



LIT S550 BIG MOUTH Ram Air Intake Installation Guide

Kit Contents

Please review this document before attempting installation.
 You will need basic hand tools and about 2 hours of installation time.

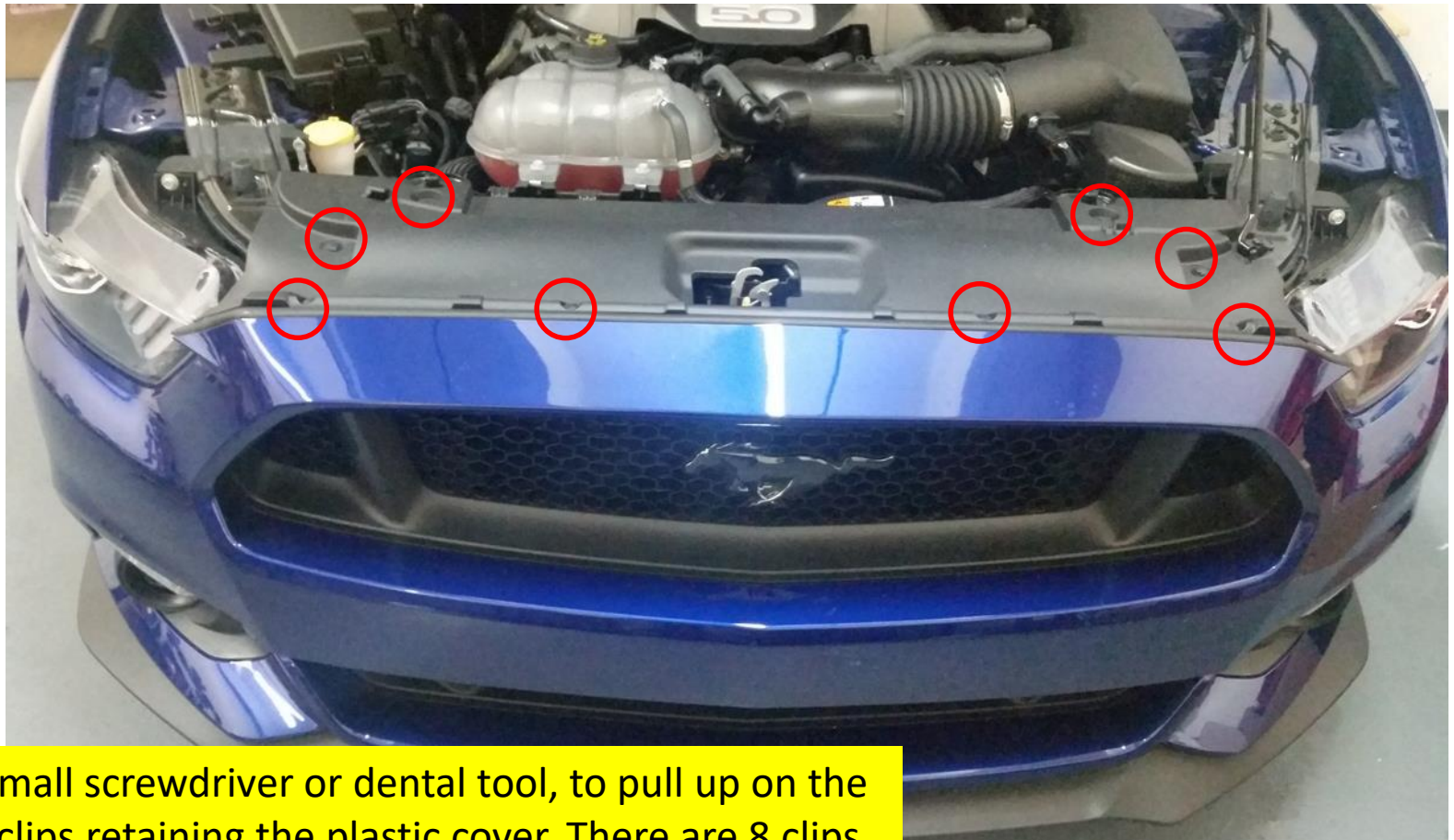
Please review the table below and make sure you have received the kit contents.

Kit Contents			
Description	Size	Length	Qty
S550 BIG MOUTH Ram Air Intake Driver Side	NA	NA	1
S550 BIG MOUTH Ram Air Intake Passenger Side	NA	NA	1
Wireless Remote	NA	NA	1
Wireless Receiver with Attached Wiring Harness	NA	NA	1
Driver Side LED1 Strip and Harness	NA	76in	1
Passenger Side LED Strip and Harness	NA	52in	1
Mini Fuse	0.5A	NA	1
Zip Ties	NA	NA	5
Alcohol Pad	NA	NA	1
Alignment Wedge Driver	NA	NA	1
Alignment Wedge Passenger	NA	NA	1



