



**2022+ Genesis G70 3.3T/2.0T  
BIG MOUTH Ram Air Intake  
Installation Guide**

# VELOSSA TECH

## Kit Contents (Full Kit)

Please review this document before attempting installation.

You will need basic hand tools and 1-1.5 hours of installation time.

This product reuses the OEM hardware.

KIT CONTENTS	Qty
Metal relocation plate	1
Diode Dynamics RGBW Controller	1
Diode Dynamics 1m LED Extension	1
Positive Cable w/ In-Line Fuse	1
Power Cable w/ Pigtail Connector	1
Switch	1
Switch Ground Cable w/ Crimped Connector	1
8" Zip ties	4
16" Zip ties	2
3/8" Conduit - 20"	1
Cable Clips	2
M6 Bolt	1
M6 Lock Nut	1
Assembled LIT KIT BIG MOUTH's	2



## Kit Contents (LIT Flares Only)

KIT CONTENTS	Qty
Diode Dynamics RGBW Controller	1
Diode Dynamics 1m LED Extension	1
Positive Cable w/ In-Line Fuse	1
Power Cable w/ Pigtail Connector	1
Switch	1
Switch Ground Cable w/ Crimped Connector	1
8" Zip ties	3
16" Zip ties	1
3/8" Conduit - 20"	1
Cable Clips	4
M6 Lock Nut	1
Assembled LIT Flares	2



**If you already own the GEN 4 Genesis G70 BIG MOUTH's, skip ahead to slide XX for wiring instructions**

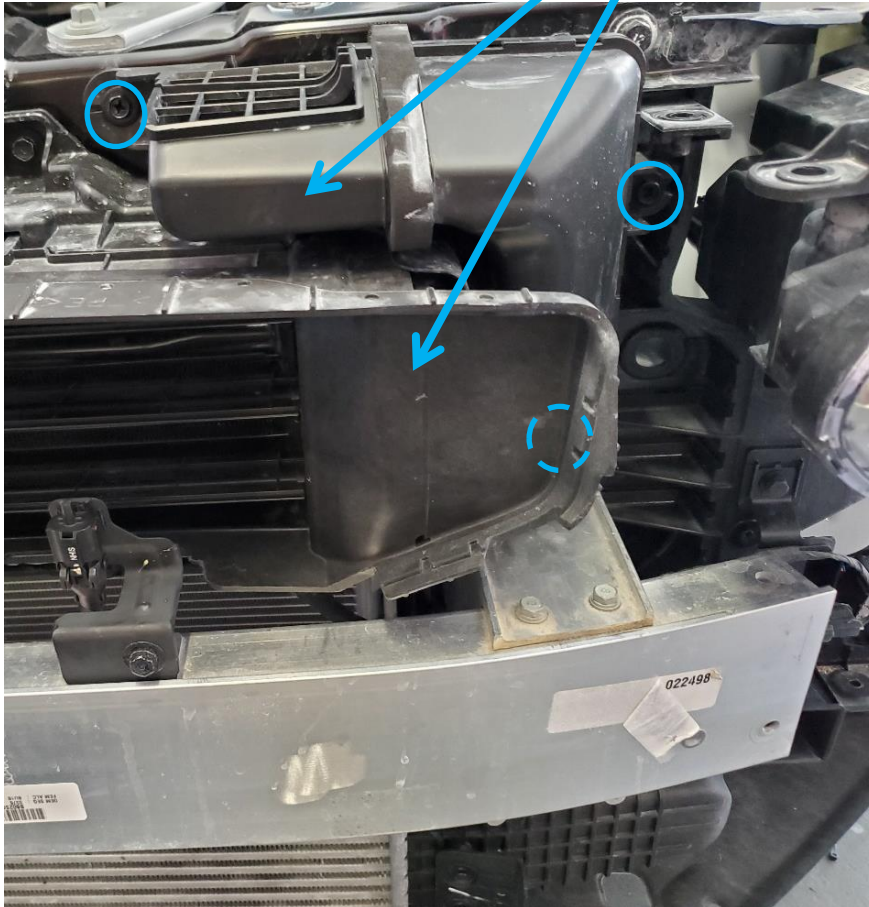


## **Bumper Removal**

It is best to use online resources such as YouTube and Google to look up bumper removal videos and tips for your specific platform.

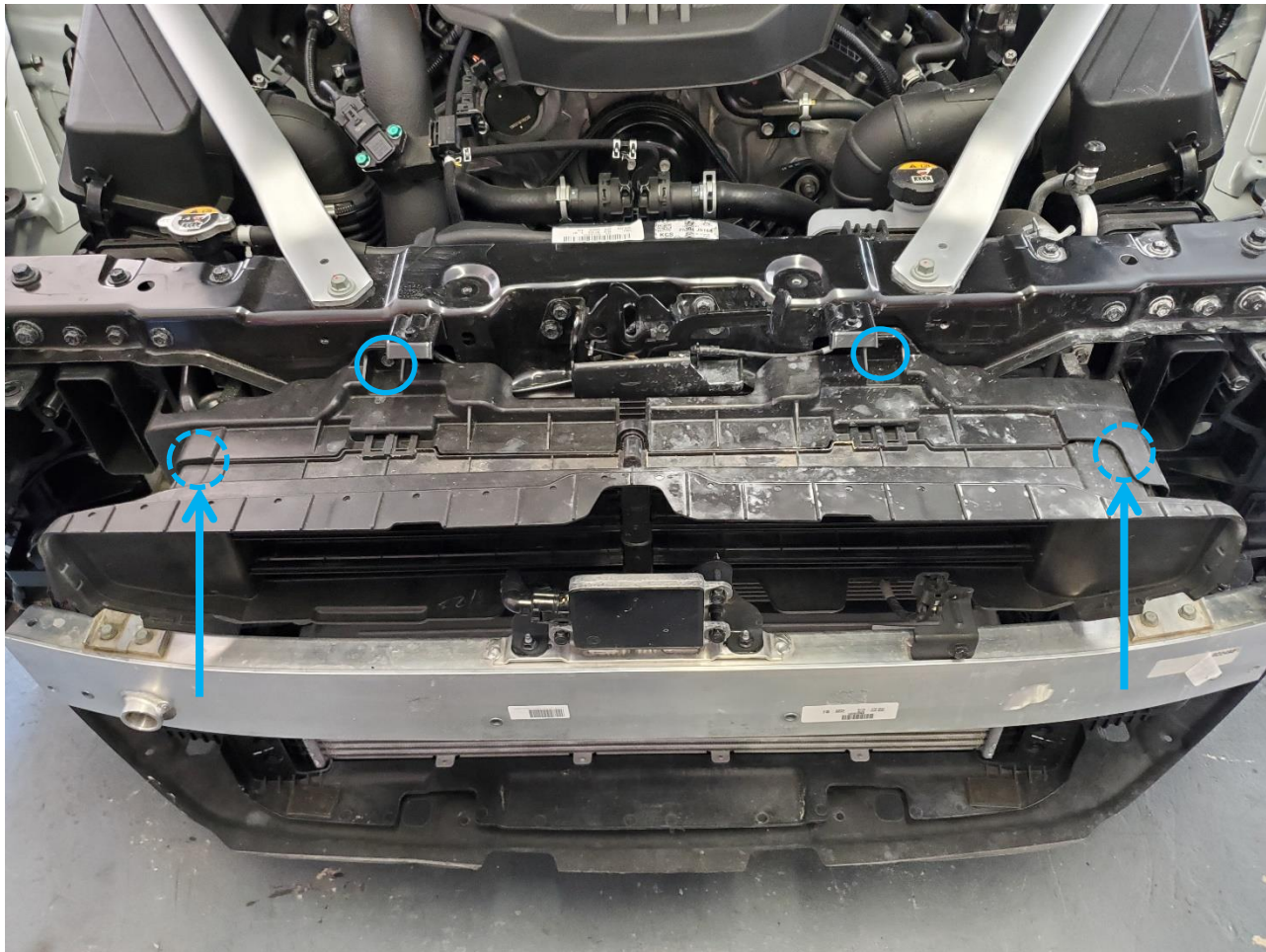
## Stock Snorkel Removal

Remove OEM inlets and shroud.



