

# U.S. Off Road FJ Cruiser Backup Camera Armor

Installation & Use

Version 2.2

**Please read the following instructions and notes before installing your Camera Armor.**

The FJ Backup Camera Armor was designed to effectively cover the unsightly backup camera found on most FJ Cruisers and provide a 100% field of view compared to the stock spare cover. This product also has a mounting system that uses the aluminum end cap to secure a 3 way bracket with two 1/4" stainless steel screws.

The bracket can be modified and used to mount a GoPro, light, trash bag or antenna, or whatever you think of. You can cut, drill, twist, grind and bend the brackets. They are made of 11 ga steel. The channels in the back of the aluminum cap are approximately .75" wide and .135" deep. You can buy 3/4"x .125" bar at most hardware stores and make your own brackets too.

These come bare steel or powder coated. The aluminum cap is raw, no finish or coating, unless you requested powder coating. You can paint over the cap, polish and engrave if you wish.

## What is included:

- Steel body made of 11ga steel.
- 3/8" thick aluminum end cap
- Filler bracket
- Extended bracket with mounting holes only.
- 2 x 1/4"-28 stainless steel allen screws

## You need:

- 5/32 allen wrench
- Lugnut wrench (left rear of your FJ)
- Paint or coatings for the main body and brackets.



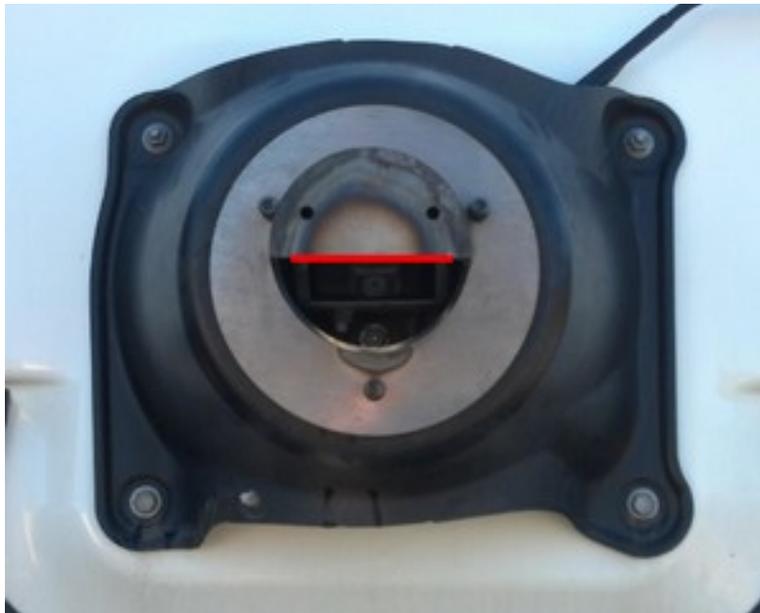
**Do not throw away the cardboard sleeve that is on the armor body.** Use this to protect the armor when installing the wheel/tire or you will scrape your pretty new finish. Once you install the wheel/tire slide the sleeve off, flatten and store it under your rear carpet/mat for future use.

**Do not use the armor and cap to bend your brackets.** If you need to bend a bracket install it, mark then remove and use a vise or appropriate tools.

## Installation

If you intend to paint your armor yourself we suggest using some medium grit sandpaper on the steel body and brackets then cleaning it with wax and grease remover which can be found at most local auto parts stores. Prime then paint. This article will give you more insight on paint and coatings: <https://www.usoffroad.us/bumper-prep-and-paint/>

Remove the spare wheel/tire. Slide your Camera Armor with the end cap (do not install brackets yet) over the wheel studs. If you intend to install a bracket that protrudes out side fo the armor then leave the end cap off and install it all at once after the spare is back on. Notice that the holes are slotted so you can rotate the mount parallel with the camera housing.



Re-install your spare over the camera armor. If you have any issues with the armor clearing the OEM housing you may need to loosen the bolts at 6 and 9 o'clock (you do not need the bolt at 3 o'clock) and move the housing around a bit to clear our armor. Use the included sleeve to protect the finish on your armor. Once the spare is mounted remove the sleeve then tighten the lug nuts. Make sure the armor is level before tightening the lug nuts. If you are concerned about security you might use a locking lug nut on your spare.

If you are installing brackets now you can do so. You will need a 5/32 allen wrench for the screws. **DO NOT** over tighten the screws with a ratchet. We install the stainless screws with anti seize lubricant as the stainless screws may try to seize with the plain steel body.

Always keep anti seize on the screws.

If you do not wish to use the extended bracket then simply insert the filler bracket to help keep mud and debris from accumulating behind the cap.

Otherwise, make it your own and use, color and fabricate to your liking!

**WARNING:** Camera Armor is not meant to be used for recovery purposes or to secure heavy loads. It is meant to mount items like GoPro cameras, CB antennas like a 5' Firestik, a backup light or hang a Trasharoo or something similar in weight and stress.



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