

REDROCK

BARDE FRONT BUMPER

PART #: T618664

FITS:

2015-2017 Ford F150
(Incl. EcoBoost engine models)



90-180 min



Cutting Not
Required



Drilling Not
Required

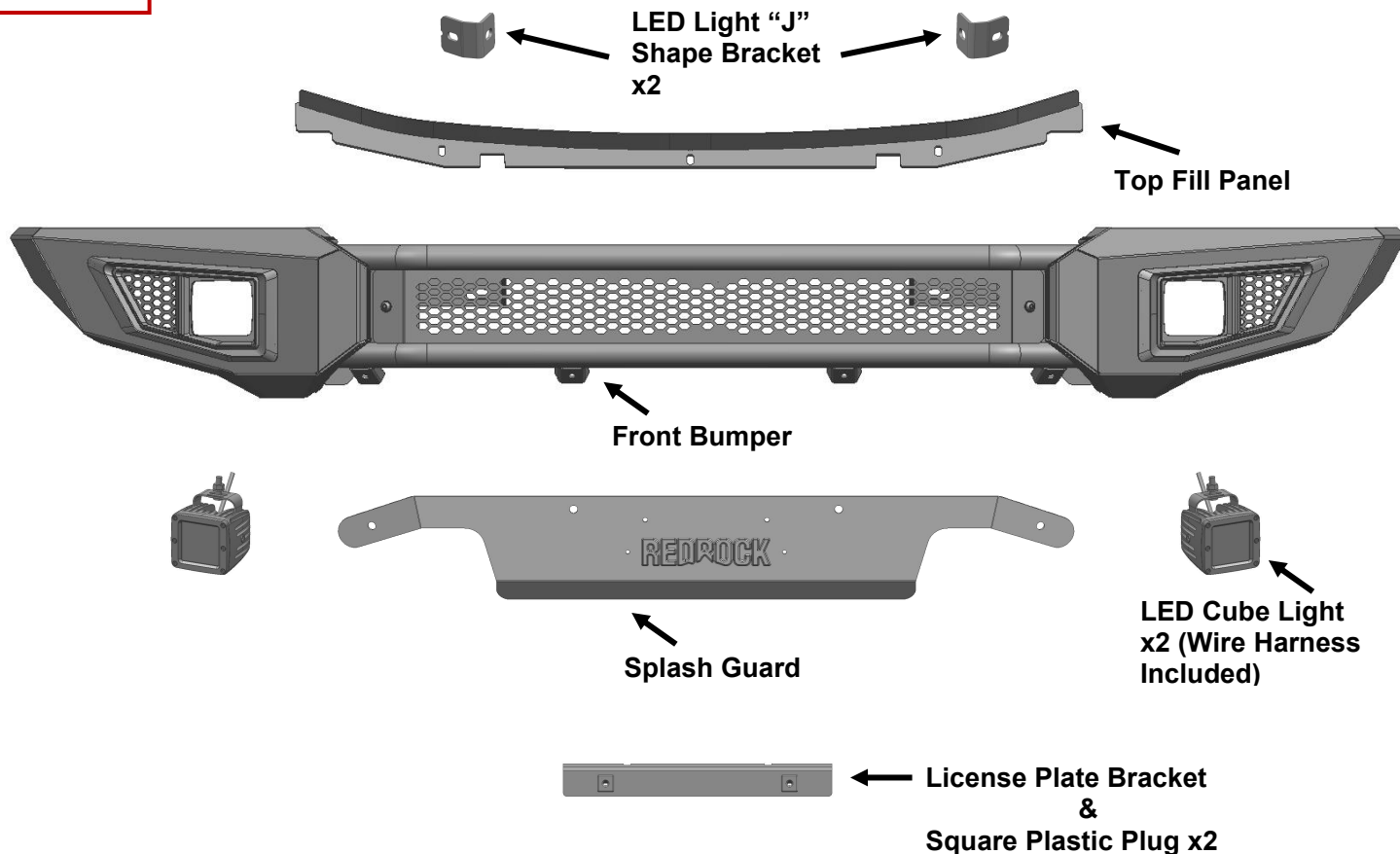
Torque & Tools

Fastener Size	Tightening Torque (ft-lbs)	Wrench Required		Allen Wrench Required	
■ 6mm	■ 7-8.5		□ 10mm		■ 4mm
■ 8mm	■ 18-20		■ 13mm		■ 5mm
■ 10mm	■ 35-40		■ 16mm		□ 6mm
■ 12mm	■ 60-70		■ 18mm		□ 8mm

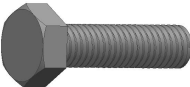


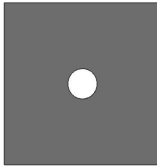




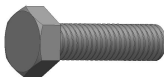










BEFORE INSTALLATION

REMOVE CONTENTS FROM BOX. VERIFY ALL PARTS ARE PRESENT
DEPEND ON THE PARTS LIST. READ INSTRUCTIONS CAREFULLY. BUMPER
IS HEAVY, ASSISTANCE IS HIGHLY RECOMMENDED TO AVOID POSSIBLE
INJURY OR DAMAGE TO THE VEHICLE.

