



**2016-2020+ Infiniti Q50/Q60
BIG MOUTH LIT KIT Ram Intake
Installation Guide**

Kit Contents (Q50 Full Lit Kit)

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	Qty
M6 x 30mm SHCP	4
M6 Large Washers	6
M6 Lock Nuts	4
L-Bracket	1
M5 x 12mm SHCP	1
M5 Large Washer	1
M5 Lock Washer	1
M5 Lock Nut	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/ Pigtail Connector	1
8" Zip Ties	2
16" Zip Ties	2
Cable Clips	1
Assembled LIT KIT BIG MOUTH's	2



Kit Contents (Q60 Full Lit Kit)

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	Qty
M6 x 30mm SHCP	4
M6 Large Washers	6
M6 Lock Nuts	4
L-Bracket	1
M5 x 12mm SHCP	1
M5 Large Washer	1
M5 Lock Washer	1
M5 Lock Nut	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/ Pigtail Connector	1
8" Zip Ties	2
16" Zip Ties	2
Cable Clips	1
Assembled LIT KIT BIG MOUTH's	2



Kit Contents (LIT Flares Only)

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

KIT CONTENTS	Qty
Diode Dynamics RGBW Controller	1
Diode Dynamics 1m Extension	1
Positive Cable w/ In-Line Fuse	1
Power Cable w/ Pigtail Connector	1
Switch	1
Switch Ground Cable w/ Pigtail Connector	1
8" Zip Ties	2
16" Zip Ties	2
Cable Clips	3
Assembled LIT Flares	2



If you already own the GEN 4 Kia Stinger BIG MOUTH's, skip ahead to slide 14 for wiring instructions



Bumper Removal

Perform a YouTube Search using the term “How To Remove Your Infiniti Q50's Front Bumper Properly” and follow the steps for bumper removal (same steps for Q60).

Once you remove the bumper, please continue with this installation guide



VELOSSA TECH

Retainer Clip Removal

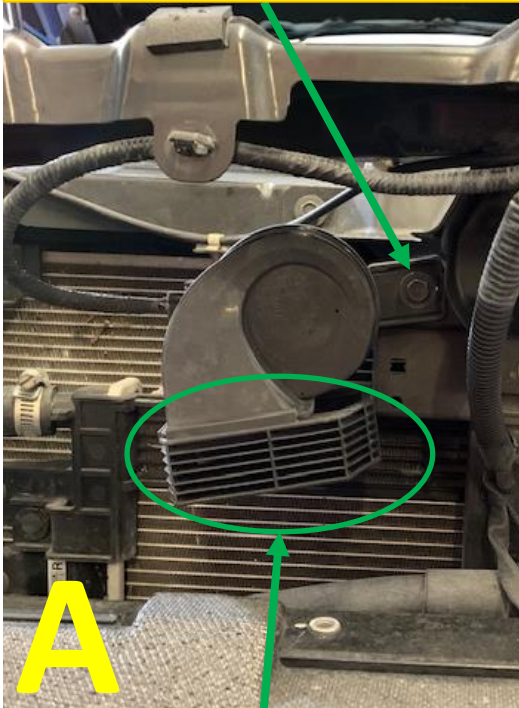
Pinch the wire loom retainer clips as shown and remove the wire looms from the metal frame. Do this to both sides.



Horn Re-orientation (Q50 Only)

If your OEM horn looks like the one in (A), horn will need to be rotated. Remove bolt, loosen the central nut and rotate it 90° so the shield is pointing opposite the mounting bracket. If your OEM horn looks like the one in (B), simply remove the bolt.

Remove bolt (10mm)



Shield

The final position of the OEM horn mount is shown below.



Loosen nut, rotate to this position, then tighten nut.

Remove bolt, do not rotate horn

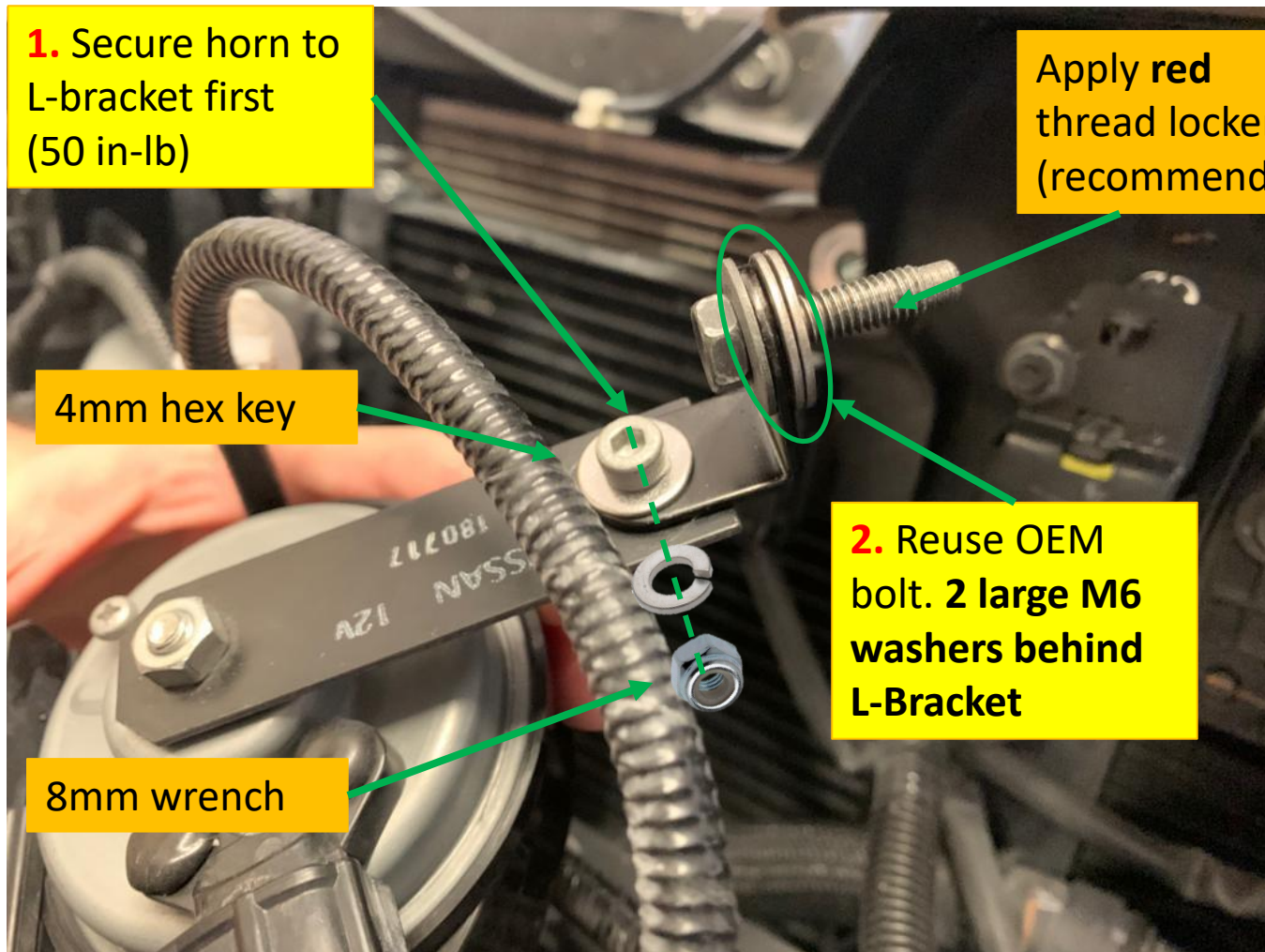


Not shielded

VELOSSA TECH

Horn Re-orientation (Q50 Only)

Use the supplied M5 hardware to fasten the L-Bracket as shown below. Tighten the lock nut to a torque spec of 50 in-lb. **Place 2 large M6 washers behind bracket** and reuse OEM bolt.