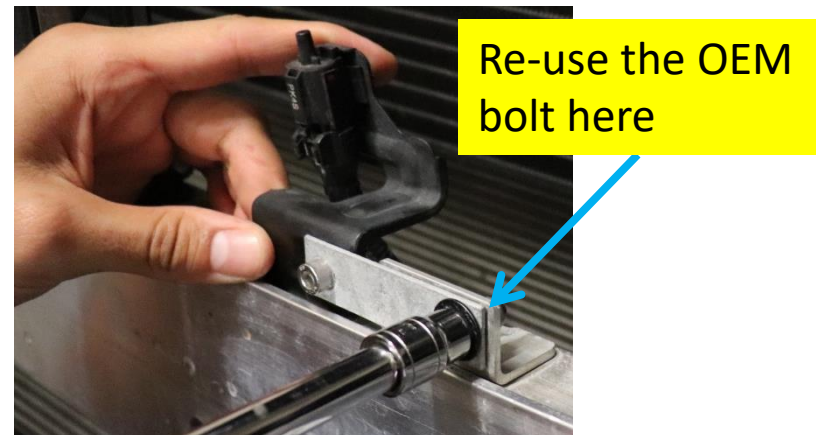
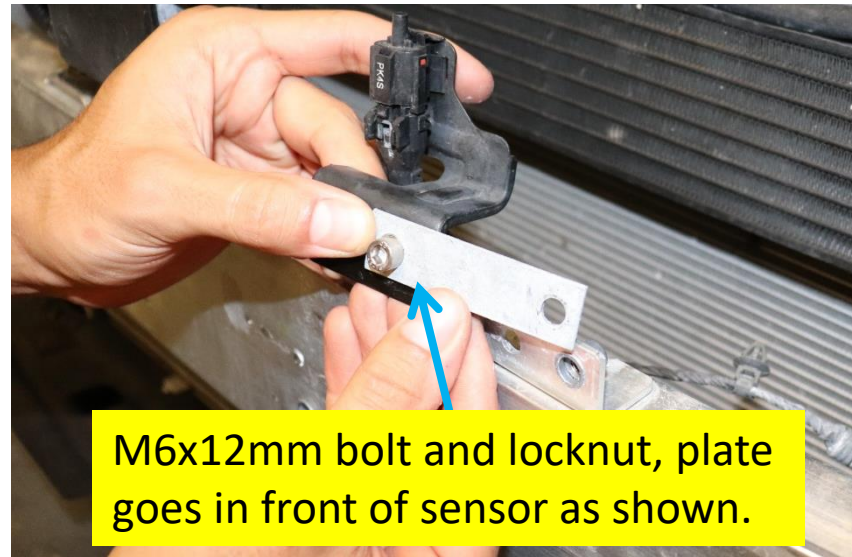
## Shroud Removal

Detach the shroud by unfastening the screws (10mm) marked below. You may need a 6" extension to reach the recessed screws marked by the arrows.



## Sensor Mounting

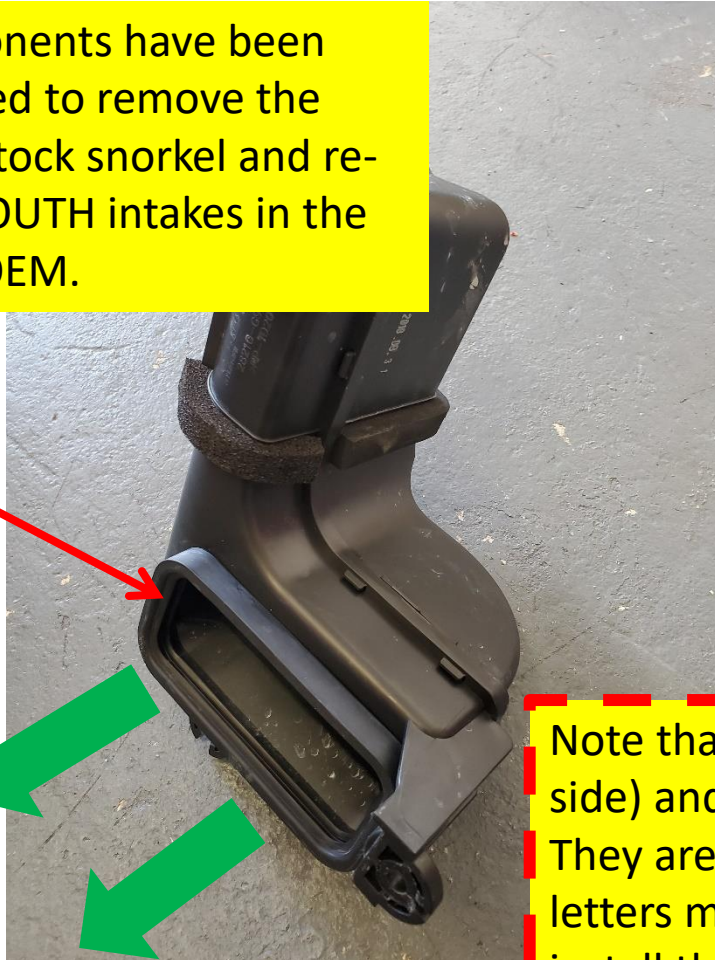
If your car has this OEM sensor, you will need to re-position it as shown. Use the metal plate, M6x12mm bolt and OEM bolt to fasten as shown.



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## BIG MOUTH Install

After the OEM components have been removed, you will need to remove the rubber seal on each stock snorkel and re-apply it to the BIG MOUTH intakes in the same orientation as OEM.

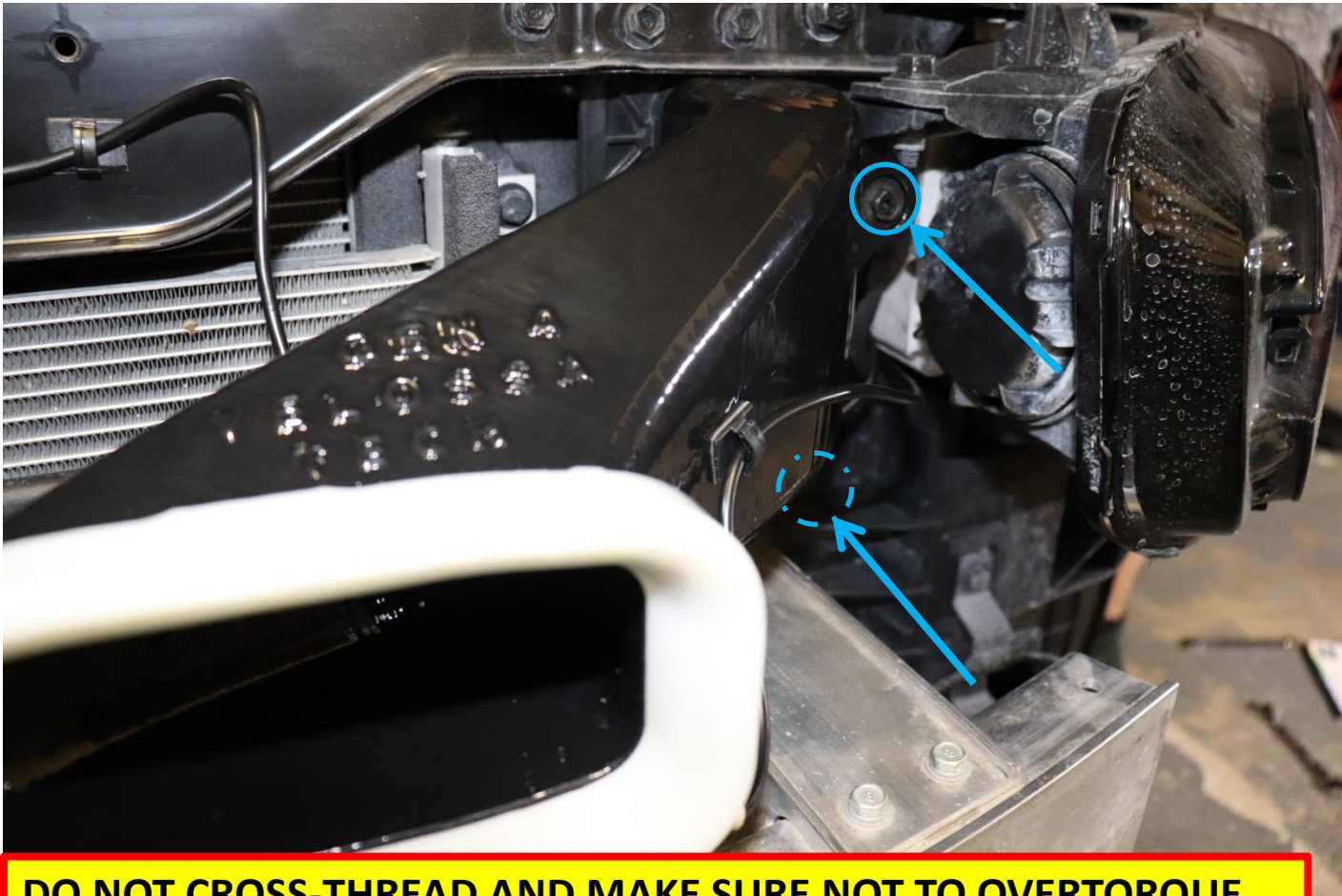


Note that R is RIGHT side (or passenger side) and L is LEFT side (or driver side). They are **NOT** interchangeable and the letters must be pointing up when you re-install them onto the BIG MOUTH intakes!