Bumper Removal

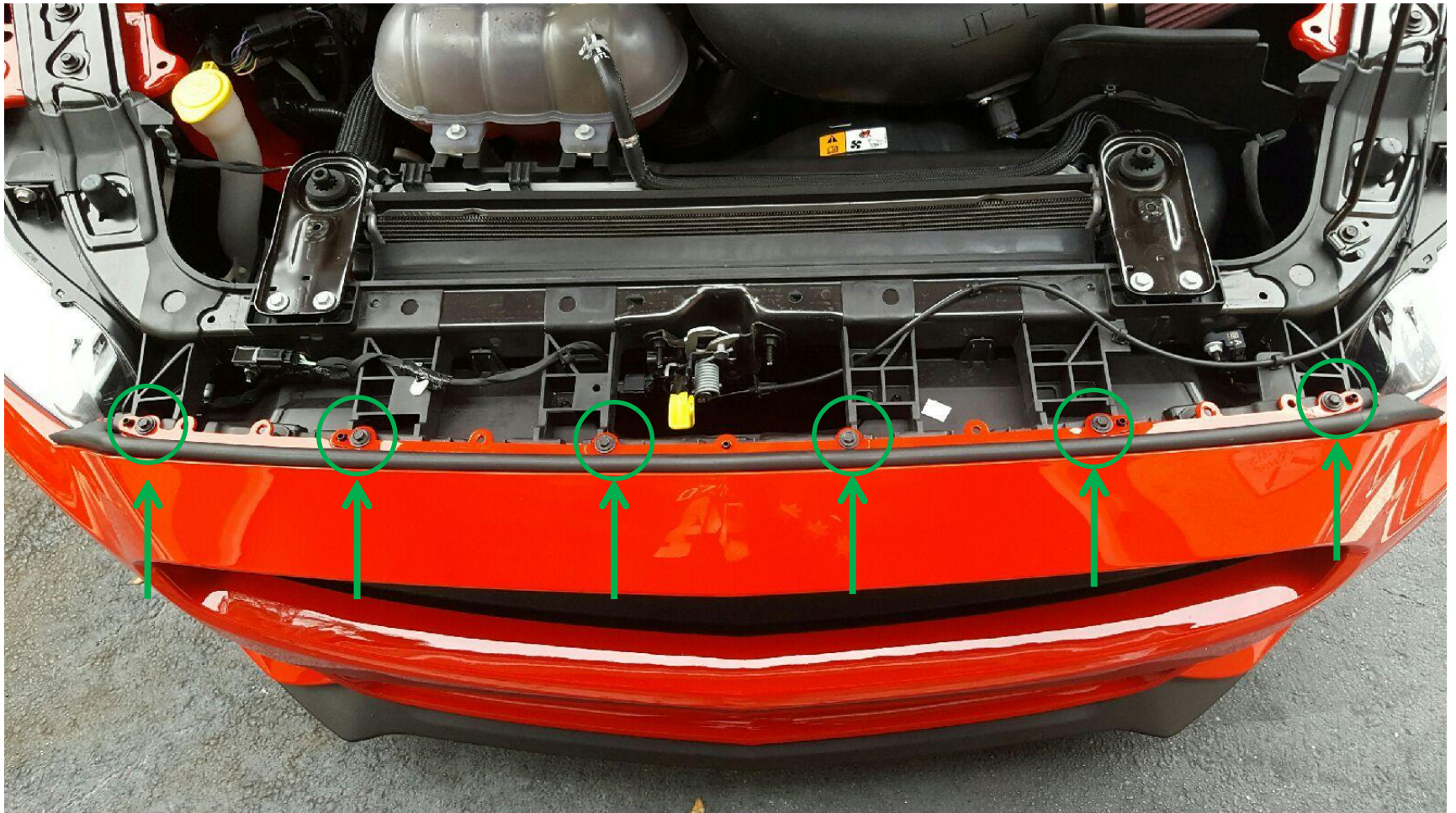
Pop the hood and locate the front plastic cover that sits above the radiator.



Use a small screwdriver or dental tool, to pull up on the plastic clips retaining the plastic cover. There are 8 clips.

