



# Bat-Caddy X2 Pro User Manual



**WARNING: PLEASE FOLLOW ALL ASSEMBLY INSTRUCTIONS AND  
READ AND UNDERSTAND THE OPERATING INSTRUCTIONS BEFORE  
YOU OPERATE THE CADDY!**

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# **PACKING LIST**

## **1. Standard Parts**

- 1 Caddy Frame
- 2 Rear Wheels (left & right)
- 1 Battery Pack (Battery, Bag, Leads)
- 1 Charger
- 1 Tool kit
- 1 Scorecard Holder
- 1 Assembly & Operating Instructions, Warranty

## **2. Optional Accessories**

- 1 Cup Holder
- 1 Umbrella Holder
- 1 Seat Cushion, Stand, & Hardware
- 1 Carry Case

**Addition accessories available for purchase on [www.batcaddy.com](http://www.batcaddy.com)**

# PARTS GLOSSARY



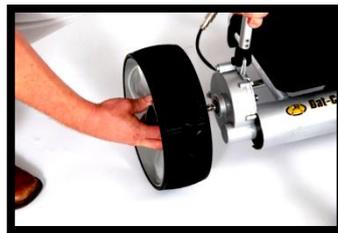
1. Handle
2. Upper Frame Tube
3. Frame Lock
4. Upper Bag Support & Strap
5. Lower Frame Tube
6. Lower Bag Support & Strap
7. Twin Front Wheels
8. Rear Wheel
9. Frame Support Rod
10. Wheel Hubcap
11. Charger
12. Battery

# ASSEMBLY INSTRUCTIONS

1. Unpack all items carefully and check parts inventory
2. Place frame structure (one piece) on soft and clean ground to protect frame from being scratched. Unfold the frame by pulling the lower and the upper frame tubes apart and locking them together with the frame lock mechanism. The lock has two notches to adjust the handle height.

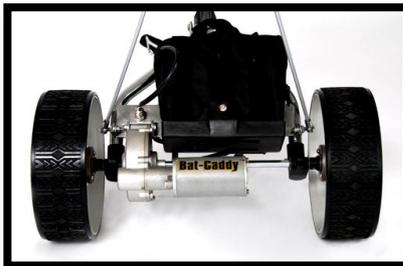


3. Attach the rear wheels by releasing the quick catch on the outside of the hubcap while inserting the wheel onto the axle. Push the wheel all the way in, so that the two pins on the axle fit into the wheel core to engage the clutch and release the catch. The wheel should be fully secured. Make sure to keep the locking button pushed in during this process, in order to enable the axle extensions, including the two pins, to be inserted all the way into the wheel and be completely locked. **Attention: Make sure that the right wheel (marked R) is attached to the right side and the left wheel (marked L) to the left side (seen from behind in driving direction), as the wheels have built-in clutches. The caddy will not move, if the wheels are not on the proper side. Reverse the action to remove the wheels.**

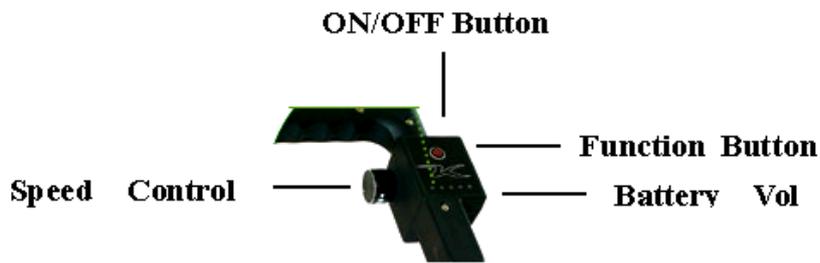


4. The battery cable connects to both the trolley and charger. Place the battery in the battery tray and secure it with the Velcro strap. Insert the battery connector into the plug on the caddy. It is **not** necessary to tighten the screw around the plug, as this might cause damage in case of a tip-over.

**Note:** Make sure the caddy's power switch is in Off position and the rheostat dial is pulled back to Off position before you plug the battery in.



