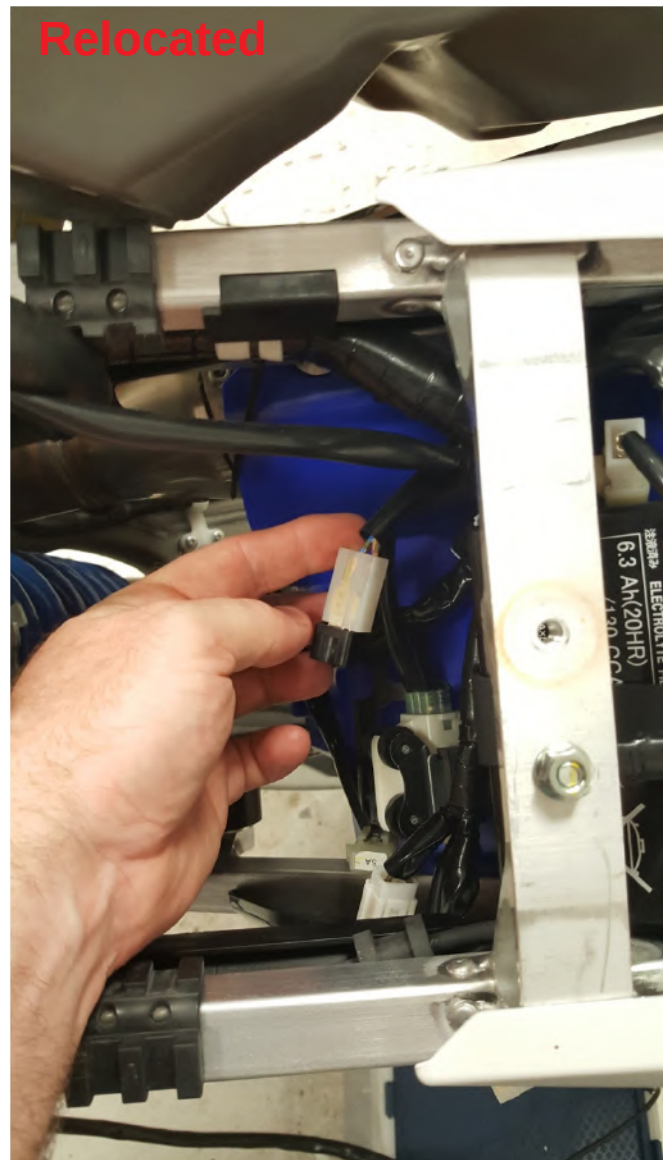
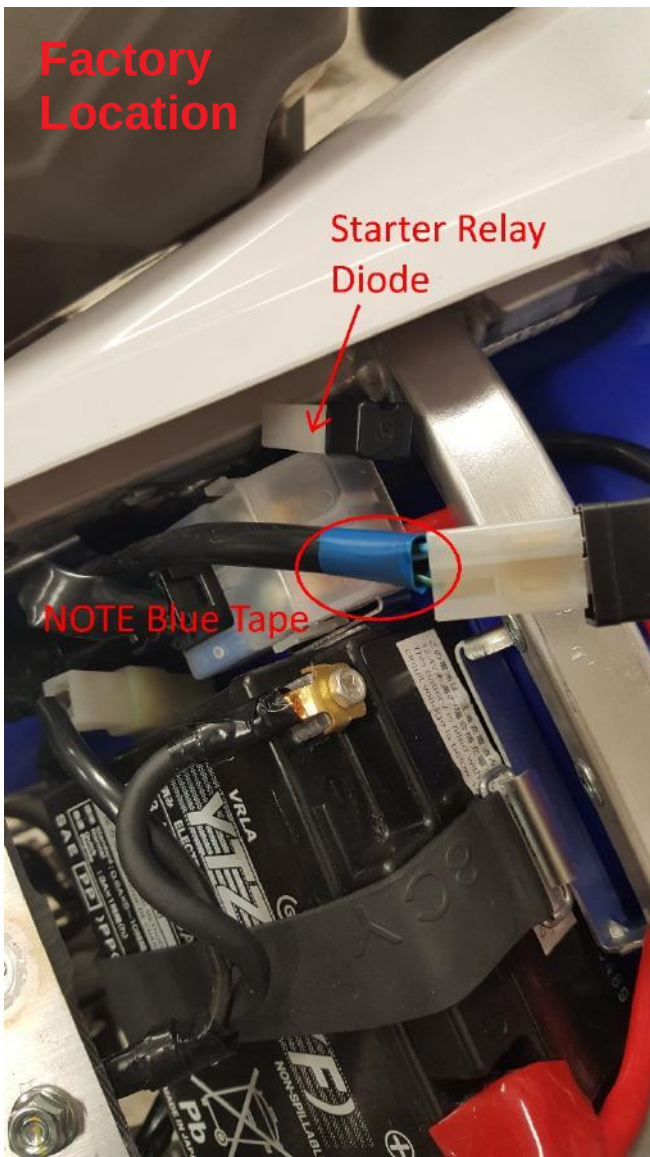