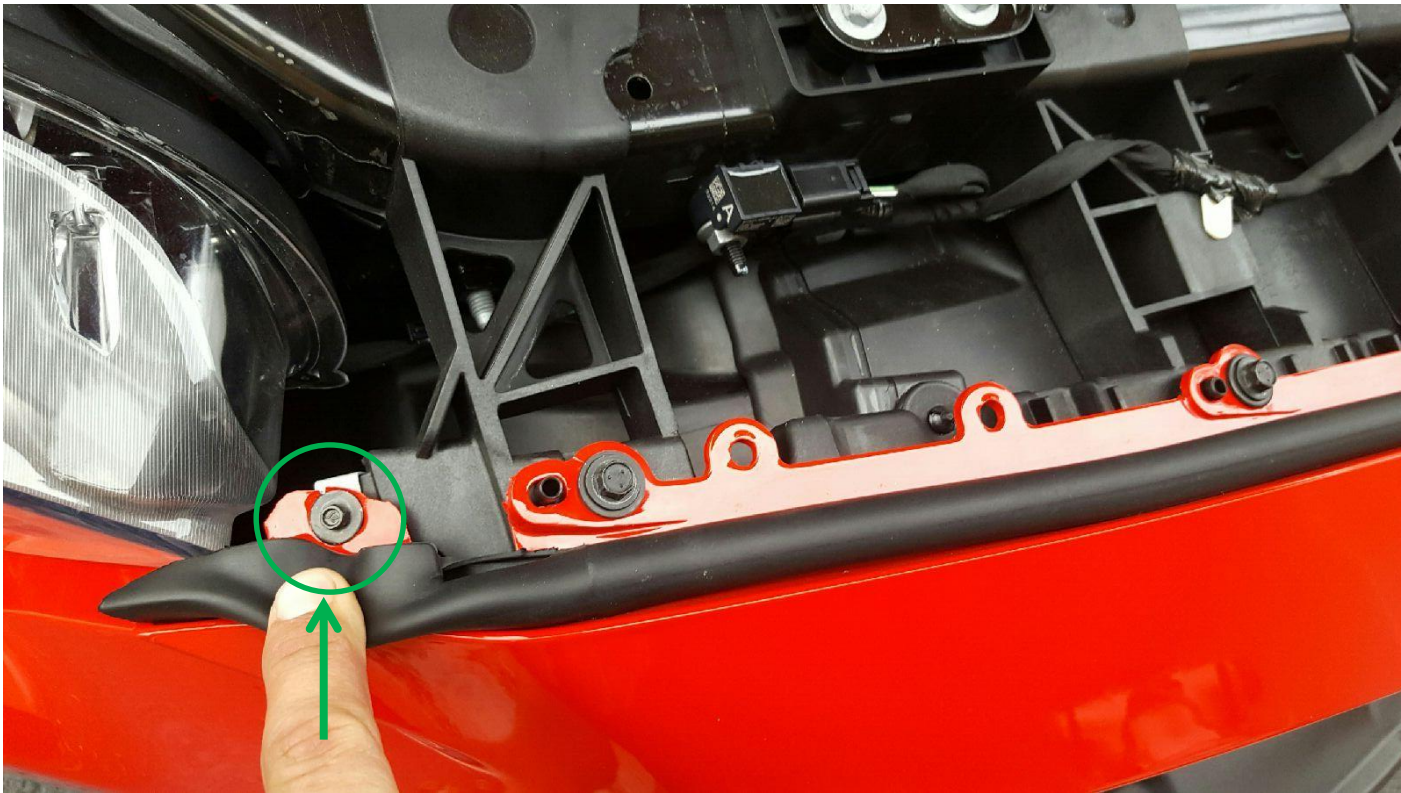
Bumper Removal

Once the cover is removed, there are six 5/16" screws that will need to be removed.



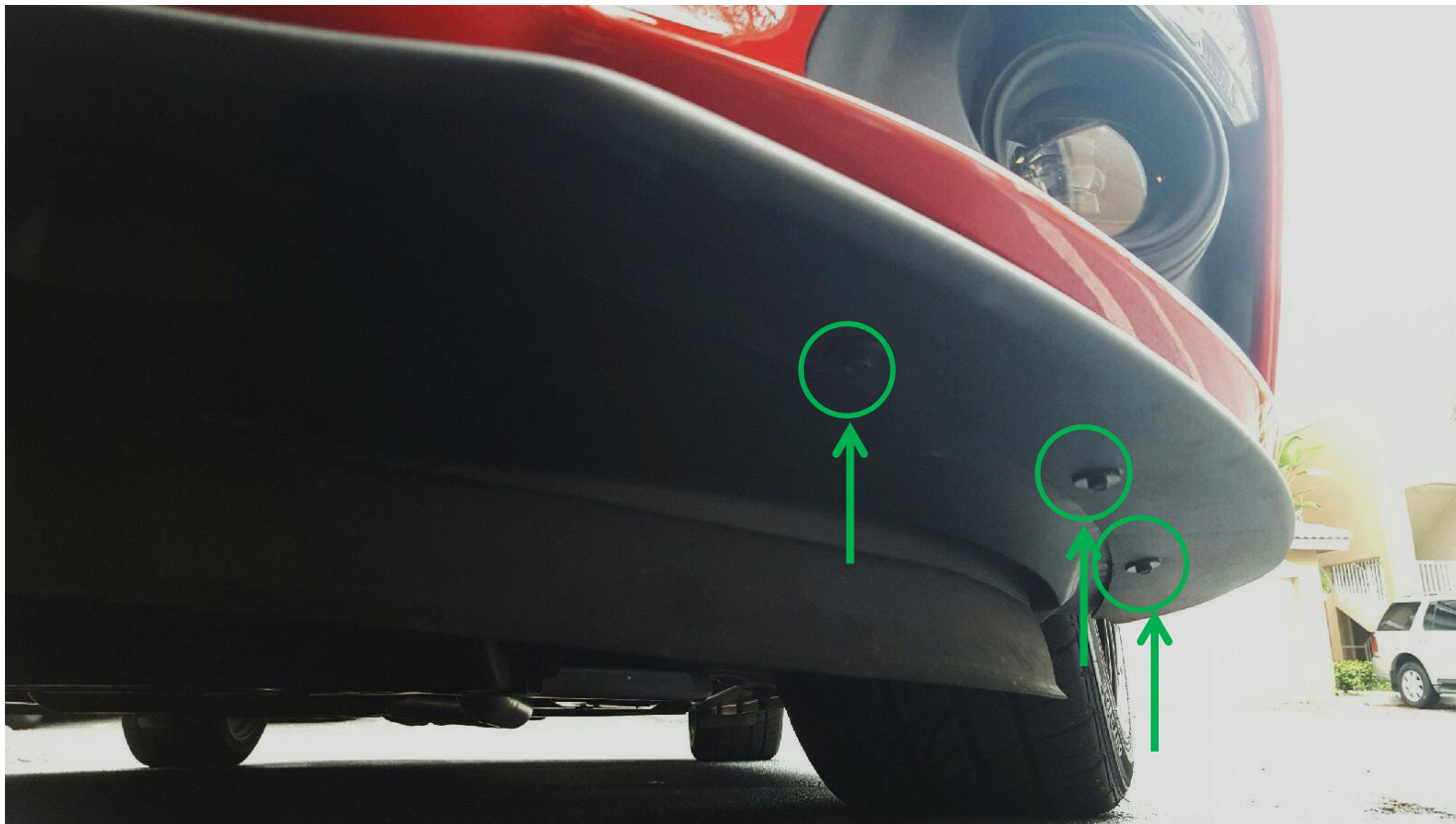
Bumper Removal

Two more screws are located on each side of the bumper near the headlight, they are 7/32”.



