

## Slipstream XLS / XL / EZ Installation Instructions

### Jeep Wrangler JK and JK Unlimited – 2007 to 2018

#### Overview

Installation instructions which apply specifically to the JK model are preceded by this symbol:



Installation instructions which apply specifically to the JK Unlimited (JKU) model are preceded by this symbol:



This installation can be accomplished by one person with basic tools and limited mechanical experience. In addition, representative installation videos are available on Diabolical's website: <http://www.diabolicalinc.com> and click on Installation Videos, or YouTube: [https://www.youtube.com/results?search\\_query=diabolical+slipstream](https://www.youtube.com/results?search_query=diabolical+slipstream).

This instruction assumes that both the hardtop and soft-top are removed from the Jeep.



Notes and helpful hints are indicated by the blue clipboard symbol.





Numbers in these brackets <> indicate the corresponding figure number: <9> refers to Figure 9.

If installing a Slipstream XL or XLS kit manufactured after 3-1-2018, the kit is upgraded to eliminate the rear "C" channel frame and flat tailgate skin. The updated kits now come with a bent tailgate skin that attaches to the rear of the removable top. This allows for instant access and more space without the rear frame in place. All kits for 2007-2010, 2011-2014, and 2018-2018 JK/JKU are shipped with the specific "multi-bend" side bracket that mounts at the right-rear of the Jeep cargo area to the right upper frame rail; which allows removal of the rear "C" channel frame. There are elongated holes in the tailgate skin to allow for adjustment at the tailgate for clearance. In the right-side-up position of the tailgate skin, it covers over the closed tailgate during topless use. In the upside down position, the tailgate skin's rear edge sits inside the groove in the tailgate when the tailgate is closed. This allows for complete coverage and no gaps when the hard or soft top is installed. The soft top cross bar still fits.

#### Required Tools

The following tools or alternative choices are the minimum required tools:

Tool	Size	Alternate Tool	Size
Sockets (SAE), 3/8" Drive	5/16, 7/16, 3/4	Open/Box Wrench	5/16, 7/16, 3/4
Sockets (mm), 3/8" Drive	10	Open/Box Wrench	10
Ratchet	3/8" drive, 6"		
Extension Bar	3/8" drive, 6"		
Phillips Screw Driver	#3		
Open-end Wrench	7/16  , 1 1/16 	Channel Lock or Crescent wrench	Accommodate 1 1/16 nut
Scissors	2" blade		
Utility Knife	2.5" blade	Exacto Knife, Razor	
Torx-key Drivers	T-30, T-40, T-45		
Masking Tape	1" wide		
Carpenters Pencil		Pen or Thin-line Marker	



A long 7/16 open wrench works best for tightening the rear fork plate nuts under the wing skin.



Channel Lock or Crescent wrench may be used in place of 1 1/16 open wrench

## Suggested Tools

Tool	Size	Alternate Tool	Size
Ruler	16"	Tape Measure	
Plastic Trim Removal, quantity 3 - 4	Small	Pry Bar (for hole alignment)	10"
Breaker Bar, Socket	18"		
Flexible Extension Bar	6"		
Loctite - Blue	Small tube		



A Folding Table and moving blanket/pad or beach towel on the table will help to organize parts and complete off-Jeep assembly steps.

## Pre-Work

Set up a project work space with either a longer folding table or two smaller (4') folding tables. Cover the table with a moving blanket or beach towel to limit potential product scratches as parts are assembled prior to installation on the Jeep. Use one end of the table to stage smaller parts and tools.

## Remove Product Packaging

Remove and unwrap all of the contents. Place the smaller pieces on a separate table or at one end of the table of the longer table. Be careful as some smaller parts are wrapped with their corresponding parts as shown [here](#).



