



## Savvy Off Road Front Bumper TJ/LJ 1997-2006

Thank you for the purchase of our [Front Bumper](#). Our front bumpers are available in two thicknesses 3/16" and 1/4" to suit your off-road needs. They are made from 6061-T6 aluminum which features high strength and light weight. Our bumper is designed for the most aggressive approach angle as well as maximum tire clearance. The winged sides also protects aftermarket swaybars from trail damage. To install a winch on our front bumper it is mandatory that the Savvy Fairlead Mount be used. When the bumper is installed with an aftermarket swaybar, the fairlead mount can be installed in the recessed position providing additional protection for your winch. You may also use the OEM swaybar with the fairlead mount installed in the forward position.

Enclosed you will find a set of instructions that will enable you to install the front bumper with a minimum of fuss and little more than basic hand tools. If you attempt the install and find yourself not understanding what needs to be done, please contact Savvy Off Road with your technical issue.

*Please take the time to read these instruction and familiarize yourself with the hardware parts list before attempting your installation. The instructions are detailed, but are written to provide you with a step-by-step guide to install the Savvy Front Bumper with minimal issues.*

**Parts and tools needed for installation-** Outside of the parts supplied in the kit, you will need personal safety equipment, assorted hand tools, allen bits and torx bits to complete the installation.

**Cleaning and Painting** - The Savvy front bumper is manufactured using 6061-T6 aluminum. If you choose to paint it, methods and coatings suitable for aluminum should be used for the best results. The factory markings indicating the alloy are typically easily removed with a quality solvent such as brake cleaner. Other solvents like acetone if available will also work.

**Note:** Photo includes optional components that can be purchased with the Savvy front bumper.



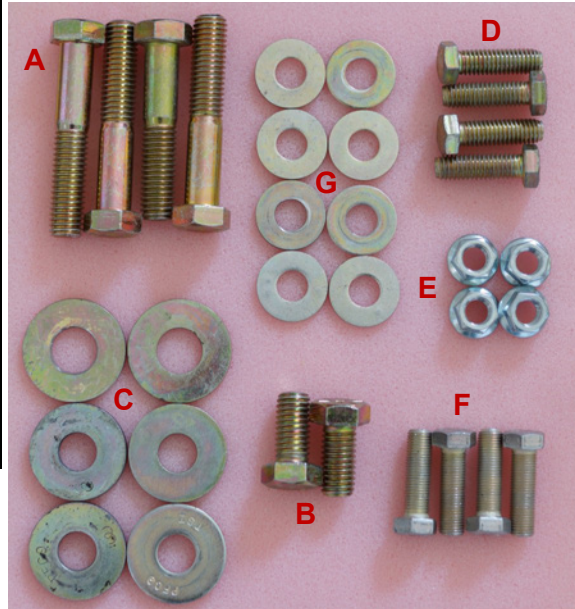


### Hardware Parts List

Hardware	Quantity
1/2" - 13 X 2-1/4" HHCS Grade 8 (A)	4
1/2" - 13 x 1-1/4" HHCS Grade 8 (B)	2
1/2" Thick Washer (C)	6
Off Road Bumper (H)	1
3/8" - 24 x 1" HHCS Grade 8 (Optional) (D)	4
3/8" - 24 Flange Nut (Optional) (E)	4
3/8" - 16 x 1" HHCS Grade 8 (F)	4
3/8" Flat Washer (G)	8*
Fairlead Mount (Optional) (I)	1
Recovery Hooks (Optional) (J)	2
Light Tabs (Optional) (K)	2
Winch Guard (Optional) (L)	1