## BIG MOUTH Install

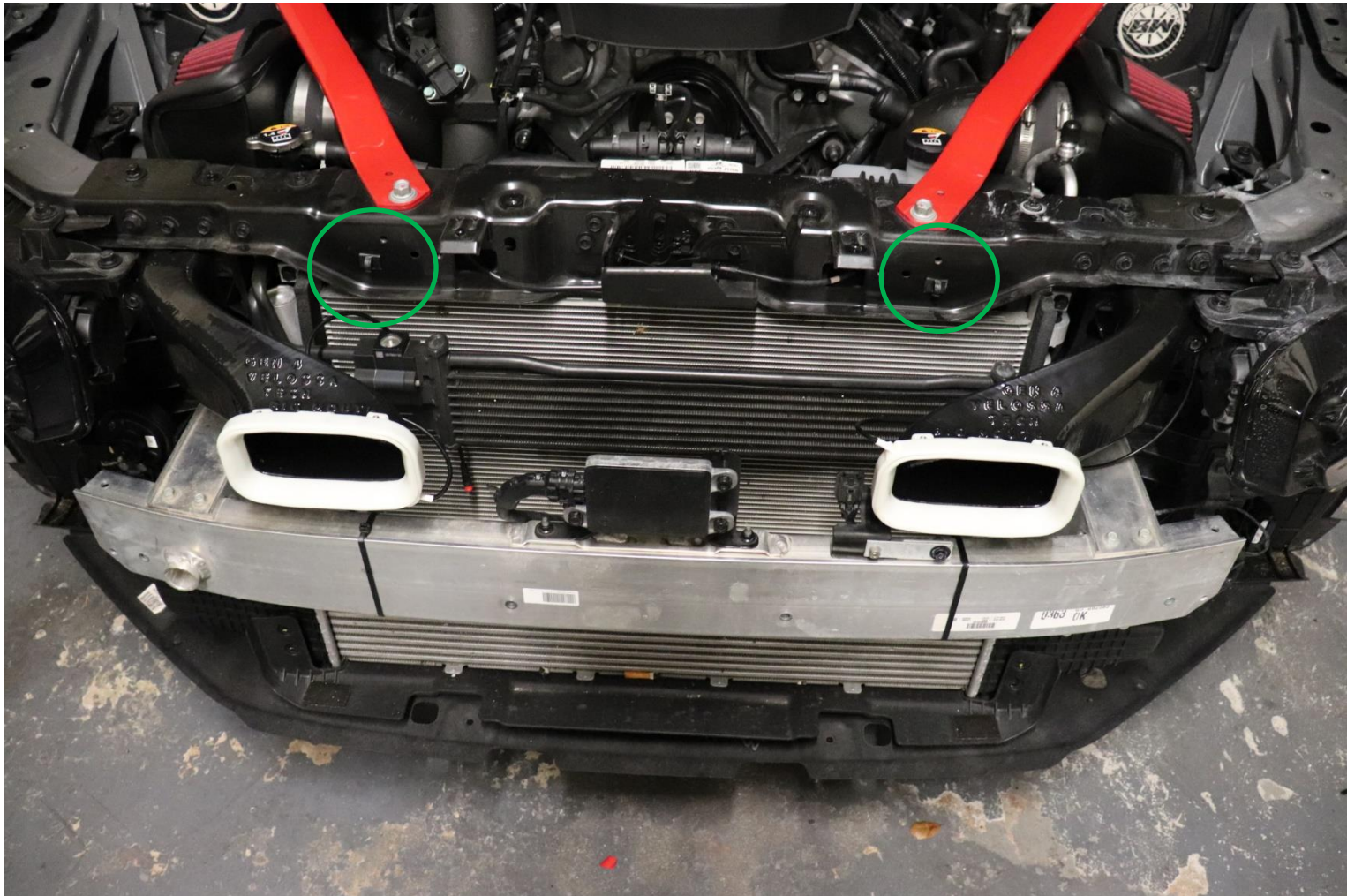
Carefully slide the BIG MOUTH intakes over the stock ports and ensure the bolt holes line up. **Fasten using the OEM coarse-thread hardware.**



**DO NOT CROSS-THREAD AND MAKE SURE NOT TO OVERTORQUE.**

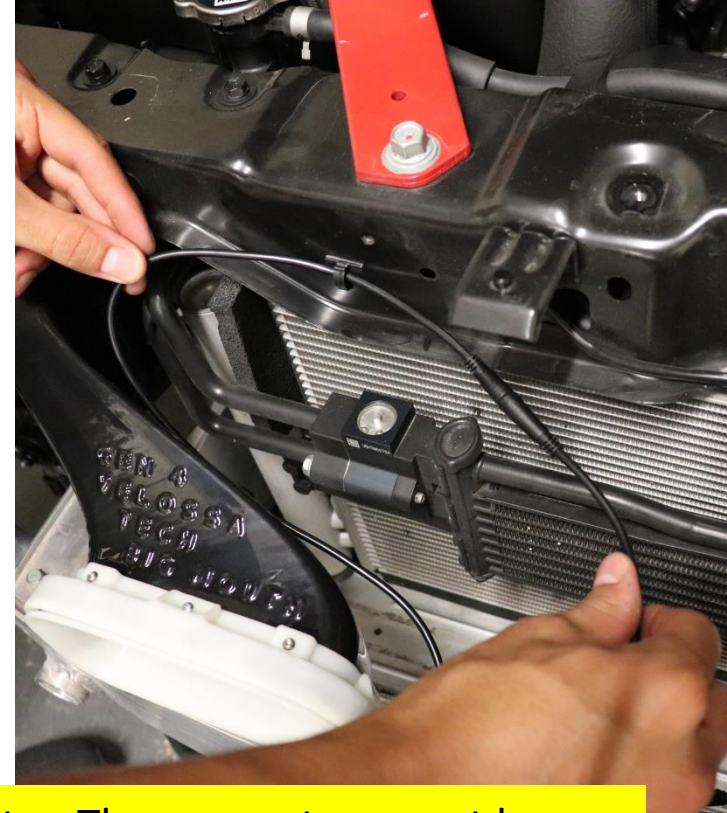
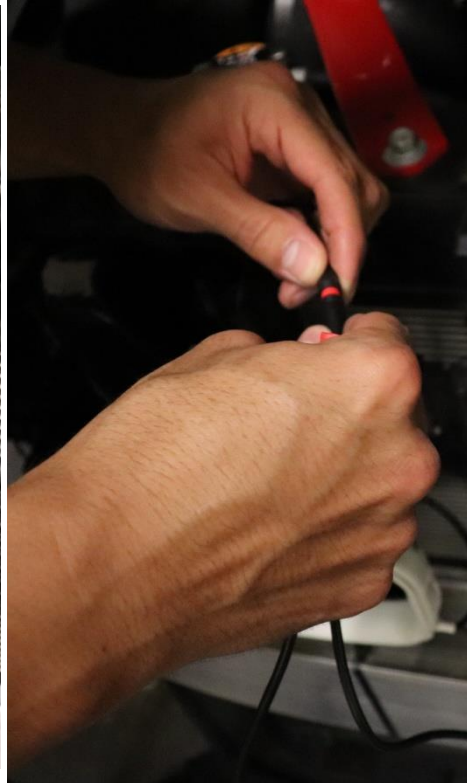
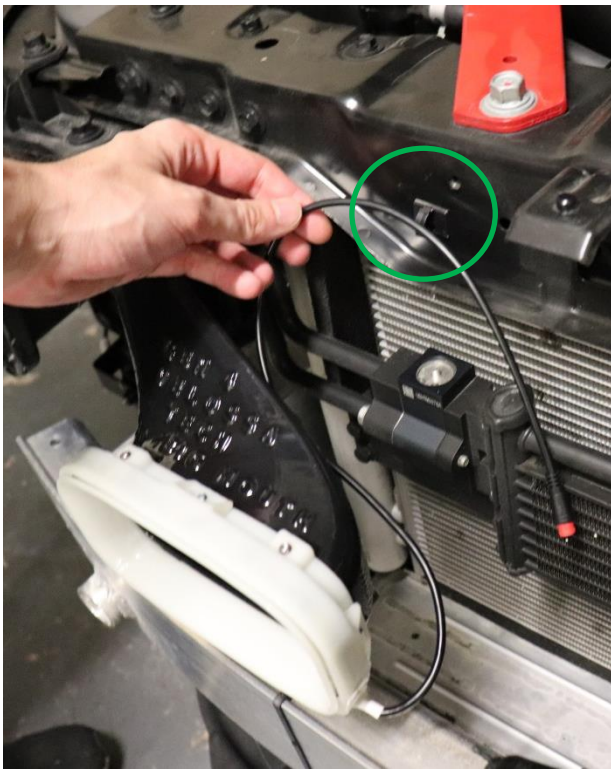
## BIG MOUTH Install

