

# Fischer/Porter Rebuild

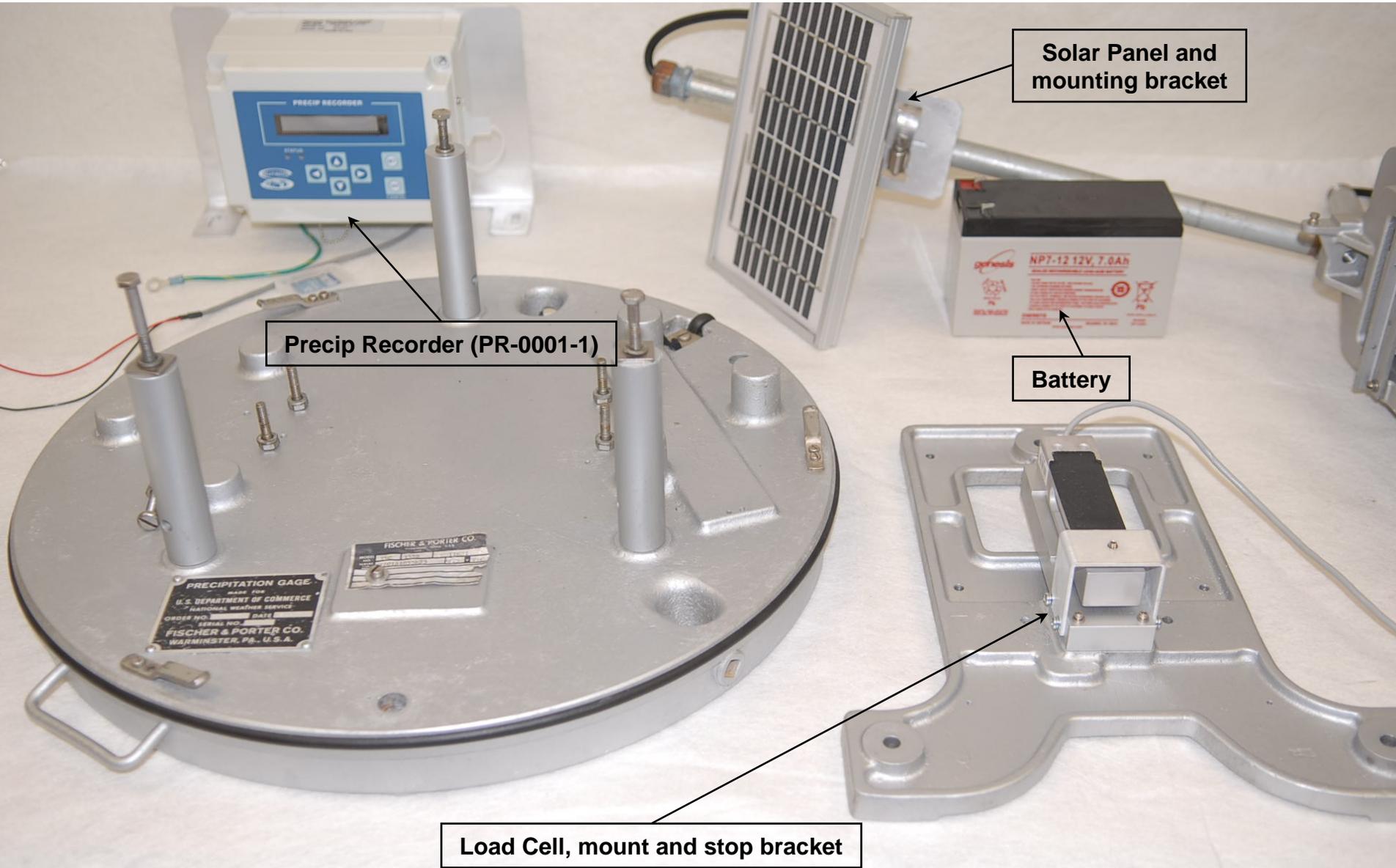


## Installation Supplement

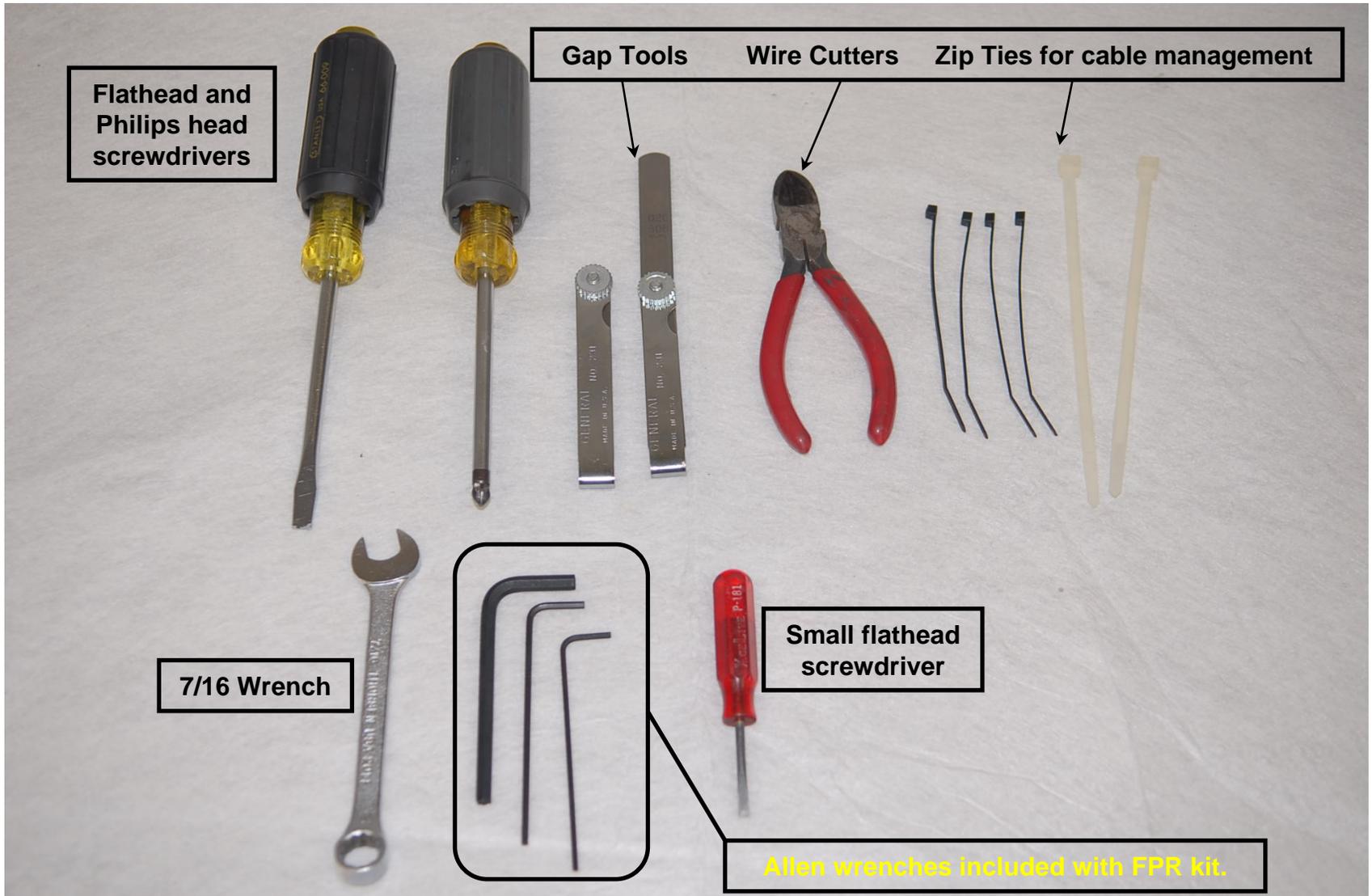
