

TurboStart 16 Volt QPET Wet Battery Charger Modification.

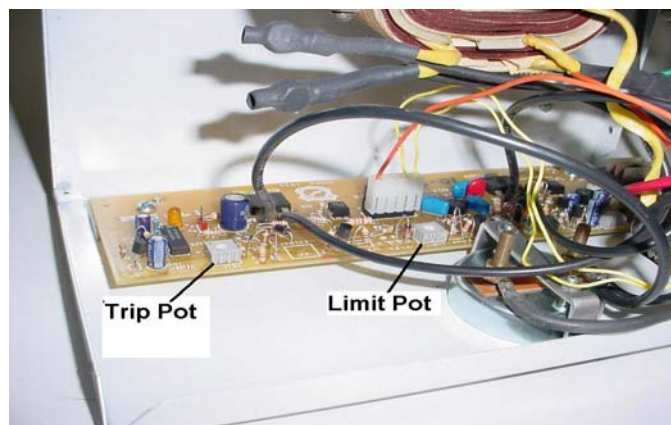
This will convert the following chargers for use with TurboStart AGM Series non-spillable 16 Volt Racing Batteries.

15 AMP OR 25 AMP WITH EITHER THE BLUE OR BLACK CASE



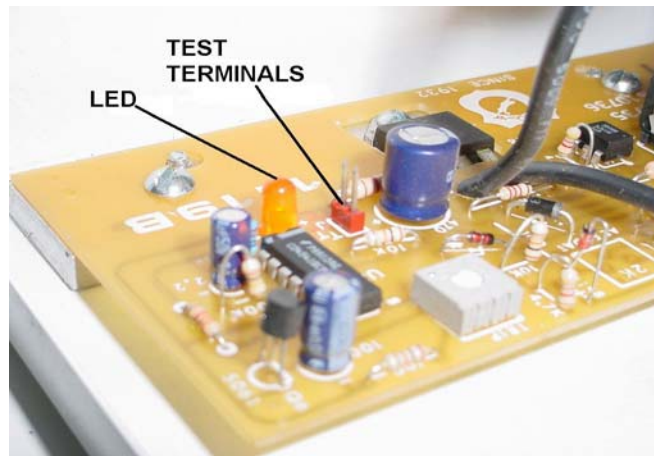
Instructions should be read entirely before starting the modification. If the adjustments are not performed properly permanent damage to the charger may result. During this procedure care must be taken to ensure that any of the electrical components are not touched with either your hand or any tools. This may result in damage to the charger or electrical shock to yourself. If you would like additional help or information, please contact the Tech Department at 1-877-324-9300.

- 1. Disconnect the charger and unplug from the wall outlet.**
- 2. Remove 4 screws from each side of the charger.**
- 3. Lift the cover off of the charger.**
- 4. Locate the gray colored Trip and Limit potentiometers on the circuit board against the face of the unit inside of the charger**



- 5. Using a short straight screwdriver adjust the Trip potentiometer fully clockwise. Trip is written on the board above the pot. See the diagram above.**

6. Adjust the Limit potentiometer fully counter-clockwise. Limit is written on the board above the pot. See the diagram above.
7. Connect the charger to a fully charged 16 volt Battery.
8. Plug the charger into a 110 volt outlet and turn the charger on.
9. Connect a voltmeter set to read dc voltage to the battery charger leads on the battery.
10. Turn the limit pot *very slowly* in the clockwise direction until the voltage reads 18.60 +/- .02 volts.
11. Turn the trip pot *very slowly* in the counter-clockwise direction until the orange LED which is next to the red test terminals on the interior circuit board turns on. The light will stay on once the proper setting has been reached. Do not continue to turn the pot after the light comes on.



12. Turn the limit pot again *very slowly* in the clockwise direction so that the voltage now reads 19.20 +/- .02 volts.
13. Place a screwdriver between the test terminals on the circuit board shown above for approximately 1 minute. Having the terminals shorted together causes the charger to enter the float mode. The end cycle light will illuminate on the front of the charger and the voltage will slowly drop to approximately 17.5 volts.
14. Turn off the charger and disconnect it from the battery and the outlet.
15. Replace the cover and re-install the 4 screws in each side.
16. Note: Do not adjust the current control potentiometer. The current limit pot looks the same as the trip and limit pots but is located on the opposite side of the interior circuit board. The current limit does not need to be changed because it is the same regardless if the battery is AGM or flooded. All measurements are taken with the multi-meter connected to the battery charger and battery terminals.