



User Manual



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Customer Support Contact Information

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Our Mission

Here at FTR Systems, we are committed to excellence in providing the highest level of customer service. We believe that maintaining effective policies, a positive attitude, and providing swift responses will result in a valuable, long-term relationship between our company and the customer.

To Our Amazing Users

Thank you for purchasing the CaddyTrek! We hope that our product will meet and exceed all of your expectations. As a valued customer, your comments and opinions are very important to us. If you have any questions, concerns or comments, we hope you will bring them to our attention.

The CaddyTrek is a robotic golf caddy that uses cutting edge technology to provide a healthy alternative for our favorite pass time – golf. Walking is proven to raise levels of concentration and take strokes off of any golf game. The CaddyTrek allows a user to be able to walk without the hassle or pain of carrying your bag.

This user manual contains all essential information for the user to make full use of the CaddyTrek unit. The manual includes descriptions of the system functions and capabilities, contingencies, alternate modes of operation, and step-by-step startup and use.

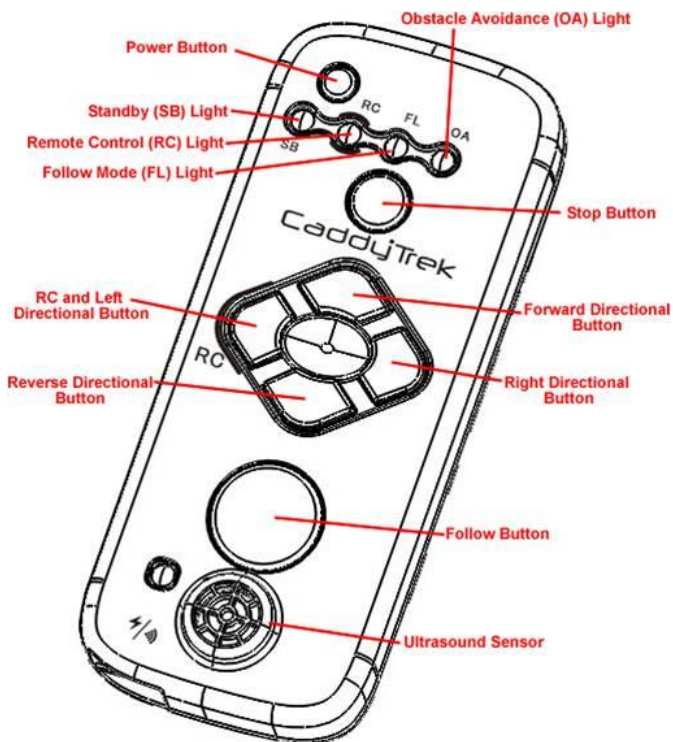
I. UNIT OPERATION

Getting Started

Familiarize yourself with the handset layout.

Understanding how to quickly maneuver the unit is essential in avoiding an accident and getting maximum benefit out of the CaddyTrek.

The CaddyTrek is intended for outdoor use only, so practice in a wide-open area away from obstacles.



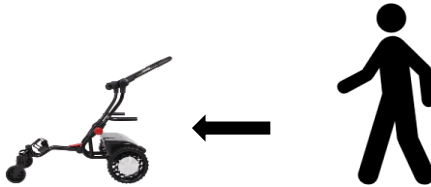
I. UNIT OPERATION

Powering up the CaddyTrek

1. Power on the CaddyTrek by pressing the far left button on the dashboard



2. Position yourself behind the large wheels of CaddyTrek, then power on the handset. Point the handset towards CaddyTrek to establish communication. You will hear two short beeps once the communication link is established.



3. CaddyTrek will be in the Standby Mode (SB) with the SB LED light flashing.

Charging the Battery

Charging the battery and handset can take place practically anywhere there's an outlet. Garage or storage area is probably most practical.



The charger works on a regular 110 volt outlet and charging time takes about six to seven hours.

Plug the charger into the charger port located on the battery inside the electronics box.

