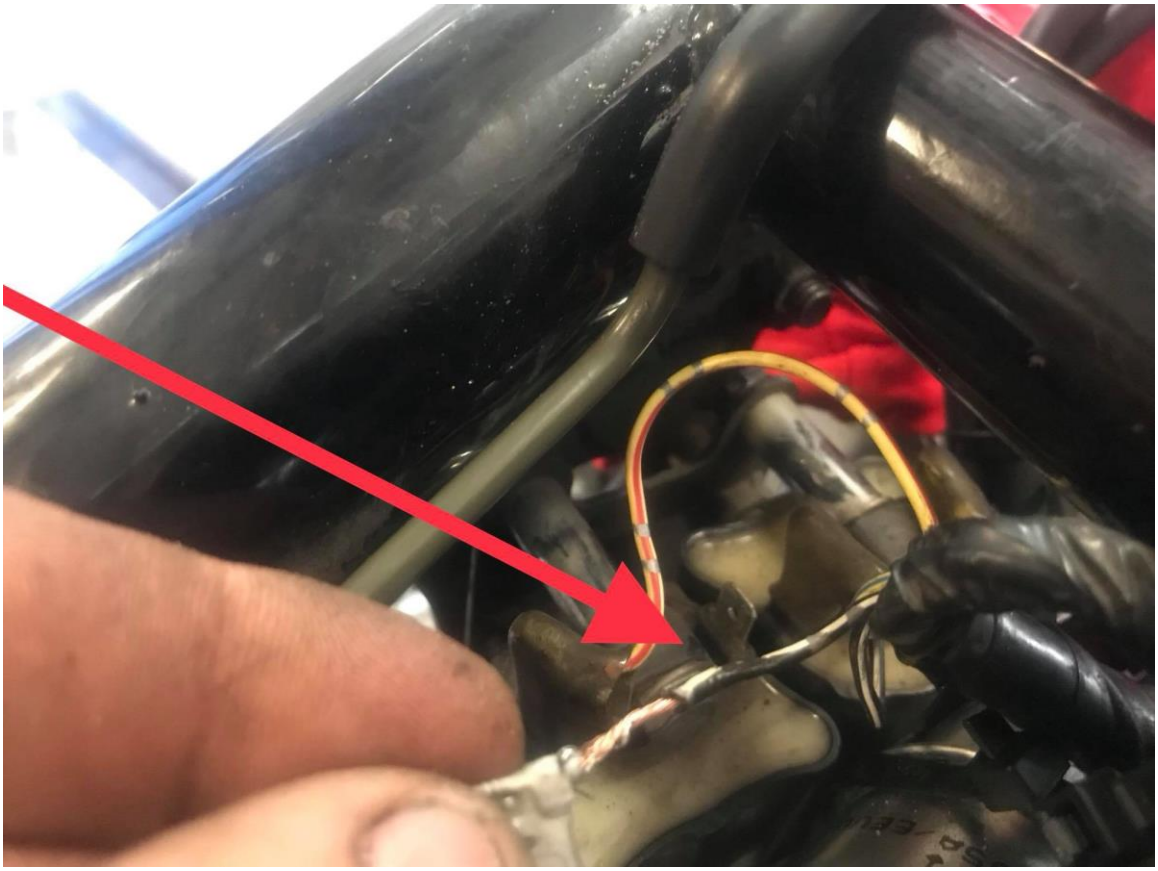
Wiring the Dan-Marc Electronic Fuel Shut Off
By Wood Butcher

