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Replacing a Fourwinds II or III with a Brushless Generator is as Simple as A, B, C

- A. Take; the generator down to a work area or bench. Remove the propeller. Remove the generator from the mount by removing the three 1/4-20 x I inch hex bolts. Remove the 8-32 x 1/2 inch screw holding the brush holder inside the mount. Pull the brush holder out of the mount. Disconnect the generator wires from the brush holder and pull them out of the mount. See Section 6.14 of the Instruction Manual.
- B. Put the wires of the Red Baron generator into the wire hole in the mount up and out of the mount so the wires can be connected to the brush holder studs. Red goes to the center brush, Black to the outer brush. Also shown in Section 6.14 and the figure below. Use the two #10 ring connectors supplied. Crimp and solder the connectors. Put the brush holder back into the mount, install the 8-32 screw. Cover the screw with red tape. Caulk the wires going into the mount. Install the generator into the mount with the three 1/4-20 hex bolts. Install red tape on the wires and cover the holes in the prop hub. Install a new mylar grease seal on the mount around the generator shaft. See Section 6.9.6.
- C. Install your existing Fourwinds propeller onto the shaft of the Red Baron generator. Reinstall the Fourwinds back up in its mount ready to spin.

Enjoy the new power and a static free radio !

Items Supplied

Red Baron Brushless Generator.
2 #10 ring crimp wire terminals.
1 Mylar grease seal
Several small pieces of red reflective tape

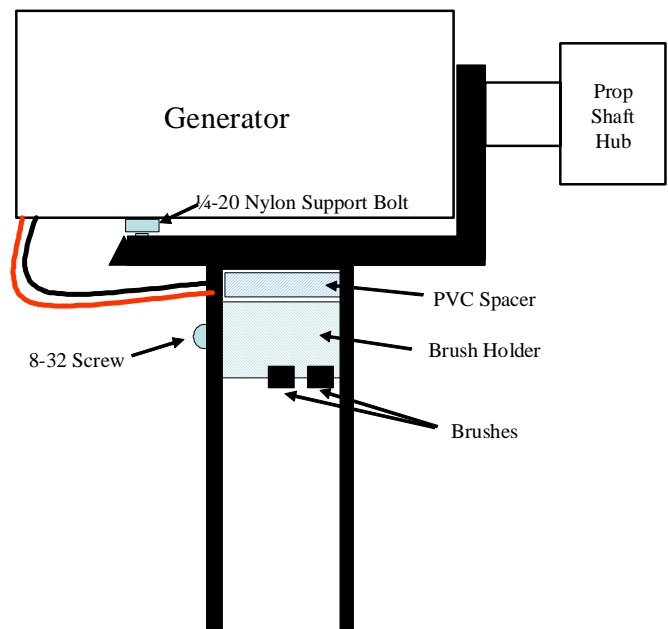
Items Needed

1 - Stop - Operate switch. See back of this page to modify the electrical circuit. You must remove the Stop - Bump Start switch and wire in the Stop - Operate switch.

1 - 30 amp fuse between the battery and pin #5 is recommended if you use a VR-2 regulator and self wire, or use an M1-RB or an M-4.

If you use a VR-4 or VR-5, a fuse equal to 22 amps plus the amps of any solar panels being used, should be placed between the house battery and pin #7 of the VR-4 or VR-5.

You may also modify the M-5 to be an M-7 or M-8 by changing the existing fuse and putting one fuse in the wind generator circuit and a second fuse in the solar panel circuit. See Figure 4.1.3 and/or Figure 4.1.4 attached. The Reverse Brake switch is no longer used.



