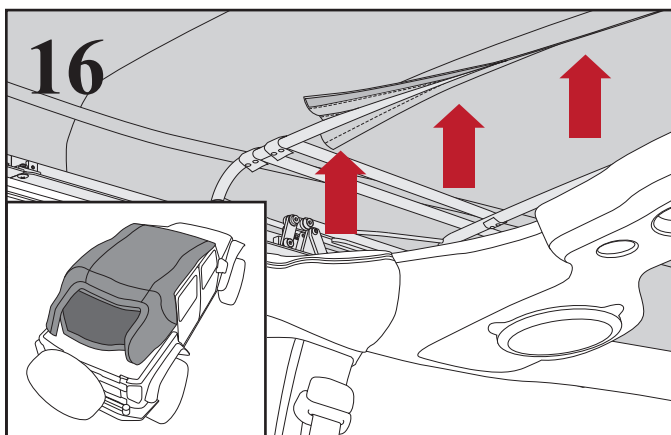
Place the top of the header back onto the bottom.



Secure the canvas to the header by installing the screws removed in SECTION A.

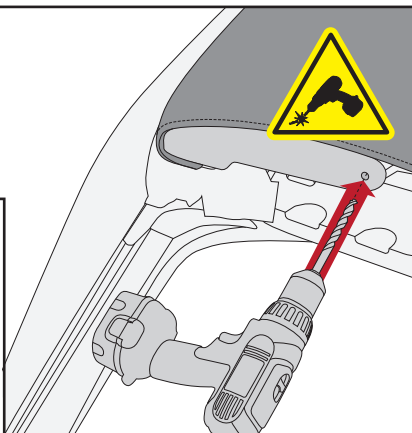
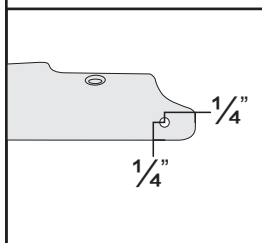


Flip the canvas over onto the top of the vehicle so that the rear side of the canvas is easily accessible. Partially install the rear window of the canvas. Fully zip the top zipper and partially zip up the sides. Note: this step simplifies the attaching of the rear window. The rear window can be attached later.



Drape canvas over the rest of the vehicle. On the inside of the canvas find two Velcro® sleeves. Attach the Velcro® sleeve located up front to Bow D. Attach the Velcro® sleeve located in the rear to Bow A.

# 17

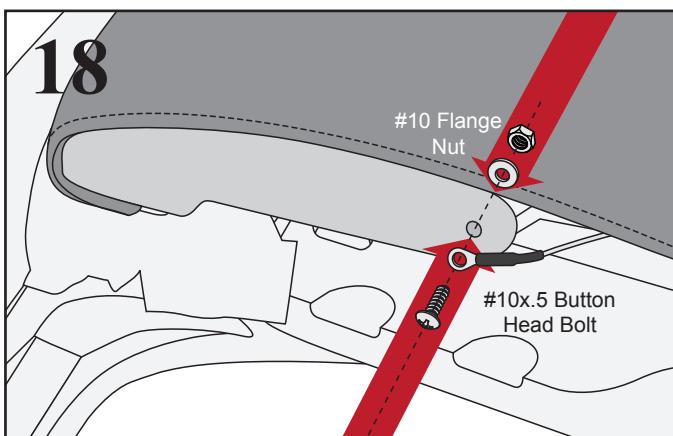


Measure and mark the side of the header as indicated. Drill a 3/16" hole into the side of the header.



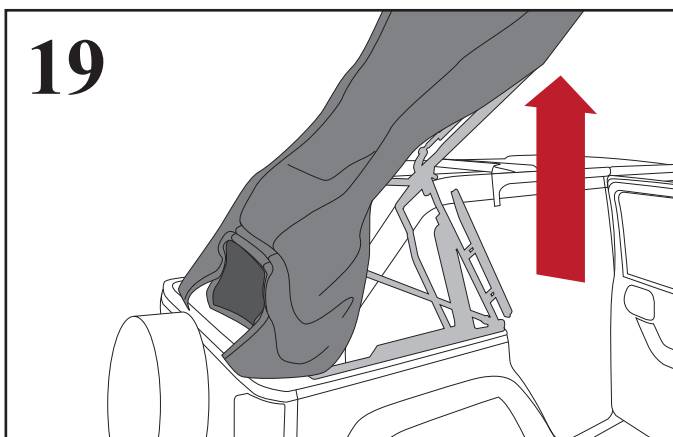
**CAUTION** Cutting Hazard: Avoid excessive pressure & heat on bit. Use gloves and eye protection. Do not damage canvas or vehicle.

# 18



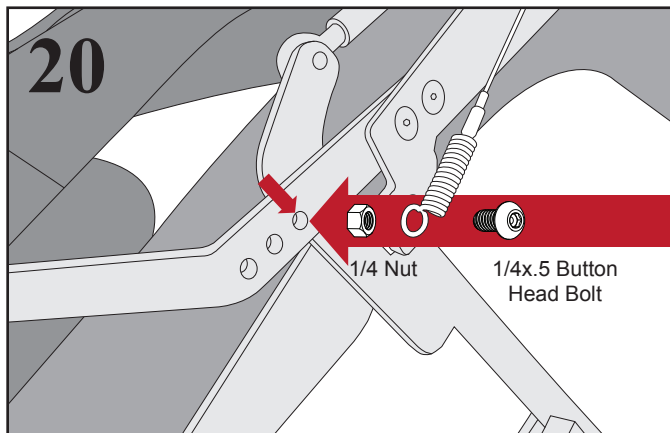
Fasten the canvas cable to the header.

# 19



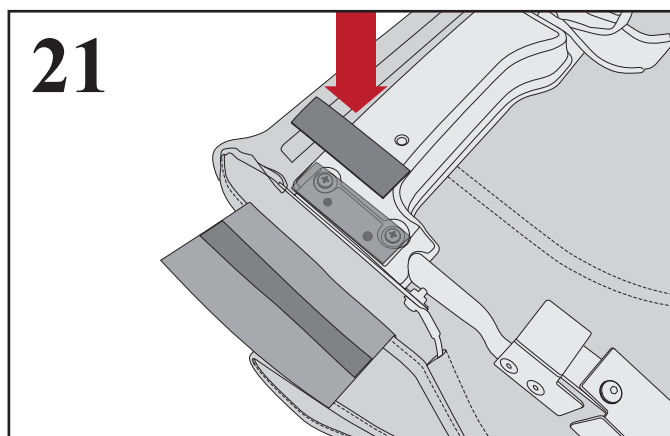
Partially open the power top to the point where the side arm assemblies hinges begin to close.

