EZ-Peak™ PLUS



80 Watts
6 AMP
AC/DC Fast Charger

TRAXXAS®

OWNER'S MANUAL

WARNING! CAUTION! DANGER!



Fire Hazard!

Charging and discharging batteries has the potential for fire, explosion, serious injury, and property damage if not performed per the instructions. In addition, Lithium Polymer (LiPo) batteries pose a SEVERE risk of fire if not properly handled per the instructions. Before use, read and follow all manufacturer's instructions, warnings, and precautions. Never allow children under 14 years old to charge or use LiPo batteries without the supervision of a responsible, knowledgeable adult.

- While charging or discharging, ALWAYS place the battery (all types of batteries) in a fire retardant/fire proof container and on a non-flammable surface such as concrete.
- ALWAYS charge batteries in a well-ventilated area.
- REMOVE flammable items and combustible materials from the charging area.
- ONLY use a Lithium Polymer (LiPo) balance charger with a balance adapter to charge LiPo batteries.
- If any battery or cell is damaged in any way, do NOT charge, discharge, or use the battery.
- BEFORE you charge, ALWAYS confirm that the charger settings exactly match the battery type (chemistry), specification, and configuration to be charged.
- Do NOT exceed the maximum manufacturer recommended charge rate.
- Do NOT disassemble, crush, short circuit, or expose the batteries to flame or other source of ignition.
- NEVER leave batteries unattended while charging.

TERMS OF USE - The buyer assumes all risk associated with using this product. Traxxas, its affiliates, manufacturers, distributors, and retail partners cannot control the use, application, charging or installation of this product and shall not be held responsible for any accident, injury to persons, or damage to property resulting from the use of this product.

After reading all, if you do not agree with these terms and conditions and are not prepared to accept complete liability for the use of this product, return this product immediately in new/unused condition to your place of purchase. Your hobby dealer absolutely cannot accept product for return or exchange if it has been used in any way.

If you have any questions call Traxxas Customer Support at 1-888-TRAXXAS (1-888-872-9927) Outside the US +1-972-265-8000 or e-mail support@traxxas.com.

Important Warnings for users of Lithium Polymer (LiPo) batteries:

Lithium Polymer (LiPo) batteries are significantly more volatile than other rechargeable batteries.

- ONLY use a Lithium Polymer (LiPo) balance charger with a balance adapter (Such as the Traxxas EZ-Peak Plus) to charge LiPo batteries. Never use NiMH or NiCD type chargers or charge modes to charge LiPo batteries. The use of a NiMH or NiCD charger or charge mode will damage the batteries and may cause fire and personal injury.
- Never charge LiPo battery packs in series or parallel without using the Traxxas Dual Balance Board (sold separately). Charging packs in series or parallel may result in improper charger cell recognition and an improper charging rate that may lead to overcharging, cell imbalance, cell damage and fire.
- ALWAYS inspect your LiPo batteries carefully before charging. Look for any loose leads or connectors, damaged wire insulation, damaged cell packaging, impact damage, fluid leaks, swelling (a sign of internal damage), cell deformity, missing labels, or any other damage or irregularity. If any of the above conditions are observed, do not charge or use the battery pack. Follow the disposal instructions included with your battery to properly and safely dispose of the battery.
- Do not store or charge LiPo batteries with or around other batteries or battery packs of any type, including other LiPos.
- Store and transport your LiPo batteries in a cool dry place. Do not store in direct sunlight. Do not allow the storage temperature to exceed 140°F or 60°C or the cells may be damaged and risk of fire created.
- Do NOT disassemble LiPo batteries or cells.
- Do NOT attempt to build your own LiPo battery pack from loose cells.
- ALWAYS proceed with caution and use good common sense at all times.