I. UNIT OPERATION

Standby (SB) Mode

Standby (SB) Mode is a starting point for all other CaddyTrek modes. When turned on the unit will automatically enter into SB mode and wait for further instruction from the user.

While in SB mode:

1. CaddyTrek's wheels will be locked.
2. The unit will automatically sync with the handset.
3. You should not push the CaddyTrek.

Manual Push

1. Make sure CaddyTrek is on level ground.
2. Make sure CaddyTrek and the handset are powered off.
3. Guide CaddyTrek with the push bar.
4. CaddyTrek will not automatically brake when the power is off, so use caution on hills and steep slopes.

Remote Control (RC) Mode

1. Power on the CaddyTrek.
2. Position yourself behind the large wheels of CaddyTrek with your chest facing the caddy.
3. Hold down the "Left" directional button until the handset emits a short beep and the RC light will turn on.
4. Press the STOP button once to stop the unit. CaddyTrek will remain in RC Mode.

I. UNIT OPERATION

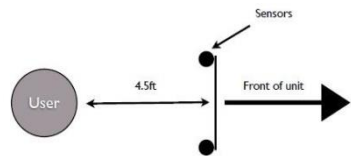
Follow Mode

1. Position yourself in front of the large wheels of CaddyTrek with your back facing the caddy.
2. Clip and center the handset on your back waistline or belt
3. Hold the Follow button (you will hear a short beep).
4. Start walking and the CaddyTrek will follow at your pace.
5. To stop the CaddyTrek while in Follow mode, press Follow or Stop.
6. CaddyTrek will go into SB mode which will be indicated by one long and one short beep.



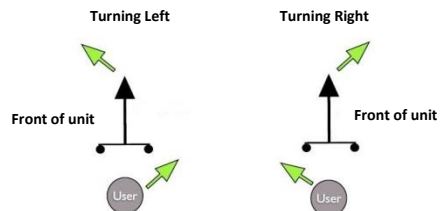
Marching Mode

1. Power on the CaddyTrek and handset.
2. Stand 4.5 ft. from the unit and between the sensors.
3. Make sure the handset is facing the unit.
4. Hold down the right directional button.
5. Move towards the CaddyTrek to engage unit.



Turning the unit while in Marching Mode:

1. Move one-half step in the opposite direction.



Exiting Marching mode:

1. Press the STOP or FOLLOW buttons on handset.

The user moves to the Right, and the unit turns Left at the same pace.

The user moves to the Left, and the unit turns Right at the same pace.

I. UNIT OPERATION

Grouping Mode

1. Gather the players in the group that will be golfing and that also have qualified CaddyTrek units.



2. While all handsets are in Standby (SB) mode and standing within five feet from each other, press the remote directional buttons in the following sequence: UP, DOWN, LEFT, RIGHT. Wait for all players to complete the sequence and then press STOP together.



3. If done correctly the handsets will flash the four lights in sequence, indicating that the handsets are searching for the other players.

Problems Grouping

If one or more players did not do this correctly they will have ten seconds to try again while the successful handsets are still searching (the lights will still flash in sequence).

If some players become grouped (the SB light and the OA light will blink together at the same time on all handsets that have successfully grouped) the players who are grouped should re-enter the button sequence to break the group and try again.

4. Once successfully grouped, the SB light and the OA light will blink together at the same time on all handsets.
5. The group will not break until the button code is re-entered or if all of the units have been powered of for an extended period of time.

I. UNIT OPERATION

Additional Handset Commands

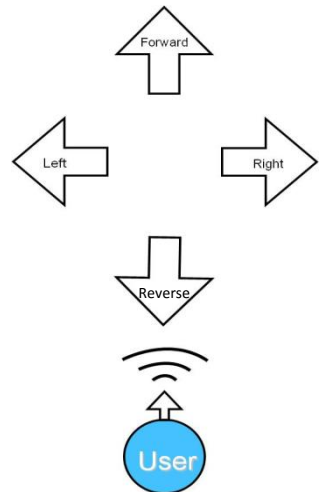
Note: all codes must be done from Standby (SB) mode. The CaddyTrek powers up in SB mode and returns to SB mode upon exiting any other mode.