Apply these cable tie downs as shown, clean the surface prior to application.



## BIG MOUTH Lit Kit Prep

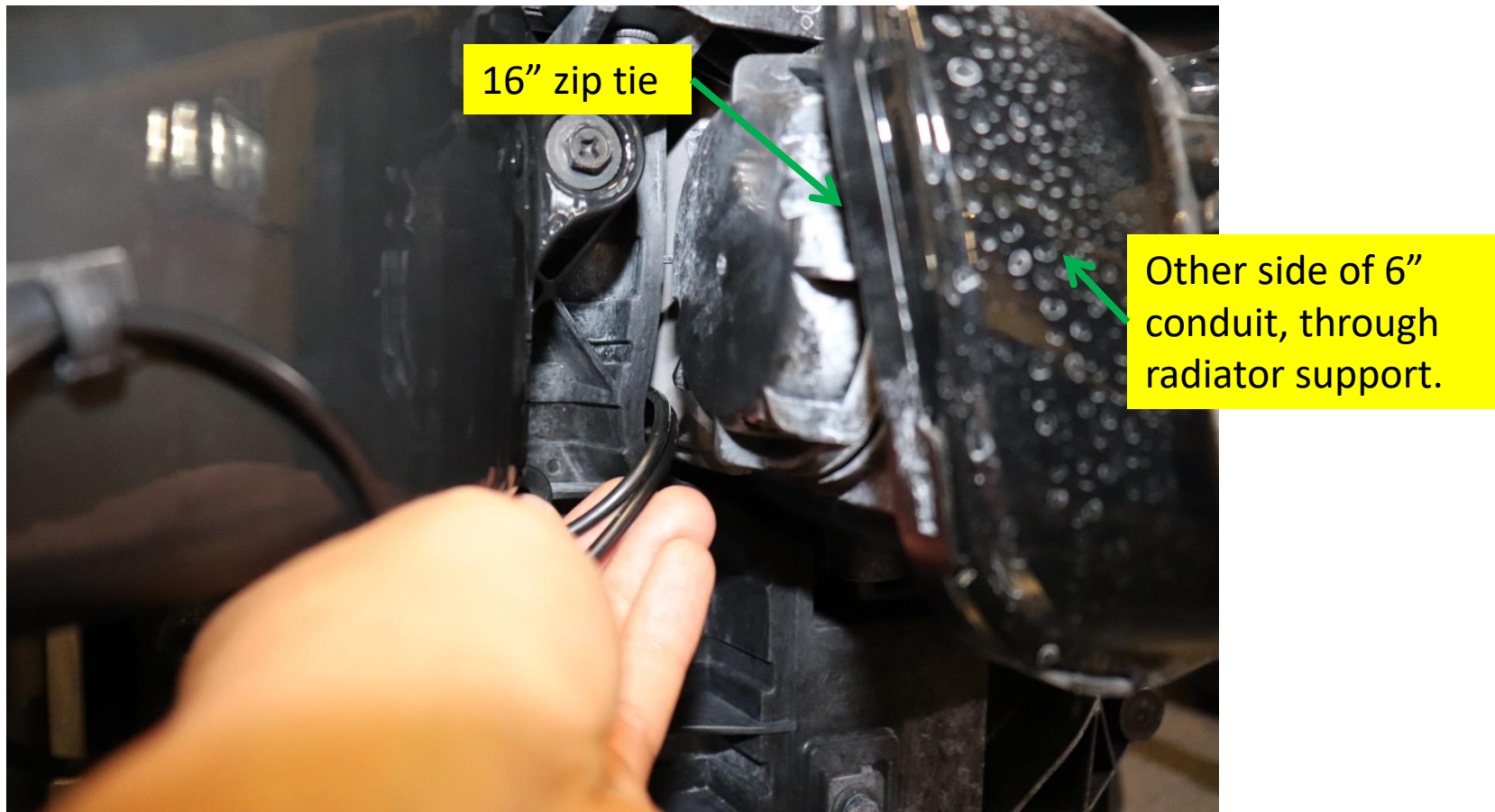
Plug the supplied Diode Dynamics LED extension cable into the passenger side LED as shown and clip into LED cable relief clip.



Take notice of the notch within the M8 female connector. The connectors must be properly oriented and should not require very much force to connect. Improper alignment can damage the pins within the male connector.

## BIG MOUTH Lit Kit Prep

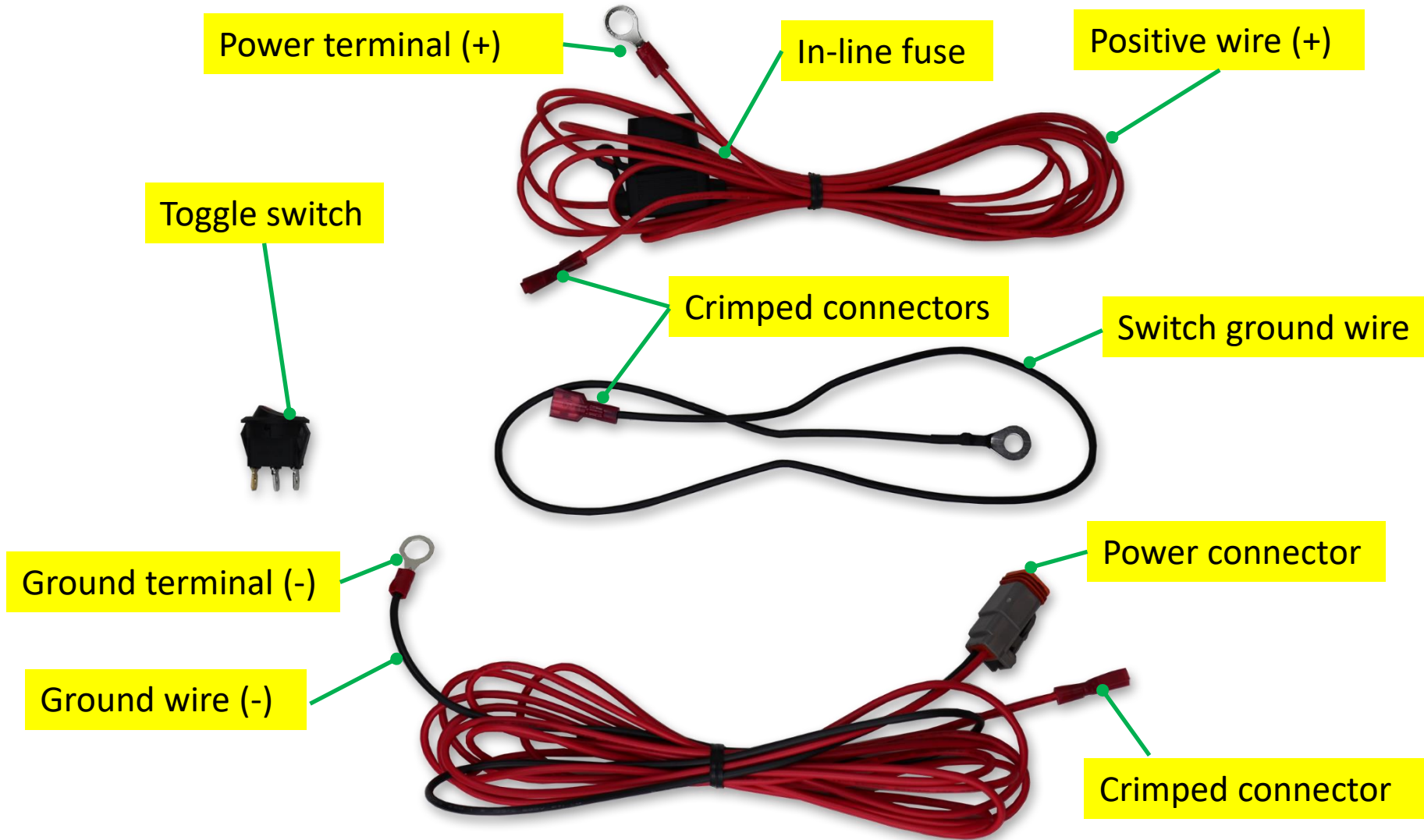
Snake both LED power cables through the **driver side**, behind the headlight as shown.