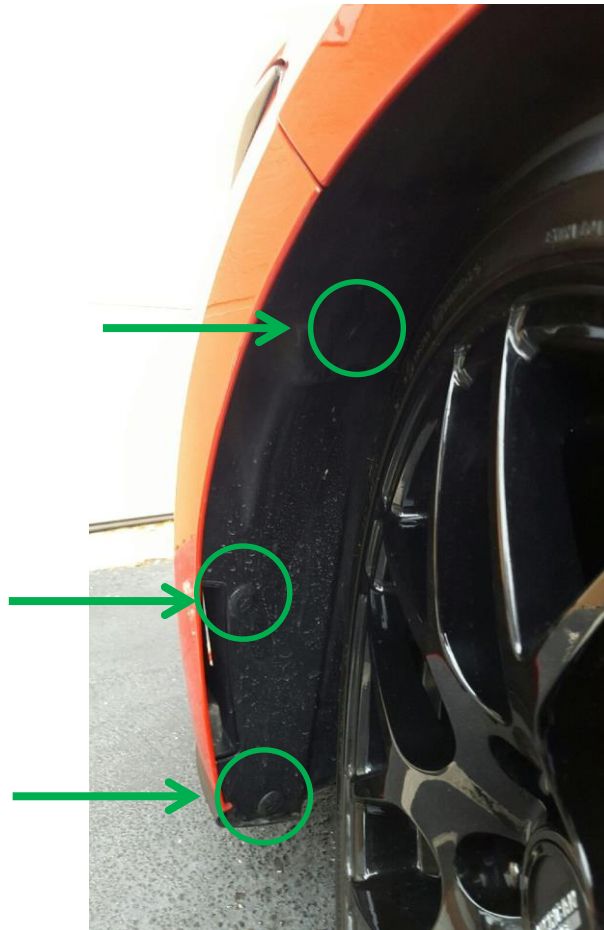
Bumper Removal

Underneath the front bumper, there are twelve 9/32" screws to be removed. Three are shown for example.



Bumper Removal

The wheel well contains 3 small plastic clips per side, pop them out using a flathead screwdriver, it is best to pop off the top cap instead of trying to pry them out by force.



Bumper Removal

You will need to pull back on the fender liner, and reach in with a 7mm socket to remove one screw per side on the inside of the fender.

7mm screw behind this location circled



Pull this region of the liner back slightly, it is best to reach in from both the top and bottom to work with the 7mm screw. A swivel and extension helps for this process.



Installing LEDs

Customers who purchased a pre-made Lit BIG MOUTH kit have LEDs pre-installed and can skip this step

Our LEDs and alignment wedges come with pre-applied 3M double sided tape. Install the wedges where indicated. The passenger side wedge has a notch, while the driver's side is smooth. It is highly recommended to clean the surface of the BIG MOUTH before installation of wedges and LED Strips.

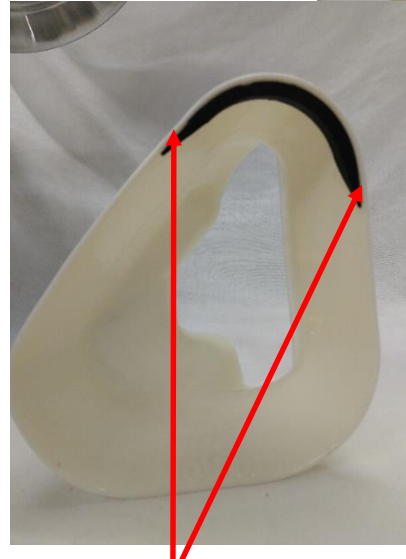
Simply remove the backing and carefully press the wedge into place.



