



OWNERS MANUAL



FW7^S GPS

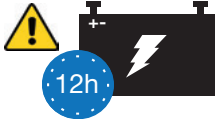


All Powakaddy electric trolleys
have been awarded the Quiet Mark
by the Noise Abatement Society

Thank you for choosing the new **PowaKaddy FW7s GPS**. Please read these instructions carefully. Battery care is very important, please refer to section 11 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 | 1 x Update Cable



IMPORTANT- you must fully charge your battery for a recommended 12 hrs 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 battery is stored in the frame for transportation. Remove the battery and activate using the isolation switch located on the underside of the battery. This switch must be in the on position 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.



A



B



C

2 PLUG' n'PLAY™

Your new 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 FW7s GPS is 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 red isolation switch located on the underside. Leaving your battery in the ON (1) position could lead to your battery discharging or trolley activating during transportation.



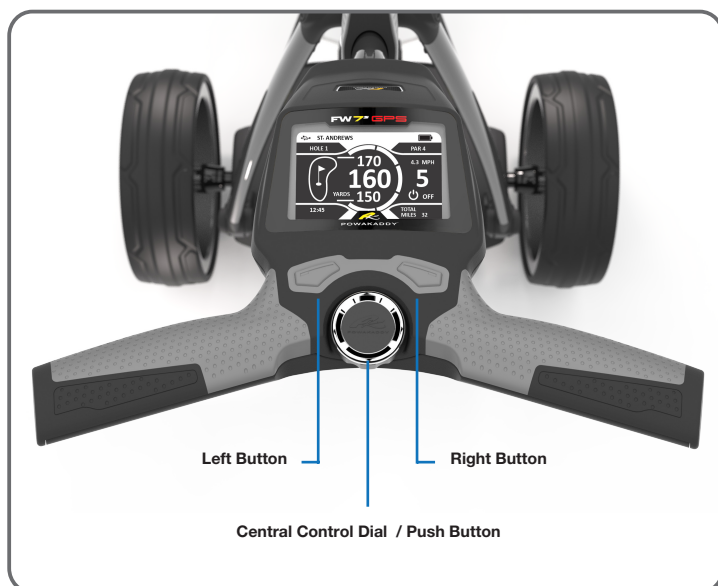
3 Front Wheel Adjustment

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 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.

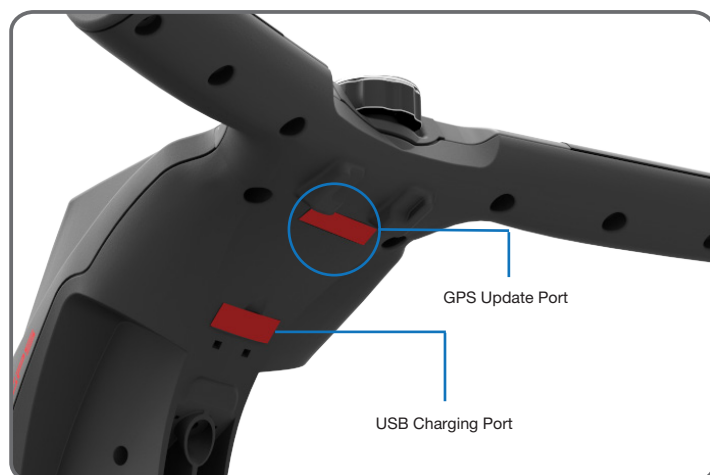
USB Charging Port:

- 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 Update Port:

- GPS device contains over 37,000 course maps.
- Connect programming cable (supplied) to Windows PC or Laptop to update see 'www.powakaddy.com/gpsupdates' 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 icon 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 your nearest 5 local courses will be displayed.

Demo Mode:

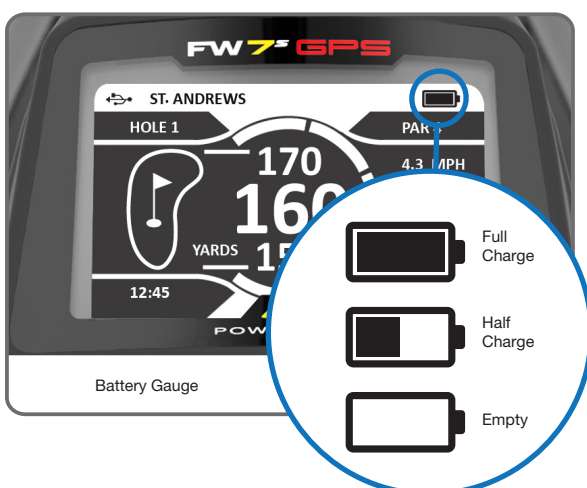
Will allow the user to explore the display screens and trolley function without requiring a GPS signal lock.