2014 – 2016 Yamaha 450FX Pinout Change – ECU only Install

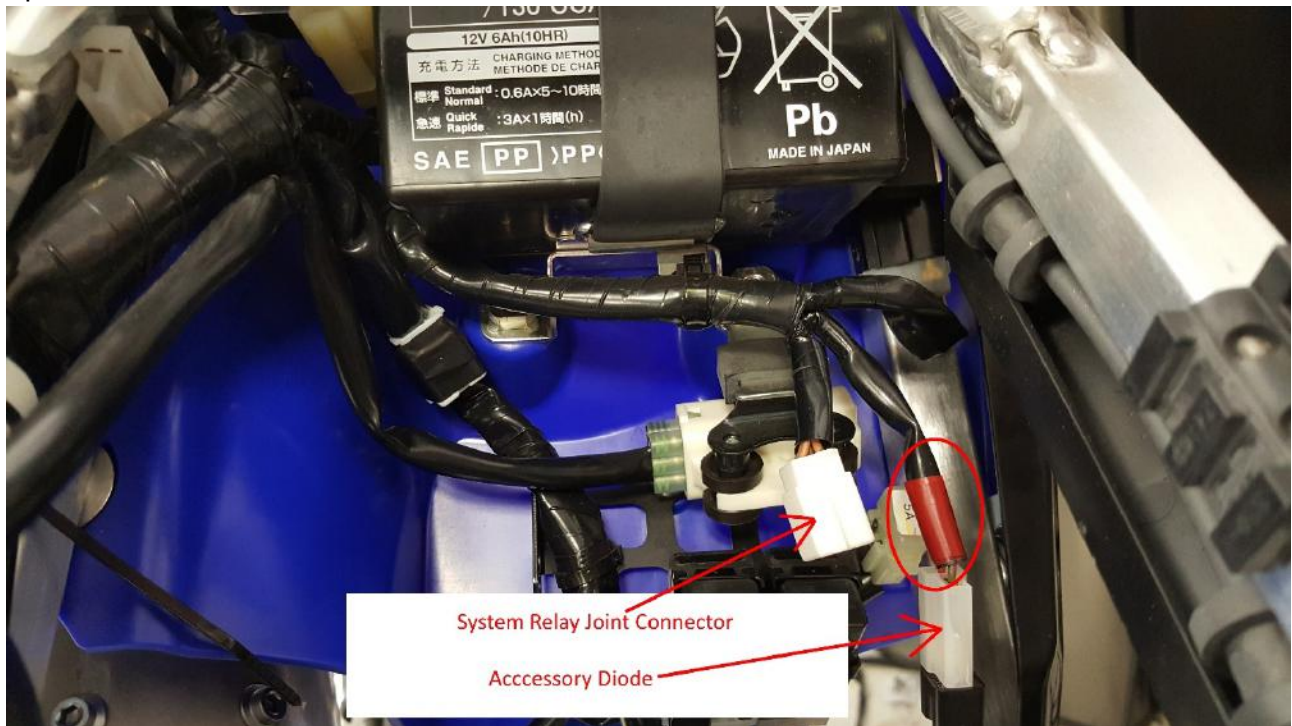
On 2014 - 2016 Yamaha 450 FX models, five wires must be relocated on the factory wire harness. If the RAZE Motorsports ECU is plugged in and these steps are not completed a No Start/Stop Condition will occur. **Please note: take time to note and/or mark the diodes mentioned on each connector step. If you mix their locations up a no start will occur.**

1. Remove Seat & Disconnect the Battery Ground cable from Battery.
2. Disconnect Yamaha Factory ECU connector located under the gas tank – please refer to Yamaha Service manual for detailed disassembly instructions.
3. Locate the Starter Diode on the Right Side of Battery (Kick Start Side) next to Starter Solenoid. Please note there are 2 diodes the one with Blue Tape will be used in a later step. Relocate the Starter Diode to below the battery box. (Wire Colors: Blue/White + Brown & Brown Green)





4. Next Locate the Accessory Diode and System Relay Joint Connector which can be found Left Side of bike (Gear Shift Side) below battery. System Relay Joint Connector has Four Brown Wires in a 6 Positions White Connector. The Accessory Diode is marked with RED Tape (Wire Colors: Red/Blue + Red).