VELOSSA TECH

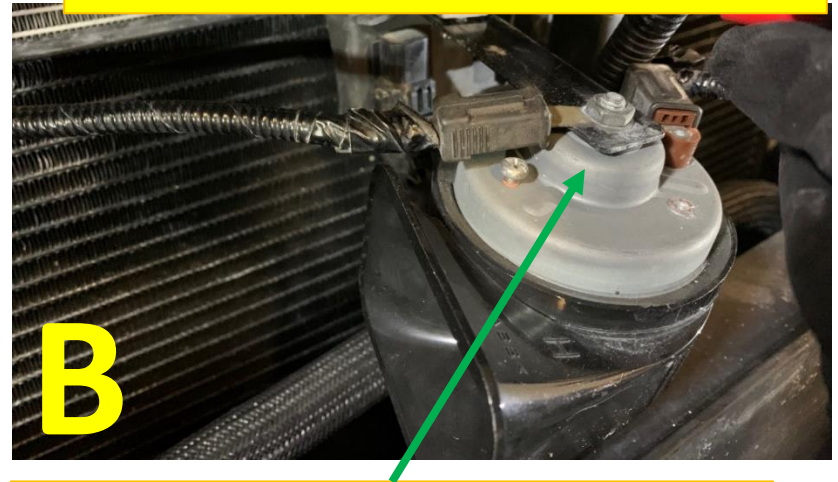
Horn Reorientation (Q50 Only)

Fasten the L-Bracket to the OEM horn mounting hole.

Tighten until
snug + 1/8 turn



(B) type horn shown below, with
ground wire in correct orientation.



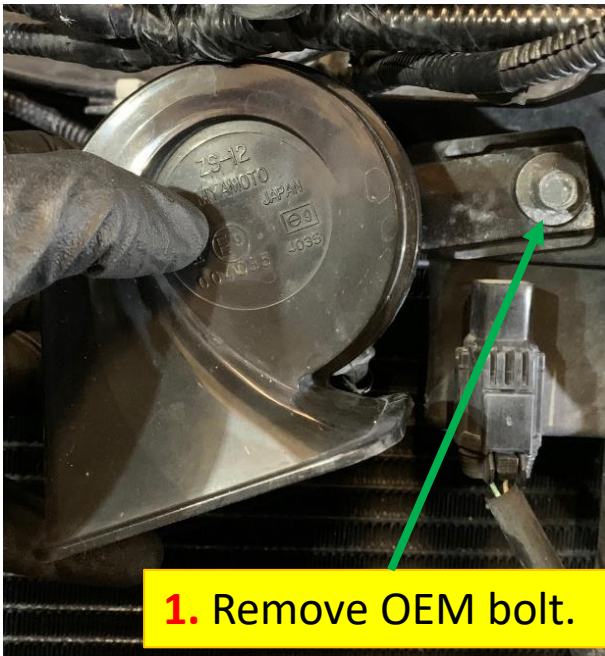
Make sure wire loom is not under
tension or wrapped around horn,
loosen the nut if necessary and
rotate the ground wire.

VELOSSA TECH

Horn Relocation (Q60 Only)

If you DO NOT own a Technology package car, follow this slide by unbolting the horn as shown and relocating it to the screw hole on the crash bar as shown. If you own a Tech package, see next slide.

3. Using the same horn bracket, relocate it here and bolt it down using the OEM bolt.



1. Remove OEM bolt.

2. You will need to loosen the nut on the back of the horn, **rotate the ground wire on the horn such that the wire loom is not under tension in step 3**. Re-tighten the wire onto the horn using the nut.

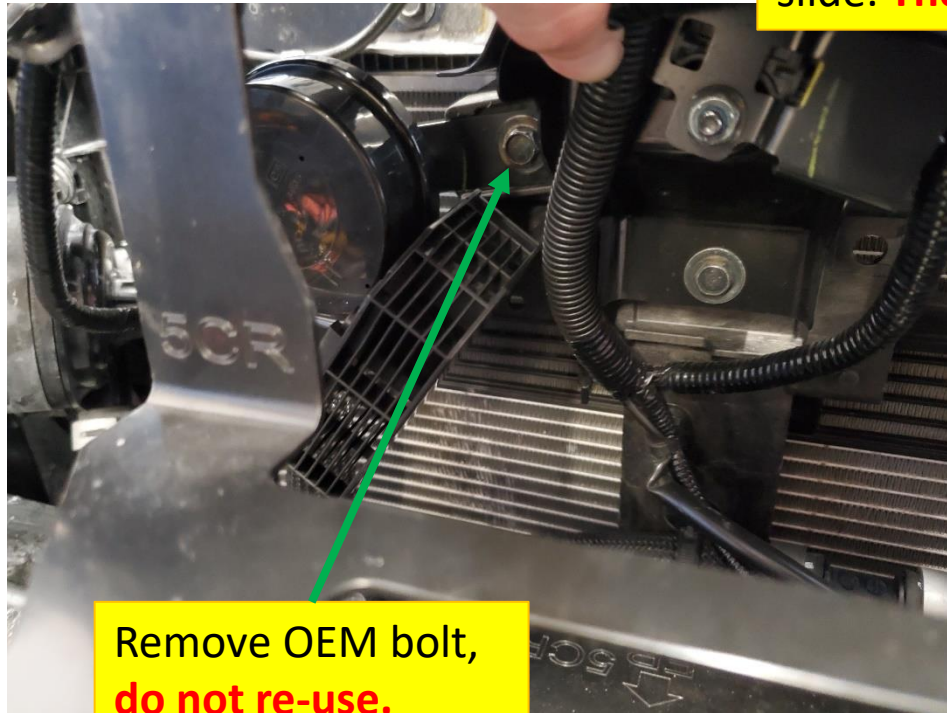


VELOSSA TECH

Horn Relocation (Q60 Only)

If you own a tech package car, follow this slide. Unbolt the horn as shown. **Do not re-use the OEM** bolt to fasten to crash bar. Use the supplied M6 hardware.

Remove the OEM bolt from this hole and see the next slide. **The spacer and small washer will be used here.**



Remove OEM bolt,
do not re-use.