# 20



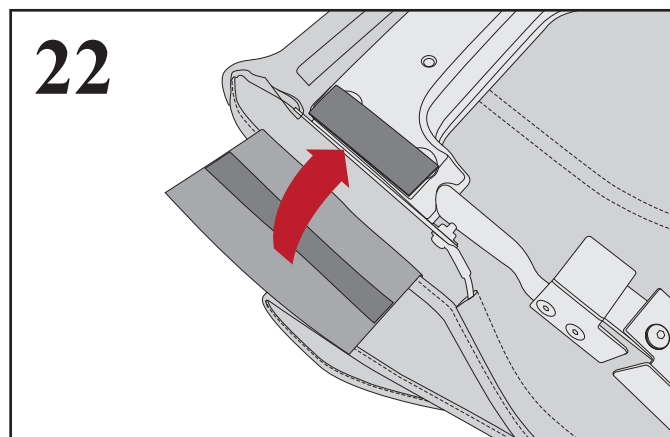
Fasten the loose end of the cable into the hole indicated on Bow B. Note: Three adjustment holes are located on bow B. If the cable become too loose when the top is closed, move the cable attachment to the next hole to tighten the tension.

# 21



With the power top in the open position, attach the provided Velcro® strip to the location indicated on the header.

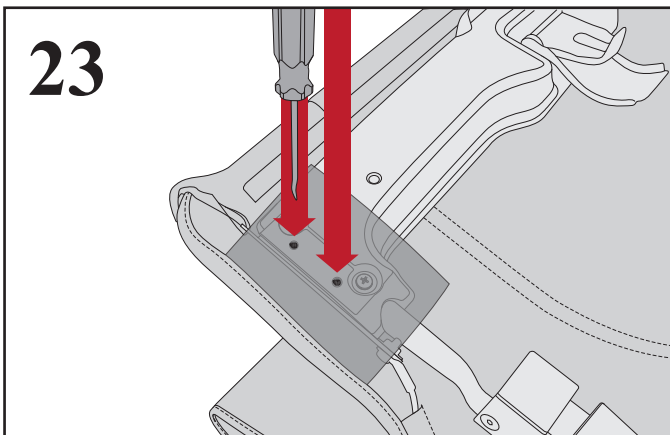
# 22



Fold the flap over the attached Velcro® strip as shown in the image.



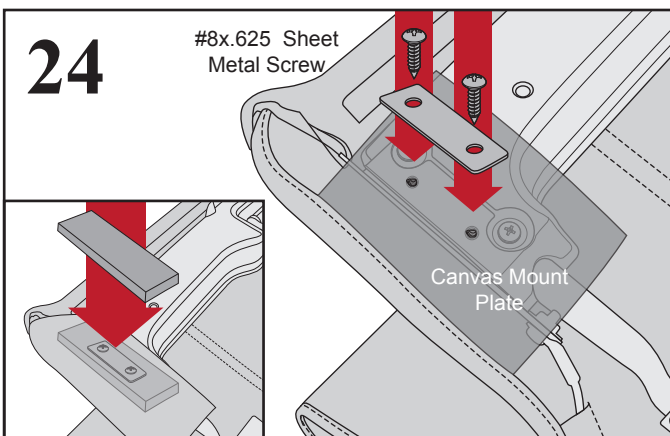
# 23



Once the Velcro® on the canvas flap and header are secure, puncture directly above the two header holes.

# 24

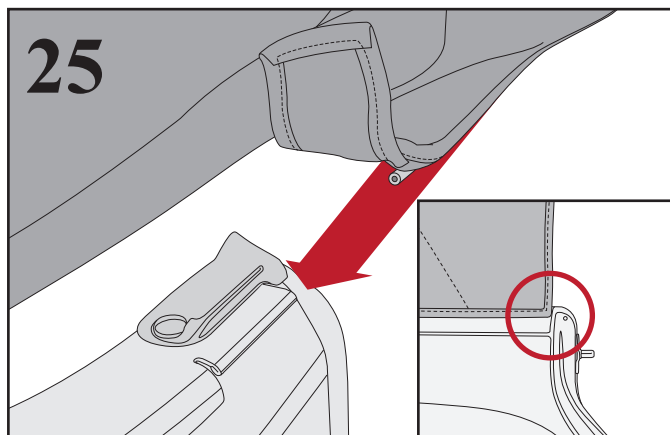
#8x.625 Sheet Metal Screw



Canvas Mount Plate

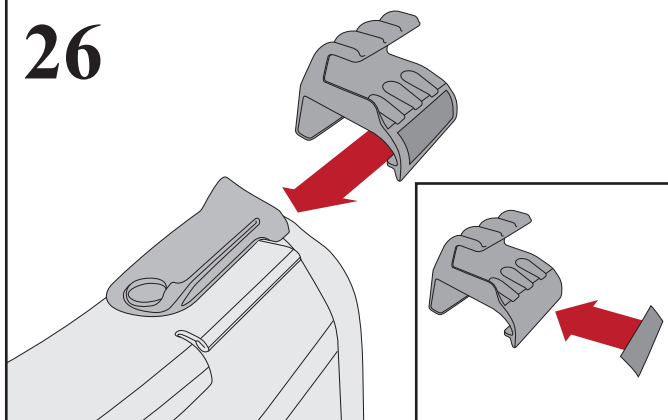
Clamp the fabric to the header using the canvas mount plate. Attach provided foam tape.

# 25



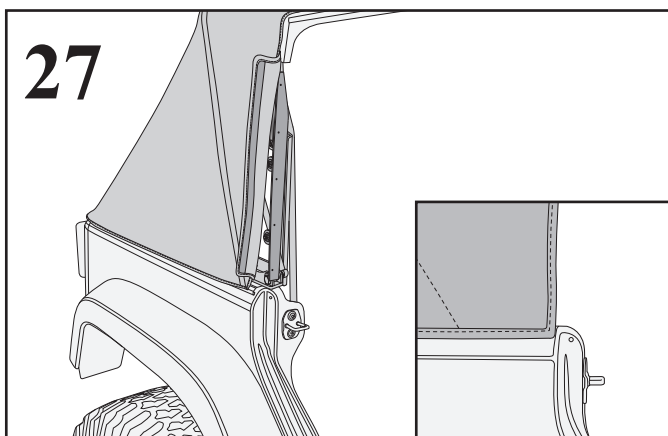
With the power top in the partially open position, similar to step 19, secure the rear canvas to the body by sliding the rubber P-channel into the belt rail until canvas aligns with rear door opening. Note: If P-channel becomes difficult to slide, operate top toward closed position.

