

REDROCK



BARDE FRONT BUMPER

PART #: T618665

FITS:

2021-Current Ford F150
(Excl. 2022-Current F150 Lighting EV)



90-180 min



Cutting May
Required



Drilling Not
Required

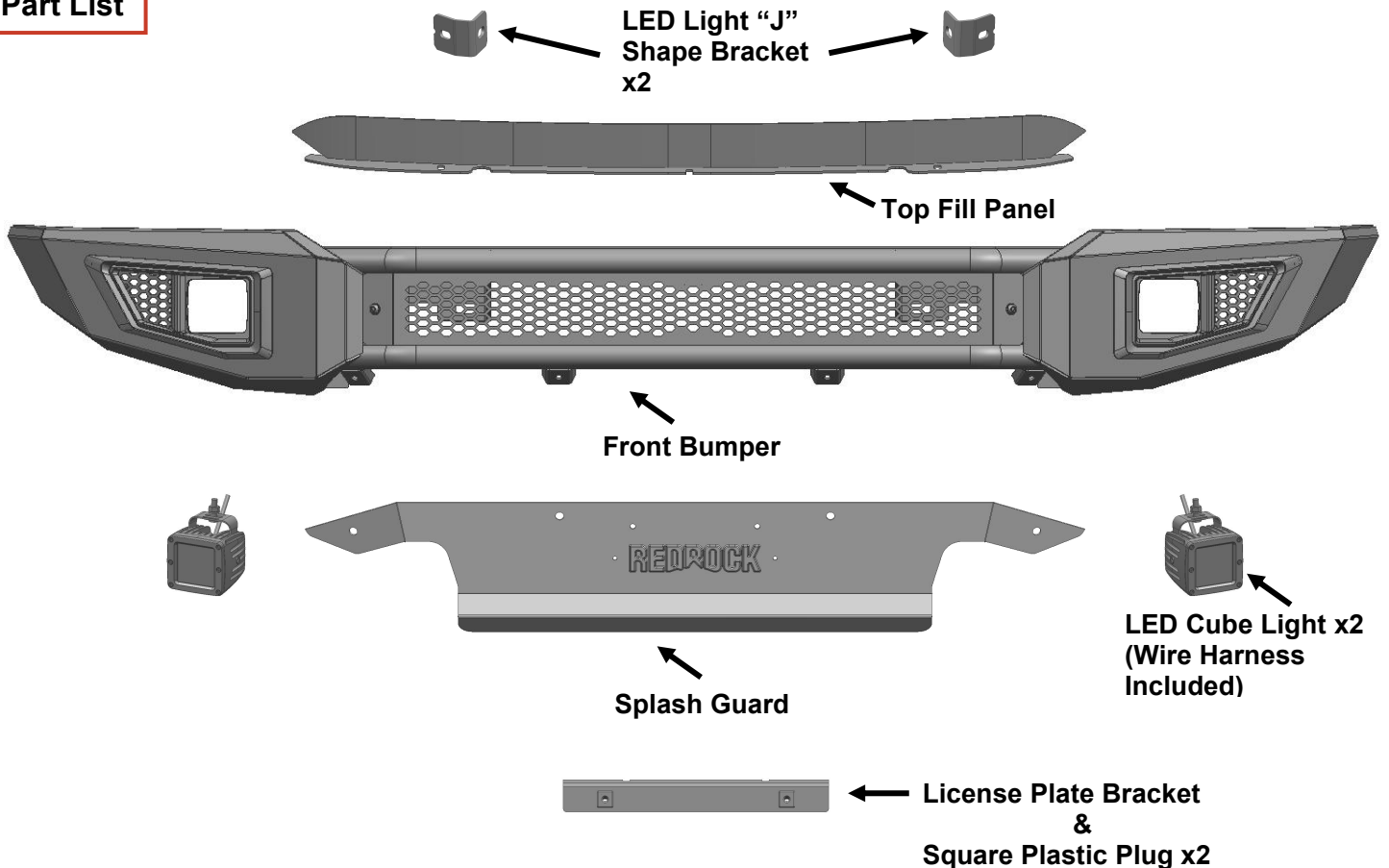
Torque & Tools

Fastener Size	Tightening Torque (ft-lbs)	Wrench Required		Allen Wrench Required	
			<input type="checkbox"/> 10mm		<input checked="" type="checkbox"/> 4mm
<input checked="" type="checkbox"/> 6mm	<input checked="" type="checkbox"/> 7-8.5		<input checked="" type="checkbox"/> 13mm		<input checked="" type="checkbox"/> 5mm
<input checked="" type="checkbox"/> 8mm	<input checked="" type="checkbox"/> 18-20		<input checked="" type="checkbox"/> 16mm		<input type="checkbox"/> 6mm
<input checked="" type="checkbox"/> 10mm	<input checked="" type="checkbox"/> 35-40		<input checked="" type="checkbox"/> 18mm		<input type="checkbox"/> 8mm
<input checked="" type="checkbox"/> 12mm	<input checked="" type="checkbox"/> 60-70				

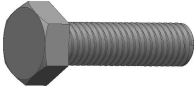
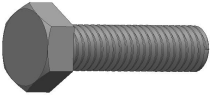

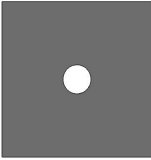
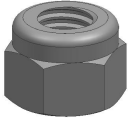




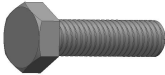










BEFORE INSTALLATION

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