Charging and Handling Precautions/Warnings For All Battery Types

- ALWAYS proceed with caution and use good common sense at all times.
- Children require adult supervision while using this charger.
- Do NOT let any exposed battery contacts or wires touch each other. This will cause the battery to short circuit and create the risk of fire.
- While charging, ALWAYS place the battery (all types of batteries)in a fire retardant/fire proof container and on a non-flammable surface such as concrete.
- NEVER charge batteries, on wood, cloth, carpet or on any other flammable material
- ALWAYS charge batteries in a well-ventilated area.
- REMOVE flammable items and combustible materials from the charging area.
- DO NOT operate the charger in a cluttered space, or place objects on top of the charger or battery.
- If any battery or battery cell is damaged in any way, do NOT charge, discharge, use the battery.
- Keep a Class D fire extinguisher nearby in case of fire.
- BEFORE you charge, ALWAYS confirm that the charger settings exactly match the type (chemistry), specification, and configuration of the battery to be charged.
- Do NOT exceed the maximum battery manufacturer's recommended charge rate.
- Do NOT disassemble, crush, short circuit, or expose the batteries or cells to flame or any other source of ignition.
- If a battery gets hot to the touch during the charging process (temperature greater than 110°F / 43°C), immediately and disconnect the battery from charger immediately and discontinue charging.
- Do NOT leave the charger and battery unattended while charging, discharging, or anytime the charger is ON with a battery connected. If there are any signs of a malfunction, unplug the power source and/or stop the charging process immediately.
- ALWAYS unplug the charger from the wall outlet and disconnect the battery when not in use.
- Do NOT operate the charger inside of an automobile.
- AVOID short-circuits by always connecting the charge cable to the charger first and then to the battery to charge or discharge. Remember to always reverse this procedure when disconnecting the battery.
- NEVER connect more than one battery at a time to the charger (except when using the optional Traxxas Dual Balance Board, sold separately)
- DO NOT disassemble the charger.
- REMOVE the battery from your model or device before charging.
- Do NOT expose the charger to water or moisture.
- ALWAYS store battery packs safely out of the reach of children and pets.
- DO NOT charge batteries if you observe ANY of the following conditions:
  - Batteries that are fully charged or have been only slightly discharged.
  - Batteries that are hot (temperature greater than 110°F / 43°C)
  - Batteries that are not expressly stated by the manufacture to be suitable to accept the power output (voltage and amperage) the charger delivers during the charging process.
  - Batteries that are damaged or defective in any way Examples of damage or defects include, but are not limited to: batteries with dented cells, damaged or frayed wires, loose connections, fluid leaks, corrosion, plugged vents, swelling, cell deformity, impact damage, missing labels, melted components or any other signs of damage.
  - Battery packs that have been altered from original manufacturer configuration.
  - Non-rechargeable batteries (explosion hazard).
  - Batteries that have an internal charge circuit or a protection circuit.

Warranty Information

Traxxas electronic components are warranted to be free from defects in materials and workmanship for a period of 30 days from the date of purchase.

Limitations: Any and all warranty coverage does not cover replacement of parts and components damaged by abuse, neglect, improper or unreasonable use, crash damage, water or excessive moisture, chemical damage, improper or infrequent maintenance, accident, unauthorized alteration or modification or items that are considered consumable. Traxxas will not pay for the cost of shipping or transportation of a defective component to us. This warranty is limited to the charger only and does not cover batteries, vehicles and other accessories used in conjunction with the charger.

Traxxas Lifetime Electronics Warranty

After the expiration date of the warranty period, Traxxas will repair the EZ-Peak Plus for a flat rate of $60.00 U.S. plus $5.00 U.S. for shipping and handling. Other mechanical repairs will be estimated separately. The covered repairs are limited to non-mechanical components that have NOT been subjected to abuse, misuse, or neglect. Products damaged by intentional abuse, misuse, or neglect may be subject to additional charges.

Traxxas liability, in no case shall be greater than the actual purchase price of this product. For replacement, product must be returned in brand new condition, with packaging and itemized sales receipt.

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The Traxxas EZ-Peak Plus is a versatile, easy-to-use charger that can be operated with convenient AC power (100-240v) in your shop or at the track, or with DC power (11-18v) for field use. The EZ-Peak Plus' advanced software and fully programmable charge parameters make it simple to charge all common R/C battery types: Lithium Polymer (LiPo), Lithium Iron Oxide (LiFe), Lithium Ion (LiIon), Nickle-Metal Hydride (NiMH), Nickel Cadmium (NiCd) and Lead-Acid batteries (Pb). The included balancing port adapter allows the EZ-Peak Plus to charge and discharge the cells of LiPo, LiFe, and LiIon packs individually to assure each has equal voltage. "Balancing" the cells is essential to the performance and long life from Lithium batteries.

The EZ-Peak Plus charger is designed specifically for use with 1-15 cell (1.2-18v) NiMH and NiCD Battery Packs, 1-6 cell, LiFe/LiPo/LiIon packs, and 2-20v lead-acid batteries. DO NOT use this charger with greater cell counts or voltages.