# HANDLE CONTROL FUNCTIONS



**ON/OFF Switch:** The power supply of the caddy; located on the front side of the handle controls.

**Rheostat Speed Control:** Located on the right side of the handle. Scrolling of the seamless rheostat speed control lets you choose your preferred speed to suit your walking pace. By dialing forward (clockwise) the speed can be increased. Dialing backwards (counter-clockwise) will reduce the speed.

**Digital Cruise Control:** Red circular push button on front top of the handle. Select the ideal speed to match your pace via the rheostat speed control. In order to stop, press the red cruise control button. The cart will remember its last speed setting when you stop. Once you are ready to go again, press the button again, and the caddy will automatically travel at the same speed as before. To adjust the speed, dial the speed knob forward or backward. The caddy is equipped with a "Soft Start" ability which ensures smooth acceleration up to the selected speed by pressing the cruise control button on the handlebar control panel.

**Battery Charge Indicator:** Five/three color LEDs on the handle show the battery charge at any time. When the battery is fully charged all lights (red, yellow, green) will be lit. As the battery gets drained first the green lights will go off, then yellow and when only the red lights are lit, it's time to recharge the battery.



# OPERATING INSTRUCTIONS

**Power Switch:** In order to turn the caddy on, push the On/Off switch to On. All battery charge indicator LEDs should light up (if the battery is fully charged).

**Battery Charge Indicator LEDs:** After the caddy has been switched on, all LED lights (green, yellow, red) should be illuminated. This indicates that the battery is fully charged. During play, and as the battery is being discharged, first the green lights should go off, then the yellow, and when only the red LED is illuminated, it is time to recharge the battery.

**Rheostat Speed Control:** While holding on to the handle firmly, start dialing the rheostat speed control with your index finger **SLOWLY** forward (clockwise). The caddy will start moving forward. Adjust the speed seamlessly to the desired pace. To stop or slow the caddy down either dial the speed control knob backwards or use the cruise control button as described in the previous chapter.



**Testing the Caddy:** It is recommended to perform a test of all functionality before using the caddy in public environments. Make sure that you perform your first test of the caddy in a wide and safe area possibly on even surface, free of obstructions or valuables, such as people, parked automobiles, flowing traffic, furniture or water bodies (rivers, swimming pools etc.), steep hills, cliffs or similar hazards.

## **Recommendations for Efficient and Safe Operation:**

It is recommended to be in reaching distance of the caddy at **ALL TIMES** during operation in order to prevent any loss of control or tipping over. This pertains especially near bodies of water, creeks, bridges, public traffic or other hazards or going up or down steep hills. Also make sure that you park the caddy securely once you walk away from it. **The warranty will not cover any damage or accidents caused by careless operation of the equipment or loss of control of the unit.**

**ATTENTION:** Be alert and act responsibly at all times while operating your caddy, just as you would when operating a riding cart, motor vehicle or any other type of machinery. **We absolutely do not recommend the consumption of alcohol or any other impairing substances while operating our caddies!**

Please avoid or minimize operation on hard and rough surfaces, such as cart paths, asphalt roads, gravel roads, roots etc., as this will cause unnecessary wear and tear on tires, wheels and other components. The caddy is best operated on soft and smooth surfaces such as fairways.

# MAINTENANCE AND GENERAL INSTRUCTIONS

## 1. Battery Precautionary Instructions

### PLEASE OBEY THESE PRECAUTIONS FOR BATTERY USE & CHARGING

- Please do not charge the battery in a sealed container or in upside down position. It is recommended to charge the battery in a well ventilated area.
- Please do not charge the battery near a heater, or where heat accumulation may occur or in direct sunshine.
- In order to prolong the service life of the battery, please avoid complete discharge and charge the battery after every use. Unplug the battery from the charger once the charge is complete. When the trolley is not in use for an extended period of time, it is recommended to charge the battery once a month.
- The battery's poles red color stands for positive, and the black for negative. In case of battery replacement please reconnect the poles of the battery correctly. **Otherwise your caddy could suffer severe damage.**
- **If you notice any abnormalities of the battery or charger, such as heat, bulging etc. please unplug the battery immediately, stop using it and call your nearest Bat-Caddy Service Center.**
- Please do not disassemble the battery or throw it into a fire. **EXPLOSION HAZARD!!!**
- **NEVER TOUCH THE ELECTRIC POLES OF THE BATTERY!! SAFETY HAZARD!!**

