

Fitting Healtech X TRE to Suzuki M109R

Steps:

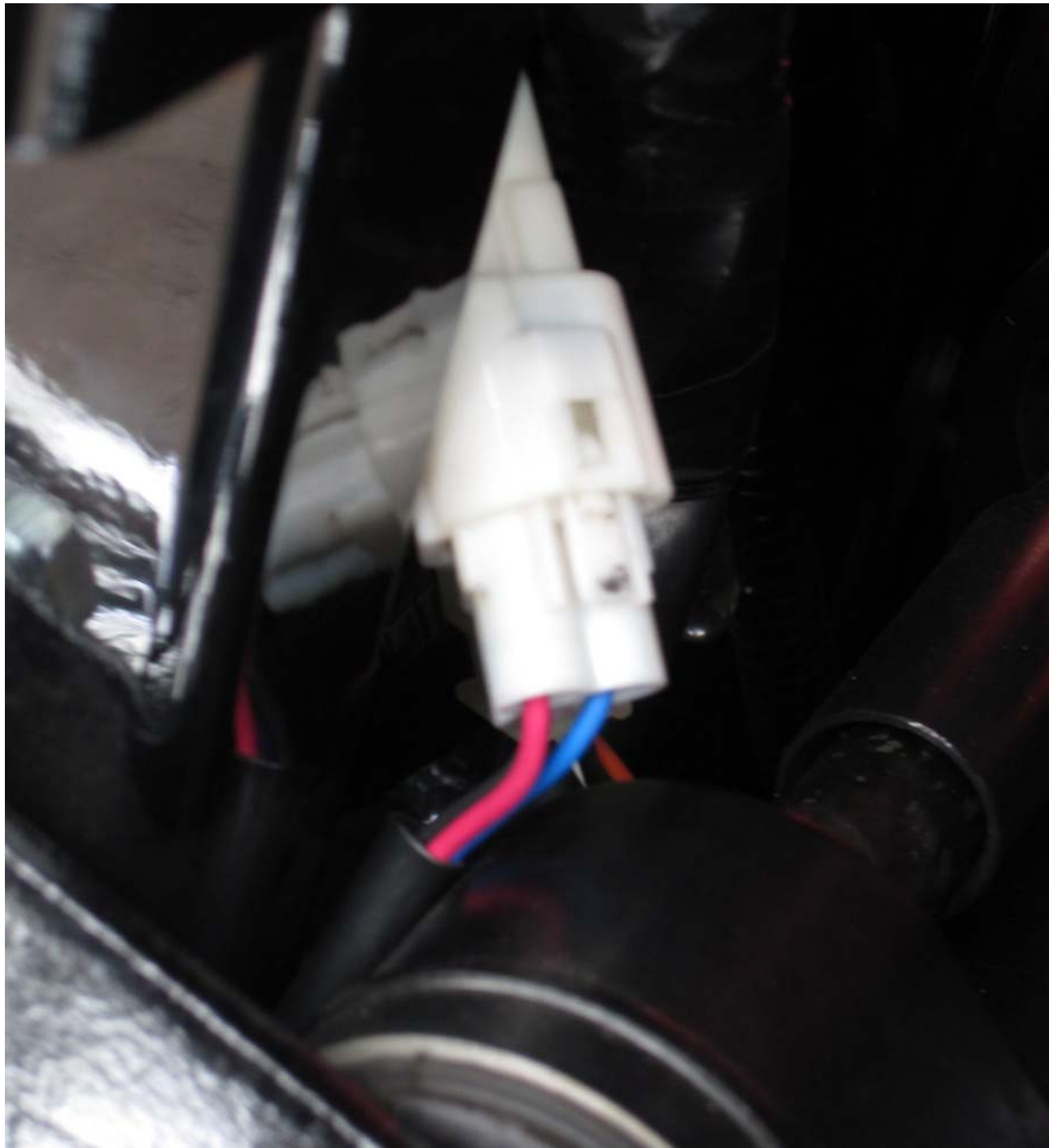
1. Remove seat
2. Remove battery cover
3. With 4mm hex key remove the RHS side cover with the M109R badge. Rubber clip under tank edge, and two pins into rubber sockets. Pull cover outwards to release.
4. Repeat for LHS side cover.
5. Locate Gear position sensor plug on RHS. White plug three pins. This is where the X-TRE will plug in. Mount X-TRE unit to 3mm x 30mm flat steel strap above the white plug using the self adhesive touch tape supplied.
6. Route the additional three wires behind the frame and across the bike forward of the three black relays. Exit the wires on the LHS of the bike.
7. On the LHS of the bike and in line with the battery cover clips you will see a large loom of wires feeding to two large multi pin plugs. These are the plugs to the ECM unit. Remove these two plugs and feed them over the top of the side steel bracket to allow access to the wiring loom. This is where the electrical connections will be done.
8. Follow the loom back from the rear of the lower black plug. Remove the tape and the plastic sheathing covering the wires. The sheathing is split and self adhesive, Simply find where it joins and peel apart.
9. Locate the black wire with dark green trace. This is at Pin 6 on the top row. 6th wire from right to left looking at the rear of the plug. This is the wire to be cut and rejoined into the X-TRE loom.