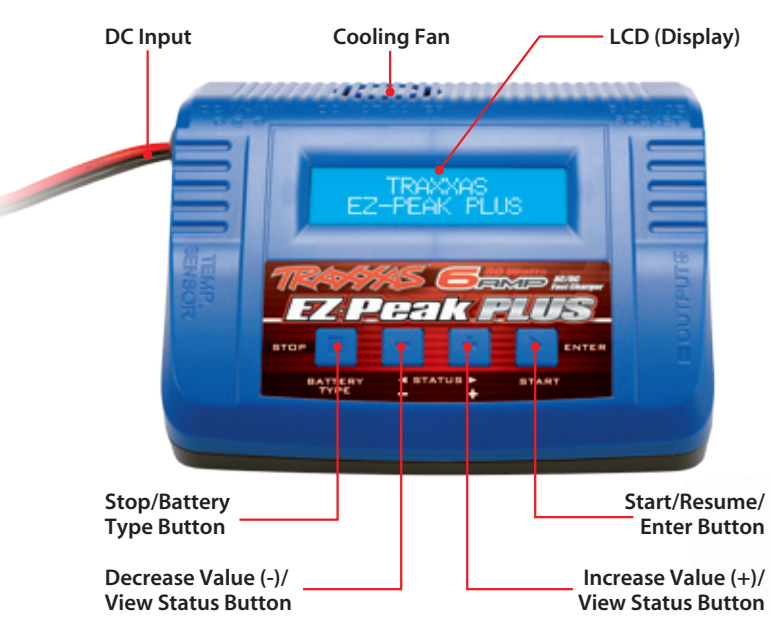
For best charging results and your safety, it is essential that you read and understand these instructions before using the EZ-Peak Plus.

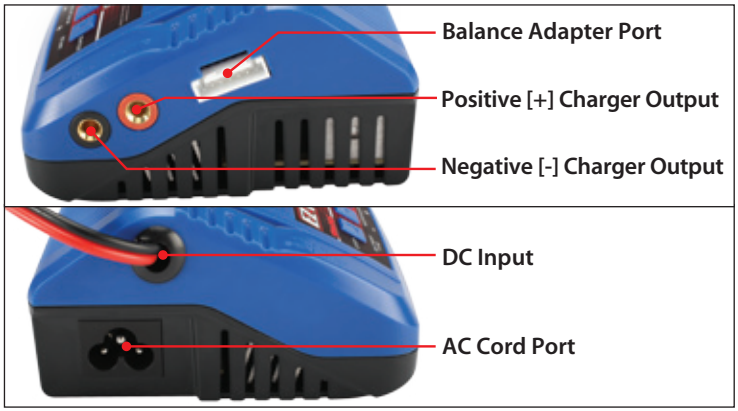
To get you started with the basic function of the charger, follow the Quick Start steps on page 6.

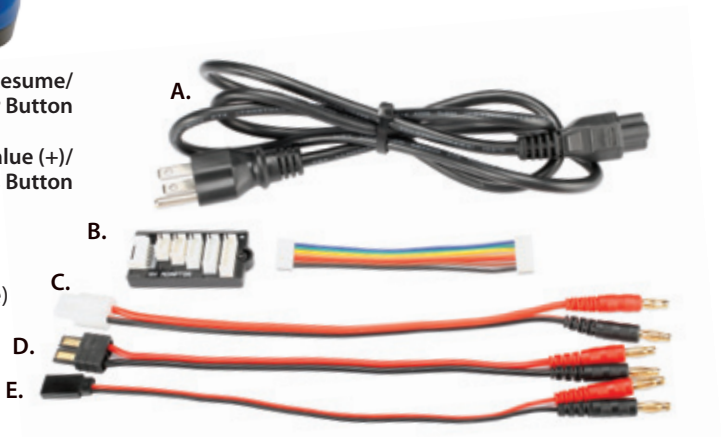
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Included with the EZ-Peak Plus Charger

A. AC power cord
B. Balance adapter board and balance harness (JST-XH style)
C. Battery harness for Molex® plugs
D. Battery harness for Traxxas High Current Connector
E. Battery harness for receiver packs

Prepare the EZ-Peak Plus

1. Plug the AC cord into the charger, and insert the plug into an AC outlet. If using DC power, connect the DC leads to a 11-18v DC power supply or battery.
2. Insert the Balance Adapter into the port labeled "Balance Socket."
3. Insert the correct charge lead for your connector type into the Charger Output ports. CAUTION: Be sure to observe correct polarity, install the red/+ wire into the red/+ port, and install the black/- wire into the black/- port.
4. Plug the battery into the charge lead.
5. For lithium type batteries, connect your battery's balance plug to the balance adapter. If your pack's balance plug does not match any of the receptacles on the balance adapter, contact Traxxas Customer Support at 1-888 -TRAXXAS (1-888-872-9927) Outside the US +1-972-265-8000 or e-mail support@traxxas.com. ***Only charge and discharge lithium batteries using the included balance adapter.***
6. Insert the battery in a fire retardant/fire proof container and on a non-flammable surface such as concrete. You are now ready to begin charging.

NiMH Battery Charging Quick Start



1. Power up the EZ-Peak Plus. Press the STOP/BATTERY TYPE key until you reach "PROGRAM SELECT/NiMH BATT." Each click of the button will advance the display to the next screen. Note: If you click past the battery type you meant to select, press the STATUS/- key to go back.



