



Preparation:

- Disconnect the negative battery terminal. Park the vehicle on level ground and set the emergency brake.
- We recommend reading through the installation instructions in whole before performing the work.
- When button head bolts are being used, install the supplied washer on the nut side. Then, hold the bolt stationary and only turn the nut to tighten. Do not turn the bolt to tighten hardware assembly, unless otherwise noted.
- If using a washer on the head side of a bolt, be sure the washer does not contact any weld seams.
- Estimated Installation Time: **2 Hours for OEM Removal/Bumper Installation**
1 Additional Hour to Wire Center Lights
1 Additional Hour to Wire Cube Lights
1.5 Additional Hours for Winch Installation

****This installation requires 2 people for best results****

****Labor Rates are based on a vehicle with no pre-existing damage. Wiring labor is based on a standard wiring procedure with light switches installed in an easily accessible location. Custom light triggering or switch mounting location will result in a greater labor charge.****

You will need the following tools:

- | | | |
|-----------------------------|-------------------|-----------------------------|
| - Ratchet | - 13mm Socket | - 16mm Socket |
| - 18mm Socket | - 3/4" Wrench | - 9/16" Socket |
| - Drill | - 9/16" Drill Bit | - 5/16" Allen Wrench/Socket |
| - 7/32" Allen Wrench/Socket | - 9/16" Wrench | |

Included in Kit:

- | | |
|--|--|
| 8 - Button Head Bolts (1/2-13 x 1 1/2") | 8 - Flat Washers (1/2") |
| 8 - Nylon Lock Nuts (1/2"-13) | 4 - Button Head Bolts (3/8-16 x 1") |
| 4 - Black Flat Washers (3/8") | 4 - Nylon Lock Nuts (3/8"-16) |
| 2 - Hex Head Bolts (3/8-16 x 1") | 2 - Flat Washers (3/8") |
| 2 - Rivet Nuts (3/8"-16) | 1 - Grade 8 Bolt (3/8"-16 x 1 1/2") |
| 2 - Grade 8 Washers (3/8") | 1 - Hex Nut (1/2"-13) |
| 1 - Winch Mounting Plate | 4 - Bumper Mounting Spacers |

Removal:

1. Remove the two plastic clips referenced in (Fig A).



Fig A



2. If your Jeep has 6 additional clips on the front lip of the plastic bumper cover, remove those clips now. Once those clips are removed, you may pull the plastic cover off the vehicle. (Fig B)



Fig B

3. Unplug the front bumper harness located along the passenger side frame rail. (Fig C)



Fig C



4. Use a 13mm Socket to remove both lower skid plate bolts. (Fig D)



5. Using an 18mm Socket, remove the bumper mounting bolts (4 per side). Then, remove the bumper from the vehicle. (Fig E)





6. Using a 16mm Socket, remove the bolts referenced in (Fig F). Then, remove the skid mounting plate.



Fig F

7. Use a 16mm Socket to remove the two bolts (per side) on each frame stilt. Then, remove the plate from each frame stilt. (Fig G)