Figure 1: Package Contents

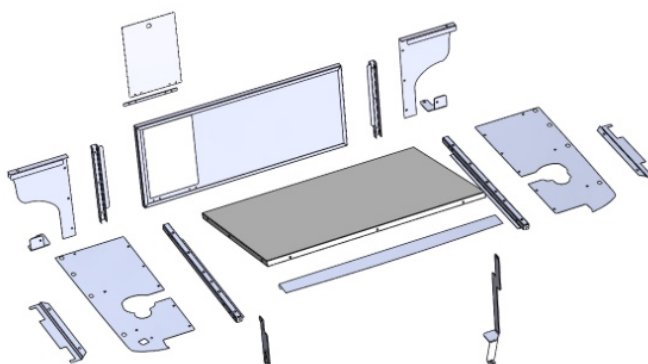


Figure 2: XLS Exploded View, One Piece Top



*Figure 3: Small Box Contents*



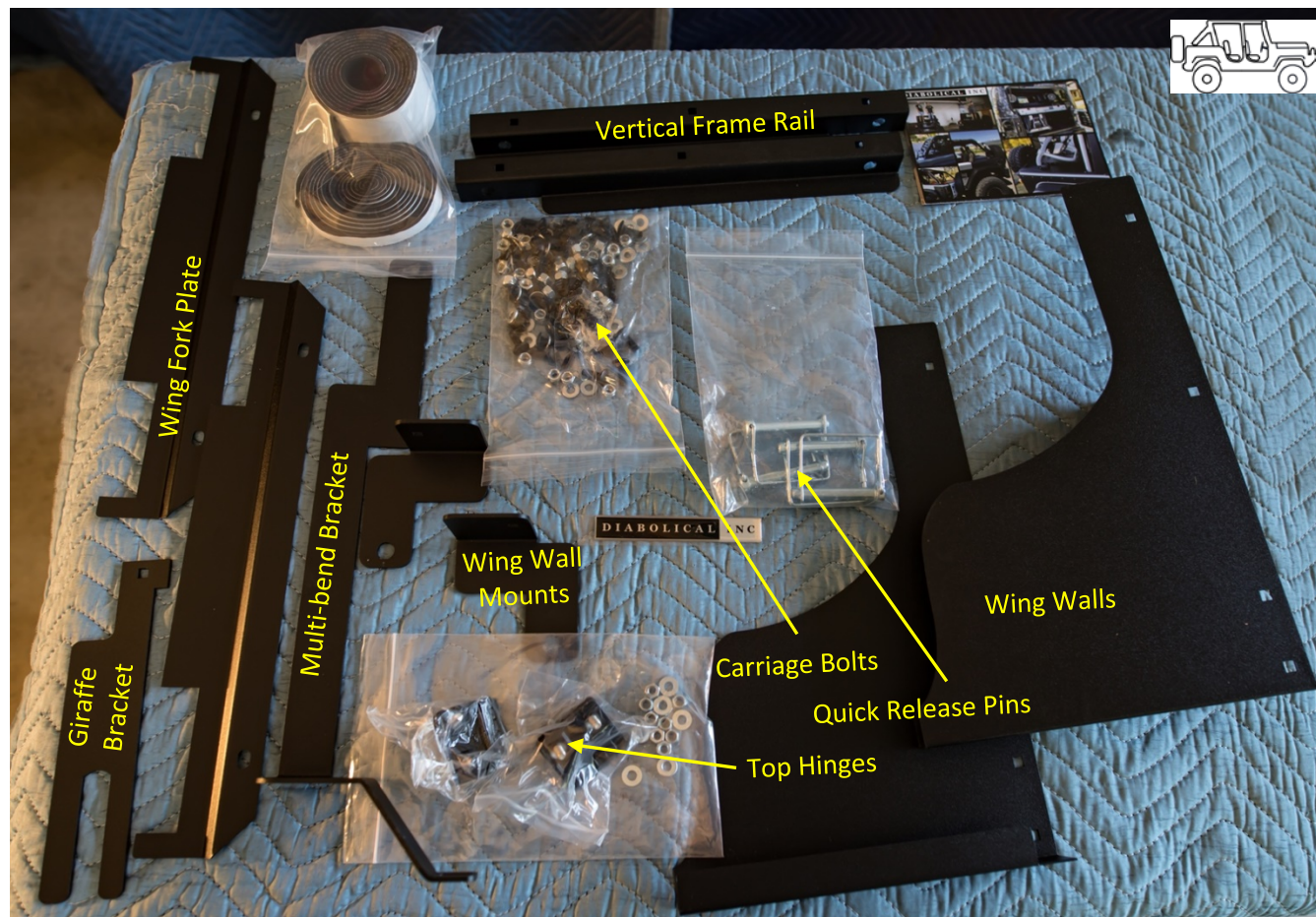


Figure 4: Large Box Contents

## Table-Top Assembly

### Access Panel



Start by assembling the access panel to the front removable panel. Refer to the picture below for the needed materials and tools.

Prior to assembling, prepare the following:

- 1" x 2" piece from the magnetic strip.
- Two (2) ½" x 2" pieces from the magnetic strip.
- Cut two (2) ½" strips of foam to fit the longer edge of the access door.
- Cut a ½" strip of foam to fit between the two ½" foam strips at the top of the access door opening.



Figure 5: Access Panel Assembly Tools and Materials

## Lock Assembly



The cam lever on the lock assembly must be flipped from an outward position to an inward position.

1. Using a #3 Phillips screwdriver, remove the short screw and cam lever <7>.



Be sure not to misplace or unseat the o-ring at the end of the tumbler assembly.



Figure 6: Center Panel Tools

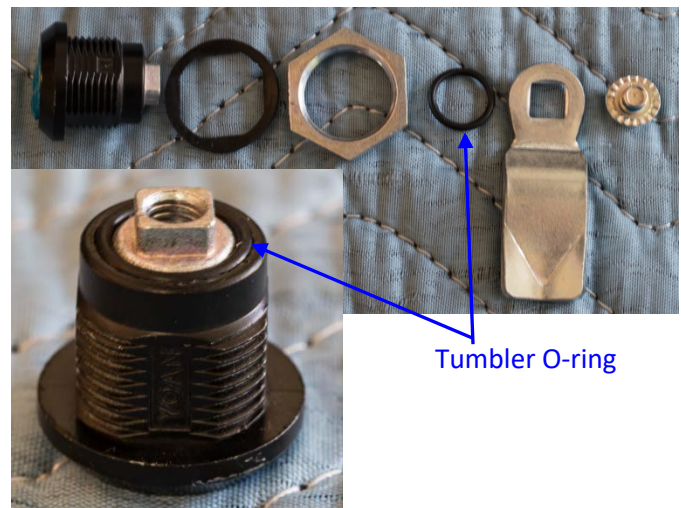


Figure 7: Lock Assembly Components



2. Position the cam lever on the assembly as shown.
  - Optional - Apply a drop of blue Loctite to the cam lever screw thread <8> before reinserting the screw. This helps to prevent the screw from becoming loose during normal use.
3. Tighten the screw.
4. Place the black gasket over the cam lever assembly and slide it up to the back of lock faceplate <9 & 10>.

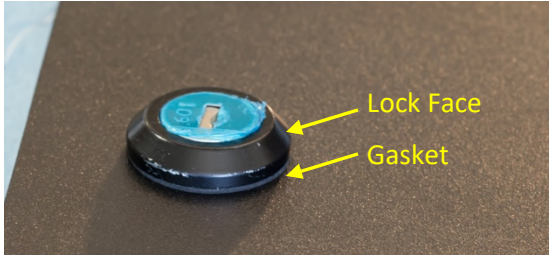


Figure 9: Lock / Panel Assembly -Exterior



Figure 8: Lock Re-assembly

5. Insert the lock assembly into the access panel from the front with the cam lever parallel to the top of the door (unlocked position), facing the center of the vehicle <10 & 11>.



Insert and turn the supplied key to verify correct orientation.

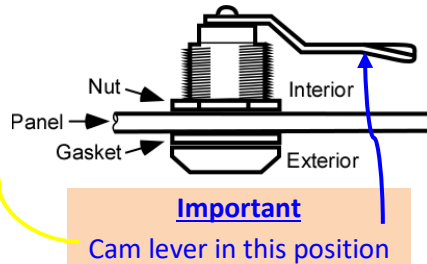


Figure 10: Lock / Panel Assembly -Interior



Figure 11: Lock Orientation & Tightening

6. Install and the serrated lock nut and tighten with a 1 1/16" open wrench (or channel lock or crescent wrench) <11>.



Take care not to over-tighten the lock nut.

## Center Wall Panel and Access Panel Assembly



This process is the same for both versions of center wall panels. The only difference is the size and location of the two access panel doors. The XLS assembly is shown here.

Place the center wall panel on the table, flat-side up.

1. Align the Access Panel Spacer over the four pre-drilled holes of the center wall panel <12>.
2. Insert the two small hinges through the spacer and panel with the pivot facing the panel hole.
3. Loosely place a 5/16 washer and 5/16 nylon lock nut, nylon side up, from the



Figure 12: Panel Door Spacer & Hinge Assembly

underside of the panel on each of the four hinge bolts.

4. Place the access door panel on the hinges, ensuring that the lock cam lever will pass through the center wall panel opening.
5. Place a 5/16 washer and 5/16 nylon lock nut, nylon side up, from the inside of the panel on each of the four hinge bolts.
6. Tighten all eight nuts with a 5/16 wrench or socket <13>.



Figure 13: Access Panel Hinge

7. Align each of the two (2) ½" x 14" strips of foam to the top and outer long edge of the panel opening on the panel door side.
8. Peel back a few inches of the white tape cover and install along the edge as shown <14>.
9. Align each of the two (2) ½" x 2" strips of magnetic tape to the top and outer long edge of the panel opening and outer edge of the foam tape as shown.
10. Peel back the white tape cover and install along the edge as shown.
11. Align the ½" x 9 ¾" strip of foam to the top and outer long edge of the panel opening.



Figure 14: Long Edge Access Panel Foam Position

12. Peel back the white tape cover and install along the edge <15>.
13. Close the panel door and turn the assembly over to expose the unlocked lock cam lever.
14. Turn the key lock to ensure the cam lever passes over the panel edge, then place in the unlocked position again.



Figure 15: Short Edge Access Panel Foam Position

15. Place the 1" x 2" magnetic strip such that the short edge aligns with the side of the lock farthest from the cam lever <16>.
  - a. This may be a tight fit. Push in on outer access panel door to aid in checking magnet alignment.
16. Rotate the lock to the lock position and verify lock alignment with the magnet. Loosening the phillips screw a ¼ turn may aid in ease of verification.
17. Mark the short edge of the magnet strip on the panel <17>.
18. Unlock the panel.



Figure 16: Magnet & Cam Lever Alignment



19. Remove the white tape backing on the magnet and place the strip at the marked location and aligned openings bottom edge.

20. Tighten the phillips screw on the lock.



Locking the panel at this stage will be very tight. With the key inserted in the lock, use the 1 1/16 wrench or channel locks to operate the lock from the cam lever a few times. This action will wear a small amount of the magnetic strip away to allow the lock to operate freely.