2. Press the ENTER/START key to advance the NiMH CHARGE screen.



3. Press the ENTER/START key. The amp rate value will flash. Use the STATUS/+/- keys to adjust the value up or down. A good starting point is the capacity of your battery divided by 1000. For example, if you have a 3000mAh battery, 3000÷1000 = 3.0 Amps. Only charge your battery at it's rated "C" unless otherwise noted from the manufacture.



- While the amp rate is flashing, you can select Manual (Man) or Automatic (Aut) by pressing and holding + and – simultaneously. Choose "Man" if you want the charge amperage to remain fixed for the duration of the charge cycle. Choose "Aut "if you prefer to let the EZ-Peak Plus automatically determine the charge amperage up to the current limit value.



4. Press and hold the ENTER/START key. The charger will chime and begin charging. As the pack charges, the display will show the battery type, charge rate, pack voltage, charge time, and the amount of milliamps the pack is receiving.



5. When charging is complete, the charger will chime and display "FULL."
6. To STOP CHARGING, press the "STOP" button.

LiPo Battery Charging Quick Start



1. Power up the EZ-Peak Plus. Press the STOP/BATTERY TYPE key until you reach "PROGRAM SELECT/LiPo BATT." Each click of the button will advance the display to the next screen. Note: If you click past the battery type you meant to select, press the STATUS/- key to go back.



2. Press the ENTER/START key to advance the LiPo CHARGE screen.



3. Press the STATUS/+/- keys to scroll to the LiPo BALANCE screen. Press the ENTER/START key. The amp rate value will flash on and off. Use the STATUS/+/- keys to adjust the value up or down. A good starting point is the capacity of your battery divided by 1000. For example, if you have a 3000mAh battery, 3000÷1000 = 3.0 Amps.



4. Press the Start/enter key again. The battery voltage value will flash. Use the status/+/- keys to adjust the value up or down to match the voltage and cell count indicated on your battery's label (3.7-22.2v, 1S-6S).



5. Press and hold the ENTER/START key. The charger will chime and display "BATTERY CHECK WAIT..." then show "R: #SER S: #SER to indicate how many cells the charger detected (R), and the number of cells you selected (S). The charger will flash "CANCEL (STOP)" and "CONFIRM(ENTER)." Press STOP if the charger indicates the number of cells you selected and the number of cells detected do not match. Press the Stop key to go back. Re-check the cell count of your battery. **Do not begin charging if the cell counts do not match.** If the charger indicates that the cell counts match, press ENTER/START to begin charging.



6. As the pack charges, the display will show the battery type and cell count, charge rate, pack voltage, charge time, and the amount of milliamps the pack is receiving. If you press the STATUS/+ key and the pack is connected to the balance adapter, the charger will display the voltage of the individual cells.



7. When charging is complete, the charger will chime and display "FULL"
8. To STOP CHARGING, press the "STOP" button.

Within the first minute of charging/discharging, the amp rating can be adjusted by pressing the start button. The Amp rate will begin to flash. Press the "+" or "-" buttons to increase or decrease the amp rate. Once set, press the start button to continue the charge/discharge process.

When charging lithium batteries, the EZ-Peak Plus allows the user to select from three different charge modes: Standard Charge, Balance Charge, and Fast Charge. All the modes are "fast" in that they charge the battery quickly, but each mode offers certain benefits.

Before selecting a charge mode, be certain to input the correct lithium battery type:

Selecting the Lithium Battery Type

1. Press the STOP key until the display reads USER SET PROGRAM.



2. Press the ENTER/START key to advance to the next screen (V-Type)
3. Press the ENTER/START key. The voltage value will flash. Use the +/- keys to select 3.3V/LiFE, 3.7V/LiPo, or 3.6V/LiIo.



4. Press the ENTER/START key to input the new setting.

Standard Charge (CHARGE)

The standard charging mode allows the EZ-Peak Plus to charge lithium batteries without requiring the balance adapter. This mode will support the balance adapter if connected, but it is not necessary. Standard Charge uses the Constant Current/Constant voltage charging method to deliver maximum capacity. ***Only charge and discharge lithium batteries using the included balance adapter.***

Balance Charge (BALANCE)

The Balance Charge mode uses the Constant Current/Constant voltage charging method to deliver maximum capacity, and requires the balance adapter to be connected to the battery and charger. The Balance Charge mode monitors the voltage of each individual cell, and charges each cell to equal voltage. Balance Charging is the best way to charge lithium batteries, and Traxxas strongly recommends always using the Balance Charge mode with all lithium packs that have a balance connector. If the balance adapter is not used in Balance Mode, the EZ-Peak Plus will begin charging but stop after a moment, sound an alarm, and display BATTERY VOL ERR CELL CONNECT. If your battery is not equipped with a balance plug, use the CHARGE or FAST CHG modes.