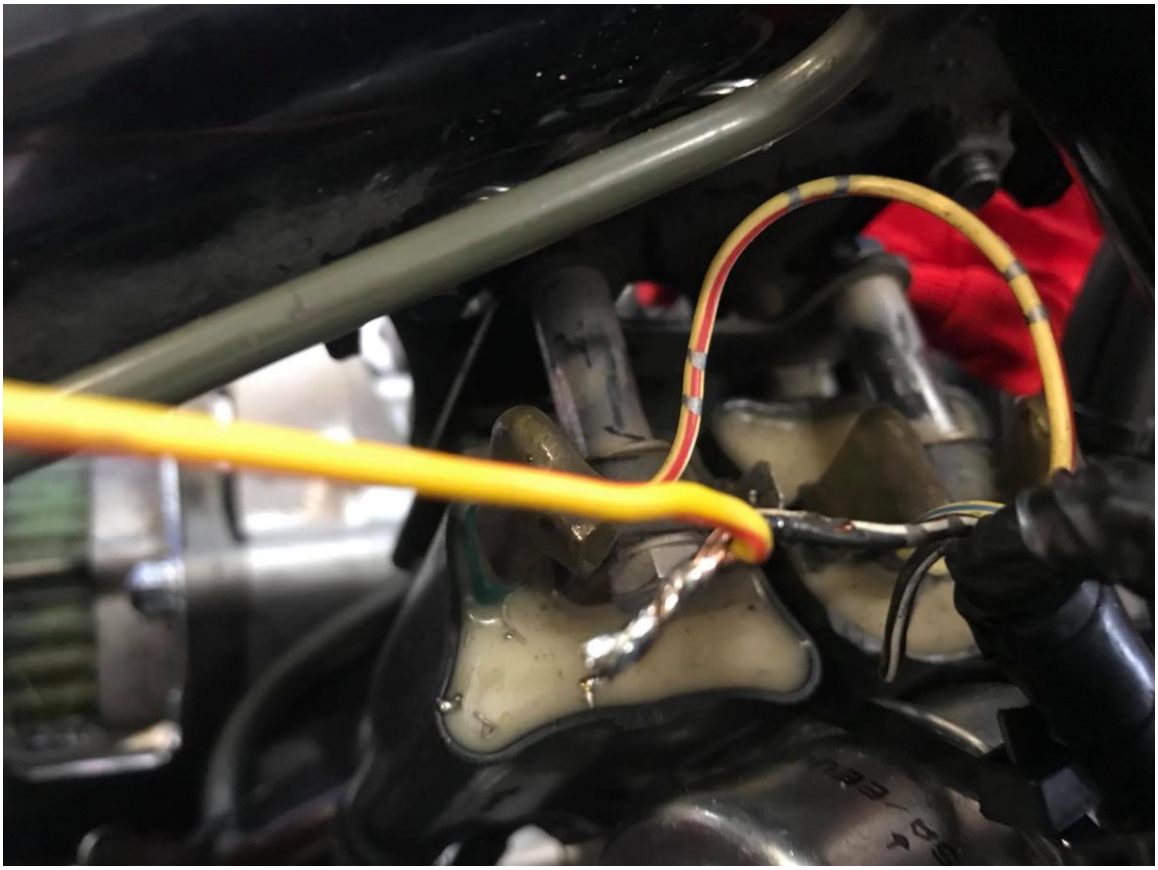
This is an added safety to aid in the prevention of Hydrolock. It won't cure the possibility but it's an added safety for about $50. It goes between the petcock and the carburetors and stops the flow of fuel when you turn off the key. Regardless if your using an OEM petcock or an aftermarket such as the Pingel. It's simply an added safety to stop the flow of fuel from the tank. There are a few variations on wiring the Dan-Marc and each time I do one I come up with different ideas. It's been found that wiring it in to the coil allows it to shut the fuel off if the key has been turned off, the kill switch activated or one of the safety features has been activated such as the bank angle sensor, side stand or neutral switch. This is how I'm going to wire this one using a 12volt 30 amp 4 pin relay and the coil wire to trigger it.

Just a picture showing the Dan-Marc mounted to the carbs and lines run. Using a fuel filter here for the first time also. We'll see how that works?

