



2014-2019 MK7/7.5 Fiesta ST Headlight Ram Air Intake Installation Guide



Kit Contents (Full Kit)

Please review this document before attempting installation.

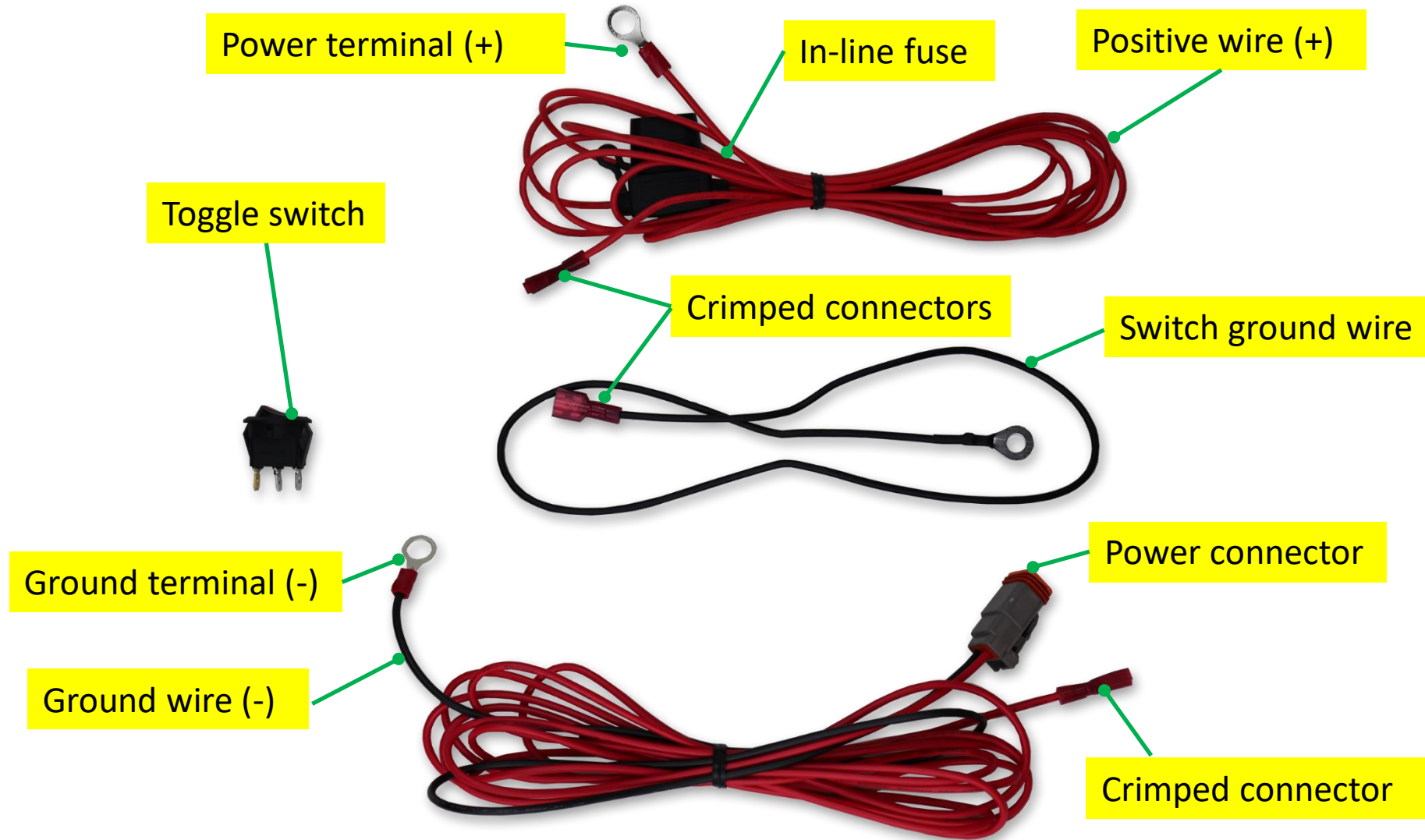
You will need basic hand tools and 2 hours of installation time.