5. Disassemble System Relay Joint Connector by remove the Plastic dust cover using a small screw driver to release locking tabs. With Dust cover removed lift the jumper block from the terminals using small screw driver.





6. Cut the Jumper Block from Step 5 as shown.

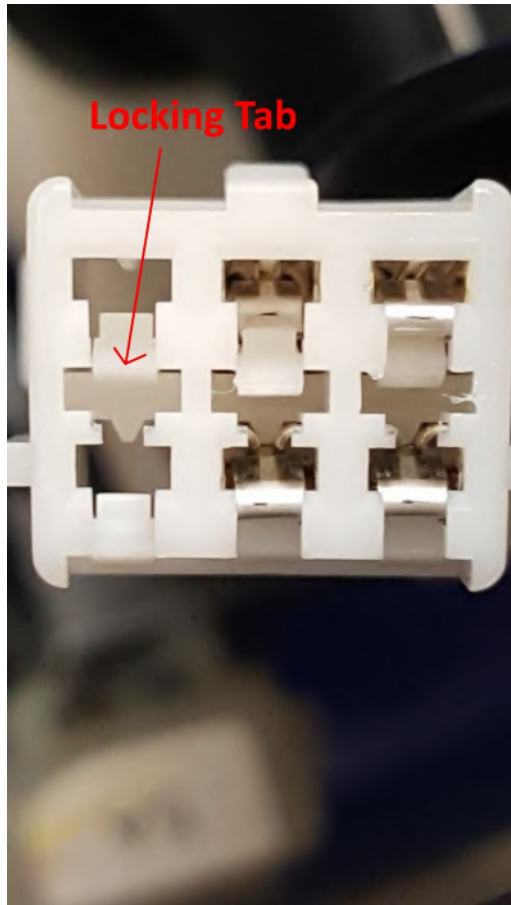


7. System relay Joint Connector Requires 1 wire to be relocated within its connector. Move the Brown/Green Wire as shown. To identify which wire to relocate use a volt-ohm meter to locate the correct Brown/Green wire on the Main Relay (shown with Red Tape)



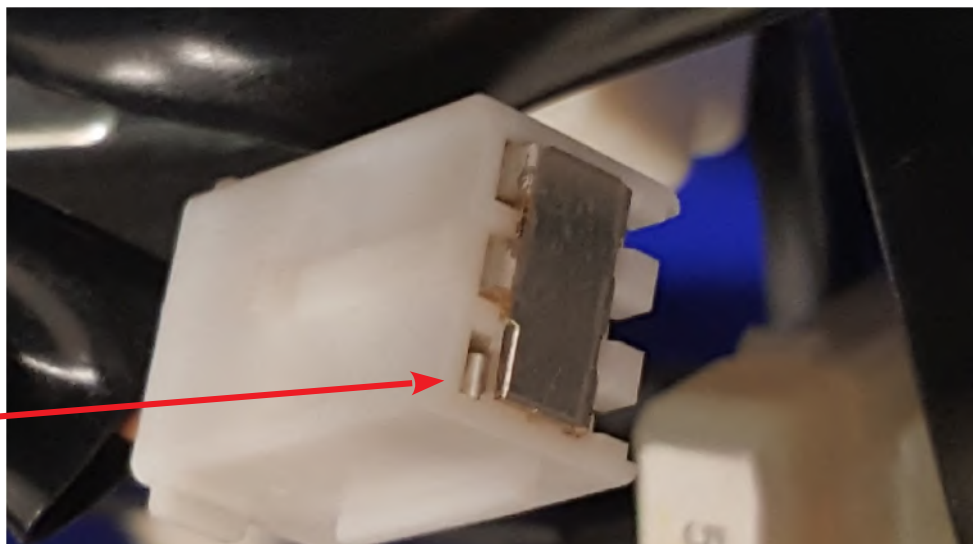


Using a small pick tool release the locking tab from the terminal and gently pull the wire.



