Maxwell vw 500 Wireless Remote project

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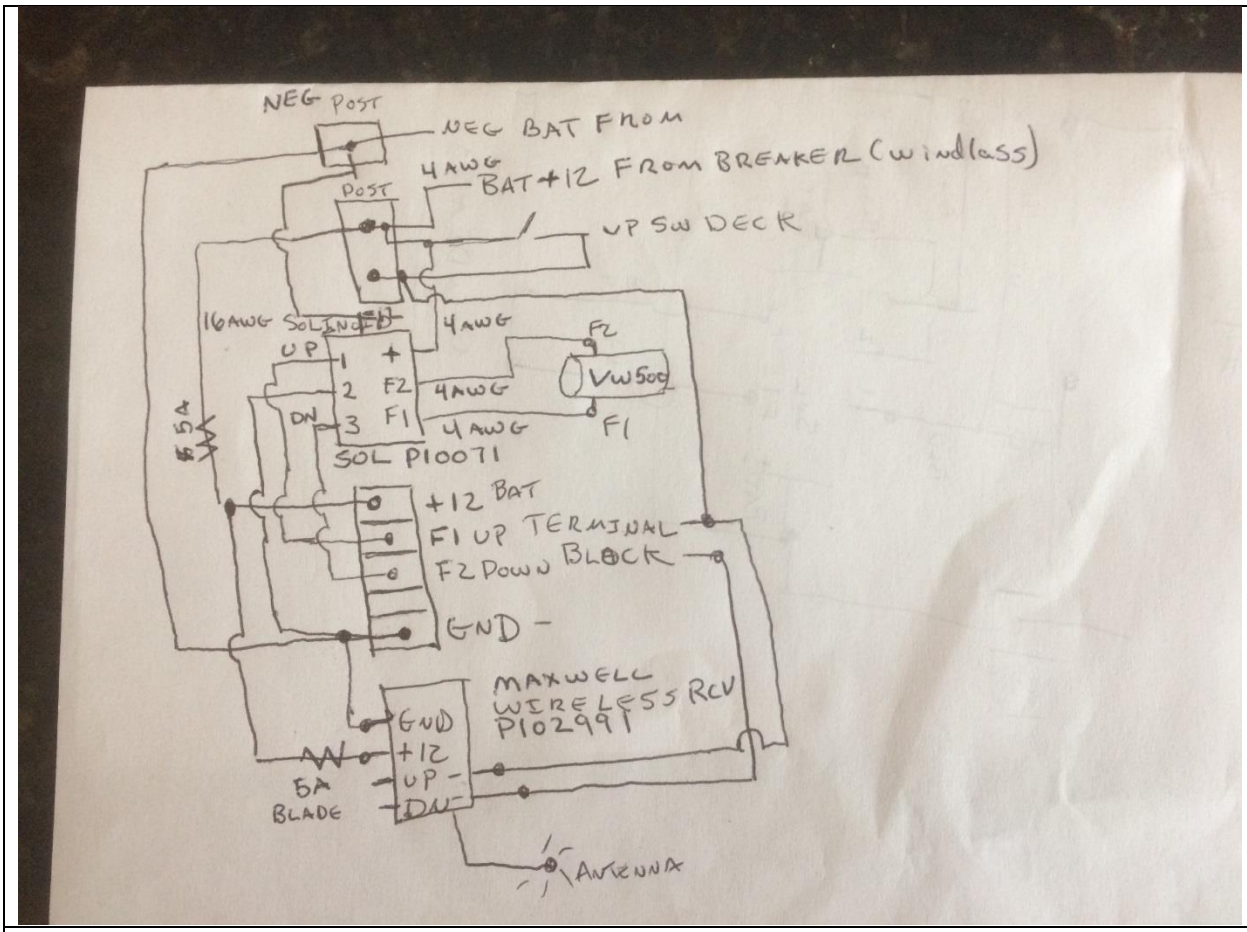
Catalina 320 Hull #972
Maxwell PM Reversing Solenoid P100711 $ 164.99
Maxwell Wireless Remote Control P102991 $183.99

Background:
I single hand my boat to local anchorages and often have trouble raising up anchor when I need to power the boat forward at the same time. A remote wireless switch helps me stay in the cockpit while raising the anchor off the bottom. It is necessary to change the gear oil in the windlass so I used this opportunity to add wireless remote control to my windlass.

