

## Rugged Ridge Front Steel Tube Fenders, JL & JT



### Components

1.	Steel Tube Fender, Driver Side.....	1	7.	M6 x 20mm Button Head Bolt .....	4
2.	Steel Tube Fender, Passenger Side.....	1	8.	M6 x 16mm Button Head Bolt .....	14
3.	LED Bracket, Driver Side.....	1	9.	M6 Washer, small OD .....	30
4.	LED Bracket, Passenger Side.....	1	10.	M6 Washer, large OD .....	4
5.	Nut Plate.....	4	11.	M6 Ny-Lock Nut .....	14
6.	LED Light .....	4			

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**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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**NOTE:** Following steps are shown on a Sahara model, the procedure is the same for the Rubicon.

1. Start by removing inner fender liner. This will require popping all the plastic rivets that join the liner to the fender edge. There is multiple 10mm bolts and plastic clips that must be remove to pull the liner out.



2. Remove the lower fender brace located at the rear bottom of the fender.



3. Unplug the fender wiring from the chassis harness



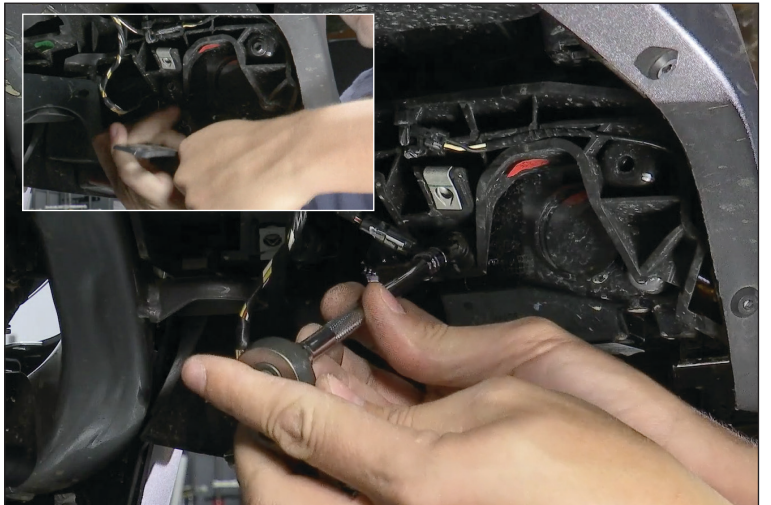


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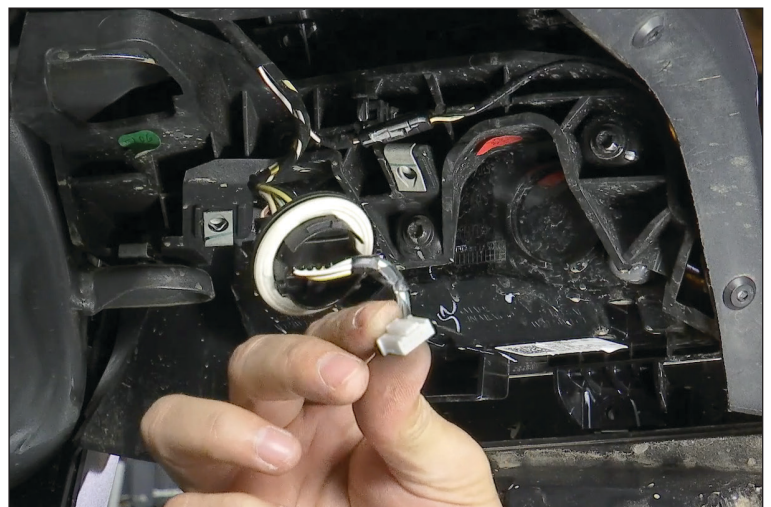
4. Now at the front of the fender remove additional attaching hardware. Start with the two 10mm bolts and then T25 torx screws