\* Quantity of 4 if Fairlead Mount not purchased

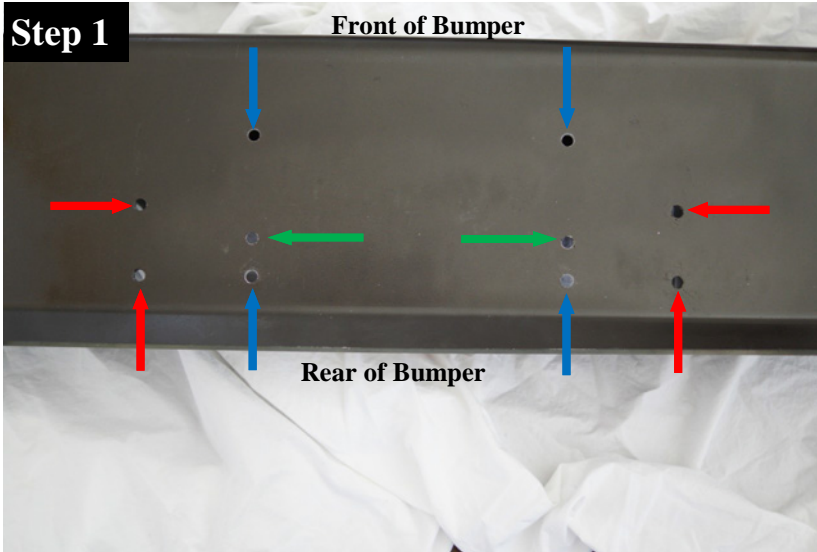
HHCS = Hex Head Cap Screw







**Step 1**



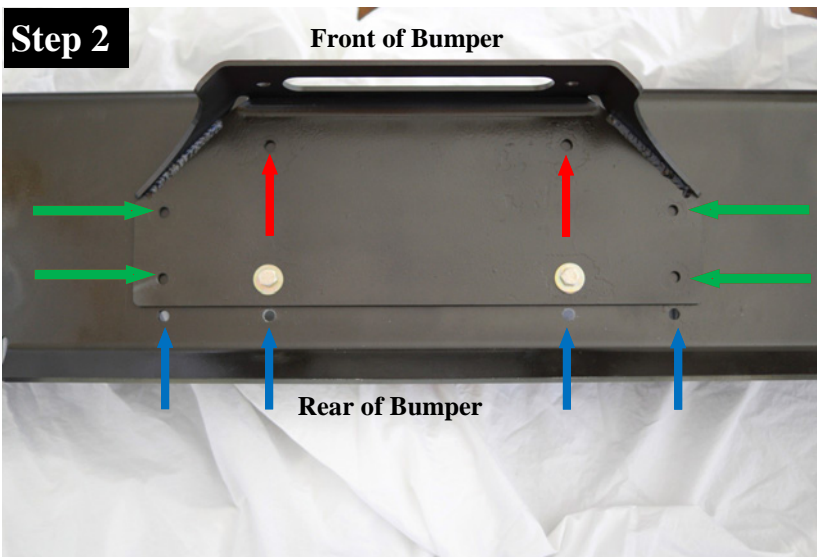
Your Savvy Bumper provides you the option to run an OEM swaybar or an aftermarket swaybar such as the Currie Antirock. If you did not purchase the Fairlead Mount (mandatory for winch installation) please skip ahead to **Step 5**.

The **red arrows** indicate where the fairlead mount will be mounted when using an aftermarket swaybar. The **blue arrows** represent the standard winch mount pattern that will be used with an aftermarket swaybar. Using this pattern allows the winch to be mounted recessed on the bumper.

The **green arrows** are to be used as a template for mounting your fairlead mount when using the OEM swaybar.

If you have the OEM swaybar proceed to the next step. If you have an aftermarket swaybar proceed to **Step 3**.