## 2. Battery Charging and Maintenance

Connect the battery cable plug with the charger and then plug the charger into an electrical outlet. During the charging cycle the LED on the charger will show a red steady light (some chargers also have a blinking green light during the charging cycle). Once the charging cycle is complete the blinking green light or the red light will turn into a steady green light. It is now okay to unplug the charger and battery for reuse. The charging cycle can last up to 12 hours depending on the level of discharge.

Normally the battery will hold its charge for several months, and it does not have a "memory effect", and therefore can be recharged at any discharge level. **It is not recommended to fully discharge the batteries, as this will shorten battery life drastically.** The battery has a normal lifespan of ca. 150 charges, depending on charging frequency, storage conditions and time and discharge history. Before storing a battery for extended periods of time you must fully charge it. **DO NOT** store a fully discharged battery or else it might become unusable. Replacement batteries are available from your authorized Bat-Caddy dealer or directly from Bat-Caddy.

### RECOMMENDATIONS FOR BATTERY CHARGING & MAINTENANCE

- Fully charge the battery for ca. 12 hours before the first use
- Do not leave the battery on the charger, if it is not used for extended periods of time, but remove it from the charger after the charge is complete.
- The battery will take approximately 2-3 rounds and charging cycles before it reaches its

full operating potential. During the first couple of rounds it might still be below its optimal power.

- Always keep your battery fully charged before another game
- Never keep your battery connected to the grid during prolonged power outages. It might be irreversibly damaged
- Do not fully discharge the battery by “overplaying” it. It is recommended to recharge the battery after every 18 holes.

### 3. Electronic System

- **Microcomputer:** The caddy has 2 microcomputer controls: The first is in main controller box, and the second is in the receiver in the handle.
- **Safety Protection:** When the temperature of the controller box reaches its upper limit in case of overload it will automatically shut down to cool off for a few minutes.
- **Microprocessor Controlled Electronics System:** When you connect the battery, the electronics system will automatically run through a start-up routine. Then you can press the main OFF/ON button on the handle. The battery charge indicator lights will show you the charge level of the battery from green (fully charged) to red (discharged).
- **Important:** The electronics controller box contains no user serviceable parts. Therefore, it is sealed to reduce the risk of moisture entering and impacting the electronic system. Breaking this seal increases the risk of damaging the electronics and decreasing the reliability of your caddy. **DO NOT** attempt to open the controller case. **Doing so will void the warranty!**
  - **Battery Operation and Care:** Follow battery charge and maintenance instructions. The battery comes with leads and connector.

### 4. General Maintenance

The steps below will ensure that you get a prolonged and reliable life out of your Bat-Caddy:

- 1) The Caddy has been designed so that the user can concentrate on playing golf, while the caddy does the work of carrying your bag. In order to keep your Bat-Caddy looking at its best, we advise that you wipe any mud or grass from the frame, wheels and chassis after every round with a damp cloth or paper towel.
- 2) Do **NOT** use hoses or high-pressure jet washers to prevent moisture entering the electronic systems, motor or gear box of the caddy.
- 3) Remove the rear wheels every few weeks and clean out any debris that might cause the wheels to drag. You might also apply some lubricant, such WD-40 to keep moving parts smooth and corrosion free.
- 4) A 4-5 hour round of golf played once a week for 12 months is equivalent to ca. four years use of a lawn mower, so please inspect your cart at least once a year thoroughly, and if you notice any symptoms of wear, contact your Bat-Caddy Service Center. Alternatively, you can have your caddy inspected and tuned by our Service Center, so it's always in great shape for the new season.
- 5) Always disconnect the battery when you store the caddy, and always put your caddy together before re-connecting the battery. If you are not planning to play for at least a month, store the battery in a warm and dry place (not on concrete floor) and don't leave it on the charger.

