

I want to begin by thanking HZHAO, OBSIDIANBL, RAMACHER and everyone else who contributed to the lane change flashing mod. Their work and research made this mod possible. I only documented my assembly for those who are hesitant to take on a mod like this.

The parts listed by RAMACHER are spot on. The communication and turn around time with hi-1000ec.com is second to none. Using their EMS delivery service, I had the parts in my hand within three (3) days of ordering. Not only did they provide a tracking number, they provided a photo of the addressed package.

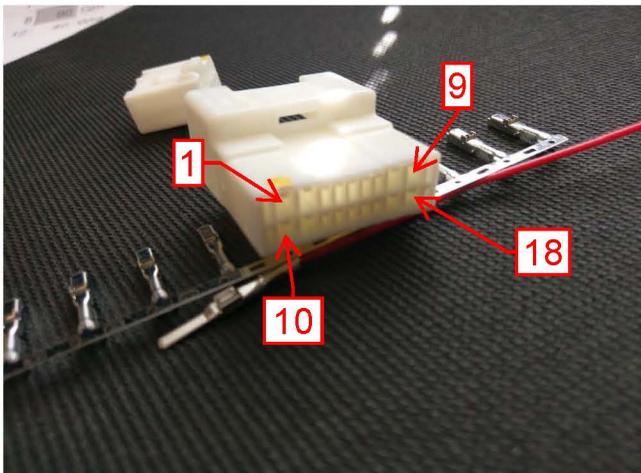
Upon arrival of the parts you'll need these tools: sharp wire strippers for 20 AWG stranded wire; molex/DR-1 crimper plier tool; black electrical tape

Amazon has a set for < \$30.

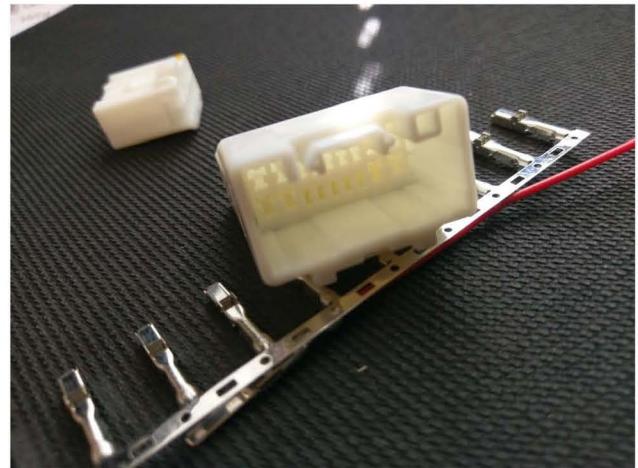
[https://www.amazon.com/gp/product/B07Q43G4HQ/ref=ppx\\_yo\\_dt\\_b\\_asin\\_title\\_o00\\_s00?ie=UTF8&psc=1](https://www.amazon.com/gp/product/B07Q43G4HQ/ref=ppx_yo_dt_b_asin_title_o00_s00?ie=UTF8&psc=1)

After unpacking the parts, separate the connectors, we'll need to establish and mark PIN 1 on each connector.

### 18 PIN Connector

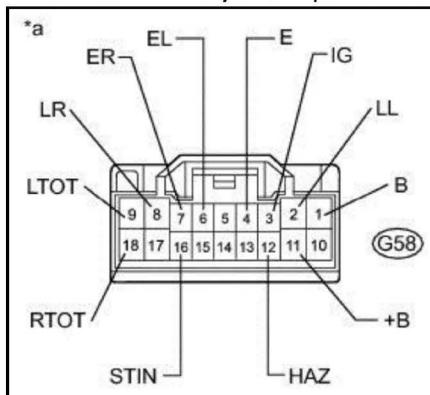


This is the back of the connector (Wire Side)