**Step 2**

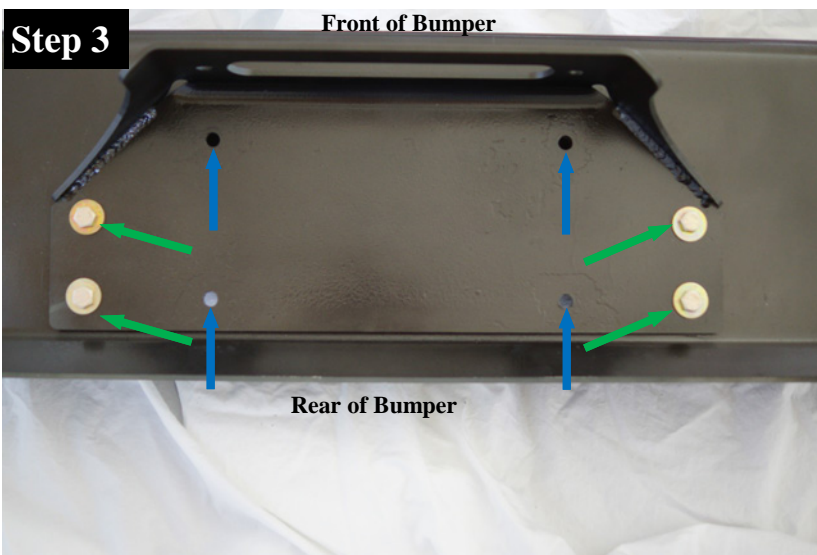


The OEM swaybar will be installed on top of the bumper with the swaybar running across the rear mounting holes identified by the **blue arrows**.

Install the fairlead mount with (2) 3/8" - 24 x 1" HHCS, (2) 3/8" Washers and 3/8" - 24 Flange Nuts as shown and tighten.

The fairlead mount requires a 3/8" drill bit to mount your winch using the standard winch pattern (verify your winch mounting bolt diameter does not require a different drill bit). The mounted fairlead mount will serve as a template for drilling out the fairlead mount mount points (**green arrows**) and the remaining standard winch bolt mount pattern (**red arrows**). When complete remove the installed template fasteners and install (4) 3/8" - 24 x 1" HHCS, (4) 3/8" Washers and 3/8" - 24 Flange Nuts at the **green arrows** and torque to **42 ft-lbs**. Proceed to **Step 4**.

**Step 3**



With an aftermarket swaybar installed we recommend installing your fairlead mount in the rear position as shown.

Install the fairlead mount onto the Bumper using (4) 3/8" - 24 x 1" HHCS, (4) 3/8" Washers and (4) 3/8" - 24 Flange Nuts in the **green arrows** and torque to **42 ft-lbs**.

The **blue arrows** represent the standard winch mount pattern which may require longer bolts.

Please proceed to Step 4 for further details on winch guidelines.



**Step 4**



**Please note that the rest of the instructions are illustrated without a winch installed for clarity. If you intend to install a winch please do so using the following guidelines.**

Due to the combined thickness of the Bumper and fairlead mount you may require longer bolts to maintain the same thread engagement into your winch feet. If longer bolts are required, be sure the bolts don't damage the winch housing.

Follow the manufacturer's instructions to install the winch. When completed, the bumper is ready to be installed.

**Step 5**

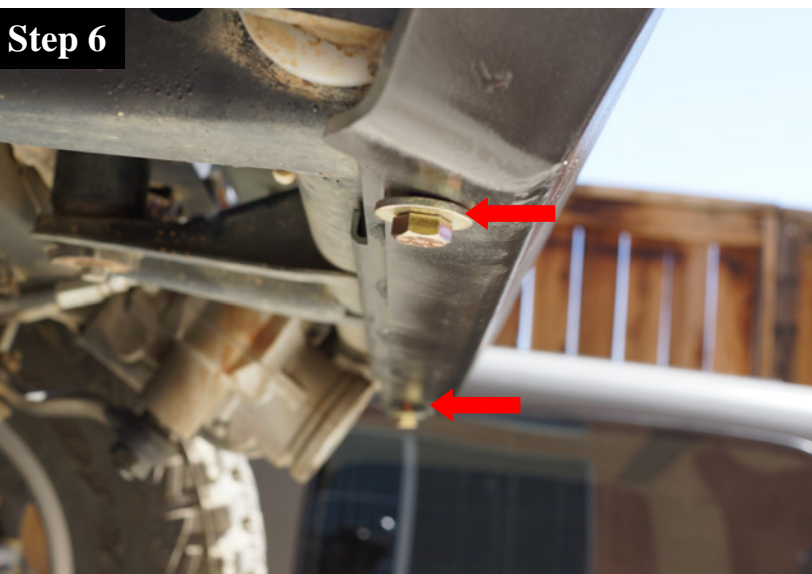


To install the Savvy Front Bumper you must remove your fog lights, tow hooks, OEM swaybar cover, OEM swaybar (if applicable) and current front bumper.