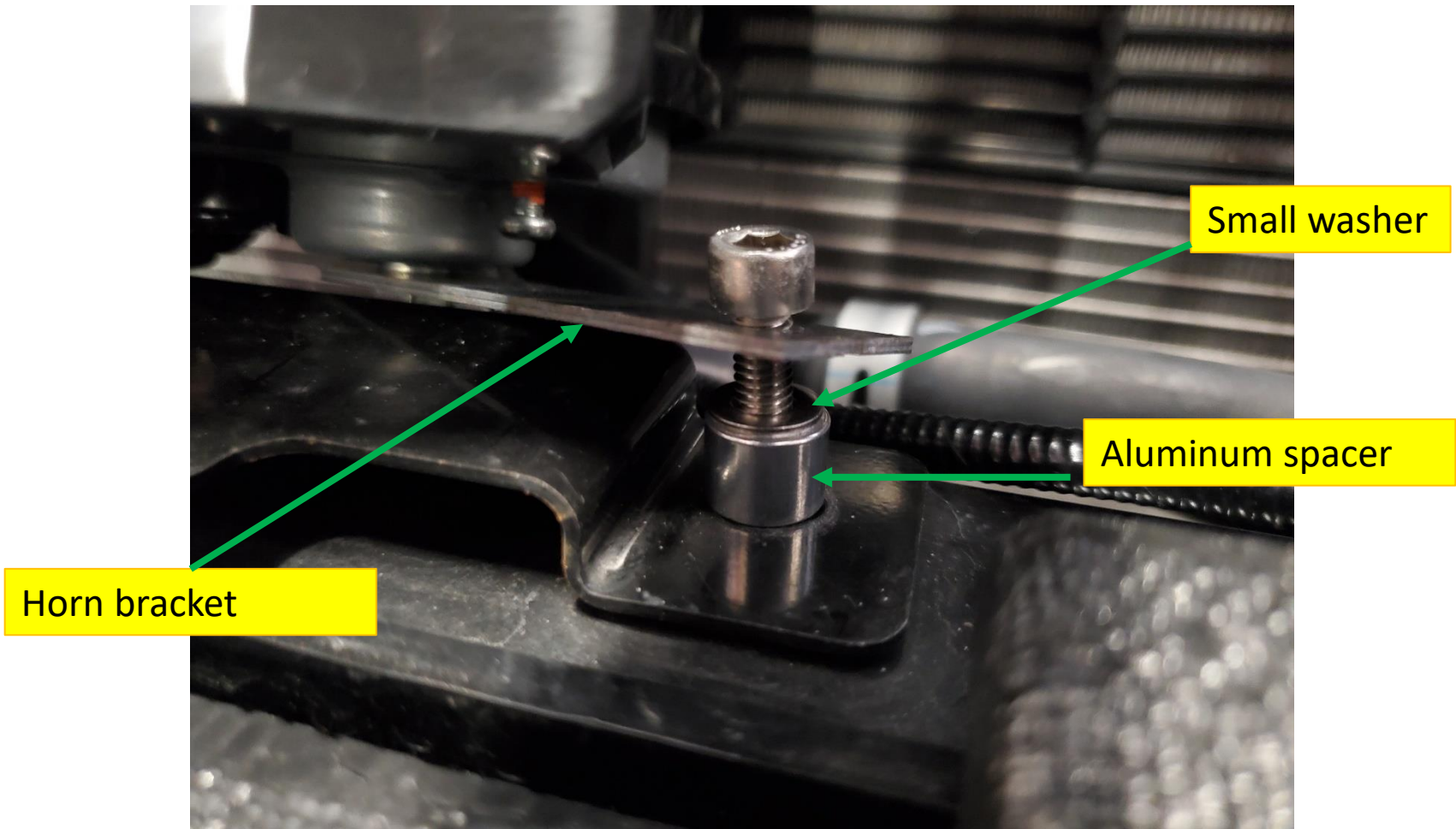


This sensor frame is present on
tech package cars.

See next slide for
more clarity.

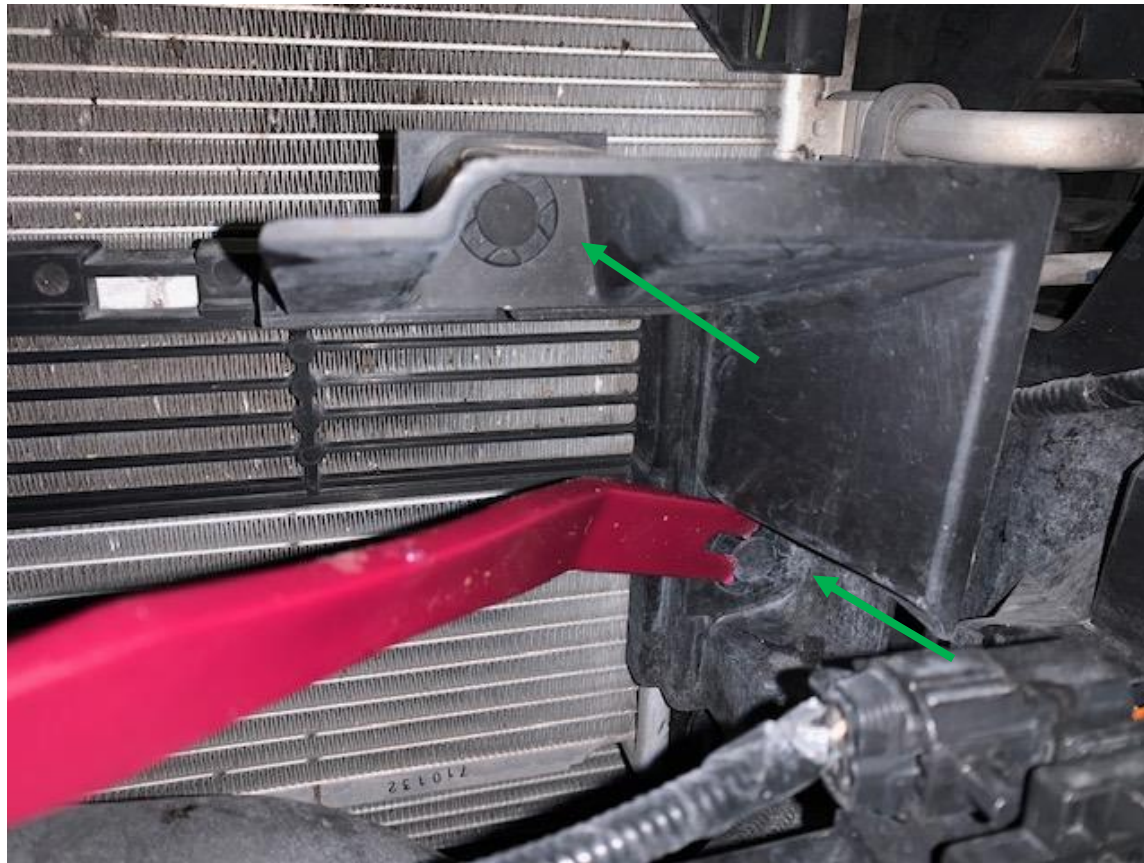
Horn Relocation (Q60 Only)

Fasten the horn to the crash bar using an M6x30 screw, the small M6 washer and the aluminum spacer as shown. Choose an orientation of the horn that does not strain the wire loom.