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Use to Attach Wings to Bumper:	 x4 10mm x 30mm Hex Bolt			
Use to Attach Bumper to the Vehicle:	 x6 12mm x 35mm Hex Bolt	 x12 12mm x 32mm x 3mm Flat Washer	 x6 12mm Plastic Retainer	 x6 12mm Hex Nut
Use to Attach Splash Guard to the Bumper:	 x4 8mm x 25mm Button Head Bolt	 x4 8mm Lock Washer	 x4 8mm x 24mm Flat Washer	 x1 5mm Allen Wrench
Use to Attach 30" LED Light Bar to the "J" Shape Brackets: (Light Bar Not Included)	 x2 8mm x 16mm Hex Bolt (Stainless Steel)	 x2 8mm Lock Washer (Stainless Steel)	 x2 8mm x 24mm Flat Washer (Stainless Steel)	
Use to Attach Top Filler Panel to the Bumper:	 x3 6mm x 20mm Button Head Bolt	 x3 6mm x 12mm x 1.6mm Flat Washer	 x3 6mm x 18mm x 1.6mm Flat Washer	 x3 6mm Nylon Lock Nut
Use to Attach License Plate Bracket to the Splash Guard:	 x2 6mm x 20mm Button Head Bolt	 x4 6mm x 18mm x 1.6mm Flat Washer	 x2 6mm Nylon Lock Nut	 x1 4mm Allen Wrench

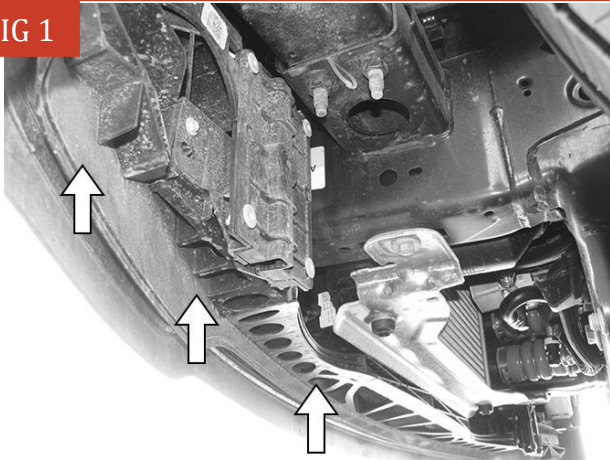
STEP 1

Remove the license plate and bracket.

STEP 2

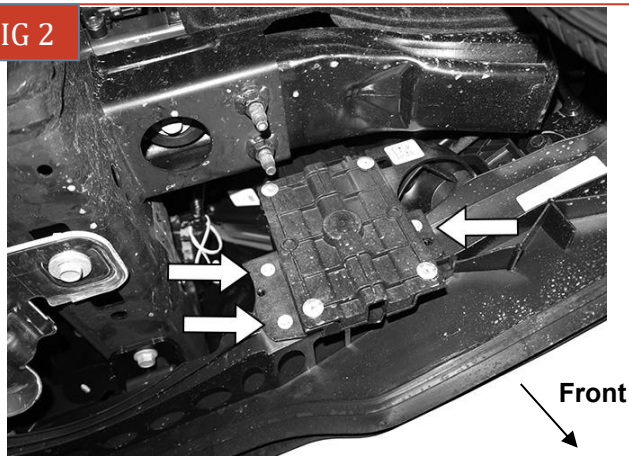
From behind the front bumper, unplug and remove the active air dam from the bottom of the frame, (Figs 1 & 2). It is not necessary to remove the lift motors, only remove the (6) bolts to remove the air dam.