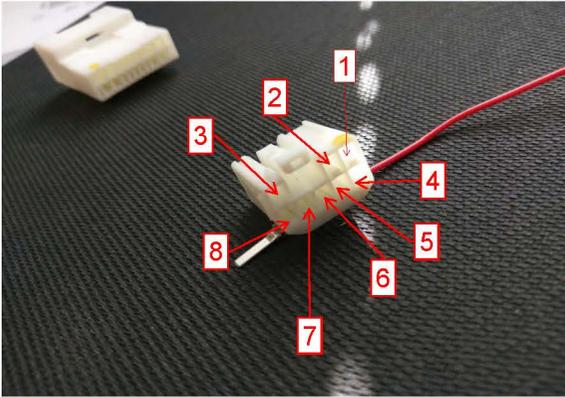
Connector front (GX460 Harness Side)

Looking at the back of the connector, with the raised rectangle up, as pictured, the top left slot is PIN 1. I marked with a yellow paint marker.

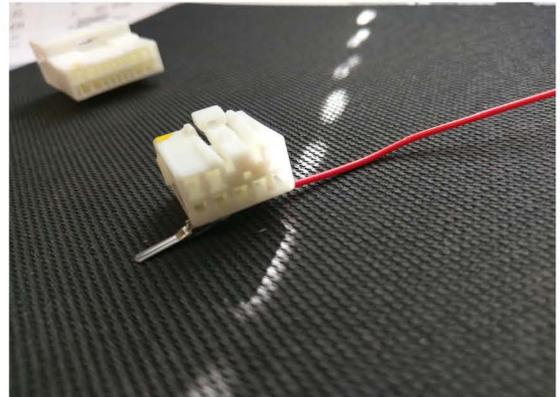


Pinout looking at the front (GX460 Harness Side)

## The 8 PIN Connector



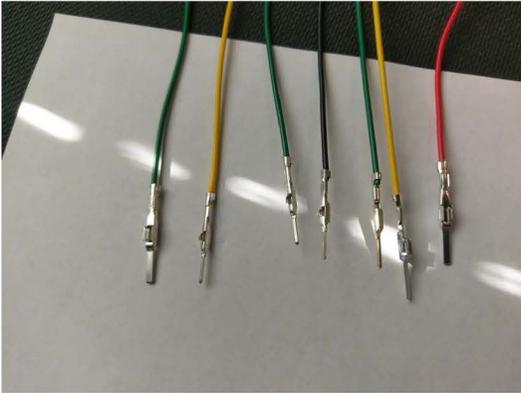
Again back of the connector (Wire Side)



Connector front (Flasher Relay Side)

We'll start with the 18 PIN Connector along with these wires that came with connectors attached. Note the bottom wire (RED) and the top wire (GREEN) have different types of connectors than the other five (5.) The single BLACK wire has the same connector as the five (5.)

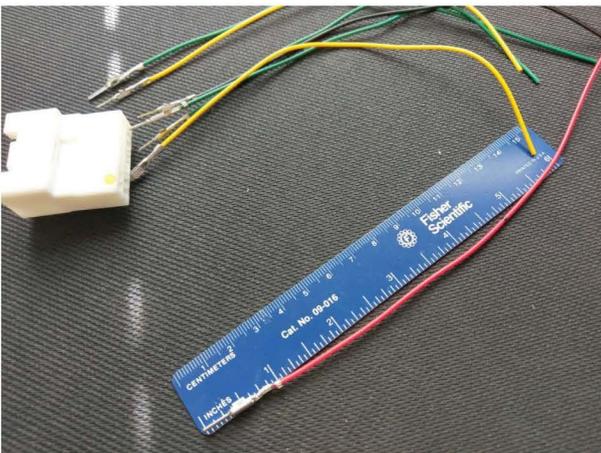




From RIGHT to LEFT  
 PIN 01 RED **Large**  
 PIN 02 YELLOW **Large**  
 PIN 03 GREEN **Small**  
 PIN 04 BLACK **Small**  
 PIN 05 BLANK  
 PIN 06 GREEN **Small**  
 PIN 07 YELLOW **Small**  
 PIN 08 GREEN **Large**  
 PIN 12 BLACK **Small**

I found it easier to keep the wires in the pinout configuration as used.