Kit Contents	Qty
Fully assembled headlight intake kit	1

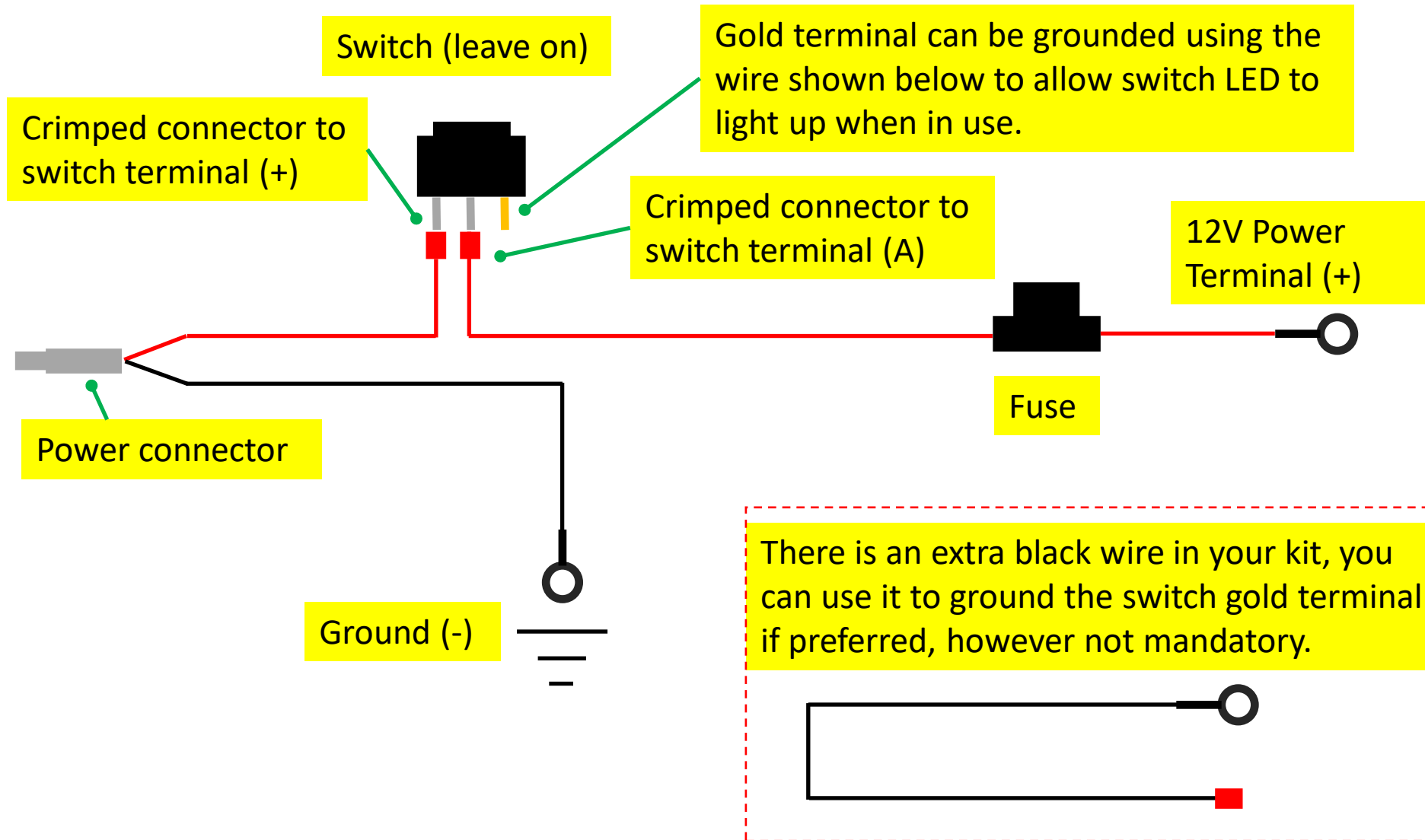




Wiring Harness

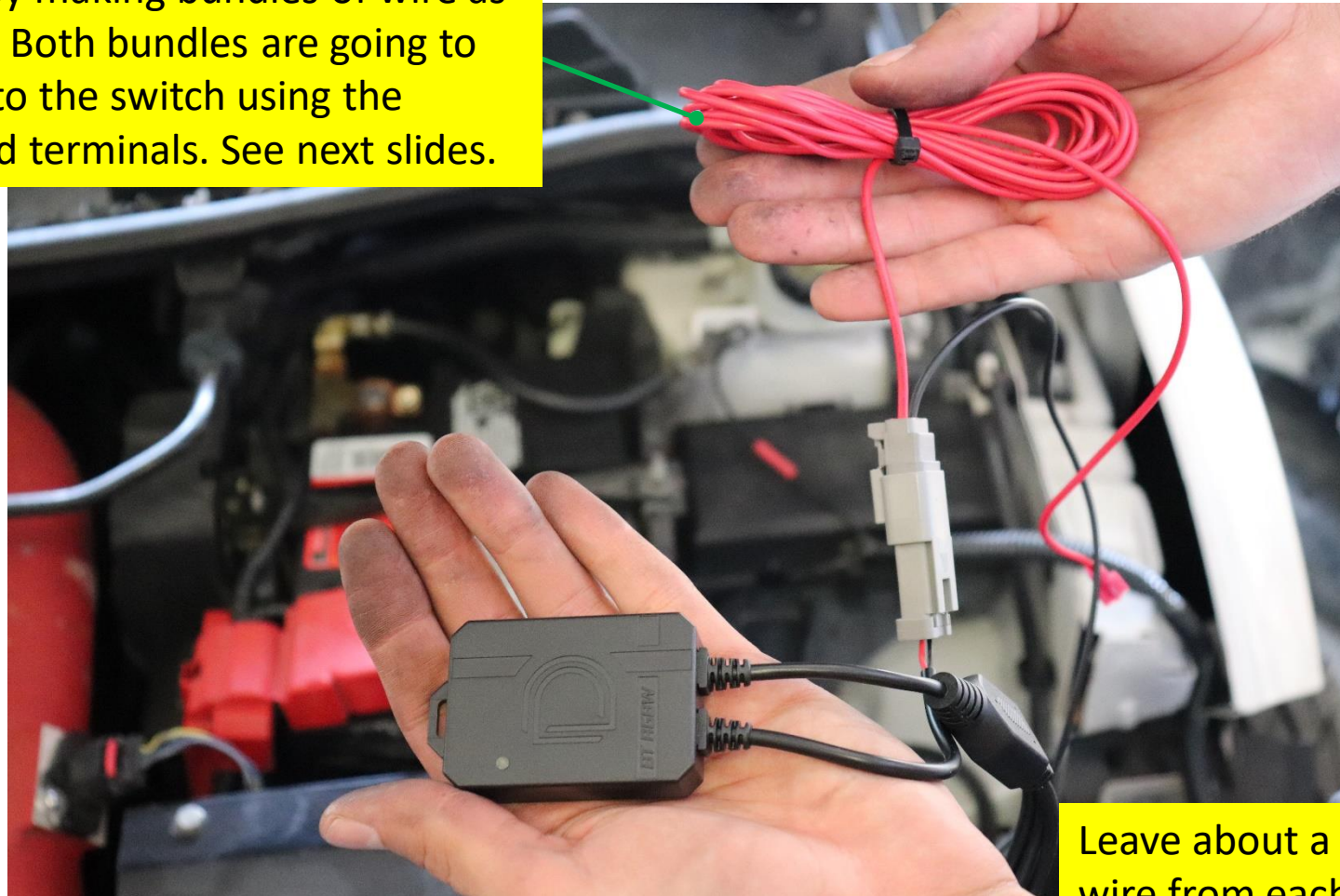


Wiring Harness Schematic