- 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



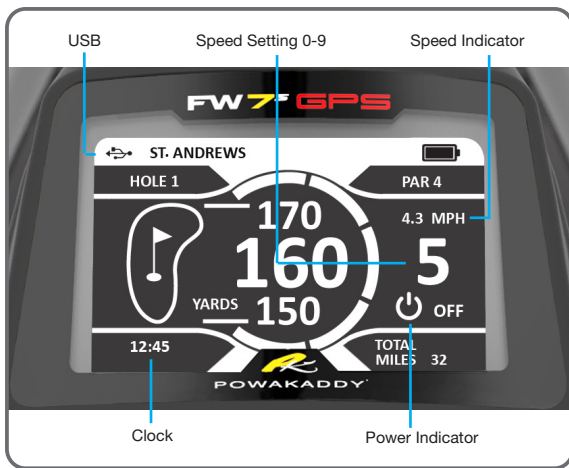
Battery Gauge:

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 it 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 have not fully charged your battery (2) your battery is nearing the end of its useful life and should be replaced.

Do not remove and re-connect the battery mid-round as the gauge may 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/Meters: The distance 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 'ON' will be displayed. When the motor is paused 'OFF' will be displayed alongside the flashing speed setting.

Speed Indicator: Speed of the trolley displayed in MPH or KMH. (Change the speed unit in Settings)

Yards/Meters: The units used for GPS measurements (Yards / Meters)

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.

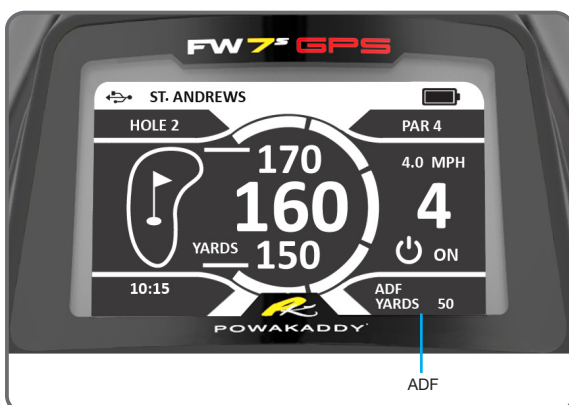
Automatic Distance Function (ADF):

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:

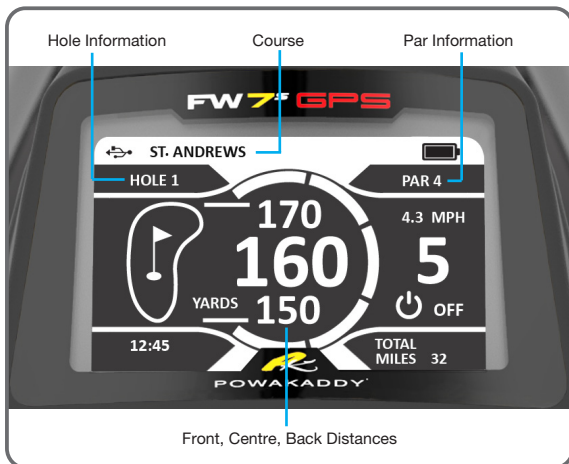
- Press and hold the central control knob until 'ADF' appears on the bottom right of the display.
- Rotate the control knob to select the distance required between 5-50 Yards/Metres.
- To cancel the ADF mode rotate the Central Control Knob to "0" and select by pressing the control knob.
- To start the 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).