Figure 17: Magnet Alignment

## Wing Wall Assembly

Assemble the wing walls to the vertical frame rails. Refer to the picture below for the needed materials and tools.

### XLS Model



Prior to assembling, prepare the following:

- Using scissors, cut two (2) ½" x 12.5" strips of foam.
  - 7/16 socket
1. Align each of the two (2) ½" x 12.5" strips of foam to the top and inner long edge of the frame rail flange as shown in <18>.
  2. Peel back a few inches of the white tape cover and install along the inside edge as shown.
  3. Place the passenger side wing wall on top of the passenger side vertical frame rail. Insert a carriage bolt through the skin into each of the two middle square holes as shown <19>.
  4. Turn the assembly over. Add a 7/16 flat washer and 7/16 nylon lock nut to both bolts. Tighten both nuts with a 7/16 socket.
  5. Repeat for the driver's side wing wall.

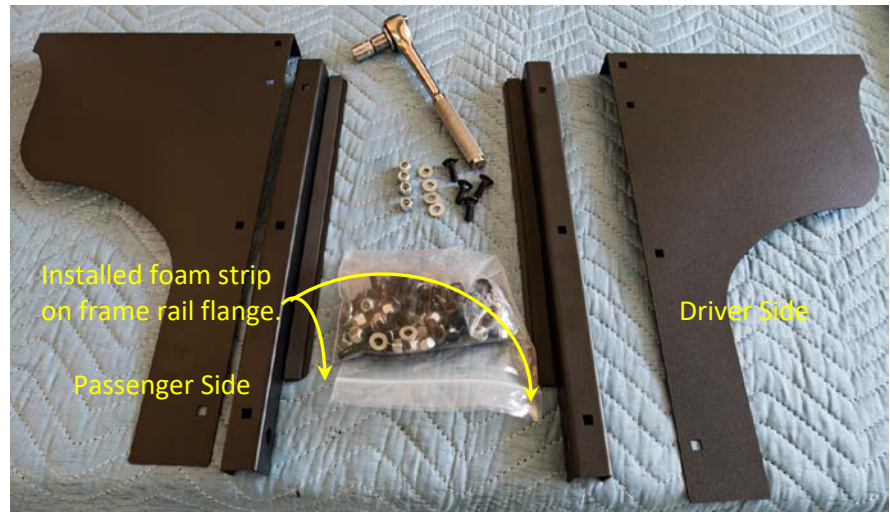


Figure 18: Wing Wall Components & Tools

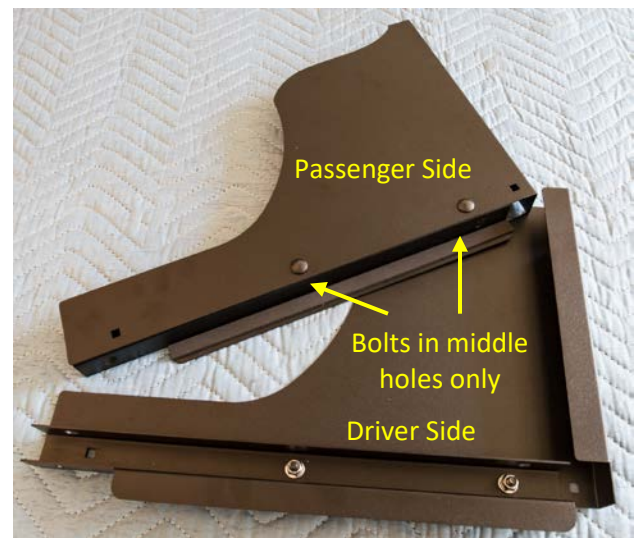


Figure 19: Assembled Wing Walls



## XL Model



Prior to assembling, prepare the following:

- Using scissors, cut two (2) ½" x 12.5" strips of foam.
  - 7/16 socket
6. Lay the wing walls and center panel on the tabletop with the bent edge facing up (back side of panels, once installed).
  7. Place a patch plate over one of the wing walls and center wall panel. Align the patch plate over the middle two square holes on the wing wall and center wall panel.
  8. Insert a carriage bolt from the underside (front) through the skin into each of the two middle square holes and through the corresponding patch plate as shown <20>.
  9. Add a 7/16 flat washer and 7/16 nylon lock nut to both bolts. Tighten both nuts with a 7/16 socket.
  10. Insert a carriage bolt from the underside (front) through the center panel into each of the two middle square holes and through the corresponding patch plate as shown <20>.
  11. Add a 7/16 flat washer and 7/16 nylon lock nut to both bolts. Tighten both nuts with a 7/16 socket.
  12. Repeat for the driver's side wing wall.

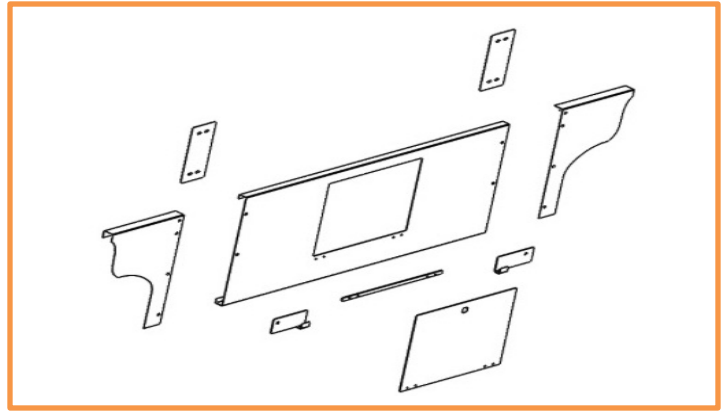


Figure 20: Center Panel & Wing Wall Assembly

## Wing Skin to Frame Assembly

Assemble the wing walls to the vertical frame rails.

Prior to assembling, prepare the following:

- Using scissors, cut two (2) 2" x 29.5" strips of foam.
- Using scissors, cut two (2) 2" x 6" strips of foam.
- 7/16 socket
- Utility Knife / razor

Lay the wing skins out on the table in the same orientation as they will be installed on the Jeep to ensure proper identification of components <21>.

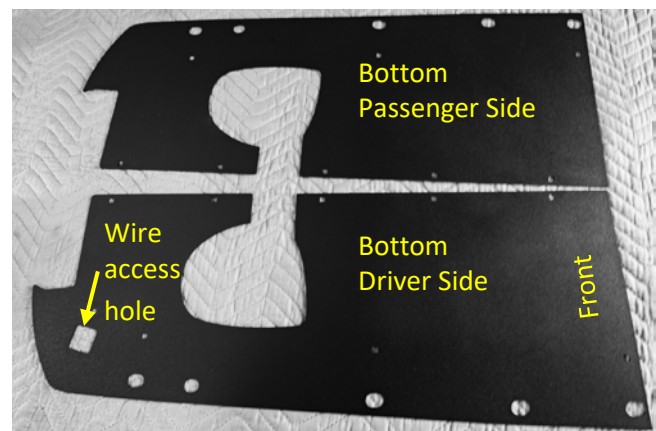
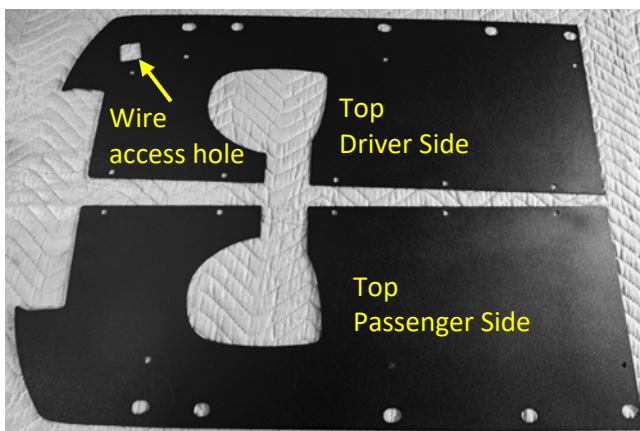


Figure 21: Wing Skin Orientation Identification

1. Turn the skins over to expose the bottom side.
2. Lay the 2" x 29.5" foam strip, white side down, along the five-hole outer edge of the wing skin with edge to edge alignment at the front of the skin.



