



# OWNERS MANUAL



## FW7<sup>S</sup> GPS



All Powakaddy electric trolleys have been awarded the Quiet Mark by the Noise Abatement Society



The Powakaddy Update App Available to download from the Apple App store and Google Play

Thank you for choosing the new PowaKaddy FW7s GPS. Please read these instructions carefully. Battery care is very important, please refer to section 12 in the back of this manual for battery care instructions.

When you receive your new PowaKaddy you will have the following:

**1 x Trolley | 1 x Lithium Battery | 1 x Charger | 2 x Wheels | 1 x Instruction pack**



**IMPORTANT-** you must fully charge your battery for a recommended before using your trolley. Always recharge your battery within 24 hrs of use. Failure to do so could reduce the life of your battery.

Note: Your Lithium or Lithium Extended battery is stored in the frame for transportation. Remove the battery and activate using the isolation button located on the underside of the battery. The green LED must be illuminated when using the trolley and during charging. (See Section 2 Plug'n'Play™ for battery removal)



## 1 Getting Started

Fit the wheels by pressing the black release button and pushing onto the axle until the clutch is engaged. The wheels can be locked into two positions on the axle; push onto the inner groove to engage drive. The outer groove can be used when drive is not required. To open the frame, slide the main lock (highlighted red below) forward to release the handle latch and open as shown below.



## 2 PLUG 'N' PLAY™

Your FW7s GPS trolley features an innovative Plug'n'Play™ battery system including sprung terminals and a locking feature to maintain power connection over uneven terrain. Once your battery is charged and trolley assembled connect your battery as shown.

- Engage the rear of the battery first.
- Press the front until the battery clips into position. The trolley's power will automatically be connected.

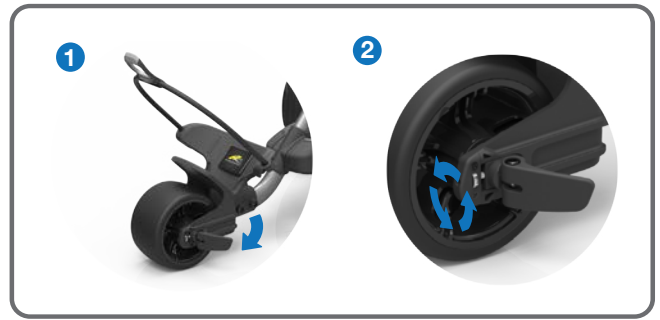
To remove the battery depress the front latch and lift the front of the battery out.

Note: The Lithium battery can be stored within the tray for transportation. Please ensure you de-activate the battery using the isolation button located on the underside. Leaving your battery on with the Green LED illuminated could lead to your battery discharging or trolley activating during transportation.



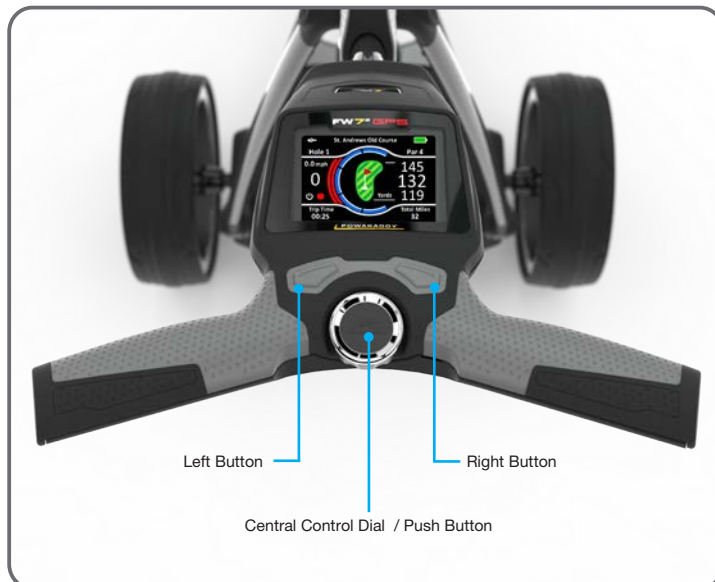
### 3 Front Wheel Adjustment

Your FW7s GPS trolley will already be pre-set to run straight. If you find your trolley is tracking to the left or right you can re-adjust this by releasing the front wheel lever and rotating the adjustment roller. Rotate up to make your trolley track more to the LEFT and rotate down to track more to the RIGHT. Once you are happy the trolley is running straight re-apply the lever to lock in position.