1. Mute the sound of the handset.
 - a. Press: DOWN, DOWN, DOWN, DOWN, STOP
2. Free the wheels of the cart while it is still on. Note: Great for freeing the unit and for lifting onto high curbs.
 - a. Press: UP, UP, UP, UP, STOP



Using the Directional Buttons

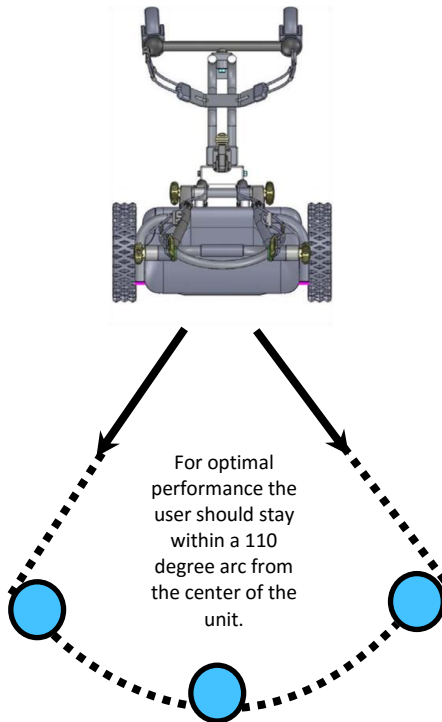
- Press the Forward, Reverse, Left or Right directional buttons to move CaddyTrek in the desired direction.
- Holding down or repeatedly pressing the Forward button will accelerate CaddyTrek to its maximum forward speed
- While the unit is moving forward, repeatedly pressing the Reverse directional button will slow the unit to a stop. Once stopped, pressing once more will reverse the unit.



I. UNIT OPERATION

Tips for High Level Tracking

1. Make sure the handset is charged to at least two lights.
2. Make sure that nothing is blocking the sensors on the unit or the handset, such as a shirt or towel
3. Place the handset as close to the center of your back as possible. This will make the unit follow directly behind, opposed to lagging off to one side or the other.
4. Make sure that the handset sensor has a clear line of site to the unit sensors. Do not try to initiate Follow Mode unless you are directly in front of your unit.



II. PRECAUTIONS

Troubleshooting Procedures

- CaddyTrek is designed for use in wide open spaces only. Do not operate CaddyTrek in enclosed or confined areas. Abnormal or erratic behavior can be caused by radio frequency signals/interference, Wi-Fi or similar electronic signals.



DO NOT let any object or towel block or hang in front of the sensors.

- Make sure handset sensor and unit sensors are facing each other with a clear line of site for best Follow Mode results. While in Follow Mode take sharp turns at a slower pace.

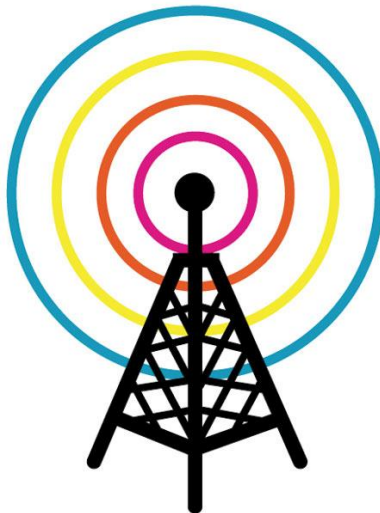


- Use caution when operating CaddyTrek in a confined area, on steep slopes and side hills. We suggest only using Follow Mode in wide open spaces and remote control on hills, confined spaces, and around people. Walk slowly and guide CaddyTrek carefully to clear hazardous areas, bodies of water, bunkers, cliffs, and other obstructions. We recommend that you practice and familiarize yourself with the operation of CaddyTrek and how its sensors follow your handset before using on the golf course.