10. Cut the B/G wire about 40mm away from the connector.
11. Join the Black / Green wire from the X-TRE loom to the Black / Green wire at the rear of the ECM plug using the butt connectors supplied, or a soldered joint if preferred.
12. Join the loom end of the cut black/green wire to the white/black wire from the X-TRE loom. Again using the supplied butt connector or a soldered joint. If a soldered joint is used, ensure that the joint is properly taped or shrink tubing is used to cover the join.
13. Locate the orange wire with green stripe. This is at pin 17 which is on the top row, far left side of the plug when looking from the rear of the plug. We will tap into this wire to power the X-TRE.

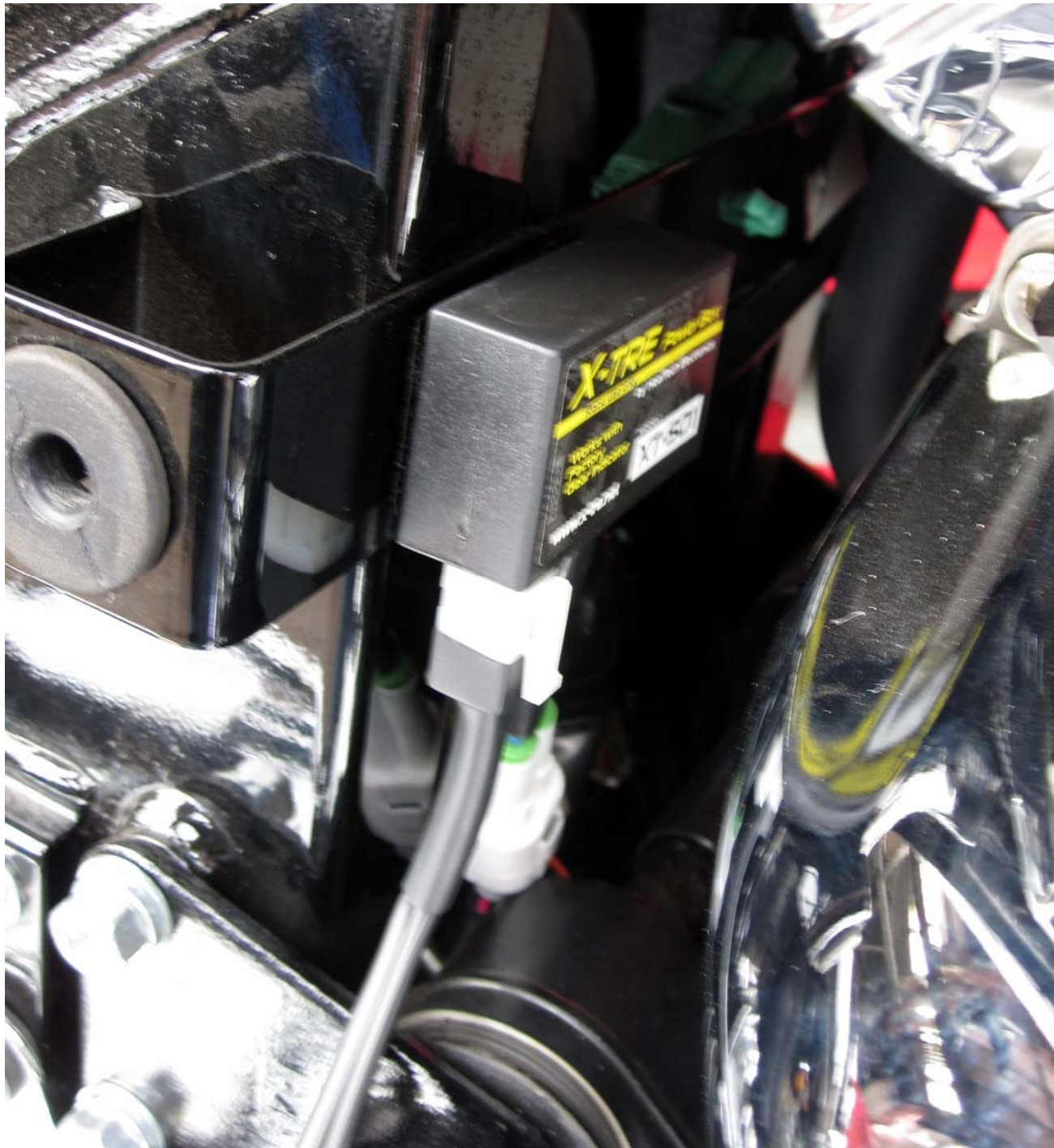
14. Using the supplied red coloured wire tap connector, connect the red wire from the X-TRE loom to this wire approximately 40-50mm back from the plug. Use a soldered and well taped connection if preferred.
15. Regroup the wiring and refit the factory sheath to the wiring loom. Replace the black electrical tape removed from the end of the sheathing.