# TECHNICAL SPECIFICATIONS

<b>MSRP Price</b> (with Standard Battery)	\$595.00
<b>Sale Price</b>	\$395.00
<b>Standard Battery</b>	22Ah SLA Dimensions: 7.5 x 6.5 x 3 in (19 x 17 x 8 cm) Average charge time: 4-8 hours Lifetime: ca. 150+ charges*
<b>Standard Battery Duration</b>	27+ holes
<b>Battery Upgrade Options</b>	N/A
<b>Folded Dimensions</b>	Length: 34 in (86 cm) Width: 20 in (51 cm) Height: 12 in (31 cm)
<b>Unfolded Dimensions</b>	Length: 42-45 in (107-114 cm) Width: 20 in (51 cm) Height: 34-38 in (86-97 cm)
<b>Weight Caddy</b>	25 lbs (11.4 kg)
<b>Weight Standard Battery</b>	12 lbs (5.5 kg)
<b>Total Weight (standard battery)</b>	37 lbs (17 kg)
<b>Speed</b>	5.4 mi/h (8.6 km/h)
<b>Control Functions</b>	Manual Seamless Rheostat Cruise Control Functions: Forward, Stop Battery Charge Indicator Power On/Off
<b>Distance/Range</b>	13 mi(20 km)/27+ holes
<b>Climbing Ability</b>	30 degrees
<b>Off-Power Free-Wheeling Mode</b>	✓
<b>Maximum Load</b>	66 lbs (30 kg)
<b>Charger</b>	Input: 110-240V AC Output: 12V/2A-3A Trickle Charger
<b>Motor</b>	Power: 1 x 200 Watt (200 Watt) 12V DC Electric
<b>Front Wheels</b>	Airless, rubberized tread

<b>Rear Wheels</b>	Airless, rubberized tread Quick-release mechanism
<b>Drive Train</b>	Rear Wheel Drive Gear ratio (17:1)
<b>Handle Height Adjustment</b>	✓
<b>Materials</b>	Aluminum/Stainless Steel/ABS
<b>Available Colors</b>	Oxidized Silver Titanium Finish
<b>Available Accessories</b>	Scorecard Holder Cup Holder Umbrella Holder Carrying Bag Seat
<b>Optional Accessories</b>	Rain Cover Sand Dispenser  see "Special Offers" for seasonal promotions
<b>Introduced (year)</b>	2006
<b>Certifications</b>	
<b>Warranty</b>	1 Year on Parts and Labor 1 Year on Battery
<b>Packaging</b>	Type: Cardboard Box, Styrofoam Cushioning Dimensions: 36 x 22 x 13 in (92 x 55 x 34 cm) Gross Weight: 41 lbs (18.5 kg)

**Note:** Bat-Caddy reserves the right to modify/upgrade any components during a model year, so illustrations on our website, brochures and manuals may slightly vary from the actual product shipped. However, Bat-Caddy guarantees that specifications and functionality will be always equal or better from the advertised product. Promotional and standard accessories may also vary from illustrations shown on our website and other publications.

\*Life of sealed lead acid and any other batteries is dependent on a variety of factors, other than purely the number of charges, including but not limited to frequency between charges, duration of charge, level of drainage, idle time, storage conditions and duration and overall shelf time. We cover our batteries according to our warranty policy and any potential additional coverage is at our discretion.

# FREQUENTLY ASKED QUESTIONS (FAQs)

## 1. General Questions

### **Why should I use an electric golf push cart vs. a regular push cart or a golf cart?**

Bat-Caddy: Electric golf caddies provide you with a series of benefits, such as improved health and fitness, weight loss, lower handicap and a better overall golf experience, as well as economic benefits due to the saved rental cart fees. On Average a Bat-Caddy pays back for itself within one season considering a \$15.00-\$20.00 rental cart fee. The caddy basically gives you the experience to play like a Tour Professional, i.e. walking but not having to carry, push or pull and thus avoiding any strain or fatigue which will most definitely impact your golf game. The real question is why should I not use an electric golf caddy and continue to carry my bag or waste money on riding cart rental fees? Please also read our Product Benefits section on our website.