Part List



REDROCK

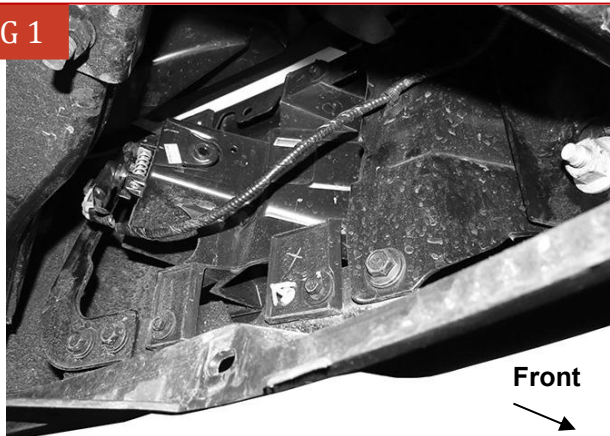
Use to Attach Wings to Bumper:	<div></div> <div>x4</div> <div>10mm x 30mm Hex Bolt</div>	<div></div> <div>x4</div> <div>10mm x 20mm x 2mm Flat Washer</div>	<div></div> <div>x4</div> <div>10mm Lock Washer</div>	
Use to Attach Bumper to the Vehicle:	<div></div> <div>x4</div> <div>12mm Plastic Retainer</div>			
Use to Attach Splash Guard to the Bumper:	<div></div> <div>x4</div> <div>8mm x 25mm Button Head Bolt</div>	<div></div> <div>x4</div> <div>8mm Lock Washer</div>	<div></div> <div>x4</div> <div>8mm x 24mm Flat Washer</div>	<div></div> <div>x1</div> <div>5mm Allen Wrench</div>
Use to Attach 30" LED Light Bar to the "J" Shape Brackets: (Light Bar Not Included)	<div></div> <div>x2</div> <div>8mm x 16mm Hex Bolt</div>	<div></div> <div>x2</div> <div>8mm Lock Washer</div>	<div></div> <div>x2</div> <div>8mm x 24mm x 2mm Flat Washer</div>	
Use to Attach Top Filler Panel to the Bumper:	<div></div> <div>x3</div> <div>6mm x 20mm Button Head Bolt</div>	<div></div> <div>x3</div> <div>6mm x 12mm x 1.6mm Flat Washer</div>	<div></div> <div>x3</div> <div>6mm x 18mm x 1.6mm Flat Washer</div>	<div></div> <div>x3</div> <div>6mm Nylon Lock Nut</div>
Use to Attach License Plate Bracket to the Splash Guard:	<div></div> <div>x2</div> <div>6mm x 20mm Button Head Bolt</div>	<div></div> <div>x4</div> <div>6mm x 18mm x 1.6mm Flat Washer</div>	<div></div> <div>x2</div> <div>6mm Nylon Lock Nut</div>	<div></div> <div>x1</div> <div>4mm Allen Wrench</div>

REDROCK

STEP 1

Unplug the fog lights, if equipped, **(Fig 1)**. Unplug all wiring harnesses leading to the bumper. Move all wiring harnesses away from bumper.

FIG 1

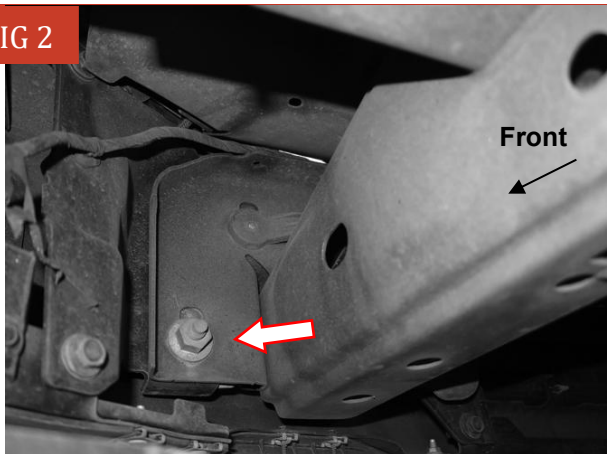


(Fig 1) Unplug and move factory wiring harness for fog lights (if equipped)

STEP 2

Place blocks or jack stands under the front bumper to support it during mounting bolt removal. Once the bumper has been safely supported, remove the large hex nut from the back of the driver/left bumper bracket attaching the lower bumper to the bumper bracket, **(Fig 2)**. Repeat to remove the nut from the passenger /right side of the bumper.