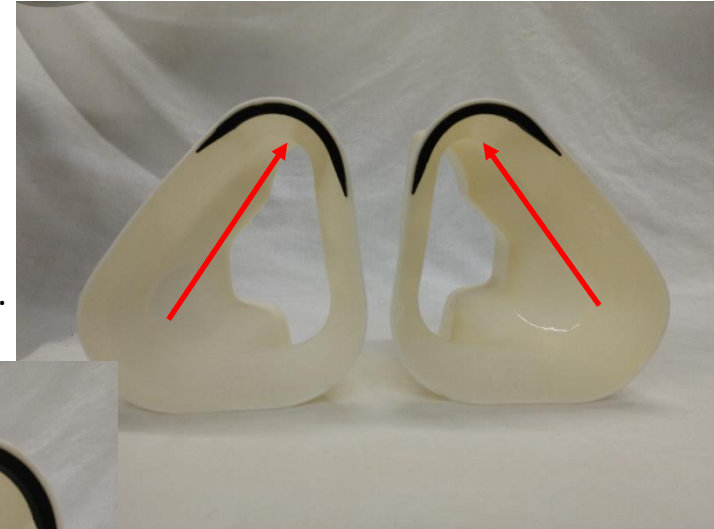
Passenger side has notch



Top of wedge is flush with top of big mouth



No gaps at edges of wedge



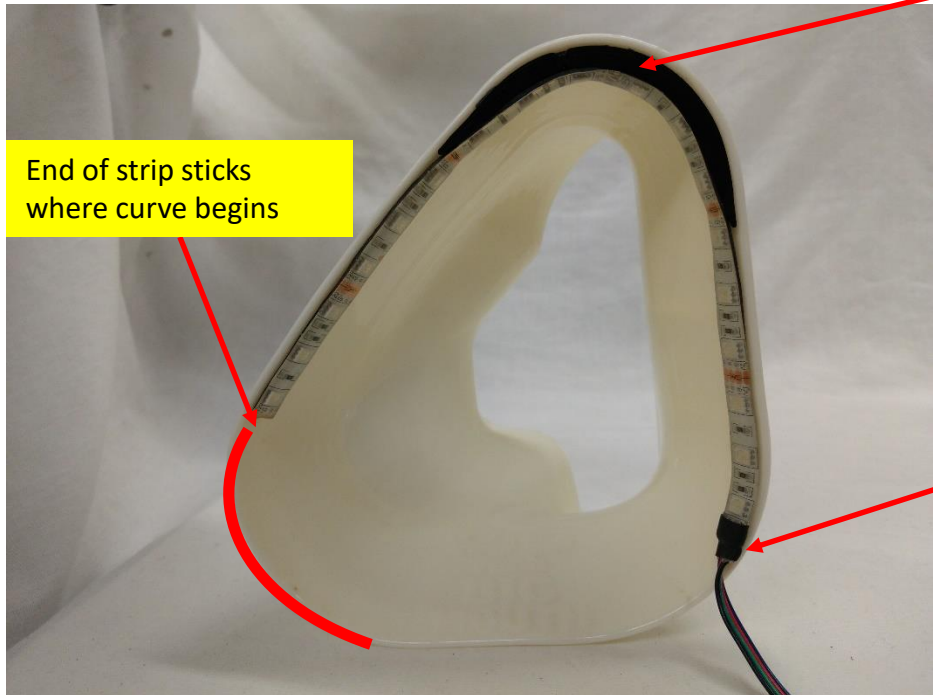
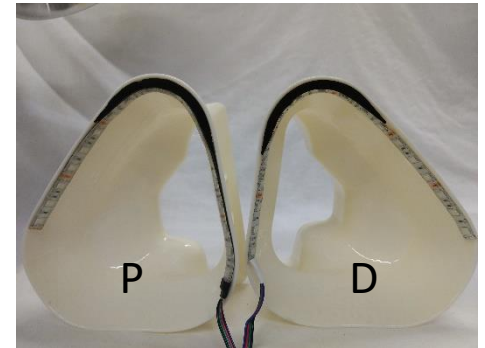


Installing LEDs

Customers who purchased a pre-made Lit BIG MOUTH kit have LEDs pre-installed and can skip this step

Next, install the LED strips on the front edge of the BIG MOUTH, going over the alignment wedges as indicated. The LED strip with the longer wires goes on the driver side and the LED strip with the shorter wires goes on the passenger side.

You may drill a half inch hole to allow the wiring harness and connector to pass through.



End of strip sticks where curve begins

Strip goes on top of the alignment wedge

You may drill a small hole here to add a zip tie or pass the wires through

Wires attached to both strips come out towards the center of the car



BIG MOUTH Installation

Once you locate this area of the intake, insert the BIG MOUTH carefully. The BIG MOUTH is full floating, it compensates for alignment.



You may want to apply a film of dish soap in this inner tunnel area, to allow for easy install of the BIG MOUTH