Big Mouth Installation

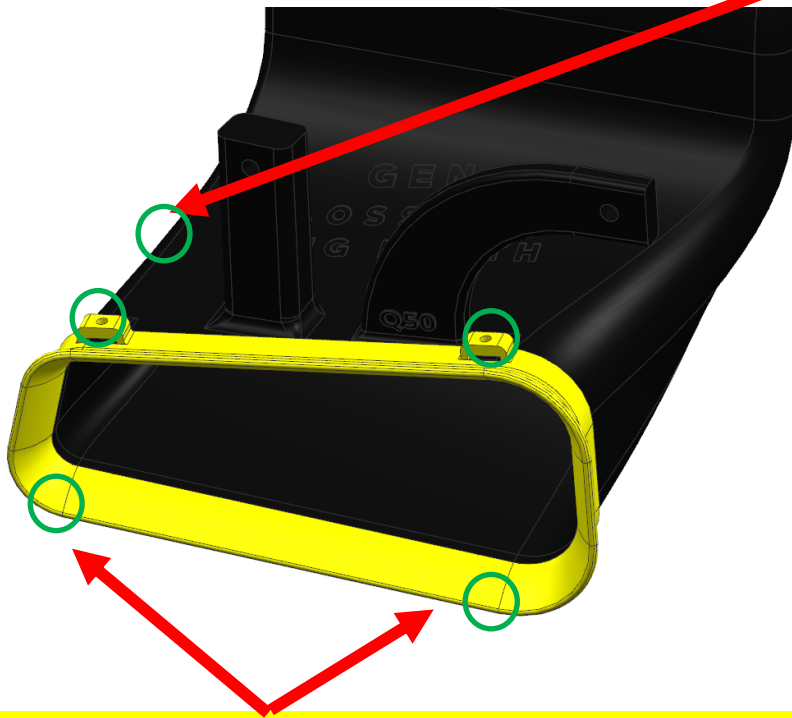
If your stock heat exchanger has this small shroud located on the driver side, remove it by extracting the indicated pop clips. Usually present on Q50 models.



Install the BIG MOUTH LIT Flares

SKIP THIS SLIDE IF YOU PURCHASED A FULL KIT

Clean the surfaces well, and apply the strain relief cable clips, apply modest pressure.



Remove the flares by unscrewing the 4 set screws on each flare. Screw the new LIT KIT flares on your BIG MOUTH bodies.



VELOSSA TECH

Big Mouth Installation

Insert the BIG MOUTH in an upward sweeping motion as indicated. Align the holes and use the supplied M6 x 30mm bolts + 6mm large washers (front) and M6 locknuts (rear) to fasten. Turn by hand at first in order to avoid cross threading, use a 5mm hex key and 10mm wrench for tightening. Install both BIG MOUTH intakes this way.



BIG MOUTH Installation

Plug the supplied Diode Dynamics LED extension cable into the driver side LED power cable as shown, route the LED power cable underneath as shown.



Take notice of the notch within the M8 female connector. The connectors must be properly oriented to connect. Improper alignment can damage the pins within the male connector.

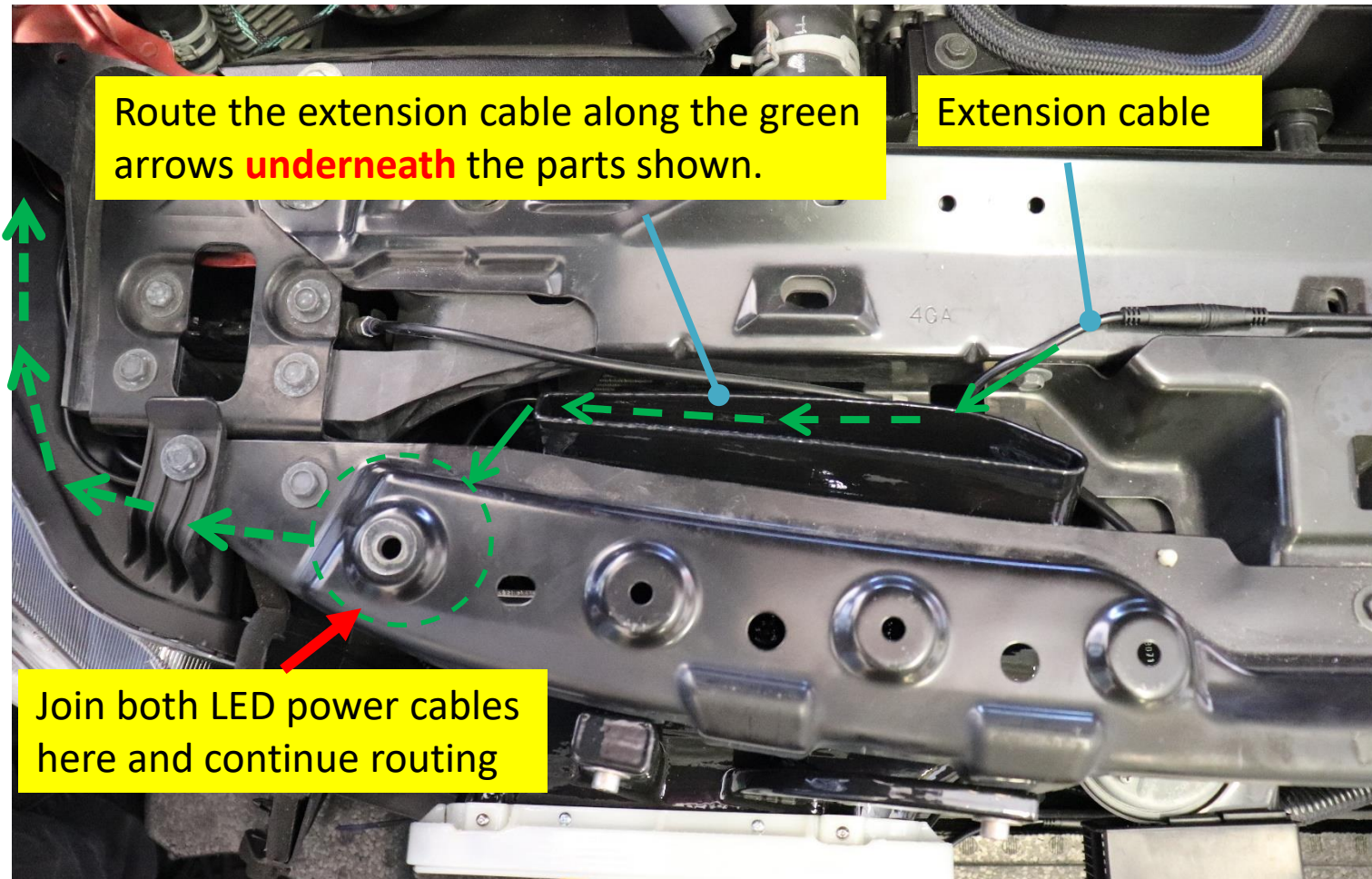
BIG MOUTH Installation

Prepare the following locations by wiping down with a clean cloth or paper towel, let dry. Apply the LED cable relief clip as shown and clip the extension cable.



