

INSTALLATION GUIDE

FJ Cruiser Camera Mount



EXPEDITION ONE
OFF-ROAD RESEARCH & EQUIPMENT

9

Next, we'll need to remove the rear door plastic cover by popping off the plastic caps and removing the screw and bolts that hold it to the door. (See photos in steps 9 & 10)



Once these are removed, you can now carefully pry the plastic panel away from the door starting from the bottom. We had to use a flat head screw driver at the bottom to get things started.

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You will also need to open the rear window to help with installation



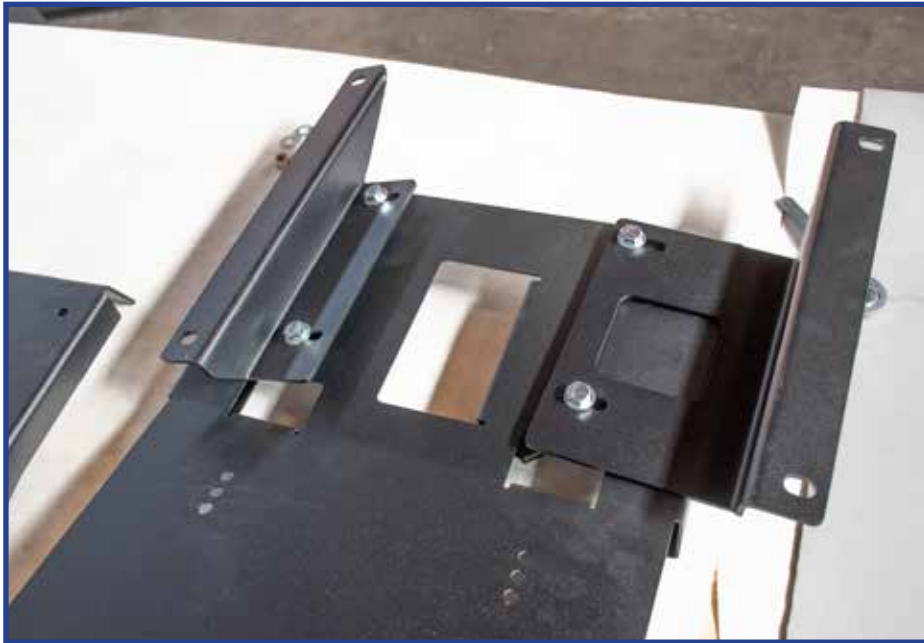
Once the plastic door panel is removed and the rear door exposed, you will need to pop these small white caps off in order to pull the seal to access the wiring. We're now prepped for wiring install later in the guide in step 18.

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Next we'll prep the camera/license relocation mount. Flip over the mount on its back and hand tighten the two brackets that allow it to mount to the back of the door.



Place the camera/license bracket into position and secure with the stock bolts that came off from original door mount.

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Next we'll tighten the bolts that hold the camera mount base to the two door brackets.

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Attach the provided nut retainers into each corner hole on the camera bracket base. (reference photos in steps 15 & 16)



Next, we'll need to unplug the "license plate light" harness. You can let it hang below or zip tie it out of the way. STEPS 19-29 we will be extending the license plate light location to its new location towards the center of door with a custom wire.

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Attach the red wire taps to the green and white wires on the harness end, not the side we disconnected. (See step 19 & 20)



Make sure the red tap 'clicks' when pressed with clamp tool.

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Next, we'll pull the rubber grommit and plug through the back of door so we can add a secondary wire as shown in Step 22.