### 4 Controls Overview

The FW7s GPS is the worlds most intelligent trolley with fully integrated GPS capability, taking away the need to carry external devices to manage your game. Consisting of the latest technology, bright multi-function colour LCD display and cutting-edge styling combined with a powerful 230w motor.



#### Central Control Dial:

- Rotate to adjust the speed of the trolley from 0 to 9.
- Press to pause and resume your selected speed.
- Navigate menu options / press to select or enter value.

#### Left Button:

- When connected to GPS, press to move to previous hole.
- Press and hold for 1 second to toggle between trip/total time, distance and calories

#### Right button:

- When connected to GPS, press to move to the next hole.
- Press and hold for 1 second to toggle between Front, Centre & Back, Hazard mode, Shot Measure and Scorecard.

#### Left + Right button:

- Press and hold both buttons for 2 seconds to enter the settings menu.
- Press and hold both buttons for 2 seconds to exit the settings menu and return to previous screen.

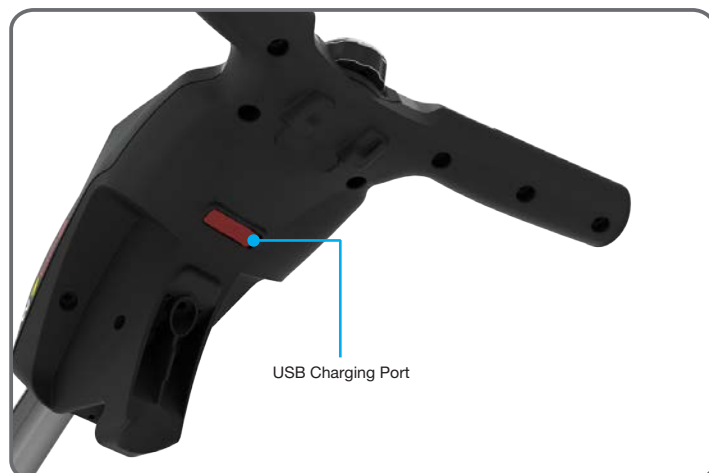
#### USB Charging Port:

- Located on the underside of the handle. Open the hatch to charge mobile devices. The output is rated to 5v/500mA suitable for most USB devices\*

\*USB output voltage 5v/500mA compatible with most USB portable devices, please check device manufacturers instructions before use. Powakaddy International Ltd accepts no liability for loss of data or damage from using the charging port with incompatible device.

#### GPS Map Updates:

- Your GPS FW7s GPS is loaded with over 38,000 course maps.
- You can update the GPS data using a smartphone or mobile device via the Powakaddy App. See section 11 Updating Your Powakaddy for more information.



## 5

### Start Up



Once your battery is charged and connected your FW7s GPS will be ready to use. The display will illuminate showing the 'Main Menu' (see left), rotate the centre control dial to select from the options and press to select the following:

#### Play Golf:

- Move the cursor to Play Golf mode using the central control dial.
- Press the central control dial to enter Play Golf.
- The trolley will start searching for GPS signal. This can take up to 3 minutes depending on location and signal strength. For best results operate away from buildings in an open sky position to receive the signal from the satellites.
- If no signal is acquired after 5 minutes, the Low Signal pop up will be displayed. Move to a better GPS signal strength area and the trolley will continue searching. (The display will return to the searching icon to reflect this).