16. Refit the side covers, battery cover and seat.
17. Ready to test.

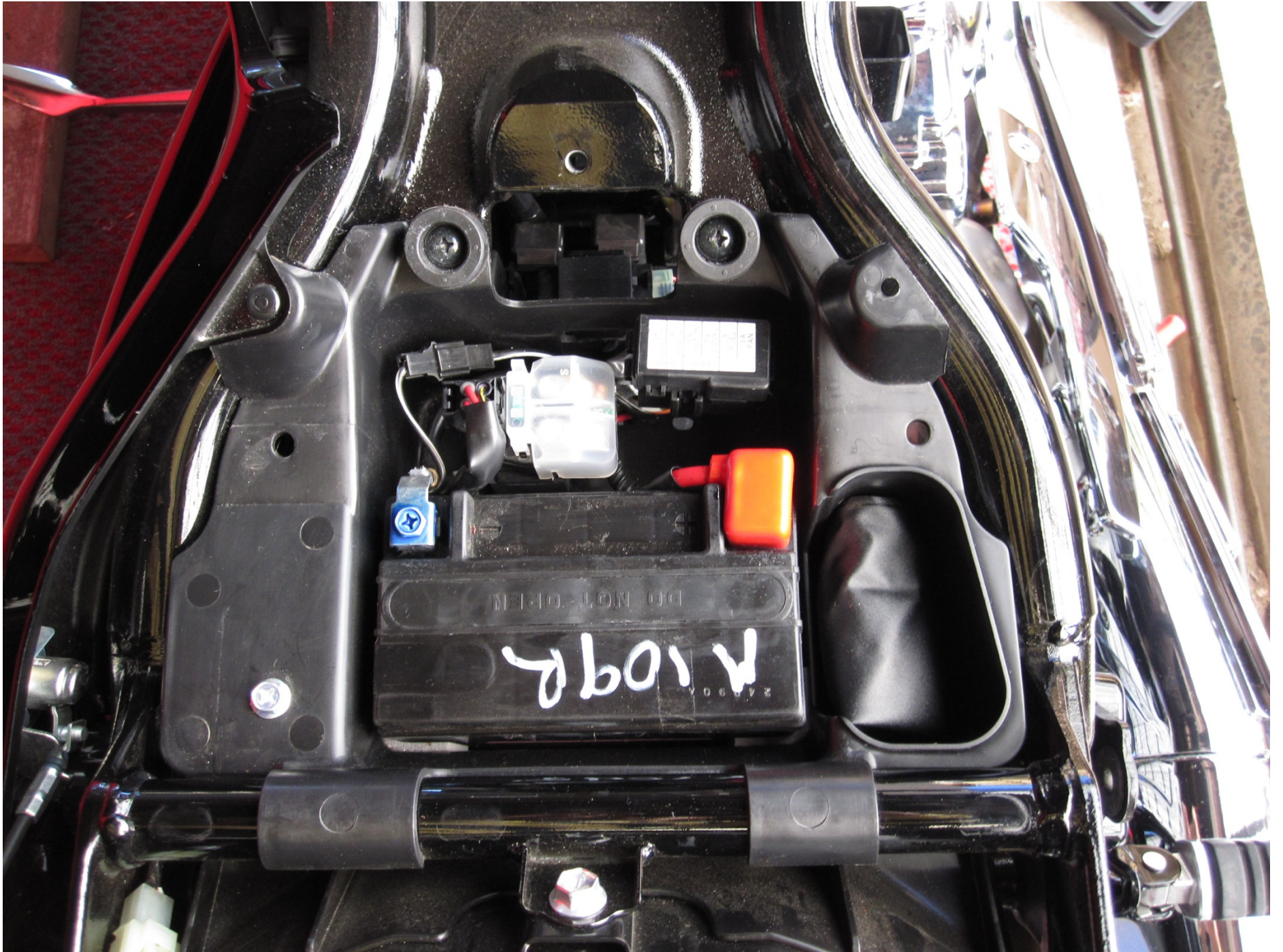
Images:

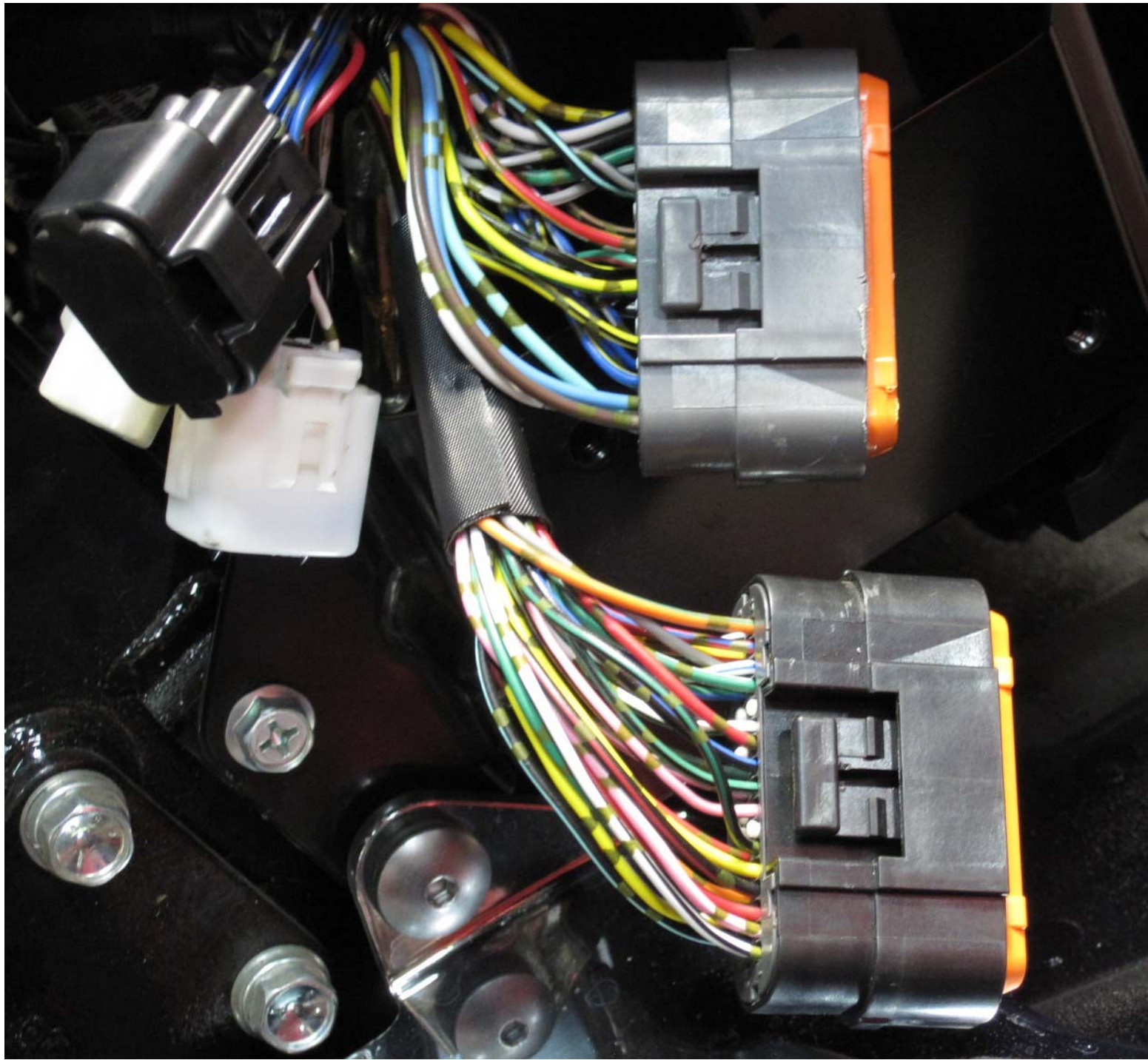