5. Pull splash shield down to reveal additional T25 torx screws to remove.

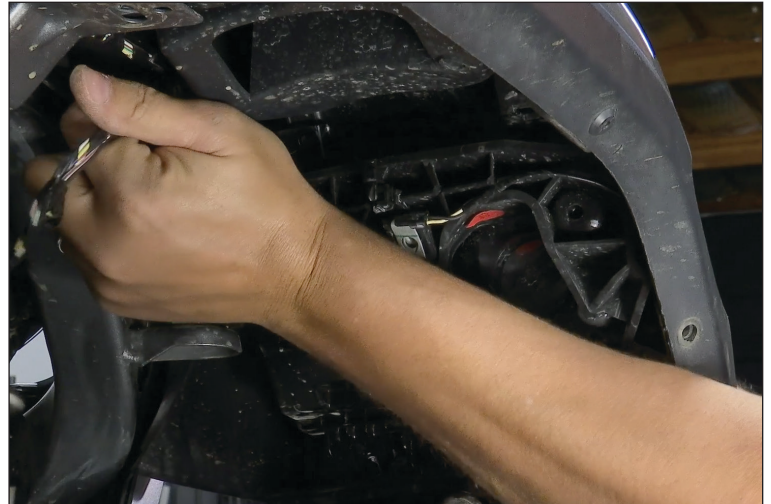


6. Disconnect side marker lights and front running lights. There are some zip ties that will need to be snipped to release the harness from the fender.



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7. Firmly grab the light housing to pull the adhesive tape away to remove light from the fender.



8. Now release all the white retaining clips that attach the fender to the Jeep. Use a small set of needle nose pliers to pinch the back side of the clip and pull the fender from the Jeep. The last clip at the bottom of the fender is deep in the fender. Standard needle nose pliers won't reach it. You could use a long screwdriver or just pull to release this clip. Now fender can be removed.



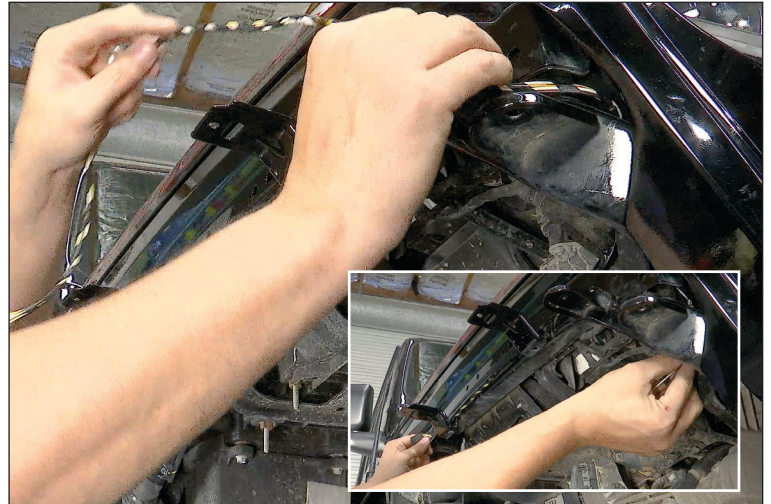
9. Remove the lighting hardness from the OE fender. Now cut the light socket/plug from the harness. We recommend staggering each cut so the wire splices don't stack on each other. Do Not cut the plug towards the rear of the fender to the main chassis hardness only cut at the turn signal.





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10. With your modified wiring harness tuck it back through the body. Tuck the cut end of the harness behind the front fender bracket. Then feed the length of the harness between the layers of the fenders. Make sure the plug reaches it's mate towards the back of the fender.



11. Now thread the LED lights to the fender and inside LED bracket. There is no need to overtighten the nut to the light. We strongly suggest applying a small amount of lock tight to the threads on the light then hand tighten. This will be sufficient enough to hold the light secure to the fender.



12. Clean the sheet metal of the Jeep where the steel fender will meet. Place fender into place to the vehicle. The brackets will support the weight of the fender.





