

Remote Pump Control Installation Instructions

The PAT Transmitter has been programmed with an ID number, which corresponds to the ID number programmed into the PAR Receiver.

If a 4 foot transmitting antenna is used, it is provided with an antenna tuner, and 18 feet of coaxial cable. A 16 foot antenna, does not require an antenna tuner.

PAT TRANSMITTER

1. Install the PAT transmitter by using the four enclosure mounting holes.
2. Connect the coaxial cable to the antenna, and mount the antenna base to a 10 foot long pipe. Keep the antenna clear of surroundings for 10 feet. Mount the antenna as far away from the transmitter's location as the coaxial cable will allow.
3. Connect one end of the coaxial cable to the antenna. The other end of the coaxial cable is connected to the 'antenna tuner'. Connect the antenna tuner's connector, marked 'transmitter' to the PAT's coaxial connector. Be careful not to strip the connector's threads.
4. **To avoid damaging transmitter, the antenna's coaxial cable must be connected to the PAT before power is applied to the transmitter. If your RPC kit is Solar powered, connect the red wire to the batteries Positive (+) terminal, and connect the solar panel cable to the terminal strip, as shown in Figure 1.**
5. **If your RPC kit is AC powered, connect the red wire to the batteries positive (+) terminal, then wire the line cord to the marked terminal strip terminals, as shown in Figure 2 and plug the power cables plug into a 120VC power outlet.**
6. Follow this procedure to test the transmitter's input circuits: Use a wire jumper to momentarily connect pins 1, and 2 of the terminal strips terminals, until the transmitter's "on" light turns on. Wait one minute, for the receiver output to turn on. Remove the wire jumper, and wait one minute for the receiver to turn off. Wait one minute, and remove the transmitter's cover, then use a wire jumper to momentarily connect terminals 3 and 4, you should hear the transmitter's latching relay click, and an "on" signal should be sent. Use the wire jumper to connect terminals 4 and 5, an "off" signal should be sent.
7. If using a single level switch, connect it to terminal strip terminals 1, and 2. If you are using two level switches, remove the PAT's cover, and connect the lower switch to terminals 3 and 4, and the upper switch to terminals 4, and 5. Terminal 4 is the common for the dual level switches.

PAR RECEIVER

The PAR receiver units have been programmed to the ID numbers that are indicated on the labels attached to the receiver's base. Twist the receiver's canister **clockwise** in order to remove it from the base.

8. **Observe correct battery polarity when installing and changing batteries. Failure to do this can result in permanent damage to the receiver.**
9. Install the four battery cells in the battery holder, remember that the batteries negative (-) is installed at the spring end of the holder, and the positive (+) is to the red wire (top) of the holder.
10. The receiver was shipped with the "test/run" jumper in the "test" mode, (across the 2 pins) and with the fuse connected. See Figure 4)

Note: the receivers latched output is available at the terminal strip, located at the bottom of the receivers control board. The strip is labeled NO, COM, and NC. Do not exceed 30 V ac, or 0.5 Amp load. If the load exceeds these limits, use the receivers outputs, to switch an external load switching relay.

11. To actuate the output manually, use the manual push button switch located on the control board. The on/off indicator will blink when the output has been turned on (latched), and stop blinking when the output is turned off (unlatched).
12. Manipulate the level switch to enable the PAT to send a signal to the PAR After a minute the on/off indicator on the PAR's control board will start to blink, and the output will latch on. Wait 30 seconds, to manipulate the level switch again, to cause the transmitter to send an off signal to the receiver.
13. After a minute, the receivers output will unlatch, and the on/off indicator on the control board, will stop blinking,
14. Place the receiver's "test/run" jumper, in the "run" mode (remove jumper), and re- install the receivers' canister.