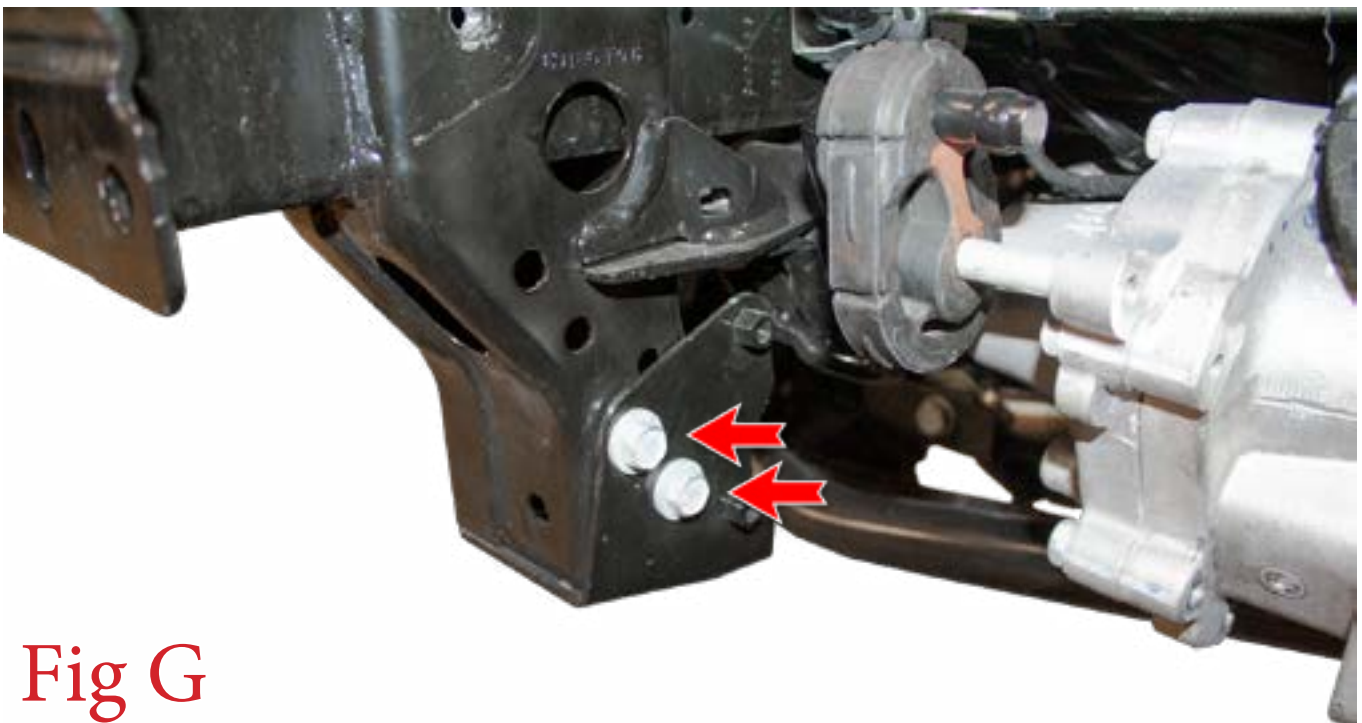


Fig G



8. Using a 16mm Socket, remove the mounting bolt for the inner frame rail gusset (towards the inside of the truck). Then, remove this gusset. Repeat this step on the other side of the truck. (Fig H) **Save this bolt for reuse.**