FIG 2



(Fig 2) Remove lower factory hex nut (arrow) from back of bumper bracket (driver/left side pictured)

STEP 3

Remove the license plate and bracket. Remove the plastic bumper pad assembly, **(Fig 3)**. **NOTE:** Carefully pull bumper pad straight out from bumper. Unplug and remove the adaptive cruise control, if equipped, **(Fig 4)**. Bumper is not compatible with ACC sensor and it must be relocated if desired.

FIG 3



(Fig 3) Remove license plate and bracket. Carefully pull plastic bumper pad off of bumper

FIG 4



(Fig 4) Remove and unplug adaptive cruise control from driver/left side of frame (if equipped)



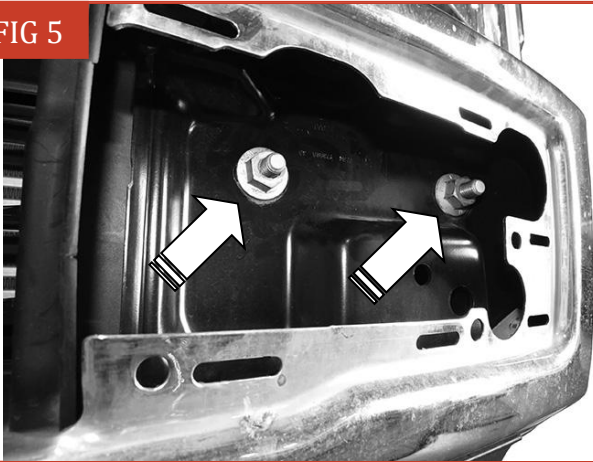
WARNING! Do not crawl under bumper unless it is properly supported on blocks or stands or the bumper may fall.

REDROCK

STEP 4

Next, remove the (2) factory hex nuts attaching the driver/left side of the bumper to the bumper bracket, **(Fig 5)**. Repeat this **Step** to remove the passenger/right side hex nuts. **WARNING!** Assistance is required to hold the bumper in place during bolt removal to prevent the bumper from falling. Carefully slide the bumper off over the tow hooks.

FIG 5

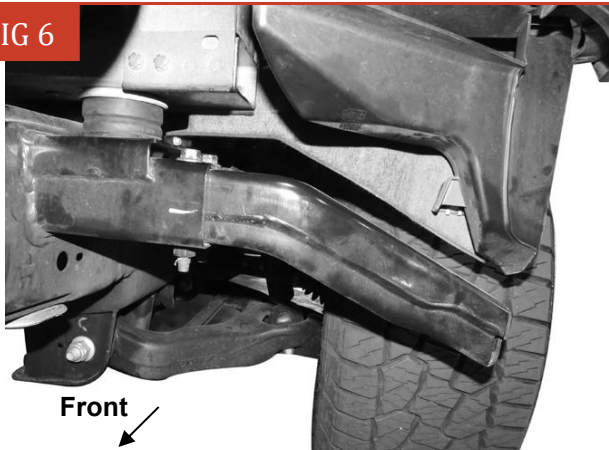


(Fig 5) Remove (2) factory hex nuts from each side

STEP 5

On models with bolt on frame extensions, remove the extensions from outside of frame if desired, **(Fig 6)**. **NOTE:** On some models the factory bolts may need to be cut to remove frame extensions.

FIG 6

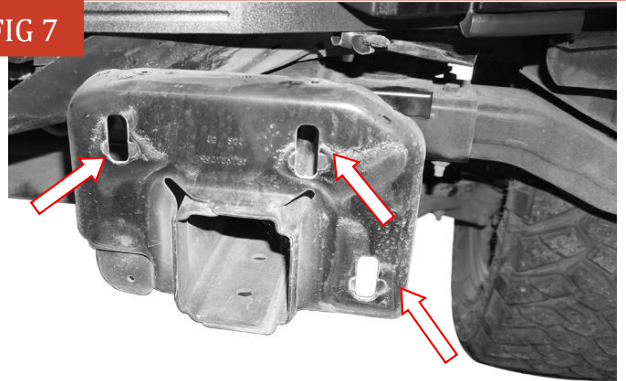


(Fig 6) Remove the factory frame extension, if equipped

STEP 6

Use a small flat blade screwdriver to remove the clips from the factory double bolt plates on the end of the frame, **(Fig 7)**. Also remove the (2) lower single bolt plates from the back of the factory bumper.