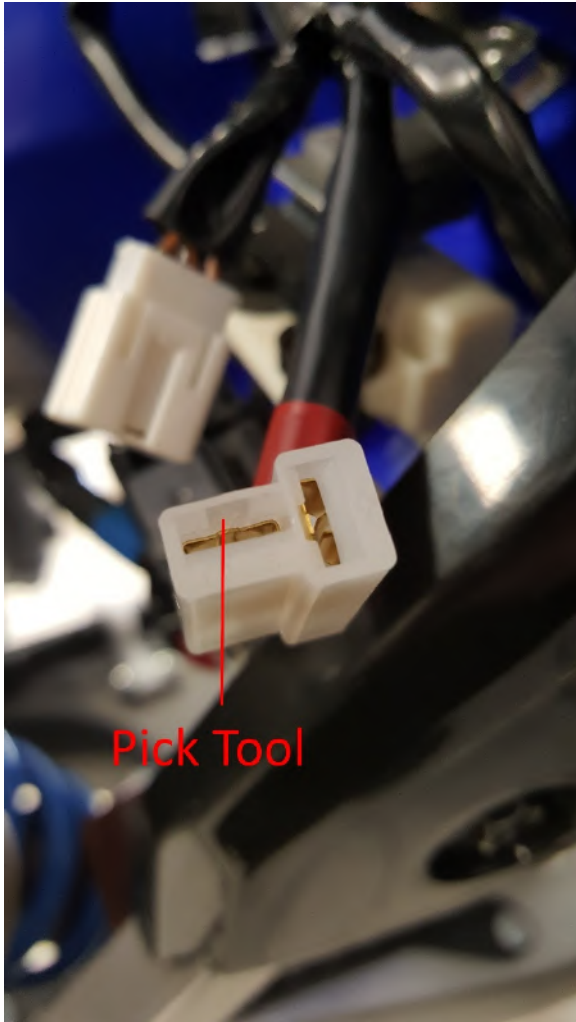
8. Replace the Jumper Block and note the wire relocated no longer has a connection to the Jumper Block cut in Step 5. Recover connector with OEM cap.