You can operate the standard motor functions while the GPS device identifies your location and local course information. Once the device has a GPS lock the next time the trolley stops with the motor paused, your nearest 5 local courses will be displayed.

#### Demo Mode:

Will allow the user to explore the display screens and trolley function without requiring a GPS signal lock.

- Select 'Demo' from the start menu.
- The display shows the GPS searching screen and then will allow you to choose a course from a select list of courses.
- Rotate the control dial to select from the list of course and press and hold the control dial to confirm.
- The display will start in demo mode and will allow the normal trolley function.
- Press and release the right button to toggle through the GPS functions, Play, Hazard, Shot Measure and Scorecard. (Note: the information shown in demo mode is only to demonstrate the product and may not be accurate course information)
- After you have toggled to the scorecard the display will automatically return to the Start Menu.
- Repeat the steps above to start Demo mode again.

#### Settings:

Allows you to alter settings such as time, distance units and set pin locks. See Section 8 for further details.

## 6

### Trolley Controls



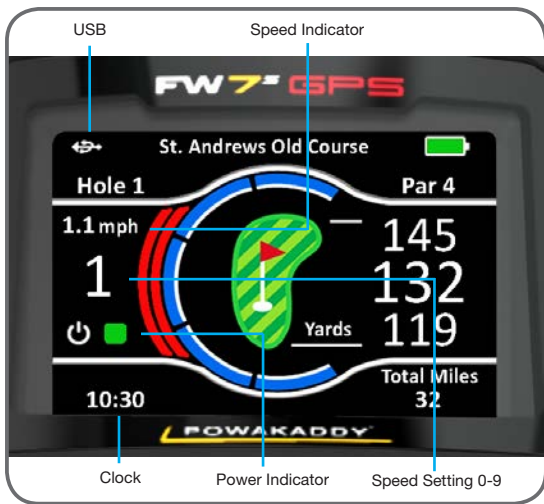
#### Battery Gauge:

The battery gauge on the FW7s GPS is displayed in the top right hand corner of the default display. The charge state of your battery will determine how much of the bar will illuminate (see left).

As you progress through the round the inner bar of the gauge will drop. When the bar has fully extinguished it indicates that the battery is flat. When your battery is new the bar may only drop a small amount during the entire round. As your battery ages, you may lose more.

If the bar is completely extinguished; (1) you may not have fully charged your battery (2) your battery is nearing the end of its useful life and should be replaced.

Removing and re-connecting the battery mid-round may cause the battery gauge to report inaccurate readings.



Once a course has been selected you will be directed to the default display which features are listed below:

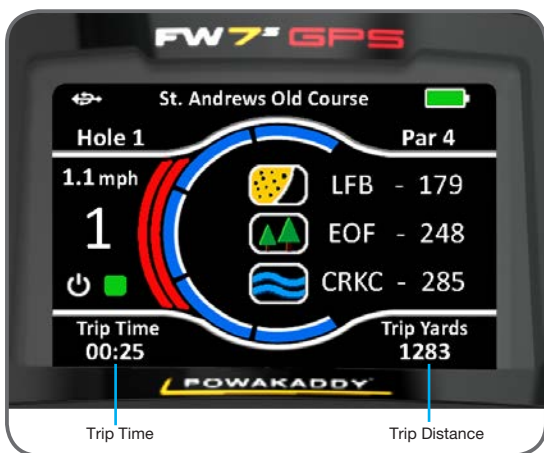
**Clock:** Displays the current time from the GPS information. To adjust the time for daylight saving hours see Settings options section.

**Yards/Metres:** The unit used for trolley distances. Change in Settings.

**Speed Setting:** Rotate the control dial to adjust the speed of the FW7s GPS from 0 to 9. Press to pause and resume your selected speed.

**Power Indicator:** When the motor is running a Green dot will be visible next to the power indicator on the left hand side. When the motor is paused a Red dot will be displayed. (The speed setting will also flash).