BIG MOUTH Lit Kit Prep

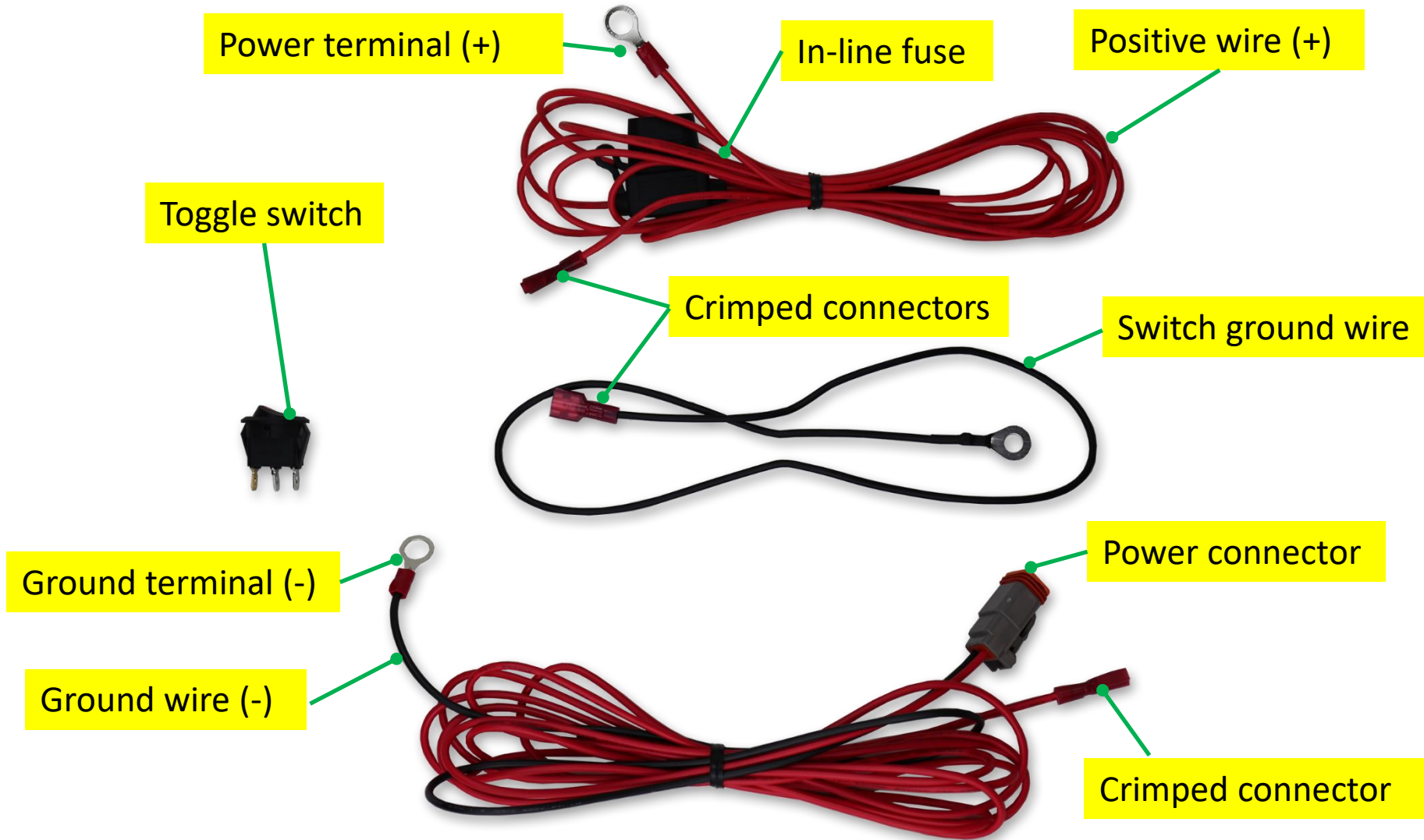
Route the extension cable underneath the intake as shown, join the extension cable from the driver side LED with the passenger LED and continue routing.





VELOSSA TECH

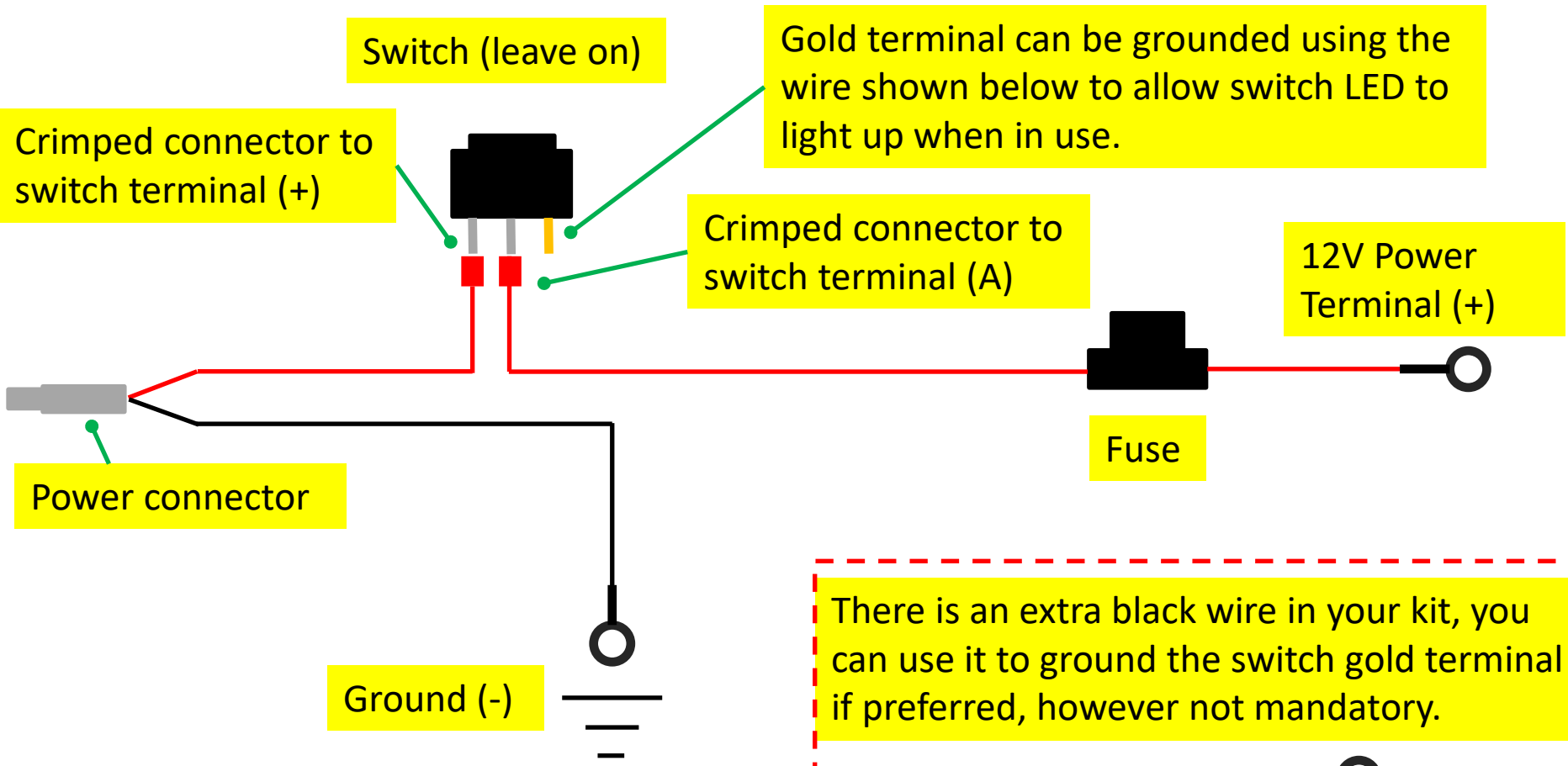
Wiring Harness





VELOSSA TECH

Wiring Harness Schematic



Crimped connector to switch terminal (+)

Switch (leave on)

Gold terminal can be grounded using the wire shown below to allow switch LED to light up when in use.