FIG 7

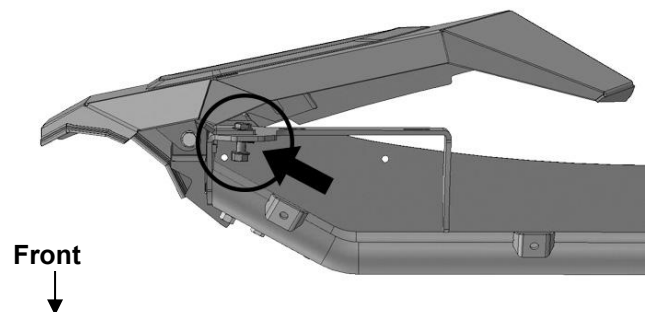


(Fig 7) Remove the double bolt plates from the bumper mounts. Also remove the single bolt plates from the back of the bumper

STEP 7

Carefully unwrap the Bumper assembly. Remove the (2) 10mm Hex Bolts holding the folded wings securely in place for shipping, **(Fig 8)**. Discard bolts.

FIG 8

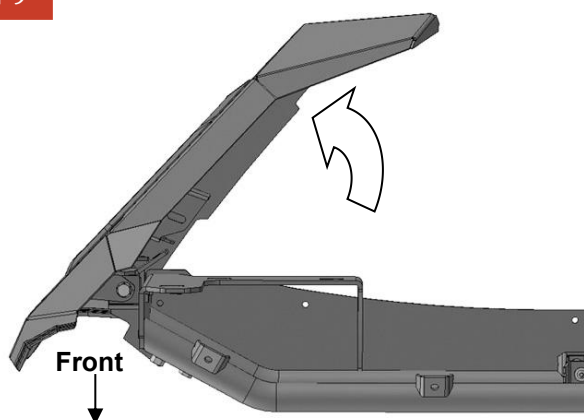


(Fig 8) Remove the hex bolt from the Bumper to release the Wing

STEP 8

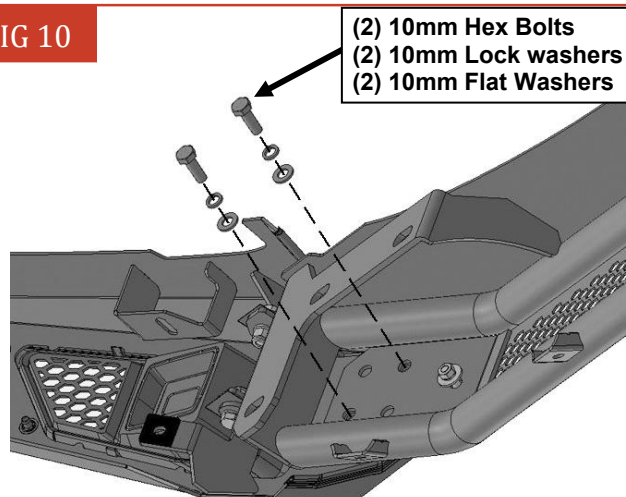
Rotate the driver/left side Outer Wing outward as far as it will go until the mounting plate is against the back of the center Bumper, **(Fig 9)**. Attach the Wing to the Bumper with the included (2) 10mm x 30mm Hex Bolts, (2) 10mm Lock Washers and (2) 10mm Flat Washers, **(Fig 10)**. Repeat this Step to unfold the passenger/right outer wing. Do not fully tighten hardware at this time.

FIG 9



(Fig 9) Rotate the Wing all the way around until it stops (driver/left side illustrated)

FIG 10



(Fig 10) Attach Wing to Bumper (driver/left side illustrated)

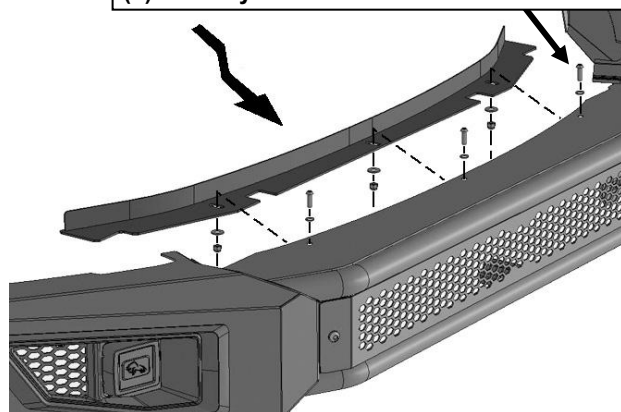
STEP 9

Select the Bumper Top Fill Panel, **(Fig 11)**. Attach the Fill Panel to inside of the top of the Bumper with the included (3) 6mm x 20mm Button Head Bolts, (3) 6mm x 12mm Small Flat Washers (outside), (3) 6mm x 18mm Large Flat Washers (inside), and (3) Nylon Lock Nuts, **(Fig 12)**.