Fast Charge (FAST CHG)

The Fast Charge mode modifies the Constant Current/Constant Voltage charging process to allow the fastest possible charge time. Final charge capacity will be slightly less than the charge capacity achieved with the Standard Charge and Balance Charge modes, but total charging time will be reduced. The Fast Charge mode will support the balance adapter if connected, but it is not necessary. ***Only charge and discharge lithium batteries using the included balance adapter.***

Storage (STORAGE)

For maximum performance and life, it is recommended that Lithium batteries be stored at 50-60% capacity if your Lithium batteries will not be used within 30 days or more. The EZ-Peak Plus makes it easy to store your packs properly with the STORAGE mode, which will automatically charge or discharge the battery to achieve the correct storage capacity. The storage mode will function with or without the balance adapter. ***Only charge and discharge lithium batteries using the included balance adapter.***

Selecting a Lithium Charge Mode

1. After selecting the correct lithium battery type, press the Stop/Battery Select key to select PROGRAM SELECT/[lithium battery type]. *LiIo is the battery type in this example.*



2. Press the ENTER/START key to advance to the [lithium battery type]/CHARGE screen. Go to step 3 if this is the mode you wish to use. Otherwise, use the +/- keys to scroll to select the BALANCE, FAST CHG, and STORAGE screens.

3. Press the ENTER/START key. The amp rate value will flash on and off. Use the STATUS/+/- keys to adjust the value up or down.









4. Press the Start/enter key again. The battery voltage value will flash. Use the status/+/- keys to adjust the value up or down to match the voltage and cell count indicated on your battery's label (3.7-22.2v, 1S-6S). In the CHARGE and FAST CHG modes, you may also select AUTO, and the EZ-Peak Plus will automatically determine the number of cells.





5. Press and hold the ENTER/START key.
   - If you selected a specific number of cells, the EZ-Peak Plus will display "BATTERY CHECK WAIT..." then show "R: #SER S: #SER to indicate how many cells the charger detected (R), and the number of cells you selected (S). The charger will flash "CANCEL (STOP)" and "CONFIRM(ENTER)." Press STOP if the charger indicates the number of cells you selected and the number of cells detected do not match. Press the Stop key to go back. Re-check the cell count of your battery. **Do not begin charging if the cell counts do not match.** If the charger indicates that the cell counts match, press ENTER/START to begin charging.



   - **CAUTION:** If you selected AUTO for the number of cells, the EZ-Peak Plus will begin charging and the number of cells will flash as the EZ-Peak Plus analyzes the battery. The cell number will stop flashing when the EZ-Peak Plus has determined the number of cells. **Press the STOP key if the EZ-Peak Plus does not indicate the correct number of cells for your battery.**



If you are using the balance adapter, you may monitor the pack's individual cell voltages while charging in the CHARGE, FAST CHG, BALANCE, and STORAGE modes. Press the STATUS/+ key while charging to toggle between the main battery status display and the individual cell voltages display.

The EZ-Peak Plus includes a built-in discharger that can be set for 0.1-2.0 amps. The EZ-Peak Plus will discharge the battery until it reaches a user-set voltage.

Note: For 1-cell to 5-cell NiMH/NiCD batteries, the discharge range **must** be set to 0.1 – 1.5Amps ***maximum***.

1. Press the Stop/Battery Select key to select PROGRAM SELECT/[battery type]. *NiMH battery type shown in example.*



2. Press ENTER/START to advance to the [battery type] CHARGE screen.



3. Press the STATUS/+ key to advance to the [battery type] DISCHARGE screen.



4. Press the ENTER/START key. The amperage value will flash. Use the STATUS/+/- keys to change the value (2.0 amps maximum).



5. Press the ENTER/START key. The voltage value will flash. Use the STATUS/+/- keys to change the value. The EZ-Peak Plus will stop discharging when the battery reaches this voltage.



   - In NiMH mode, the cutoff voltage can be set in increments of 0.1 volts. To determine the correct setting for your battery, multiply the number of cells by 0.9. For example, the discharge cutoff voltage for a 6-cell NiMH pack should be 5.4 volts (6 x 0.9 = 5.4)
   - In LiPo, LiIon, and LiFe mode, the cutoff voltage is pre-set according to the number of cells in the pack. Be certain to select the correct number of cells for your battery.



6. Press and hold the ENTER/START key to begin discharging. If you are discharging a lithium battery and using the balance adapter, you may view the voltage of the pack's individual cells by pressing the STATUS/+ key.