The foam strips protect the Jeep body and Slipstream from rubbing against each other.

3. At the back corner, trim ~30° from the outer corner toward the front <22>.
4. Lay the 6" foam strip, white side down, along the back-corner outer edge of the wing skin with edge to edge alignment at the back of the skin.
5. At the back corner, trim ~50° from the outer corner toward the front to match the angle of long-edge foam <22>.
6. Starting at the front corner, peel back a few inches of the white tape cover on the 29.5" foam strip and install along the outside edge as shown. Follow the contour of the skin edge while applying the foam strip. The back corner may have a little overhang which can be trimmed later <23>.
7. Starting at the long edge corner where long foam strip was just installed, peel back the white tape cover on the 6" foam strip and install along the outside edge as shown by matching the angle cuts first. Follow the contour of the skin edge while applying the foam strip. There may be a little overhang which can be trimmed later.
8. Repeat for the other skin.
9. Turn the skin over (top side up). Slide the skin over the table edge enough to access holes from the underside.
10. Using a utility knife or razor, carefully trim the foam from each covered hole by poking the knife through the hole from the underside up <24>.

### Warning

Be careful when using sharp and pointy tools which may cause personal injury or damage materials if used inappropriately.

11. Trim any foam which extends past the skin edge.
12. Install the wire closeout square in the desired open or closed position with a carriage bolt, 7/16 washer, 7/16 nylon lock nut and tighten <25>.

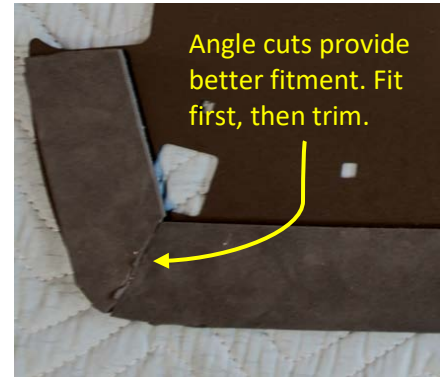


Figure 22: Wing Skin Angle Cuts

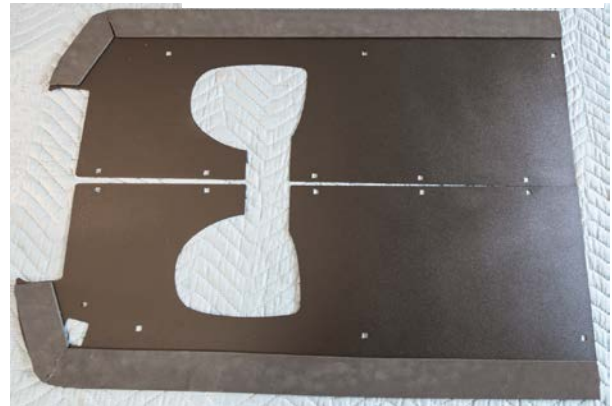


Figure 23: Wing Skin Foam



Figure 24: Wing Skin Hole Trimming

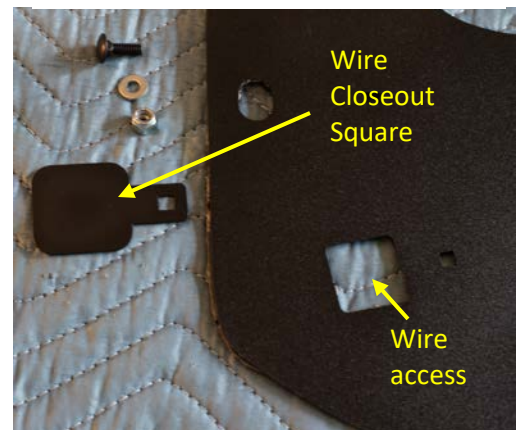


Figure 25: Wire Closeout Square



## Wing Fork Plates

13. With the bottom of wing skin facing up, orient the wing fork plate with the notches toward the foam edge and over the square holes on the wing skin <26>.
14. Insert two carriage bolts, from the skin top through the wing fork plate. Install a 7/16 flat washer and 7/16 nylon lock nut on each bolt.
15. Run the lock nuts on the bolts until approximately 2/3 on the bolt. This helps with the installation on the Jeep.
16. Repeat for the other wing skin.

## Frame Rail Preparation

Assemble the wing walls to the vertical frame rails. Refer to the picture below for the needed materials and tools.

Prior to assembling, prepare the following:

- Using scissors, cut two (2) ½" x 24.75" strips of foam.

Install the foam strips

1. Align each of the two (2) ½" x 24.75" strips of foam to the top and inner long edge of the frame rail flange as shown in the picture to the right.
2. Peel back a few inches of the white tape cover and install along the inside edge adjacent to the vertical wall <27>.

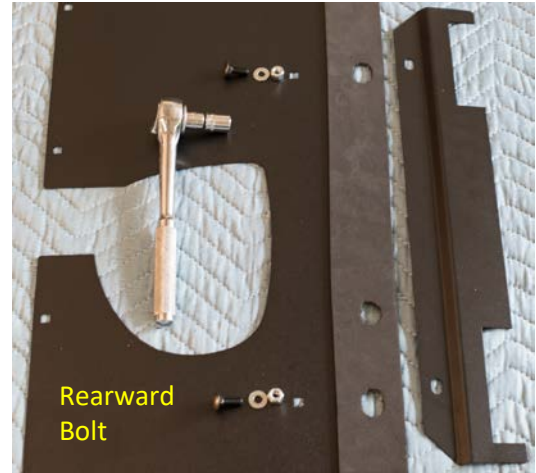


Figure 26: Wire Fork Plate



Figure 27: Installed Foam Strips On Upper Frame Rails

## Jeep Integration

For the following set of instructions, do not tighten the hardware until instructed specifically to do so. Some individual components require flexible movement of the system until all components are assembled to ensure a proper fit.

## Wing Wall Installation

Prior to assembling, prepare the following:



- ¾ socket.
- 18" breaker bar.
- 7/16 socket.



If the Jeep is equipped with a removable carpet cover or bed liner, temporarily remove or set aside those items as they will interfere with the fitment of the wing walls and front center wall panel.

1. Remove the factory ¾" nut from the rearward-outermost rear seat mount on both the driver and passenger sides <28>.
2. Place the wing wall mounts over the ¾" bolt <29>.