Relocated



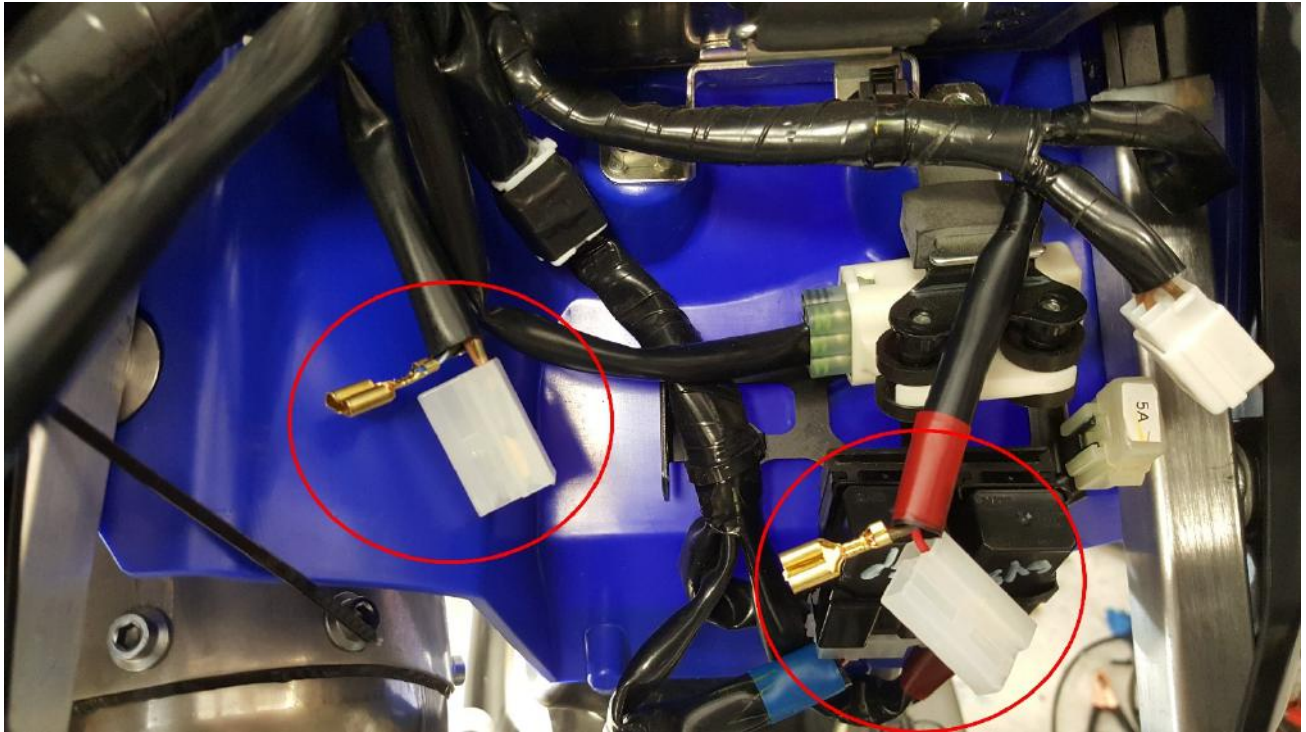


9. The Accessory Diode requires the RED/Blue wire to be removed from the connector.



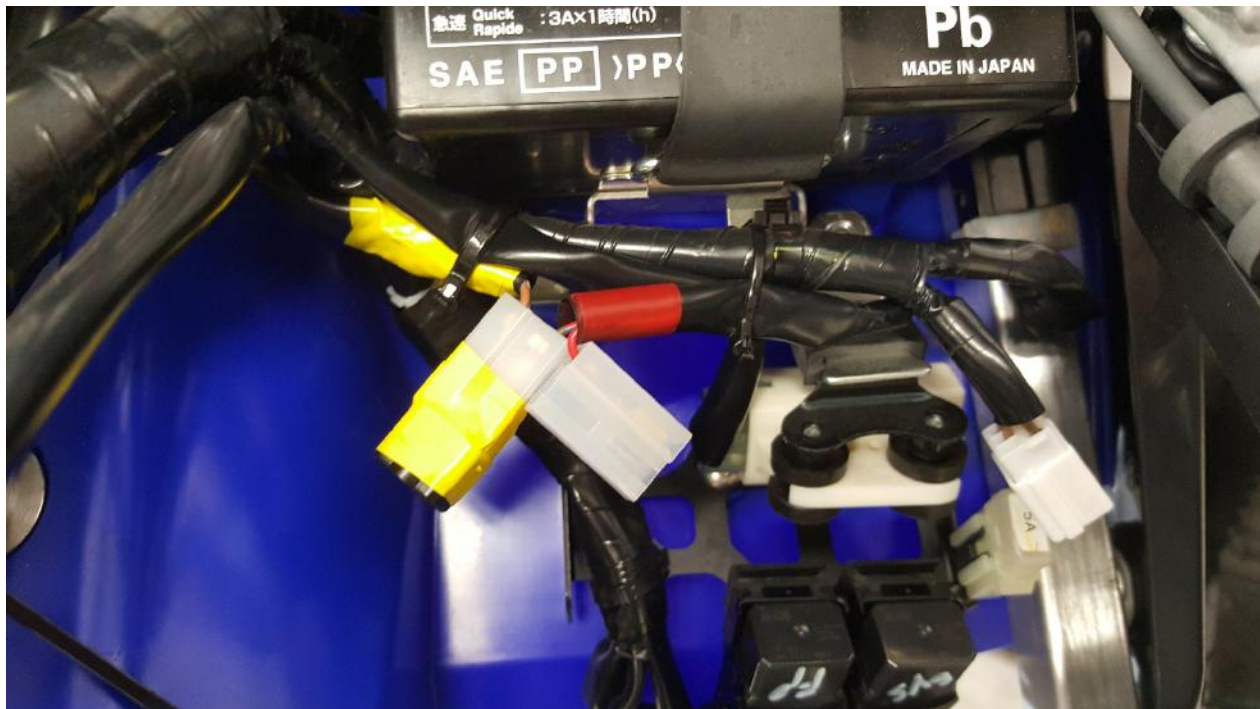


10. The Starter Diode relocated in Step 3 requires the BLUE/WHITE wire to be removed using the same pick tool method in Step 9.
Using Electrical Tape - Tape the BLUE/WHITE wire back as show below (Yellow tape used).