**Presentation by Justin Ripley DCO Hilo**

Photo's by Thom Stenman, OIC DCO Hilo

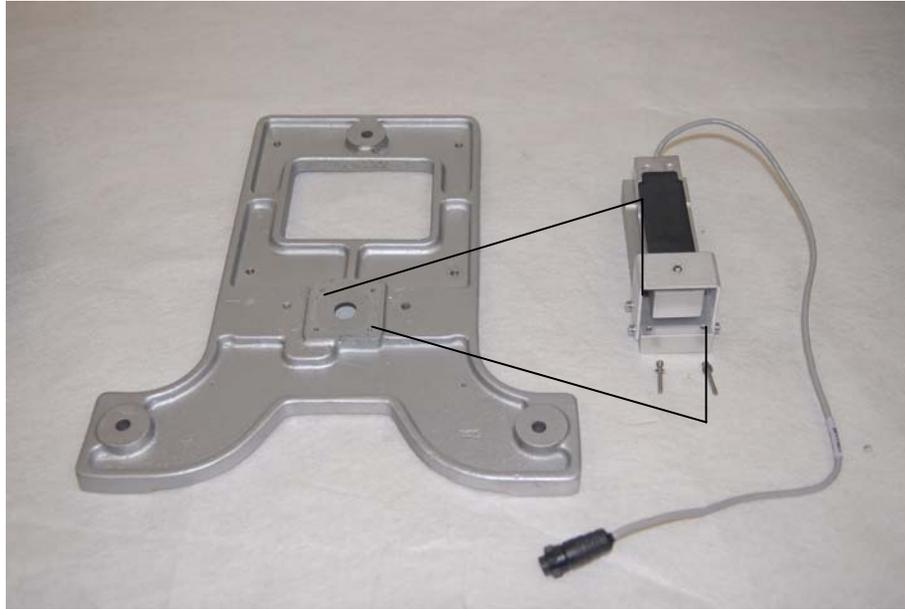
# FPR components...