# 26



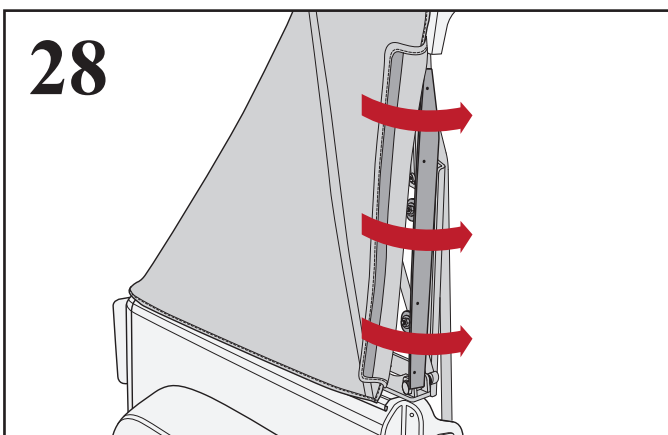
Re-install the tailgate bar holders removed in SECTION A. Install the soft Velcro® strip provided.

# 27

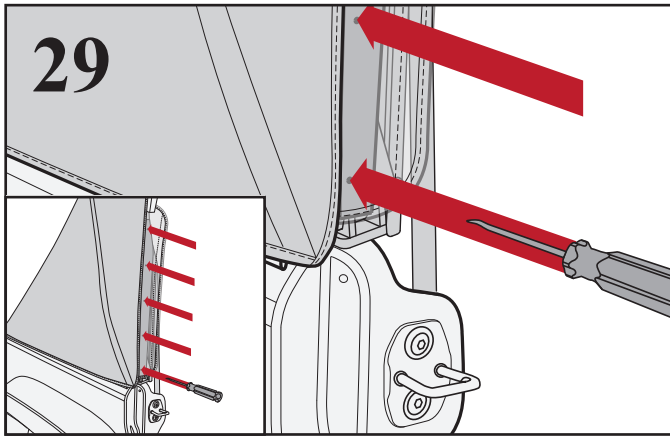


The Power Top canvas should now cover the cargo area. The corner of the canvas has piping that should be at the edge and parallel of the side bracket. **DO NOT operate the Power Top until Steps 28-30 are complete.**

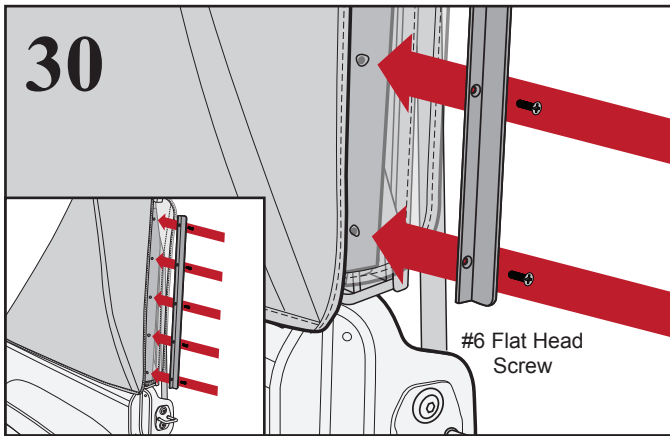
# 28



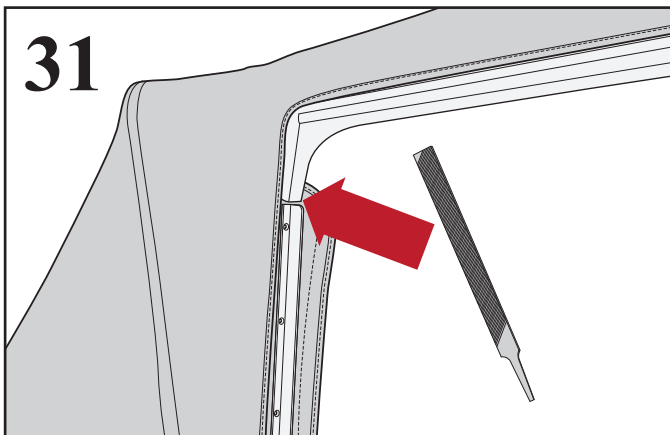
Pull the canvas flap found along the rear door opening tightly around the side arm assembly.



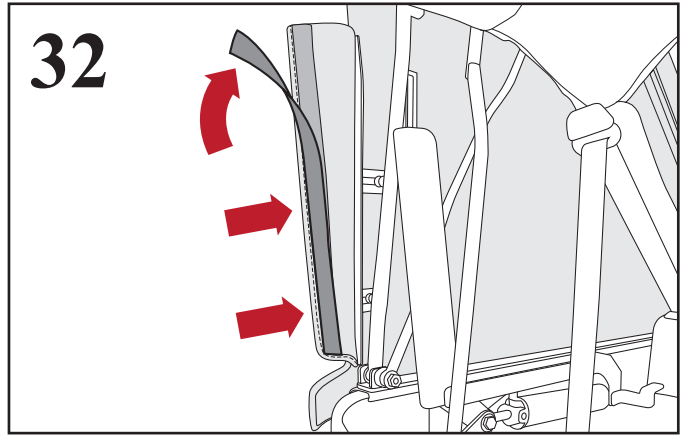
With canvas flap tight, puncture holes to align with the holes in the side bracket.



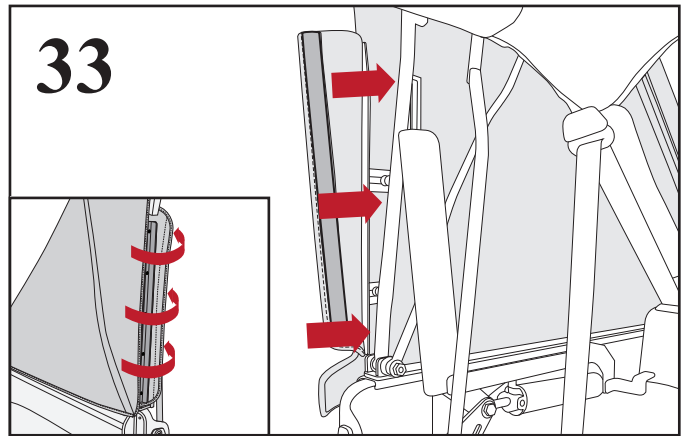
With canvas flap tight, clamp the canvas to the side bracket with the door bracket.