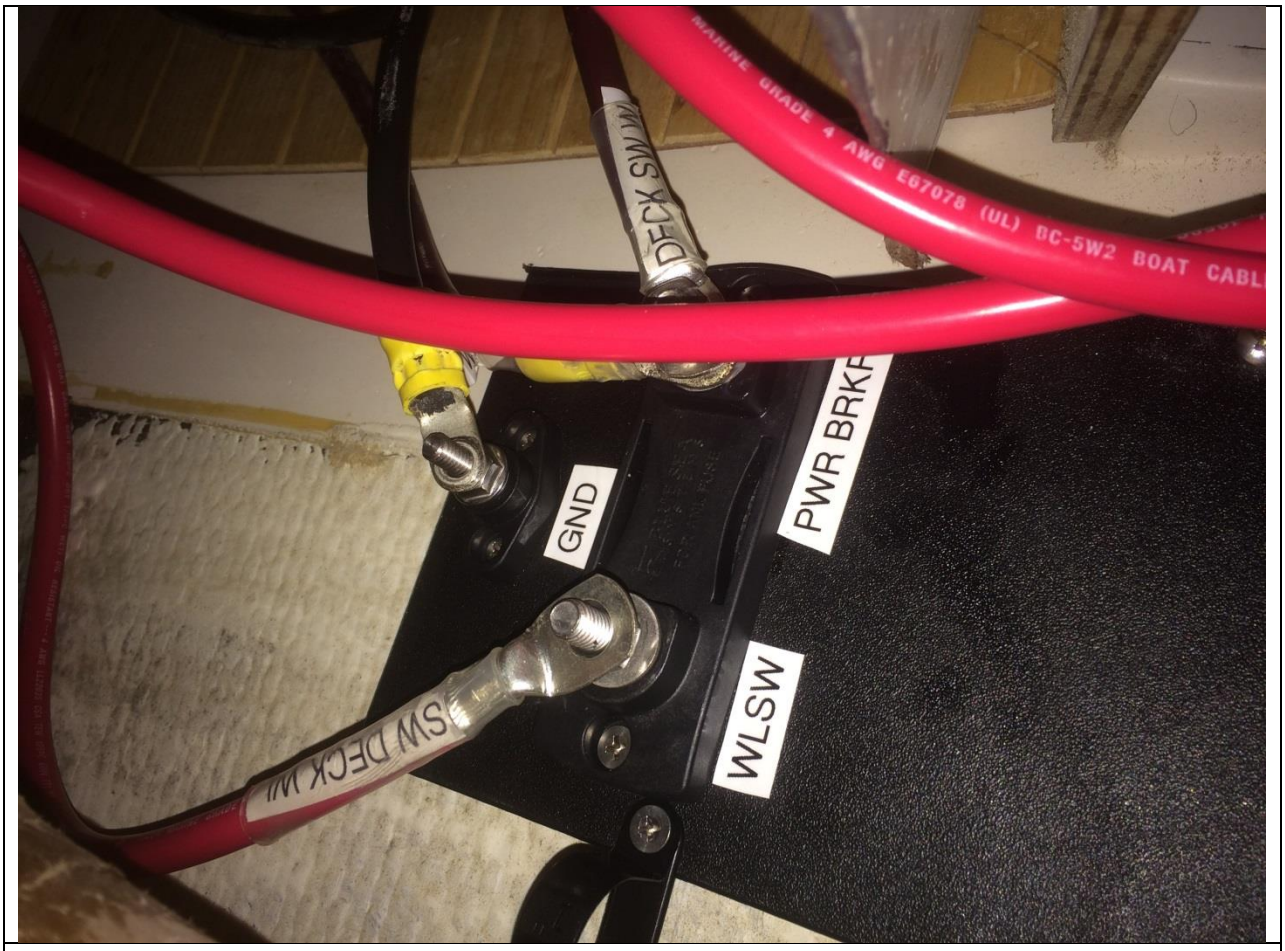
Procedure:

1. Extract the windlass per the Warren Updike article http://www.catalina320.com/filemgmt/index.php?id=185
2. Cut a piece of 1/2 " starboard approx. 6" x 18". Secure the starboard to the internal fiberglass skip that the access boards but up against.
3. Place posts on starboard to terminate existing 4 awg cables.
4. Disconnect the 12v wire going to foot switch and place it on a post. Then create a new cable connection from the 12v post to the foot switch.
5. Disconnect the gnd cable lead from the windlass and place it on a neg post.
6. Mount solenoid to backboard by bottom screw only and shift it forward so you can wire it
7. Mount wire terminal and wire per schematic.