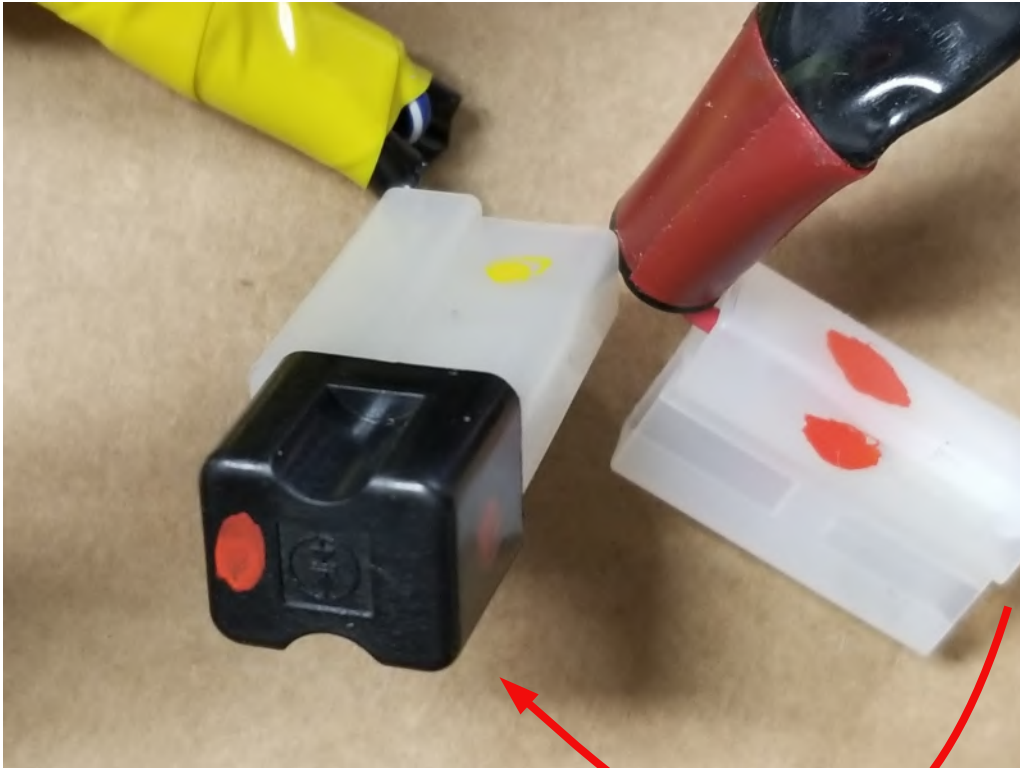
11. Insert the RED/BBLUE wire from Accessory Diode into Starter Diode Connector. Using the Diode from the **Accessory Diode Connector**, rewrap with electrical tape as the factory installation. Tie back wires using wire ties or tape – do not let wires free hang. Note the **Starter Diode Connector** does not require the diode to be installed. Store unused diode for later use if returning to Stock.



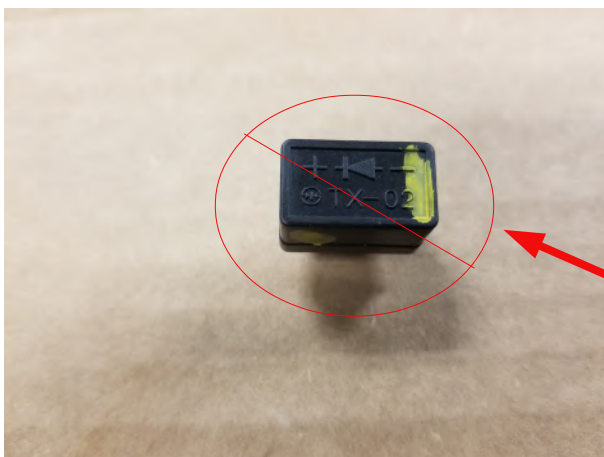


11. Continued from previous page:

The Accessory Diode needs to be relocated to Starter Diode Connector position as shown below. **Note the 'larger' Starter Diode is not used.**