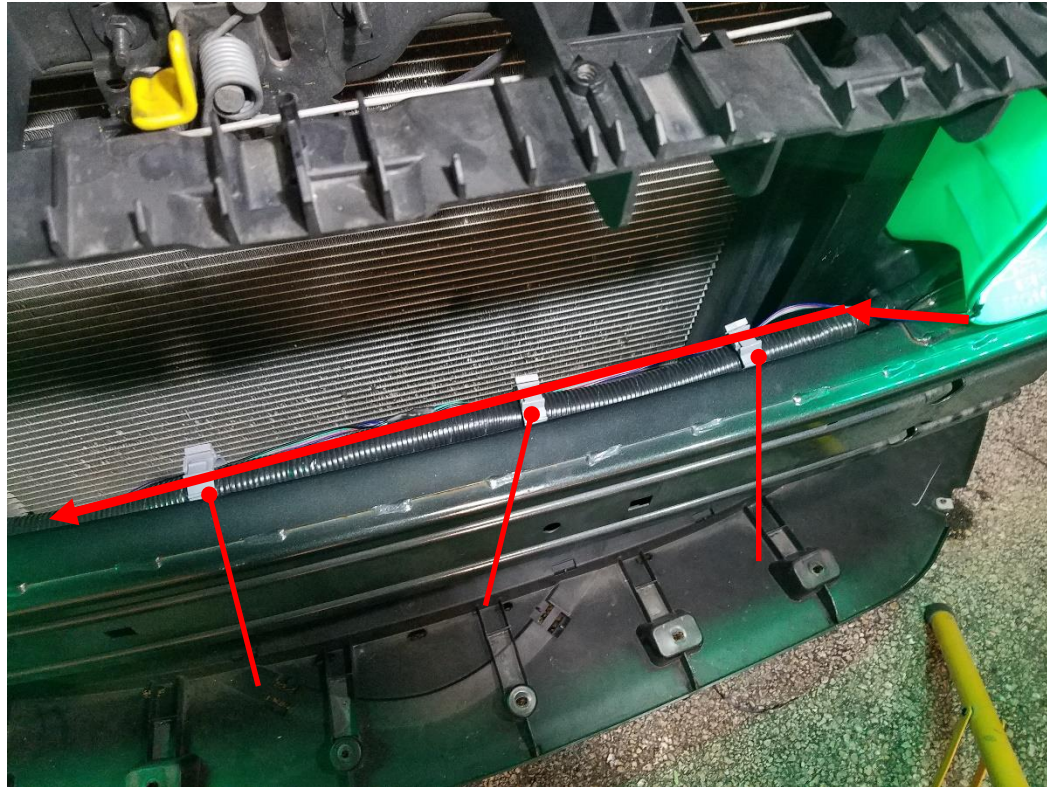
Installation of Ram Intake

Once installed, the axial (forward/backward) position may shift slightly when you install the bumper. This is normal and is part of the alignment process.



Installing Wiring Harness

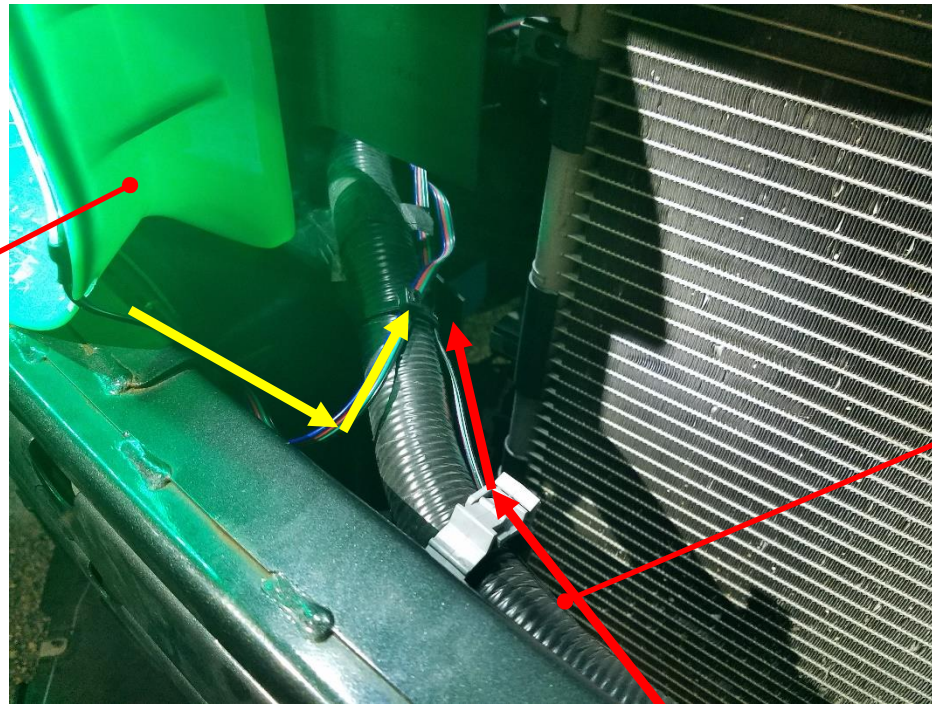
After installing the driver side BIG MOUTH, route the harness through the factory retention clips as shown.



Installing Wiring Harness

After installing the passenger side BIG MOUTH, route both the driver and passenger harness along the factory wire loom and as shown.