Figure 28: JKU Rear Seat Bolt Removal

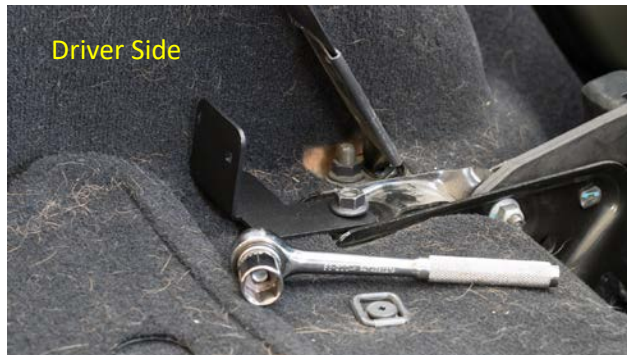


Figure 29: JKU Rear Seat Bolt Removal



The raised flange should be nearest the outside Jeep wall and over the carpet.

3. Place the factory ¾" nut loosely on the exposed bolt.
4. Place the driver's side wing wall behind the wing wall bracket and insert a carriage bolt through the mount and wing wall. Loosely place a 7/16 flat washer and 7/16 nylon lock nut on the bolt <30>.
5. Repeat for the passenger's side <30>.





Figure 30: JKU Wing Wall Installation

Prior to assembling, prepare the following:

- 7/16 socket.
  - ☐ If the Jeep is equipped with a removable carpet cover or bed liner, temporarily remove or set aside those items as they will interfere with the fitment of the wing walls and front center wall panel.
1. Locate the factory rear seat hoop on both the driver and passenger sides <31>.
  2. Identify the drivers' side and passengers' side wing wall brackets. The drivers' side bracket is longer than the passengers' side <32>.
  3. Hook each of the wing wall brackets to the hoop <33>.



Figure 31: JK Seat Hoop Location

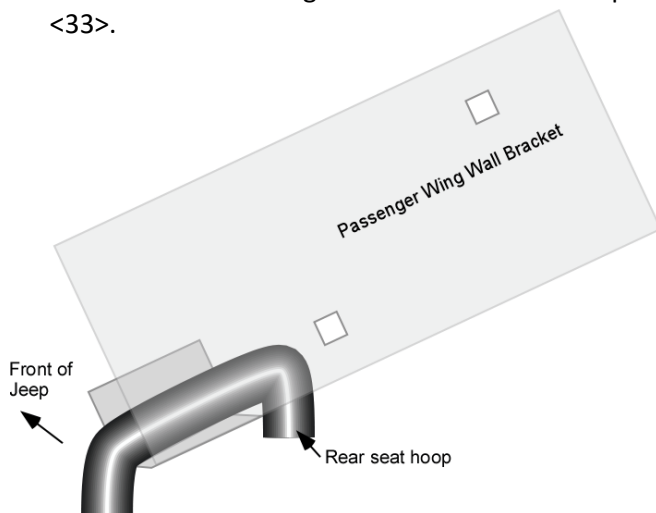


Figure 33: JK Wing Wall Bracket Installation



Figure 32: JK Wing Wall Bracket Identification

## Center Panel Installation

### XLS

Prior to assembling, prepare the following:



- Four (4) Quick Release Pins

Placement of the removable panel may not seem to fit, but it will with appropriate movement of the wing walls; hence the reasoning for leaving that hardware loose.

1. With the access door in the closed and locked, position and the rear passenger seats folded down, lay the removable panel on its face between the wing walls.
2. Insert a quick release pin at the bottom corners of the panel and lower wing walls.
3. Rotate the panel up to a closed position. This may entail pulling the top of the wing walls closer to the body of the Jeep, as the carpet places minor pressure against the wing walls.
4. Insert a quick release pin in each of the upper corners of the panel and upper wing walls. The foam on vertical rails may apply some resistance to full closure, however, this is intentional.



Figure 34: JK Wing Wall Bracket Installation – Leave Loose

### XL

Prior to assembling, prepare the following:



- 7/16 socket.
  - 6" extender.
  - Four (4) carriage bolts/7/16 flat washers/7/16 nylon lock nuts
1. With the access door in the closed and locked, position the center panel wall assembly behind the floor brackets which are hooked to the floor hoops <35>.
  2. Insert a carriage bolt from the front through the



Figure 35: JK Center Panel Installation – Leave Loose



wing wall bracket and the wing wall at the bottom corners of the panel and lower wing walls <>. Attach a 7/16 flat washer and 7/16 nylon lock nut from the back side. Do not tighten.

3. Repeat for the other side.

## Giraffe Bracket Installation

Prior to assembling, prepare the following:



- T-45 Torx key.
- Two (2) strips 1" x 6" masking tape.
- Pencil or pen.

Though the picture below shows the masking tape right up against the tailgate latch, it is better to leave about a half inch gap between the tape and the latch.

1. Place a strip of masking tape half an inch away from the latch bracket on each side.
2. Place factory alignment marks on each side of the latch to ensure proper tailgate operation after installation of the cover assembly <36>.
3. Using the T-45 Torx key, loosen (do not remove) the latch bolts.



Figure 36: Tailgate Latch Alignment Marks

4. There is a spacer plate behind the latch plate. The giraffe bracket installs between the latch and spacer plates.
4. Insert the giraffe bracket between the latch and spacer plates with the bolt hole 'head' facing forward toward the front of the Jeep <37>.
5. Do not tighten the latch bolts.


-  In the ensuing steps, it will appear that the frame rails are not long enough to reach giraffe and multiband brackets. Once the frame is appropriately 'pulled together', their alignment will become apparent and appropriate. This is why the wing wall mount nuts at the rear seat mounts were not tightened earlier <30>.



Figure 37: Giraffe Bracket On Tailgate Latch

## Multi-bend Bracket Installation

Prior to assembling, prepare the following:



- T-30 Torx key.

There are three versions of this bracket based on the Jeep model year <38>:

2007-2010 Wranglers require that the bracket be installed behind the removable subwoofer. It bolts to floor D-ring at the tailgate end using factory hardware <38A>.

2011-2014 Wranglers with the built-in subwoofer utilize a straight vertical bracket. It bolts to floor D-ring at the tailgate end using factory hardware alongside the subwoofer <38B>.

2011-2014 Wranglers without the built-in subwoofer or a 2015 to present Wrangler utilize a multi-bend bracket. It bolts to floor D-ring at the tailgate end using factory hardware <38C>.

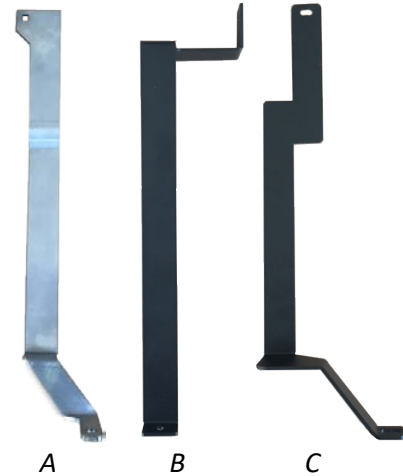


Figure 38: Multi-bend Bracket Variations

The multi-bend bracket installs at the right rear corner of the Jeep.

1. Using a T-30 Torx key, remove the factory tie-down bolt and tie-down ring.
2. Place the multi-bend bracket against the Jeep wall and in the tie-down ring well.
3. Reinsert the tie-down ring and bolt through the multi-bend bracket. Do not tighten.

## Frame Rail Installation



Prior to assembling, prepare the following:

- 7/16 socket.
- 6" inch extender or flexible extender.
- 7/16 open end wrench.
- Four (4) x carriage bolts, 7/16 washers, 7/16 nylon lock nuts.