### **What is the difference between a remote controlled and a manually controlled motorized golf trolley?**

Bat-Caddy: The remote controlled caddy can be operated via a handheld remote transmitter up to 100 yards distance. The manually controlled caddy is also power assisted but steering and speed control needs to be performed manually on the handle, so you will have to walk close to the caddy while operating it. The remote controlled caddy can also be manually operated via a seamless rheostat control on the handle. It especially comes in handy when walking off the fairway or after putting, because you don't have to walk back to your cart.

### **How do I know if a motorized golf push cart is not too complicated for me to operate and maintain?**

An electric caddy does require some minimal technical understanding and affinity, as it is a rather sophisticated, yet easy to use electrical/mechanical device with moving and wear/consumable parts. Remote controlled carts require a little bit more involvement/touch and forward looking operation than the manual carts, as they will follow the topography of the course. Eventually, wear and consumable parts need to be replaced, so look for a supplier who has all parts in stock and is transparent in parts pricing. Our sincere advice is: if you don't know clockwise from counter clockwise, left from right, plus from a minus battery pole or cannot read instructions or expect pushing a button and the caddy will follow you from the 1st tee to the 19th hole - Don't buy an electric golf cart!

### **Will the golf cart follow me?**

Bat-Caddy: No! The type of carts that follow you are mostly obsolete or extinct. The main disadvantage of this technology was that they tended to cut corners, i.e. run into bunkers or water hazards once the operator went around them. You also needed to switch them off before you went on the green and walk back to them after putting. Today's remote control technology is more intuitive to use.

### **What is better? A rear wheel or a front wheel drive?**

Front wheel driven caddies have some distinct disadvantages: Due to the motor being integrated into the front wheel there is additional weight which needs to be lifted when turning. Also the wheel spins when lifted, and the caddy tends to lose traction going uphill. It's also more difficult to repair. The rear wheel drive is definitely the way to go!

### **What kind of golf bag should I be using with an electric caddy? Can I use my current carry/stand bag?**

Electric caddies are designed for standard cart bags. Carry bags with legs or uneven weight distribution are not very well suitable, as the legs will prevent the bag from being centered or properly affixed causing shifting during operation which will negatively impact the tracking of the cart. Hence, we recommend a standard cart bag with an even oval shape design, possibly with separate club compartments to prevent club shifting and noise, and plenty of pockets to optimize weight distribution in the bag/cart. Recommended dimensions are: 34.5" (minimum height) x 9" (width) x 11" depth. Our bag supports accommodate many different shapes and sizes but the above measurements are ideal dimensions.

### **What makes your caddies better than those of your competitors?**

Bat-Caddy: Our caddies offer a unique and superior combination and balance of performance features, design, quality, service and value. Bat-Caddy incorporates US and European design and Marketing/Distribution savvy with Asian manufacturing capabilities. Unlike some other brands our caddies are designed as motorized golf caddies from ground up and not just retrofitted push carts. Please refer to our Product Information section for detailed product features and benefits and don't hesitate to compare us to any of our competitors at any level. When purchasing an electric caddy please also always consider the after-sales service. According to many of our customers Bat-Caddy has the industry's best customer service, and response time (Testimonials). Our sincere advice: Never buy this kind of product from amateurs on auction sites other than from our authorized dealers, or from shady/new outfits without real physical addresses or service phone numbers. You want to make sure you get service and parts when you need it during the life of your caddy and warranty back-up as advertised. Check a company's track record, and if they actually have a real physical location. There are various "imitators" on the market who have tried to copy our caddies as well as Marketing strategy, but they are usually years behind and ship out of a "garage". Bat-Caddy is a well established company since 2004 and considered the best value in the market with the best customer service by our nationwide reputable dealers/retailers. That's why we continue to grow at an amazing pace, despite the current economic climate. We are a

global company represented in the US, Canada, Europe and Asia with an array of reputable retailers representing our product line.

## **2. Bat-Caddy Questions**

### **Should I charge the battery once I receive the unit?**

Bat-Caddy: Our 12V sealed lead acid batteries come more or less fully charged, but we recommend to charge them for a full 12 hours before the first usage. The charger should either have a blinking green light or a red light while it's charging and turn into a steady green light when the battery is fully charged. The batteries develop their full potential after a few full charging cycles. We recommend not to leave the batteries on charge for longer periods of time. After a charging cycle is completed over night, unplug the battery and it will hold its charge for weeks, if not months.