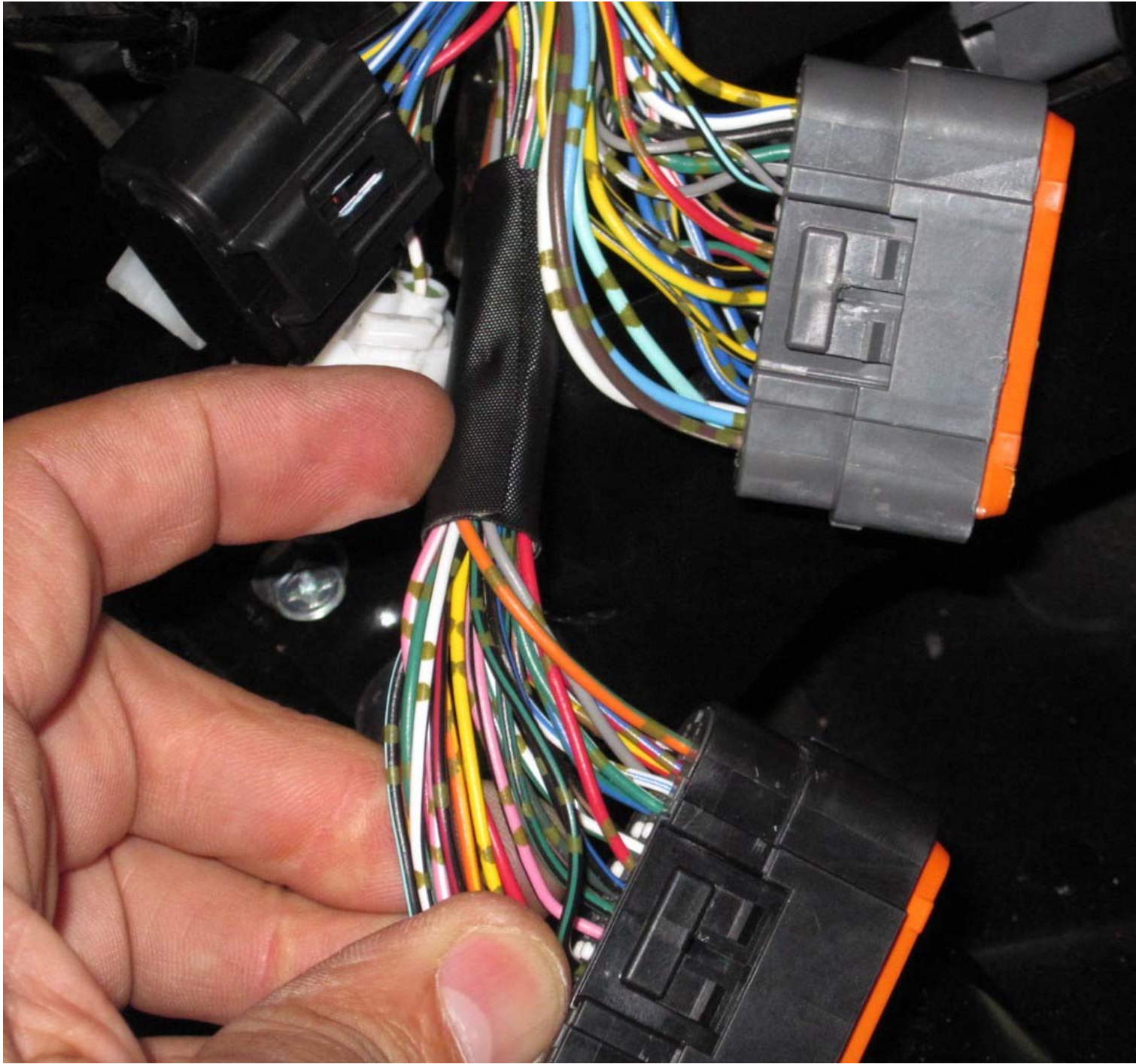


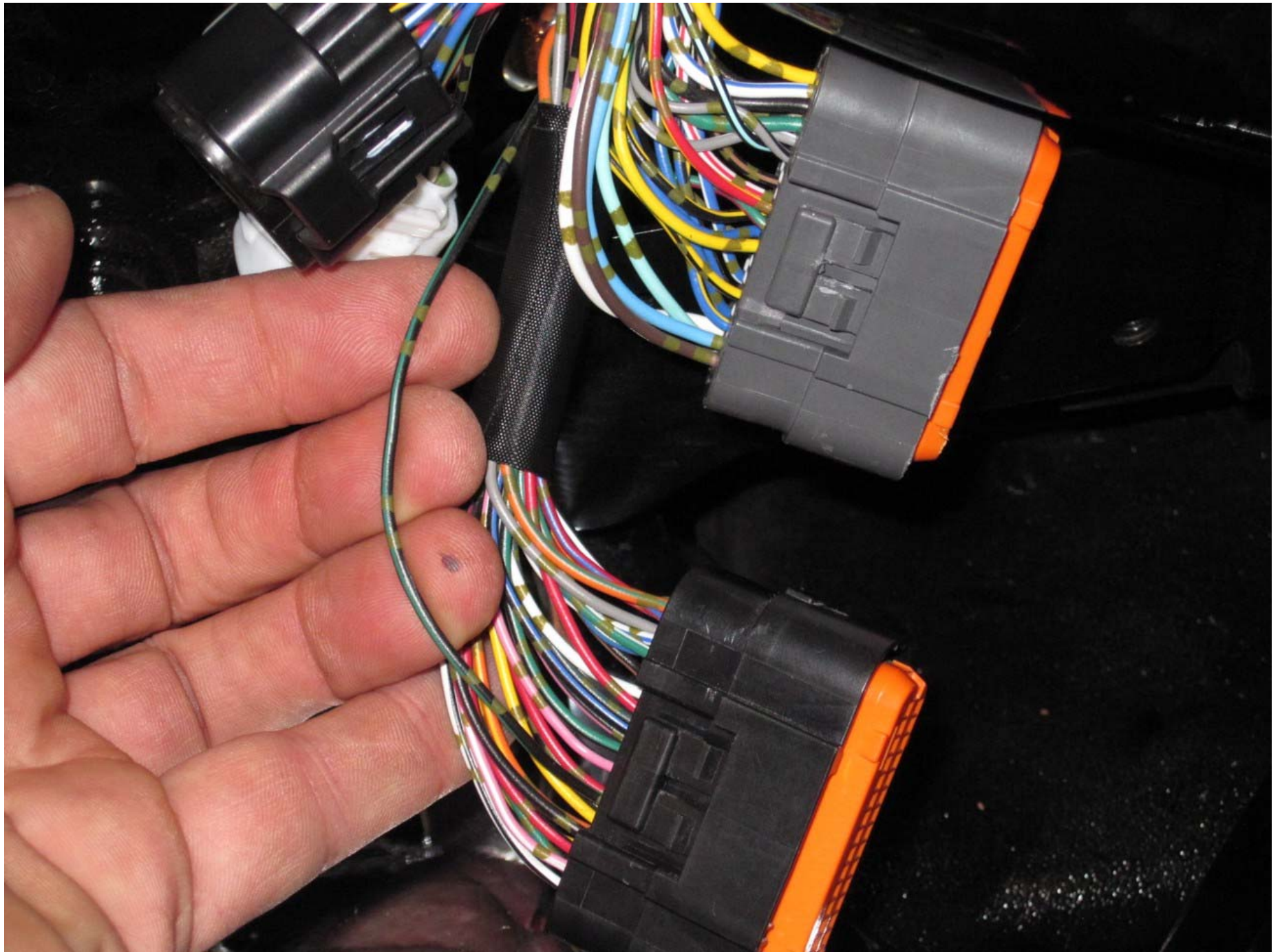