The frame rails have a horizontal flange that runs along the inside to carry the top cover. The end with the larger flange gap must be oriented toward the front of the Jeep to allow the top cover to open properly. There are two quick release pin holes at this end.

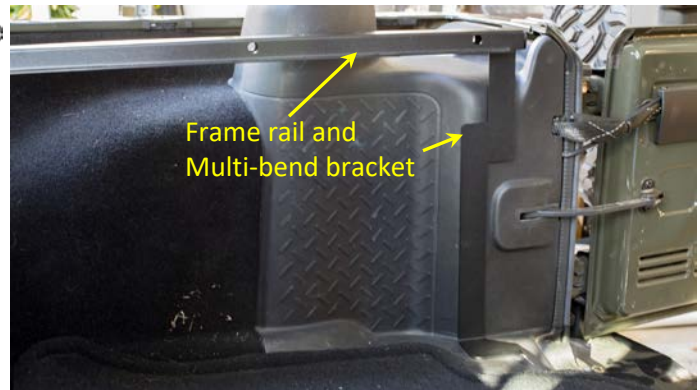


Figure 39: Passenger Frame Rail Installation

1. On the passenger side, insert the frame rail into the top of the wing wall vertical rail <40>.
2. From the front of the wing wall, insert a carriage bolt and start a 7/16 flat washer and 7/16 nylon lock nut. Leave them very loose.
3. At the multi-bend bracket, raise and pull the frame rail to the multi-bend bracket. The frame rail aligns to the left side of the multi-bend bracket <39, 42>.
4. Insert a carriage bolt through the multi-bend bracket and the frame rail. The nut should be loose enough to allow

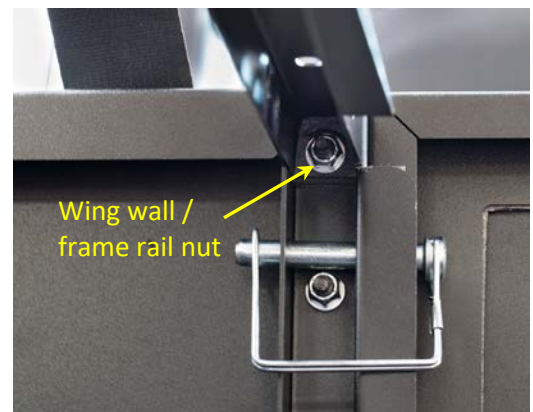


Figure 40: Upper Frame Rail To Wing Wall



final adjustment of the frame, but otherwise seat the carriage bolt.

5. Follow the same process for the driver's side to the giraffe bracket <39, 41>.
6. Using a 7/16 socket and extender, fully tighten the top wing wall / frame rail nuts. Do not tighten the nuts at the multi-bend bracket or giraffe bracket.

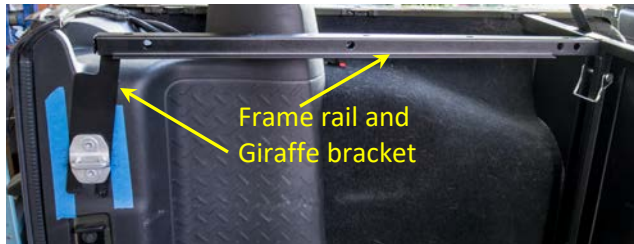
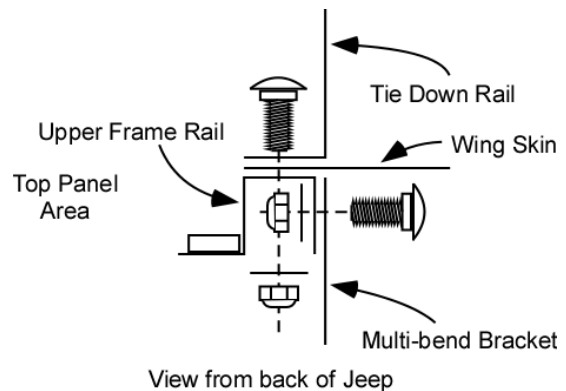


Figure 41: Multi-bend Bracket Installation



View from back of Jeep

Figure 42: Multi-bend Bracket Installation

## Wing Skin and Tie-down Rail Installation

Prior to assembling, prepare the following:



- Six (6) factory hardtop bolts
- Six (6) black fender washers (supplied hardware)
- 7/16 socket.
- T-40 Torx key.
- 7/16 open end wrench.
- Twelve (12) x carriage bolts, 7/16 washers, 7/16 nylon lock nuts.
- Tape.

Placement of the wing skins provides primary alignment of the entire assembly, but there will still need to be some potential final adjustment once the top cover is installed.

1. Use tape to mark the location of factory hardtop holes and floating nut-plates. Doing so will aid in preventing the nut-plates from moving during the wing skin installation.
2. Place the passenger wing skin on the Jeep by turning 90° to the right from the normal orientation, sliding the skin past the roll bar at the roll bar notch, then rotating the skin 90° to the left <43>.
3. Lift the frame side sufficiently to allow the wing skin fork plate to fall below the Jeep body lip.
4. Slide the wing skin in place, ensuring the wing skin fork plate locates beneath the body lip.



This step can be aided starting toward the front of the skin where carriage bolt was set slightly looser than the rear bolt. Also, the back side of a pencil or other non-scratching utensil can be inserted through cover's hardtop alignment hole (circled in the picture) to press the wing fork plate down while sliding the wing skin in place <43A in 43>.

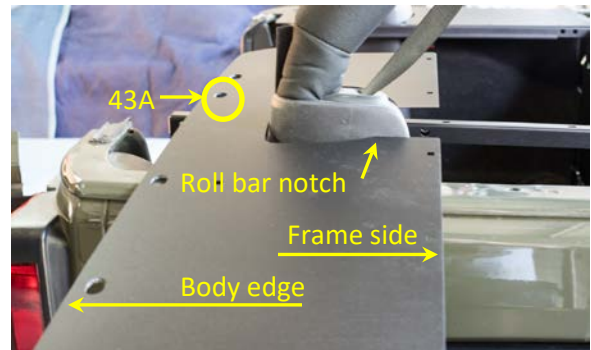


Figure 43: Wing Skin Installation

- ☐ Take care not to move the floating factory nut bars in the Jeep body lip. Tape may aid in keeping them in original location. However, the bars can be subsequently relocated with a pointy tool such as a smaller phillips screwdriver <44>.

5. Repeat for the driver's side.
6. Once the wing skin is properly seated, place a supplied black fender washer over the factory hardtop mounting holes and insert the factory bolt (six places) until they touch the fender washer <44>. Do not tighten.

- ☐ The rear wing fork plate nuts are very difficult to get to with an open end 7/16 wrench, particularly if the wrench isn't very long. However, the wing skin can be lifted a couple of inches from the frame side at this point to this one nut up on each side, or it can be tightened later with the rest of the frame components (which will ease alignment settings). This is easier to accomplish on 2007-2010 Jeeps. 2011-2018 Jeeps have an obstructive factory plastic housing at the rear nut location, making it difficult to tighten (1/8<sup>th</sup> turn at a time) <45>.

7. Install a carriage bolt from the wing skin through the top hole into the wing wall with a 7/16 washer, and 7/16 nylon lock nut <46>. Tighten.