II. PRECAUTIONS

Outside Interference

- Overhead power lines and nearby radar towers, airports or air bases, can cause interference while using Follow Mode. Use Remote Control Mode near power lines and radar towers for less interference and better results.
- Sand, crushed stone and uneven surfaces may cause Follow Mode to be less responsive.
- Do not direct CaddyTrek towards people or other carts.
- Do not discard the original shipping carton/box after unpacking your CaddyTrek. Should your CaddyTrek need to be shipped for service, repacking in the original shipping box would be needed. Keep the box in a safe and dry place.



III. FREQUENTLY ASKED QUESTIONS

What allows the CaddyTrek to follow you hands free?

CaddyTrek is a proprietary robotic system with advanced sensing and motion control technology. Sensors on CaddyTrek pick up signals from the remote handset worn by the golfer to determine distance and angle.

How fast will the CaddyTrek follow or move?

CaddyTrek can travel up to 4 mph and typically follows within 5 yards of the golfer while in Follow Mode. CaddyTrek can move faster in RC Mode by pressing the forward directional button on the handset.

How many holes of golf can I play on one full charge of the battery?

CaddyTrek can be used for up to twenty seven holes depending on the golfer and the course being played. We recommend charging the battery after a round of golf to always ensure it can be used for maximum play. Note: parking CaddyTrek on hills could reduce playtime.

Can the CaddyTrek be used in a group of golfers also using CaddyTrek?

CaddyTrek can be used in groups as large as four because the handset and signals are paired specific to each specific unit.

What happens if it rains and my CaddyTrek gets wet?

The battery is enclosed in a weather resistant housing to eliminate exposure to rain or any outdoor elements. The rear wheel motors are also enclosed and encased to prevent exposure to rain and other outdoor elements. The handset can withstand limited exposure to moisture, but continued exposure to rain or wet conditions is not recommended.

III. FREQUENTLY ASKED QUESTIONS

Will the CaddyTrek avoid obstacles and avoid collisions?

In Follow Mode, CaddyTrek will follow wherever the golfer goes at his/her pace. Avoid bunkers, people, and bodies of water.

Who can I contact about any issues concerning my CaddyTrek?

For technical problems with your CaddyTrek, contact customer service at 702-982-6598 or email at support@caddytrek.com.

Can I purchase any accessories for my CaddyTrek?

CaddyTrek has added new accessories and you may purchase them through our website.

Can I purchase an additional battery or handset?

Additional batteries and other parts can be purchased through our website at www.caddytrek.com

I've powered on my CaddyTrek cart and handset, yet I cannot operate the unit or engage any of the modes. What do I do now?

Begin with powering off CaddyTrek and the handset. Next, remove the battery from the handset and wait five to ten seconds. Reinsert the battery into the handset. Power on the CaddyTrek, then power on the handset.

Your cart and handset should now sync automatically. If it does not sync automatically, hold down the "Stop" button and press the "Up" button multiple times until the handset beeps, acknowledging a successful sync.

Syncing is signified by two short beeps coming from the handset. Once the sync has been established, you are now able to operate the unit.

III. FREQUENTLY ASKED QUESTIONS

Why won't my handset power on? I pressed the power button.

Press and hold the power button on the handset firmly for two to three seconds.

Why won't my CaddyTrek cart turn on? I pressed the power button.

Assure that you have completely pressed down the power button on CaddyTrek. CaddyTrek is powered on when the unit beeps, the intermittent green LED located on the power button on the unit is visible, and the wheels are locked.

My CaddyTrek is beeping three long beeps and it won't stop. This is disturbing my game as well as other players on the course. What can I do?

The charge level on the battery is low and it needs to be charged.

I've plugged the CaddyTrek cart and handset to the charger but it's still beeping three long beeps. How do I get this beeping to stop?