Find the white wire with the black stripe off one of the coils and remove it by pulling the spade connector off



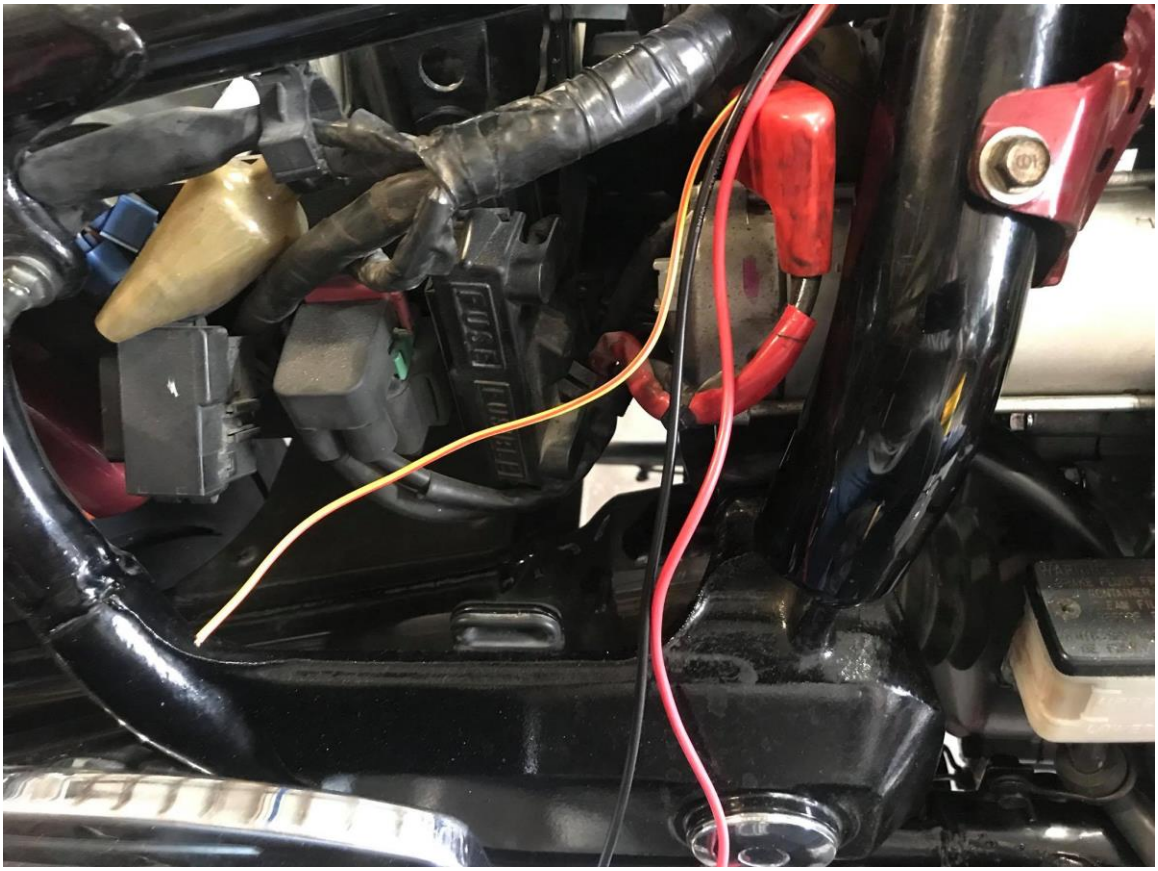
I cut the connector off and soldered a yellow wire to it, you can use any color wire you want but using something other than red or black helps with confusion when trying to sort out the wires once they are all installed and trying to figure out which same colored wire goes where?



Slid a new spade connector over where the 2 wires got soldered together and plugged it back onto the coil.

