

# *Cart-Tek*

## ***GRI-1500Li / GRI-1500LTD*** **User Manual Version 1.2**



Your Cart-Tek golf trolley was thoroughly quality control checked and 'road tested' before being shipped to your address. We do everything possible to assure that your trolley is in perfect working order upon arrival. Should you have any questions about the performance of your trolley, please contact us at

USA: Carttek.com or 541-633-4308

Canada: JPSMGolf.com or toll free 1-855-839-1600

For current version of this manual, check

<http://www.carttek.com/golf-cart-resources/cart-tek-manuals/>

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## INTRODUCTION

Thank you for purchasing the Cart-Tek GRi-1500Li golf trolley. **Please read this manual carefully before use.**

After unpacking, please keep the carton and all internal sections in safe storage. In the unlikely possibility that you need to return the whole unit due to a defective component, you will need to repack the unit in the original manner to ensure safe and secure transit.

Remove all components from carton and check that the following are included in the package:

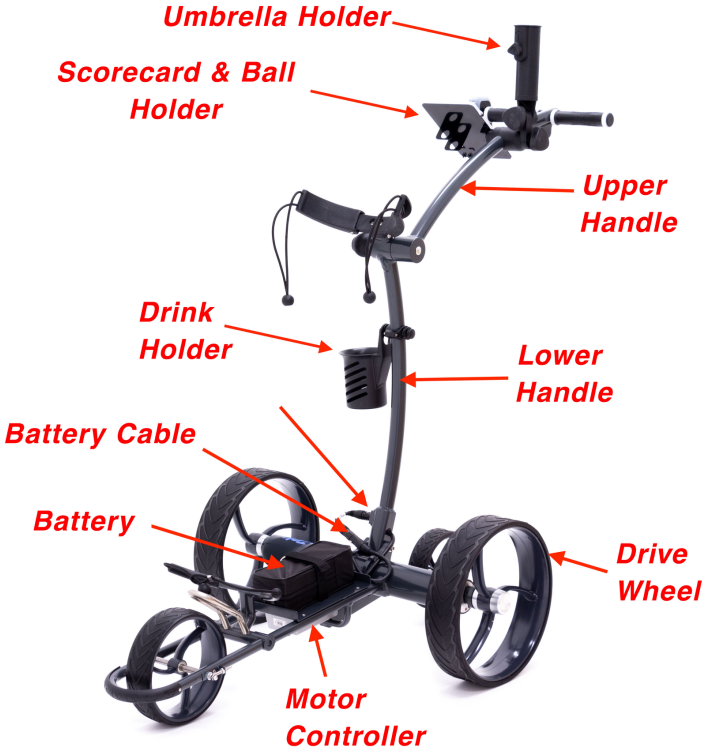
- Main trolley frame
- Transmitter
- Drive wheels
- Anti-tip wheel
- Lithium Battery in a Nylon Battery Bag
- Battery charger
- Accessories
- User Manual

Contents of this manual cover assembling the trolley, operating instructions, maintenance, and troubleshooting. Please note that our design and manufacturing policy is aimed at continuous improvement, this can result in changes without notice to the specifications contained on our websites and in this manual. We know you are eager to get on the course, but **PLEASE READ** the entire manual before starting.

### **QUICK TIP**

*After unpacking the caddy and while reading this manual, place the battery on charger while you assemble the unit. Plug battery into charger and charger into power source. The battery may be delivered with a charge but should be placed on the charger before using for the first time to ensure full charge of battery.*

# COMPONENT IDENTIFICATION



## BASIC SET-UP

- Install the 2 large drive wheels. The wheels are unidirectional. Wheel hubs are marked “L” for left, and “R” for right as oriented behind the cart. Depress knob on the inside wheel hub and slide wheel onto axle. Fully insert wheel onto drive collar, with the four pins fully engaged. (For “free wheel” mode depress and pull wheel out  $\frac{1}{4}$  of an inch, releasing pins and making sure wheels snaps into groove on axle.)