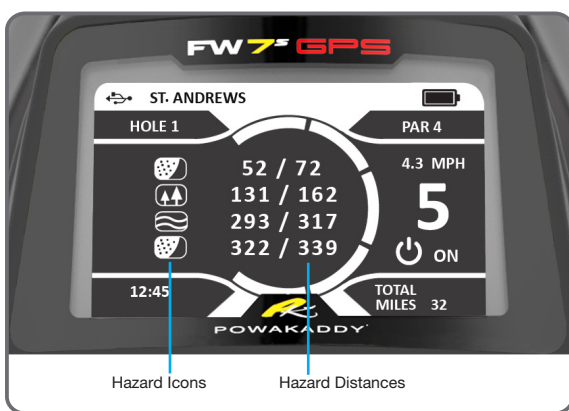
Front, Centre and Back green distance information is displayed in the centre of the display.

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 will have to manually advance to the next hole.

- To manually advance to the next hole, press the right button to return to previous hole, or 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.

(Note: this instruction works in both Play and Hazard modes)

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. If no hazards are in the line of play to the green then no hazard information will be displayed. Some holes may have several hazard features, a maximum of 4 features can be displayed, showing the distance to and beyond the hazard. The type of hazards are displayed below:

Bunker



Water



Dogleg



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 2 seconds 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.

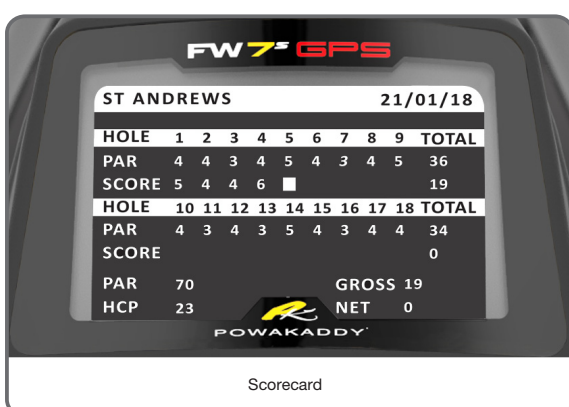
(Note: distance accuracy from commercially available GPS are only to approx. +/-5 yards)

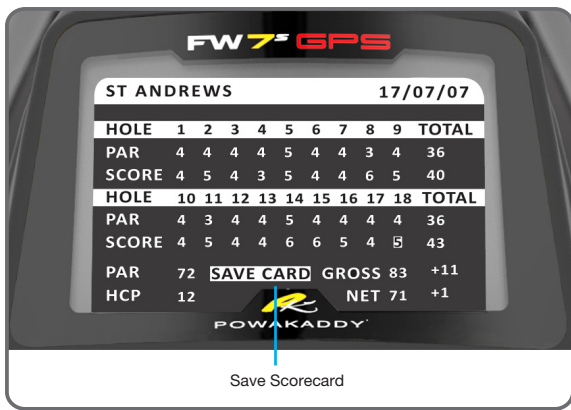
Scorecard:

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 OFF, 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 the right button to exit the score card when complete.



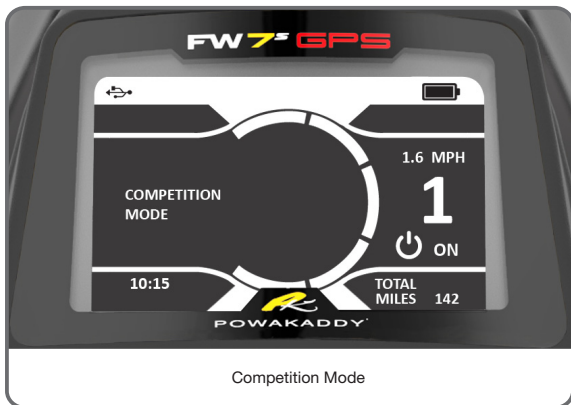


- If you have forgotten to enter a score or need to edit a score, press the control dial to advance the hole, or press and hold the left button to go backwards to previous holes.
- Press and hold the right button to return to the default display when finished.

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:

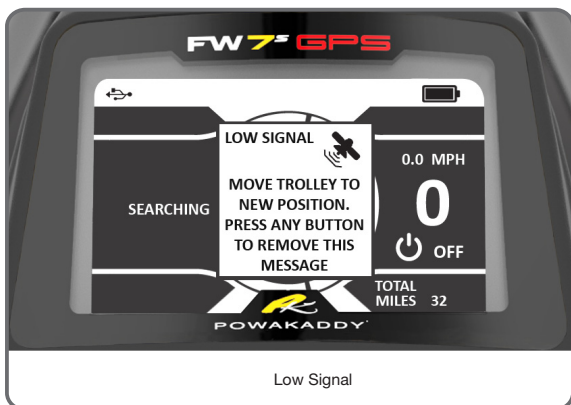
For use in competitions where distance features are not permitted. All distance measuring features will be disabled.

