1. Introduction

Congratulations for purchasing TME’s Xtrema Lithium (Li) Charger – Wattmeter. You are now the owner of one of the most expandable, high end Li charging and monitoring system available. The Xtrema combines the power of a high end Li charger with the versatility of a high end Wattmeter. It also features a very useful temperature probe for monitoring your batteries and motor as well as an over sized LCD display that shows all important data simultaneously. And the Xtrema has an expansion port that allows for future software updates and plug in features.

Most people find that they can easily operate the Xtrema with no manual or with very little information. However we recommend that you take the time to read this manual to discover features, tips, and options that may not be immediately obvious.

For example the SETUP MENU allows you to customize your Xtrema’s volts per cell, safety timer and temperature cutoff. You can also tailor the sounds the Xtrema makes from No Sound (library mode), Beep Once, or the default Remind Me (nag me) mode.

In this manual the following conventions are used.

WARNING!

This signifies that the information presented is of concern for safety. Loss of life or property may result if these warnings are not observed.

TIP!

This signifies that the information presented is a tip that will help you obtain extra enjoyment or utility of the Xtrema

Note:

This signifies that the information presented is a note that will help you understand a particular feature of the Xtrema.
2. PRECAUTIONS – WARNING!

- DO NOT CHARGE Lithium Polymer / ION batteries unattended. Ever!
- USE POLARIZED CONNECTORS on the motor and battery to prevent reversal of leads. Red to (+) and black to (-) Although we have circuitry to protect the Xtrema, in certain situations serious damage to Motor, speed controller, battery and the Xtrema may result. Make sure that your connectors can handle the maximum amps your motor can draw. The Xtrema can safely measure 50 amps continuous and up to 100 amps for short durations when used as a Wattmeter.
- DO NOT CHARGE inside a vehicle
- DO NOT CHARGE in direct sunlight
- DO NOT CHARGE when ambient temperature is very HIGH or LOW.
- DO NOT CHARGE when Li battery pack is hot or near flames
- DO NOT USE an Automobile battery charger for the input power source. Use a regulated 12 to 13.8V DC supply or a 12 Volt Lead Acid battery capable of providing up to 20 amps when charging at the maximum charge capacity. Your supply must maintain a minimum of 10.5V to a max of 15V to operate.
- DO NOT CONNECT MULTIPLE EXTERNAL POWER SUPPLIES, METERS ETC. WITH COMMON GROUNDS. All three (-) Negative leads on the Xtrema are at slightly different ground potentials. Make sure if you connect external equipment that they are electrically isolated from each other.
- Xtrema CASE may get HOT when charging at high current.
3. GENERAL OPERATION

The Xtrema's menu system was designed to be simple and intuitive. When you first connect the Xtrema to the input power it will display the welcome screen for a few seconds before going to the main menu. The welcome screen will display the firmware and hardware revision numbers which should correspond to this manual.

When in the main menu a blinking square box is used to draw your attention to what the current selection or the choice that is to be made. All operation is via a single joystick that can be slightly moved in four directions. In all cases operation is simple as noted below.

- Up or down buttons on the joystick select menu or value options
- Left button goes back to previous selection, right button accepts option and goes to next step

Note: Pressing the joystick button to the Left while in the Main Menu will force the Xtrema to shut off the display and go into a standby/off state. Momentarily pressing the joystick again in any direction will restart the Xtrema back to normal operation.

4. CHARGING a Lithium (Li) Battery

Connect the Xtrema to charge a battery

1. Connect the red (+) and black (-) Xtrema inputs directly to a 12Volt automobile battery or regulated power supply. Be careful to observe polarity.

   Note: Make sure that the input voltage does not go below 10.5 Volts while charging or the Xtrema will stop the charging process. Also charging will terminate if the voltage is above 15.0 Volts. When either of these conditions occur the charge will terminate with a BAD INPT message in the upper right status area of the display.

   Note: Upon power up you will see the Xtrema welcome screen. This will display the firmware and hardware revision and then beep. You will also notice that the fan will momentarily come on and then shut off performing a power up fan test.

   WARNING! DO NOT CONTINUE USING THE CHARGER if you do NOT hear or feel the fan come on during power up. Also if you hear any unusual fan noise such as a bad bearing, please return the unit for service. For long fan life, the fan is designed to only come on during high power charging. The cooling it provides is an integral part of the Xtrema's power to charge large packs.