Crimped connector to switch terminal (A)

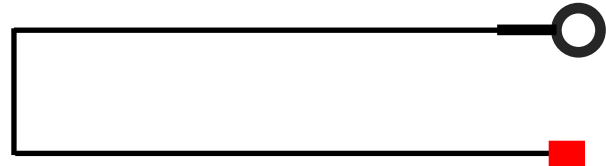
12V Power Terminal (+)

Fuse

Power connector

Ground (-)

There is an extra black wire in your kit, you can use it to ground the switch gold terminal if preferred, however not mandatory.

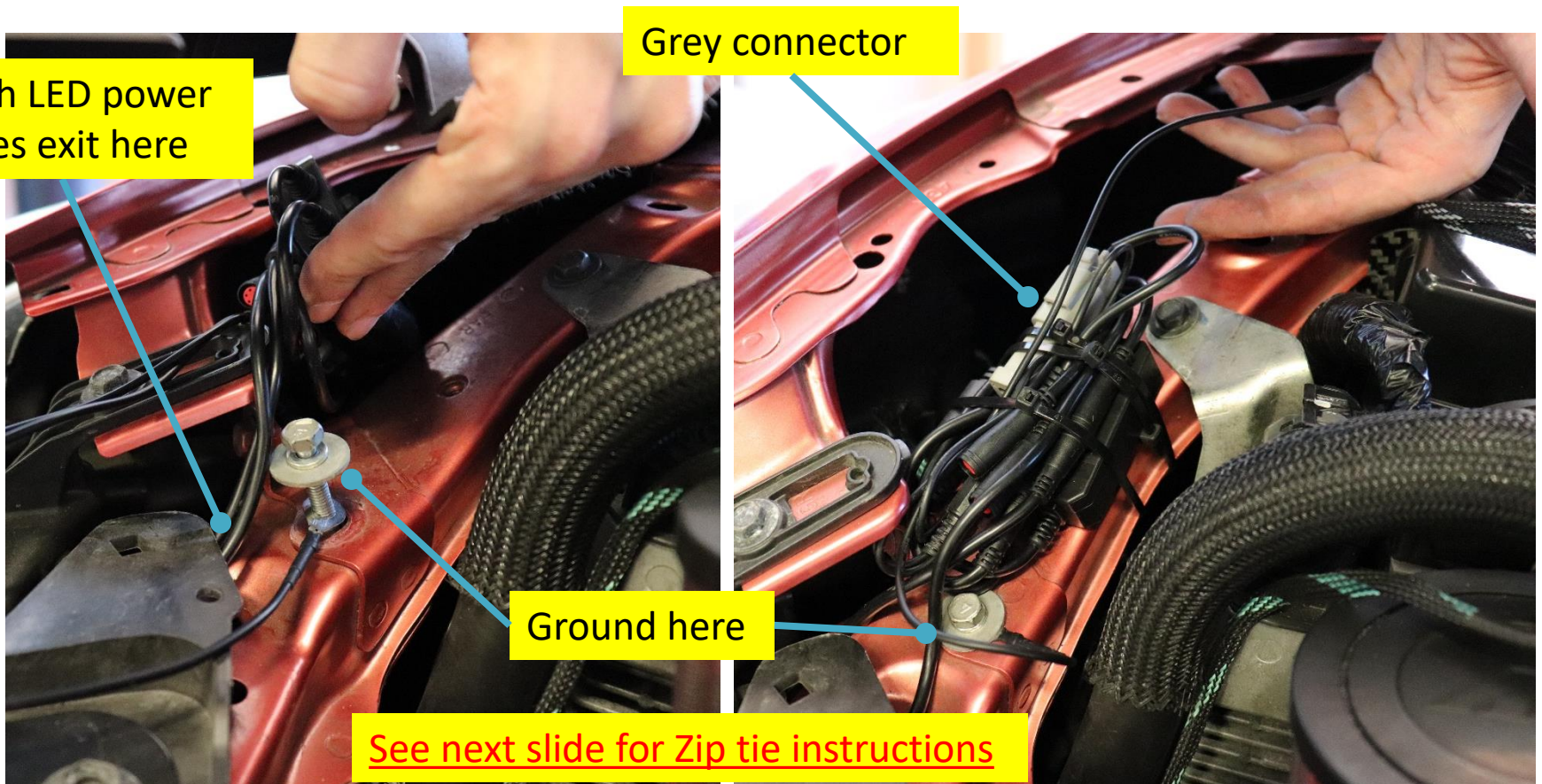


BIG MOUTH Lit Kit Prep

Fasten the ground lug to the frame using the indicated OEM bolt.

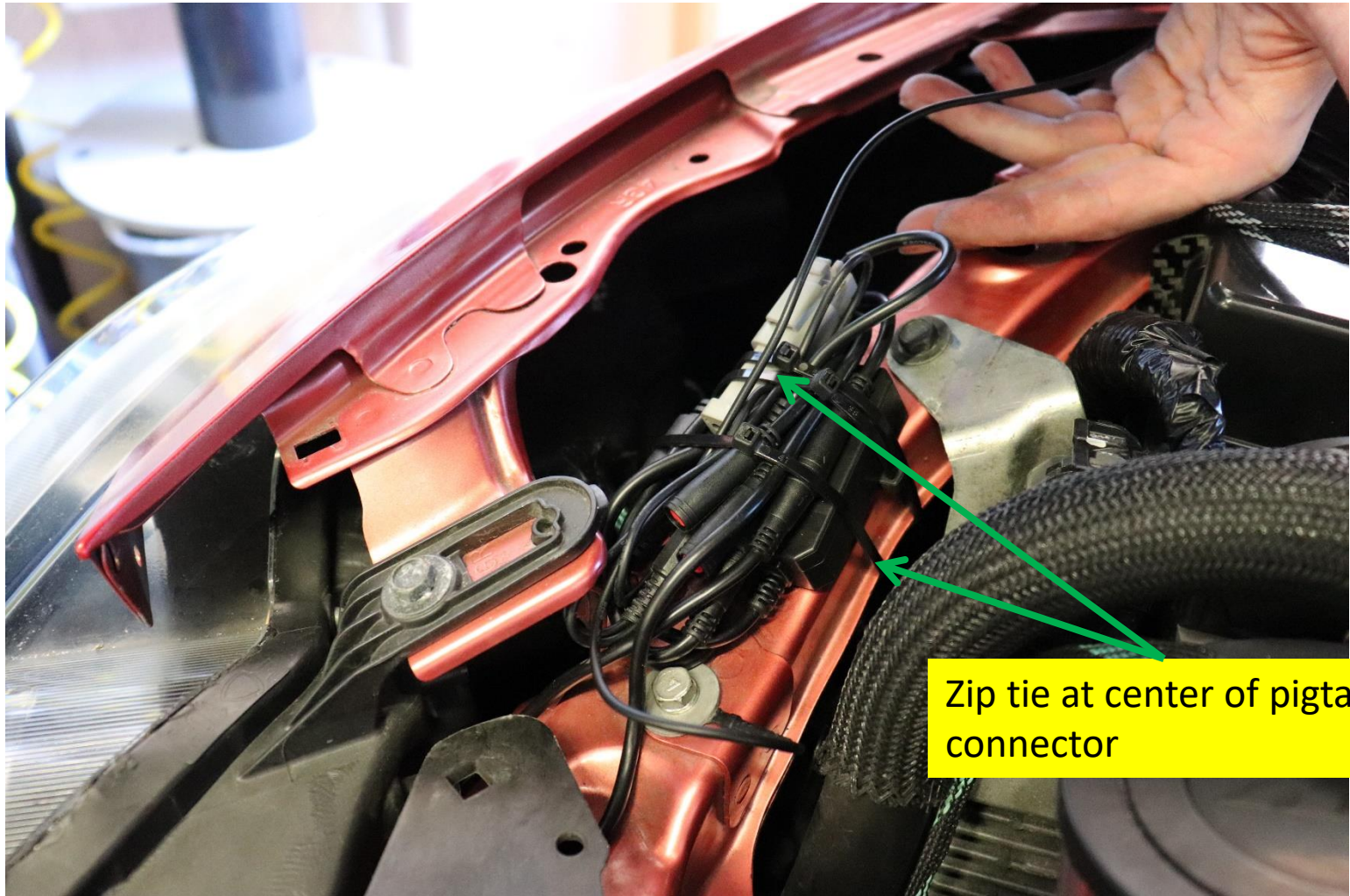
Connect the following:

1. The LED power cables to the Diode Dynamics RGBW Bluetooth controller.
2. The grey power connector to the Bluetooth controller.



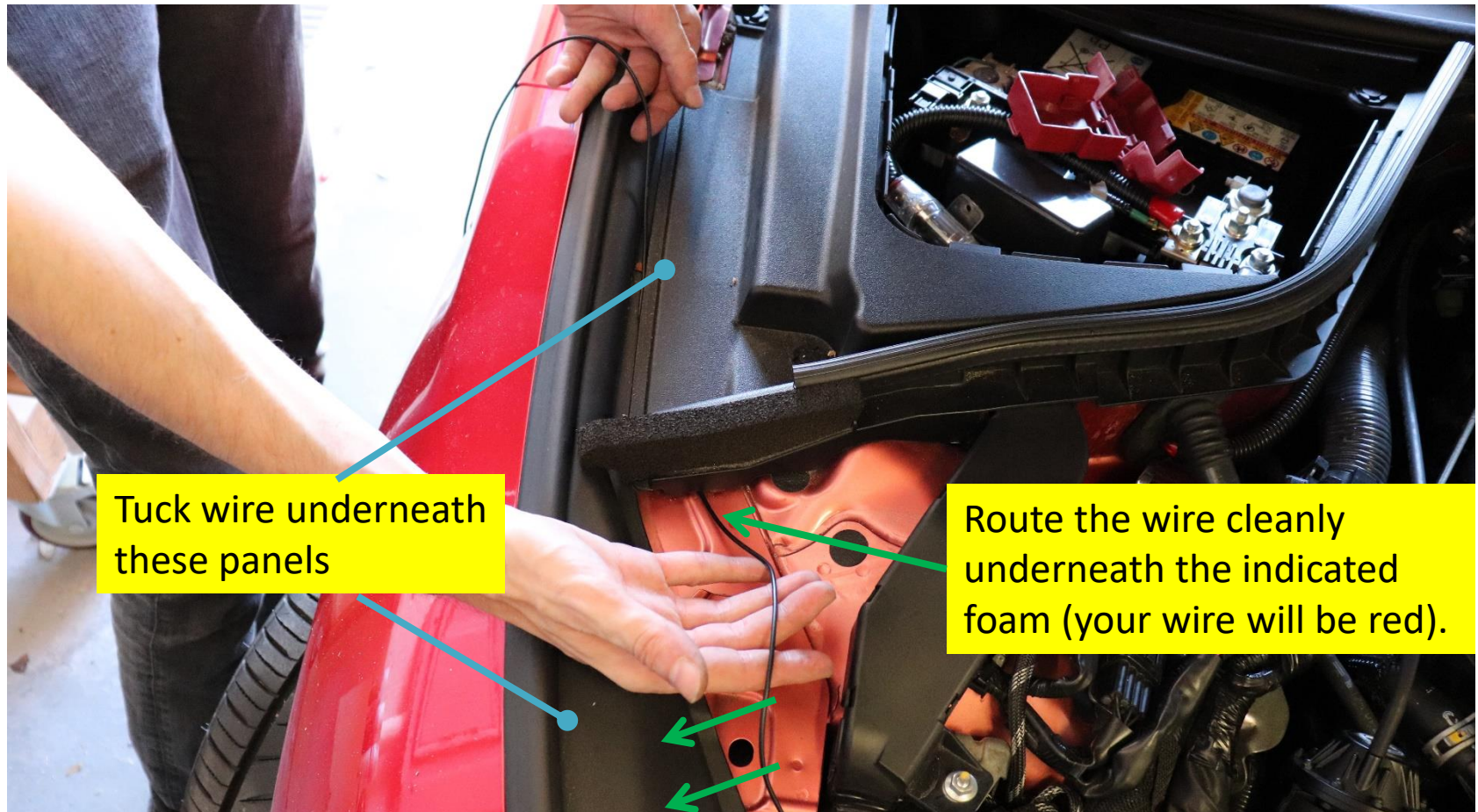
BIG MOUTH Lit Kit Prep

Bundle all the cables together neatly. Do not strain the cables with tight radius bends or tugging in any place. Use the 16" zip ties to fasten to the frame here.