# Tools for the job!



# Load Cell Mounting



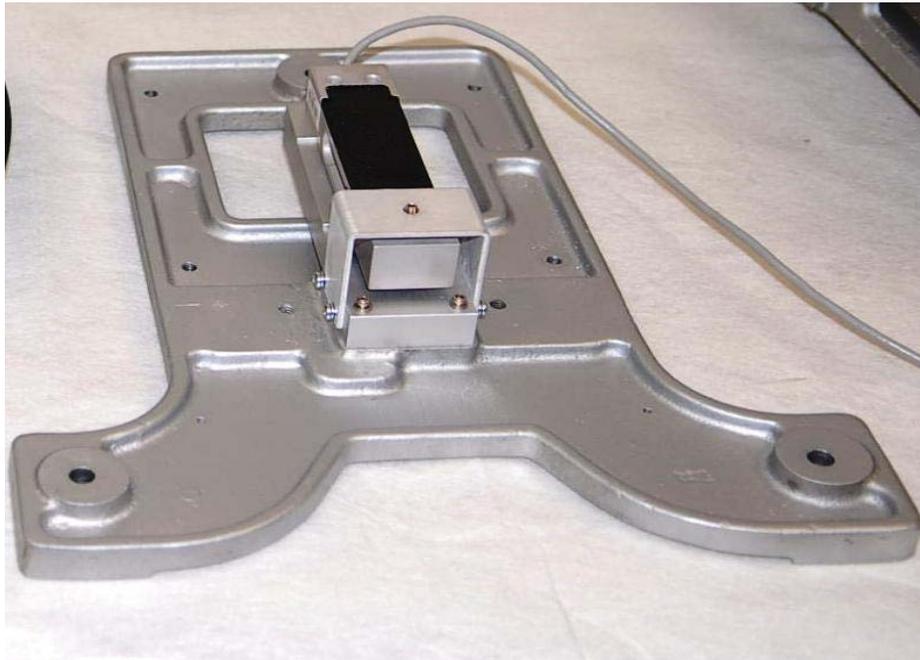
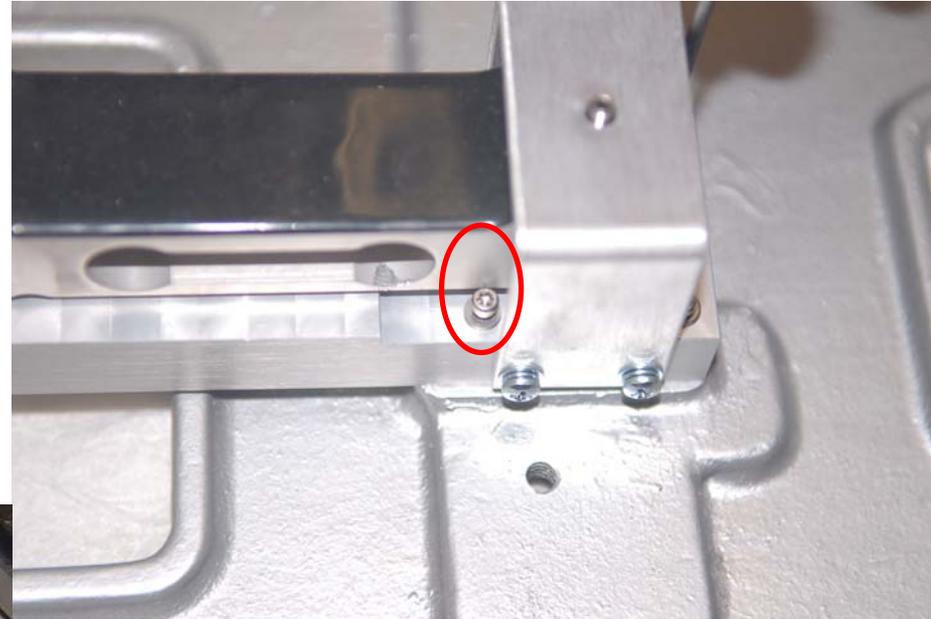
Line up the 4 holes on the load cell with the 4 holes where the dashpot used to be.

Using the screws and allen wrench provided with the FPR kit, attach the load cell to the support plate



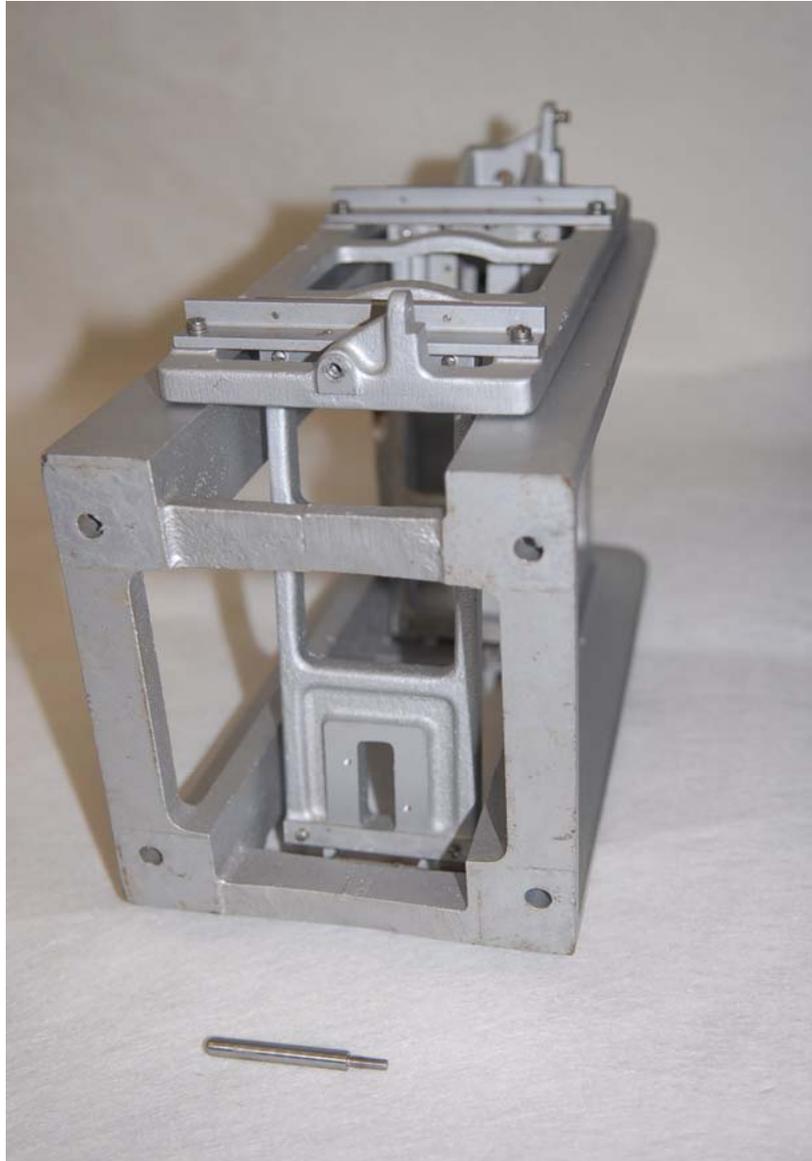
# Load Cell Mounting cont.