Wire Management

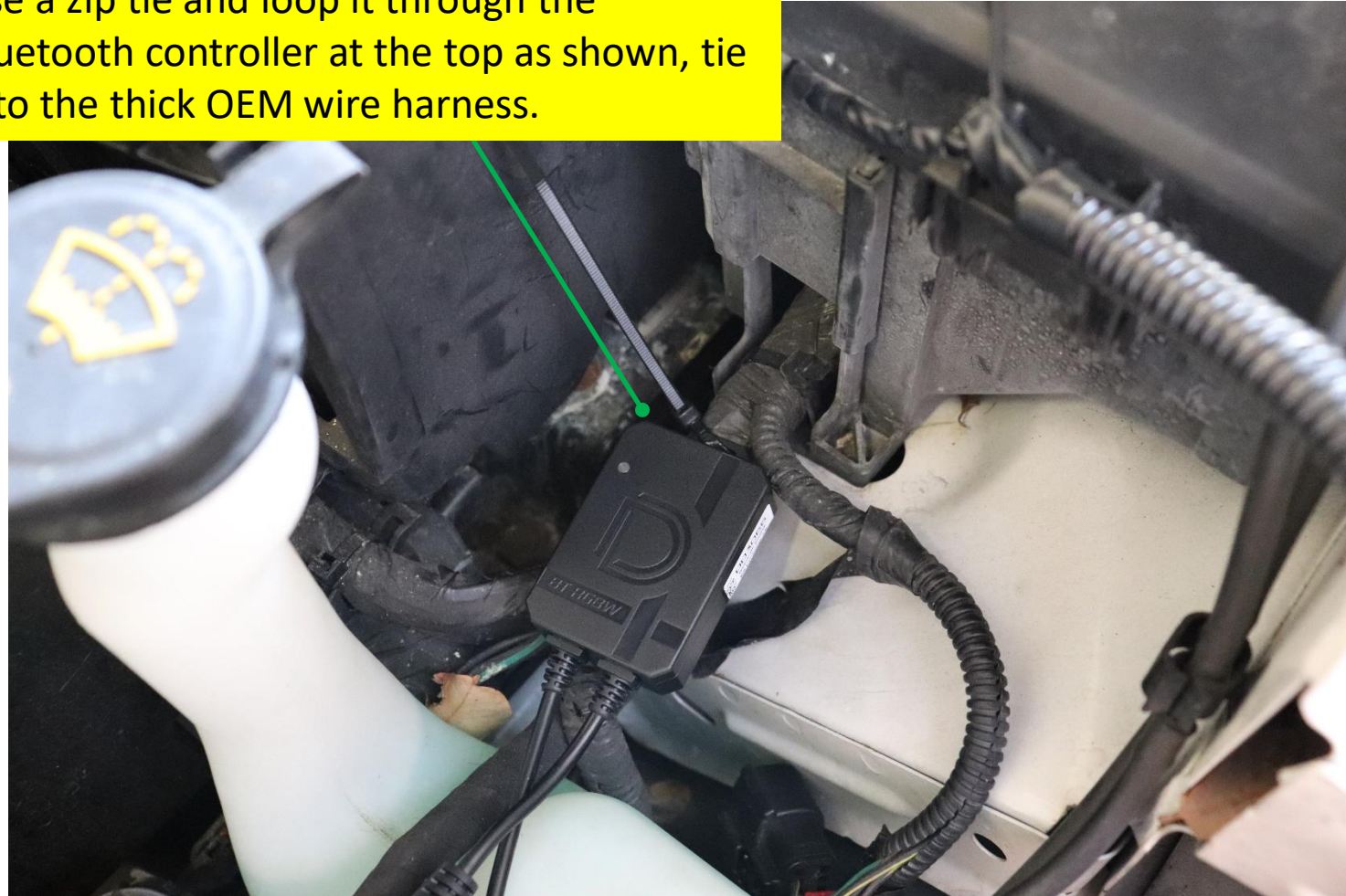
Begin by making bundles of wire as shown. Both bundles are going to plug into the switch using the crimped terminals. See next slides.



Leave about a foot of wire from each bundle.

Wire Management

Use a zip tie and loop it through the Bluetooth controller at the top as shown, tie it to the thick OEM wire harness.