### **How long does the battery last?**

Bat-Caddy: Our batteries are rated to last on average for at least 27 holes or 6-7 hours of play per charge (anyone advertising longer operational functionality on the same ratings batteries is very likely overstating the continuous battery performance). Depending on the weight of your bag, topography of your course and the distance of travel they might last longer or shorter. However, we recommend to recharge the battery after every 18 holes or 5 hours of play, as complete drainage reduces the life time of a battery significantly! The overall life time for sealed lead acid and any other batteries used by any caddy OEM is dependent on a variety of factors, other than purely the number of charges, including but not limited to frequency between charges, duration of charge, level of drainage, idle time between usages, storage conditions and duration and overall shelf life. We usually predict a battery lasting anywhere between 120-180 charging cycles, if it is used frequently and according to instructions. We do cover our batteries 100% according to our published warranty policy, and any potential additional coverage is at our discretion.

### **What do the lights on the handle mean?**

Bat-Caddy: The red, yellow and green LEDs on the handle indicate the level of charge of the battery. When the battery is fully charged they all should be lit. As the battery drains itself first the green, then yellow will go off. If only the red is on it's time to recharge.

### **My caddy has no power when I try to turn it on?**

Bat-Caddy: Please check if all electrical connections are tight. Also check the fuse in the red cable of the battery leads within the battery carrying case. If broken please replace with a standard 30 Amp automotive fuse.

### **My caddy tends to track to one side. What should I do?**

Bat-Caddy: All caddies will follow the weight and slope. If the weight in your bag is unevenly distributed the caddy will always tend to track to that side. Make sure that

your bag is balanced. Please test the tracking of your caddy without the bag on even terrain. The tracking can also be adjusted by adjusting the front wheel with the adjustment mechanism. Please open the axle screw and the tracking rod located on the right side of the front wheel. Shift the wheel as needed and tighten the screws in reverse order. During operation make sure the bag is positioned straight, the weight in your bag is evenly balanced and does not shift.

**Do caddies interfere with each other when playing with other Bat-Caddy carts?**

Bat-Caddy: No. The remote controls have slightly different frequencies, so they don't interfere with each other.

**I lost or replaced my remote control and just received a replacement. How do I reprogram or resynchronize the new unit?**

Bat-Caddy: In order to resynchronize a new remote control you need to have the caddy under power (turned on) with the rheostat speed control in OFF position. Best to reboot (turn off and on) the caddy before starting the process. For pre-2010 models expose the controller box in the battery tray by opening the plastic lid in the tray. Now push the green button on the side of control box while simultaneously pushing either the forward or reverse button on the new remote transmitter for ca. 10 sec. For 2010 models the green button has been eliminated, so just point the remote onto the caddy a few feet away and press forward or reverse for 10 sec. If the caddy does not start moving at once, release and repeat process. Please make sure that the caddy is powered on during this procedure. We recommend to take the wheels off or jack up the caddy during resynchronization to prevent the caddy from getting away.

**I received my Bat-Caddy model and it has the free new integrated scorecard/umbrella holder accessory. How do I assemble it properly?**

Bat-Caddy: Please check our website to download assembly instructions.

**The golf season is over and I am ready to store my Bat-Caddy? What is your advice?**

Bat-Caddy: We recommend to clean the caddy using a damp cloth or brush for the wheel treads. DO NOT use a hose or power washer and keep moisture away from the electronics in the handle and controller box/compartments! Lubricate and protect the axles and wheel cores from oxidation with WD-40 or similar lubricant. Store in a dry, cool/non-freezing place. Give the battery a final full charge over night, unplug and store in a cool but non-freezing place. DO NOT leave the battery plugged into the caddy or charger! DO NOT leave the battery on a concrete floor, but ideally place on a wooden shelf. If possible recharge the battery every 6-8 weeks. Recharge before first use in Spring, and you should be in great shape for the next season. Stay warm!