The clearance is tight with the back screws. The screw heads might rub the side of the load cell as you screw it in. Load Cell performance is not affected.

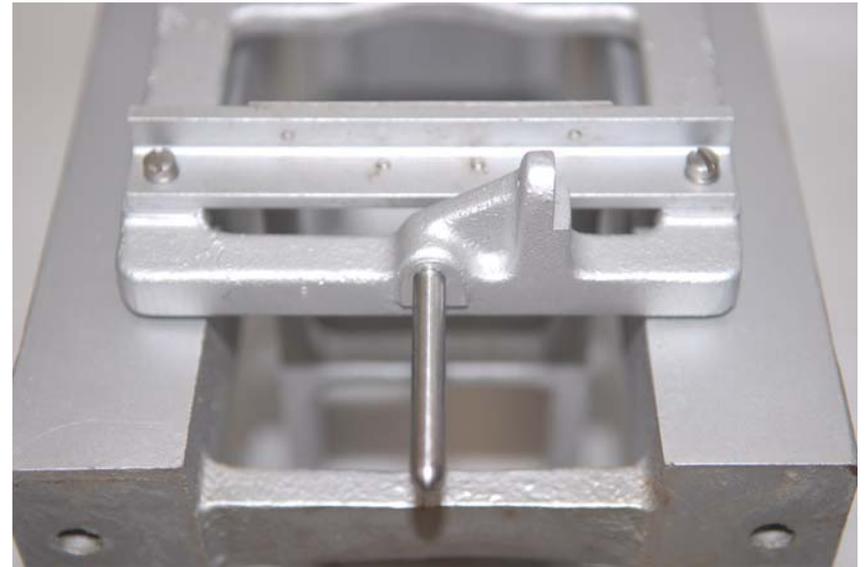


Finished!

# Plunger Rod attachment



Screw the new plunger rod where the old one was.



Tighten finger tight and you are good to go!

Reference Pg. 9 FPR Op and Maint. Manual

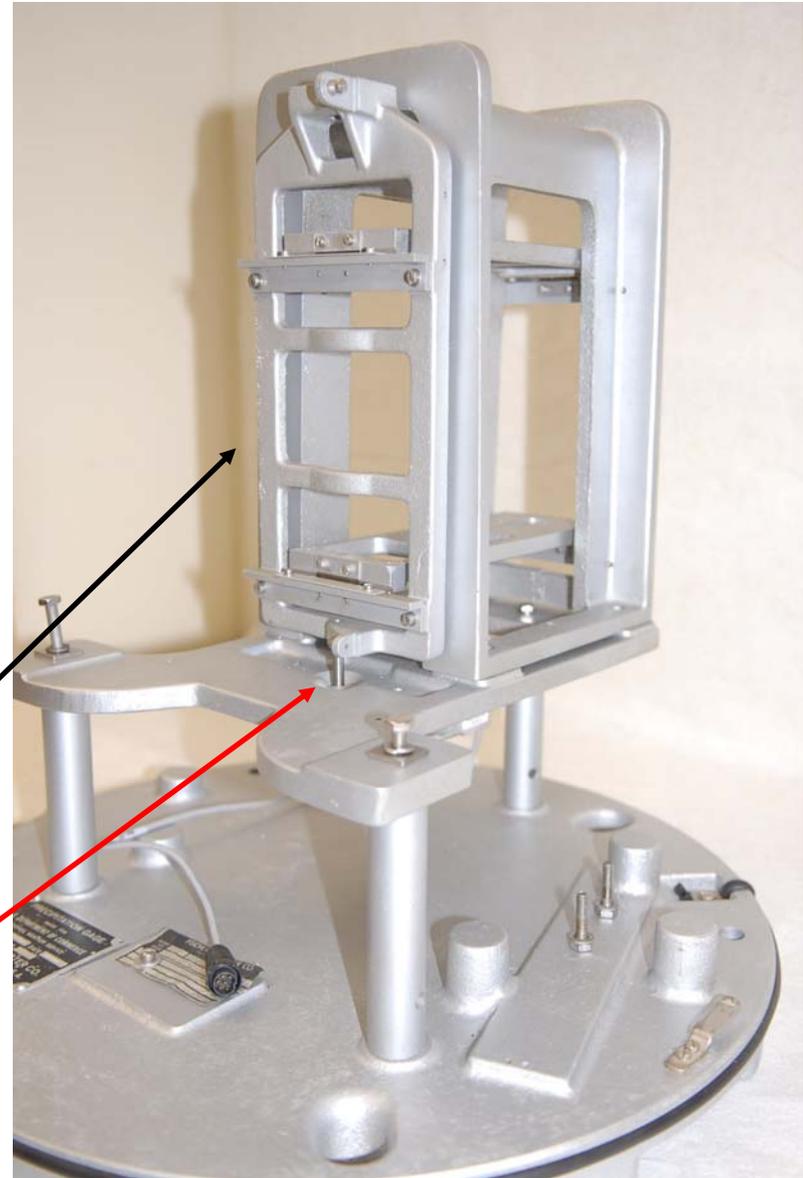
# Putting things back together...

