



INSTALATION PROCEDUREES FOR FTI REMOTE BATTERY KIT

November 4, 2009
Rev 4



ITEMS SUPPLIED IN KIT

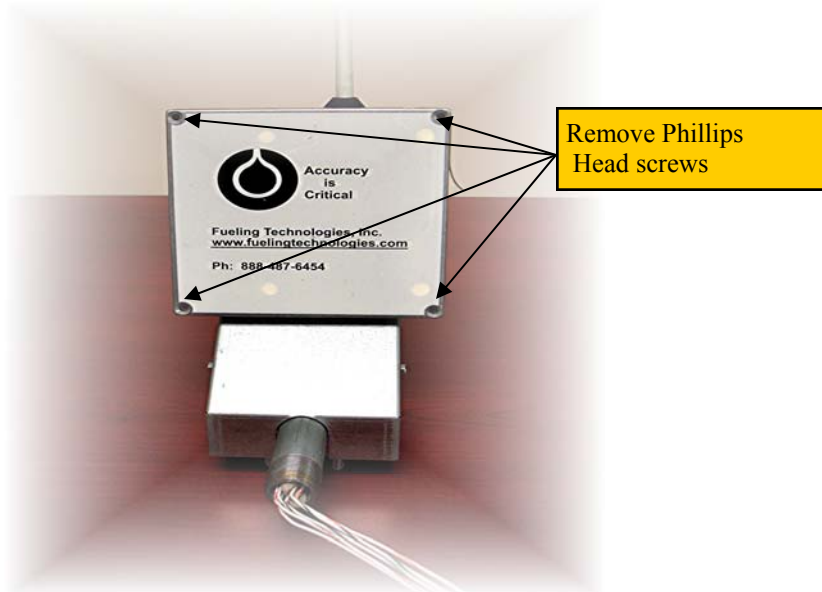
1. Remote Battery Box with Magnet
2. 50' of Remote Battery Cable looped at one end with connector
3. 13 magnets with eye bolts
4. 30 zip ties
5. Anti-static bag

TOOLS NEEDED

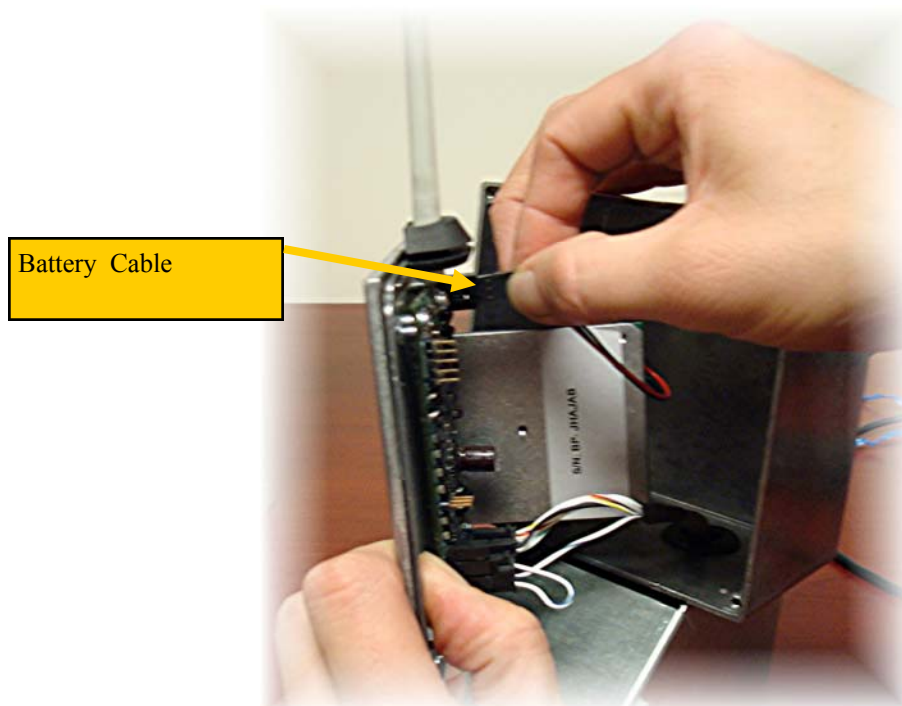
1. MEANS FOR ACCESSING FTI TANK SEND UNIT ON TOP OF TANK SAFELY
I.E. SECURE LADDER OR MAN LIFT
2. APPROVED SAFETY HARNESS SHOULD BE USED.
3. PHILLIPS # 2 SCREW DRIVER
4. WIRE CUTTERS/STRIPPERS
5. SMALL FLAT HEAD SCREWDRIVER