- Install rear anti-tip wheel. Under axle pull out the anti-tip wheel lock pin and slide anti-tip wheel in frame until locked.
- Lift handle from lower caddy frame. You may need to lightly hold down lower frame with your foot.
- Lift upper handle and extend handle fully to desired position. Lock into position with black locking knob.

- Place battery in tray. Insert battery cable into battery port, making sure to align pins. Depress silver spring lock before removing cable. To power on the cart, press and hold the on/off switch until you see a solid blue LED.
- Load golf bag onto caddy. Balance weight of golf bag equally 'side to side'. Secure golf bag with bungees.
- Securing your golf bag on the cart locks the cart in the "open" position. It is important that both top and bottom bag straps are tight, and your bag is firmly secured in the bag rests.
- Insert three AAA batteries into the remote control. Turn on the remote control by depressing the left/right arrows (blue buttons). Remote will show three blue flashes indicating it is on.

## PRECAUTIONS & IMPORTANT CARE INFORMATION

- 1) A normal cart bag will result in best caddy performance, where lightweight stand or carry bags may not work well for you. For best performance heavy cart bags are preferred. **If you use a carry bag or stand bag you will need to add weight.** (See # 5 below)
- 2) Consider the all-around weight distribution of your golf bag. Ensure the bag is balanced evenly side-to-side. Uneven weight distribution may lead to “tracking errors” i.e. too much weight on the right side will cause caddy to veer to the left.
- 3) The front wheel must stay grounded during play. The only exception is on steep inclines. Your GRi-1500Li should only tip onto the rear wheel when on extreme inclines (Over 25° inclines).
- 4) On steep inclines if the front wheel *does* come off the ground use manual mode to guide the caddy. Avoid steering the caddy with the remote if the front wheel is off the ground. Using the remote in this situation can lead to gearbox damage.
- 5) If you are having issues keeping the front wheel down on the ground, consider adding a water bottle of sand inside a low pouch in your golf bag to increase the weight over the front wheel. Equally distribute the weight, use the center pouch or equal weight added to each side pocket.
- 6) Do not pull the cart backwards while riding in a power cart.
- 7) **IMPORTANT TIP.** *Do not use the ‘parking brake’ button when going down steep inclines.* For best control of caddy, use the ‘reverse’ arrow to decrease speed. If you need to stop your caddy on the incline, turn the caddy perpendicular (across) the hill and hit the ‘coast’ button and then the ‘parking brake’ button.
- 8) Periodically spray the front wheel bearings with WD-40.
- 9) Do keep a set of fresh unopened AAA batteries in your golf bag for your remote. Replace remote batteries if you experience missed commands.

## BATTERY MAINTENANCE

- Before using your cart for the first time you will need to charge the 24 Volt caddy battery. Charge until the charger light indicates a full charge.
- The LED on the charger will be solid red when charging. Following a complete charging cycle, the LED is solid green.
- Unplug battery from caddy when not in use.
- Always recharge battery after use. Never leave the battery in an uncharged state. Even if you only play 9 holes, charge the battery after use.
- During periods of inactivity, charge your battery every 12 weeks. Do not leave the charger connected to the battery for more than 1-2 days. Disconnect the battery once charged.
- Frequently inspect the round battery plug. Ensure that the round plug is screwed tightly.

**Tight XLR Plug**



**Loose XLR Plug**



## POWERING YOUR GRI-1500LI

Place your battery into the battery tray and plug battery cable into the caddy. Always press the silver spring lock on battery cable when inserting and removing battery cable from caddy. If the round plug at the end of the cable becomes loose, re-tighten. (see previous picture)

When you first connect the battery to the caddy, the BLUE LED on the handle will slowly flash. This is “Standby” mode. Push and hold the button on the end of the handle until the BLUE LED is solid.

## PUTTING YOUR TROLLEY INTO MANUAL MODE

- Turn speed dial back to zero – counter clockwise.
- With the caddy turned on (solid blue LED), Press the On/Off button once – Blue light will have a long solid blue LED with a quick flash indicating you are in manual mode.
- Rotate speed dial clockwise to increase the speed of caddy.
- Rotate speed dial counter-clockwise to decrease the speed of the caddy.
- In manual mode there are three ways to stop your caddy.
  - ✓ Turn the speed dial backwards, to zero.
  - ✓ Push the On/Off button on the end of the handle.
  - ✓ Push the “Stop” button on the remote control.
- To resume use in manual mode, either press the on/off switch to resume the currently set speed, or turn the speed dial back to zero and then turn the speed dial clockwise to the desired speed.