**WIRE TRIMMING**

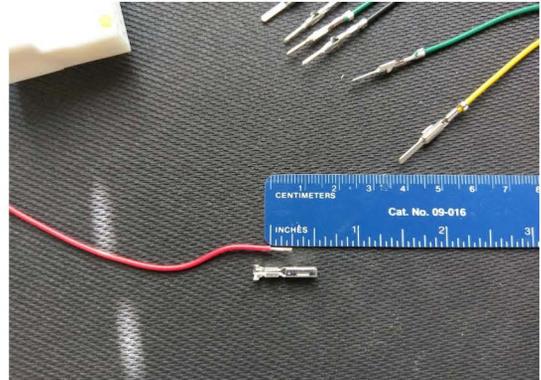
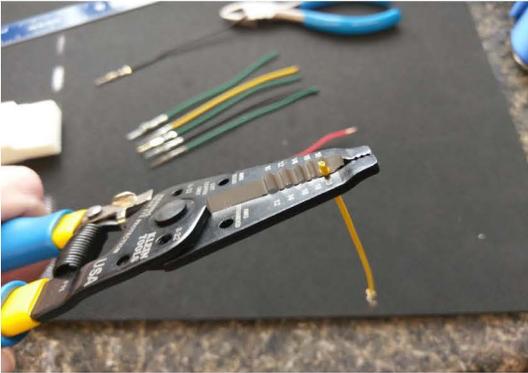


I trimmed each wire to 4.75 inches (4 3/4")



Maintaining pinout config (RYGBGYGB)

## WIRE STRIPPING



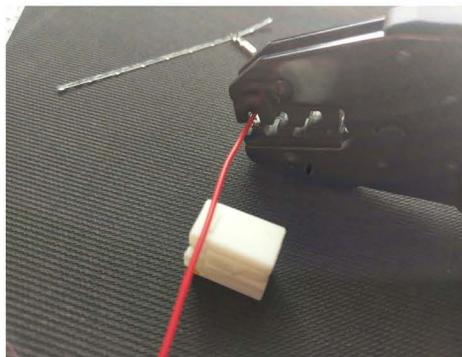
Trim the END of each wire about .275 inch (1/4")

## RELAY SIDE CONNECTORS



Wires and connectors in preparation for connector crimping

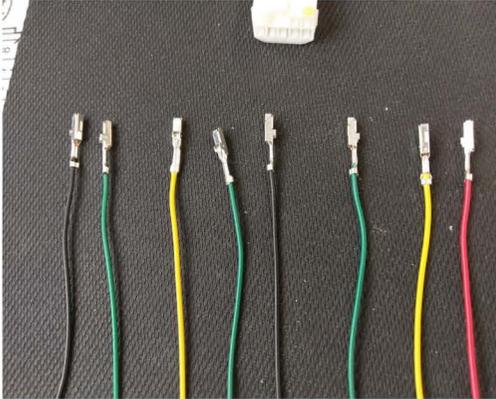
## RELAY SIDE CONNECTOR CRIMPING



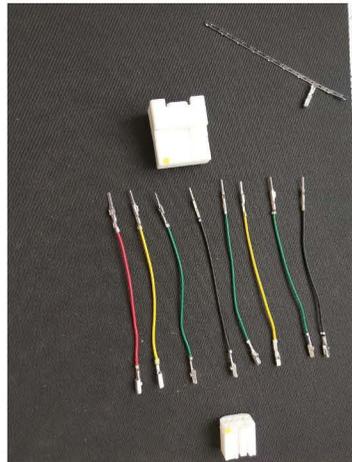
Carefully crimp each connector to a wire