Cycling with the EZ-Peak Plus

The EZ-Peak Plus can be used to cycle (automatically discharge and recharge) NiMH and NiCad batteries. Cycling helps NiMh and NiCd packs perform their best, especially if the packs have been discharged and stored for an extended period. When cycling, the EZ-Peak Plus will use the Charge and Discharge settings input previously.

1. Press the Stop/Battery Select key to select PROGRAM SELECT/NiMH BATT or NiCd BATT.



2. Press ENTER/START to advance to the CHARGE screen.



3. Press the STATUS/+ key to advance to the CYCLE screen.
4. Press the ENTER/START key. CHG>DCHG (Charge/Discharge) will flash. Use this setting if you want



the EZ-Peak Plus to first charge the battery and then discharge it. Use the +/- keys to change the setting to DCHG>CHG (Discharge/Charge) if you want to first discharge the battery then charge it.



5. Press the ENTER/START key. The cycle number will flash. Use the STATUS/+ key to enter the number of cycles you want the EZ-Peak Plus to perform (5 maximum). For example, if you select "DCHG/CHG" and "2," the EZ-Peak Plus will discharge, recharge, discharge, and recharge the pack.



6. Press and hold the ENTER/START key to begin cycling.

   • While the EZ-Peak Plus is cycling, the display will show the discharge amperage, pack voltage, discharge time, and capacity being withdrawn from the battery (if discharging) or being stored in the battery (if charging). "D>C" will also display to indicate the status of the cycle. "D" will flash while the EZ-Peak Plus is discharging, and "C" will flash while it is charging.



   • After cycling is complete, the EZ-Peak Plus will display the capacity withdrawn while discharging and stored while charging for each cycle. Use the +/- keys to scroll through the and view the data.



Many of the EZ-Peak Plus' settings can be customized to suit your charging and discharging preferences.

Battery Check Time

The EZ-Peak Plus automatically detects the number of cells in a Lithium pack as it charges to prevent accidental mis-setting of the number of cells. However, a deeply discharged battery may cause the charger to read a lower number of cells than the value correctly input by the user. To prevent the charge or discharge cycle from ending prematurely due to the charger not detecting the correct number of cells, you may program the amount of time the charger will delay displaying a Voltage Selection Error (VOL SELECT ER) message and automatically ceasing the charge or discharge cycle. The default setting is 10 minutes, but the time may be increased for high capacity (over 10,000mAh) batteries. **To prevent accidental battery damage, Traxxas strongly recommends using the default time of 10 minutes or less.**

To change the battery check time, follow these steps:



1. Press the STOP key until the display reads USER SET PROGRAM.
2. Press the ENTER/START key to advance to the next screen (V-Type)
3. Press the STATUS/+ key to advance to the CHK Time screen.
4. Press the ENTER/START key. The time value will flash.
5. Press the +/- keys to change the value. The minimum value is 5 minutes, the maximum is 60 minutes. **To prevent accidental battery damage, Traxxas strongly recommends using the default time of 10 minutes or less.** Press the ENTER/START key to input the new setting.

NiMH and NiCd Delta Peak Sensitivity

While charging a NiMH or NiCd battery, the EZ-Peak Plus monitors the voltage of the pack to determine when it is fully charged. When a NiCd or NiMH battery is charging, its voltage will increase as it reaches a peak (at which point the pack is fully charged), then begins to fall. The EZ-Peak Plus detects this change in voltage and automatically stops charging when the pack is fully charged (delta is the Greek sign for change, hence the term "delta peak"). The amount of voltage change the EZ-Peak Plus must detect to indicate a full charge can be changed to help prevent the charger from incorrectly indicating a full charge if the Delta Peak Sensitivity is set to low, or overcharging the pack if the sensitivity is too high. The settings can be made independently for NiMH packs (default is 7mV) and NiCd packs (default 12mv). To prevent overcharging, raise the Delta Peak Sensitivity in small increments, and only if required. If the battery is warm to the touch(120F/52C) when the EZ-Peak Plus completes the charge cycle, the battery is receiving a full charge and no adjustment to Delta Peak Sensitivity is needed.

To change the Delta Peak Sensitivity, follow these steps:



1. Press the STOP key until the display reads USER SET PROGRAM.
2. Press the ENTER/START key to advance to the next screen (V-Type).
3. Press the STATUS/+ key twice to advance to the NiMH Sensitivity screen, or three times to advance to the NiCd Sensitivity screen. Use the STATUS/- key to go back if you pass the screen.

4. Press the ENTER/START key. The voltage value will flash.
5. Press the +/- keys to change the value. The minimum value is 5mV, the maximum is 20mV.