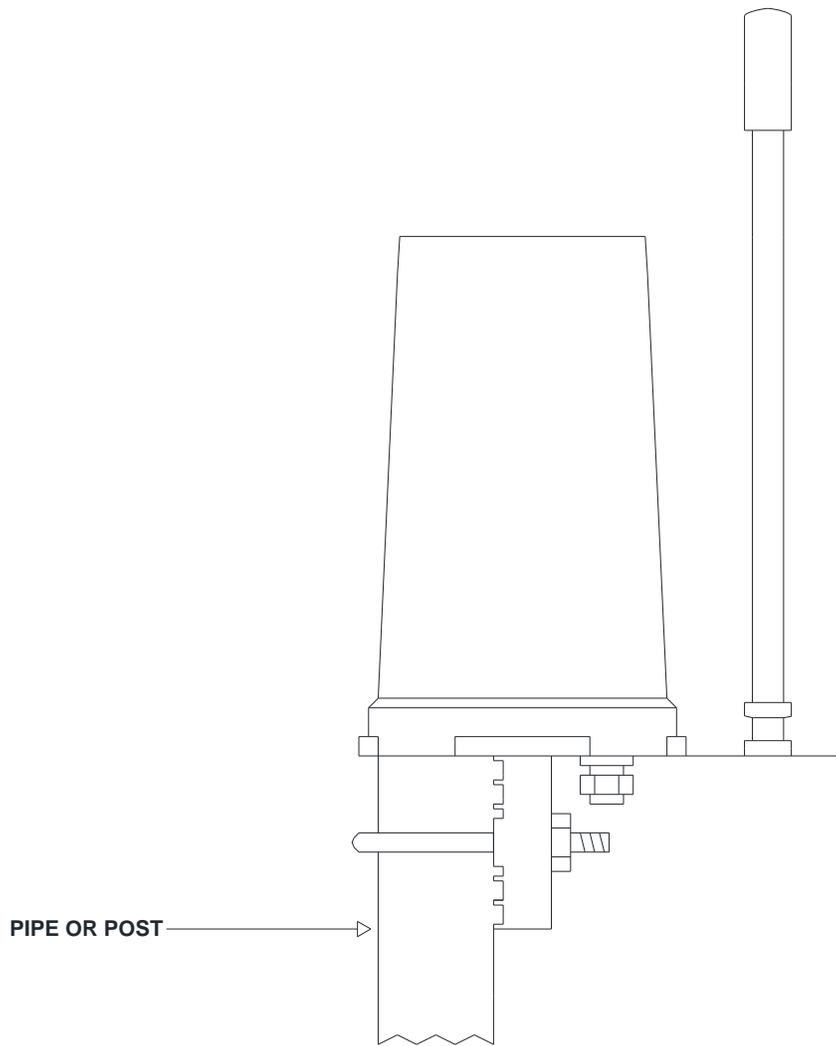
The transmitter, and the receiver, must both be synchronized, with the level switches. Use the receivers manual actuate switch to synchronize the system.

MAINTENANCE

1. Remove the receivers' canister.
2. Note the battery cells polarity, and remove the cells.
3. Install new battery cells, keeping the same polarity.
4. Move the "test/run" jumper to the 'test' mode position.
5. Use the manual switch to turn the output on, and check that the on/off indicator is blinking.
6. Use the manual actuate switch to turn the output off, and check that the on/off indicator is off.
7. Move the "test/run" jumper to the 'run' mode position.
8. Replace the receivers' canister.
9. The receiver is now ready to use again.