Reattach the support plate to the F/P base plate.

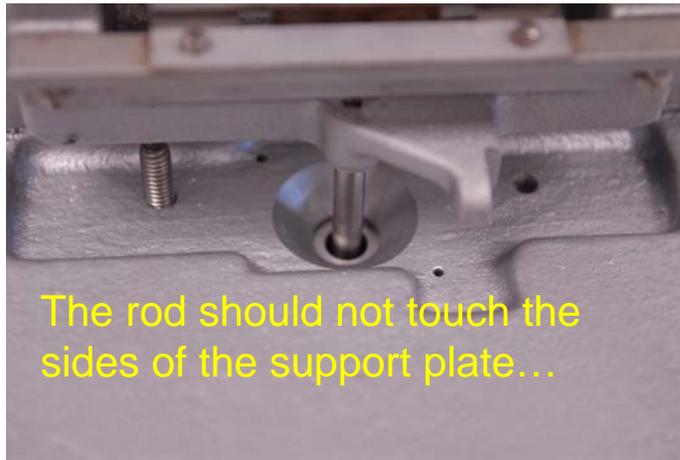


Reattach the parallel plate mechanism to the support plate.

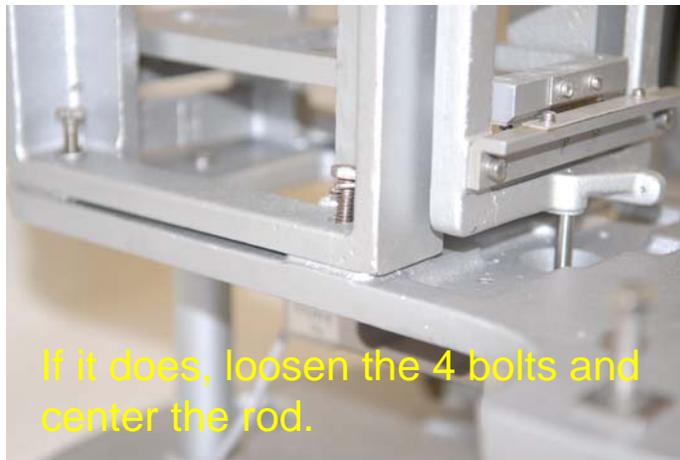
**Do not let the plunger rod slam down onto the load cell.**



# Perform some adjustments

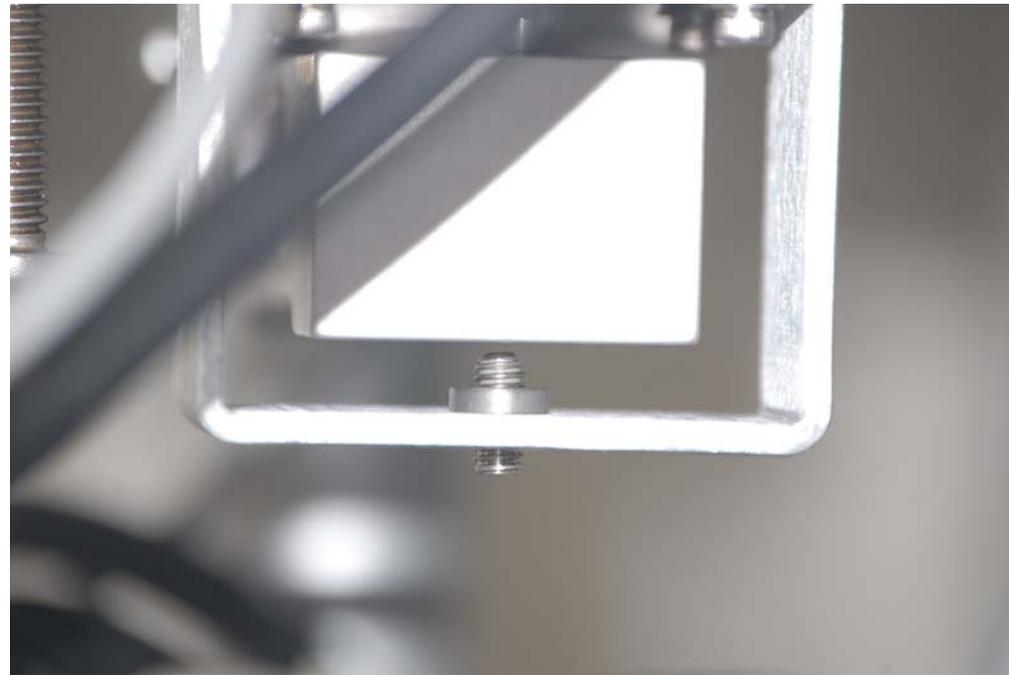


The rod should not touch the sides of the support plate...



If it does, loosen the 4 bolts and center the rod.

Using your gap tool, make sure there is a 1mm gap between the screw and the load cell.



The gap allows for normal operation but helps prevent damage in case the load cell is taking on too much weight.

# Precip Recorder!

The same bolts can be used to mount the Precip Recorder as were used to mount the old punch tape mechanism!