# VELOSSA TECH

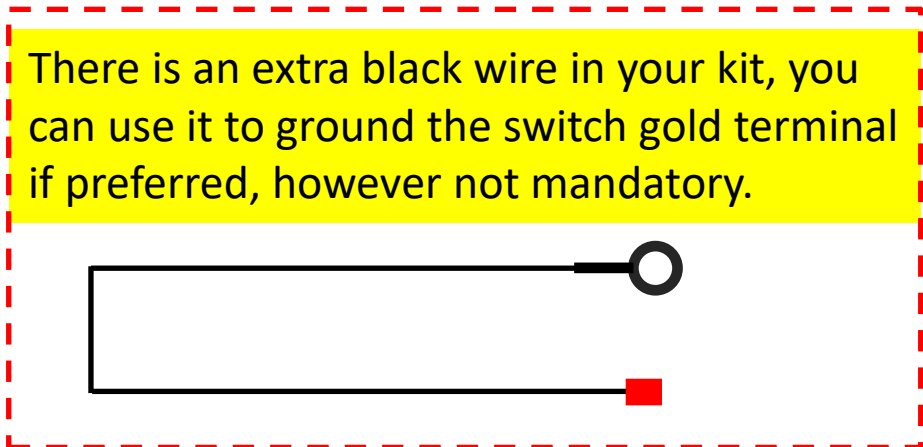
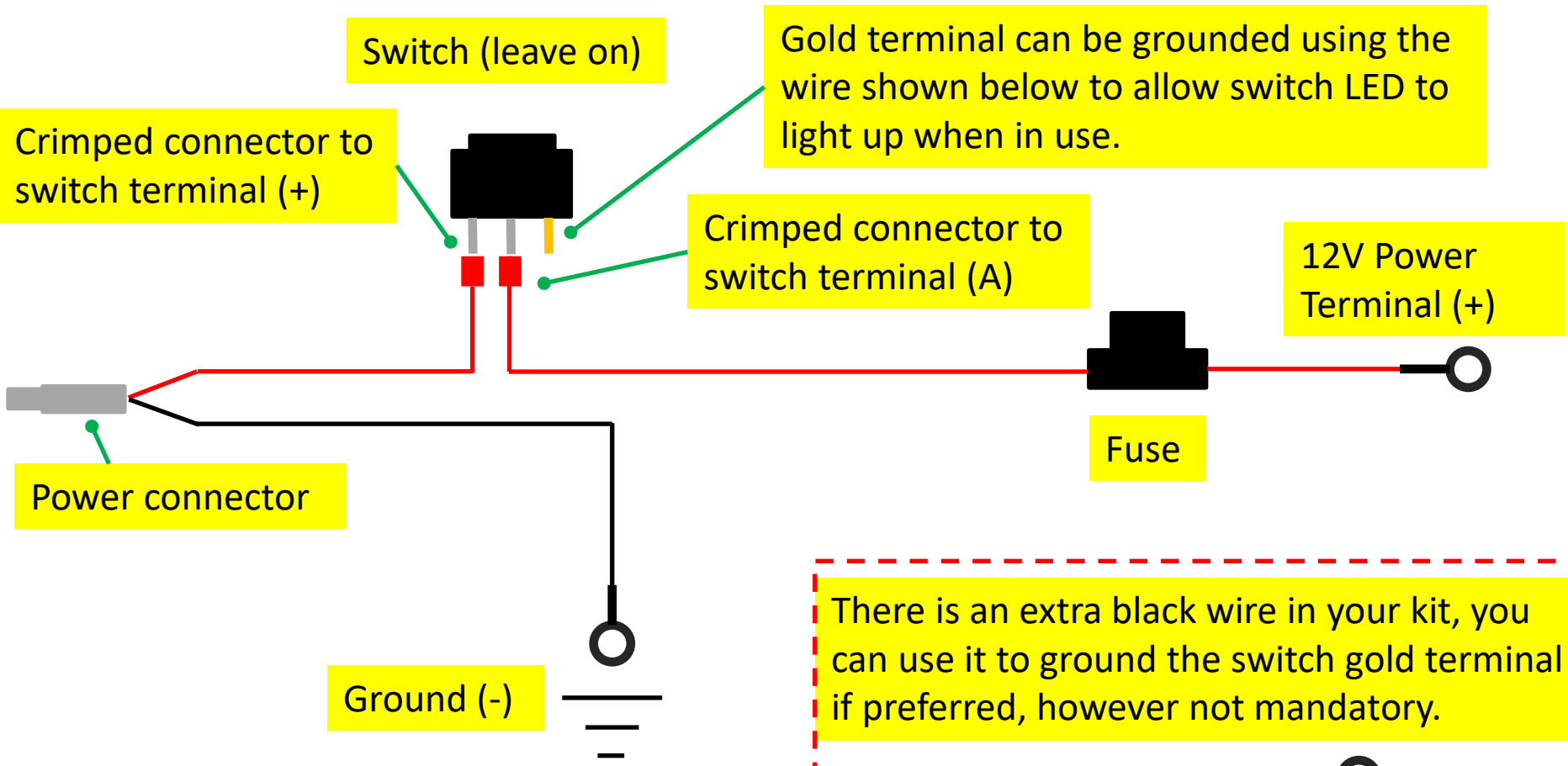
## Wiring Harness