INSTALLATION PROCEDURES

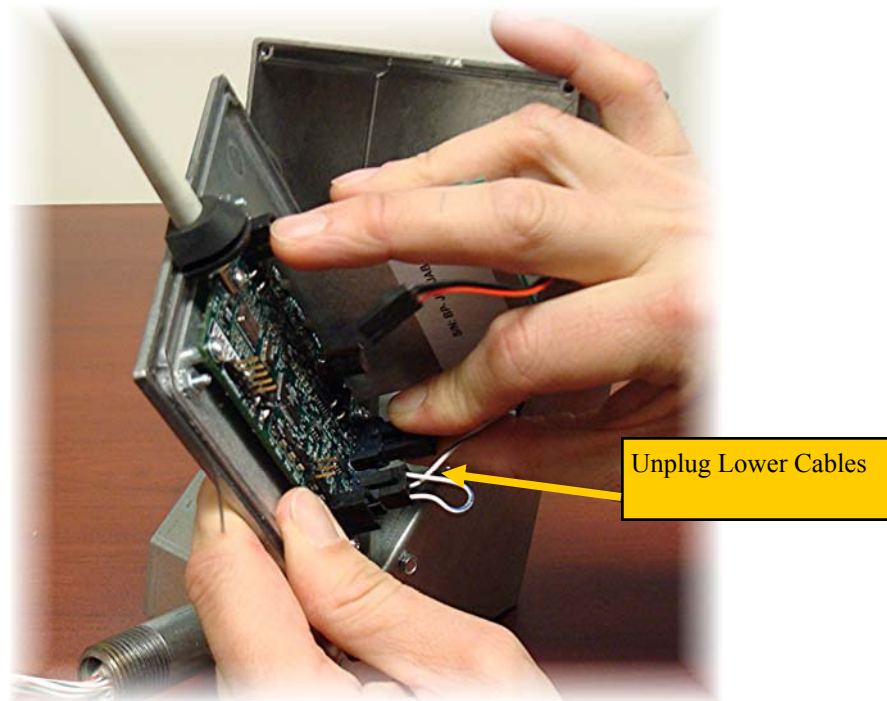
1. Bring to the top of the tank the new Remote Battery cable supplied with kit.
2. After reaching the FTI Tank Send Unit (TSU) remove the four Phillips head screws securing the face plate to the box.



3. Carefully pull the face plate back releasing it from the box be careful not to damage the two cables from the tank, and unplug battery cable.



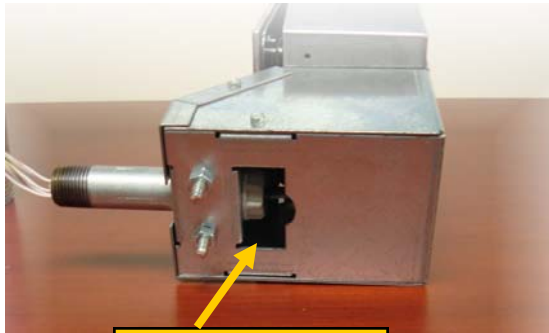
4. Unplug lower cables from TSU board.