## REMOTE TRANSMITTER



- To turn the remote ON: Press both left and right turn (blue buttons) until remote LED flashes blue three times. The remote is now ready for use.
- To turn the remote OFF: Press and hold Park button until remote LED flashes red 3 times.

*If the remote has no button presses in 30 minutes, it automatically turns off to conserve battery life.*

## REMOTE CONTROL MODE

- When the BLUE LED light on the caddy is solid you are ready for remote control transmission.
- Turn on the remote. (hold both blue buttons)
- Push the directional buttons to move the caddy.
- By pressing and holding Left or Right turn, the caddy will turn on itself.
- While caddy is moving forward, a quick push of 'left' or 'right' arrow button will adjust the caddy's direction.
- To increase the speed. Press the 'forward' button. To decrease speed, press the 'reverse' button.
- To stop the caddy on level ground, use the 'Stop" Button.
- To stop the caddy on an incline, turn caddy across the hill, hit the Stop button and then hit the Park button to activate the electronic parking brake.
- The range of the transmitter is 50 – 100 yards depending on environmental conditions. The caddy cart will stop when it is outside of the remote transmitters range.
- We recommend you operate your caddy within 10-20 yards for best control and visibility.
- For your protection the caddy has a 60 second timer. To prevent the caddy from stopping, create the habit of re-tapping your last command every 40 to 55 seconds. Any button press will restart the timer and prevent the caddy from stopping. (Generally, just give the 'forward' button a quick tap). If the remote is not pressed within 60 seconds, it will stop. Simply press another button on the remote to restart.

## PROGRAMMING YOUR CADDY

The caddy electronics may be customized for your personal preferences. All programming customization is done via the remote transmitter. Using "Program Mode" you can adjust the electronics to:

- Tracking issues- If a caddy veers off to one side, read all tracking information under 'Precautions' on page 7 and 'Troubleshooting' on page 16, before using electronic tracking adjustment.
- Adjust 'Turning Force'- Depending on your course, flatter golf courses require less turning force than hilly or undulated golf courses.
- Reset Caddy back to original Factory Settings- This is useful if your caddy accidentally gets programmed or you program it and you do not like the new settings.

### **QUICK TIP**

*When first using your caddy, practice in a large open area. Take the time to practice the difference between a single touch of a key and a prolonged push especially with left and right functions. Also get comfortable with the coast and parking brake buttons. Practice turning the caddy perpendicular to hills when parking on an incline.*

**For the instructions below that say “go into program mode”, follow these instructions:**

Press both speed 1 and speed 2 (green buttons) until blue LED double flashes to get into programming mode. The cart will move forward at a slow speed at this time.

*If the cart does not move, repeat as your caddy is not yet in program mode.*

**Store personal speeds (NO need to go into program mode)**

- Choose your desired speed with remote up and down buttons for the speed you are setting. Press and hold the number you want to set it (i.e. #1) to until the LED turns solid blue, then without releasing the numbered button, press and hold the stop button until the blue LED turns off. The cart will come to a stop first, then the LED on the remote will turn off.
- Button is now set to new speed.

**Adjust Tracking I.e. Caddy trails off to one side or the other on flat ground.** Electronically adjust tracking only after adjusting bag weight. (Instructions for front wheel axle adjustment are in the troubleshooting section, “my caddy does not track in a straight line”, later in this manual).

- **Go into Program Mode.**
- To adjust the caddy to the left, press ‘left’ button once. Or to adjust the caddy to the right, press the ‘right’ button once. Two button presses adjusts the tracking about one foot to either side, in a 25-foot run.
- To save the setting, push the ‘Parking Brake’ button.
- Test the caddy to see if you need further adjustment. Repeat as needed.