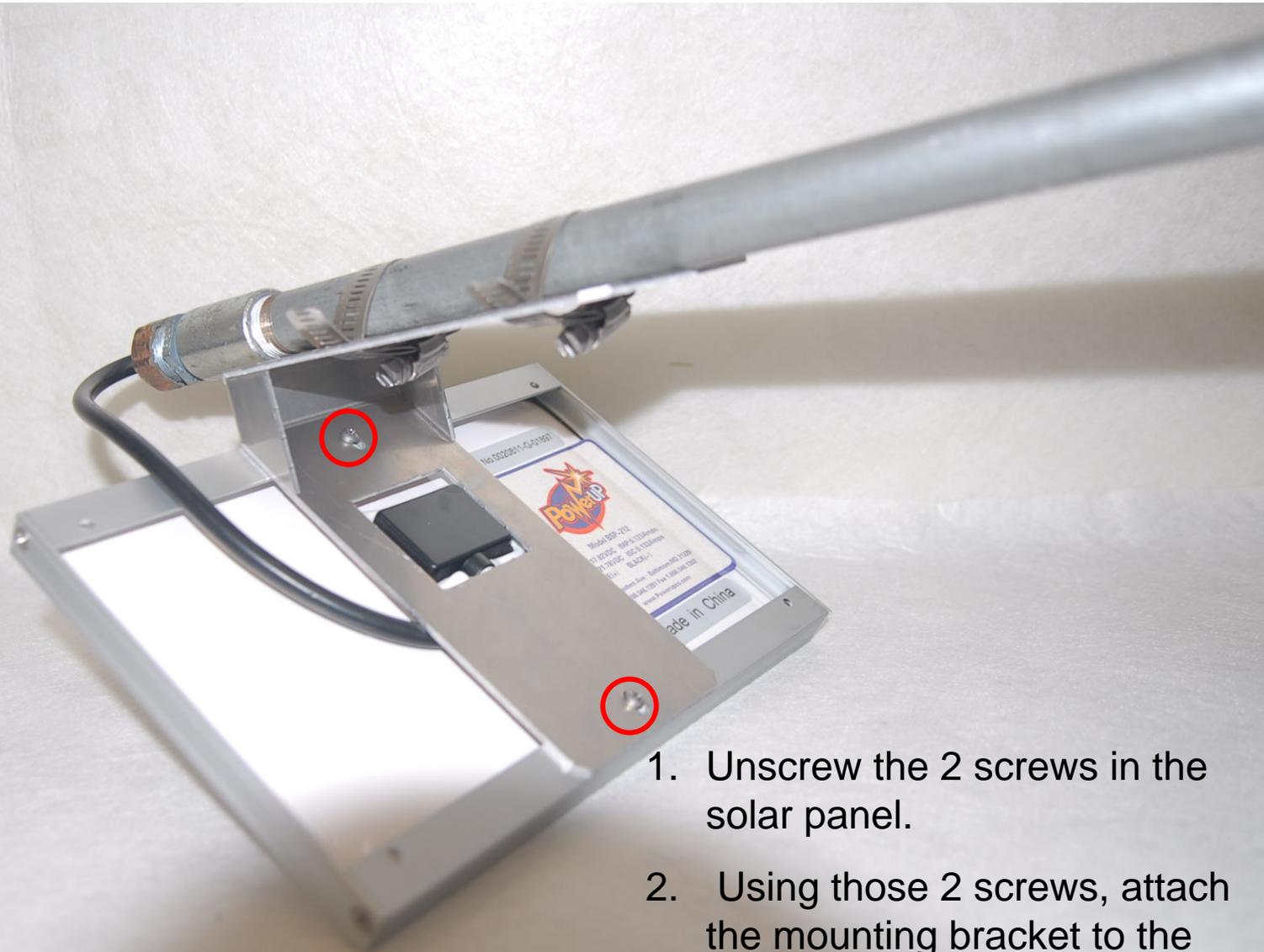
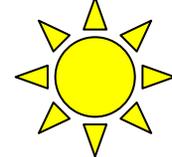
Mount the Precip Recorder where the punch tape mechanism used to be.



Attach the lug of the green wire (ground) to one of the mounting bolts.



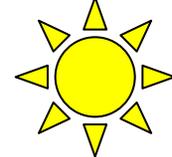
# Solar Panel installation



1. Unscrew the 2 screws in the solar panel.
2. Using those 2 screws, attach the mounting bracket to the back of the solar panel



