



**BULL DAWG SUV HARDTOPS**  
**The Perfect Companion for your Sport SUV**  
Another quality company by McLaughlin Manufacturing.  
4737 Adams Road  
Chattanooga, TN 37411  
[www.bulldawgmfg.com](http://www.bulldawgmfg.com)  
800-784-6478

## **INSTALLATION INSTRUCTIONS**

### **2007 to Current JK 1-PC JEEP HARDTOP**

(You can also view this installation sheet in color online at:  
<http://www.bulldawgmfg.com/BullDawgmfginstall.pdf>)

To Enjoy Your “BULL DAWG” Hardtop for many years to come, proper installation is critical. Read all instructions carefully before beginning the installation process.

**Warning:** This product is only designed for the Jeep Wrangler JK built from 2007 to the current year model. This product is NOT to be installed on other vehicles. It is designed only to enhance the appearance of the vehicle and to protect; against some undesirable weather conditions. It is not designed to hold occupants inside the vehicle, or to protect against foreign objects, or as protection in the event of an accident.

**Occupants should always wear seatbelts at all times.**

**Improper use of this product could cause serious injury to the vehicle occupants and damage to the Hardtop.**

### **Parts List and Hardware Identification**

<b>Part Name</b>	<b>Quantity</b>	<b>Use</b>
Fluted Hand Knobs	4	Used in conjunction with the provided hardware to attach the Rubber Bumpers to the roll bar and also aid in pulling the Hardtop down appropriately.
Hex Headed Bolts; 3” long x 5/16 x 18	2	Used in Conjunction with the Fluted Knobs to hold down the rubber bumpers to the roll bar.
Hex Nuts; 5/16 x 18	2	Used with the Fluted Knobs and 3” bolts to hold down the Rubber Bumpers to the roll bar.
Hex Headed Bolts; 3 ½” long x 5/16 x 18	2	Used in Conjunction with the Fluted Knobs and Roll Bars to help hold the Top down.

1 1/2" Bolts with Round Hand Knobs	6	Used in conjunction with provided washers and nuts to hold down the Hard Top to the Jeep Tub.
Star Washers	6	Used in conjunction with the Round Knobs, Washers and Square Nuts to hold the Hard Top down to the Jeep Tub.
Large Washers	6	Used in conjunction with the Round Serrated Knobs to hold down the Hard Top to the Jeep Tub
Locking Serrated Washers	6	Used along with the 1 1/2" bolts, Large Washers and Square Nuts to hold down the hardtop to the Jeep tub.
Square Nuts	6	Used in conjunction with the Round Serrated Knobs to hold down the Hard Top to the Jeep Tub
Footman Loops	2	Used to help hold down the Hard Top to the Jeep windshield frame. Attaches to Jeep's Windshield Frame.



Figure 1 – Picture of Parts

### Installation Instructions

The following instructions apply to Jeeps whose doors and body are properly aligned within factory specifications. The angle of your Jeep's windshield frame and the overall alignment of your Jeep's body are critical for the hardtop to fit properly. In most cases there are no alignment issues, however, there are many ways for the windshield frame and body to get out of factory tolerance. Incorrect body work after a wreck, harsh or off road driving conditions, etc. can many times result in the body of a Jeep being outside manufacturers specifications without the owners even being aware. If you have reason to believe this may

be the case, please bring your Jeep to an authorized Jeep mechanic or body shop to perform the necessary adjustments.

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1. Remove your soft top and any hardware or brackets associated with your soft-top. It is a good idea at this time to clean both the rubber windshield gasket on your Jeep as well as the top of the Jeep tub where the hardtop will be resting. This should be done using a soft clean cloth and water only.
3. Remove the hardtop from the shipping pallet by unscrewing the six (6) screws holding it down.
4. Remove the two factory installed Footman Loops(**Figure 5**) attached to your windshield frame and replace them with the two longer BullDawg Footman Loops(**Figure 6**) contained in the installation kit. The bolts will take a T-25 spline drive.



**Figure 5 – Factory Installed Footman Loops**

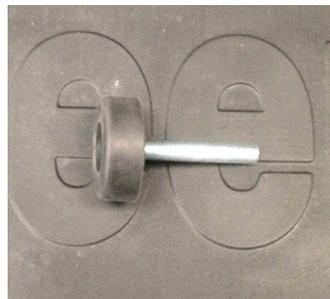


**Figure 6 – BullDawg Footman Loop**

5. Take the two Rubber Bumpers and install a small washer and a three(3”) inch bolt into each one(**Figures 7 & 8 below**). Also, insert the two supplied Hex Nuts into two of the Fluted Hand Knobs as shown(**Figure 9 below**).



**Figure 7 – Rubber Bumper With Bumper Installed**



**Figure 8 – Rubber Bumper With Washer and Bolt Installed**



**Figure 9 – Hand Knob With Nut Installed**

Place each of the assembled Rubber Bumpers onto the Jeeps Roll Bar in the locations of the two factory hole in the Roll Bar(**Figure 9 & 10**). Take the Round Knob with the nut installed and screw it onto the bolt from the bottom side of the Roll Bar until tightened(**Figure 11**).



6. You are now ready to lift and place the hardtop on the Jeep. We recommend using three(3) people, one person on each side of the hardtop and one in the rear. Make sure both the tailgate of the Jeep is opened and the rear window of the hardtop is opened before lifting the top onto the Jeep. Begin by positioning the hardtop directly behind the Jeep, lift and walk the Jeep Top forward until you can rest the front of the top onto the Jeep's windshield gasket.
7. There are two small gaskets which have been pre-installed on each corner of the hardtop where it will meet and seal against the corners of the windshield frame(Figures 7 & 8). Make sure these remain straight and in place when pushing the hardtop against the windshield frame. They will compress and fill gaps as needed when the hardtop camlocks are tightened down in the next step.