**Speed Indicator:** Speed of the trolley displayed in mph or kph. (Change the speed unit in Settings)



Press and Hold the Left Button to toggle between the following:

**Total Distance:**  
This displays the total distance the trolley has travelled.

**Trip Time:**  
This displays the “on” time of the trolley. This will reset when the battery is disconnected.

**Trip Distance:**  
This displays the total trip distance travelled during the round. This will reset when the battery is disconnected.

**Calories:** Displays the approx. calories burned during your round of golf. This total will be reset when the battery is removed.



### Automatic Distance Function (ADF):

The ADF mode is a convenient way of sending your trolley a set distance. For example when you are approaching a green you can send the trolley towards the next tee if the route allows. Please note it is not recommended to send your trolley unattended over steep or rough terrain. To activate:

- Press and hold the central control knob until ‘ADF’ appears on the bottom right of the display.
- Rotate the control knob to select the distance required between 5-50 Yards/Metres.
- To cancel the ADF mode rotate the Central Control Knob to “0” and select by pressing the control knob.
- To start the function press the control knob.
- You can stop the trolley in ADF mode at any point by pressing and releasing the on/off control, this will pause the trolley motor function.

**⚠ WARNING!** Before using the ADF function please ensure the route is clear from any obstacles. To interrupt the distance function when in operation press the on/off button to stop the motor function.

\*\*Please note ADF distance are approximate based on flat level terrain conditions using a fully charged battery. The overall distance may be affected by terrain conditions, obstacles or incline, battery power and weight of golf bag.



# 7 GPS Functions



### Default Display:

In the default display the hole and par information is displayed (as shown left).

Front, Centre and Back green distance information is displayed on the right hand side of the display.

While travelling from the green area to the next tee, the information will automatically advance to the next hole. Due to variations in accuracy of commercial GPS occasionally you may have to manually advance to the next hole.

- To manually advance to the next hole, press the right button.
- To return to a previous hole, press the left button.
- Your trolley will automatically start at hole 1, if you are starting from a different hole press right button and repeat until the required hole is displayed.

Press and hold the right button to toggle the GPS modes and the digital scorecard.



### Hazard mode:

Information on the hazards can be displayed for each hole. The distance is displayed on the right hand side. The measurement may be to the middle, the back or the front of the hazard depending on the description i.e CRKC - Creek Carry. All descriptions along with the simple icons are explained in the FAQ section.

A maximum of 3 Hazards are displayed on the screen at one time; the top hazard being the closest. Once the hazard has been passed the list will update. A maximum of 4 hazards are mapped per hole.

If no hazards are in the line of play to the green then the text 'No Hazards' will be displayed.

Once play has passed a hazard this will no longer be displayed for the hole. Press and hold the right button to toggle to the next GPS function.



### Shot Measure:

This simple feature conveniently allows you to measure your shot distance from tee to where your ball lands. To measure your shot:

1. In shot measurement mode, press and hold the right button for 1 second to reset the measurement to zero.
2. Then start walking to your ball.
3. The value shown on the display will be the approximate drive distance.

(Note: distance accuracy from commercially available GPS are only to approx. +/-5 yards)



### Scorecard:

The FW7s GPS model includes a digital scorecard allowing you to record the score and save for future reference.

Note: you must have the trolley stopped in pause mode to access the scorecard function.

1. When the motor is paused, press and hold the right button to toggle to the Scorecard.
2. The scorecard will automatically highlight the hole you have completed as you start the next hole. Simply rotate the centre control dial to select your score and press to confirm.



Save Card

- If you have forgotten to enter a score or need to edit a score, press the control dial to advance the hole, or press and hold the left button to go backwards to previous holes.
- Press and hold the right button to return to the default display when finished.

#### Auto Save:

After completing the 18 holes, press centre knob to save the scorecard or the left or right buttons to exit without saving. Your saved cards can be viewed in the Settings menu.