# VELOSSA TECH

## Wiring Harness Schematic



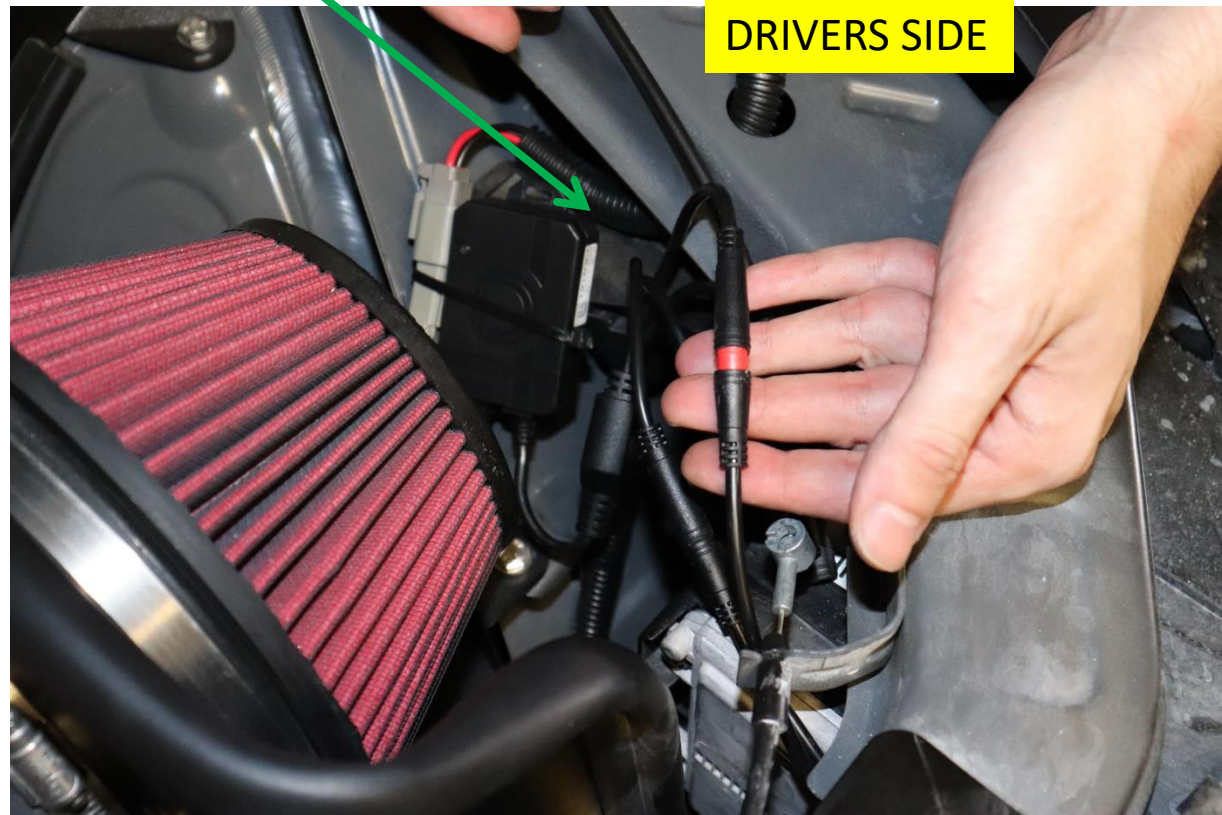
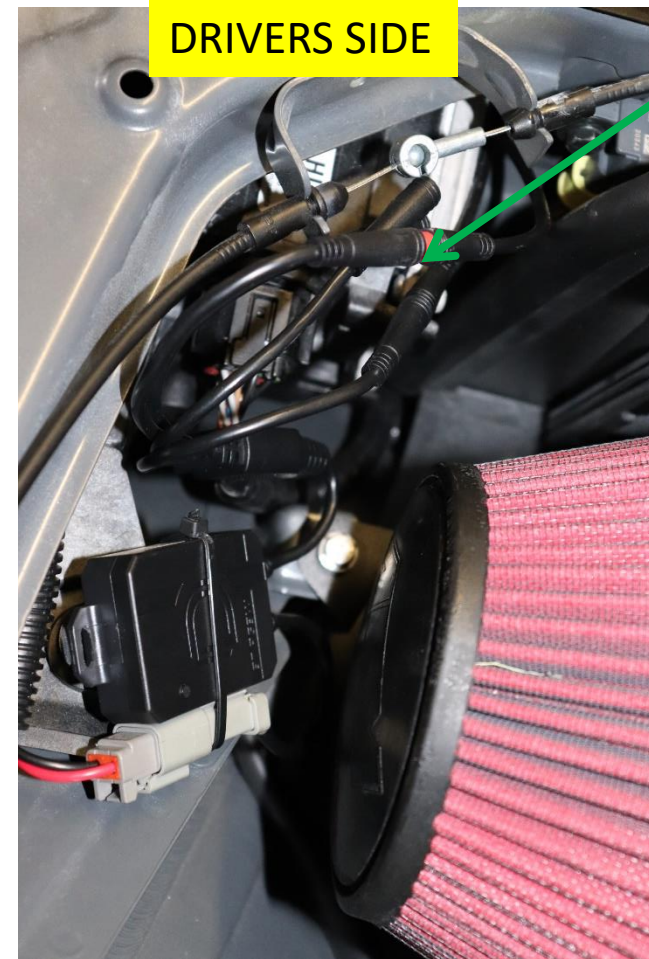
## Controller Mounting

Plug both LED power cables into the Diode Dynamics RGBW Bluetooth controller along with the pigtail connectors (grey). Bunch the cables together neatly. **Do not strain the cables** with tight radius bends or tugging in any place.

DRIVERS SIDE

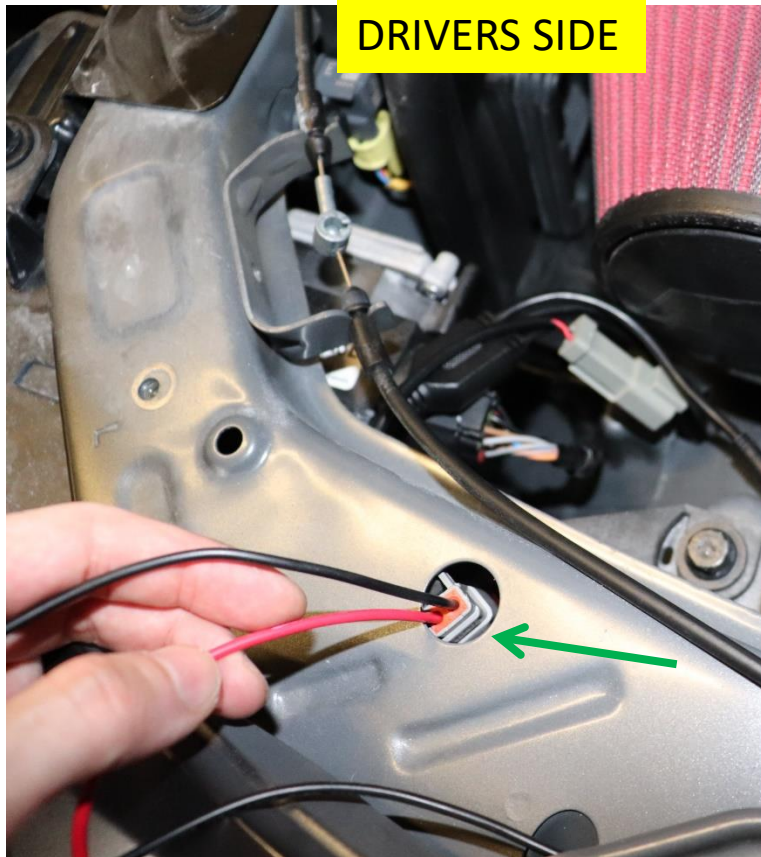
Connect LED cables to controller

DRIVERS SIDE



## Power Routing

Route the grey power connector through this hole on the driver side, then wrap the wires in conduit to prevent wire chafing.