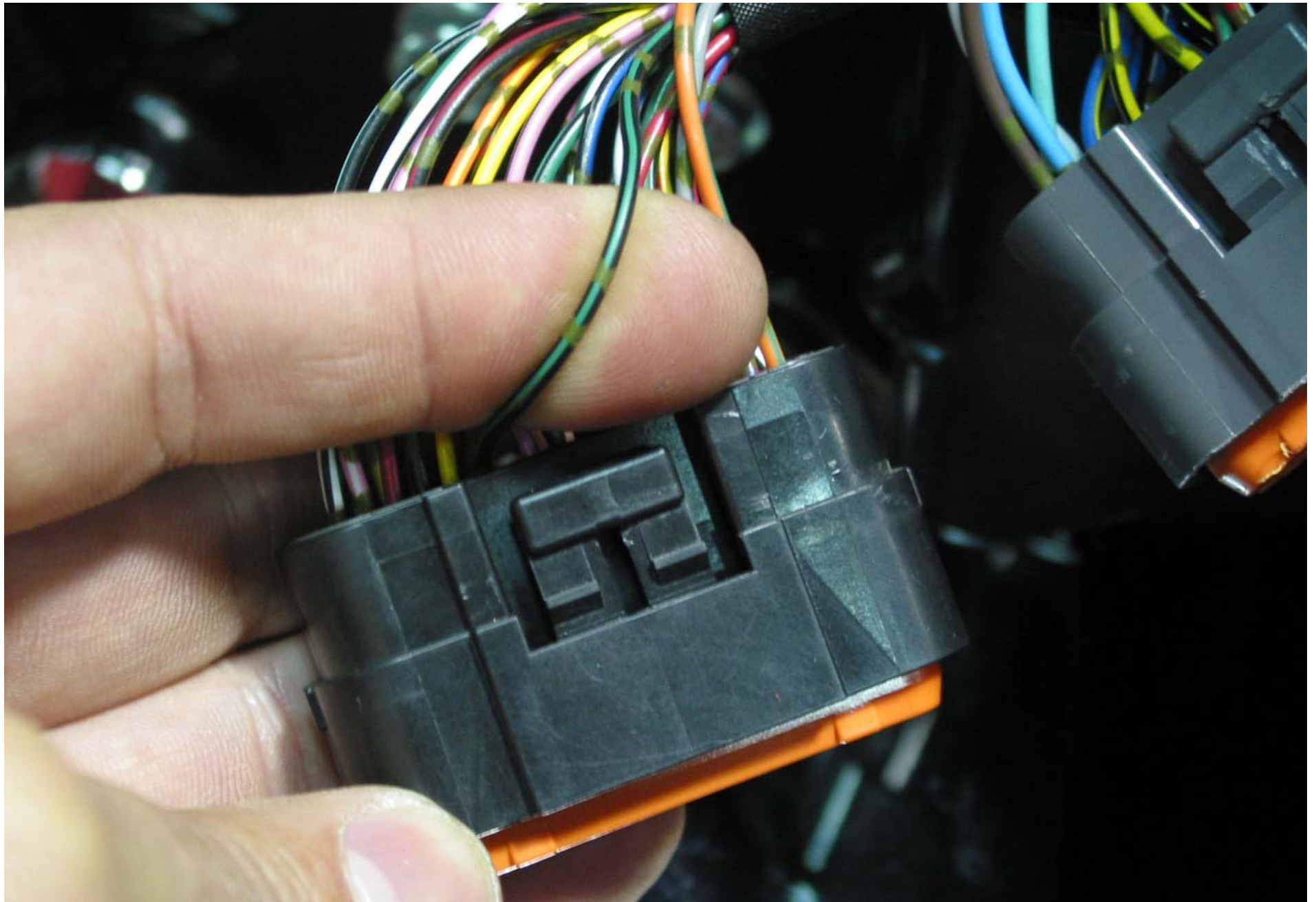


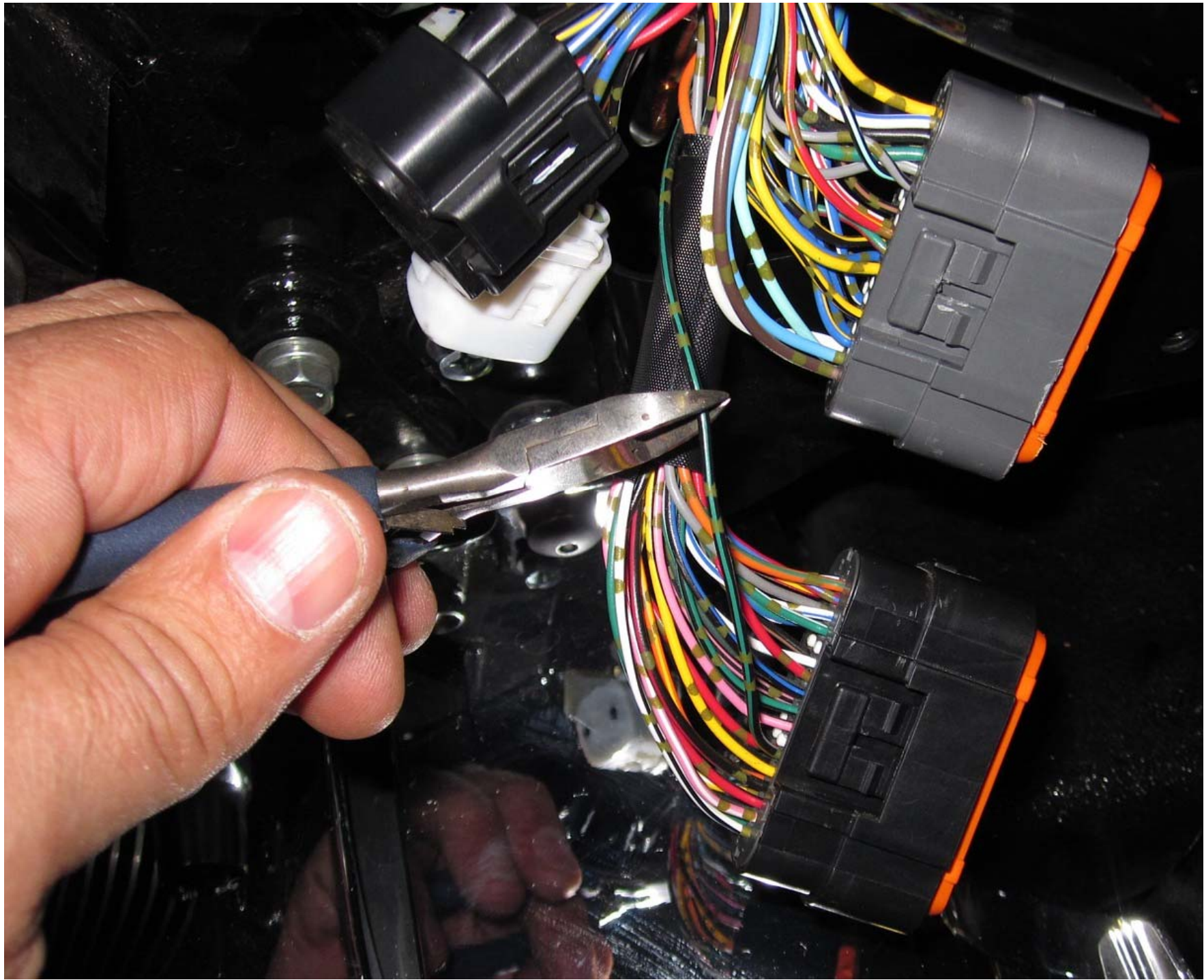