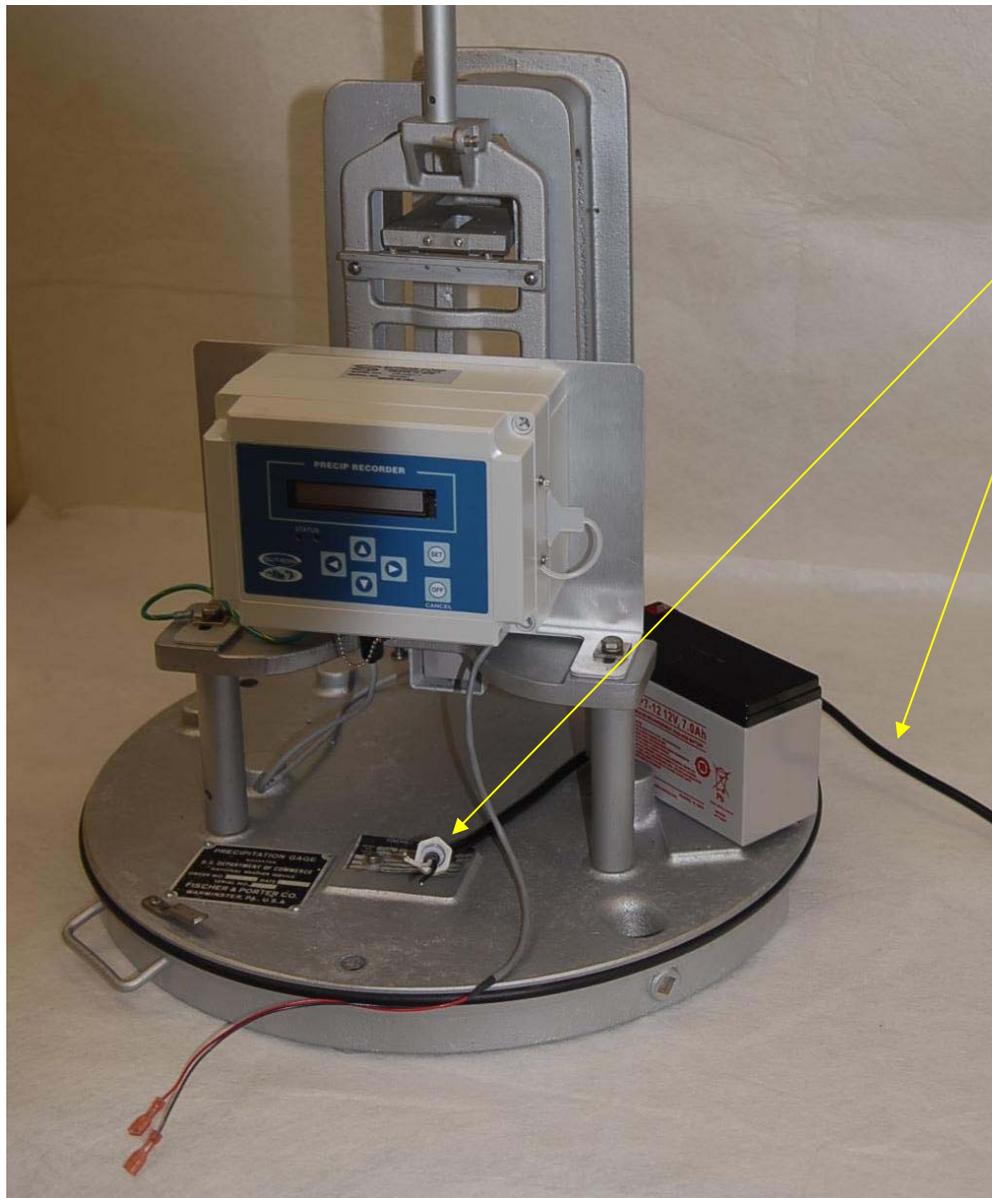
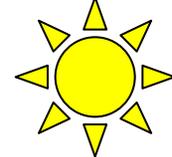
# Solar Panel installation



Using the clamps provided with the FPR kit and a flat head screwdriver, mount the solar panel to a vertical or horizontal pipe.



# Solar Panel installation

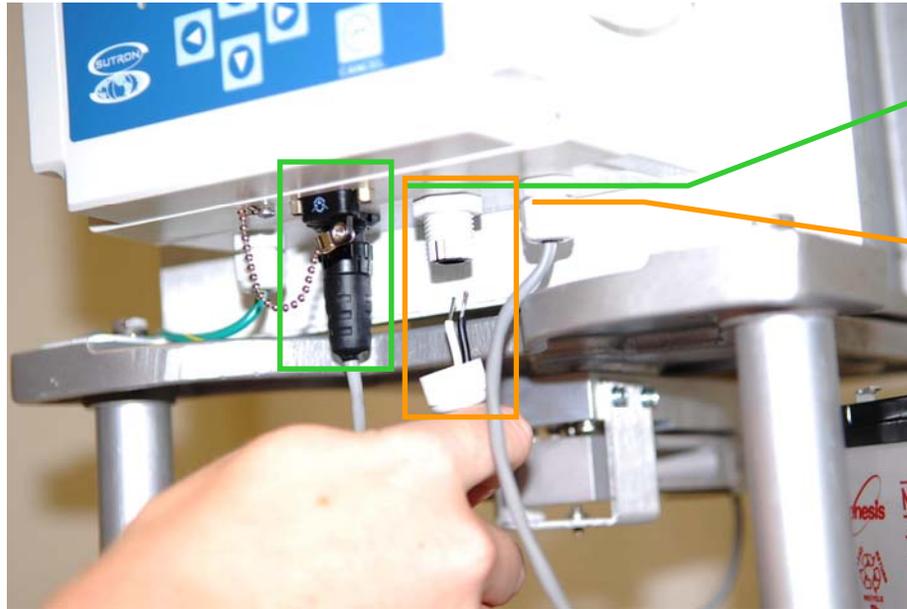


Route the solar panel cable into the F/P enclosure.

This is how your new FPR should look so far!