CAUTIONS

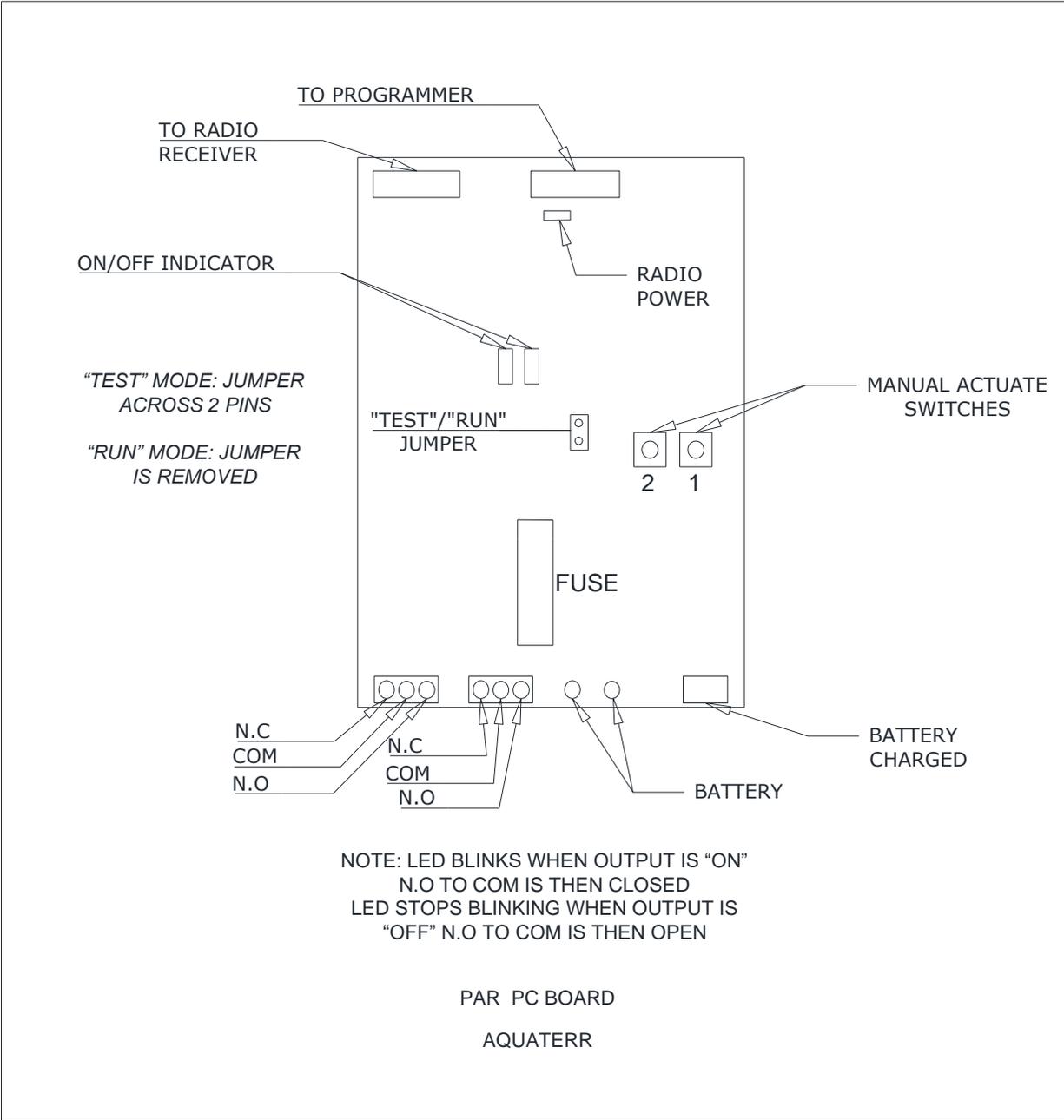
1. Observe the correct battery polarity when changing batteries.
2. Make certain to connect the PAT transmitter to the antenna, before connecting the battery, solar panel, or the AC power supply to a power outlet.
3. Mount the transmitters' antenna as far above, and away from the transmitters location, as the coaxial cable will allow.