2. Connect the Li battery to the connector labeled “BATTERY”. CAUTION: Insure that there is nothing connected to the “MOTOR” connector. The battery voltage will always appear there regardless of mode.

   WARNING! USE POLARIZED CONNECTORS on the motor and battery to prevent reversal of leads. Although we have circuitry to protect the Xtrema in case of reverse battery, in certain situations serious damage to Motor, speed controller, battery and the Xtrema
may result if polarity is not observed. Therefore please use polarized connectors that match you largest battery connector and use polarized adapters for smaller packs.

3. You may optionally connect the temperature probe to the battery using the hook and loop strap. We recommend always using the temperature probe for maximum safety during charge.

**TIP! FOR MAXIMUM EFFECTIVENESS** you will want to set the temperature cutoff to a few degrees above the starting pack temperature. The factory default is 104°F. (To do this see the instructions under the SETUP MENU.) For example if the pack temperature is 80°F then you may want to set the temperature cutoff to 85°F. (You can determine the pack temperature by attaching the thermometer to the battery with the supplied hook/loop band and temporarily entering the Wattmeter function.)

Lithium batteries are amazingly efficient during a charge and rarely go up in temperature at all when charging properly.

**WARNING!** This feature is not designed to save your batteries. If a pack starts to overheat, it is an early sign that the pack has already been damaged or that you have programmed the current too high. Shutting off the Xtrema early (as a result of an overheated battery) is designed to greatly minimize the probability of smoking or igniting the battery. **UNDER NO CIRCUMSTANCES** should you rely on this feature in lieu of being close by while charging batteries.

**NEVER CHARGE** Lithium Polymer / ION batteries unattended. Ever!

Set to Li Charge mode

4. “Li Charger” should be selected on the display. (If not push the up ▲ or down ▼ buttons on the joystick until it is selected.) Press the joystick to the right ► to enter Li Charger mode.

**Xtrema Main Menu:**

```
| o | Li Charger |
| f | Wattmeter |
| f | setup |
```

Select the cell count and milliamps

```
| Slct ▲ 2 | 750 |
| Batt ▼ 3cell 2000mA |
| Mem: ▼ 5 5000 |
| ▼ 10 3500 |
```
5. You will see four battery pack configurations that can be customized and remembered by the Xtrema. These can represent four of your most common pack configuration. Use the up ▲ or down ▼ buttons on the joystick to pick the pack you want. If none of them match, then just pick any one of the four you want. Your setting will be automatically remembered the next time you enter this menu. Press the right ► button when you have made your selection.

Note: If at first you do not see any pack like the ones you own, simply pick any one of the batteries. You are ALWAYS given the option to change that settings of the memorized location and the current pack.

Update Memory 02

3 cell 2000 mA

6. You now have an opportunity to change the cell count. If the cell count is correct then simply press the right ► button to continue. If not, you can change the cell count at this point by using the up ▲ or down ▼ button until the cell count you want is displayed. Notice that holding the button down will rapidly advance through the numbers. When the cell count you want is displayed, press the right ► button to continue.

Note: Unlike some other chargers the Xtrema does not require you to know the nominal voltage of your pack. Most people refer to their Li Po batteries by the cell count (series count) The nominal voltage will be calculated and presented to you for verification later.

Note: The memory location will only be updated if you actually proceed to charge the pack so that the next time you go to charge, the Xtrema has remembered the last pack you charged. If you hit the left ◄ button at this point you will go back to step 5 and the cell value will revert to the original value.

Update Memory 02

3 cell 2000 mA

7. You now have an opportunity to change the milliamps. For most Li batteries this is normally set to 1C or basically the milliamp rating of the battery or less. If the milliamp charge rate is correct then simply press the right ► button to continue. If not you can change the milliamps at this point by using the up ▲ or down ▼ buttons until the milliamps you want is displayed. Notice that holding the button up or down will rapidly advance through the numbers. When the milliamps you want is displayed press the right ► button to continue.

Note: Unlike some other chargers the Xtrema does not require you to convert from amps to milliamp or vise versa. Your battery packs are marked in milliamp so the Xtrema is set in milliamp reducing the chance of conversion error.
WARNING! Make sure you set the charge rate to ( or below ) the recommended milliamps suggested by the manufacturer. EXCEEDING the recommended settings may cause your packs to overheat and produce smoke or fire. Typically the number of milliamps of charge current is equal to the number of milliamp hours of capacity of the battery. This is also known as charging the battery at 1C.