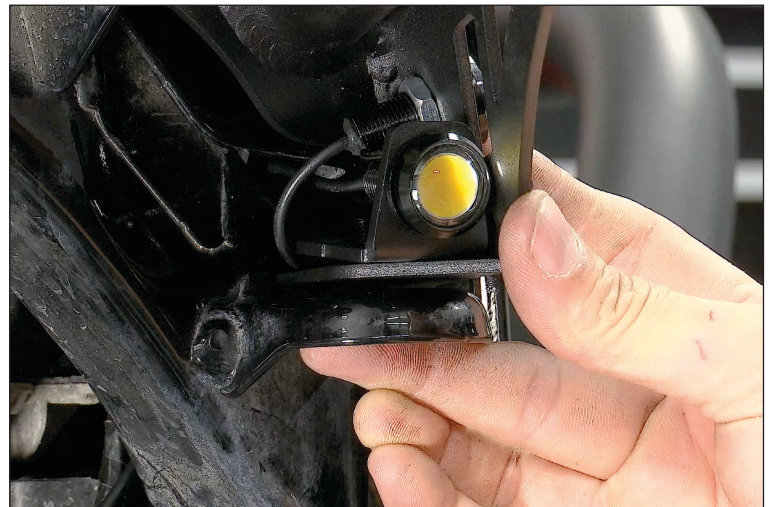
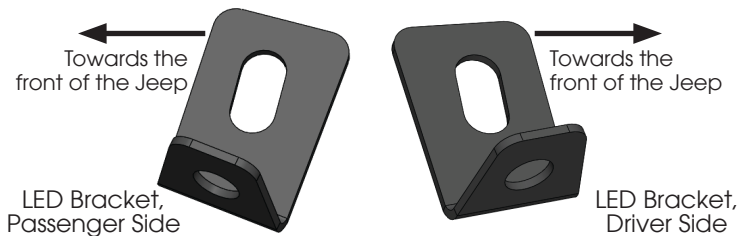
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13. Secure the fender to the body with just a couple of bolts. Just finger tight at this time. Its only to secure the fender to the Jeep to secure it from being bumped off while wiring the light.



14. Next at the front of the fender attach the internal LED light bracket. Insert button head bolt through the OE fender bracket, steel fender bracket and LED light bracket, secure with washer and nut.

Note: The internal LED light brackets are similar in shape. Use images here to assure the correct location.



15. Concerning the method of wiring use your preferred method. We selected wire splices with heat shrink ends. We would also recommend soldering and using heat shrink as the best method of connection and keeping the connections waterproof.

The provided LED lights need to have the ground wires tied together to the Black wire in the OE harness. The Turn Signal light of the fender needs to tie into the White with Green Stripe wire. The side Running Light needs to tie to the White with Brown Stripe wire.





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16. After all the wires are crimped secure wires with the heat shrink and electrical tape. Take your time and make sure all the wires are secure and won't pull apart. The LED lights have thin wires. May need to stripe more wire and fold the exposed wire to create a thicker wire to secure in the wire splice.



17. Plug OE light harness back near the back of the fender. With all the wiring complete and secure turn your Jeep key on and test your LED lights. Check turn signal and running lights.



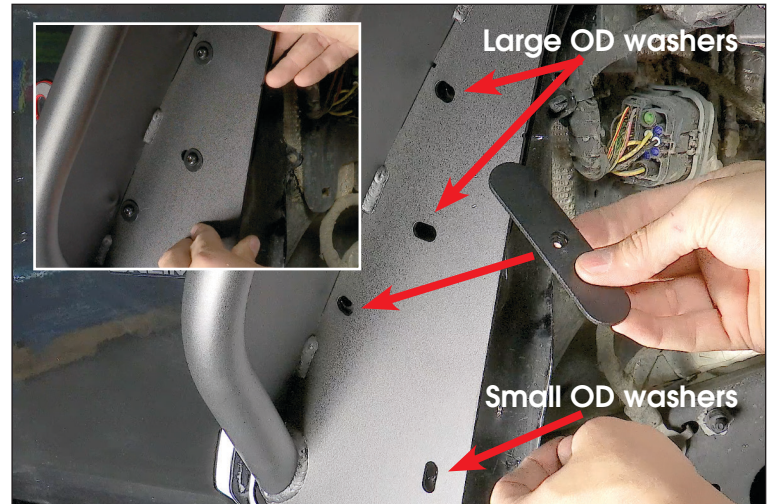
18. Now attach the remaining hardware of the fender to the Jeep body. Notice at the top mounting location requires a bolt plate because its to difficult to hold a nut between the fender liners. Hold bolt plate into position, see the bolt plate threads and thread the bolt to the nut plate.