- 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 atmospheric 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.

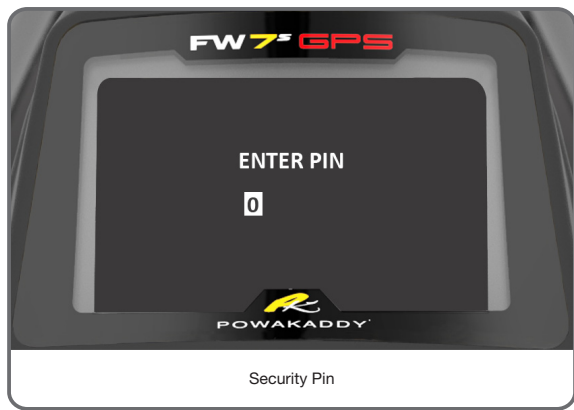


8 Settings Options

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.



Options:

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.

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.

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

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.

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

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

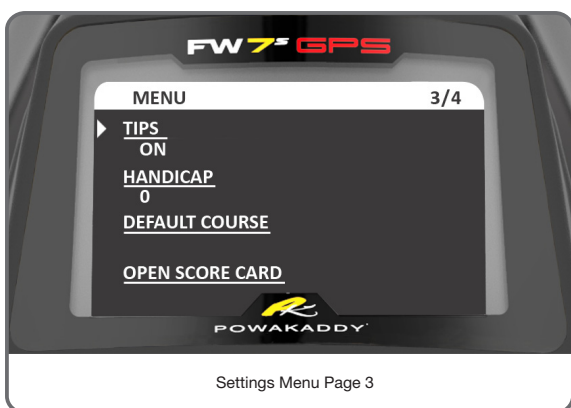
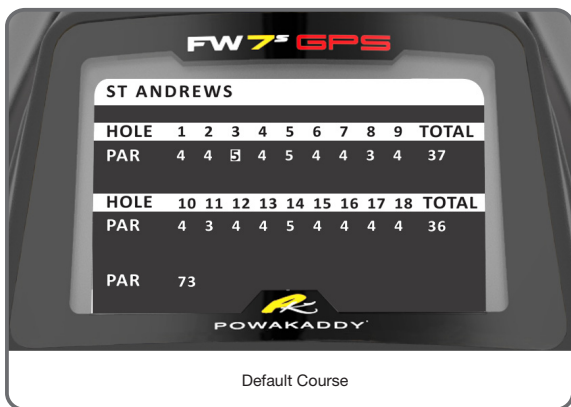
Tips (on/off): This option allows the user to turn off the tips on how to use the trolley during play.

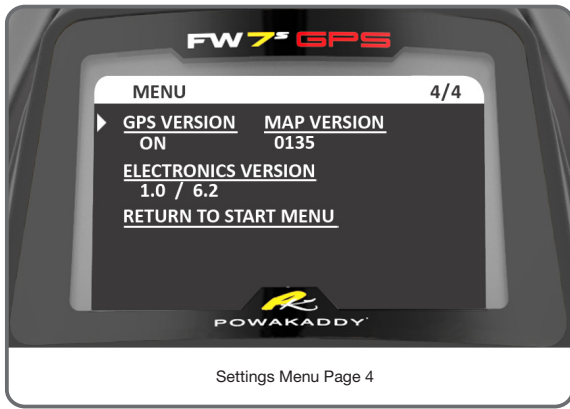
Handicap: To keep your scorecard scoring up to date, you can save your handicap and adjust as your handicap improves!

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.