For example: If your battery is labeled as a 2500 mah battery then you typically charge at a 2500 milliamp rate. You may also charge below that amount however your charge time will increase and the max time in the SETUP MENU may need to be increased from the default of 120 minutes. (see section on SETUP MENU)

Start the Charge

11.10V 1200mA 03cell  
4.20V/C 104F 120min  
Are You Sure?  
'NO CHARGE? YES'  

8. The Xtrema will give you one last chance to abort before charging. It will calculate the Li voltage based on cell count and display the charge current that you have selected.

WARNING! DO NOT MISS THIS LAST OPPORTUNITY TO CHECK YOUR SETTINGS. Wrong settings may cause Li batteries to burst into FLAMES!

If all is OK , then start the charge by pressing the right ▶ button to continue. You may abort the charge at any time by pressing any key ▲▼ ◄►. When the charge has terminated, either by a fail mode, user abort, or successful completion, the display will freeze with the terminating values and the STATUS code will appear at the top right of the LCD. You may hit any key ▲▼ ◄► to go back to the Update Memory display. You may then start another charge cycle (starting at step 6) or you may press the left◄ button to return to the main menu. In an emergency you may rapidly pull out the battery to stop a charge. However, this is NOT a recommended way to abort the charge.

Note: The Xtrema in the screen above, shows the pack voltage as well as the milliamps and cell count you have programmed. Up until now you have been programming the Xtrema in cell count because quite frankly most people remember their 5 cell battery pack as a 5 cell pack and not an 18.5 volt pack. However your pack may be labeled as an 18.5 volt pack so here is a good chance to double check the pack.

Three other pieces of information are also shown in this display.

The volts per cell determines the maximum capacity you put into the battery. The default is 4.2 volts per cell. This is typically the maximum charge that is recommended by Li battery manufacturers. The Xtrema allows you to alter this rate in the SETUP MENU. You can make this number smaller to provide a more conservative charge. Charging conservatively prolongs the life of the battery at the expense of reducing the run time per flight by a small percent.

The max temperature cutoff is also shown in this final display before charging. This too can be adjusted in the SETUP MENU. The default is 104°F but this temperature is best adjusted to be only a few degrees above the starting battery temperature.

The max safety timer is also shown in this final display before charging. The default is 120
minutes but you can and should make this time longer in case you charge your battery at a conservative CURRENT setting. For example charging a 2000 mah battery at 1000 ma will take twice as long to charge than if you were charging it at 2000 ma. This is a very conservative charge rate that should put a minimal stress on the battery while charging however you may want to consider changing the max safety timer to 240 minutes to allow the extra charge time.

Note: After the charging has started, if you hit any key to abort the ABORTED! Status will show and the unit will stop charging. Hit any key again to go to menu.

Note: After the charge cycle has ended the Xtrema will beep (if not silenced) to signify the end of charge. The beeping will continue until you hit the joystick button in any direction. This will shut off the beeping but will leave the display intact so that you can observe the terminating values of the recent charge. You may also stop the beeping by simply removing the battery from the charger. The display will show the final result until you push the joystick as described above.

(Remind me beep mode is assumed above)

Li03 cell Charg CC
In:13.80V Bat: 11.12V
Tmp: 72F Cur: 1200mA
00:30:49 C: 685mah

Note: In order to extend the life of the fan, the Xtrema is programmed to turn the FAN ON only when charging a battery with 50 watts or more power. Therefore you may not hear the fan running when charging small batteries.
5. Using the Wattmeter

Connect the Xtrema in between battery and motor

Connect the red (+) and black (-) Xtrema directly to a 12Volt automobile battery or regulated power supply. Be careful to observe polarity.

Connect the Li battery to the connector labeled “BATTERY”

Connect your speed controller and motor to the connector labeled “MOTOR”

You may optionally connect the temperature probe to the battery or your motor using the hook and loop strap for monitoring purposes.