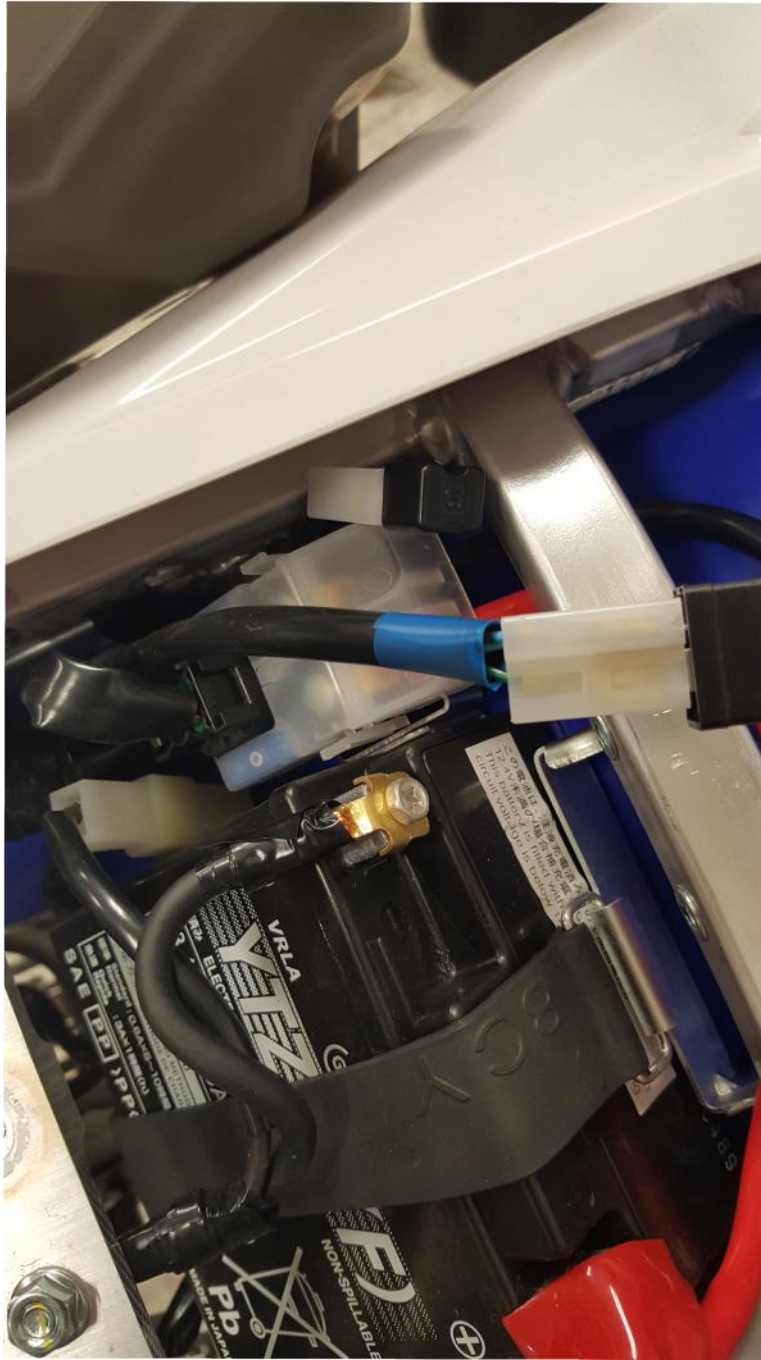
Accessory Diode Relocated



Starter Diode NOT Used

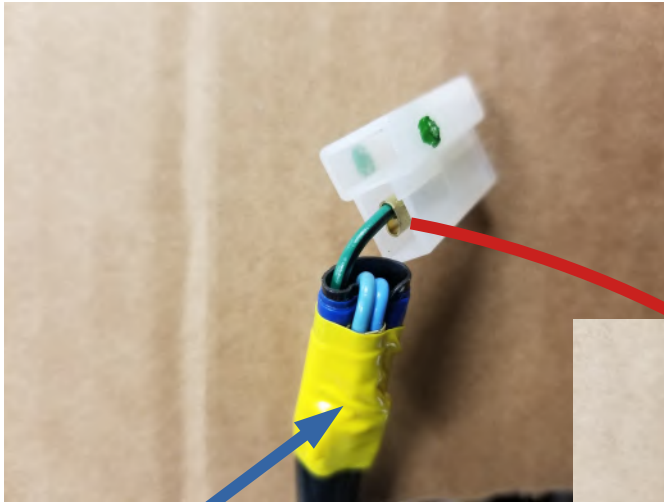


12. Locate the Diode and Connector with Blue Tape (Wire Colors: Green/Black + 2 Light Blue) from Step #3. Remove Blue wires from connector using pick tool. Using Electrical Tape -Tape the BLUE wires back as show below (Yellow tape used).





13. The Green/Black wire must be relocated to the other wire position that is now open. Using the pick tool release the Green/Black wire and move it to the Light Blue wire position. Insert supplied RAZE Wire into connector as shown..



**Light Blue Wires
Taped Back**

Move Green/Black wire to
Light Blue wire position.