Then ran the other end of the yellow wire along the frame towards the back of the bike

Pulled it out through behind the right hand side cover then took a red wire and a black wire and ran from there back toward the front

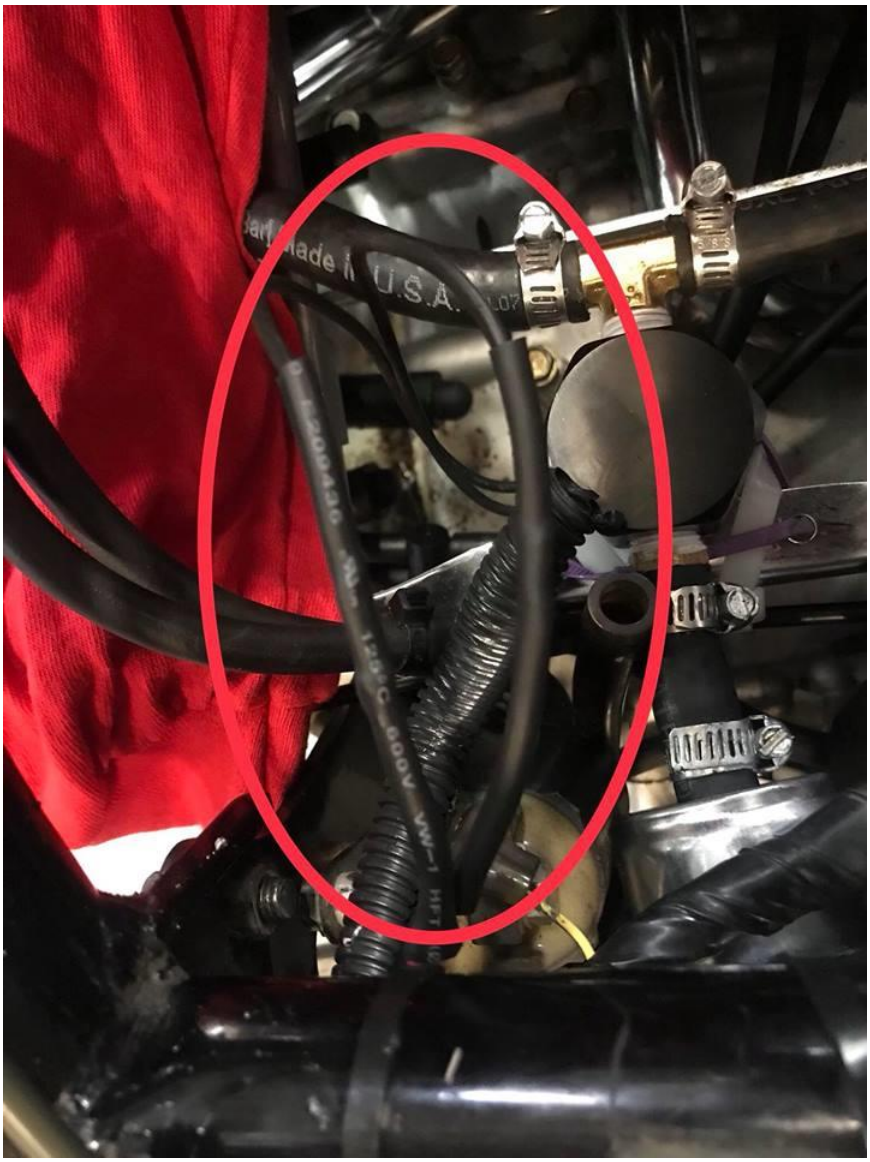


Followed back the path I ran with the yellow wire with the 2 other wires

Ran the black and red wires all the way to the Dan- Marc

Soldered each of them to the 2 wires coming from the Dan-Marc. Makes no difference which wire goes to which.