Crimp tutorial: <https://youtu.be/NXg3koRHdTQ>

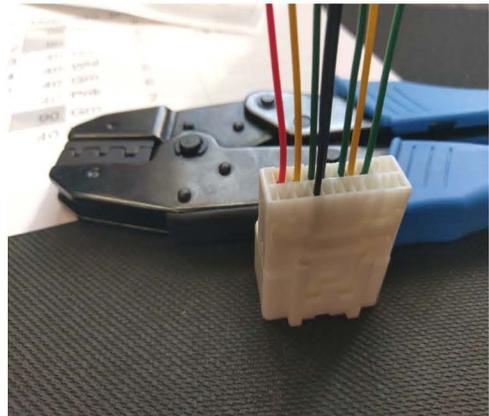
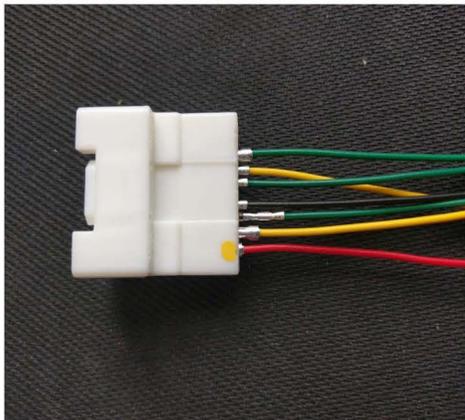
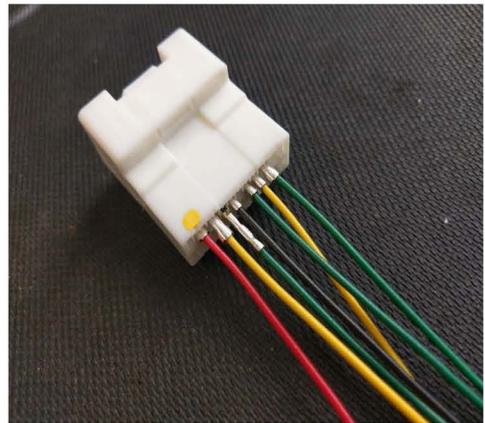
## CRIMPING CONTD.



Connectors crimped



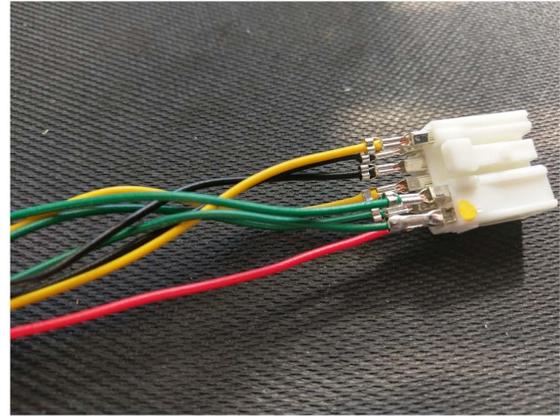
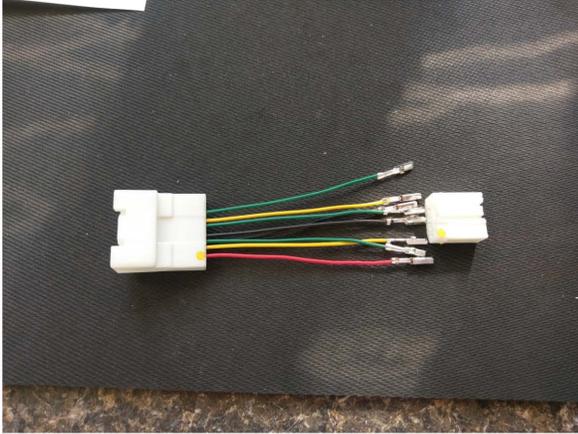
## 18 PIN CONNECTOR WIRING