NOTE: There is some in/out adjustment in the mounting slots on the Fill Panel. On models equipped with EcoBoost, hold Bumper up in place to check fit of Fill Panel to vehicle before installing Bumper and tightening hardware. Hardware is difficult to access after Bumper installation.

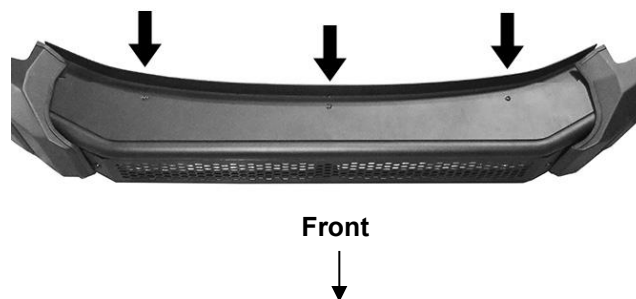
FIG 11

- (3) 6mm x 20mm Button Head Bolts
- (3) 6mm x 12mm Small Flat Washers (top)
- (3) 6mm x 18mm Large Flat Washers (inside)
- (3) 6mm Nylon Lock Nuts



(Fig 11) Attach Top Fill Panel to inside of Bumper

FIG 12



(Fig 12) Push Top Fill Panel in and tighten hardware

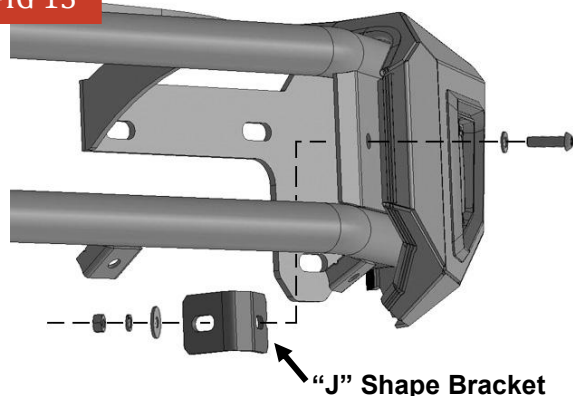
STEP 10

Determine if accessory lights, (center light not included), will be installed at this time. **NOTE:** It may be easier to install the center light before installing Bumper. **IMPORTANT:** On EcoBoost models, center LED Light installation is not recommended. Blocking the intercooler may cause overheating.

Center LED bar style light installation (light not included).

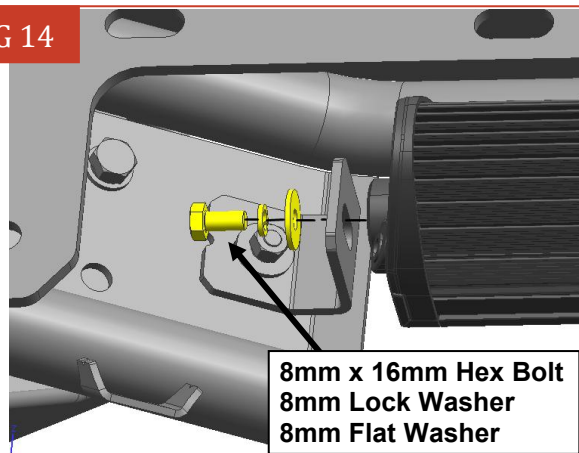
- Remove the center mesh fill panel, (Fig 13).
- Select (1) **"J" Shape Bracket**. Reuse the hardware from the fill panel to attach the "J" Shape Bracket to the back of the driver/left side of the Bumper, (Fig 13). Repeat this **Step** to install the remaining "J" Shape Bracket on the passenger/right side of the Bumper. **IMPORTANT:** The Bumper features mounting location designed for **30" bar style lights** only.
- Attach the light to the "J" Shape Brackets with the hardware included with the light or the supplied (2) 8mm x 16mm Hex Bolts, (2) 8mm Lock Washers and (2) 8mm Flat Washers, (Fig 14).