Wire Management

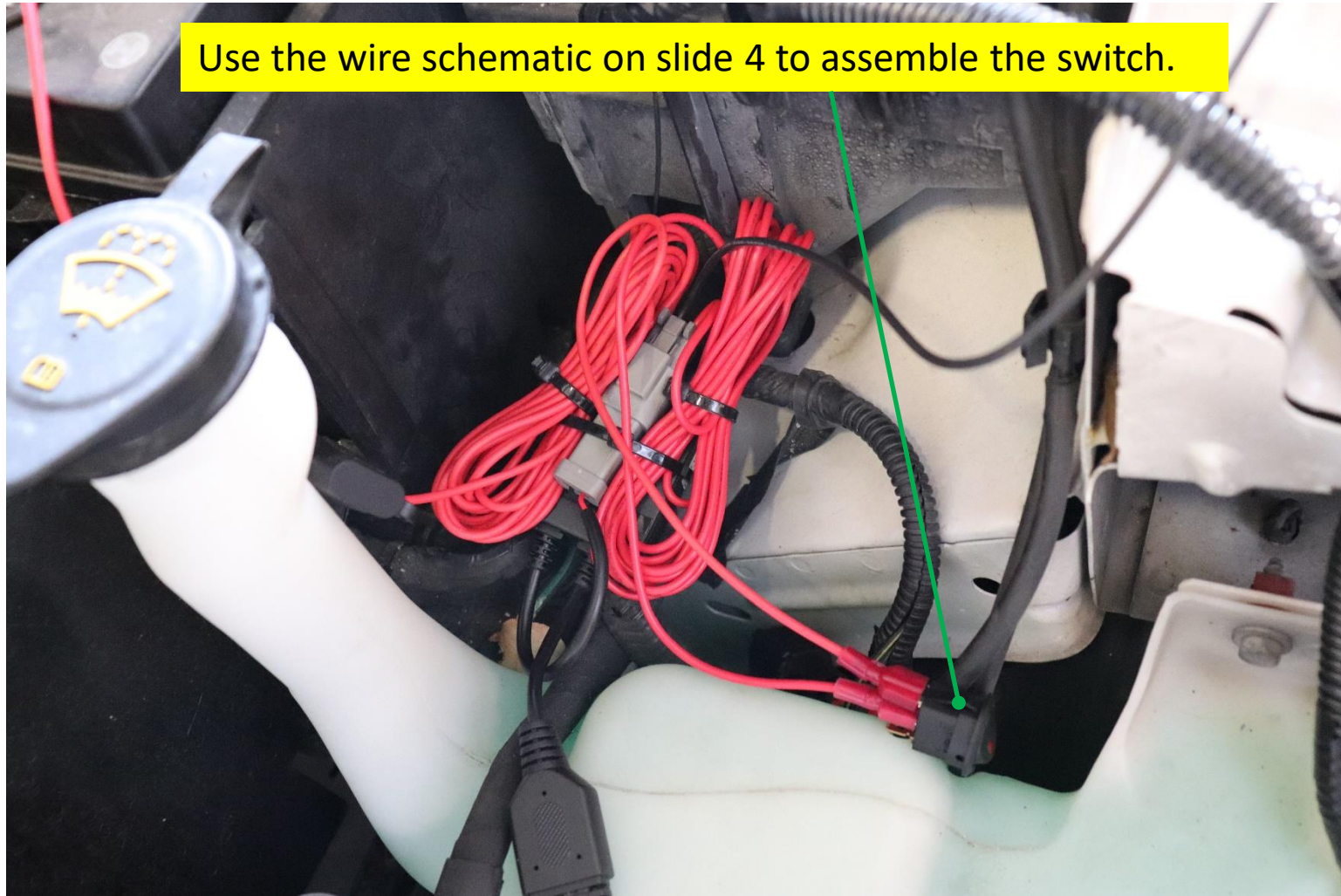
The two bundles of power wire will be zip tied separately first. Then, they will be zip tied to the controller around the thick OEM wire harness. If you find it hard to secure the zip tie, go through the bundles with the zip tie instead of over them. See picture.



There are a total of 4 zip ties in this picture, 1 for each separate bundle packet and 2 zip ties to fasten the controller and bundles together around the OEM thick harness.