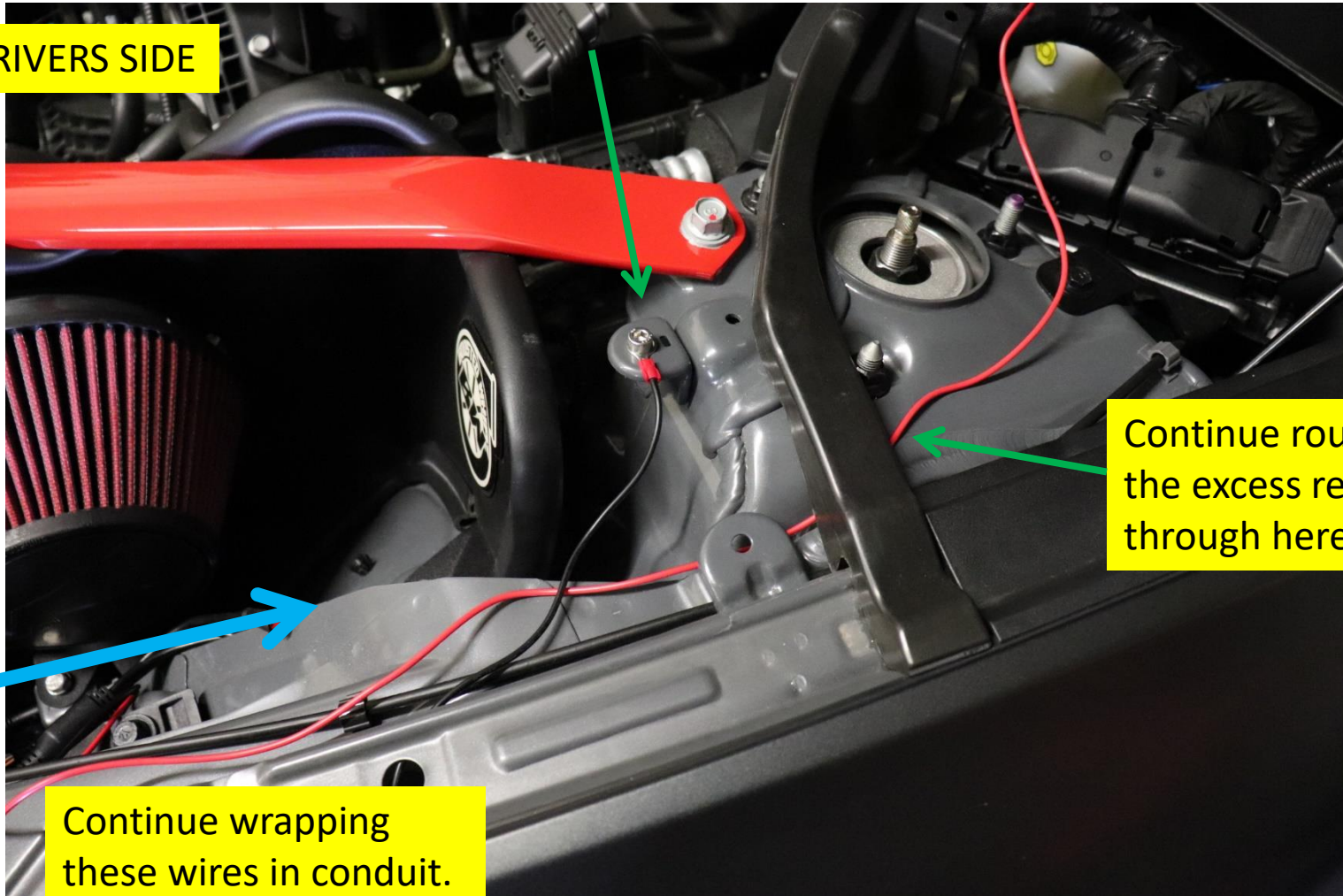
## Power Routing

Begin the routing the power and ground from the controller towards the firewall.  
Ground the grey main power connector here, as shown.

DRIVERS SIDE

Continue routing the excess red wire through here.

Continue wrapping these wires in conduit.



## Power Routing

The wires are extra long, you will need to create bundles of excess wire and tuck them away for cleanliness. This is the first bundle of wire that will need to be folded up, leave a small bit of excess slack to connect to the main switch, as shown.

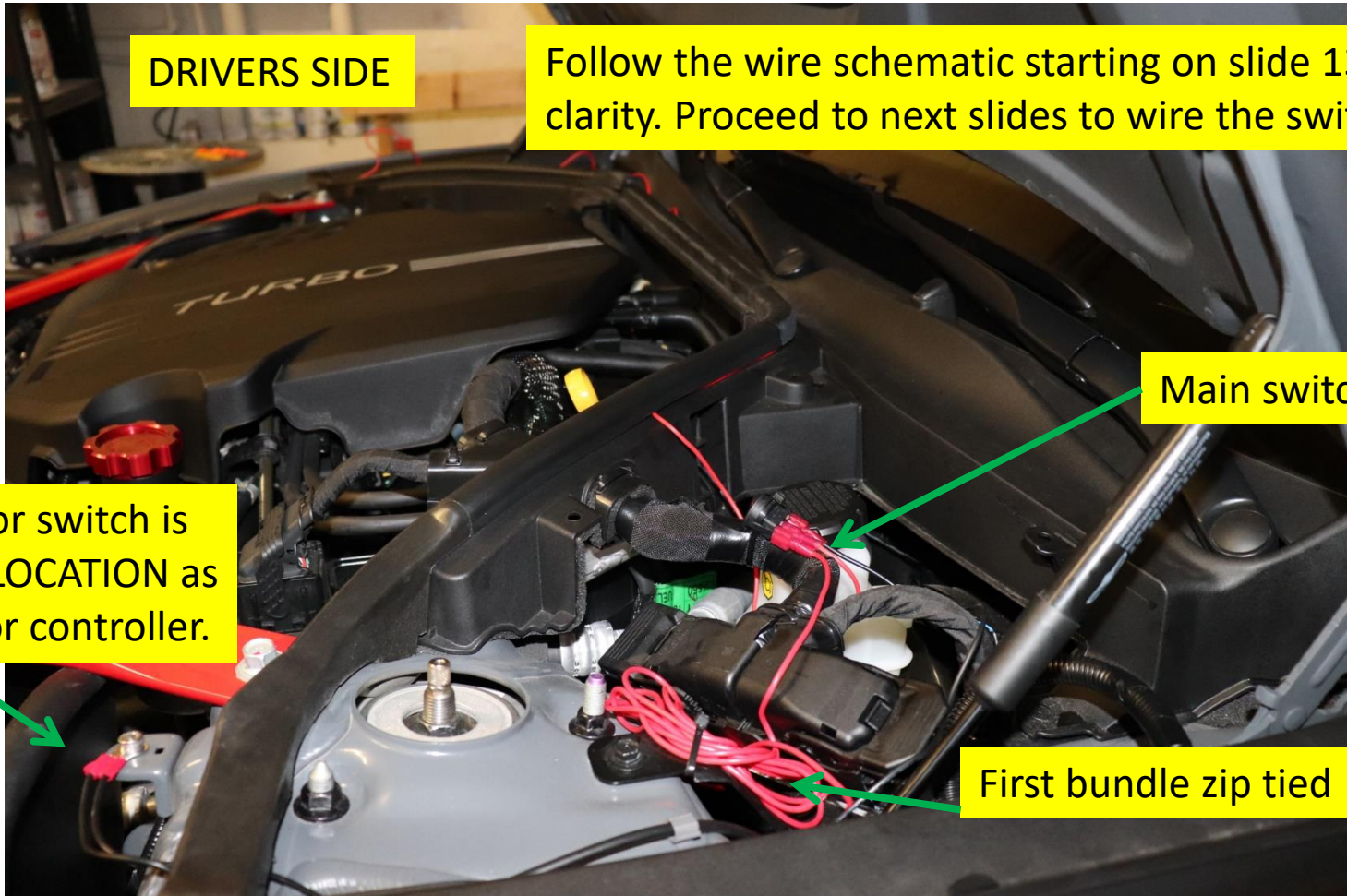
DRIVERS SIDE

Follow the wire schematic starting on slide 13 for clarity. Proceed to next slides to wire the switch.

Main switch

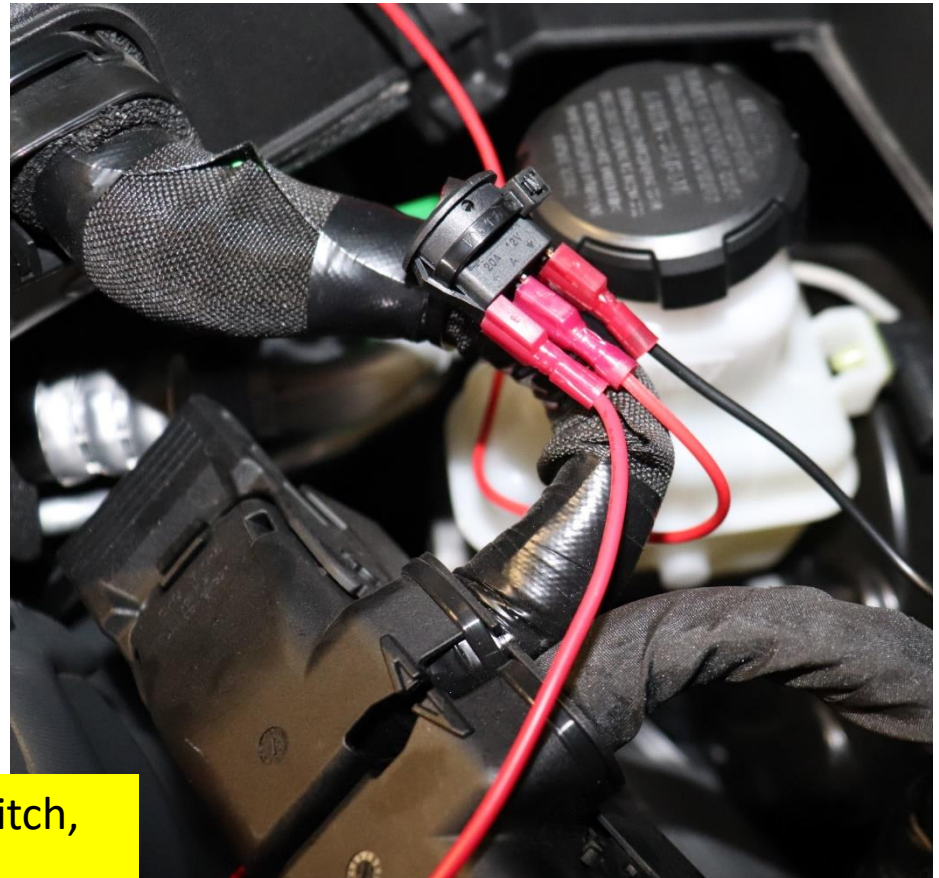
Ground for switch is in SAME LOCATION as ground for controller.