Set to Wattmeter mode

```
Xtrema Main Menu:
    0  Li Charger
    f  Wattmeter
    f   . . setup.
```

“Wattmeter” should be selected on the display. (If not push the up ▲ or down ▼ buttons on the joystick until it is selected.) Press the joystick to the right ► to enter Wattmeter mode.

```
2061.9 Watts 2.76 Hp
36.80 Volts
56.03 Amps 83F
Exit 00:08:17 More
```

You are now able to measure Watts, amps, volts, temperature and even horsepower. Pressing the right ► button will allow you to toggle into the [STORED] mode which will display peak amps, minimum voltage, max temperature as well as the calculated watts and horsepower.

```
2030.1 Watts 2.72 Hp
35.38 Volts minimum
57.88 Amps Peak 89F
Exit [STORED] More
```

Press the left ◀ button to return to the main menu.

Note: For “Volts minimum” to display properly you should connect the battery to the Xtrema before you enter the Wattmeter mode. Otherwise the minimum voltage displayed will be zero 0.00. If you have already entered the Wattmeter mode simply push the joystick ◀ left once then ► right to temporarily go to the main menu and then re enter the Wattmeter mode.

Also note that at any time you want to reset the minimum and peak settings you may simply go back to the main menu temporarily as described above.
6. SETUP MENU

The setup menu allows you to customize the internal setting of the Xtrema. You enter the setup menu from the main menu by selecting ..setup.. and pressing the joystick to the ► right.

Xtrema Main Menu:
- Li Charger
- Wattmeter
- ..setup..

Upon entering the setup menu you will see three options. The first is Li Setup which allows you to change charger settings such as volts per cell, the safety timer and the temperature cutoff. The second option Beep Options lets you set up how the Xtrema makes sounds. The third option Set Defaults merely restores all the factory default options.

Li Setup

Select Li SETUP from the setup menu and press the joystick to the ► right.

Choose one of the following by moving the up ▲ or down ▼ buttons and press the joystick to the ► right.

Volts / Cell

This setup menu allows you to change the maximum voltage that the Xtrema stops charging. You can program the Xtrema to charge from 3.7 volts / cell to 4.20 volts / cell.

Choose the desired voltage by moving the up ▲ or down ▼ buttons and press the joystick to the ► right when the displayed value is what you desire. You may abort the change by hitting the joystick ◄ left.

The default is 4.20 v/c and this provides you with the maximum capacity of common Lithium Polymer cells. The lower limit 3.7 volts is used for what is called a “storage charge”. This allows you to charge your batteries to approximately 50% full charge and is the factory recommended method for storing Li batteries long term.

Example: For a 3 cell pack 4.20 volts/cell equates to 3 X 4.2V or 12.60 volts max.
          or For a 3 cell pack 3.70 volts/cell equates to 3 X 3.7V or 11.10 volts max.

The reason for all the in between values is that some manufacturers of Lithium Ion or polymer cells may suggest a more conservative charge voltage. Or you may want to charge the batteries more conservatively to extend their life. You now have the option of charging at 4.15, 4.10, 4.05 or 4.00 volts per cell. The lower in voltage you chose, the earlier the Xtrema will limit charging giving you slightly less capacity per charge. The reason you may want to do this is to extend the cycle life of your batteries.

Choosing 4.15 volts/cell may only reduce the capacity of your charge by about 5 percent but it will extend the useful life of your pack by many cycles.

Note: If you have reduced the volts/cell value and you try to charge batteries previously charged at a higher volts/cell, they will cause the Xtrema to display a HI BAT V error message. Simply discharge the battery below the desired max voltage.
Safety Timer

This setup menu allows you to change the maximum amount of time to allow for charging. The purpose is to shut down the Xtrema when a battery is not charged in the amount of time expected. This may occur if a shorted cell prevents the pack voltage from climbing up to the expected voltage.

The default time is set to 120 minutes and this should be sufficient for charging at a 1C rate. (Ex. Charging your 1000 mah battery at 1000 ma. Etc.) If you chose to charge at a lower rate, then you may want to adjust this timer for a longer time period. The timer is adjustable from 0 minutes to 990 minutes in 10 minute increments. )

TIP! Zero 0 minutes effectively disables the charger and may be used in situations where you may want to disarm the Xtrema from charging.

Choose the desired minutes by moving the up ▲ or down ▼ buttons and press the joystick to the ► right when the displayed value is what you desire. You may abort the charge by hitting the joystick ◄ left.