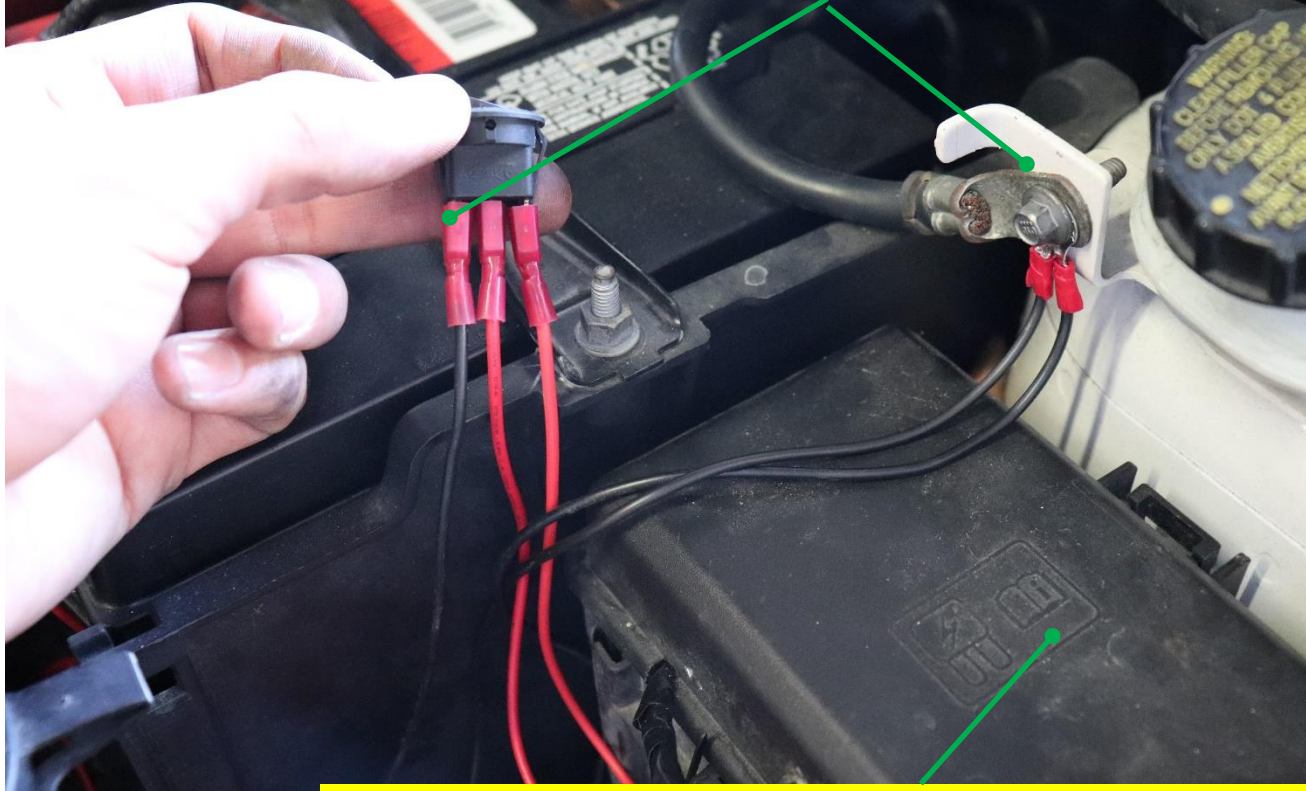


Wire Management



Wire Management

You may ground everything to this OEM bolt. You may optionally ground the switch with the small black wire included in the kit, although not mandatory (grounding the switch allows the small LED to light up on the switch when it is on).



Use the wire schematic on slide 13 to assemble the switch.