Figure 46: Wing Skin Filler Plate – Top View



Figure 44: Black Fender Washer

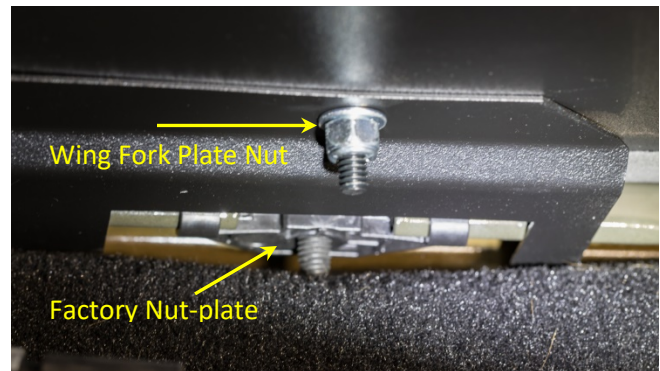


Figure 45: Wing Fork Plate Nuts

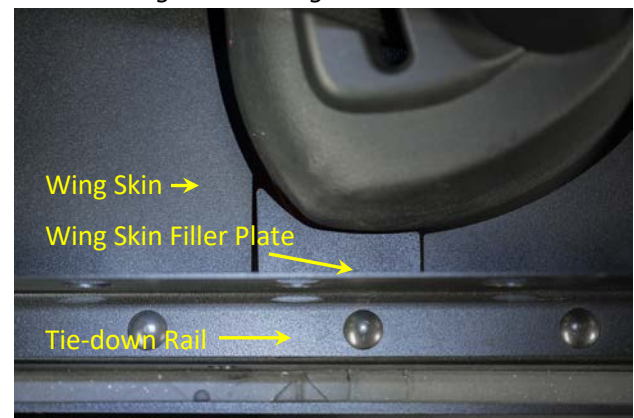


Figure 47: Wing Skin Filler Plate – Top View

8. Place a tie-down bar with clasp holes to the outside of the Jeep. Ensure that the third hole from the back aligns with the wing skin roll bar filler plate location.
9. Insert a carriage bolt through the tie-down bar, wing skin, and frame rail at the back. This will likely require pulling the three pieces together. Install a 7/16 washer and 7/16 nylon lock nut. Do not tighten.
10. Do the same for the front tie-bar mount point.
11. Slide the wing skin filler plate in place between the tie-down bar and the frame rail <47>. The longer curved side wraps to the front of the Jeep. Insert a carriage bolt through the tie-down bar, wing skin filler plate, and frame rail. Install a 7/16 washer and 7/16 nylon lock nut. Do not tighten.

12. Insert the remaining two carriage bolts through the tie-down bar, wing skin, and frame rail. Install a 7/16 washer and 7/16 nylon lock nut on both bolts <48>. Do not tighten.
13. Repeat for the opposite side. Do not tighten.



Figure 48: Wing Skin, Tie-down Bar, & Frame Rail

## Top Cover Installation

Prior to assembling, prepare the following:



- 10mm socket
- 7/16 socket.
- T-40 Torx key.
- T-45 Torx key.
- 7/16 open end wrench.
- Plastic trim removal tools or small pry bar.
- Four (4) x quick release pins.

See Accessories drawings at the end of this instruction for top cover variants.

At this point, there are two choices for installing the tailgate skin: either above the tailgate, where it will interfere with the glass door of the hardtop, or below the tailgate top, where it is covered by the tailgate lip and allows the hardtop glass to close without interference.

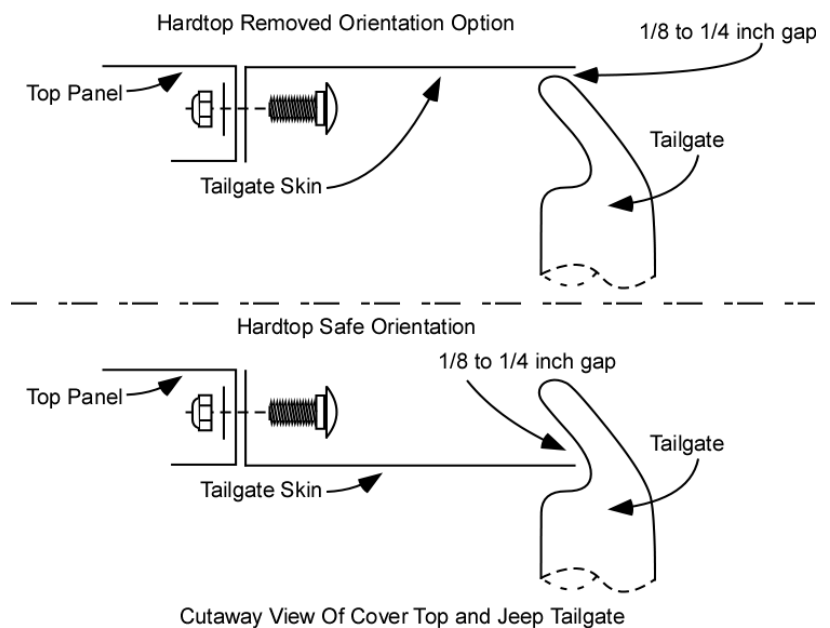


Figure 49: Tailgate Skin Orientation Choices

1. Determine the desired tailgate skin orientation <49>.
2. Lay the smaller top panel upside-down on the table.
3. Select the panel edge nearest the quick release pin holes. Attach the tailgate skin in the desired orientation using three carriage bolts, flat washers, and 7/16 nylon lock nuts; keeping in mind that the panel is upside-down compared to the final installed position <50>.

Alignment of the tail skin flush with the top cover should provide good alignment to the tailgate; however, do not fully tighten the hardware until later to ensure proper fit with the tailgate <49>.



Figure 50: Tailgate Skin Installation



Assemble the cover halves and tailgate skin.

4. Lay the panel's upside-down on the table top.
5. Connect the panels either with the larger hinge hardware supplied (washers and 10mm nylon lock nuts, <51>), or with carriage bolts, washers, and 7/16 nylon lock nuts if the preference is to have a single top cover piece.

Proper placement of the top cover helps to finalize the alignment of the system.

6. Place the top cover on the frame rails.
7. Insert the rear, middle, and front quick release pins on both sides <52>; six places on the two piece cover, four places on the one piece cover.
8. Starting at the front, carefully insert a pry bar between the removable panel and the vertical frame rail.
9. Insert two more trim tools at the rear of the top cover, one on each side <53>. These two steps help to ensure a small gap is maintained to open the panels while tightening everything up.
10. Starting at the driver's side rear, verify that the hardtop pin alignment hole is centered and clear through the wing skin. Tighten the factory bolt with a T-40 Torx key, three on each side.
11. Tighten the factory front hardtop bolt, followed by the center factory bolt.
12. Tighten the front wing skin / wing wall 7/16 lock nut, ensuring the carriage bolt seats properly and the assemblies align <46>.
13. At the back of the Jeep, driver's side, observe that the wing skin is flush and level across to the top cover. Raise or lower the giraffe bracket to obtain proper height alignment to the Jeep body and tailgate <49, 54>.
14. At the tailgate latch, verify that the giraffe also has a vertical alignment. Straighten if needed.
15. Check the tailgate latch alignment against the masking tape marks <54>.
16. Recheck the height of the wing skin / top cover one last time, then using a T-45 Torx key, fully tighten the tailgate latch bolts.
17. Tighten the driver's side factory hardtop bolts <56>



Regardless of whether the hardtop, soft-top, or no top is installed, all six factory bolts with the supplied fender washer must be installed.