Your front end should look as pictured or your OEM swaybar should be unbolted and resting on the frame. You will remount your OEM swaybar on top of the Savvy Front Bumper later on.

**Note:** An aftermarket swaybar is installed on the pictured Jeep.

**Step 6**



Slip the front bumper onto the frame horns and loosely install the (2) 1/2" - 13 x 1-1/4" HHCS and (2) 1/2" Washers as shown in the **red arrows**. Do not tighten at this time!

Gather the optional components you may have purchased with your front bumper such as Light Tabs, Recovery Hooks (your factory hooks can be reused) or Winch Guard.

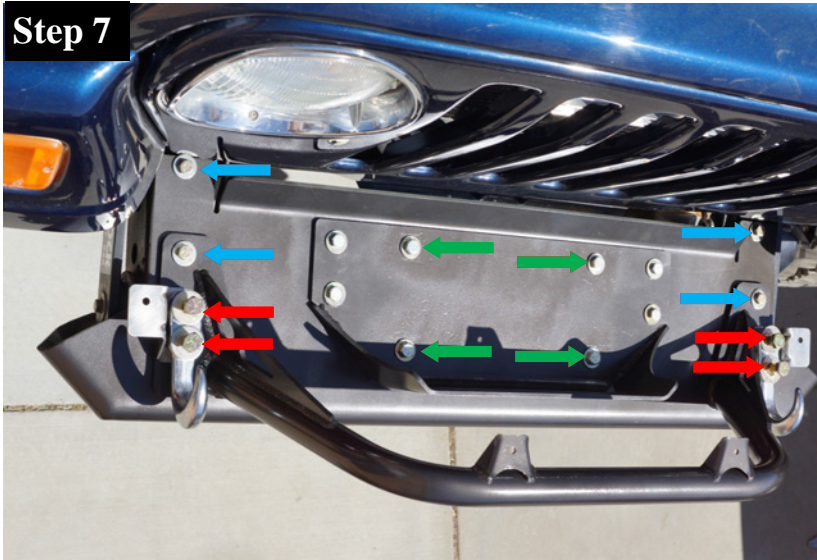
**(Step for Winch Guard if purchased):**

The Winch Guard has two optional mounting points for lighting, and holes for wiring within the Winch Tube. Mock up where the Winch Guard will be installed and drill the holes THROUGH the BUMPER for the wiring access points that will be run through the winch hoop tube. You may also enlarge the lighting mount holes if needed for your application.





### Step 7



Working from the base of the front bumper install your options on top of each other as follows: Winch Guard >> Light Tabs >> Recovery Hooks at the very top. Any option you may not have can be eliminated from the installation.

Loosely install (4) 1/2" Washers and (4) 1/2" - 13 X 2-1/4" HHCS as shown in the **red arrows**. If you are not installing recovery hooks you may use your OEM fastener or procure Grade 8 equivalent (4) 1/2" - 13 X 1-1/2" HHCS.

For those running the OEM swaybar, remount your swaybar using (4) 3/8" Washers and (4) 3/8" - 16 x 1" HHCS, else install as shown by **blue arrows**.

**Note:** Shown in the **green arrows** are temporary fasteners where a winch would be installed. For visual purposes a winch was omitted from this installation.

### Step 8



You are now ready to fully tighten your front bumper. Torque the following bolts as shown:

- (2) 1/2" - 13 x 1/4" HHCS (bottom) to **90 ft-lbs**
- (4) 1/2" - 13 X 2-1/4" SHCS to **90 ft-lbs**
- (4) 3/8" - 16 x 1" HHCS to **37 ft-lbs**

### Step 9



Complete you installation by reinstalling your factory fog lights on optional Light Tabs or on the Winch Guard.

You are now complete with your installation!