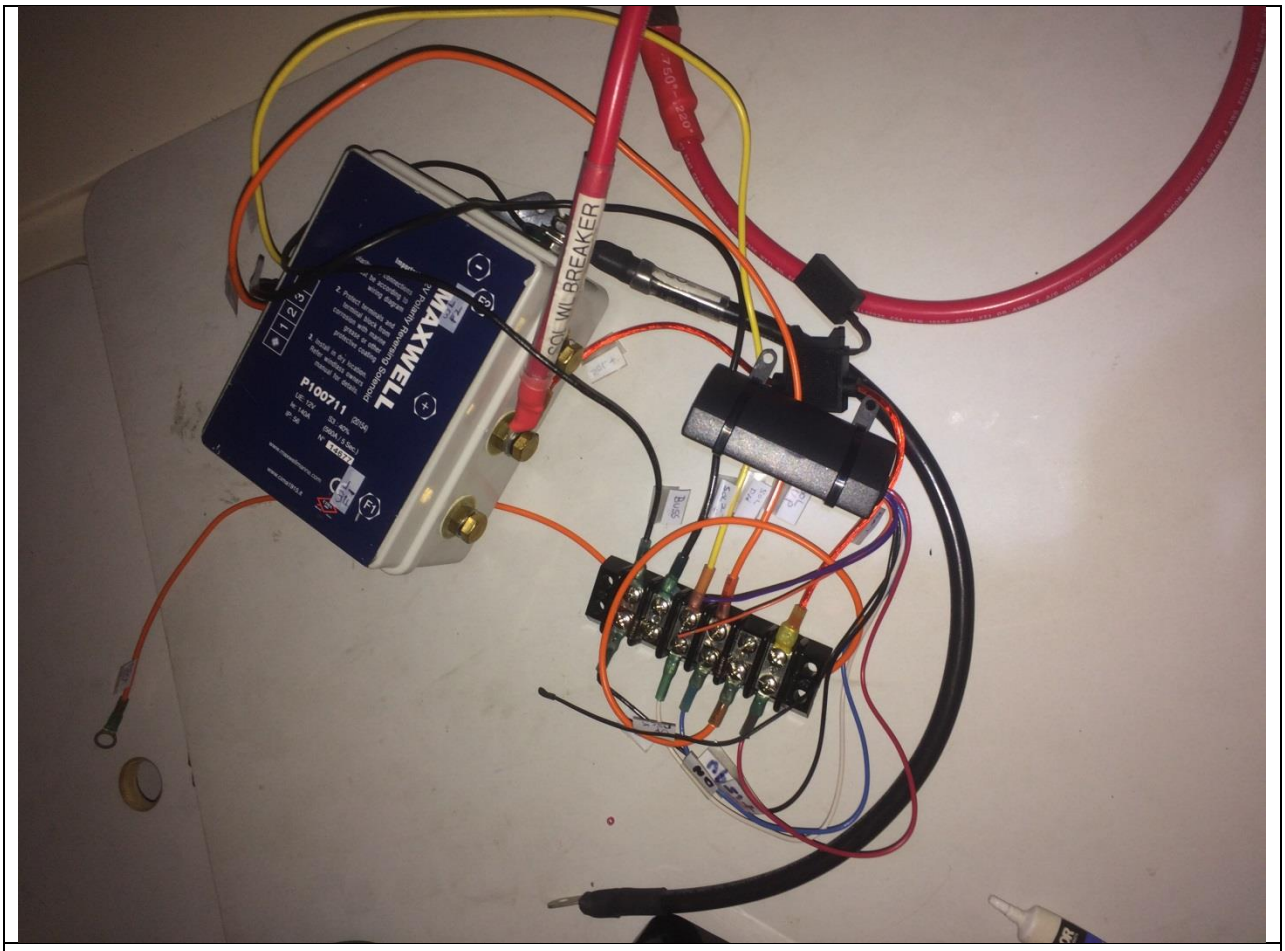


We need to install a solenoid between the direct wiring and the windlass. The cables are short and access is not great so we need to extend the 4awg wiring to posts and extend the wiring from posts to the Solenoid.