# Connecting all those wires...

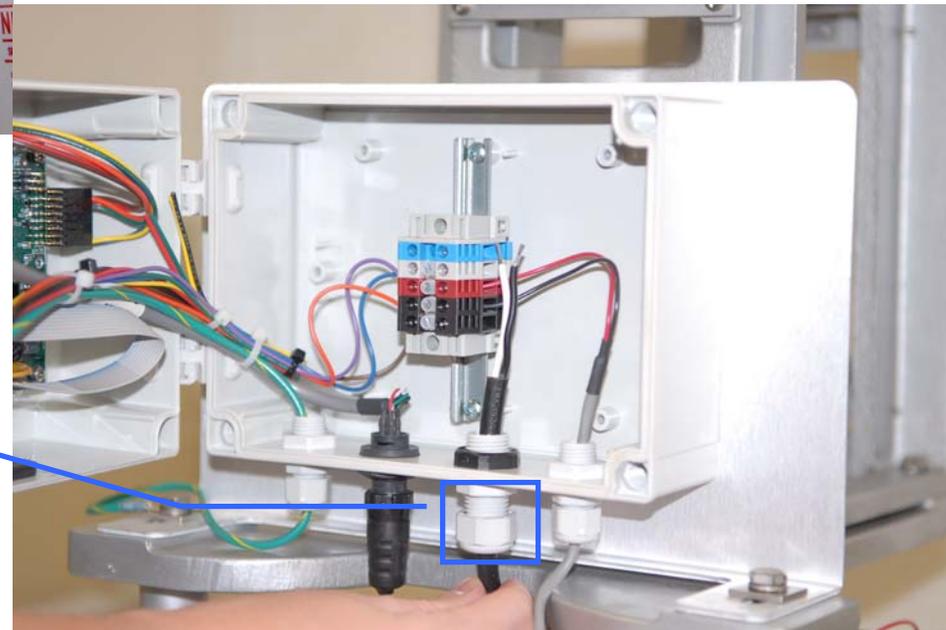
**WARNING:** Use a ground strap when working inside the precip recorder. Static electricity will fry the circuitry.



Plug the load cell cable into the precip recorder.

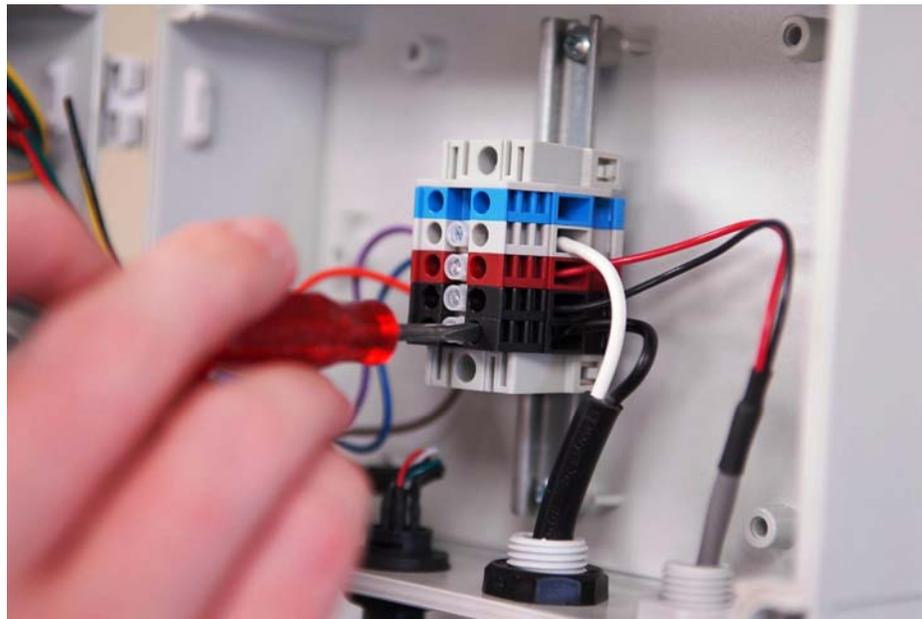
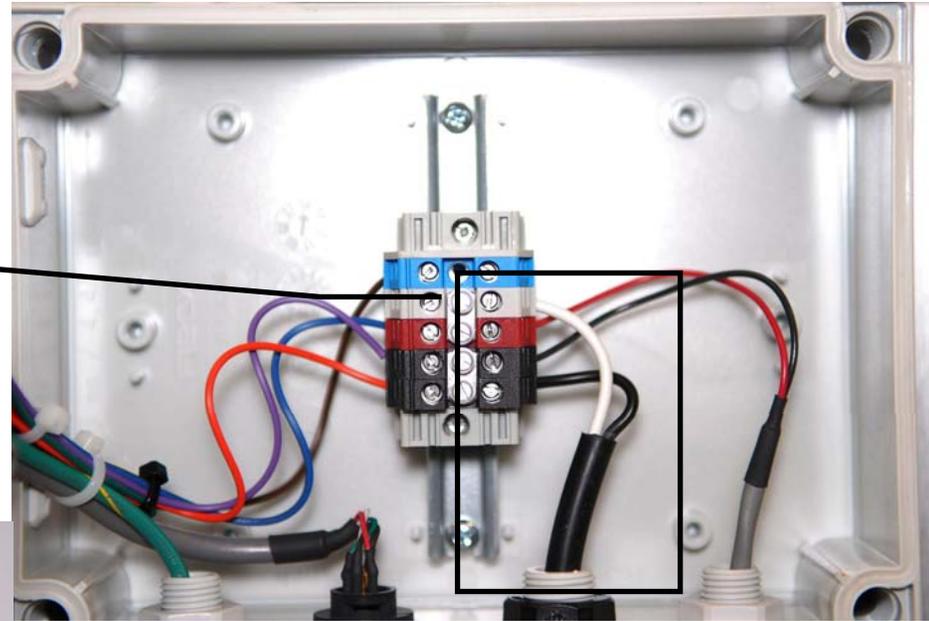
Route the solar panel cable through the cap...

...and up into the precip recorder housing.  
Tighten the cap to secure the cable inside the housing.



# Connecting all those wires...

Insert the white wire and black wire as shown. Make sure the black wire is in the very bottom hole.



Use your small flathead screwdriver to secure the wires. Tug on them slightly to make sure they are secure.

# The Fischer/Porter Rebuild!

**Close and secure the precip recorder door.  
Connect your battery and power up that FPR!**