FIG 13



(Fig 13) Reuse hardware from center mesh panel to attach "J" Shape Bracket to back of Bumper. **Note:** the notched end of the "J" Shape Bracket face to the bumper (Driver/Left Side illustrated)

FIG 14



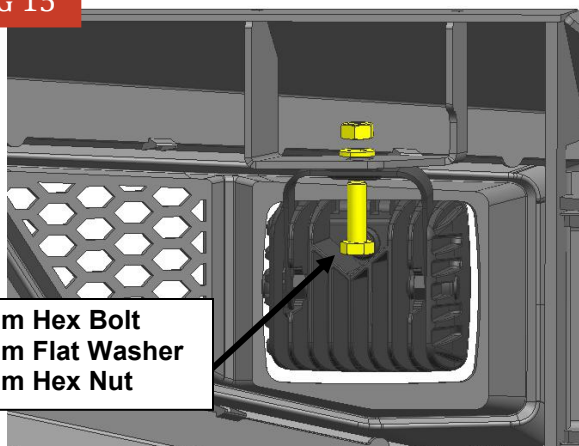
(Fig 14) Attach bar style LED light to "J" Shape Brackets (light not included)

STEP 11

Outer LED cube style light installation (Light & Wire Harness included).

- Attach the lights to the mounting tabs on the back of the Bumper with included (1) 8mm Hex Bolt, (1) 8mm Flat Washer, (1) 8mm Hex Nut, (Fig 15). **Note:** These standard parts included on the Cube Light Kit.
- Follow the light manufacturer's instruction to properly wire lights once Bumper is installed

FIG 15



(Fig 15) Attach the cube style LED lights to the mounting tabs (These standard parts included on the Cube Light Kit)

REDROCK

STEP 12

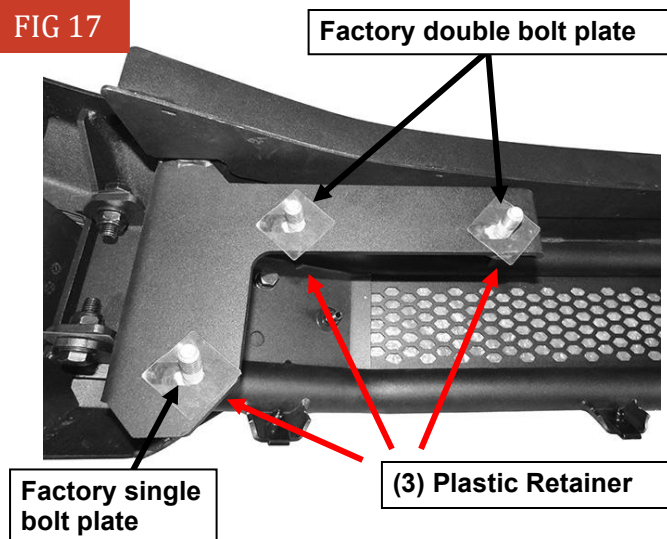
Select (1) factory double bolt plate from **Step 6**, (**Fig 16**). Insert the bolt plate through the back of the driver/left mounting plate on the back of the Modular Bumper and out through the top mounting slots, (**Fig 17**). Thread (2) 12mm Plastic Retainers onto the double bolt plate and up tight against the mounting plate to secure the bolt plate in place. Next, insert the factory single bolt plate into the lower mounting tab on the back of the Bumper, (**Fig 17**). Thread (1) 12mm Plastic Retainer onto the Bolt Plate. **NOTE:** The Plastic Retainers are used to hold the bolt plates in place and help in Bumper installation. Repeat this Step to install the factory bolt plates on the passenger/right side of the Bumper.

FIG 16



(Fig 16) factory double bolt plate

FIG 17



(Fig 17) Use the included (3) Plastic Retainers to hold the factory bolt plates in place on the back of the Bumper (driver/left side pictured)

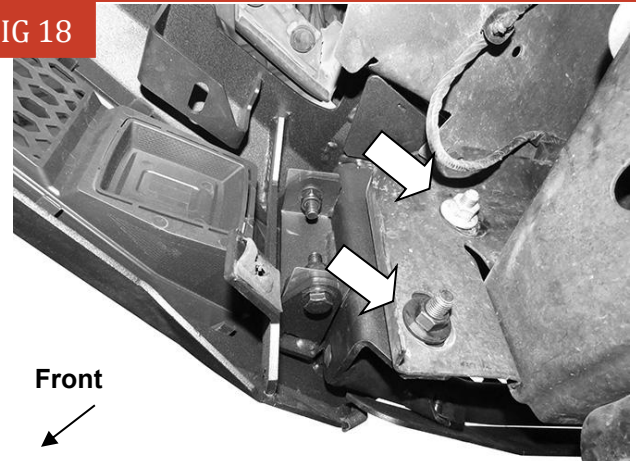
STEP 13

With assistance, position the Bumper Assembly up to the frame. Temporarily support the weight of the Bumper. **WARNING:** To avoid possible injury or damage to the vehicle, do not proceed until the bumper is fully and safely supported.