(Note: The save function is only available after completing the full 18 holes)

#### Competition Mode:

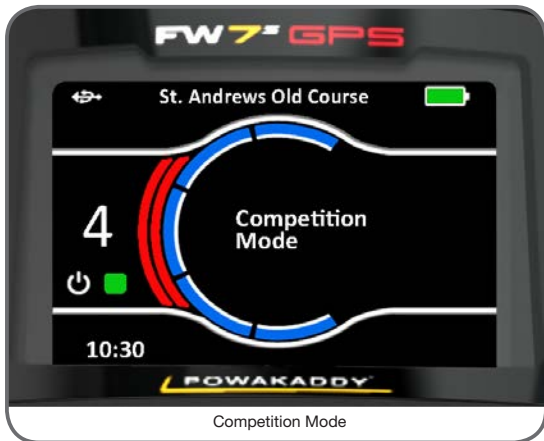
For use in competitions where distance features are not permitted. All distance measuring features will be disabled.

- Competition Mode can be activated and deactivated from the Settings menu.
- When the FW7s GPS is switched off, Competition Mode will automatically turn off, re-activating distance features for the next round.

#### Low Signal:

In certain conditions your FW7s GPS may experience a low GPS signal during start up or during play, a pop up will be displayed to indicate this. Once you move to a better signal strength area, the trolley will continue to search for a GPS lock.

The pop-up can be removed by pressing any button.



Competition Mode



Low Signal

## 8 Settings Options

Your new FW7s GPS is ready to use, but there are a number of preferences you can change in the main menu. To enter the main menu settings:

- With the trolley powered and the default display shown press and hold both left and right function buttons for 3 seconds to enter the main menu.
- The main menu setting options will be shown (see opposite image).
- To exit the menu press either left or right buttons to return to the default display.
- To move to a setting use the rotary control dial to move the cursor and press the control knob to select the option you want to change.
- The option will be highlighted, use the rotary control to select the new setting and press the control dial to confirm.



Settings Menu Page 1



Security Pin

Options:

**Connectivity (Paired/Not Paired):** Displays connection status with mobile device. To Pair a device, see section 11 Updating Your PowaKaddy.

**Distance Units:** User can select between Yards/Miles or Metres/Km

**Time adjust:** Allows the user to adjust the clock time depending on daylight saving hours applied to your time zone.

**Competition Mode (on/off):** For use in competitions where distance features are not permitted.



Settings Menu Page 2

**Security Pin:** Your trolley can be protected by a 4 digit security code set by the user.

1. Scroll to change the PIN to ON and press the central control dial to select.
2. Rotate the control dial to select your 4 digit code, save each digit by pressing the control dial.

If the PIN lock is active you will be required to enter your PIN code each time you power the trolley. In the event you have forgotten the code use the default factory PIN : **7921** to unlock the controls.

**Shot Measure (on/off):** This option allows the user to turn off the shot measure function when not required.

**Hazards (on/off):** Allows user to turn off the Hazard function from your display option.

**Tips (on/off):** This option allows the user to turn off the tips on how to use the trolley during play.



Default Course

**Handicap:** To keep your scorecard scoring up to date, you can save your handicap and adjust as your handicap improves!

**Score Card (on/off):** This option allows the user to turn off the digital scorecard facility.

**Default course:** When using the scorecard the information on the course par will show the men's par data by default, this option allows a user to adjust the course par data where required for Ladies tees and save as a default scorecard if it is your regular course. Each time you connect the battery your default course and card data will be shown so you only have to edit the card once.

**Open saved cards:** Allows the user to open a saved scorecard. At the end of each round your latest scores are saved by course and date.

- Select the open card option - The saved courses will be displayed, showing the course name, date, Gross and Nett scores.
- Use the rotary control to select the card you want to look at and press the on/off control to access.
- Press the control dial to return to the main menu.