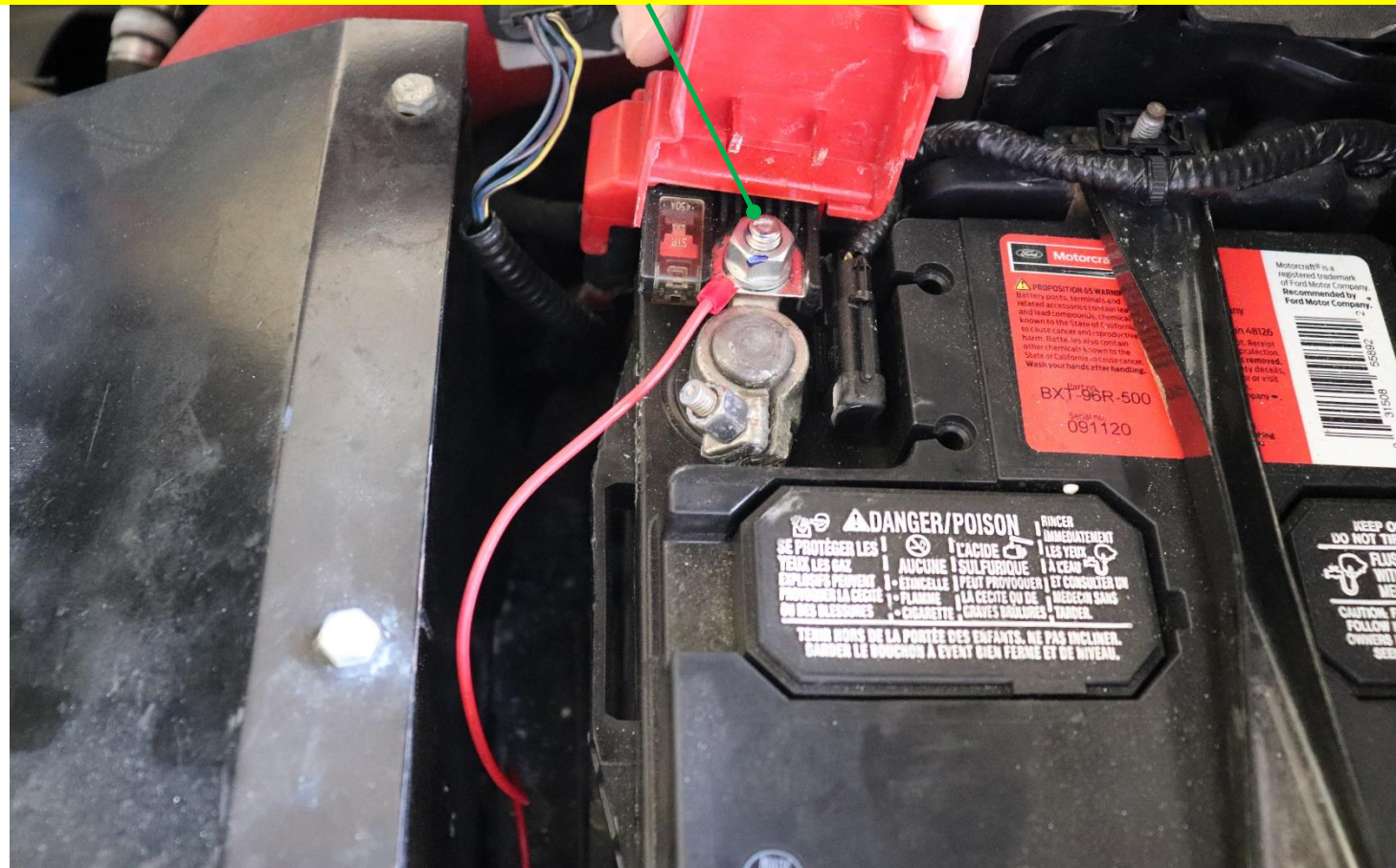
Wire Management

Plug in the LED power cable into two of the four ports on the controller, the other two ports can be used for other Diode Dynamics products.



Wire Management

Supply power to the controller by unscrewing this OEM nut on the battery terminal and fastening the supplied power cable.





Wire Management

You can tuck the switch into this gap as shown; or mount it elsewhere.