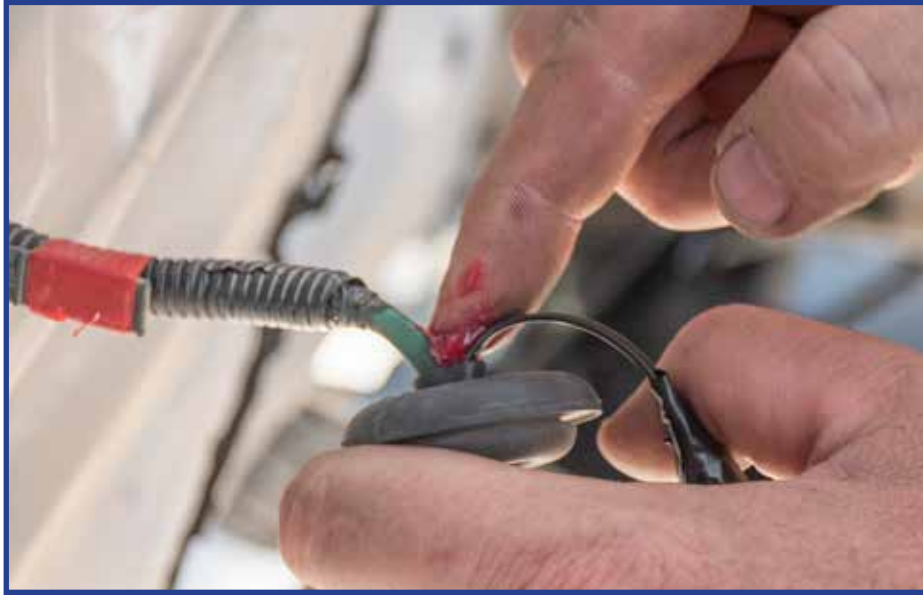
Next, we'll need to pull through some new wire through the rubber grommit.

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We used a bit of grease to help get the wire through the small opening of the rubber grommit.



Pull the new wire through the rubber grommit until the new wire is roughly even with the stock camera wire plug. Test fit for length to make sure you can reach the red taps that were installed in steps

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Wipe off any excessive grease after the wire is pulled through.



Your new wire that you fed through the rubber door grommit should be able to reach the circle highlighted on the left where we attached two red wire taps in Step 20 and out through the circle highlighted on the right side where it feeds back through the center opening for the rubber grommit. This new wire will connect to the new license plate leds on the front side of door.

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Next, we'll need to add some electrical tape to prevent any sort of water or other elements that may get inside the wiring.



Here is how your wiring should look at this point. Go ahead and feed the original camera plug first and new wire back through the door and secure the rubber grommit to the door in its original location.

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Photo below shows wiring on the outside



Strips the ends of the new wire

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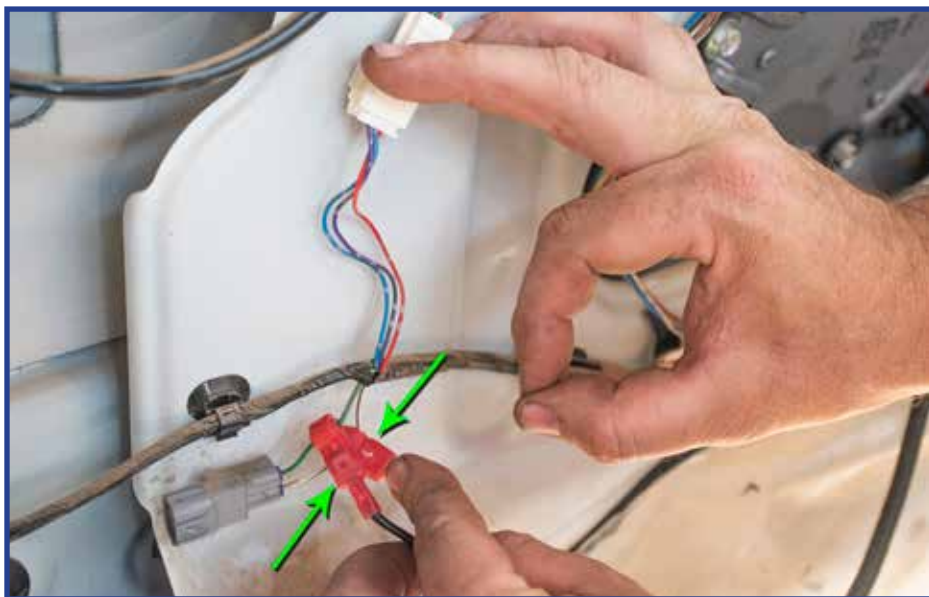
31