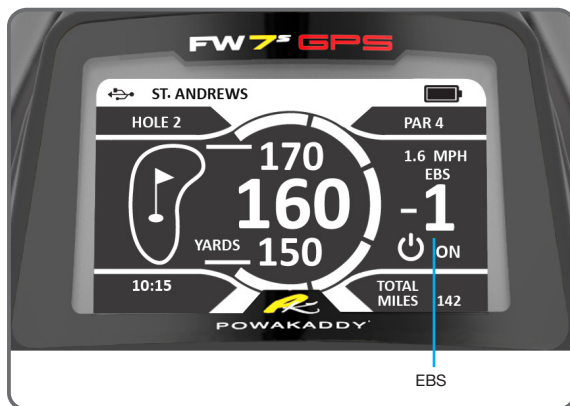
GPS Version: GPS Firmware version installed.

Map Version: Course map data updates will be available periodically from the Powakaddy Website – www.powakaddy.com/gpsupdates

Electronics Version: Software version of the Rental Cart 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.)

9 Electronic Braking System (EBS)



The Electronic Braking System is an optional extra within the Freeway FW7s 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. The EBS logo will appear next to the speed setting to indicate the braking function, which will display between -1, -2 and -3 indicating 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 won't switch on

- Ensure battery is charged and switched to the on position. See section 2 Plug 'n' Play for more details.

My FW7s GPS pulls to one side

- Adjust the front wheel. See section 3.

Battery dying before end of round:

- When charging battery ensure the isolation switch is in the on position.
- Ensure battery is fully charged before the start of the round.
- At the end of the round place battery on charge and leave until next required.

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.

How do I change the distance units?

- Enter the settings menu, press the control dial to select, rotate to display the preferred unit and confirm by pressing the control dial once more.

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 3 of the admin menu and check the GPS VERSION displays 1.08
- If no GPS VERSION is displayed, you will need to update the firmware on your GPS Trolley.
- Visit www.powakaddy.com/gpsupdates for more information.

My FW7s GPS is showing information from a different course

- Re-start the trolley by removing and then replacing the battery in the tray.
- 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

Maintenance

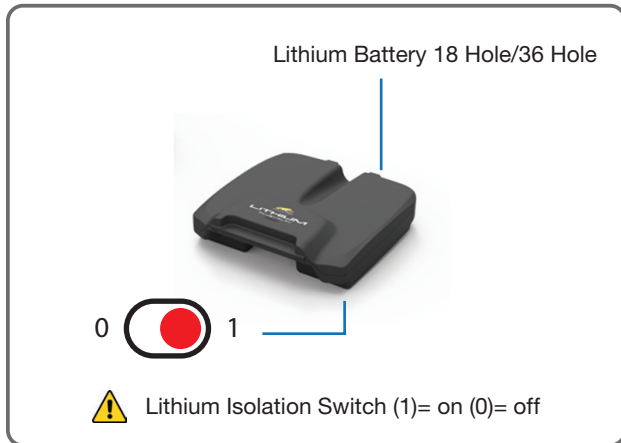
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- Your Powakaddy FW7s GPS is simple to maintain.
- We recommend numbering your charger and battery for easy identification for service purposes.
- **Never jet wash your trolley or immerse into water.** Occasionally remove the wheels and apply grease to the axle and moving parts.
- Your serial number can be found on the underside of the main central tube. Keep a note of the serial number for reference in the box provided above.

Should you experience a problem with your Powakaddy product please go to www.powakaddy.com/support

11 Battery Care

PLUG' N'PLAY™



Your FW 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

- A 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 expose 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 use the charger or battery if the leads, contacts or casings are damaged.
- 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. A mismatch of battery and charger could cause damage.
- 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 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 isolation switch in the ON (1) position.
- The charger has two lights, when connecting a discharged battery the red light will illuminate, the green light will illuminate during the charging cycle, this does not mean the charge has finished, the battery must remain on charge for a minimum of 12 Hours.
- 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. 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.
- Leave the battery on charge even when not in regular use to maintain optimum life and performance. It is perfectly safe to leave the battery plugged in on charge. Once the green light illuminates the charger will use virtually no electricity but guarantee you a fully charged battery for your next round.
- If the battery is to be not used for a period of 3 months or more then it is ok to remove from charge. Always fully recharge the battery (for the recommended 24 hours). Our advice is to store in a cool dry place. Thereafter recharge the battery once a month.
- Ensure your Lithium battery isolation switch is in the OFF (0) position when the battery is connected but not in use. For example 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.



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CUTTING EDGE-DESIRE

More game-changing technology
at powakaddy.com