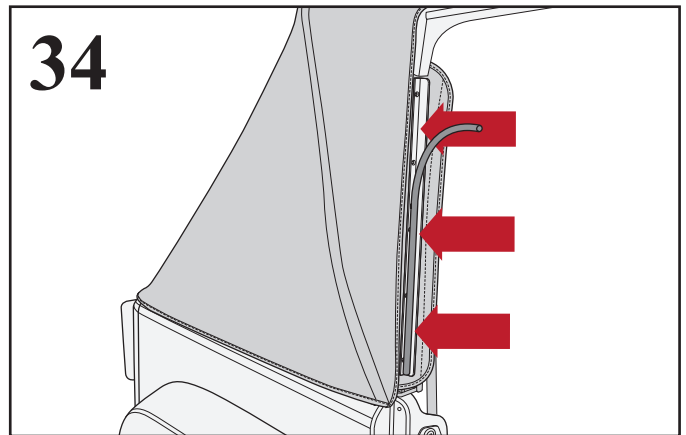
If there is any interference between the door bracket and the rear surround, use a hand file to shave off the bottom of the rear surround. Note: Only do this when there is visible overlapping/collision.



Attach the Velcro® strip to the Velcro® on the inside of the canvas flap. Remove the adhesive liner from the Velcro® strip.



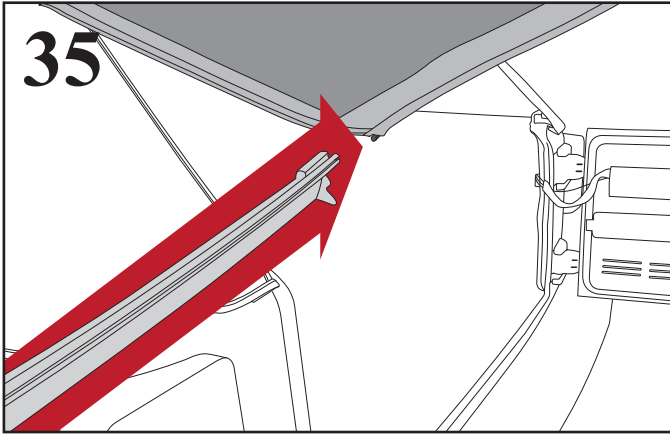
Wrap the canvas flap around the side bracket and adhere the Velcro® strip to the bar indicated above.



Attach the provided foam seal in the corner of the door bracket.



**35**



Slide the tailgate bar onto the P-channel found at the bottom of the rear window. Now zip up the rear window and secure the tailgate bar into the tailgate bar holders.

## SECTION - H - Attaching Limit Switches

**Section Description-** This section will illustrate how to install the limit switches.

**Tool Needed -**

Utility Knife

Phillips head screw driver

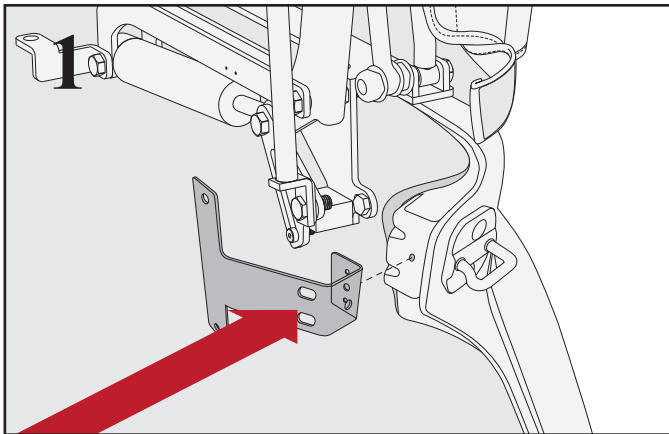
Wrench (1/4")

Pen/pencil

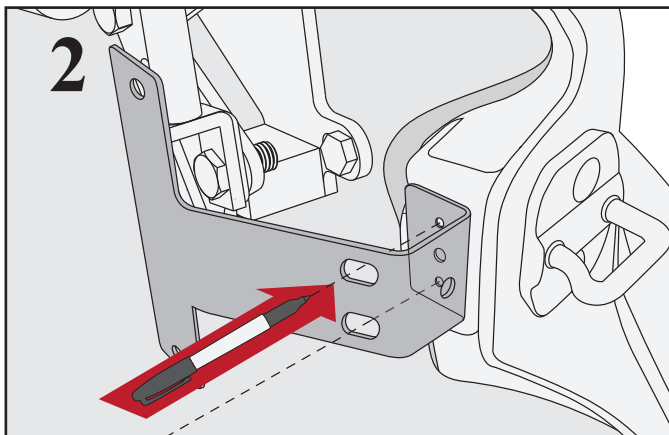
Drill (9/64")

**Hardware Kit - #7**

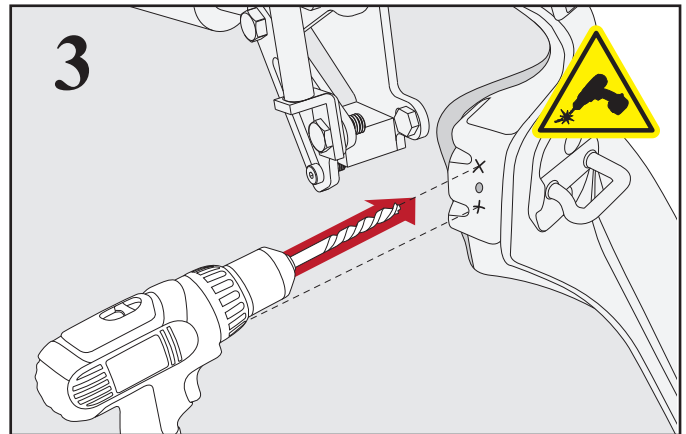
**NOTICE** Carefully read and understand all instructions before proceeding.



On the driver side, pull back carpet covering the door strike support bracket. Locate 3 holes found on the front guard bracket. Align the center hole with the guide hole found on the door strike support bracket as indicated above. Align the bracket holes vertically.



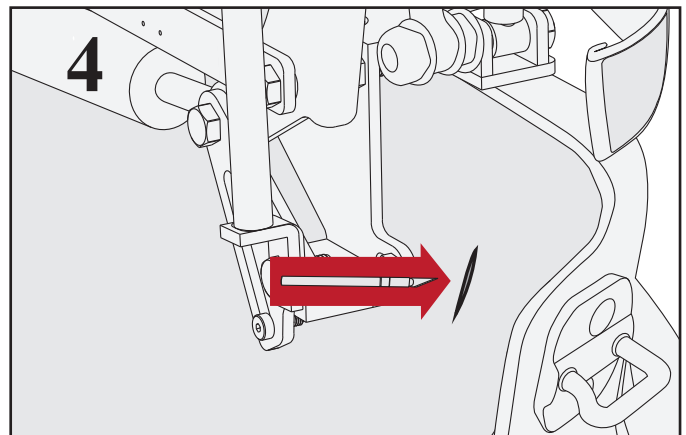
Mark the vehicle using bracket holes as a guide.