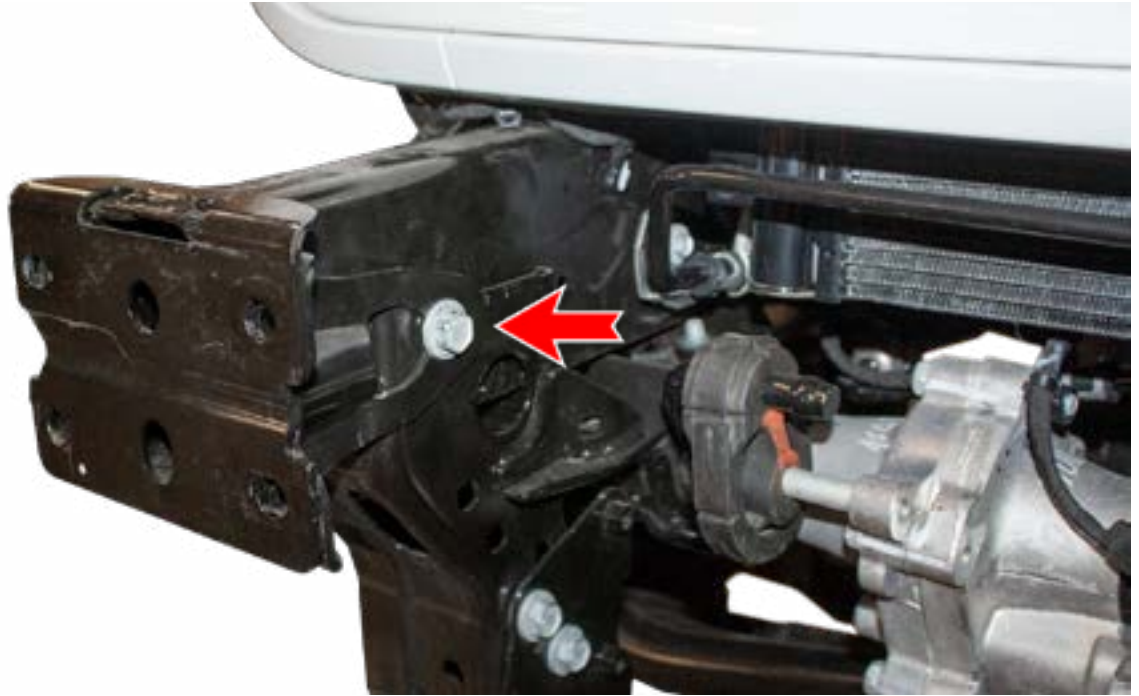


Fig H

9. Use a 9/16" Drill Bit to drill out the hole on the inner side of the frame stilt referenced in (Fig I). Repeat this step on the other side of the vehicle.



Fig I



Installation:

10. Find the supplied 3/8" Grade 8 Bolt (x1), 3/8" Grade 8 Washers (x2), and 1/2" Nut (x1). Assemble them as shown in (Fig J) to create a rivet nut installation tool. Once this tool has been assembled, place the supplied 3/8" Rivet Nuts in the newly drilled holes. Loosely thread the rivet nut installation tool into the rivet nuts. Then, while holding the 1/2" Nut steady, thread the rivet nut tool into the rivet nut until it gets tight. Once it is tight, back the tool out and the rivet nut will be set.



Fig J



11. If you have any lights to install on your bumper, now is a good time to do so. Use the supplied universal light mount kit to mount the light in the center of the bumper. Use the hardware supplied with the cube lights to install those. Instructions for our universal light mount kit can be found here:

<https://www.addictivedesertdesigns.com/universal-light-mount-kit-ACNA158501NA/>

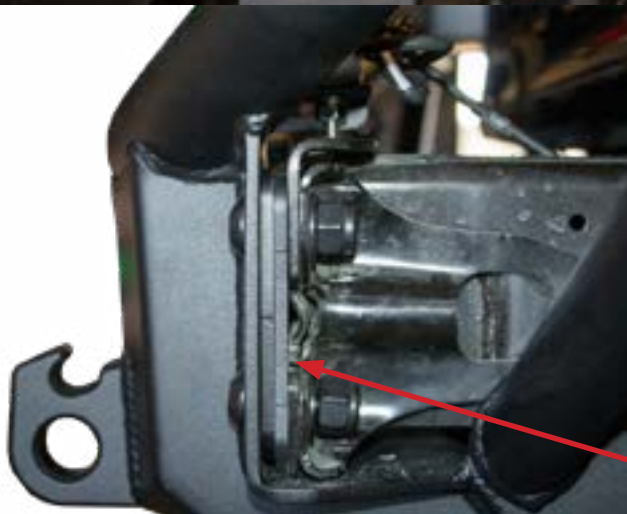
12. Set the bumper in place on the vehicle. Use the supplied 1/2" Bolts (x8), 1/2" Washers (x8) and 1/2" Lock Nuts (x8) to secure the bumper. Leave these bolts loose for now. (Fig K) **If you are installing this bumper on a non-Rubicon trim level, you must install two of the supplied spacers between the bumper and each frame horn (4 total).**

As you install the bumper, also make sure the hardware from your cube lights does not contact the top of the frame rail. If the cube light hardware does make contact, you will have to trim the extra threads off the cube light mounting bolt.

If your 1/2" Hardware does not fit through the outer holes, you may have to loosen the 16mm Bolt holding the frame horn gusset



You may have to loosen this bolt to get the 1/2" Hardware to fit through the holes on the frame horn.



On Non-Rubicon Models ONLY, add 2 of the supplied spacers between the bumper and each frame rail as shown.