Figure 51: Top Panel Hinge



Figure 52: Quick Release Pins



Figure 53: Top Cover Spacing

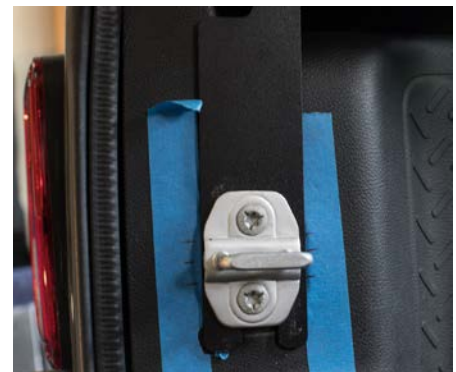


Figure 54: Giraffe Bracket Alignment

18. Tighten all of the driver's side frame rail nuts with a 7/16 socket.
19. Tighten the front wing skin fork plate bolt with a 7/16 socket <57>.
20. Tighten the rear wing skin fork plate bolt with a 7/16 open end wrench.
21. At the passenger's side rear, verify that the hardtop pin alignment hole is centered and clear through the wing skin. Tighten the factory bolt with a T-40 Torx key.



Regardless of whether the hardtop, soft-top, or no top is installed, all six factory bolts with the supplied fender

washer must be installed.

22. Tighten the factory front hardtop bolt, followed by the center factory bolt.
23. Tighten the front wing skin / wing wall 7/16 lock nut, ensuring the carriage bolt seats properly and the assemblies align.



Figure 57: Wing Fork Plate Nut

24. Tighten all of the passenger's side frame rail nuts with a 7/16 socket.
25. Tighten the front wing skin fork plate bolt with a 7/16 socket <57>.
26. Tighten the rear wing skin fork plate bolt with a 7/16 open end wrench.
27. Use the 3/4" socket to fully tighten the factory ear seat mounting nuts <58>.
28. Use the 7/16" socket to fully tighten the bottom vertical rail nylon lock nuts <59>.
29. Remove the trim tools and pry bar.



Figure 58: Factory Seat Nut

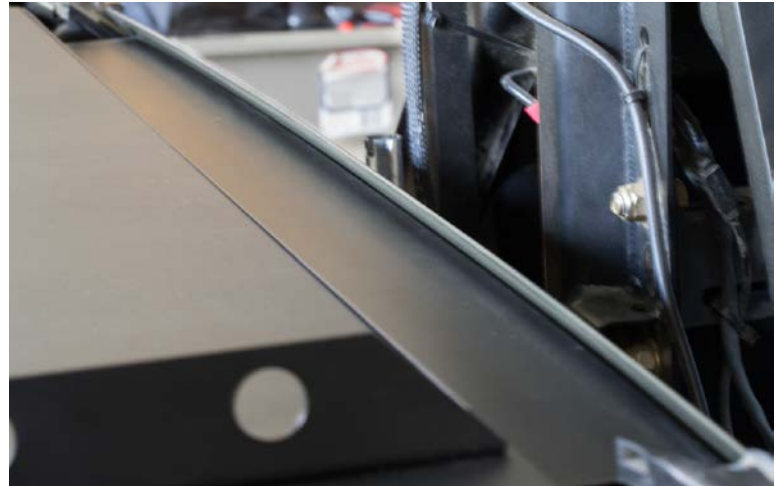


Figure 55: Giraffe Bracket & Tailgate Skin Alignment



Figure 56: Factory Bolt Installation



Figure 59: Vertical Wall Tightening

30. While watching the tailgate skin, slowly close the tailgate and check for proper alignment. Height adjustment of the tailgate is possible by loosening the three 7/16 locknuts which secure the tailgate skin to the top cover.
31. Remove the top cover rear quick release pins and test the opening / closing function of the top cover.
32. Lastly, select a location for the Diabolical decal along the rear-facing edge of the tailgate skin / top cover. Peel and place the decal <60>.



Figure 60: Decal Placement

## Additional Notes

- The folding top can be installed with the larger section towards the tailgate. In this configuration, the panel will not sit flat when folded and the rear seats are in the upright position.
- Place a locally purchased rubber (yoga) mat between the top panels when folded over to protect the top cover. Cut the mat to fit.
- Apply *Plasti Dip* (locally available at hardware stores) on the quick release pins for a tighter fit. It also helps to reduce rattle noises.

## Accessories

- 4" Top, with Hinged Rear Panel – This is installed the same as the folding two-piece panel, but only utilizes four quick release pins (instead of the six supplied with the two-piece top).

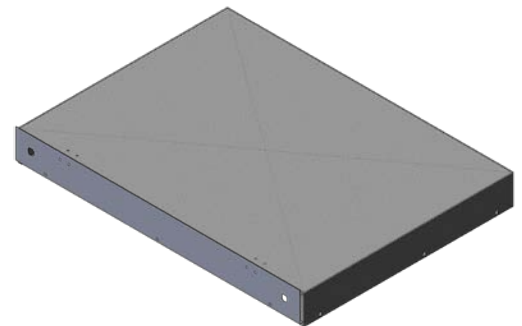


Figure 61: 4" Top Panel



- 6" Top with Hinged Rear Panel – This is installed the same as the folding two-piece panel, but only utilizes four quick release pins (instead of the six supplied with the two-piece top).

## Checklist

Verify all carriage bolts and nuts are completely tight. Also verify the following are tight and correctly installed:

- Giraffe to upper frame bracket bolt
- Multi-bend or straight bar to upper frame bracket bolt
- Left and right wing fork plate bolts
- Left and right wing skins/90 degree brackets to vertical frame rails
- Left and right forward upper frame rail to vertical wing walls
- Wire harness close-out square on drivers-side wing skin
- Factory hardtop bolts with supplied black flange washers on top of wing skins
- Rear seat attachment nut
- Diabolical Inc. Decals installed

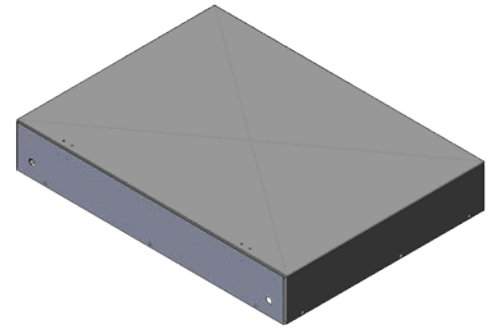


Figure 62: 6" Top Panel

## Warnings

*Failure to install all hardware and quick release pins as described in this instruction may cause damage to the vehicle and/or personal injury. Avoid injuries and damage by installing all parts supplied in this kit. Failure to do is the responsibility of the owner/installer and not the fault of Diabolical Inc.*

*Monitor the weight that is added to the top of the Slipstream. Loads differ and may require additional strapping or methods of securing to the vehicle. Owner assumes all responsibility for loading on top of the removable top and any other areas of the Slipstream system.*

*Make sure the hardtop bolt holes align. The assembly may require "opening" or adjustment to attain a proper fit. Soft top fitment also utilizes the hardtop bolt locations through the wing skins to the Jeep body for proper fitment, damage prevention, and security with the Slipstream system.*

## Final Thoughts

Thank you for your purchase of the Diabolical Inc. Slipstream Secure Storage System. Please send us pictures once installed and when in use for our website, so others can see it in use. We appreciate any social media promotion you might make and please follow us on Facebook, Instagram, and other outlets.

We value your support and look forward to extending our new products to you as we complete the engineering development and get them through production.

Alan  
Owner: Diabolical Inc.