Ensure that the connection between CaddyTrek and the charging adapter is secure and that the plug is securely connected to the power outlet. This should resolve the issue; the beeping may continue for a short while until the batteries have accumulated some power.

If the beeping continues, try using a different battery charger for this particular CaddyTrek unit.

Can I ride or let my friends ride on CaddyTrek?

This device is designed to carry golf bags and CaddyTrek accessories only - not people.

III. FREQUENTLY ASKED QUESTIONS

Can the CaddyTrek follow you up and down hills?

Though it is recommended to use Remote Mode for hills, the CaddyTrek does have the ability to follow you up and down most hills as long as it is within a 25 degree grade. You must walk slowly and consciously to be successful in having the CaddyTrek follow up and down hills.

NOTE: Avoid hills with terrain composed of loose dirt or sand.

Should I let CaddyTrek follow me into the bunker?

Like your golf ball, the bunker is a bad place for your CaddyTrek. The unit does not perform at its best on loose dirt or sand and we recommend that you do not let the unit within three feet of the bunker's edge in order to prevent accidents.

I'm a first time user of CaddyTrek and I'm concerned about safety. Is there something I can do in the event that I may lose control of the CaddyTrek?

The first thing to keep in mind is to never misplace the handset as this is what controls the unit. Whenever you are in doubt, whether it is during Follow Mode or Remote Mode, you can press the STOP button multiple times to revert to Standby Mode. This will lock the motors and stop the unit immediately. Practice this exercise and learn to do it well.

What is OA?

OA stands for "Object Avoidance." This mode is just like follow mode except it detects and avoids hitting objects that come in its path, between the user and the cart. This mode is not ready to be released so disregard it until further notice.

III. FREQUENTLY ASKED QUESTIONS

CaddyTrek usually follows great but sometimes it spins out or loses connection even on wide and flat open ground. What is the cause of this?

There are two main causes for this:

1. Electronic Interference

Other electronic devices like Wi-Fi routers, cellular phone towers, and low flying aircraft can interfere with the functionality of the CaddyTrek. The only solution for these types of instances is to remove yourself and the CaddyTrek from the interference pocket using Remote Mode. Move 25-50 feet from the interference pocket and attempt to use the Follow Mode once more.

2. Obstructions to Line of Sight

Our follow technology operates by A sensor sending out a signal to the handset. The handset then returns the signal to sensor B and the position is calculated between the three points. When physical objects are between the sensors like a shirt, towel or jacket, the signal can become disrupted. When using Follow Mode make sure there is nothing between the front face of your handset and the sensors on the unit.

IV. MAINTENANCE

Introduction

This chapter is designed to educate users on how to keep their CaddyTrek unit in ideal operating condition.

Though the frequency to perform maintenance tasks are recommended, it may be necessary to perform certain procedures more or less frequently depending on use. Owners must use their best judgement in maintaining their CaddyTrek.

Tools and Materials

- 3 mm wrench
- 4 mm hex wrench
- 5 mm hex wrench
- 6 mm hex wrench
- Phillips screwdriver
- Small flathead screwdriver
- Needle nose pliers
- Brush
- Rags
- Cleaning solution or water
- Bearing lubricant



IV. MAINTENANCE

Caster Wheel Assembly Maintenance

The Caster Wheel Assembly requires a high level of maintenance. Dirt and grass often get stuck in or around the caster wheel and caster wheel fork. If you let it accumulate, it will weaken the caster wheel.

After a day out on the golf course, before storing your unit, lightly brush the dirt and grass off the assembly.

1. Cleaning

It is common for grass and dirt to collect in the caster fork area. Remove the caster wheel, brush away the dirt and grass that has accumulated, then wipe with a damp rag so that the caster wheel may spin freely and unhindered.

Recommended Maintenance: Every two weeks

2. Lubrication

Spray a silicon bearing lubricant directly on the caster wheel bearing to prevent it from seizing. It is recommended to remove the caster wheel to apply the lubricant, so do this while you are cleaning the wheel. Just be sure to wipe the bearing clean before applying lubricant.