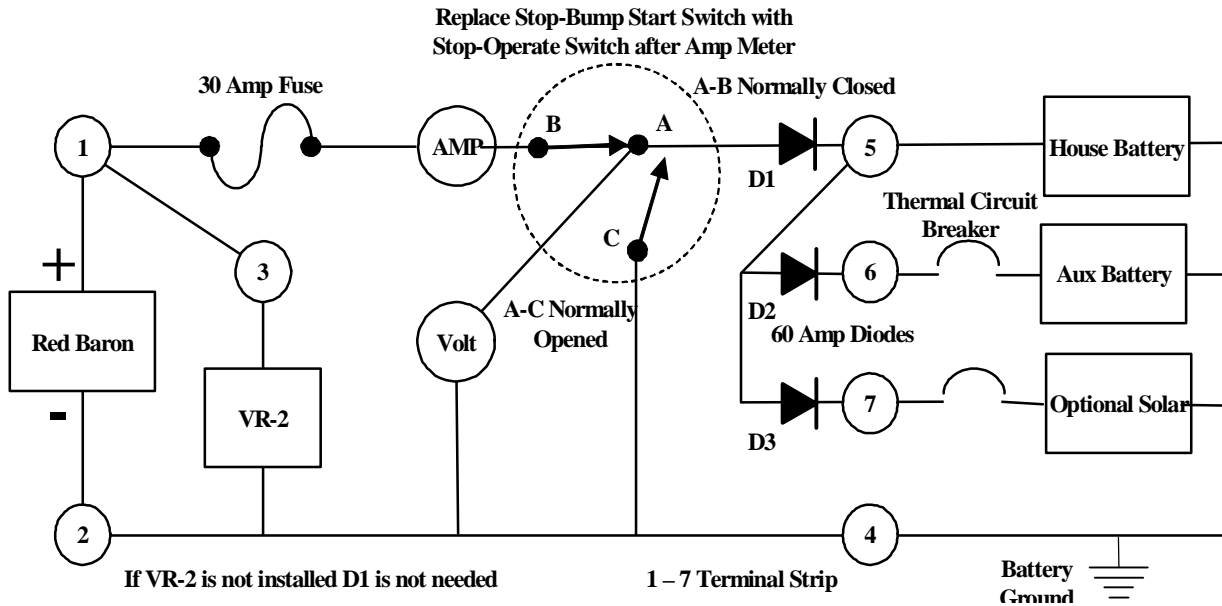
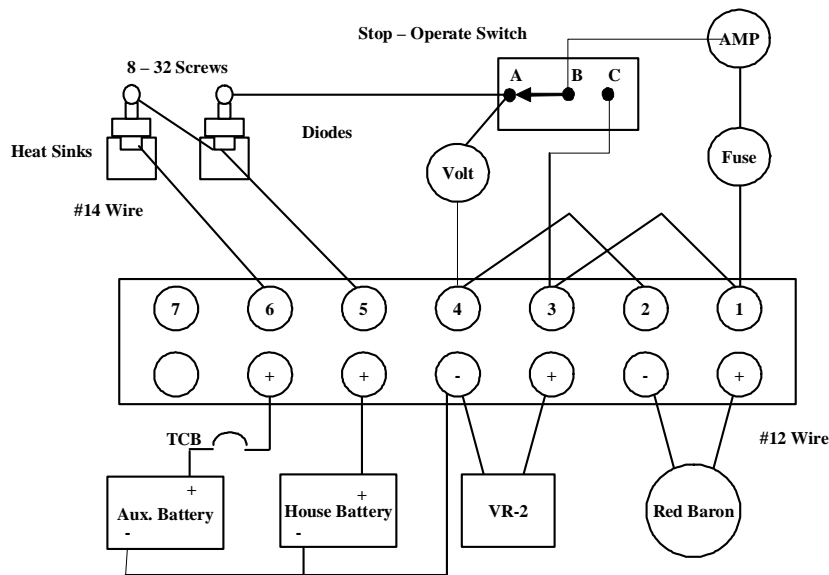


Figure 4.1.1 Meter & Control Panel with VR-2 (Owner wired)

Version 2 – one large house battery, 1 or 2 auxiliary batteries and no solar panels. Owners will need diodes D2, D3 plus a thermal circuit breaker for each auxiliary battery



Meter & Control Panel with VR-2 (Owner wired)