Push PINS into the REAR of the Connector as depicted

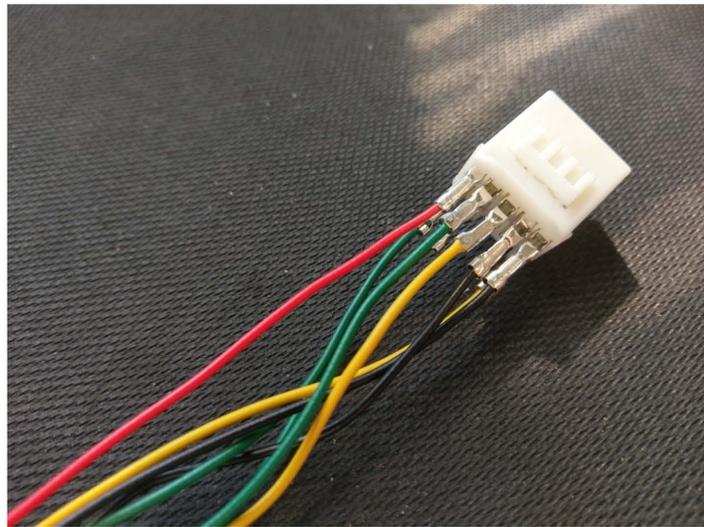
- |               |               |
|---------------|---------------|
| PIN 01 RED    | PIN 06 GREEN  |
| PIN 02 YELLOW | PIN 07 YELLOW |
| PIN 03 GREEN  | PIN 08 GREEN  |
| PIN 04 BLACK  | PIN 12 BLACK  |
| PIN 05 BLANK  |               |
| PIN 06 GREEN  |               |

## 8 PIN CONNECTOR WIRING



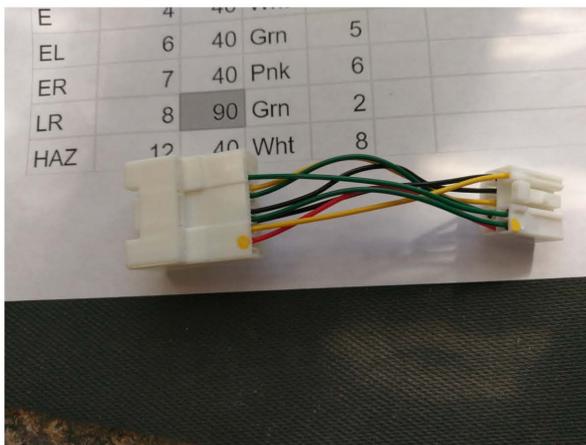
From the 18 PIN connector to the 8 PIN connector using the 18 Connector pinout

- 1 RED to PIN 4
- 2 YLW to PIN 3
- 3 GRN to PIN 1
- 4 BLK to PIN 7
- 6 GRN to PIN 5
- 7 YLW to PIN 6
- 8 GRN to PIN 2
- 12 BLK to PIN 8

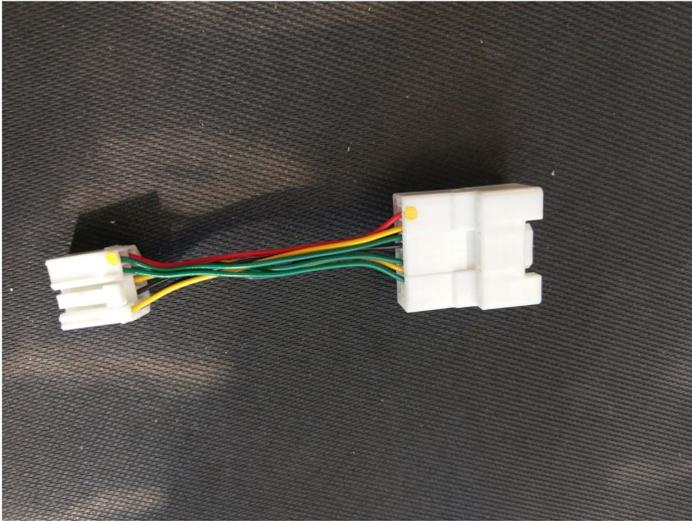


Double Check your work before pushing the connectors all the way in!