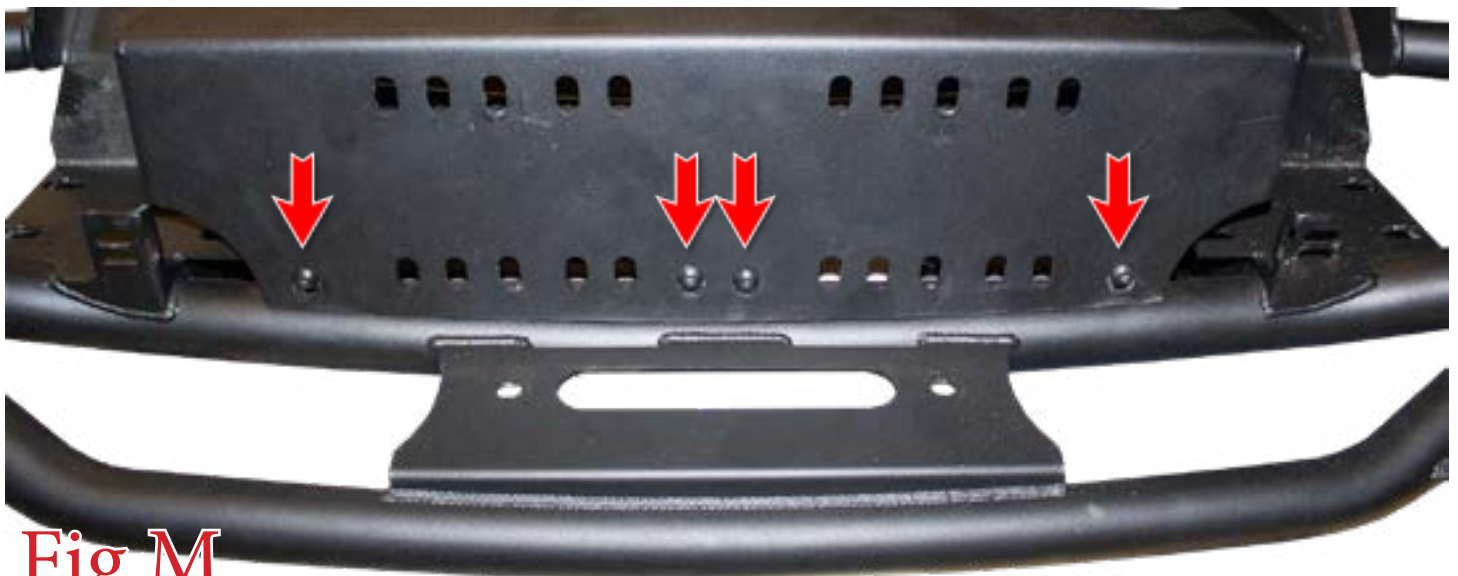
Fig K



13. Install the supplied Winch Plate onto the vehicle. Use the bolt that was set aside in Step 8 and the supplied 3/8" Hex Head Bolts (x2) and 3/8" Silver Washers (x2). Leave these bolts loose for now. (Fig L)



14. Use the supplied 3/8" Button Head Bolts (x4), 3/8" Washers (x4), and 3/8" Lock Nuts (x4) to bolt the winch plate to the bumper. Leave these bolts loose for now. (Fig M)





15. Align the bumper so it is straight in relation to the vehicle's grille/fenders. Then, tighten the 1/2" mounting bolts from Step 12 to 70 foot pounds. If you had to loosen the frame horn gusset bolt, tighten that to OEM torque spec at this time.
16. Tighten the OEM bolts from Step 13 to OEM torque spec. Tighten the supplied 3/8" bolt from Step 13 to 25 foot pounds.
17. Tighten the bolts from Step 14 to 25 foot pounds.
18. If you have a winch to install on your bumper, do so now. Use the winch manufacturer's installation guide for mounting/wiring information.
19. Follow your light manufacturer's installation guide for wiring information.
20. Stand back and enjoy your new ADD PRO™ Bolt-on Front Bumper.
21. Check and re-tighten, if needed, all mounting bolts after 100 miles and periodically thereafter.