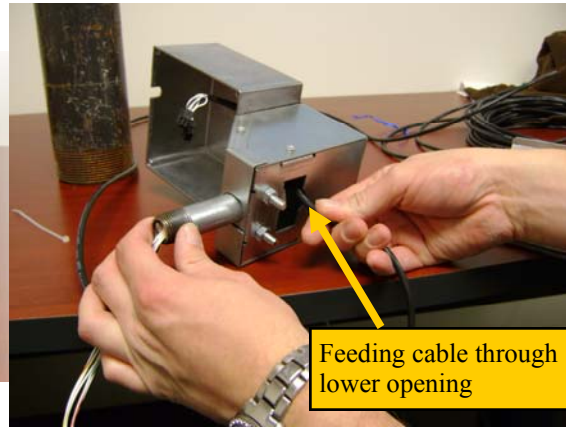
5. Remove the battery pack from its mounting plate and secure in anti-static bag.



6. Take the end of the supplied Remote Battery Cable that is pre-looped and has the battery plug and feed the cable into the box through the opening in the bottom of the mounting box and then feed the cable through the grommet in the bottom of the TSU Box being careful not to damage the connector or the other cables.



Lower Opening

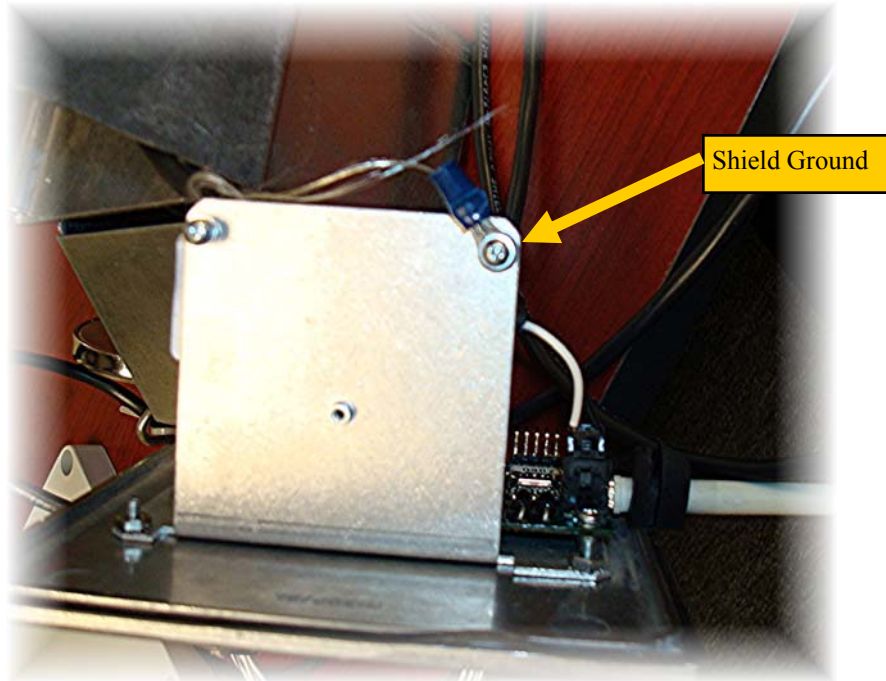


Feeding cable through lower opening



New Remote Battery Cable In Box

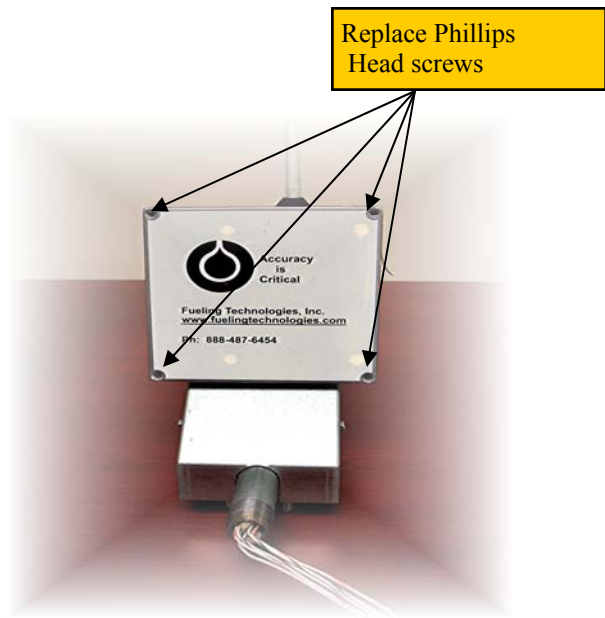
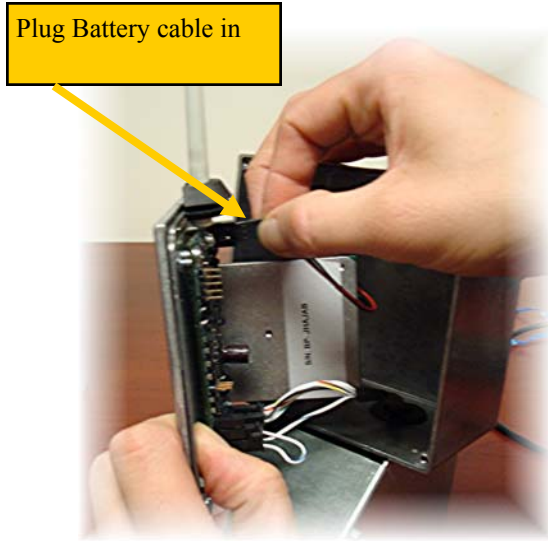
7. Attach the shield ground to the screw terminal previously used to mount the battery pack.



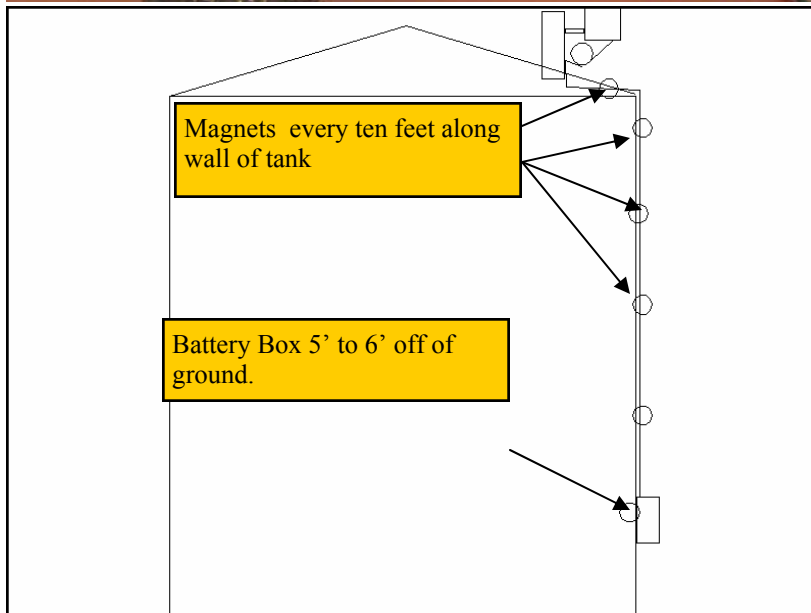
8. Plug lower connectors into the TSU Board.