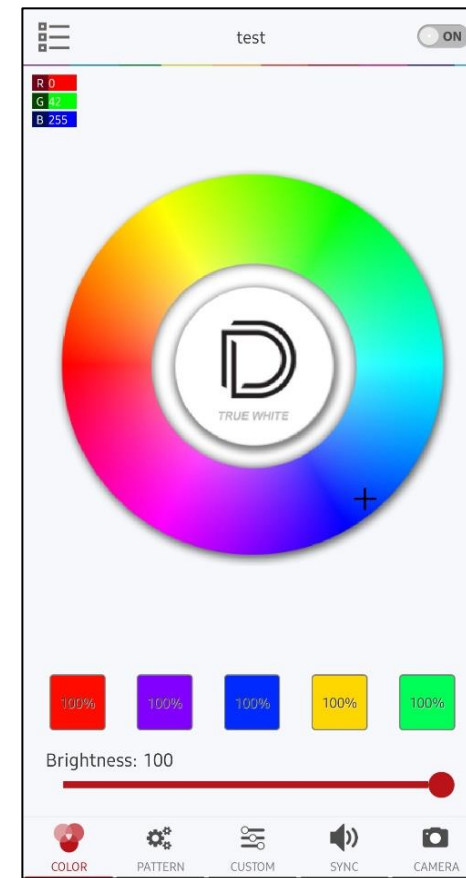


Phone App

Download the Diode Dynamics app and connect via Bluetooth.

How to connect to the app:

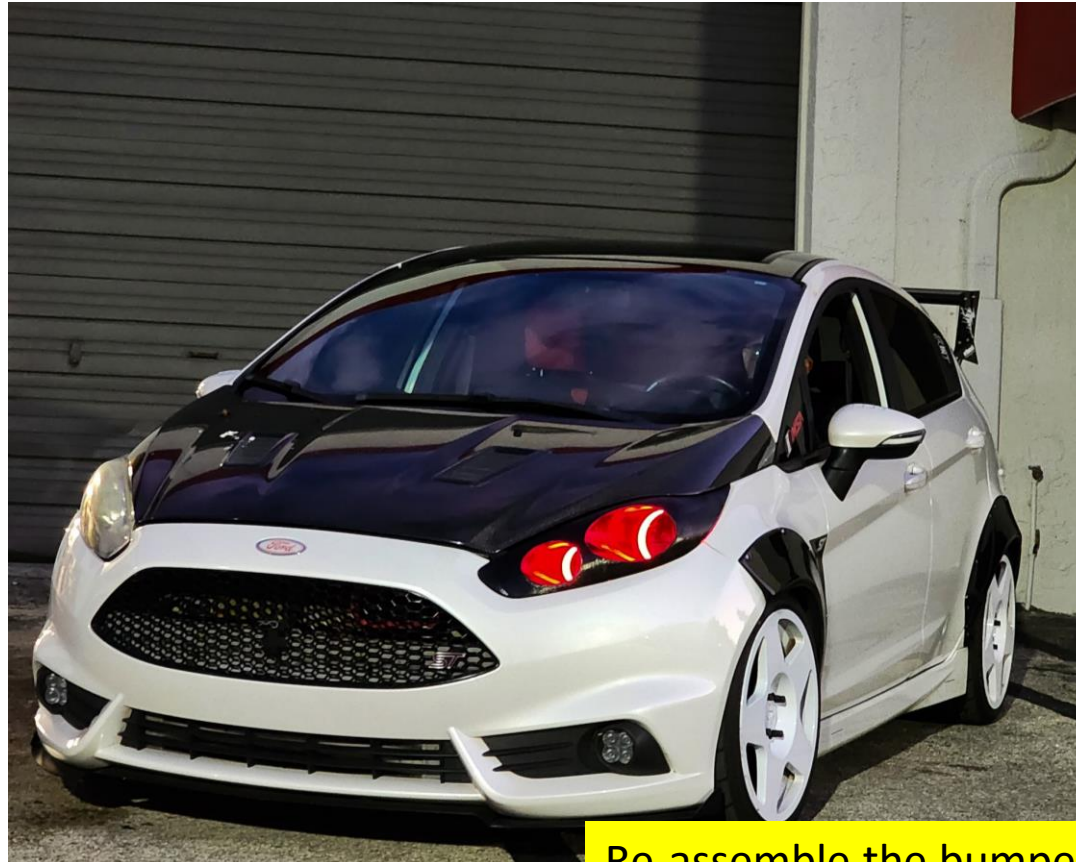
1. After installing the app from the app store, open the app on your device.
2. Cycle the power to the Bluetooth controller by unplugging it and plugging it back in or flick the power switch and wait a few seconds, then turn it back on.
3. Wait for the app to detect the controller, it will pop up on 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.





Final Assembly Review

Review the install and make sure nothing is binding or causing any preload on any parts, loosen and retighten if adjustment is necessary.



Re-assemble the bumper the same way it was removed to complete installation.