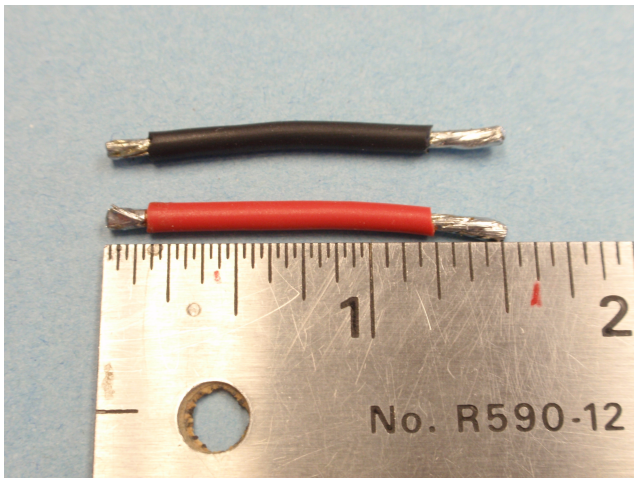
Wiring a Speed 400 motor for the SAM Speed 400 LMR event.

Picture A: All components needed to wire up the Speed 400 motor, Speed Controller (ESC), wire and connectors:

A

Picture B: Pigtail wires for motor hookup, 16 AWG silicone insulated wire 1.5”, stripped 1/8” for connector and ¼” for motor.

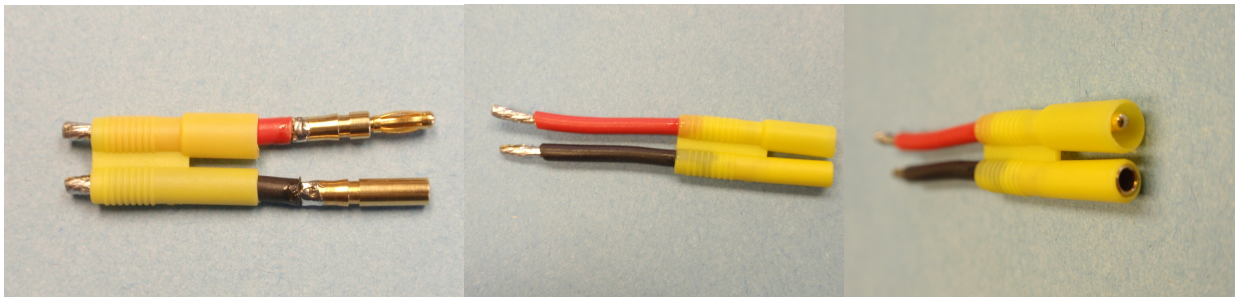
B



Picture C & D: Slipping connector insulator on wires, it helps to lubricate the wires a little with water to get them through the insulators.

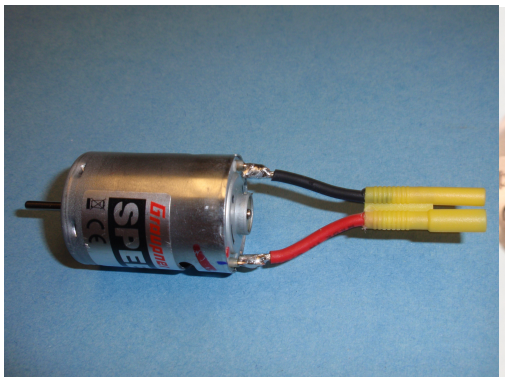
Picture E: Shows detail of which connector goes in the proper side of the insulator.

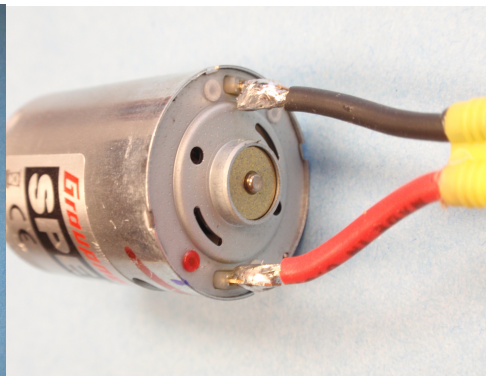
C D E



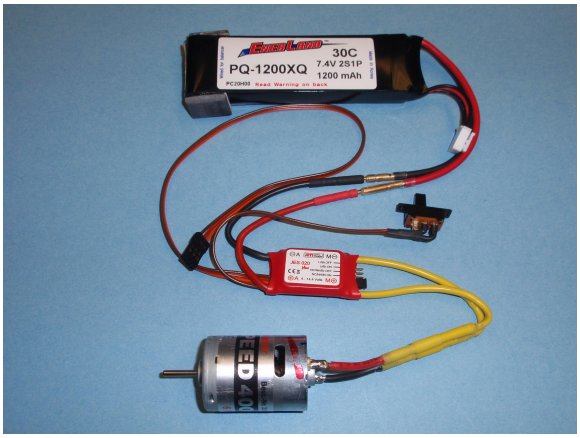
Picture F & G: Pigtail soldered onto motor, note Red dot on back of motor is by plus terminal, and solder the Red wire on here, Black to opposite connection.

F G



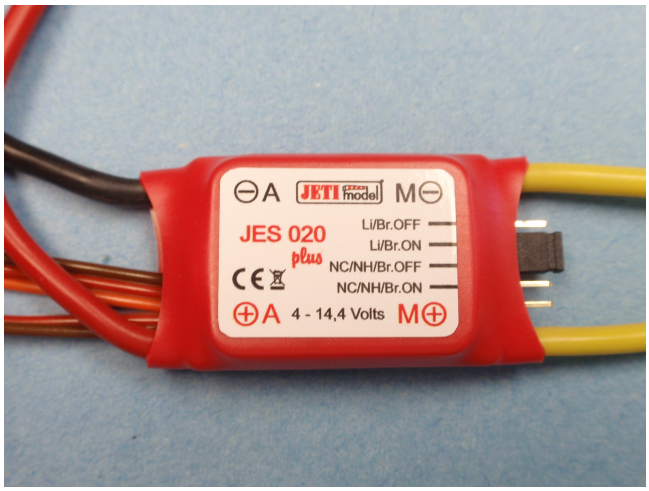


Picture H: Shows wire assembly, ESC with connectors installed and mating connector for motor. On the battery side of the ESC I just solder on the connector pins and cover them with heat shrink tubing. This allows where that connection where it is back in the plane not to take very much room as the wires are able to move around out of the way.



Picture I This shows the jumper location on the ESC when using Lipo battery and brake for the motor to minimize prop freewheeling. When using Lipo batteries it is necessary to choose the Li function jumper to make sure the motor cut off voltage is proper, it is a different cut off voltage then NiCads and NiMh cells.

I



This should get you setup for the Speed 400 LMR event.

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