First bundle zip tied



## Power Routing

The main switch has 3 prongs, refer to slide 13 for proper connection. You can zip tie it or mount it wherever you want, it is not necessary to be used on a regular basis. It is only to be used when you want to cut main power to the controller. Your phone should be used to control the power to the LEDs as well as the color.

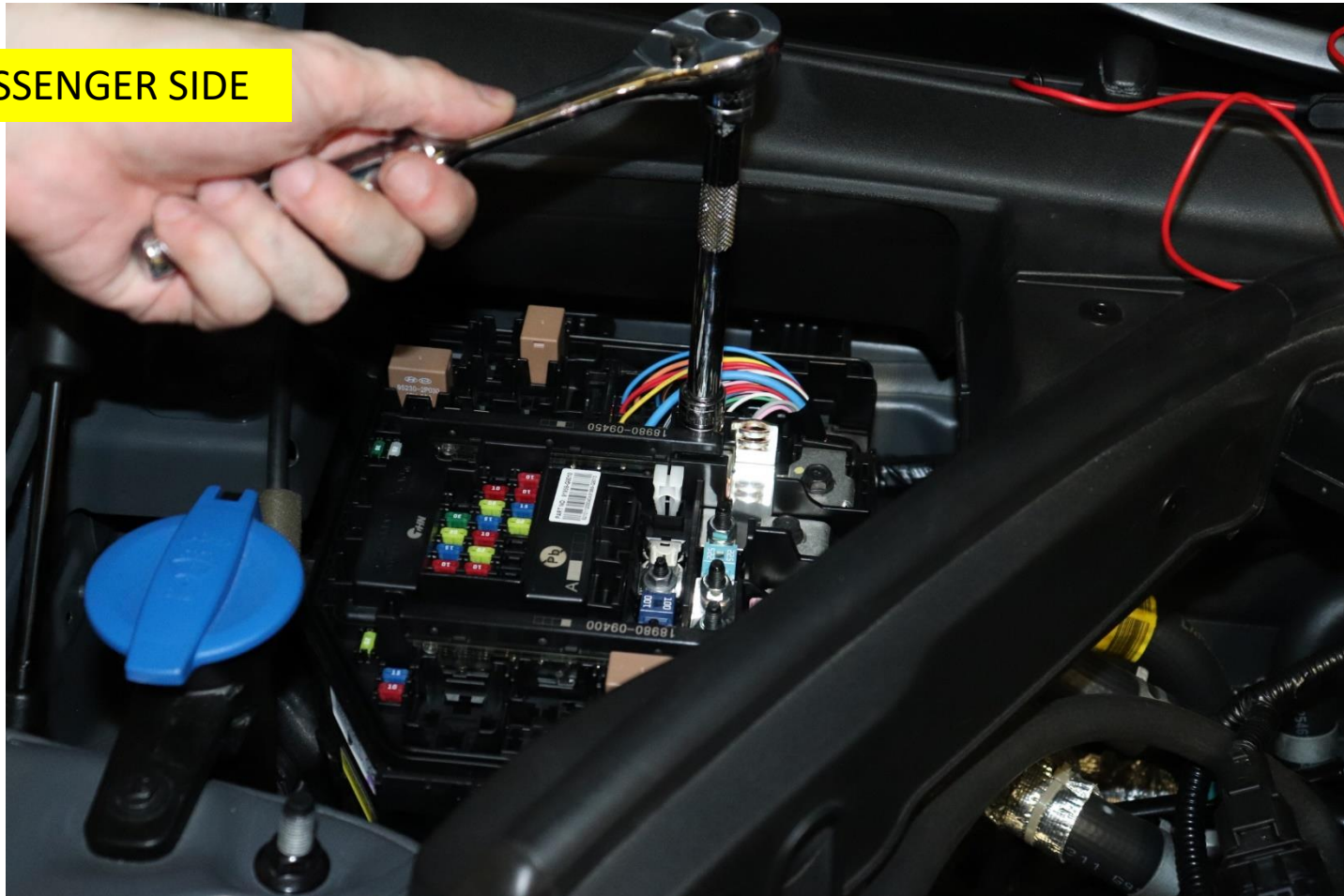


Zip tied bundle to metal bracket nearby switch, see previous slide for zoomed out picture.

## Power Routing

Loosen this bolt, which is the main power terminal for the controller from the car. Be careful not to touch metal with the wrench.

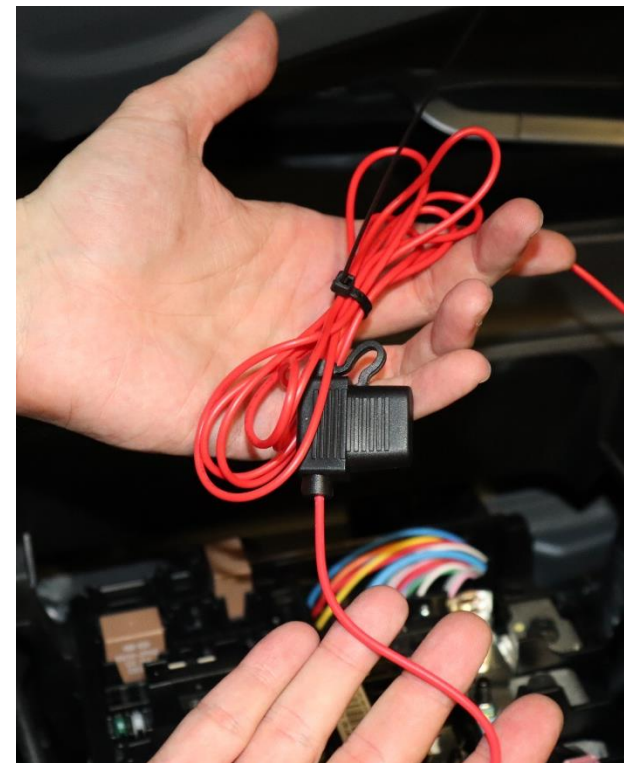
PASSENGER SIDE



## Power Routing

Route the second power wire extension from the switch, across the firewall, and then to the fusebox. Bundle the excess wire as shown and hook up to main (+) terminal from pervious slide.

PASSENGER SIDE



DRIVERS SIDE



## Phone App

Download the Diode Dynamics app and connect via Bluetooth.

How to connect to the app:

1. After installing the app from the app store, open the app on your device.
2. Cycle the power to the Bluetooth controller by unplugging it and plugging it back in or flick the power switch and wait a few seconds, then turn it back on.
3. Wait for the app to detect the controller, it will pop up on the app screen as a Bluetooth controller. If necessary, cycle the power once more to refresh the controller.
4. Once the controller shows up on the app, click it and connect. You have 30 seconds to select the controller once it shows up on the app. After 30 second you will need to refresh again to detect the controller again.
5. Note that if you mounted your controller behind a lot of metal components, this may degrade the signal and range.





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## Finalize

Re-install the bumper the same way it was removed and ENJOY!