FIG 1



(Fig 1) Active air dam behind bumper

FIG 2



(Fig 2) Remove bolts (arrows) to remove active air dam from motors (passenger/right side pictured)

STEP 3

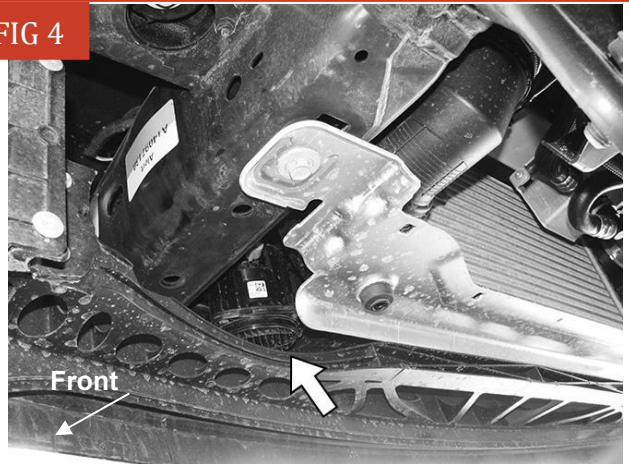
Locate and unplug the main harness plug on the top of the passenger/right frame rail behind the bumper bracket, (Fig 3). Unplug any remaining harnesses leading to the bumper. On hybrid models, temporarily unplug and remove the speaker assembly for the pedestrian audible alert system from the driver/left frame channel, (Fig 4). **NOTE:** Speaker is located on the inner side of the frame, behind the driver/left bumper bracket. From below, remove the hex bolt and drop the speaker down, unplug and remove, (Fig 5).

FIG 3



(Fig 3) Locate and unplug main harness plug on passenger/right side of bumper (arrow)

FIG 4



(Fig 4) Hybrid Models Only, locate alert speaker behind driver/left side of bumper

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FIG 5



(Fig 5) Remove bolt (arrow) to temporarily remove audible alert speaker located behind driver/left side of bumper (hybrid models only-pictured from below)

STEP 4

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 each bumper bracket attaching the bumper to the bumper bracket, (Fig 6). **WARNING!** Assistance is required to hold the bumper in place during hardware removal to prevent the bumper from falling. Carefully slide the bumper off over the tow hooks if equipped.

FIG 6



(Fig 6) Remove bumper. Also remove the factory frame extension (arrow-optional)

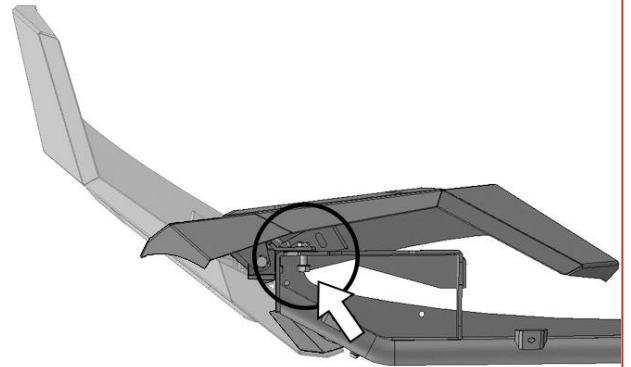
STEP 5

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

STEP 6

Carefully unwrap the Bumper assembly. Remove the (2) 10mm Hex Bolts holding the folded wings securely in place for shipping, (Fig 7). Discard bolts. 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 7).

FIG 7



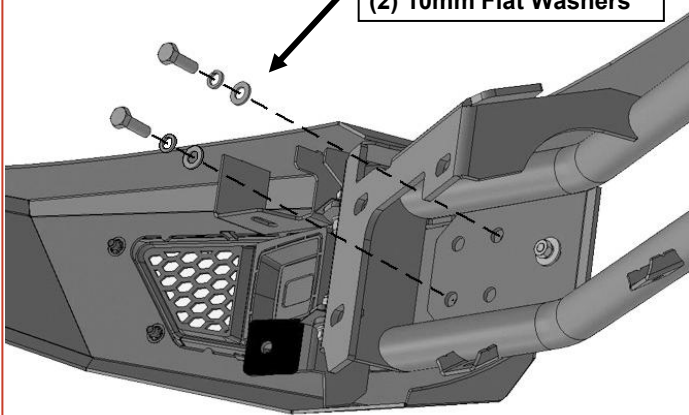
(Fig 7) Remove the hex bolt from the Bumper to release the Wing. Rotate the Wing all the way around until it stops.