**Adjust turning force.** You can increase or decrease the speed at which the caddy turns.

- **Go into Program Mode.**
- Press the reverse button to stop the caddy.
- Press forward to increase turning force or reverse to decrease the force. Press and hold the button until your LED becomes solid then turns off for an incremental adjustment.
  - To test if your force is correct, press left or right. Repeat adjustments or save the turning force adjustments by pressing Park.

**Return all Programing back to Original Factory Settings.**

- **Go into Program Mode.**
- Press the 'reverse' button to stop the caddy.
- Press numbers 1, 2, 3, 4 then the 'Parking Brake' button. Your caddy should be at factory settings.

**Matching a "New Remote Transmitter" to your caddy.** Should you need to replace your remote transmitter, you will need to pair (match) it to your GRI-1500Li. (NO need to go into program mode.)

- Put caddy in standby mode (battery plugged in, and flashing BLUE LED)
- Press and hold speed 3 & 4. The Remote LED with flash blue, then light red/blue at the same time. Release speed 3 & 4. The Blue LED on the Cart will rapidly flash 9 times. You should now be paired.
- Power on the cart by holding the On/Off button until you achieve a solid blue LED.
- Test all remote buttons.

## TROUBLESHOOTING GUIDE

*My caddy will not show any indicator LED on the caddy handle.*

1. Ensure Caddy Battery is plugged into the Caddy receptacle.
2. Have a full charge on Caddy Battery. 3-6 hours, and battery charger should show green.

*My caddy will not show a solid BLUE indicator LED on the caddy handle.*

1. Make sure you can get a flashing BLUE indicator LED first.
2. Press and hold the On/Off button for 3 seconds

*My caddy is turned on (solid BLUE LED), but my remote will not work.*

1. Verify your remote is turned on – flashing LED on remote when buttons are pressed.
2. Try restarting the caddy by disconnecting the battery for 5 seconds (blue LED on Cart has turned off), then powering the caddy back on. Test remote again.
3. Ensure that the remote has a flashing Blue LED when pressing a function button. If not, replace batteries in remote.
4. Pair remote transmitter to caddy cart receiver. Follow the directions in the manual: Matching a New Remote Transmitter to your Cart (Page 14).

*My caddy Battery Charger isn't switching over from Red to Green.*

1. Verify charger has green 'ready' light, before plugging in battery.
2. Ensure both the battery and wall charger are fully plugged in.

*My caddy will not make 18 holes.*

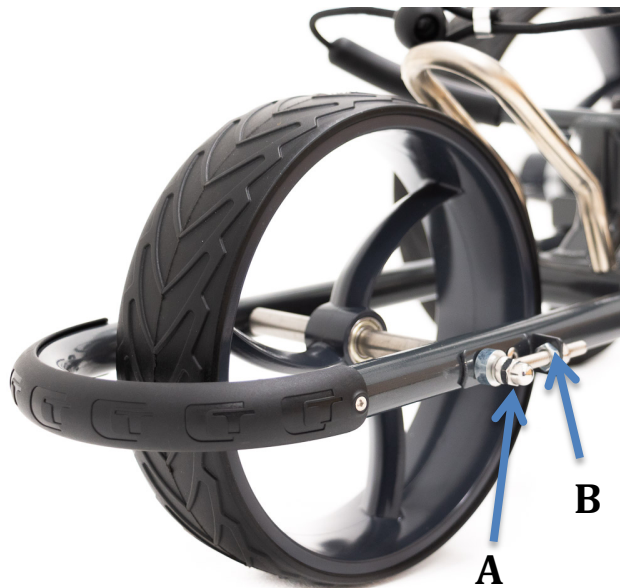
1. Verify that your charger is flipping over to green, after turning Red.
2. Ensure both the battery and wall charger are fully plugged in, when charging.

*My caddy has erratic steering (i.e. Spins to the right/left, goes forward/backwards when pressing right/left).*

Ensure both wheels are fully engaged into the drive collars, located on the axles.