### Semi-finished product

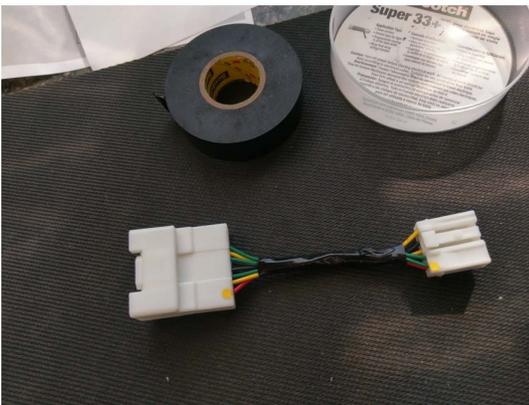


## WIRE



Straighten out the wires

## TAPE WIRE LOOM



Using electrical tape, loom the wires together

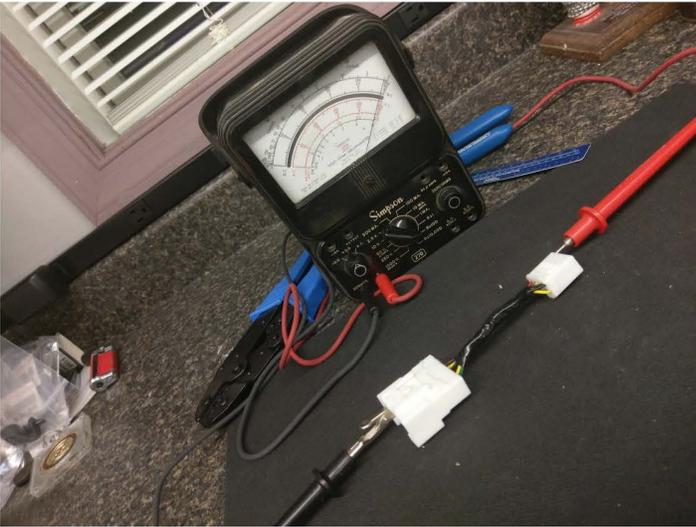
## CONNECTOR LOCKING



Push down on each connector lock, locking in the wire connectors

## DOUBLE CHECK YOUR WORK

Using a multimeter, check your work by ensuring the pinouts are correct on each connector.

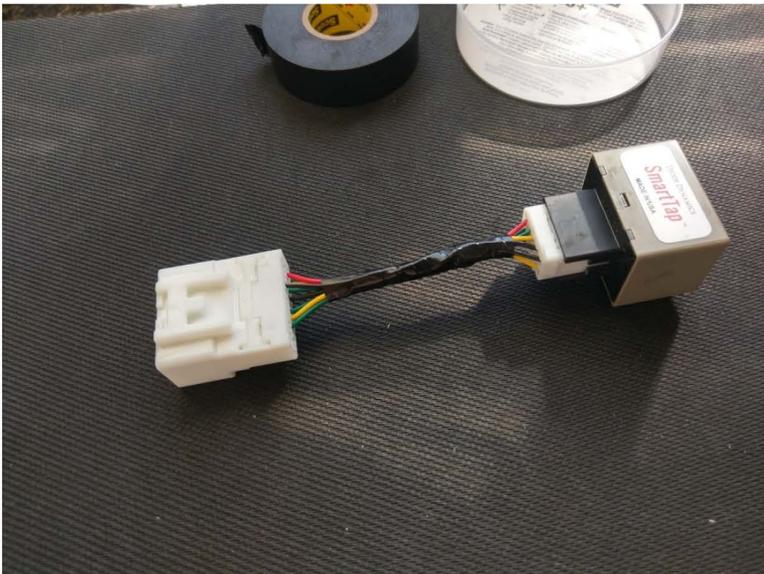


Or in my case, using a antique VOLT OHM meter

### **18P Connector      8P Connector**

PIN 1 RED to	PIN 4
PIN 2 YLW to	PIN 3
PIN 3 GRN to	PIN 1
PIN 4 BLK to	PIN 7
PIN 6 GRN to	PIN 5
PIN 7 YLW to	PIN 6
PIN 8 GRN to	PIN 2
PIN 12 BLK to	PIN 8

## FINISHED PRODUCT



Attach the flasher relay and it's ready for the GX