Attach the male spades that match the red wire taps from Step 20 onto the ends of the new wire



Attach these male ends to the red wire taps shown below

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For a cleaner, organized look, we recommend you zip tie the wires as shown below.



From here we'll position the new license plate leds that are provided in kit into their respective locations on the new door mount shown below

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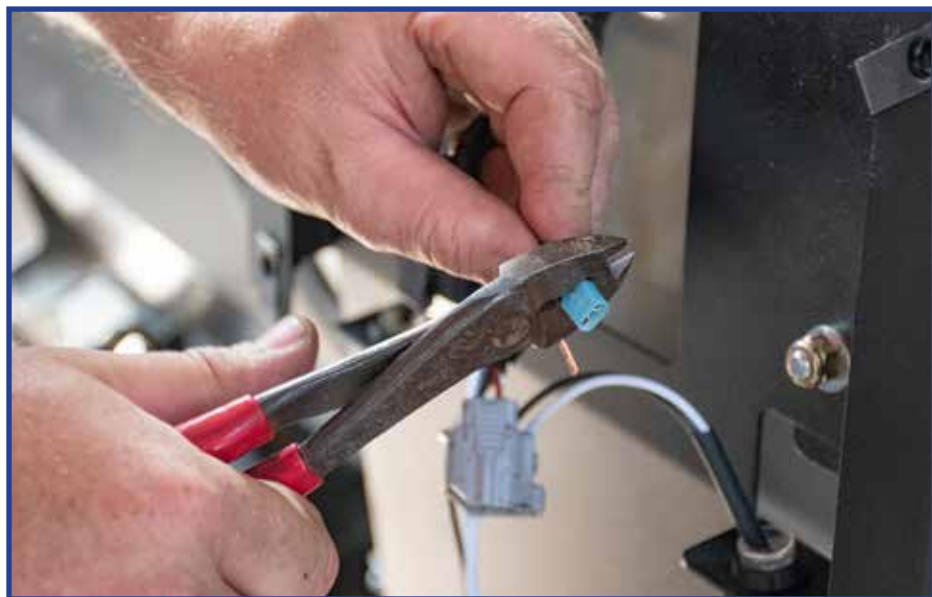
35

Strip the ends of the led wires



Attach the wire spades and clamp down with tool

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These will be spliced and connected to the custom wire we fed through the rubber grommit.



Next, you'll need to remove the stock housing that surrounds the camera itself. There are 2 really small screws that you'll need to remove in order to take the outer housing off of the camera.

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Feed the back-up camera harness through the camera bracket plate shown below



Attach and secure the camera connector to its opposite end

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We recommend 'cleaning' up the wiring with a zip tie.



From here we'll secure the main camera bracket face plate and tighten with provided allen head bolts where they are highlighted in green (see photo below)

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If your camera isn't removed from its stock housing, do so now. (There are 2 really small screws you'll need to loosen and remove)

Next we'll attach the camera to the new mount piece with the existing 2 small screws.



Once camera is secured to small bracket, you'll need to mount it to the bottom camera plate (see below). Secure with provided allen head bolts and nylon nuts. (see step 29 on next page)

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You will also need to attach two clip nuts (see photo below where the right hand is) to the bottom camera plate. (Also see photo in step 27 where the two clip nuts are attached)

The wiring harness makes for a tight fit so you'll need to angle it as shown below. (continue to next step)

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Swing the wiring harness and bottom plate upwards and into place



Secure and tighten with provided allen head bolts.

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