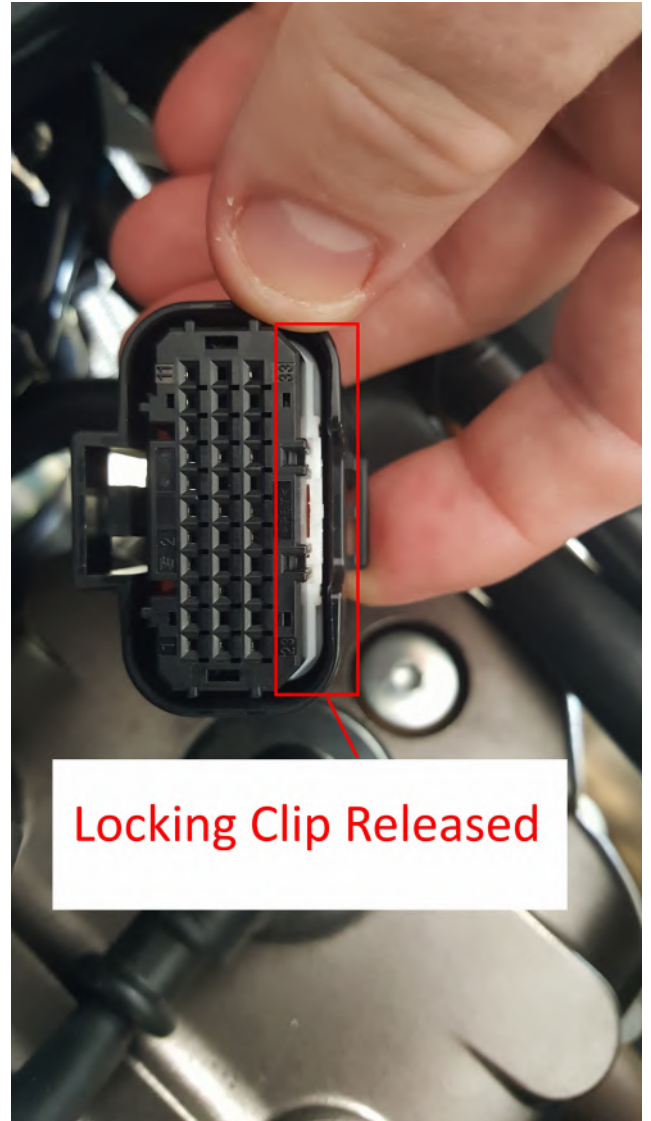


Supplied wire inserted
into connector.





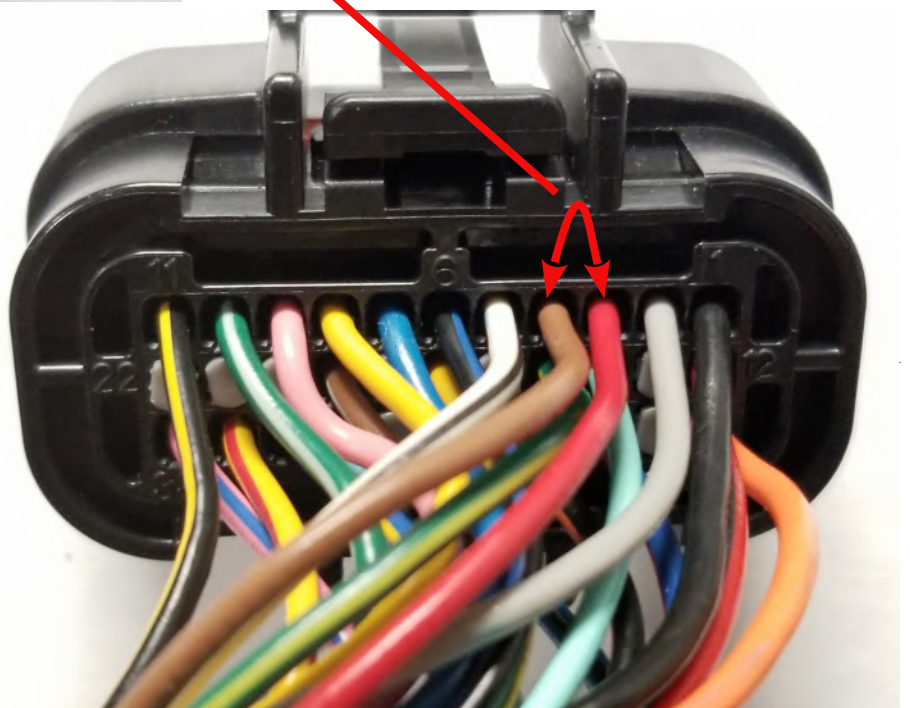
14. Locate ECU connector. Using Pick Tool release white locking clip as shown.





15. The Wire side of the ECU connector is numbered for wire positions. Locate Wires #3 - Brown & #4 - Red. With the Locking Clip Released Gently pull on one wire at a time to remove from connector. Note there will be some small amount of force required to release each wire. It is very important that the White Locking Clip be at its FULL release position. Once both wires are removed install the #3 wire into the #4 position. Install the #4 wire into the #3 position. Note Care Must be taken when ECU Locking clip has been released. Do not excessively twist or pull ECU connector

16. Ensure the #3 wire and #4 wire are full seated as show below. Close the Locking Clip by using the pick tool to return it to the Locked position.



Wires #3 and #4 reversed.



17. Using the Supplied RAZE Wire from Step #13. Connect RAZE Wire to Pin #11 of ECU. Tape or shrink wrap wire.



18.Recover harness and secure with tie wraps. Connect RAZE Ecu using supplied mounting bracket then Reconnect Battery.