STEP 7

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 8)**. Repeat this Step to unfold the passenger/right outer wing. Do not fully tighten hardware at this time.

FIG 8

(2) 10mm Hex Bolts
(2) 10mm Lock washers
(2) 10mm Flat Washers



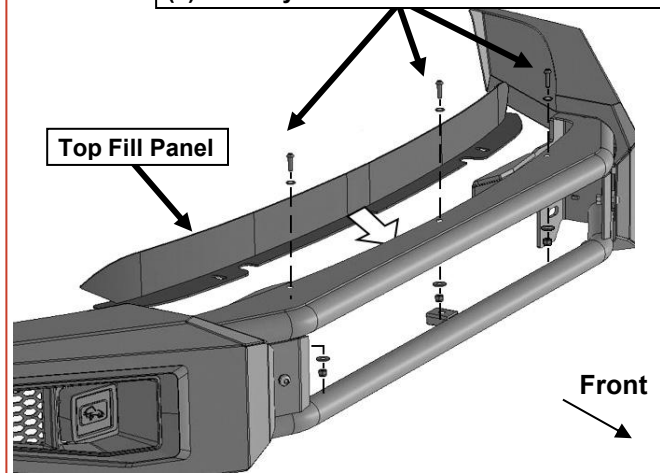
(Fig 8) Attach Wing to Bumper

STEP 8

Select the Top Fill Panel. Attach the Fill Panel to the inside of the top of the Bumper with the included (3) 6mm Button Head Bolts, (3) 6mm Small Flat Washers, (top), (3) 6mm Large Flat Washers, (bottom), and (3) 6mm Nylon Lock Nuts, **(Fig 9)**. Do not fully tighten hardware.

FIG 9

(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 9) Attach Top Fill Panel to inside of Bumper

STEP 9

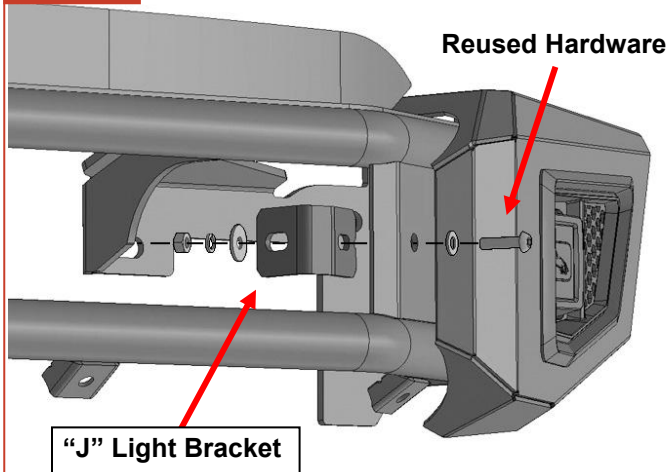
Determine if accessory lights, (center light not included), will be installed at this time. **NOTE:** It may be easier to install the center light before installing Bumper. **IMPORTANT:** On EcoBoost models, center LED Light installation is not recommended. Blocking the intercooler may cause overheating.

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

- Remove the center mesh fill panel
- 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 10)**. 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 11)**. Do not fully tighten hardware at this time.