Passenger side
BIG MOUTH



Wiring harness
from driver side

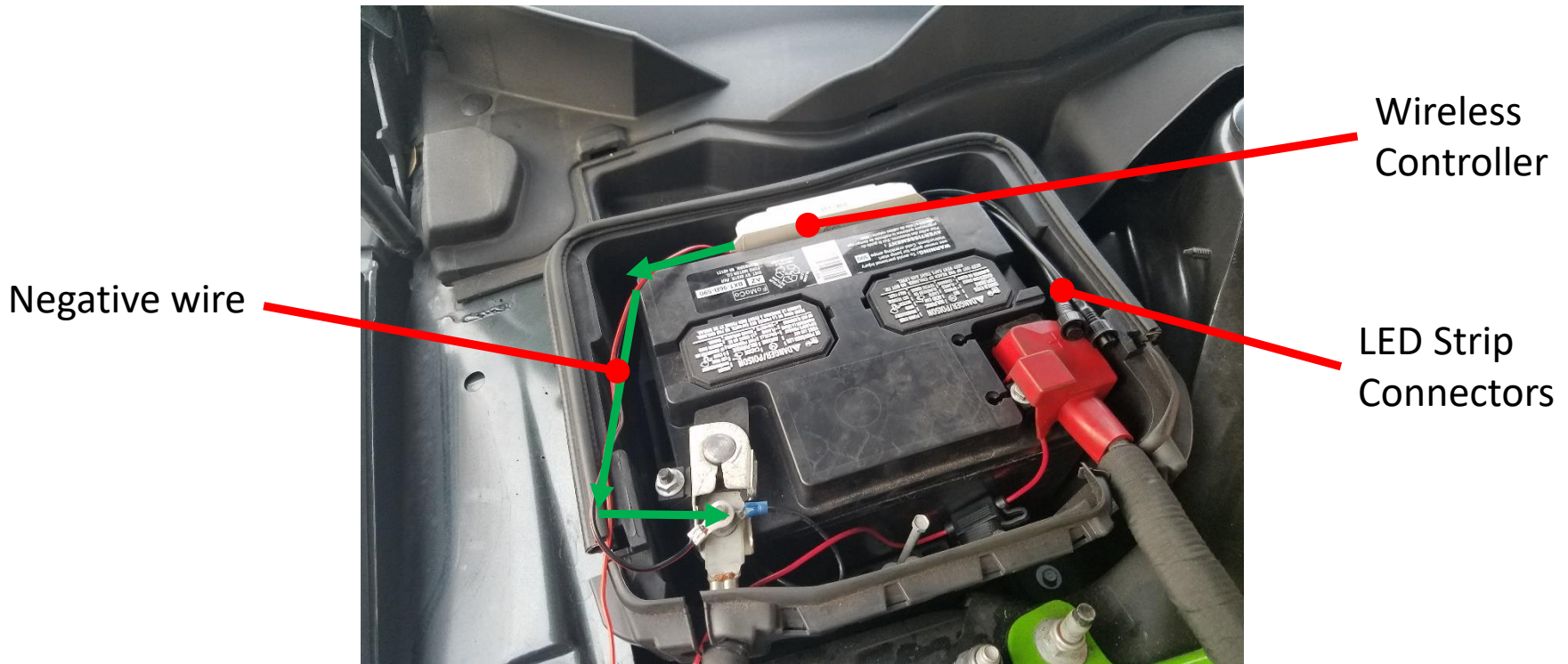
Installing Wiring Harness

Continue routing both the driver and passenger side harness' up along the factory wire loom, using the supplied zip ties. Both connectors should reach to the battery box.



Installing Wireless Controller

The wireless controller is installed in the battery box and secured behind the battery with double sided tape. The ring terminal is attached to the negative terminal of the battery. Now is also a good time to attach both LED strips to the female connectors on the LED controller. It doesn't matter which connector you use for each side.



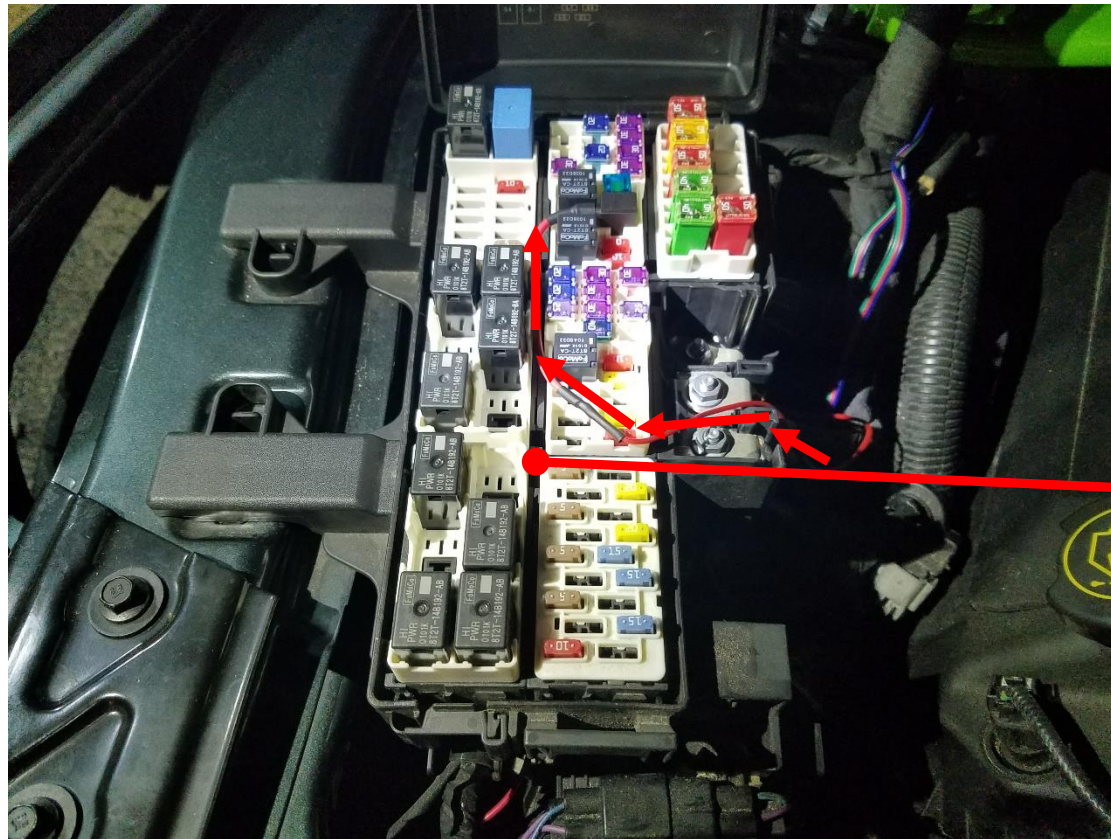
Installing Wireless Controller

The positive wire on the wireless controller is routed down the wire loom on the passenger side of the battery box to the fuse box.