Temp Cutoff

This setup menu allows you to change the maximum temperature that will abort the charge cycle. This feature is not designed to save your battery since overheating during charge is a sign of a damaged cell. However this feature may prevent reaching battery temperatures that cause combustion and hopefully preventing a Lithium battery fire.

Choose the desired temperature by moving the up ▲ or down ▼ buttons and press the joystick to the ► right when the displayed value is what you desire. You may abort the change by hitting the joystick ◄ left.

The default temperature is set to 104°F. The temperature is adjustable from 60°F to 130°F. FOR MAXIMUM EFFECTIVENESS you will want to set the temperature cutoff to a few degrees above the starting pack temperature. For example if the pack temperature is 80°F then you may want to set the temperature cutoff to 85°F. (You can determine the pack temperature by attaching the thermometer to the battery with the supplied hook/loop band and temporarily entering the Wattmeter function.)

Lithium batteries are amazingly efficient during a charge and rarely go up in temperature at all when charging properly.

WARNING! This feature is not designed to save your batteries. If a pack starts to overheat, it is an early sign that the pack has already been damaged or that you have programmed the current too high. Shutting off the Xtrema early (as a result of an overheated battery) is designed to greatly minimize the probability of smoking or igniting the battery. UNDER NO CIRCUMSTANCES should you rely on this feature in lieu of being close by while charging batteries.

NEVER CHARGE Lithium Polymer / ION batteries unattended. Ever!

Beep Options

Select Beep Options from the setup menu and press the joystick to the ► right.

Choose one of the following by moving the up ▲ or down ▼ buttons and press the joystick to the ► right.

Only one of the beep options is selected at a time. The option will automatically go back to the previously selected option. This feature affects sounds that occur at all Status/Error messages except for CHARGE CC and CHARGE CV which have no sounds associated with their states.
No Sound
Select this option if you prefer that the Xtrema make no sounds at all. All Error and Status messages will still be displayed on the LCD screen however they will be silent.

Beep Once
Select this option if you prefer that the Xtrema alert you of problems or completion only once. All Error and Status messages will remain displayed on the LCD screen until you exit the screen.

Remind Me (default)
Select this option if you prefer that the Xtrema alert you of problems or completion only repeating every 15 seconds. All Error and Status messages will remain displayed on the LCD screen until you exit the screen.

Set Defaults
Select Set Defaults from the setup menu and press the joystick to the right.

This option will instantly set the Xtrema back to the factory default options.

The defaults are:

- 4.20 Volts / cell
- 120 minute (safety timer)
- 104°F (max temperature)
- Remind Me (beep mode)
7. Specifications

CHARGER SPECIFICATIONS:

# Cells: 1-10 cells
Input Voltage: 10.5V - 15V DC @ up to 20 AMPS
Input Connectors: Super heavy duty Alligator Clips with 3 ft. cord.
Case Size: 6.25 x 3.25 x 2.25 in. (159 x 83 x 57 mm.)
Weight: 22 oz. (624 grams)
Charger Output Connections: 14 Gauge Fine Strand Silicon Wire
Volts per Cell: 3.70V (storage charge)- 4.20 volts in .05 volt steps
Charge Rate: 50mA - 8000mA in 50 mA steps (4000mA max @ 10 cells)
Battery Types: Lithium Ion, Lithium Polymer
Safety Timer: 10 - 990 minutes (120 default)
Fan: On only when needed for longer life.
Safety Temperature Cutoff: 60°F - 130°F (104°F default)
Display: 4 line X 20 character LCD display
Audible Alarms: Piezo Speaker alarms15 seconds, beep once or disable

WATTMETER SPECIFICATIONS

Input Supply Voltage: 6.5V - 15V DC < 40 ma
Wattmeter Output Connections: 14 Gauge Fine Strand Silicon Wire
Voltage Measurement: 0 - 60 V, resolution 0.01 V
Current Measurement: 0 - 100 A peak, 50 A continuous, resolution 0.01 A
Power Measurement: 0 - 6000 W, resolution 0.1 W.
Horsepower Measurement: 0 - 8.0 HP resolution .01 HP
Temperature Measurement: up to 302°F (150°C)
8. ERROR/STATUS MESSAGES

**OPEN CKT**
This error message is displayed if the charge is interrupted by an open circuit to the battery. It is not recommended to stop the Xtrema from charging by disconnecting the battery. Use the abort procedure by hitting any key instead.