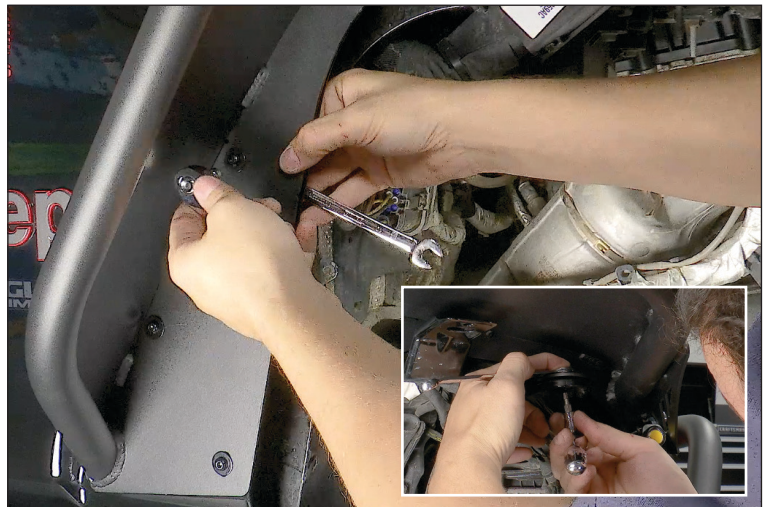


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19. Continue to secure each hole of the fender with button head bolts, washers and nuts. Use the Large OD washers against the holes that meet the fender sheet metal. Note the location of washers used to the right.



20. Now fully tighten all hardware. DO NOT use air or power tools to tighten. Tighten in a alternating pattern and repeat to fully secure. That completes the install of your front fenders.





## Rugged Ridge Rear Steel Tube Fenders, JL



### Components

1. Steel Tube Fender, Driver Side.....	1	6. M6 Steel Washer .....	28
2. Steel Tube Fender, Passenger Side.....	1	7. M6 Plastic Washer.....	18
3. M6 x 25mm Button Head Bolt .....	14	8. M6 Nutsert .....	8
4. M6 x 30mm Button Head Bolt .....	2	9. M6 Ny-Lock Nut .....	10
5. M6 x 35mm Button Head Bolt .....	2		

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## Rugged Ridge Rear Steel Tube Fenders, JL

1. Start by releasing inner fender liner retainers. This will require prying all the plastic trees that join the liner to the Jeep body. Try to pry the trees out but in many cases it is easier to cut the head of the retainer off with snips.



2. With the inner liner loose now you can remove the entire fender. Grab the fender and pull the fender away from the body. It's attached with clips. When pulling it away the clips will probably break but its okay your not reusing them. Start pulling from one corner and work your way to the other side of the fender.



3. With the OE fender and liner removed clean the body of the Jeep in this area. This area retains mud and dust. If you see any scratches or paint is rubbed away, prep and paint areas to assist in rust prevention.





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4. Remove the lower rear splash shield. It requires removing the three M8 bolts attaching it.



5. Remove the plastic shield from the bumper. It also has three M8 bolts attaching it.



6. Now remove the inner splash shield brace. There are two bolts at the bumper and two bolts at the frame to remove.





## Rugged Ridge Rear Steel Tube Fenders, JL

7. Place fender into position to see which holes you will be using in the body of the Jeep. In most cases the holes are accessible and will require a bolt washers and nut. There are four holes that require a nutsert, mark the holes that require the nutsert.



8. There is NO drilling necessary for this install. The nutserts will fit into the factory holes you marked in the previous step. To properly install we highly recommend using a nutsert tool. Insert nutserts into the Jeep body using the tool to crush the nutsert to the body. Take your time and assure each nutsert is crimped fully to avoid it from spinning or from being crooked.



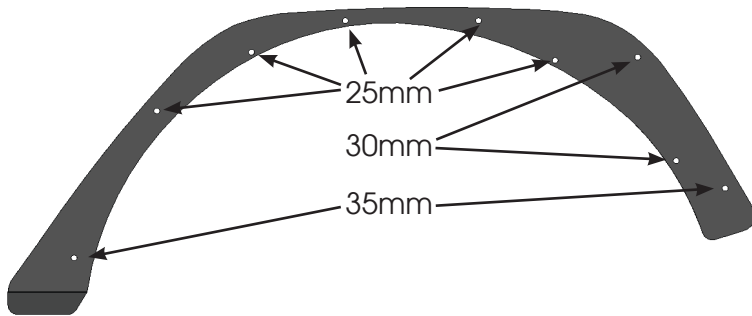
9. Before installing the fender pre install the plastic washers to the fender. The plastic washers are used to protect the paint and body of the Jeep. To hold the washers in place we used small pieces of electrical tape.





## Rugged Ridge Rear Steel Tube Fenders, JL

10. Place fender into position. It is best to have a assistant to lift and hold the fender in place as you install the hardware. Start with the top two button head bolts with washers and Ny-Lock nuts. There are three lengths of button head bolts used. Follow diagram here for correct bolt placement.



11. Now fully tighten hardware in a alternating pattern. Avoid using power or air tools. The last button head towards the rear of the fender is tight to the tube, it requires a short Allen head key to hold and tighten. This completes the install.