Figure 7



Figure 8

8. Attach the two front adjustable camlocks to the two footman loops previously installed. They should only be tightened so that moderate pressure is achieved when closed(Do not over-tighten).
9. Assemble the two 3 1/2" bolts by placing them into two of the hand knobs as shown(figures 9 &10).



Figure 9



Figure 10

There is a hole on both the drivers and passengers roll bar approximately 10 inches back from the windshield. Push the bolts through these holes and thread into the hardtop. Light pressure is all

that's needed when tightening. When the doors are closed the gap between the hardtop and top of the doors should be consistent. Over-tightening of these knobs can actually pull the hardtop down and interfere with the door closing. If this is the case, simply back off the pressure by turning the knob counter clockwise a quarter turn at a time until satisfied with the alignment.



Figure 11 – “Hole in Roll-Bar”



Figure 12 – “Threaded Hole in Hardtop”



Figure 13 – “Properly Installed Knob/bolt”

10. Be sure that the A-Pillar Foam/Mocket is properly positioned. Water leaks in this area are common when the Header Mocket is rolled under or not lying flat. If the Mocket is bent out of shape it should be replaced with a new one. *Hint...use a piece of black electrical tape to hold the seal to the hardtop if necessary.*



Figure 1: This repair procedure is applicable when water is evident on the door trim panel



Bad... Seal is folded under 1



Correct layout of seal 1

11. Next, locate the three(3) pre-drilled holes on each side rail of the hardtop. These will align with the factory holes in the Jeep tub body(see Figure 13). Using the six(6) 1 ½” Knob Bolts, (6) 1¼” washers, (6) locking washers and the (6) square nuts attach the hard top to the Jeep tub. The Locking Serrated Washers go between the square nuts and underneath side of the Jeep Tub. The Large Washers go on top of the side rails. Hand tighten to approximately 8 to 10 lbs torque.

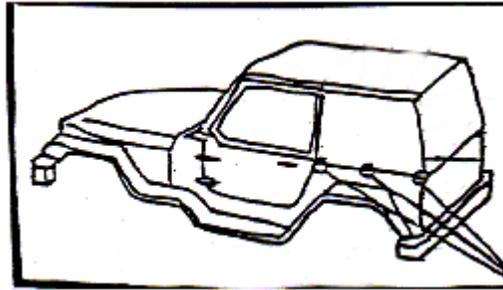


Figure 13 – Side rail bolt locations

12. Make an alignment check to insure that the front of the Hardtop is seated in the factory windshield gasket. Also, check that the side and rear of Hardtop are aligned properly with the tub of the vehicle. Loosen and readjust as necessary.

### **FAQ AND HELPFUL HINTS**

1. JK Water Leaks: A wide number of water leaking problems have been documented by Chrysler Corporation which has actually led to them to publish a “Water Leaking Diagnosis & Repair Manual”. This very important document can be used to diagnose and solve most water leaking problems. It can be downloaded and seen at multiple locations on the internet. A few of these locations include: <http://www.scribd.com/doc/86200404/JK-Water-Leaks-All#scribd> , <http://www.wranglerforum.com/attachment.php?attachmentid=1110682&d=1400375183> and [http://www.ruleworks.co.uk/carguide/doc/JK Water Leaks All.pdf](http://www.ruleworks.co.uk/carguide/doc/JK%20Water%20Leaks%20All.pdf). Be aware that a number of the small gaskets connected to the windshield frame and doors are very susceptible to water leaking if they have been bent, twisted or worn in the slightest.
2. Make sure that the two small gaskets on each side of the hardtop do not protrude out from the edge of the top but rather makes a smooth seamless transition from the edge of the windshield frame to the edge of the hardtop. If it is not you run the risk of a water leak at this area. If part of the gasket is sticking out proud in this area you can trim it flush with a sharp trim blade insuring a smooth and flush transition.

3. **How do I maintain and protect my new Hardtop?**  
Wash and clean using a soft cloth and a non- abrasive soap and water. At least once a month wash, dry and coat the top with Bull Dawg UV Sealer Glaze found under parts on the web site. Using the sealer will condition the gelcoat and insure the surface does not haze over time.

**Note: DO NOT use automotive liquid or paste wax on your Bull Dawg Hardtop. Depending upon the type of wax you are using it may dry to a haze and be very difficult to remove from your tops textured surface**



4. **What if my Hardtop leaks or seems misaligned?**

1/3/17 Revision

Bull Dawg Tops are designed to fit Jeep bodies that are to factory specification. Please be aware that if the vehicle has been in a wreck, had bodywork performed or has a twisted frame it may not be possible to prevent all leaks. Chrysler Corporation has put together an extensive diagnosis and repair manual because of all the water leaking problems that seem to be common to the Jeep Wrangler JK. You can view this

- *It is the owner's responsibility to insure proper installation and perform monthly maintenance checks of fasteners. Doing so will assure safe operation and long life of the Hardtop.*
- *When the Hardtop is off your vehicle, keep it stored upright and do not leave or place heavy objects on it for any extended period of time as it may deform the sides.*

\*\*\*Chrysler Corporation diagnosis and repair manual for JK water leaking problems\*\*\*.  
<https://cda.extra.chrysler.com/icon/sqwrp/files/2301010.pdf>

## **ENJOY YOUR NEW HARDTOP!!**

### **Customer Service or Technical Questions**

If you have any questions please contact your dealer or Bull Dawg's customer service department at 800-784-6478. Bull Dawg's hours of operation are Monday through Friday 8am to 4pm Eastern Standard Time. You may also find additional information or you may contact us electronically from our website at [www.bulldawgmfg.com](http://www.bulldawgmfg.com)