9. Then plug new Remote Battery Cable into TSU Board and secure face plate to box.

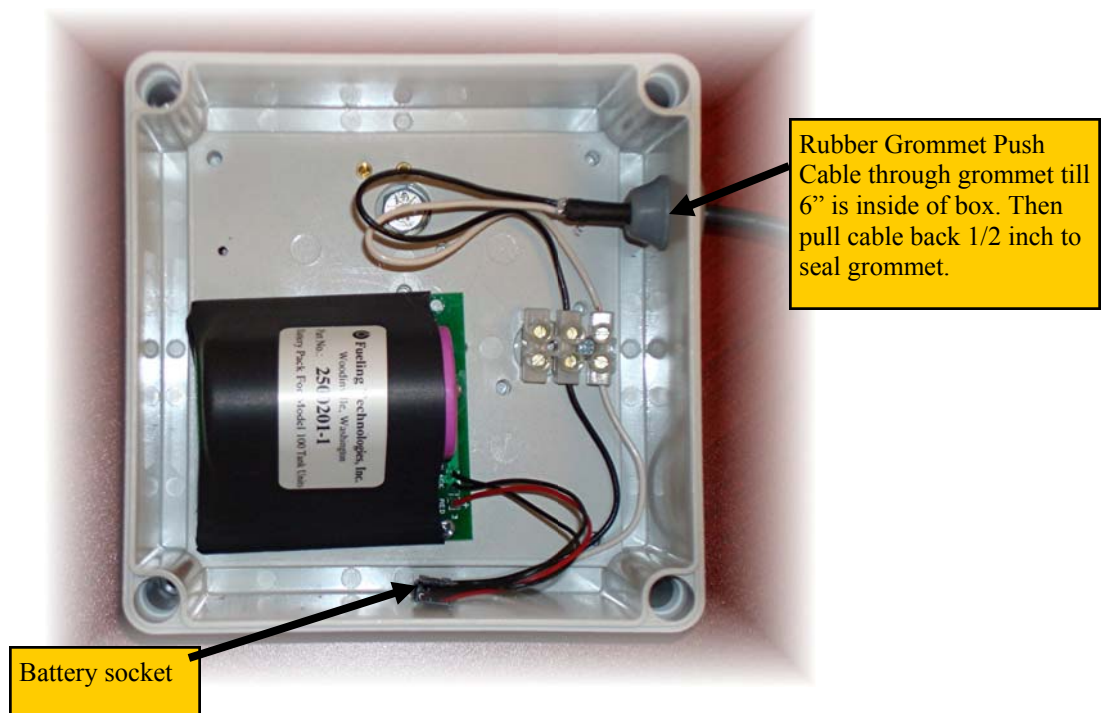


- Secure the pre-looped portion of the cable to the 1/2 inch conduit attached to the pipe Tee, and place the first magnet along the cable onto the pipe riser. Then proceed to place the magnets along the cable across the roof and then down the side of the tank. Magnets are placed every ten feet and secured to the cable with two zip ties.



- Place the New Remote Battery Box approximately 5 to 6 feet above the ground securing with the magnet on the back of the box .

11. Measure the cable and cut to length allowing enough cable to form a loop at the bottom of the box before entering the box and leaving six inches of cable to be inserted into the grommet at the bottom of the box.
12. Remove the cover on the Remote Battery Box.
13. Install battery pack removed from Tank Send Unit and mount and secure in Remote box as shown below using supplied screw.
14. Insert the cable through the grommet until the six inches of cable is all the way in the box. Then pull the cable back just enough to grommet pulls back and seals.



15. Strip the vinyl coating off the cable to expose the two wires White and Black.
 16. Strip 1/2 inch of insulation off of each wire.
- CAUTION:** JUST TOUCHING THE WIRES INCORRECTLY TO THE TERMINAL BLOCK WILL BLOW THE INTRINSICALLY SAFE FUSE ON THE BOARD RESULTING IN A NEW BATTERY PACK HAVING TO BE INSTALLED.
17. Insert the white wire in the terminal strip that corresponds to the white wire on the battery socket and tighten the terminal screw.

18. Insert the black wire in the terminal strip that corresponds to the black wire on the battery socket and tighten the terminal screw.
19. Plug Battery into battery socket.
20. NOTE THE TIME THAT YOU SECURED THE WIRES.
21. Replace the cover on the Remote Battery Box.
22. Secure the cable and loop to side of tank with a magnet and secure the cable to the magnet with cable ties.
23. Using the Host program access the MCU and download the data file and verify that a reading was sent at the time you noted when securing the wires in the box.
24. If no reading occurred using a volt meter check the battery voltage at the terminal block. If there is no reading the most likely cause is the wires were connected incorrectly and the intrinsically safe fuse has blown. Replace the battery pack after verifying the correct hook up of the wires.
25. Proceed to other tanks and follow instructions.