STEP 14

Reuse the (6) factory hex nuts to secure the Bumper to the bolt plates, (**Fig 18**). Do not fully tighten.

FIG 18



(Fig 18) Reuse factory hex nuts (arrows) to attach Bumper to end of the frame (driver/left installation pictured)

STEP 15

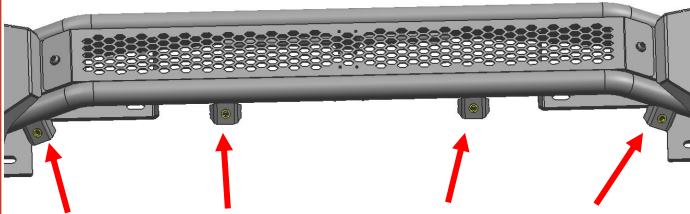
Level and adjust the Bumper and fully tighten all hardware. **NOTE:** There is a small amount of adjustment in the Wing attachment points. Adjust Wings for best fit then fully tighten all hardware.

REDROCK

STEP 16

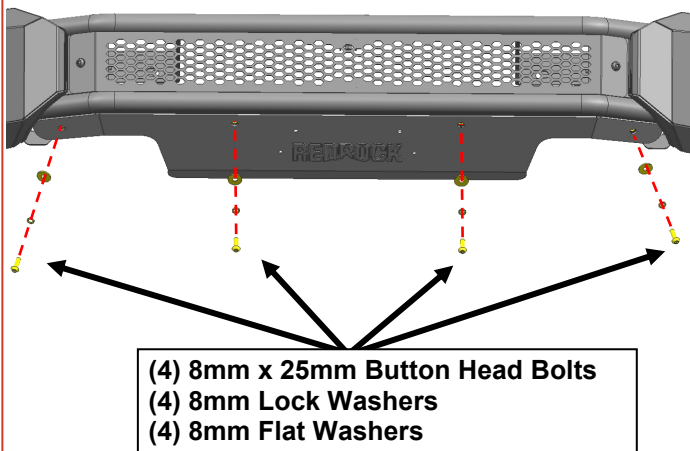
Locate the 4 Insert Nuts over the tab on the bottom of the Bumper, (**Fig 19**). Select the **Splash Guard**. Attach the Splash Guard to the bottom of the Bumper with the included (4) 8mm x 25mm Button Head Bolts, (4) 8mm Lock Washers and (4) 8mm Flat Washers, (**Fig 20**).

FIG 19



(Fig 19) Locate the 4 Insert Nuts over the tab

FIG 20

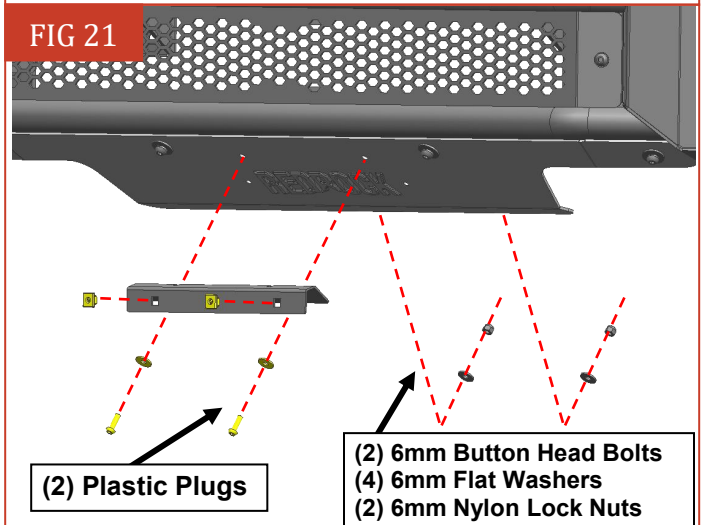


(Fig 20) Attach Splash Guard to Insert Nuts on bottom of Bumper

STEP 17

Attach the **License Plate Bracket** to the holes in the Splash Guard with the included (2) 6mm x 20mm Button Head Bolts, (4) 6mm Flat Washers and (2) 6mm Nylon Lock Nuts, (**Fig 21**). Insert (2) Plastic Plugs into the square holes in the Bracket. Reuse the factory screws to attach the license plate to the Plastic Plugs, (**Fig 21**).

FIG 21



(Fig 21) Attach License plate Bracket to the front of the Bumper

STEP 18

Do periodic inspections to the installation to make sure that all hardware is secure and tight.