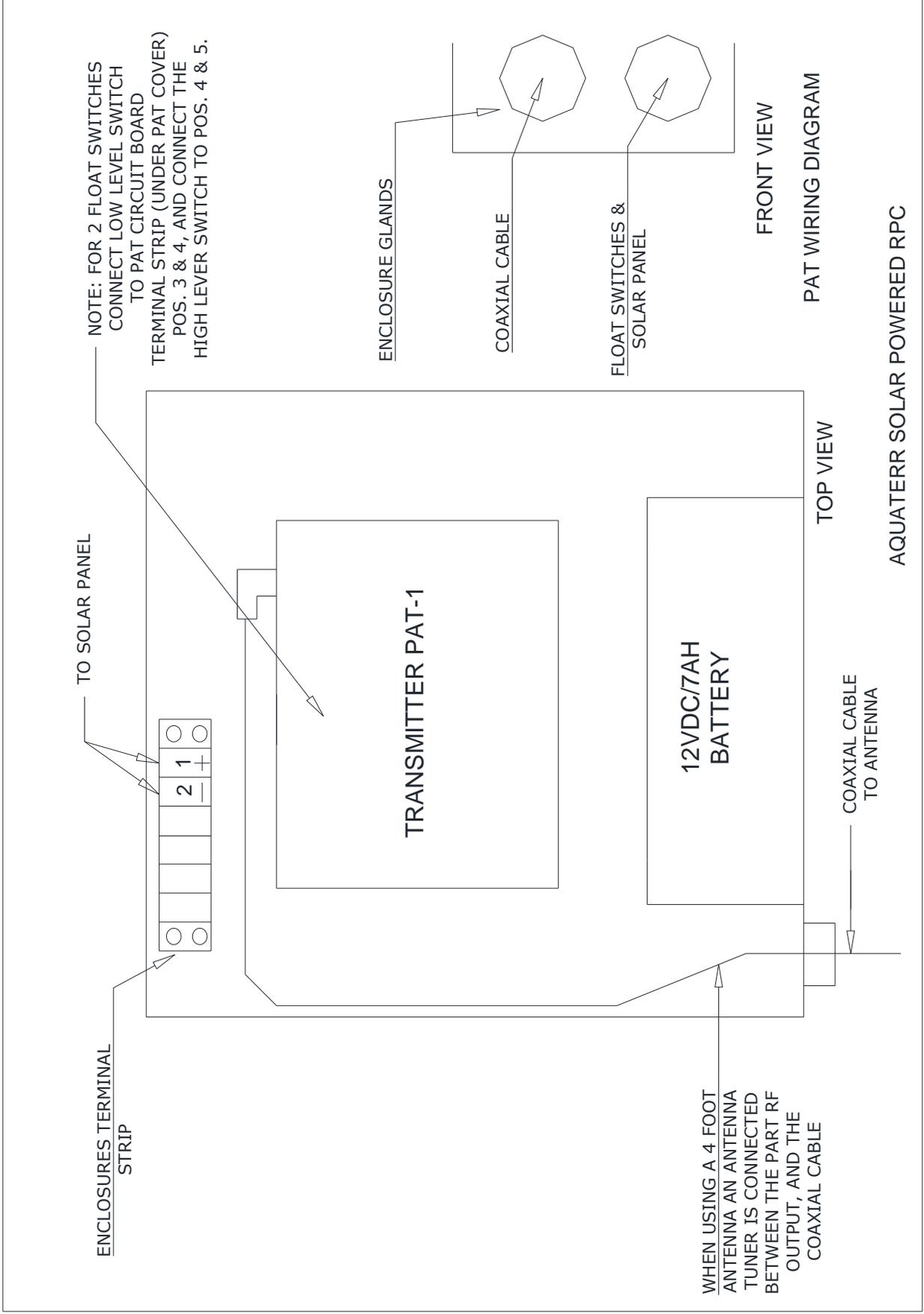


PIPE OR POST

VAR POLE MOUNT INSTALLATION

AQUATERR