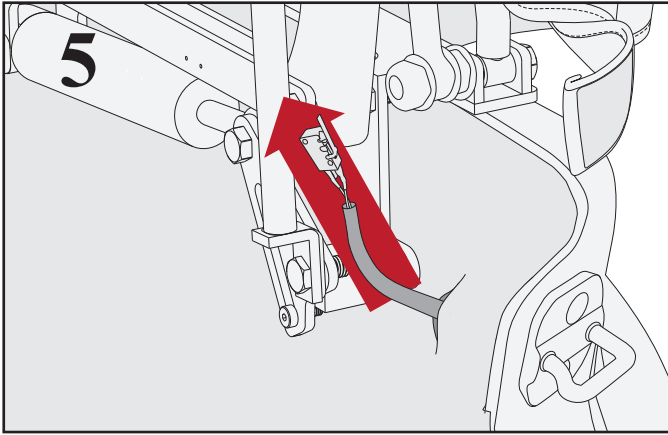
Drill into the door strike support bracket using a 9/64 drill bit.



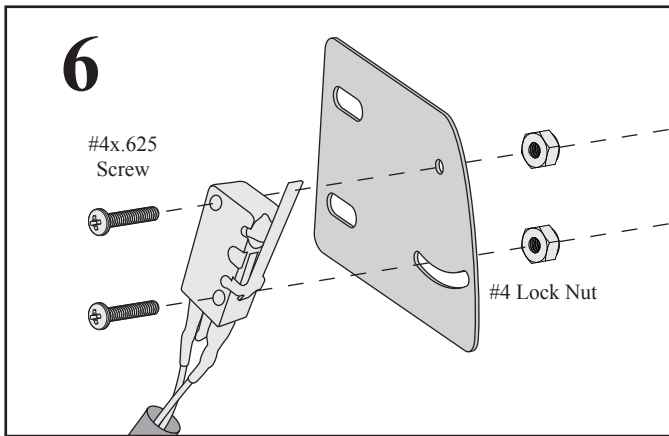
Cutting Hazard: Avoid excessive pressure & heat on bit. Use gloves and eye protection.



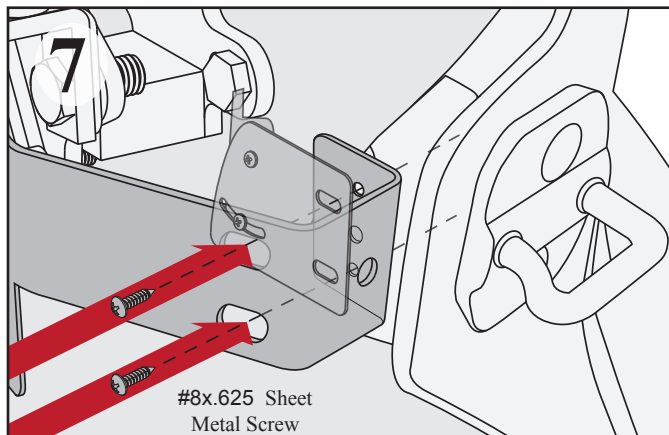
Re-position carpet over the door strike support bracket. Cut a small slit behind the door strike support bracket.



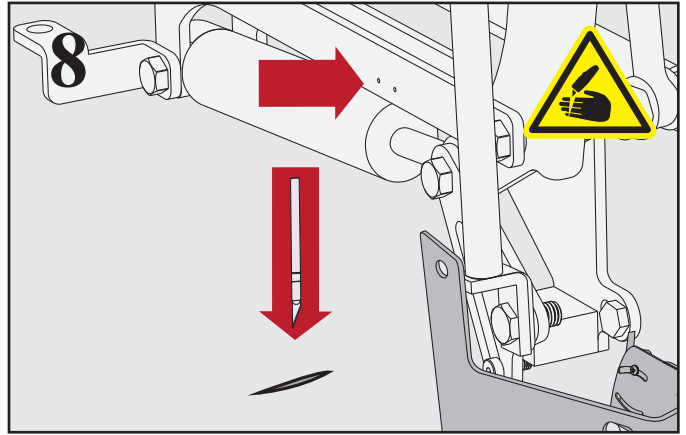
Find the limit switch with the BROWN wires (Pull back the wire sleeve on the limit switch to reveal the color of the wire). Route the BROWN wired limit switch underneath the carpet and through the previously cut slit.



Fasten the limit switch to the front limit switch bracket. Leave both screws semi-loose so adjustments can be made later.

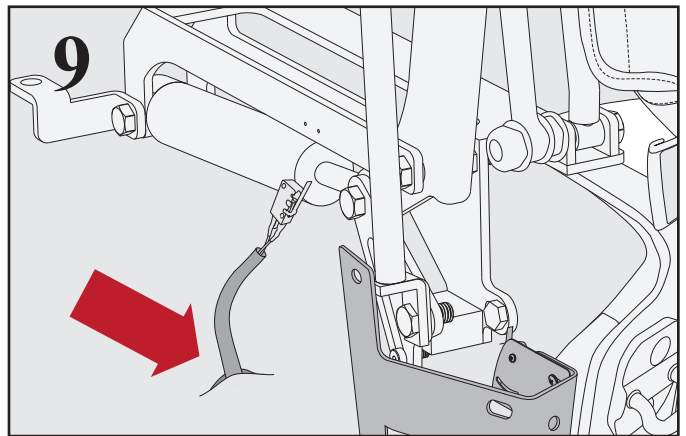


The limit switch should be positioned inside the front guard bracket as shown. Fasten both the front guard bracket and the front limit switch bracket to the drivers side of the vehicle.

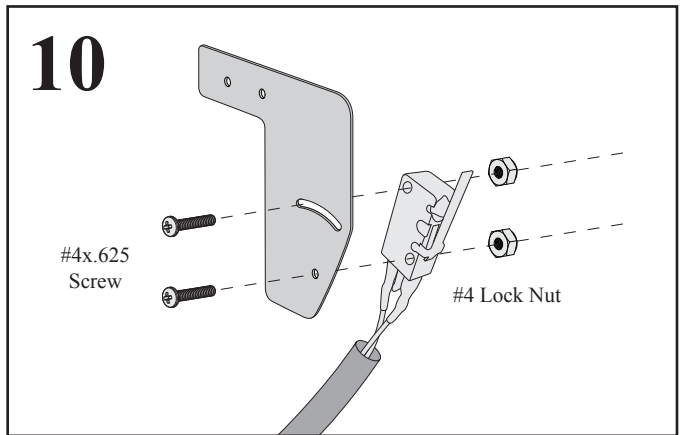


On the drivers side, cut a small slit in the carpet in line with the holes indicated above.