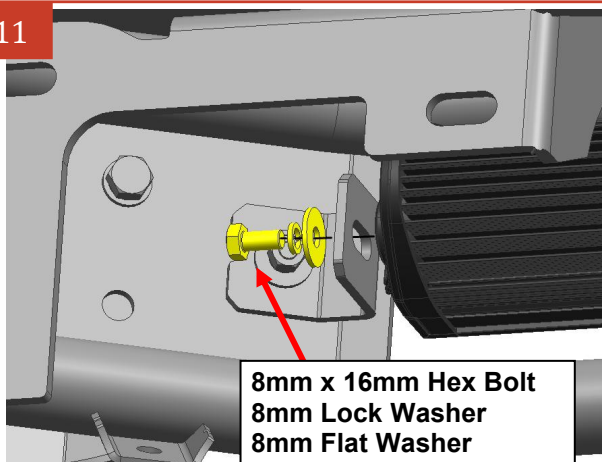
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FIG 10



(Fig 10) Reuse hardware from center screen to attach "J" Light Bracket to back of Bumper

FIG 11



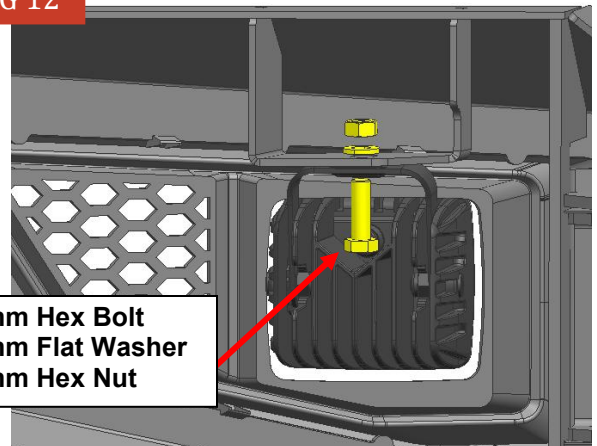
(Fig 11) Attach bar style LED light to "J" Light Brackets (light not included)

STEP 10

Outer LED cube style light installation (Light 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 12). **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 12

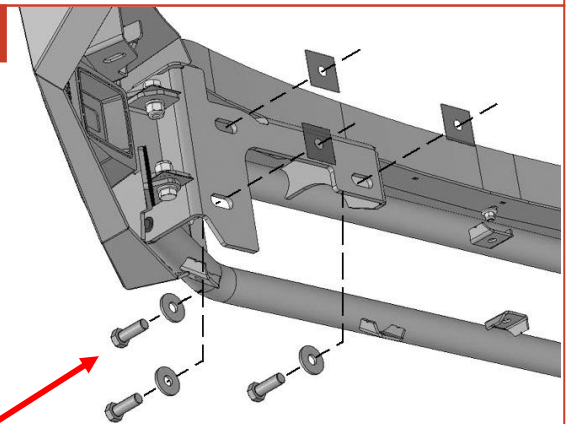


(Fig 12) Attach the cube style LED lights to the mounting tabs (These standard parts included on the Cube Light Kit)

STEP 11

Select (3) 12mm x 35mm Hex Bolts and (3) 12mm Flat Washers. From the front, insert the Hex Bolts and Washers through the three slots in the driver/left bumper mounting plate, then thread (3) 12mm Plastic Retainers onto the threaded Hex Bolts to hold in place. (Figs 13 & 14). Repeat this step to insert the remaining (3) 12mm Hex Bolts and (3) 12mm Flat Washers into the passenger side mounting plates of the Bumper. **NOTE:** The Plastic Retainers are used to hold the bolt plates in place and help in Bumper installation. Use is not mandatory for Bumper installation.

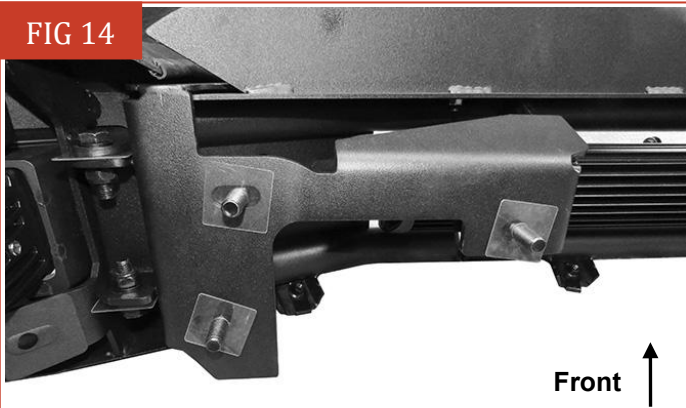
FIG 13



(Fig 13) Use the included (3) Plastic Retainers to hold the (3) 12mm Hex Bolts with Washers