**MAX TIME**
This error message is displayed if the Xtrema has been charging longer than the Max Safety time setting of the Safety Timer. The default is set to 120 minutes but this can be modified from 0 to 990 minutes.

**MAX TEMP**
This error message is displayed if the Xtrema's temperature probe has measured greater than than the Max Temp Cutoff setting of the temp cutoff. The default is set to 104°F but can be modified from 60°F to 130°F.

**HI BAT V**
This error message is displayed if the Xtrema detects during the testing phase prior to charging that the battery to be charged voltage is higher than the cell count multiplied by the Volts per Cell setting in the SETUP MENU. Typically this may indicate that the cell count programmed into the Xtrema is lower than the actual pack. A low volts per cell setting will also cause the same fault.

**LO BAT V**
This error message is displayed if the Xtrema detects during the testing phase prior to charging that the battery to be charged voltage is lower the cell count multiplied by 3.0 volts per cell. Typically this may indicate that the cell count programmed into the Xtrema is lower than the actual pack.

**CHCK BAT**
This error message is displayed if the Xtrema detects, during the testing phase prior to charging, that the battery does not appear to be present or is connected backwards. Check your wiring and battery connections other causes may be an open pack.

**CHCK MOT**
This error message is displayed if the Xtrema detects, during the testing phase prior to charging, battery current going to the motor leads. Make sure your motor is disconnected and restart the charger.

**ABORTED!**
This error message is displayed if the charge is interrupted by hitting the joystick in any direction while charging. This is the preferred method to stop a charge cycle.

**BAD INPT**
This error message is displayed if the charge is interrupted by the input voltage (12 volt battery or power supply) has either dropped below 10.5 volts or gone above 15 Volts. The display will indicate the last read voltage to help you determine the problem.

**Charg CC**
This status message indicates that the charger has completed the initial testing phase and has entered the constant current charging phase. It will continue to remain in this state until the battery voltage has risen to the specified volts per cell setting in the setup menu. This message makes no sound.

**Charg CV**
This status message indicates that the charger has completed the initial constant current charging phase and has entered the constant voltage charging phase. It will continue to remain in this state until the battery current drops below 1/10 of the initial constant current charge rate. This message makes no sound.

**COMPLETE**
This status message indicates that the charger has completed the complete charging phase and has successfully charged your battery. It will continue to remain in this state until the joystick button is pushed twice. The first push silences the unit and the second push returns the charger to the selection menu.
9. Warranty

LIMITED WARRANTY

The Xtrema is warranted to the original purchaser for 90 days from the date of purchase to be free from defects in material and workmanship. During this period Tejera Microsystems Engineering Inc. will repair or replace, at their discretion, the defective unit. This warranty does not apply to any unit which has been abused, improperly installed, improperly used, used for purposes other than those purposes for which the unit was designed, handled roughly, damaged in shipment, nor to any unit which has been altered or repaired by unauthorized personnel. Under no circumstances will the buyer be entitled to incidental or consequential damages. This Limited Warranty gives you specific legal rights, you may also have other rights which vary from state to state.

WARRANTY PROCEDURE:

A minimum charge of $4.85 to cover shipping and handling is required on all returned units, and should be enclosed with the unit. Be sure to enclose your Bill of Sale as proof of purchase with the unit. (A legible photocopy is acceptable.) In the event that the work is not covered under the warranty, TME will attempt to contact the owner unless special instructions or a credit card number are received with the unit.

FREE LIFETIME UPDATES:

The Xtrema carries free firmware updates for the life of the product. For your convenience, downloadable updates will be made available online at www.theXtrema.com or www.TMEnet.com. Activate your warranty online to receive product updates and upgrades! Go to: www.TMEnet.com/register A special data cable will be required for your computer to connect to the Xtrema (not included) Alternately you may return the Xtrema to us with $4.85 for return shipping to be updated at no charge.

REPAIRS:

For out of warranty repairs the standard repair fee per unit is up to 50% of the current list price plus $4.85 shipping and handling charges. You may prepay by check, MO, VISA, MASTER CARD or DISCOVERY

ALL RETURNS MUST BE SENT TO: Tejera Microsystems Engineering, Inc., 11705 Boyette Rd #418, Riverview, Florida 33569 Carefully pack and ship the unit via the post office, UPS or FED EX, fully insured and prepaid.