Recommended Maintenance: Monthly

3. Tension

Adjust the caster wheel's tension with the 6 mm hex wrench. We recommend you adjust the caster wheel tension so that it will spin a total of five revolutions per spin.



Do not over tighten the caster wheel as this may cause damage and misalign the bearing. A caster wheel that is too tight will demand more power from the motors, which in turn will drain the battery at a quicker rate.

Recommended Maintenance: Monthly

IV. MAINTENANCE

Motor Wheels Assemblies Maintenance

1. Use a flat head screwdriver to remove large clumps of grass that are caught in the treads of the motor wheels.



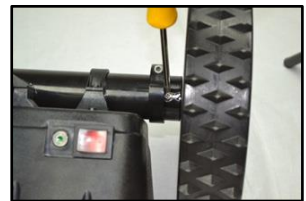
2. Once the large clumps are removed, brush off the remaining dirt and grass with a cloth.



3. There are six long screws that attach the treaded wheel to the motor hub. Using a Phillips screwdriver, check that these are well secured.



4. Additionally there is one short Phillips head screw and a 4 mm hex clamp that holds each motor onto the CaddyTrek's main frame. It is important that these are always well secured to prevent the motor wheel assembly shafts from slipping out from the mounts motor.



Recommended Maintenance: Daily

IV. MAINTENANCE

Sensors

It is recommended that you check your sensors from time to time. Make sure the plug is screwed into the electronics box securely. Check the wire and make sure it is in good shape.

Finally, inspect the sensor head. Make sure it is intact and is firmly secured to the sensor arms.



Handset

Practice cleanliness with your handset. A damp cloth works best for cleaning. Keep your handset free from dirt, moisture and impacts. Unmaintained handsets can cause your CaddyTrek unit to become unresponsive to commands or behave strangely. Test and press each button for a tactile feel and make sure it is operational. Check all modes for functionality.



Recommended Maintenance: Daily

Storage

Although the unit is made to withstand tough conditions, we recommend that the unit be stored in a clean, dry environment.

If leaving the CaddyTrek at your club, ask that the unit be stored inside or with the regular drivable cart fleet. Proper storage insures the safety and condition of the unit when not in use.



V. SPECIFICATIONS

Remote Control	Range up to 55 yd / 50 m
Motor	Dual motors total 440 watts
Drive:	Follow: Front wheel drive Remote: Rear wheel drive
Battery Type	Lithium-ion
Battery:	24V 10.5Ah Weight: 6 lbs / 2.7 kg Average Charge Time: 6 hours Lifetime: >500 cycles Warranty: 1 year
Battery Charger:	Input: 100/240V AC Output: 29.4V 1.8A DC Trickle Charger
Weight	33 lbs / 15 kg (without battery)
Speed	Up to 4 miles or 6.5 km per hour
Stopping Distance "Follow"	1.1yd / 1 m (from golfer)
Max. Detection Distance "Follow"	5.5 yd / 5 m (from golfer)
Maximum Load:	44 lbs / 20 kg

V. SPECIFICATIONS

Slope	25 degree straight uphill
Total Distance (holes)	10 mi / 16 km (27 holes)
Dimensions: <ul style="list-style-type: none">• Folded• Fully Expanded	23 x 18 x 12 in / 58 x 47 x 30 cm 36 x 34 x 23 in / 93 x 85 x 58 cm
Package Size	24 x 14.5 x 21 in / 61 x38 x 53 cm
Wheels	Polyurethane (PU)
Frame Material	Aluminum Alloy (Aerospace Grade)
Frame Color	Black
Cover Color Options	Candy Apple Red / Black
Handset Battery Type	Lithium-ion polymer
Operational Time	30 hours
Charge Time	2 hours / DC
Warranty: <ul style="list-style-type: none">• Electric box• Batteries• Motor• Handset	1 year limited warranty

Note: Illustrations on our publications may slightly vary from the actual product shipped.

NOTES