Settings Menu Page 3





**Demo Mode (on/off):** Allows user to turn off Demo Mode. The option will be removed from the Start Up Menu.

**GPS Version:** GPS Firmware version installed.

**Electronics Version:** Software version of the display and speed controller.

**Return to Start Menu:** Select to return to the Main Start Menu. (To return to the screen from which you entered the settings menu, hold both left and right function buttons for 3 seconds.)

Removing the battery without exiting the menu correctly may result in your preferences not saving.

## 9 Electronic Braking System (Optional Extra)



The EBS is an optional extra within the Freeway Range. The EBS has the added advantage of an Electronic Braking System (EBS) for hill decent control thus creating the ultimate machine for all conditions.

To activate the braking function:

- 1: Ensure the motor and power is on.
- 2: Rotate the control knob counter-clockwise until you go below zero. A Red minus will appear next to the speed setting to indicate the braking function. The display will show -1, -2 and -3 to indicate the level of braking force being applied, -3 being the highest.
- 3: Rotate the control knob clockwise to return to normal power settings. Note: you do not have to pause the trolley between the standard power and EBS braking mode

**WARNING!** EBS is an assisted braking system for hill descent not a 100% parking brake. The trolley must be powered on and the wheels engaged with the clutch for the braking system to function. The drive system uses a limited slip differential to allow braking and provide ease of manoeuvrability. Try to avoid traversing a steep hill as the load of the trolley will mostly be applied to the lower wheel on the slope, and may cause the higher wheel to slip. If your trolley loses traction and the wheels start to spin apply more even pressure on the handle to increase traction of both wheels. Engage the braking progressively as you descend a slope.

**Caution:** Wet or loose ground can cause the wheels to lock and slip on steep slopes. When using the maximum braking force always maintain a firm grip on the handle to assist the trolley and avoid injury or damage.

## 10 FAQ's

### My FW7s GPS pulls to one side

- Adjust the front wheel. See section 3.

### Battery power running low before end of round:

- When charging battery ensure the green LED on the battery is illuminated.
- Ensure battery is fully charged before the start of the round.

### Cannot locate my course:

- If your course is not displayed on the course select screen, restart the trolley when in close proximity to the first tee.
- We regularly update our course data. If your course is not available please let us know via the support page on the Powakaddy update App.

### How do I change the distance units?

- Enter the settings menu, rotate the control dial and press to select Distance Units. Rotate the dial to display the preferred unit then press to confirm.

### The hole will not advance

- If you have taken a shortcut away from the last green to the next tee or conditions do not allow you within normal proximity of the tee, the trolley may not auto advance. In this case you can advance manually by pressing the right button.
- Move back to the previous hole by pressing the left button.

### Unable to connect to GPS or No distances displayed:

- Check **Competition mode** is not enabled. Enter the admin menu and deactivate.
- Ensure you are outside away from buildings in an open sky position.
- Navigate to page 4 of the settings menu and ensure a GPS version V0015 is displayed. If not, please contact Powakaddy Support.

### My FW7s GPS is showing information from a different course

- Enter the setting menu and select Return to Start.
- Enter Play Golf and ensure you select the correct course.

### How do I reset the Shot Measurement

- Reset by pushing the right button

### I have been locked out of my trolley

- Use the default factory PIN shown in section 8
- Disable or reset in Settings

### My FW7s GPS is showing incorrect distances and hazard information

- Check the display is showing the correct hole (top left-hand corner)
- If your course is not available please let us know via the support page on the Powakaddy update App.
- Please note: a maximum of four hazards are mapped on each hole.

### Unable to Pair a device to my trolley.

- You cannot have multiple devices paired to the trolley at the same time.
- If the connection fails during the pairing process; the best course of action is to restart the mobile device and trolley before trying again.