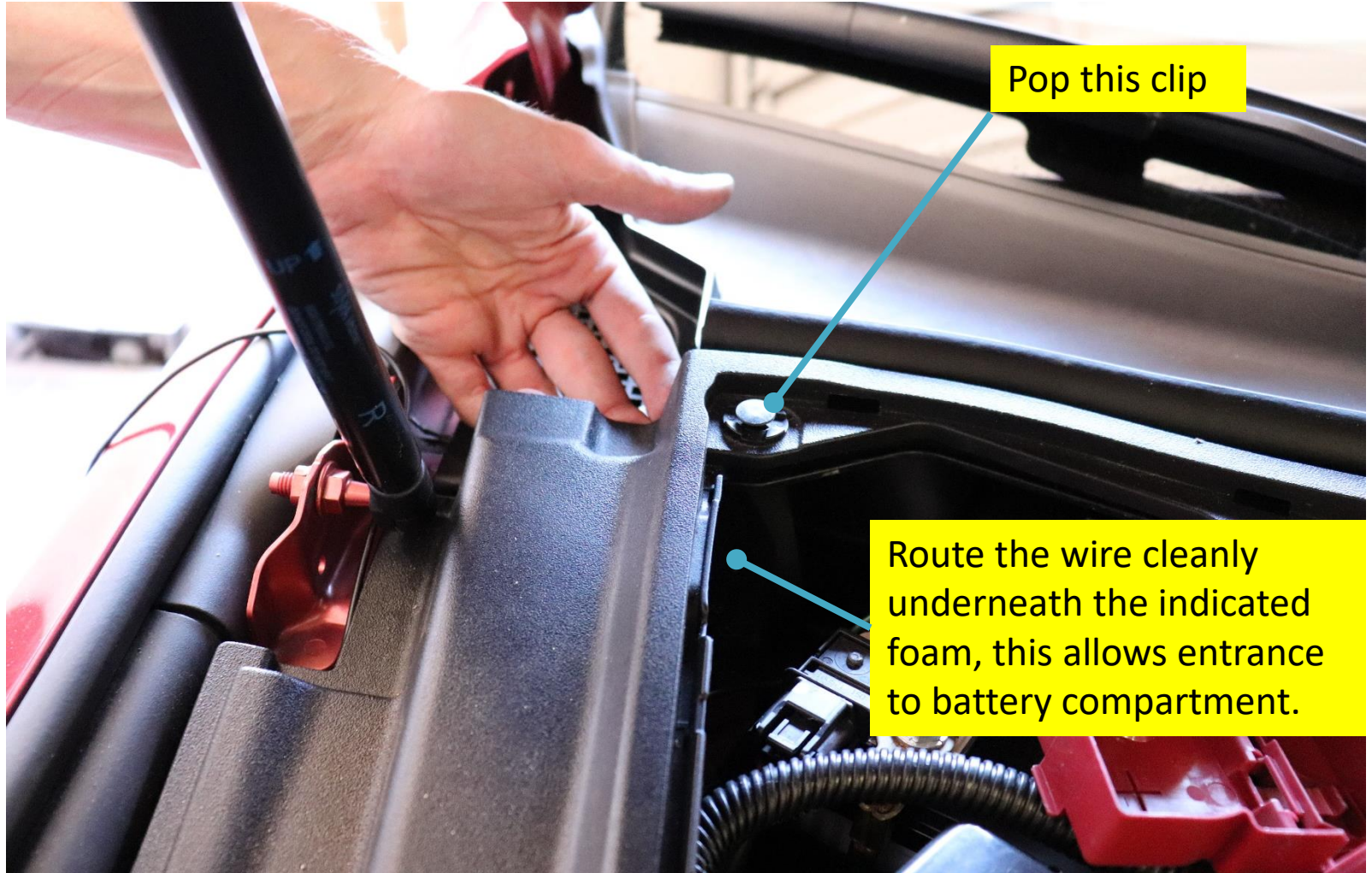
Wire Routing

Route the power wire as such towards the fuse box where it will be connected to the supplied switch.



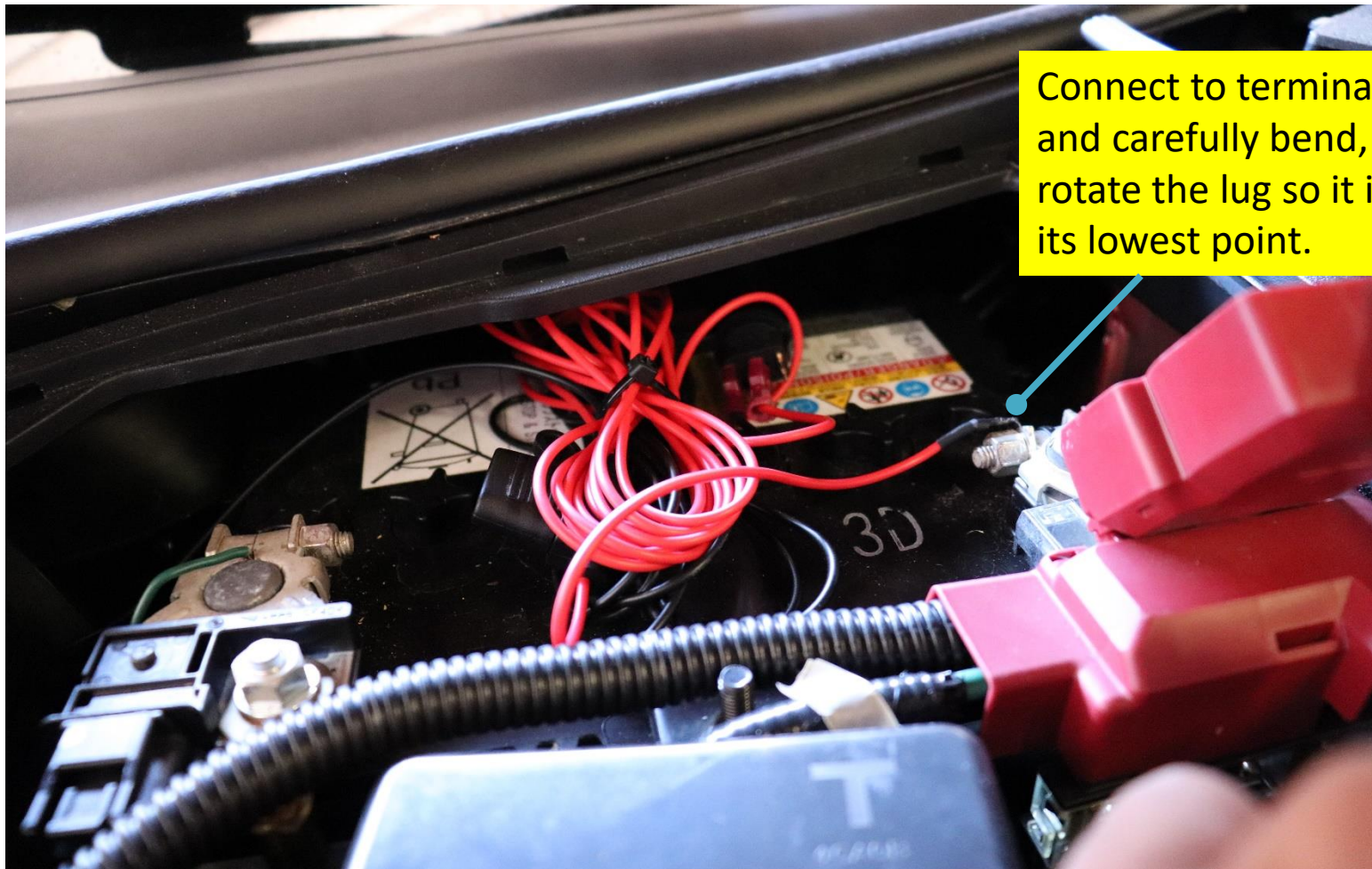
Wire Routing

Route the power wire through the indicated fuse box opening



Connecting LIT KIT Power

Connect the red power wires to the switch as shown on slide 24. Bundle excess wire with an 8" zip tie to top of battery bracket as shown. Connect the power ring terminal, rotate it and bend it carefully so the terminal cover can close.



Final Configuration



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.





VELOSSA TECH

Finalize

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