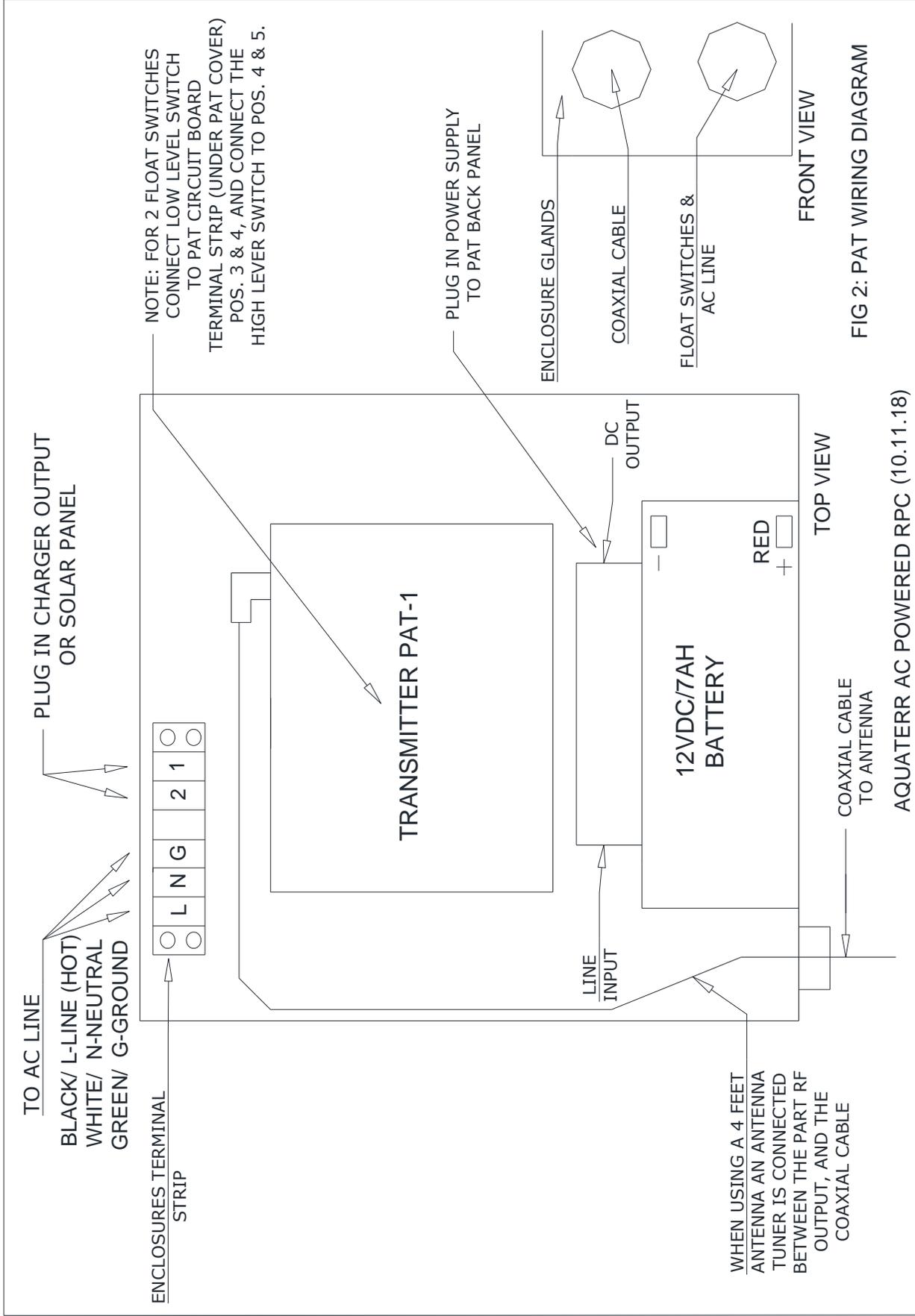


FIG 2: PAT WIRING DIAGRAM

AQUATERR AC POWERED RPC (10.11.18)