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FIG 14



(Fig 14) (3) 12mm Hex Bolts and Washers held in place with Retainers

STEP 12

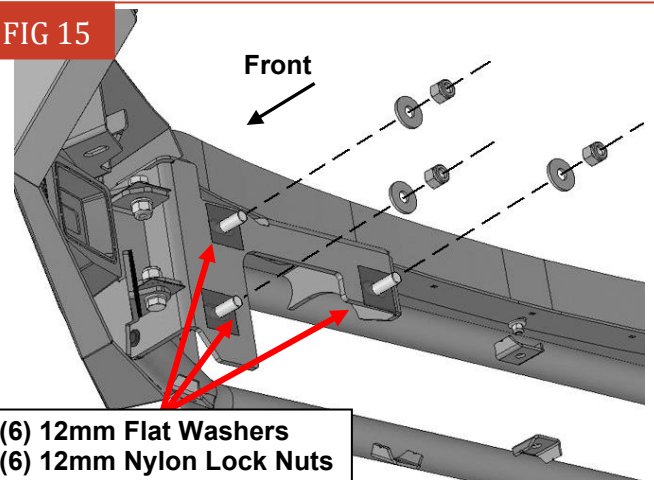
With assistance, position the Bumper Assembly up to the frame. Temporarily support the weight of the Bumper. **WARNING:** To avoid possible injury or damage to the vehicle, do not proceed until the bumper is fully and safely supported.

IMPORTANT: On models equipped with EcoBoost, mark and trim the plastic shroud to fit behind the Bumper if necessary.

STEP 13

Attach the Bumper to the end of the frame with the included (6) 12mm Flat Washers and (6) 12mm Nylon Lock Nuts, (Figs 15 & 16). Do not fully tighten.

FIG 15



(6) 12mm Flat Washers
(6) 12mm Nylon Lock Nuts

(Fig 15) Attach Bumper to end of frame

FIG 16



(Fig 16) Driver/left side of Bumper installed



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

STEP 14

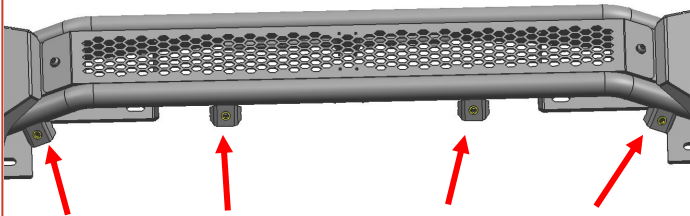
Level and adjust the Bumper and fully tighten all hardware. **NOTE:** There is a small amount of adjustment in the Wing attachment points. Adjust Wings for best fit then fully tighten all hardware.

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STEP 15

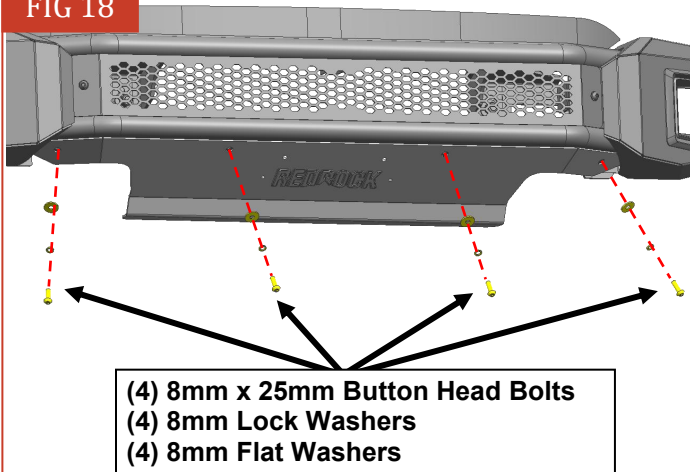
Locate the 4 Insert Nuts over the tab on the bottom of the Bumper, **(Fig 17)**. Line up the Nut with hole in tab. Select the **Splash Guard**. Attach the Splash Guard to the bottom of the Bumper with the included (4) 8mm x 25mm Button Head Bolts. (4) 8mm Lock Washers and (4) 8mm Flat Washers, **(Fig 18)**.