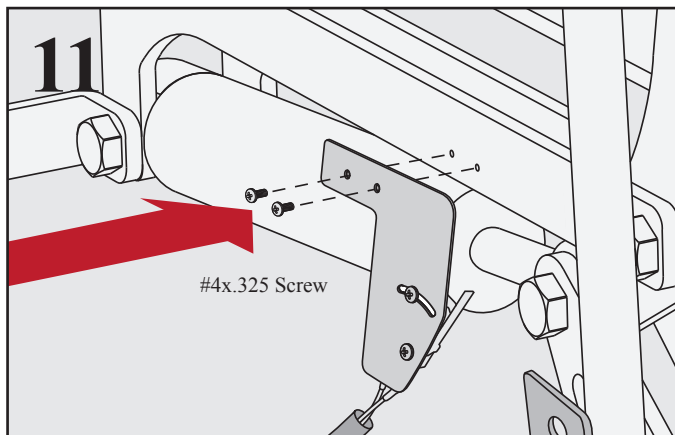
**CAUTION** Cutting/Sharp Edge Hazard: Cut carefully using gloves and eye protection.



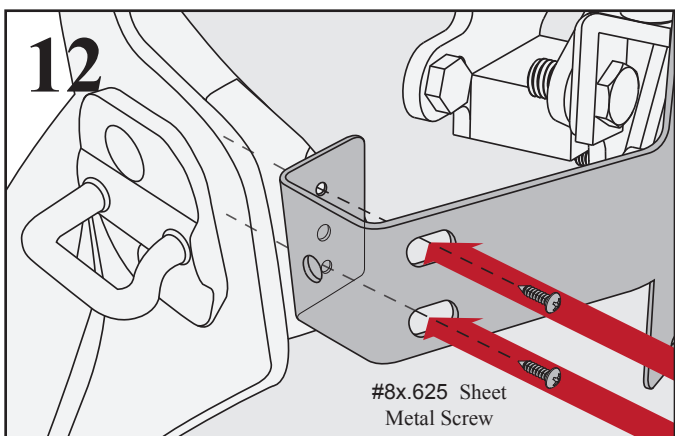
Find the limit switch with GRAY wires (Pull back the wire sleeve on the limit switch to reveal the color of the wire). Route the GRAY wired limit switch underneath the carpet and through the previously cut slit.



Fasten the limit switch to the rear limit switch bracket. Leave both screws semi-loose so adjustments can be made later.



Fasten the rear limit switch to the side arm assembly as shown.



Repeat steps 1-3 on the passenger side. Then fasten front guard bracket.

## SECTION - I - Adjusting the Limit Switches and Attaching the Rear Guards

**Section Description-** This section will illustrate how to adjust the limit switches and how to attach the rear guards.

### Tool Needed -

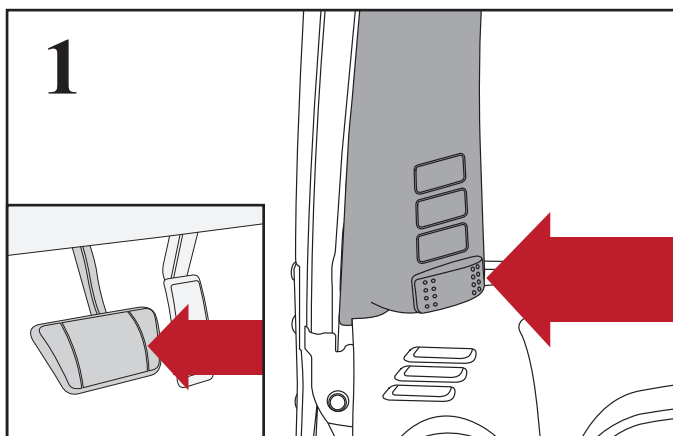
Phillips head screwdriver

Wrench (1/4")

### Hardware Kit - #7

**NOTICE** Carefully read and understand all instructions before proceeding.

1



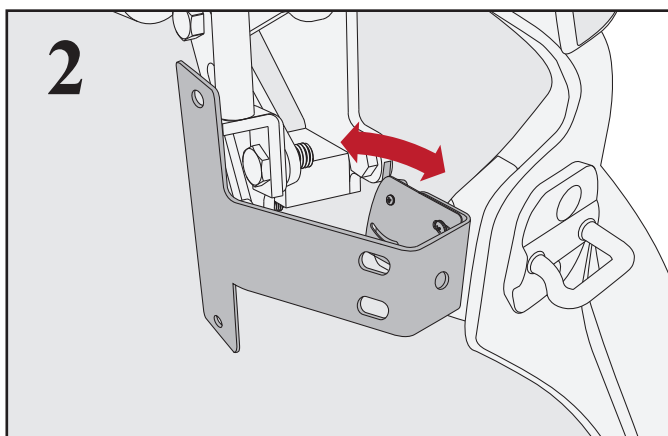
Test the Power Top to confirm that it is working correctly. **Please refer to the operational checklist found on page 3.**

Hold down the brake then press the **left side** of the switch to open the top. Press the **right side** of the switch to close the top.



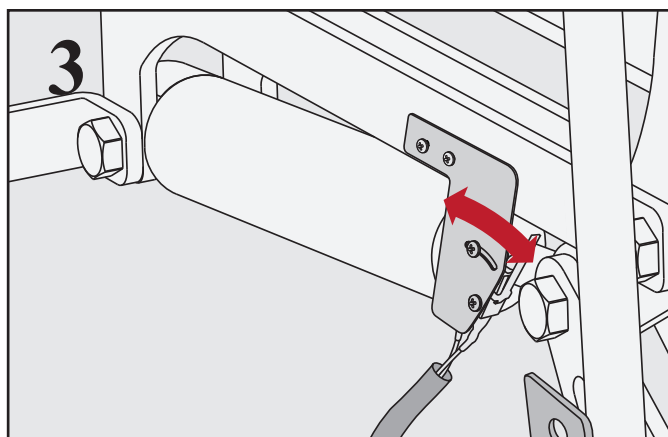
Please refer to page 1-2 for further information on safety.