## Hazards

### Fairway Hazards



LFB - LEFT FAIRWAY BUNKER  
Distance taken from the FRONT of the hazard



MFB - MIDDLE FAIRWAY BUNKER  
Distance taken from the FRONT of the hazard



RFB - RIGHT FAIRWAY BUNKER  
Distance taken from the FRONT of the hazard



LFW - LEFT FAIRWAY WATER  
Distance taken from the FRONT of the hazard



LFWC - LEFT FAIRWAY WATER CARRY  
Distance taken from the BACK of the hazard



MWF - MIDDLE FAIRWAY WATER  
Distance taken from the FRONT of the hazard



MFWC - MIDDLE FAIRWAY WATER CARRY  
Distance taken from the BACK of the hazard



RFW - RIGHT FAIRWAY WATER  
Distance taken from the FRONT of the hazard



RFWC - RIGHT FAIRWAY WATER CARRY  
Distance taken from the BACK of the hazard

### Green Side Hazards:



BGB - BACK GREEN BUNKER  
Distance taken from the FRONT of the hazard



FGB - FRONT GREEN BUNKER  
Distance taken from the FRONT of the hazard



LGB - LEFT GREEN BUNKER  
Distance taken from the FRONT of the hazard



RGB - RIGHT GREEN BUNKER  
Distance taken from the FRONT of the hazard



FGW - FRONT GREEN WATER  
Distance taken from the FRONT of the hazard



FGWC - FRONT GREEN WATER CARRY  
Distance taken from the BACK of the hazard



LGW - LEFT GREEN WATER  
Distance taken from the FRONT of the hazard



FGWC - RIGHT GREEN WATER CARRY  
Distance taken from the CARRY of the hazard

### Miscellaneous Hazards



EOF - END OF FAIRWAY  
Distance taken from the BACK of the hazard



CRK - CREEK  
Distance taken from the FRONT of the hazard



CRCK - CREEK CARRY  
Distance taken from the BACK of the hazard

## 11 Updating Your PowaKaddy

Your FW7s GPS comes loaded with over 38,000 world wide golf course maps, but can be updated as new map data is available. The maps can be individually updated via Bluetooth using the PowaKaddy App, available to download from the Apple App store and the Google Play store.

1

Download the free PowaKaddy App from the Google Play Store or the Apple App Store.



Open the App and enter the 14 digit serial number located on the underside of the middle tube on your FW7s GPS trolley.



App Store is a service mark of Apple Inc.  
Google Play is a trademark of Google Inc.

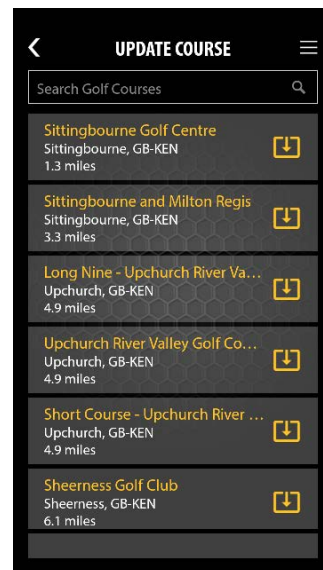
2

Power your Trolley.  
Enter the settings menu and click on the Connectivity option to pair device.  
In the App, select Pair Device. The trolley will display a 6 digit code. Enter the code into the App.



3

Once connected, return to the App menu and select update course.  
Use your mobile device GPS pinpoint your location or use the search bar. Select the required course and the trolley will begin the update. Do not disconnect the battery during the update.



### Further Updates:

You only have to pair your mobile device to the GPS trolley once, the connection from then on will be saved. Open the App on your phone and the trolley will display the connectivity icon (right). To update, simply open the App and select 'Update Course' from the menu options.

You can pair to multiple trolleys using the same device. Repeat Step 2, listed above.

Note: The motor function must be paused to perform an update.