Installing Wireless Controller

The positive wire continues into the fuse box.



Fuse Box



Installing Wireless Controller

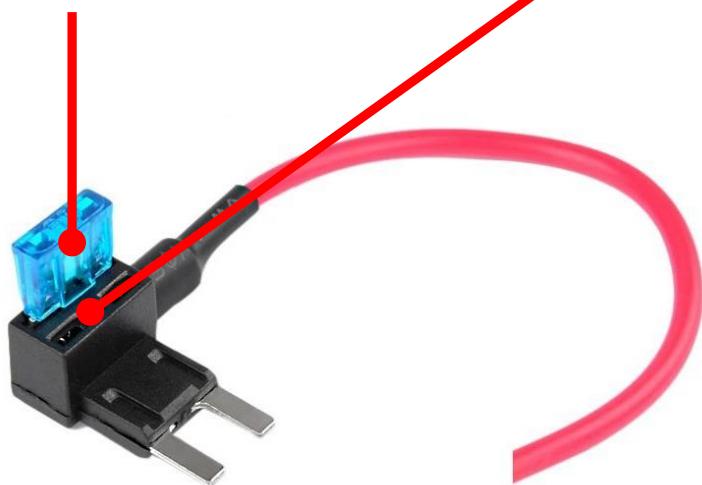
Depending on how you want your LED system to operate, you can choose to plug your fuse tap into different fuse numbers.

Fuse Number	Behavior	Factory Usage
#21	Constant Power*	Horn
#68	Key on Power	Headlamp Leveling Motors



Place supplied fuse into top position

Place Factory fuse into bottom position



*If you use this fuse position, you MUST turn off the lights on the BIG MOUTH manually or battery drain could occur.

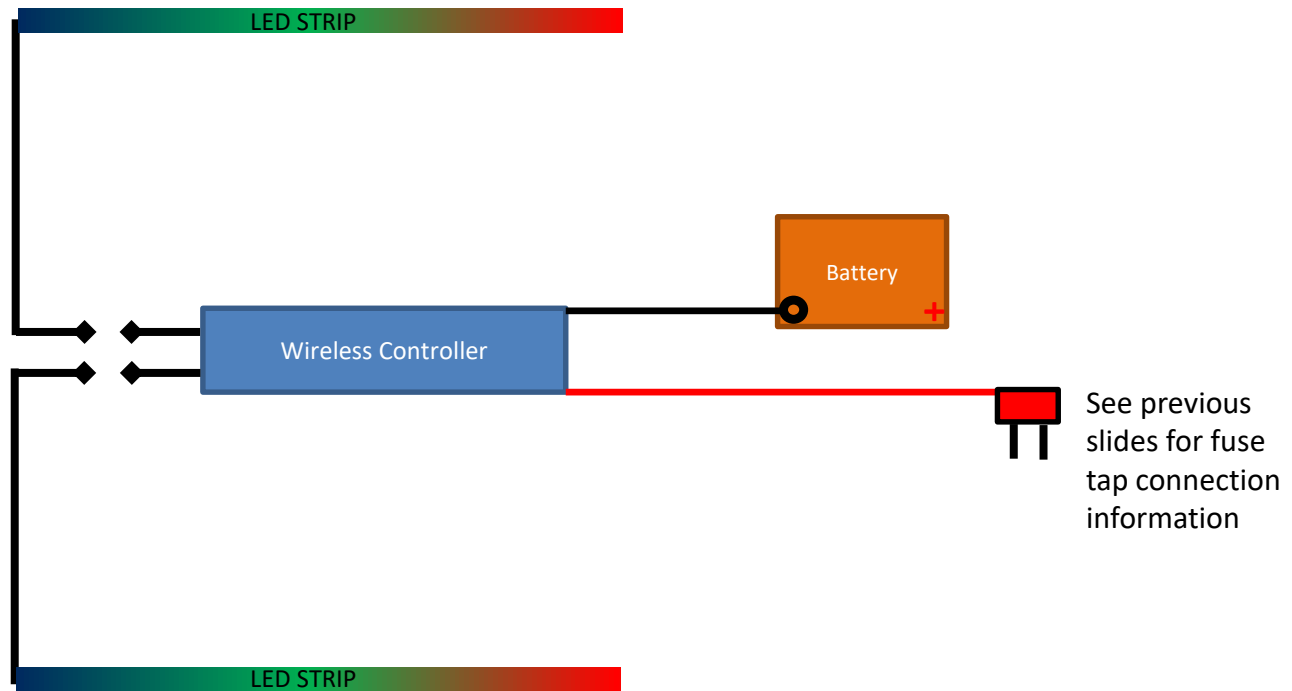


Other Notes

- Your LED system will remember the color/pattern it was set to when power was removed. This means you can set your LED system to your favorite color/pattern and it will always return to that color/pattern when power is reapplied.
- Some colors or patterns may be dangerous or illegal to use on the street. Please adhere to all local laws and regulations when using the lighting system.
- While our LED strips are extremely tough and weatherproof, please avoid directly spraying them with high pressure water.



Wiring Diagram





Hex Flat Removal

It is highly suggested to remove the hex flats shown. The hex flats impedes the ram inlet from performing to maximum flow potential and allow more light to shine through.



The flats can be removed with a Dremel tool or sanding tool, a sharp blade can also be used if done carefully.