6. Press the ENTER/START key to input the new setting.

Safety Timer

The EZ-Peak Plus features a built-in timer that starts as soon as a battery begins charging and will automatically stop charging if a programmed amount of time has elapsed without the EZ-Peak Plus detecting a full charge. To change the cutoff time, follow these steps:

1. Press the STOP key until the display reads USER SET PROGRAM.
2. Press the ENTER/START key to advance to the next screen (V-Type).
3. Press the STATUS/+ key six times to advance to the Safety Timer screen. Use the STATUS/- key to go back if you pass the screen.







4. Press the ENTER/START key. “ON” will flash. The + or – key may be used to turn the Safety Timer OFF, but **Traxxas strongly recommends the use of the Safety Timer.**
5. Press the ENTER/START key. The time value will flash. Use the +/- keys to change the value.



6. Press the ENTER/START key to input the new setting.

Capacity Cut-Off

The EZ-Peak Plus monitors battery capacity as it charges. To prevent over-charging, you can set the EZ-Peak Plus to stop charging when a certain capacity is reached. **Note**: it is common for a battery pack to accept more capacity while charging than is indicated on the pack’s label. Setting the Capacity Cut-Off for the exact capacity indicated on the label of your battery may prevent the battery from charging fully.

To Set the Capacity Cut-Off, follow these steps:

1. Press the STOP key until the display reads USER SET PROGRAM.
2. Press the ENTER/START key to advance to the next screen (V-Type).
3. Press the STATUS/+ key seven times to advance to the Capacity Cut-Off screen. Use the STATUS/- key to go back if you pass the screen.







4. Press the ENTER/START key. “ON” will flash. The + or – key may be used to turn the Safety Timer OFF.
5. Press the ENTER/START key. The mAh value will flash. Use the +/- keys to change the value. The minimum value is 10mAh, the maximum is 50,000mAh.



6. Press the ENTER/START key to input the new setting.

Key Beep/Buzzer

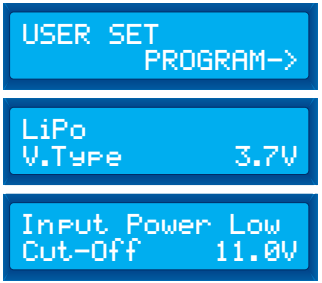
The EZ-Peak Plus emits a beep each time a button is pressed and chimes when a charge/discharge cycle is complete. Both of these sounds may be switched off by following these steps:



1. Press the STOP key until the display reads USER SET PROGRAM.
2. Press the ENTER/START key to advance to the next screen (V-Type).
3. Press the STATUS/+ key eight times to advance to the Key Beep/Buzzer screen. Use the STATUS/- key to go back if you pass the screen.
4. Press the ENTER/START key. “ON” will flash next to Key Beep. Use the +/- keys to select OFF.
5. Press the ENTER/START key. “ON” will flash next to Buzzer. Use the +/- keys to select OFF.
6. Press the ENTER/START key to input the new settings.

Input Power Low Cut-Off

When using the EZ-Peak Plus with a DC battery, the Input Power Cut-Off is used to prevent the EZ-Peak Plus from over-discharging the input battery. The input voltage at which the charger will shut off can be set by following these steps:



1. Press the STOP key until the display reads USER SET PROGRAM.
2. Press the ENTER/START key to advance to the next screen (V-Type).
3. Press the STATUS/+ key nine times to advance to the Input Power Low Cut-Off screen. Use the STATUS/- key to go back if you pass the screen.
4. Press the ENTER/START key. The voltage value will flash. Use the +/- keys to set the value.
5. Press the ENTER/START key to input the new setting.

The EZ-Peak Plus is capable of charging and discharging lead-acid batteries with 2-24 volts. This type of battery cannot be fast charged, and the use of the EZ-Peak Plus' Capacity Cutoff feature is recommended to prevent over-charging. Consult your battery's label to determine its capacity.

Charging a Lead-Acid Battery

1. Press the STOP/BATTERY TYPE key to select PROGRAM SELECT/Pb BATT
2. Press the ENTER/START key to advance to Pb CHARGE
3. Press ENTER/START and use the STATUS/+/- keys to set the charge amperage. Set the amperage for 1/10 of the battery's capacity. For example, a 12Ah battery should be charged at 1.2amps
4. Press ENTER/START and use the STATUS/+/- keys to set the battery voltage and number of cells (2-20v, 1-10 cells)
5. Press and hold ENTER/START to begin charging.









Discharging a Lead-Acid Battery

1. Press the STOP/BATTERY TYPE key to select PROGRAM SELECT/Pb BATT
2. Press the ENTER/START key to advance to Pb CHARGE
3. Press the STATUS+/- key to select Pb DISCHARGE
4. Press ENTER/START and use the STATUS/+/- keys to set the discharge amperage.
5. Press ENTER/START and use the STATUS/+/- keys to set the battery voltage and number of cells (2-20v, 1-10 cells)
6. Press and hold ENTER/START to begin discharging.