Added some heat shrink before soldering and then slid over after soldering

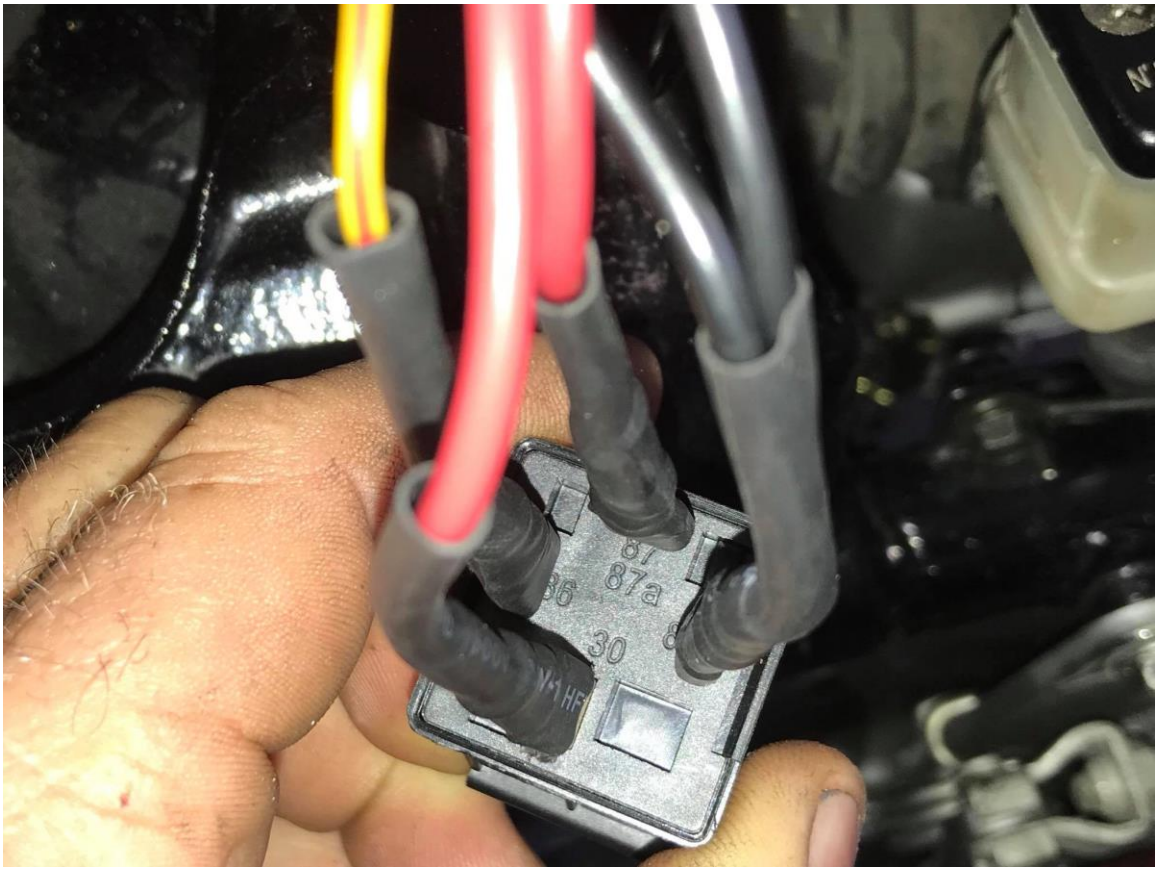


Used a wire loom to protect and keep the wires protected and together

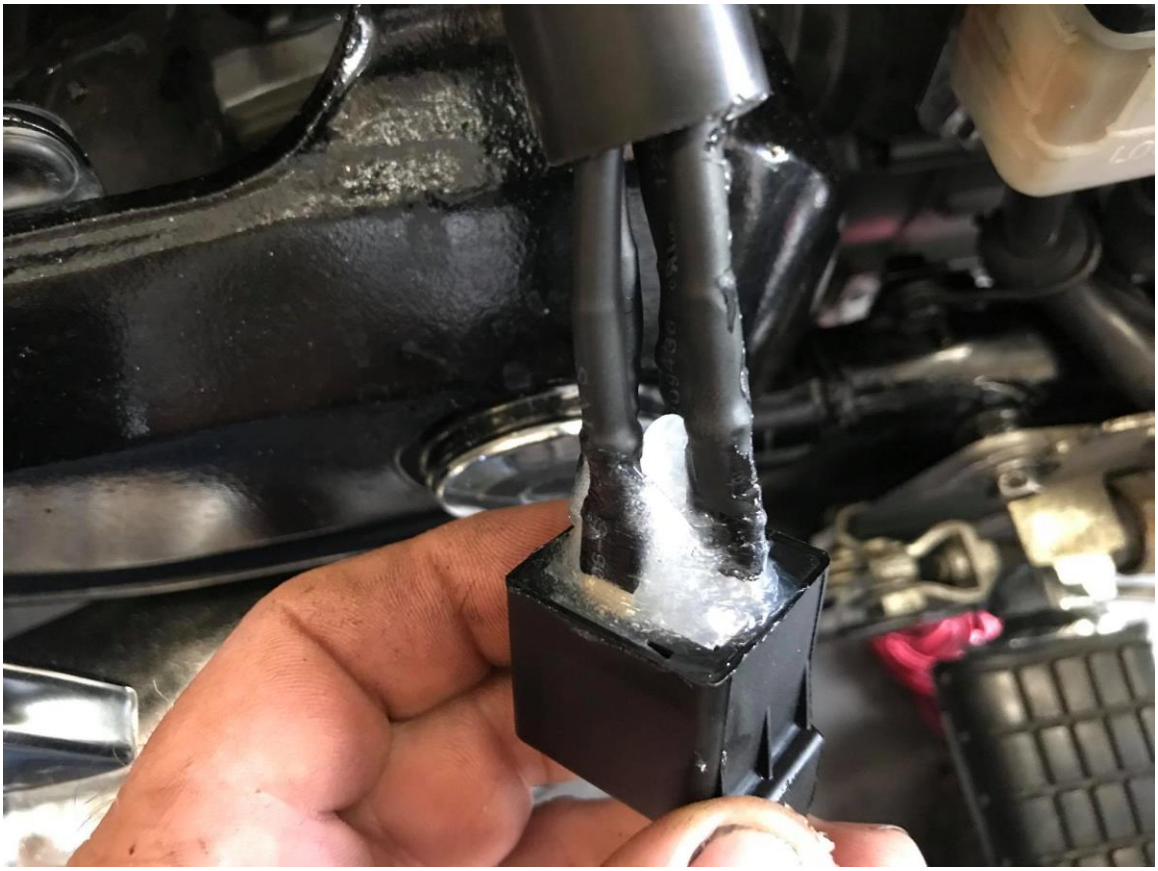
Ran the loom back through the frame zip tying it along the way

Along with the 3 wires coming from the front I added another red to go to the power feed and another ground to tie the bikes ground to the Dan-Marc and the relay. So on the black connector it has 2 wires going to that spade connector.

Attaching the wires to the relay goes as follows:
The #86 terminal on the relay is where the yellow wire that goes to the coil will go.
The #87 terminal on the relay is where the red wire coming from the Dan-Marc will go.
The #85 terminal on the relay is where the 2 black wires together will go as the ground.
The #30 terminal will get the other red wire from the power source.