*My caddy does not track in a straight line.*

1. Balance golf bag evenly on your caddy side to side.
2. Ensure both wheels are fully engaged into the drive collars located on the axles.
3. Reset your caddy to factory settings by following the instructions in the manual or check out our video reprogram your GRi-1500Li remote.
4. For slight drift, please adjust cart using “Adjust Tracking” procedure on page 13.
5. If caddy still does not go in a straight line, manually adjust tracking on the front wheel.
6. All caddy carts are tested to see how they track for straightness without a bag. First, double check how your caddy tracks without a bag. Use this as a guide for testing with the bag. If your caddy is going off track more than 3 feet within 20 yards, the easiest first thing to do is to check the weight distribution of your bag. How is it sitting on the caddy, is it sitting evenly with the weight evenly distributed between left and right sides? If the weight distribution does not solve your issue, you may need to fine-tune the tracking by adjusting the front wheel axle. To fine-tune the front wheel axle is to move the front wheel axle forward on the side the caddy is tracking towards.



Loosen both ends of the axle cap nuts (A). If the cart tracks to the left move the left side of the axle forward via the adjustment nuts (B) Test the tracking after each adjustment. It should only take 1 to 3 adjustments.



*My caddy stops unexpectedly during a round.*

1. The GRI-1500Li is equipped with a 60 second timer that stops the caddy if you do not press additional buttons, within that time period.
2. Check indicator LED's on end of caddy handle.
  - No light – Make sure your battery is connected to the caddy receptacle.
  - Rapid flashing BLUE LED is an overload high current warning. Stop and Allow caddy to cool down. This can be caused by too much weight on your caddy or trying to climb too steep of hill.
  - Flashing BLUE LED is standby mode, you have temporarily lost and regained power. Check battery cable/connections.
  - Very Slow Flashing BLUE LED is low voltage warning. Stop, do not use the battery, and recharge battery.
3. Ensure the AAA batteries in the transmitter are fresh.
4. Due to on board electronics, there might be environmental interferences causing your caddy to stop. These may include, but are not limited to: microwaves, cell towers, high voltage electrical power lines, et cetera. If the caddy always stops at the same place every time you play, then it is likely environmental interference.

*My caddy will not move, what can I do?*

If your caddy experiences some kind of failure on the course and you cannot get it running, you can put the caddy in “free wheel” mode.

1. Press the blade on the inside wheel hub and pull wheels out of drive collar and lock wheels into groove on axle. Ensure that the wheel is locked onto the axle.
2. In free wheel mode you can pull the caddy backwards. USE CAUTION: Wheels can disengage on sharp turns or excessive speed when going backwards.

If troubleshooting did not help you solve your problem, please do not hesitate to check our website: [www.carttek.com](http://www.carttek.com) or call Cart-Tek directly, to speak to one of our qualified technicians.

## IMPORTANT CUSTOMER CARE INFORMATION

1. For best performance heavy cart bags are preferred. If you use a carry bag or stand bag you will definitely need to add weight. (See # 6 below)
2. Your golf bag should be secure in the upper and lower bag rests, with bungees tight. The bag should not move around on the caddie.
3. Consider the all-around weight distribution of your golf bag. Ensure the bag is balanced evenly side-to-side. Uneven weight distribution may lead to “tracking errors” i.e. too much weight on one side will cause caddy to veer to that side.
4. The front wheel must stay grounded during play. The only exception is on steep inclines. The front wheel down improves the cart steering control.
5. On steep inclines if the front wheel does come off the ground use manual mode to guide the cart. Do not steer the cart with the remote if the front wheel is off the ground. Using the remote in this situation can lead to gearbox failure.
6. If you are having issues keeping the front wheel down on the ground, consider adding a water bottle full of sand inside a low pouch in your golf bag to increase the weight over the front wheel.
7. **Do not use the brake button when going down steep inclines.** For best control of cart use the reverse arrow to decrease speed. If you need to stop your cart on the incline turn the cart perpendicular (across) the hill and hit the brake button.
8. Periodically spray the front wheel bearings and the anti tip wheel bearings with WD-40.
9. Do keep a set of fresh unopened AAA batteries in your golf bag for your remote. Replace remote batteries if you experience missed commands.



**FOR WARRANTY, SPARE PARTS AND ACCESSORIES**



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