2

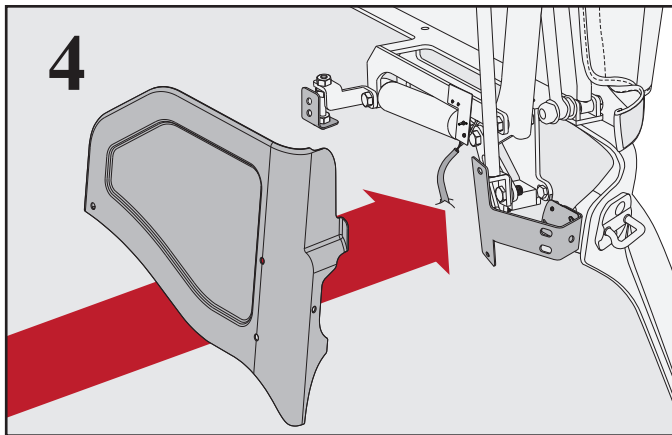


Adjust the front limit switch so the power top shuts off when the top is cycled down and open. Tighten fasteners once adjusted.

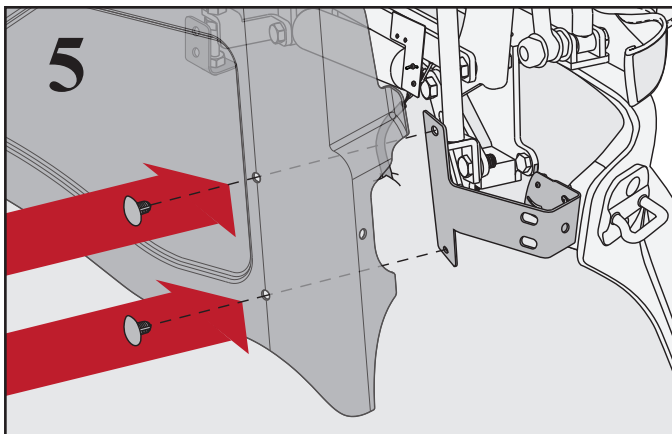
3



Adjust the rear limit switch so the power top shuts off when it is cycled up and closed. Tighten fasteners once adjusted.



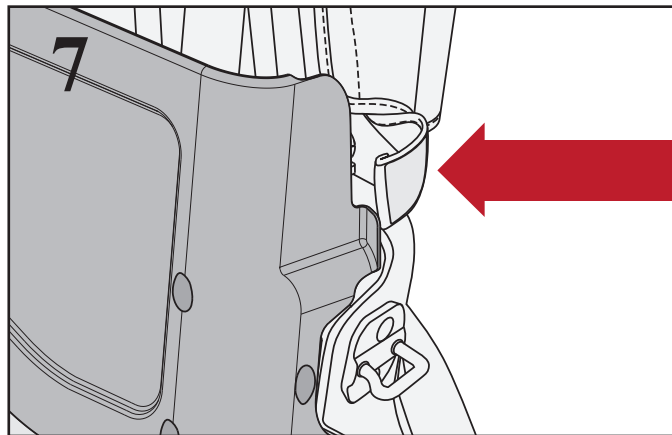
Place the rear guard over the side assembly.



Use tree fasteners to fasten the rear guard.



Use tree fasteners to fasten the rear guard.



With Power Top in the down and open position. Attach the Velcro® strip to the lower canvas flap. Remove the adhesive liner from the Velcro® strip. Pull the canvas flap with attached Velcro® strip to the inside of the rear guard so that the Velcro® strip adheres to the inside of the rear guard.

**NOTE:** Initial closing of the Power Top canvas may be difficult to close and latch. We recommend upon completion of installation that you close and latch the Power Top for at least 24 hours. This time will allow the Power Top to stretch and settle to the shape of the vehicle.

**Congratulations! Rugged Ridge® Power Top installation is now complete.**

After the Power Top has been closed and latched 24+ hours, we recommend opening, closing and latching the Power Top several times to ensure proper function. We also recommend a test drive.

Refer to the Operational Procedure found on page 3 on opening and closing the Power Top.

See trouble shooting on page 41 if problems occur.

At Rugged Ridge® we are dedicated to your satisfaction and your feedback is important to us. Please provide us with any feedback you may have regarding this or any other Rugged Ridge® product so we can continue to improve.

Contact Technical support if you need any assistance.  
 Telephone: 1-800-449-6649  
 Fax: 770-614-6069  
[Techsupport@omix-ada.com](mailto:Techsupport@omix-ada.com)

# Trouble Shooting

Problem	Possible Cause	Corrective Action
Difficulty latching Power Top	<ol style="list-style-type: none"> <li>1. Outside temperature is below 45 degrees F</li> <li>2. Canvas is too tight</li> <li>3. Set screws need to be adjusted</li> <li>4. Temperature change</li> </ol>	<ol style="list-style-type: none"> <li>1. Do not operate Power Top when outside temperature is below 45 degrees F.</li> <li>2. Adjust Bow A to tighten or loosen canvas. (Reference Section D: Step 8)</li> <li>3. The articulated joints found on the front of the side arm assembly might not be folding correctly. Adjust set screws so that the joint fold when opening and straighten out when closing the Power Top. (Reference Section F: Step 4)</li> <li>4. Cycle the top a couple of times so the canvas can adjust. Push the header into place then latch it.</li> </ol>
Canvas doesn't fold correctly	<ol style="list-style-type: none"> <li>1. Elastic straps need adjustment</li> </ol>	<ol style="list-style-type: none"> <li>1. Tighten or loosen the elastic straps connected to Bows B, C and D. (Reference Section G: Step 1-4)</li> </ol>
Noisy Operation	<ol style="list-style-type: none"> <li>1. No problem</li> <li>2. Obstructions</li> <li>3. Loose hardware</li> </ol>	<ol style="list-style-type: none"> <li>1. Some noise from the hydraulic system is normal.</li> <li>2. Check for any obstructions that may be rubbing, hitting or sliding against any moving parts of the Power Top.</li> <li>3. Check both assemblies for any loose hardware.</li> </ol>
Slowly opens and closes	<ol style="list-style-type: none"> <li>1. Obstructions</li> <li>2. Loose hardware</li> <li>3. Friction</li> <li>4. Adjust regulator valve</li> <li>5. Leak in hydraulics</li> </ol>	<ol style="list-style-type: none"> <li>1. Check for any obstructions that may be impeding on the movement of the Power Top.</li> <li>2. Check both assemblies for loose hardware.</li> <li>3. Lubricate all moving parts and joints.</li> <li>4. Adjust regulator valve found on the hydraulic motor. (Reference Section C: Step 14)</li> <li>5. Check the hydraulic motor, hydraulic pistons and hoses for any leaks.</li> </ol>
Power Top doesn't work	<ol style="list-style-type: none"> <li>1. Foot is not on break</li> <li>2. Limit switches</li> <li>3. Connections</li> <li>4. Vehicle battery is low</li> <li>5. Brake light switch is bad</li> </ol>	<ol style="list-style-type: none"> <li>1. Hold down break pedal during Power Top Operation. (Reference page 4)</li> <li>2. In down position, check and make sure front limit switch is NOT compressed. In up position, check and make sure rear limit switch is NOT compressed.</li> <li>3. Go to Section E, review all steps to verify all connections are correctly situated.</li> <li>4. Replace vehicle battery.</li> <li>5. If the brake lights do not turn on, the brake light switch located behind the brake might be faulty. Call Rugged Ridge® tech support to help verify.</li> </ol>
Power Top only cycles in one direction	<ol style="list-style-type: none"> <li>1. A-pillar switch is disconnected</li> <li>2. Relays might be bad</li> <li>3. Limit switches are reversed</li> </ol>	<ol style="list-style-type: none"> <li>1. Properly connect the A-pillar switch. (Reference Section E: Step 25)</li> <li>2. Swap the order of the 4 relays found next to the hydraulic motor to determine if one is bad. E.g. if the Power Top only cycles down, swapping the order might cause it to cycle up, verifying that a relay is bad.</li> <li>3. Reverse the limit switches.</li> </ol>