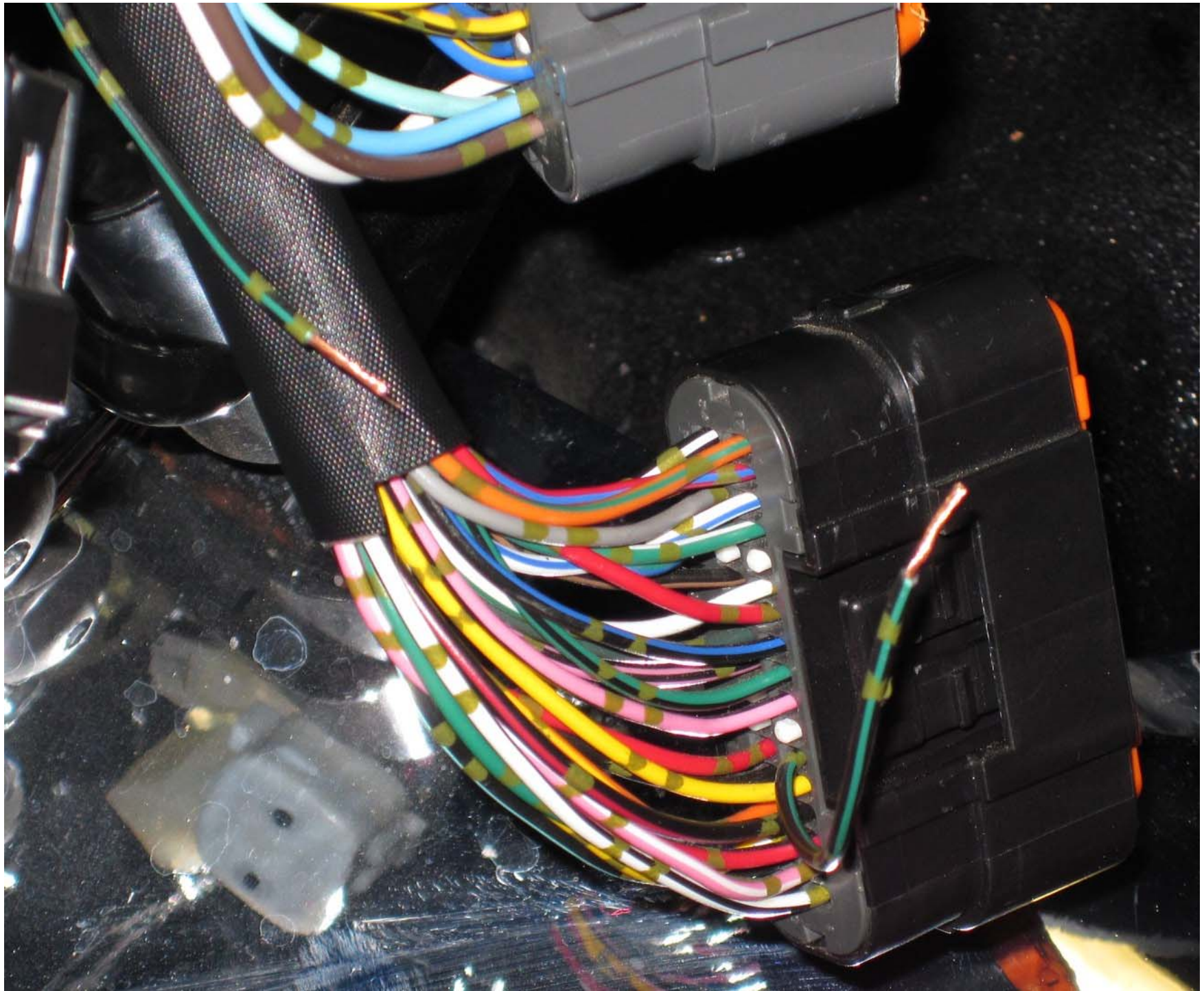


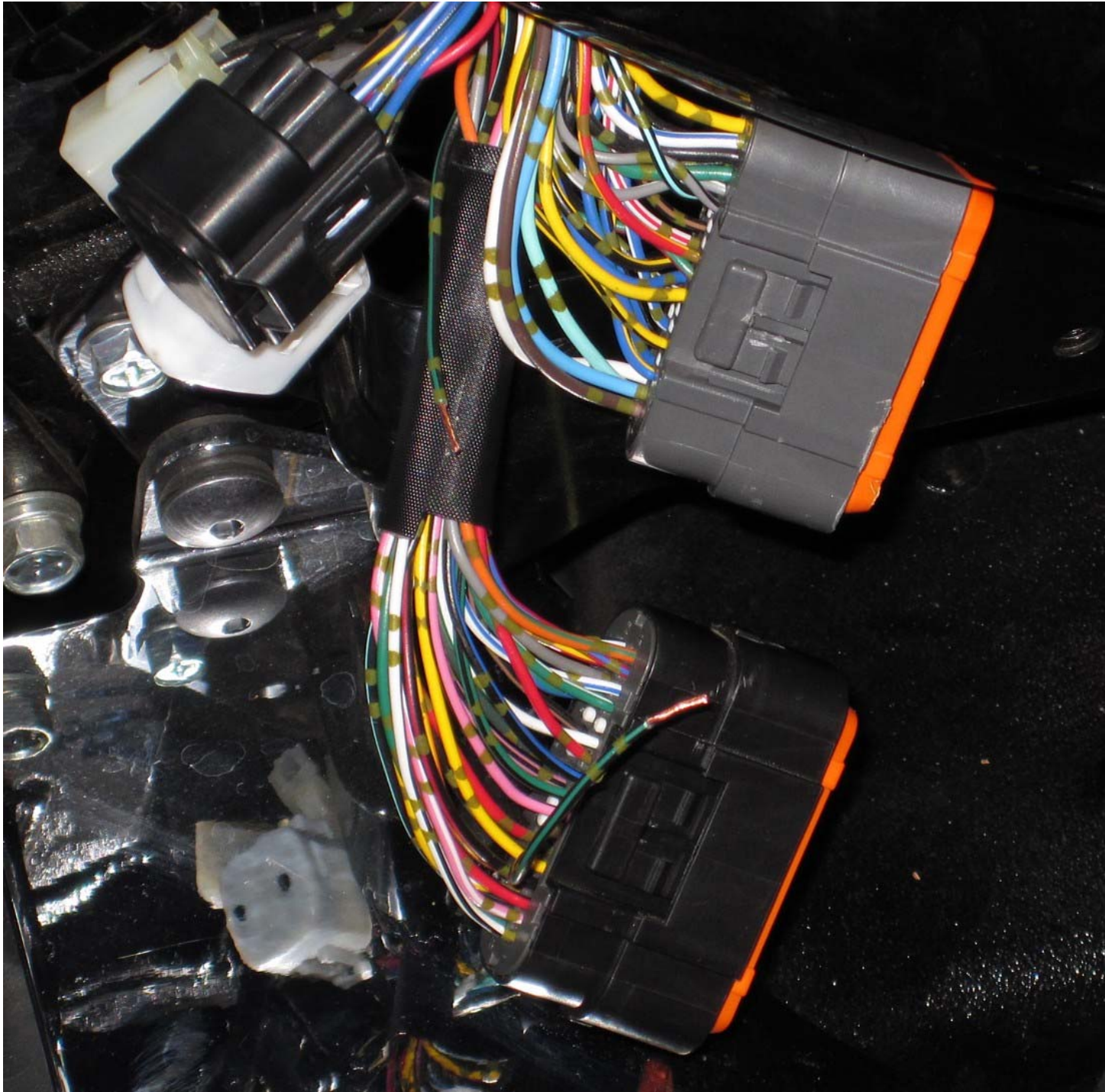












Black / Dark Green stripe wire

Orange / Green Stripe
12v DC