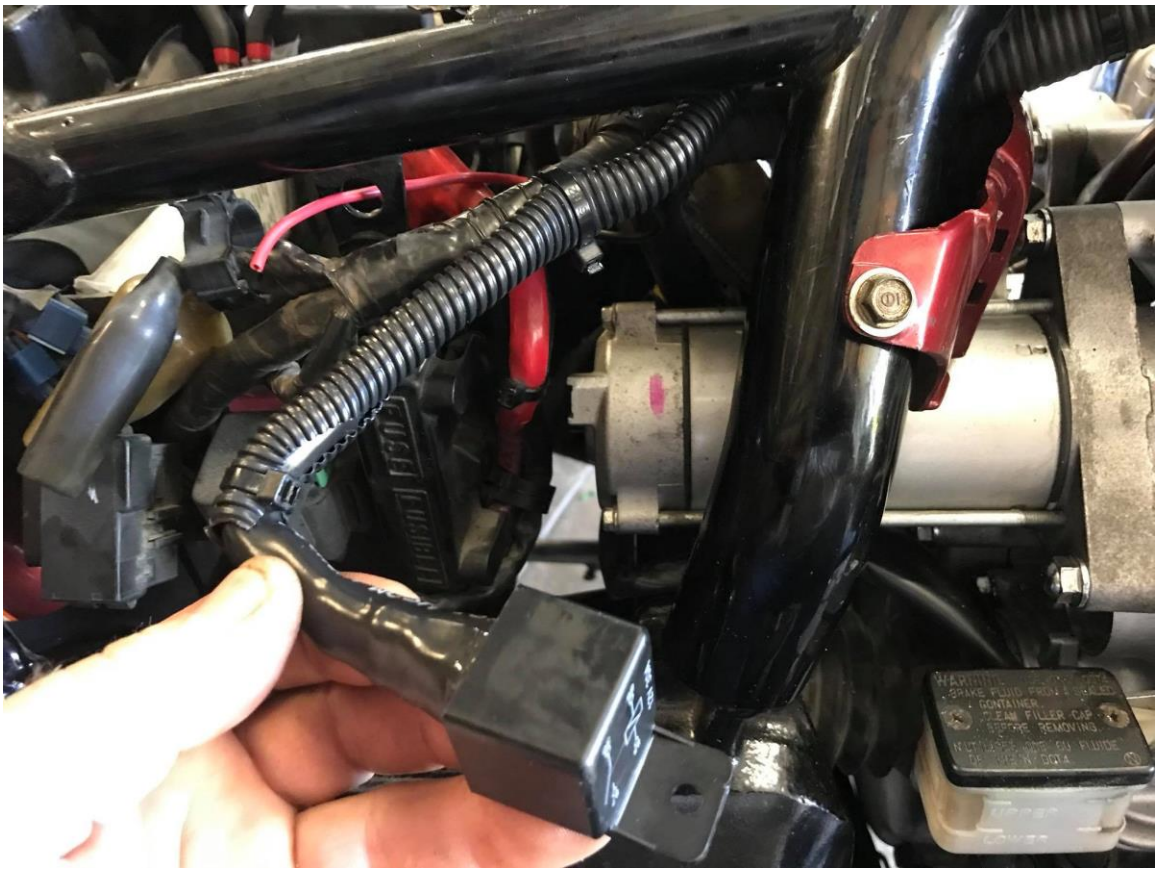


Once the wires are all connected to the relay I cover the connections with dielectric grease



I slid a piece of heat shrink tubing down over the connections and then put some dielectric grease in the other end of the heat shrink and then shrink it sealing out any moisture

Ran my wire loom down to the relay and zip tied it to it



I located the accessories wire stub that I’m going to use to power the Dan-Marc. It is a fused connection that is fed from a 5 amp fuse in the fuse panel. The Dan-Marc draws only 3/4 amps so it will be plenty.

There are 2 wires a hot and a ground. The red/white is the 12volt and the green/white is the ground.

Connected the red wire from our relay #30 terminal to the red/white accessory wire. Connected the black wire coming from our #85 terminal on the relay to the green/white accessory wire. Soldered the connections and heat shrunk them.

Added a piece of wire loom to protect them over to join the other wires.

Drilled a small hole in the front of the battery box and attached the relay to it using a zip tie. Now it sets down in out of the way next to the other relays

Test our work turning the key on and off and listening for the click of the Dan-Marc coming on and off.

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