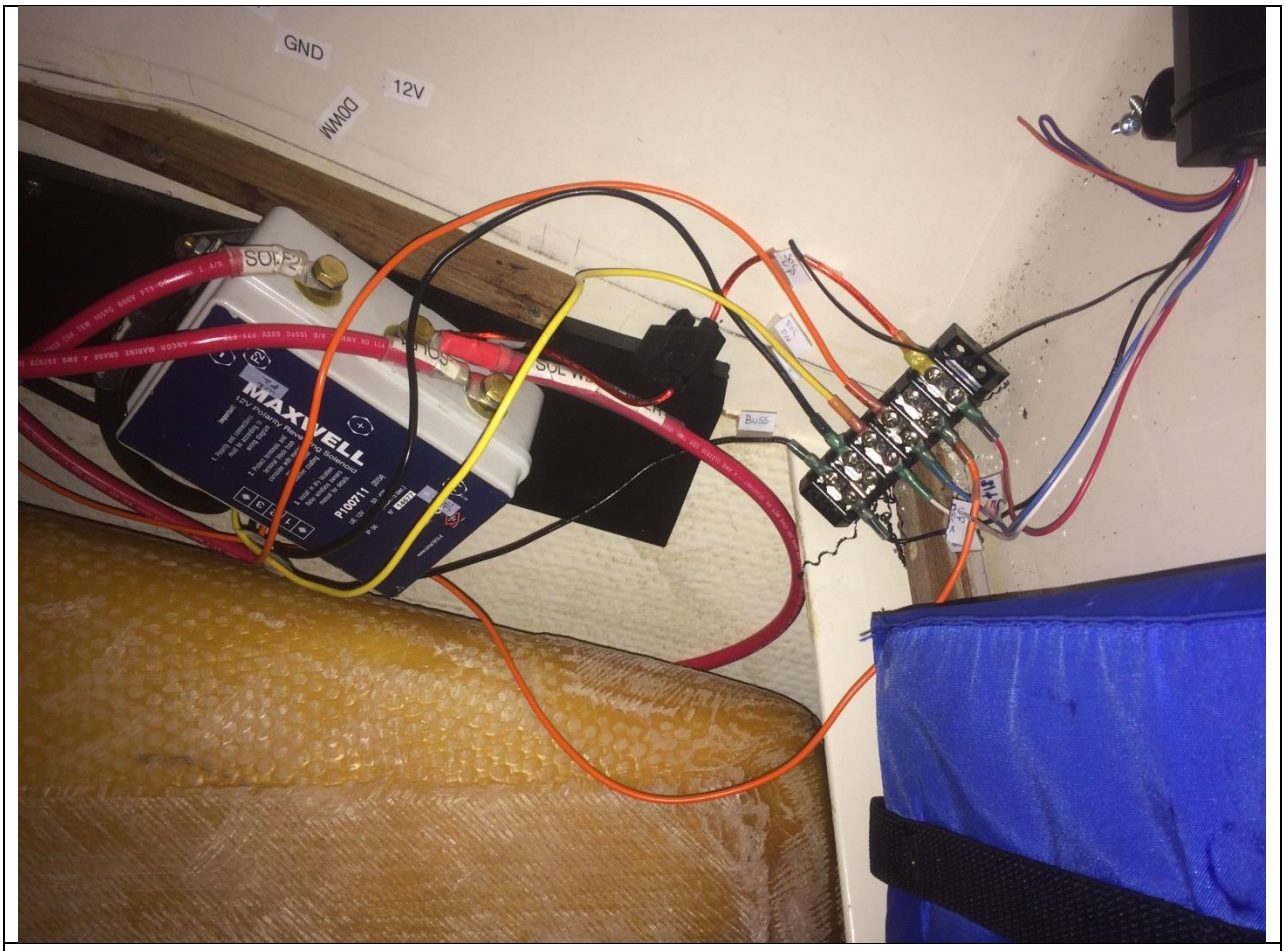
UP
GND
12V
DOWN
GND
PWR
WLSW



Mount posts on backboard. Then attach back board to fiberglass skin.



Wire up the Solenoid and the wireless receiver using a terminal block.



Solenoid is tiled need to tilt aft so we can wire it then we secure it in place with top screw. Screw terminal block is used to terminate wiring in a location where we it can easily be accessed. Also protect 16 awg wiring with 5A blade fuse.