FIG 17



(Fig 17) Locate the 4 Insert Nuts over the tab

FIG 18

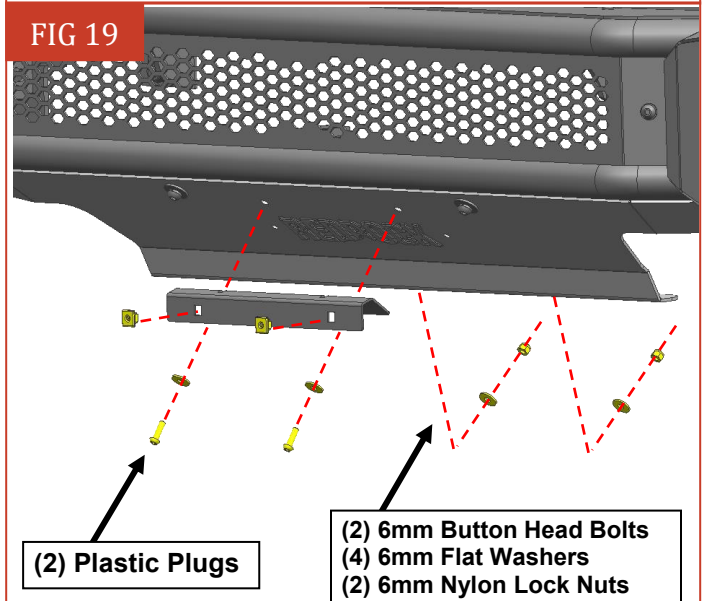


(Fig 18) Attach Splash Guard to Insert Nuts on bottom of Bumper

STEP 16

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 19)**. 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 19)**.

FIG 19



(Fig 19) Attach License plate Bracket to the front of the Bumper

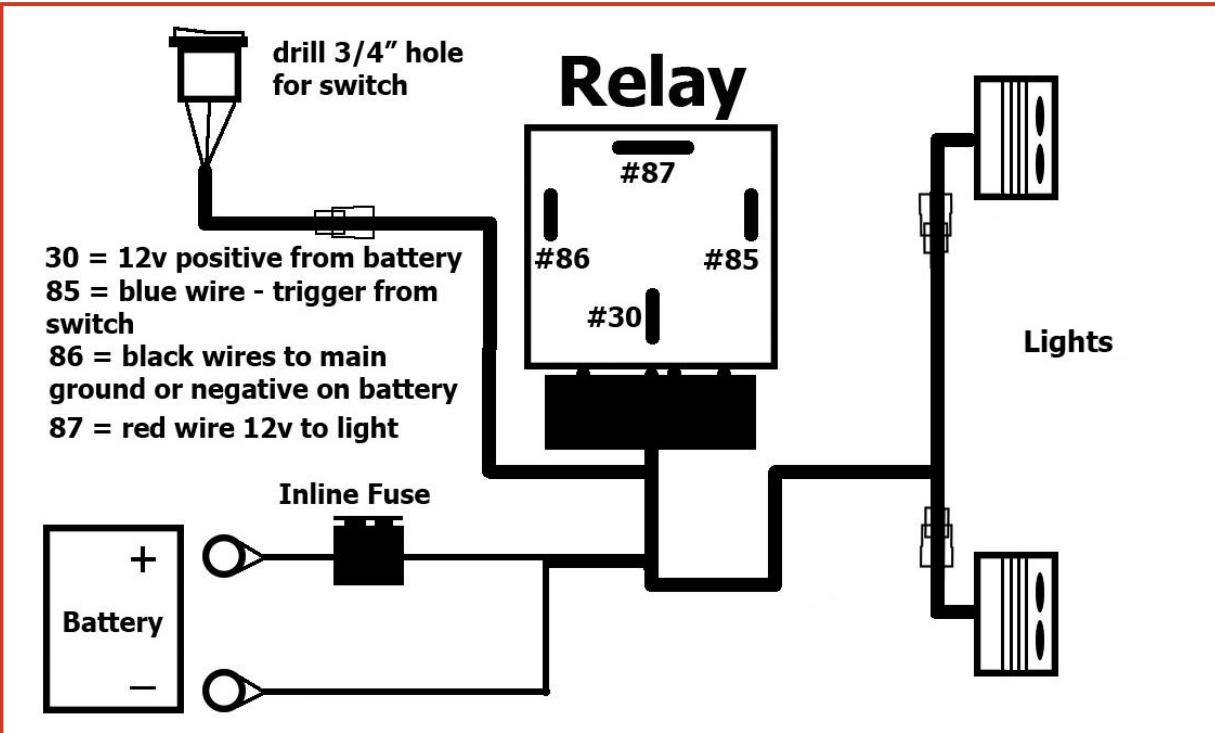
STEP 17

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

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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.