## Care and Maintenance of your Rugged Ridge® Power Top

**Side Assemblies, Bows, Arms:** Regularly clean all side assemblies, bows and arms. Regularly clean and lubricate all joints with WD-40®.

**Hydraulics:** The hydraulic motor should operate in an environment void of any liquid, dirt, dust, etc. Regularly clean around the hydraulic motor so it can operate in a clean and appropriate environment. Hydraulic cords must be kept clear of any obstructions. Hydraulic hoses should not be bent, twisted, pinched, folded, etc. so your Power Top can function correctly. Keep away any obstructions from your hydraulic cords that may puncture, cut, slice, etc.

**Fabric:** To preserve a quality fit, do not keep Power Top in a down and open position for extended periods of time. When cleaning the Power Top fabric should be washed with mild soap and warm water with a soft bristled brush. If a rip or tear occurs in the fabric of your canvas, repairs can be made with Bondex®. On the inside of your canvas iron on the Bondex® where the rip or tear occurred. For further information read the Bondex® instructions.

**Windows:** **Do not wash with any type of brush to avoid scratching.** Wash windows with a watered down cloth or sponge. **Do not clean windows while they are dry to avoid scratching.** Be careful cleaning in low temperatures, windows will become more susceptible to scratching and cracking. **Do not roll up windows in low temperatures to prevent cracking.** Window should be clean when rolled up.

**Zippers:** Keep zippers clean and lubricated to provide smooth operation. If a zipper happens to open after you have gone through the process of zipping up your Power Top, the slider may be defective but repairable. In this case, pull the slider to the end and open position. Using a pair of pliers carefully clamp down on your slider. Close your zipper using your previously damaged slider. If problem persists try clamping down on your slider more firmly then try closing your zipper again.

**Snap:** Snaps should be cleaned and lubricated with a silicone based product. Cleaning prevents snaps from sticking to studs. If a snap happens to stick to a stud use a screw driver or a similar tool to carefully pry it away to prevent any damage to your snaps or the canvas fabric.

**Water:** If water seeping through fabric seams occurs, use 3-M Scotchgard® on the inside to prevent further seeping. If a rip or tear occurs in the fabric of your canvas, repairs can be made with Bondex®. On the inside of your canvas iron on the Bondex® where the rip or tear occurred. For further information read the Bondex® instructions.

## **Limited Warranty for Rugged Ridge® Power Top**

Your Rugged Ridge® Power Top is covered by the following Limited Warranty provided exclusively by Omix-Ada, Inc. ("Omix"). This Limited Warranty is the only warranty made in connection with purchase. Omix neither assumes nor authorizes any vendor, retailer or other person or entity to assume for it any other obligation or liability in connection with this product or Limited Warranty.

### **What is Covered:**

Subject to the terms, exclusions and limitations herein and with respect only to Power Tops first sold in the United States, Omix warrants to the initial retail purchaser only that this Power Top product shall be free of defects in material and workmanship for a period of 3 years from date of purchase. All other warranties are hereby disclaimed, except to the extent prohibited by applicable law. Omix-Ada, Inc. reserves the rights to: (a.) require invoice or other proof your Power Top is within the term of this Limited Warranty as a condition of warranty service, (b.) make future revisions to this Limited Warranty without prior notice.

### **What is Not Covered:**

Your Rugged Ridge® Power Top Limited Warranty does not cover products or component parts Omix determines to have been damaged by or subjected to: (a.) installation damage, use contrary to instructions or operating checklist, alteration, modification or failure to maintain, (b.) normal wear & tear, cosmetic damage or damage from moisture or water immersion, (c.) Acts of God, accidents, misuse (including but not limited to improper battery voltages, misadjustment of linkages or hoops, missing or improperly adjusted switches) other negligence, inadequate mounting, failures or wear of other vehicle components, impact with vehicle(s), obstacles or other aspects of the environment, (d.) theft, vandalism or other intentional damage.

### **Remedy Limited to Repair/Replacement:**

The exclusive remedy provided hereunder shall, upon Omix's inspection and at Omix's option, be either repair or replacement of product or parts covered under this Limited Warranty. Customers requesting warranty consideration should first contact their retailer/installer and then Omix to obtain a Return Goods Authorization number (770/614-6101). All removal, shipping and installation costs are customer's responsibility.

### **Other Limitations - Exclusion of Damages - Your Rights Under State Law:**

In consideration of the purchase price paid, neither Omix nor any independent Rugged Ridge® distributor/installer are responsible for any time loss, rental costs, or for any incidental, consequential, punitive or other damages you may have or incur in connection with any part or product purchased. Your exclusive remedy hereunder for covered parts is repair/replacement as described above.

This Limited Warranty gives you specific rights. You may also have other rights that vary from state to state. For example, while all implied warranties are disclaimed herein, any implied warranty required by law is limited to the duration and is subject to the other terms of Limited Warranty described above. Some states do not allow limitations of how long an implied warranty lasts and /or do not allow the exclusion or limitation of incidental or consequential damages, so the limitations and exclusions herein may not apply to you.

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