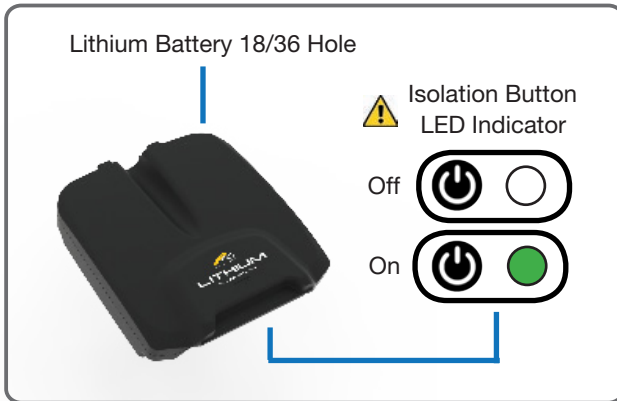


## Maintenance

- Your PowaKaddy FW7s GPS is simple to maintain.
- **Never jet wash your trolley or immerse into water.** Occasionally remove the wheels and apply grease to the axle and moving parts.
- Your serial number can be found on the underside of the main central tube and also in the box above.

SN:

Should you experience a problem with your PowaKaddy product please go to [www.powakaddy.com/support](http://www.powakaddy.com/support)



Your PowaKaddy trolley features an innovative Plug'n'Play™ battery system. To maximise your battery life please take time to read the following battery care and charging instructions.

Batteries available are as follows:

**Lithium 18 Hole** | **Lithium Extended 36 Hole\***

\*In normal conditions the Extended batteries will do 36 holes when used on a PowaKaddy trolley. Conditions such as long or exceptionally hilly courses, wet ground conditions and excessively heavy golf bags may reduce the range of the battery.

### ⚠ Important Safety Information about Batteries & Chargers

- Never submerge the battery in water.
- Never leave the battery in the trolley when cleaning the frame.
- If you suspect your lithium battery has water inside do not use or attempt to recharge.
- Never use the charger or battery if the leads, contacts or casings are damaged.
- Dropping the battery may damage the cells or circuit components inside.
- A LITHIUM BATTERY THAT HAS BEEN SUBMERGED IN WATER OR SUSTAINED DAMAGE IS A FIRE HAZARD. **DO NOT USE THE BATTERY.** Place outdoors in a non-combustible container well away from flammable materials. DO NOT RECHARGE THE BATTERY. If you consult a Service Agent, you must explain what has happened. We recommend disposing safely at your local recycling centre.
- Avoid charging your Lithium battery in temperatures below 0 °C or exposing the battery to temperatures below -5 °C or above 40 °C.
- Always place the charger on a hard, flat heat resistant surface. Do not wrap or cover as the charger generates heat during use.
- Never expose the charger to rain, moisture or damp. If you suspect any of these have occurred then do not use the charger.
- Only charge your battery using the compatible PowaKaddy charger provided with your battery.
- Never discharge your battery other than in normal use on the trolley.
- Always check with your airline before attempting to transport batteries by air.

## Charging Your Lithium Battery

- Place your battery and charger on a hard level surface and connect the battery and charger first before plugging in the mains power and switching on.
- Only charge your Plug'n'Play Lithium battery with the Green Isolation LED Illuminated.
- The charger has 2 indicator lights to represent the status of the battery during the charging process. When connecting a discharged battery, the red light will illuminate to indicate the bulk charge state. When the bulk charging process is complete, the green light will illuminate. The battery should be removed from the charger after the green light is active.
- Never leave the charger connected to the battery with the mains supply switched off.
- We recommend you recharge your battery within 24 hours of use, no matter how many holes played.
- This may take up to 7 Hours for a Lithium battery depending on the capacity of the battery and depth of discharge when charging.
- Never leave your battery in a discharged condition for prolonged periods, this will reduce the life of the battery and your charger may be unable to recharge it.
- If the battery is not to be used for long periods, our advice is to store in a cool, dry place. Please ensure the battery is fully charged before storing and charge every month thereafter.
- Ensure your Lithium battery Green Isolation LED is extinguished during transportation.
- Please refer to the product labels on your battery and charger for more information.
- At the end of the battery's life, dispose at your local recycling centre.