The EZ-Peak Plus can save up to 5 Battery Profiles, allowing you to easily recall charging and discharging settings for various battery packs. To create a Battery profile, use the SAVE DATA function. To load a Battery profile for use, choose LOAD DATA. When saving data for a Lithium battery, the EZ-Peak Plus will store the parameters for the Charge, Balance, Fast Charge, Storage, and Discharge modes. When entering data for a NiMH or NiCd battery, the EZ-Peak Plus allows you to set the parameters for Charge, Discharge, and Cycle modes. Lead-acid battery profiles accept Charge and Discharge settings only.

Saving a Battery Profile

1. Press the STOP/BATTERY TYPE key to select SAVE DATA.



2. Press ENTER/START. The Profile number will flash. If you wish to edit a specific Profile, use the STATUS/+/- keys to select the Profile number.



3. Press the ENTER/START key. The battery type will flash. Use the STATUS/+/- keys to select the battery type.



4. Press ENTER/START. The battery voltage will flash. Use the STATUS/+/- keys to input the battery voltage as indicated on the battery's label.



5. Press ENTER/START. The battery capacity will flash. Use the STATUS/+/- keys to input the battery capacity as indicated on the battery's label.



6. Press and hold the ENTER/START key to advance to the next screen (CHARGE). Continue to the next step if you wish to program the CHARGE parameters, or press the + or – keys to select Balance, Fast Charge, Storage, Discharge or Cycle modes (not all modes are available with each battery type).

7. Press the ENTER/START key. The charge amperage will blink. Use the STATUS/+/- keys to change the value. If you are creating a NiMH or NiCd profile, press and hold the ENTER/START key to save the profile. *If you are creating a profile for a Lithium battery, continue to step 8.*



NiMH Charge Screen



LiPo Charge Screen

- If you are saving data for a NiMH or NiCd pack, you can select Manual (Mn) or Automatic (At) by pressing + and – simultaneously. Choose Mn if you want the charge amperage to remain fixed for the duration of the charge cycle. Choose Au if you prefer to let the EZ-Peak Plus automatically determine the charge amperage up to the input value.



8. Press the ENTER/START key. The battery voltage will blink. Use the STATUS/+/- keys to change the value. The number of cells will change with the voltage. Be certain your setting matches the battery you plan to use with the profile.



9. Press and hold the ENTER/START key to save the profile.

Loading a Battery Profile

1. Press the STOP/BATTERY TYPE key to select LOAD DATA.



2. Press the ENTER/START key. The EZ-Peak Plus will display LOAD [1] for Profile 1.



3. Use the STATUS/+/- keys to select the profile you wish to load.



4. Press and hold the ENTER/START key to load the profile.

The EZ-Peak Plus features advanced circuitry with built-in protections to safeguard the charger and your batteries. If the EZ-Peak Plus signals an error or warning, stop using the charger until the problem has been remedied.



Reverse Polarity
The battery you are charging or discharging is plugged in "backwards," positive to negative. Check the orientation of your battery's plug and the charger's output leads to be sure correct polarity is observed.



Connection Break
The charging/discharging battery is disconnected.



Short Circuit
Carefully check the charger's output leads, the battery's leads, and plugs for the cause of the short circuit. If you cannot determine the cause of the short circuit error, there may be an internal fault within the battery. Do not attempt to charge or use the battery.



Input Voltage Error
The power source you are using with the EZ-Peak Plus is incorrect. The EZ-Peak Plus should be plugged into a 100 to 240AC outlet with the supplied 3-prong grounded wall plug, OR connected to an 11-18 volt DC power source.



Voltage Selection Error
The voltage of the charging/discharging battery has been improperly selected. Re-input the battery voltage to match the label on your battery.



Breakdown
Charger malfunction. Contact Traxxas Customer Support at 1-888-TRAXXAS.





Battery Check - Low Voltage / Battery Check - Over Voltage
The charging battery's voltage is higher or lower than what was selected. Re-input the battery voltage to match the label on your battery.





Battery Voltage - Low Cell Voltage / Battery Voltage - High Cell Voltage
The charger has detected than an individual cell's voltage is too high or too low Not sure how to advise customer here.



Battery Voltage - Cell Connection Error
The charger has detected that there is no balance port reading in LITHUIM BALANCE MODE.



Over Temperature Error
The charger's internal temperature is too high. Allow the charger to cool down before using again.



Control Failure
Charger malfunction. Contact Traxxas Customer Support at 1-888-TRAXXAS.

EZ-Peak™ PLUS

TRAXXAS®

OWNER'S MANUAL

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