Complete Installation

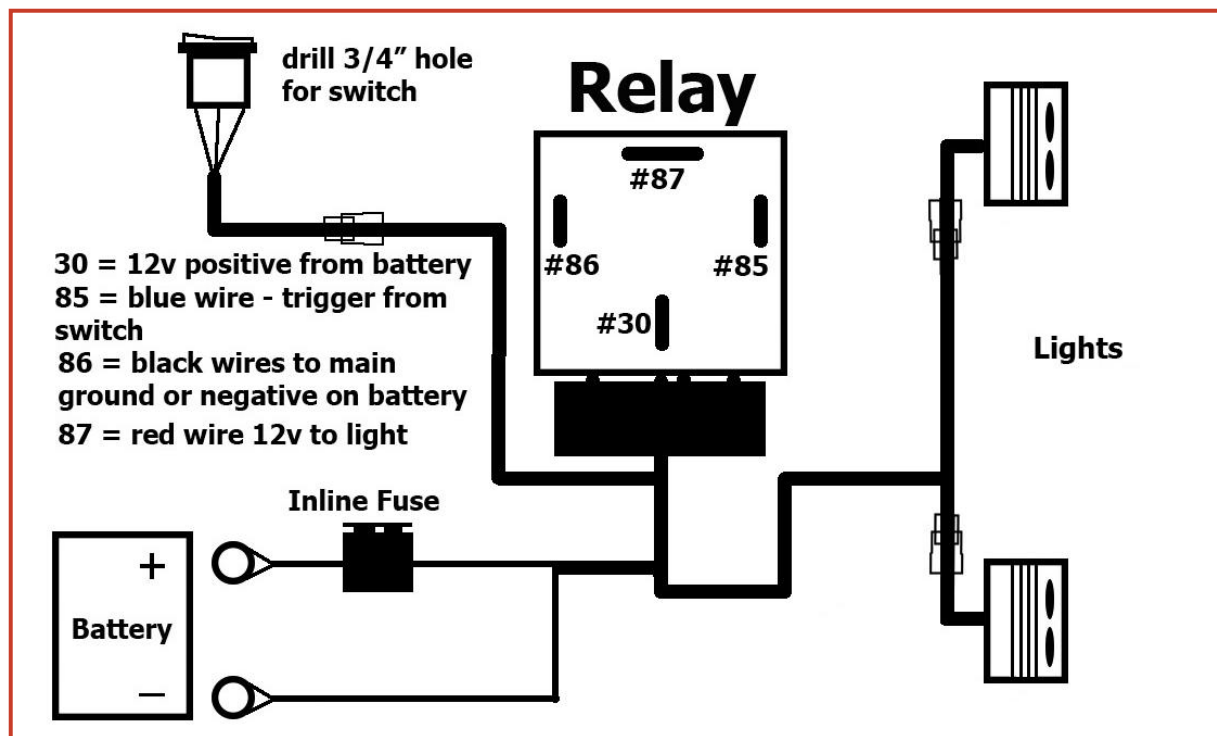


REDROCK

CUBE LED LIGHT INSTRUCTIONS

PARTS LIST:

Qty	Description	Qty	Description
2	Lights	2	8mm Flat Washer
1	Wiring Harness	2	8mm Hex Nut
2	8mm Hex Bolt		



PROCEDURE:

1. REMOVE CONTENTS FROM BOX. VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY. DRILLING IS REQUIRED. ELECTRICAL KNOWLEDGE IS HIGHLY RECOMMENDED.
2. Open hood and disconnect battery.
3. Unwrap preassembled wiring harness. Disconnect the plug in the harness leading to the lighted switch. Locate suitable mounting location for switch. Drill 3/4" hole in panel to mount switch. **IMPORTANT:** Do not drill any holes in panel until back of location is properly checked for clearance. Use of safety goggles is required.
4. Run switch harness through firewall on vehicle. Drill hole through firewall as required for harness plug. Highly recommend use of rubber grommet (not included) to protect harness. Feed switch harness plug through hole in firewall. Seal firewall with silicone as necessary.
5. Attach Relay and main harness to suitable location near battery (firewall or inner fender for example). Do not connect to battery at this time.
6. Attach switch plug to switch harness and tie harness away from anything that could damage harness.
7. Run the prewired light harness down to the light. Plug harness into prewired plug on each light. Tie wiring harness away from anything that could damage harness.
8. Attach the fused red positive and black negative wires on the main harness to the battery. **NOTE:** Attach black negative wire to negative terminal on battery or suitable chassis ground.
9. Reattach battery cables to battery. Installation is complete.
10. Adjust lights for best results and fully tighten all hardware.
11. Do periodic inspections to the installation to make sure that all hardware is secure and tight and all wiring harnesses are properly secured and free from excessive movement.