

**ORIGINAL VERSION**



**M-TECH GPS Electric Trolley  
Instruction Manual**

EN

**REGISTER ONLINE**

[www.motocaddy.com/warranty](http://www.motocaddy.com/warranty)



**IMPORTANT:** Scan the QR code to ensure that your M-TECH software remains up to date and performance is always optimised



Distance Measurement Device (DMD) features are legal to use when local USGA and R&A rule 4.3 is in effect. Always check local and competition rules prior to commencing play



Visit [www.motocaddy.com/instructions](http://www.motocaddy.com/instructions) for other Motocaddy instructions including translations

## SOFTWARE UPDATES / LOCATING YOUR SERIAL NUMBER

### IMPORTANT - Software Updates

The M-TECH GPS has been developed to include WIFI powered, Over the Air (OTA) course and system updates. It is recommended that you always use the latest firmware version to enable you to take advantage of new features and system improvements. You can register your email address to join our dedicated M-TECH GPS mailing list by scanning the QR code or visiting [www.motocaddy.com/support/m-tech](http://www.motocaddy.com/support/m-tech).



### Locating your Serial Number

The serial number is located within the battery tray (fig. 1). This number is required when registering your warranty online and should be kept handy for future use.

The same number should also be on the box received with your trolley. If you need to return your trolley for any reason, please retain the packaging. A proof of purchase must also be kept in case your trolley requires servicing during its warranty period.



Fig 1

**Please keep a record of your trolley serial number here for future reference:**

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## Equipment Overview

1. LCD Touchscreen Display
2. On/Off & Speed Control Button
3. USB Port (on underside of handle)
4. Upper Bag Support
5. Upper Release Latch
6. Pop-up Charging Port
7. CLICK 'N' CONNECT® Battery
8. Battery Tray
9. EASILOCK® Lower Bag Support
10. Front Wheel
11. Front Wheel Alignment Adjusters
12. Rear Wheels
13. Rear Wheel Release Buttons
14. Motor (under Battery Tray)
15. Auto-Open Stand
16. Lower Release Latch
17. Anti-Tip Wheel Housing (under trolley)



# SAFE USE OF YOUR TROLLEY

## Safety cut-out

This Motocaddy trolley is fitted with a timed safety cut-out feature. Once started, the trolley will automatically cut power to the motor after ten minutes to reduce the risk of damage to the trolley. Pressing the 'On/Off' button will restart the trolley.

## Safe use of your Trolley

Motocaddy trolleys are designed for the transportation of golf bags and clubs contained within. Using the trolley for any other purpose may cause damage to the trolley and cause harm to the user.

- Do not attempt to transport any other equipment;
- The trolley is not designed for the transportation of people;
- The maximum rated load suitable for this trolley is 20kg;
- Do not use the trolley to assist you when walking up hills;
- Submerging the trolley in water (e.g. a lake) is likely to cause damage to the trolley;
- Do not operate the trolley whilst under the influence of drugs or alcohol;
- This trolley can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities if they have been given supervision or instruction concerning use of the trolley in a safe way and understand the hazards involved. Children shall not play with the trolley. Cleaning and user maintenance shall not be made by children without supervision;

## Caring for your Trolley

Although your Motocaddy trolley has been weatherproofed, please follow these simple guidelines to help protect your trolley:

- Do not store your trolley outside;
- Try to minimise exposure to rain as much as possible with an umbrella during heavy rainfall;
- Wipe excess water from the trolley prior to storage;
- Never use a pressure washer to clean your trolley. To prevent water damage, wipe down with a damp cloth;
- Avoid using high pressure air hoses near moving components;
- Avoid exposure to items which may scratch, damage or exert excessive force on the LCD display;

This Motocaddy trolley is designed to require very little maintenance. We do however recommend checking your trolley before each use to ensure:

- There is no build up of excess mud and dirt;
- The rear wheels are securely fitted and turn freely;
- The rear wheel axles are greased and well lubricated;
- The front wheel nut is on tightly and quick release lever is clamped down;
- The front wheel is not clogged up and turns freely;

Only original Motocaddy parts should be used when repairing your trolley.

**If you experience an issue with your trolley, please contact our Technical Support team for further assistance.**

## Important Battery Safety & Care Information

- Always recharge as soon as possible after finishing your round, regardless of the number of holes played - ideally within 12 hours. Leaving batteries uncharged for extended periods may reduce capacity and could pose a significant safety risk which could result in fire when the battery is charged. Batteries should always be fully charged prior to storing for long periods;
- Never leave batteries charging for longer than necessary - disconnect once the green LED light indicates the battery is fully charged;
- Ensure that only Motocaddy 28V Lithium batteries are charged with Motocaddy 28V Lithium battery chargers (Model LICH001MS) and the charger is always connected to an earthed socket outlet;
- Batteries must be stored and charged on a dry, non-carpeted surface at a temperature ranging between 10°C and 30°C - charging outside these temperatures may reduce capacity;
- The battery and charger must only be opened and maintained by authorised personnel. Unauthorised opening increases the risk of safety issues and will invalidate your warranty;
- Take care not to drop the battery as this may cause damage to the internal cells which could affect battery performance and safety;
- Regularly check the battery for visible signs of damage. Do not charge or use the battery if any damage is suspected - contact our Technical Support team immediately for advice;
- Use a damp cloth to clean off any dirt, but try to avoid getting the battery too wet (i.e. do not submerge, avoid deep puddles and do not clean your trolley with the battery in the tray);
- **WARNING:** For the purposes of recharging the battery, only use the charger provided with this trolley;

- The battery supplied with this trolley contains battery cells that are non-replaceable;
- Only battery model 28.8V High Power ULTRA 316Wh can be used with this trolley;
- Exhausted batteries are to be removed from the trolley and safely disposed of;
- If the trolley is to be stored unused for a long period, the battery should be removed;
- The battery supply terminals must not be short-circuited;

**IMPORTANT** - As with any electrical device, it is not recommended to leave batteries charging overnight or for prolonged periods without supervision. Motocaddy Lithium batteries can be fully-charged from empty in less than 5 hours, so wait for the charger light to turn green, switch off at the wall and unplug the battery ready for your next round.

**WARNING** - If the charger LED light flashes RED and/or GREEN consecutively when connected to the battery, this indicates there is likely to be a fault with the battery or charger. It is important that you disconnect the charger immediately and contact our support team for further assistance. Do not attempt to use the battery or charger as this could pose a significant safety risk which could result in fire.



We are dedicated to protecting the environment and encourage the recycling of Motocaddy products. Exhausted and damaged batteries should be safely disposed of through a local recycling point (where available). Alternatively, please contact our Customer Support team for further information regarding safe and responsible disposal.

# CHARGING YOUR LITHIUM BATTERY

## Charging your Lithium Battery

The Lithium battery can be left on the trolley or removed for charging. It is possible to charge the battery while the trolley is folded or unfolded. If folded, the charging port will be automatically accessible (fig. 1). If removing the battery for charging, slide the battery release catch to the left (fig. 2) and lift the battery using the grab handles provided (fig. 3). If the charging port is not visible - for example when the trolley is unfolded or battery has been removed - it can be pulled out manually.

1. Plug the Motocaddy 28V Lithium battery charger into an earthed mains power socket
2. The charger light will be GREEN when not attached to a battery to indicate that it is ready to charge
3. Attach the charger cable to the charging port, matching the black and grey connections
4. The charger light will provide an indication of charging phase:

 RED - Battery charging       GREEN - Battery fully charged

5. The charging process will take between 3 to 5 hours depending on the depth of discharge. This may take longer for the first few charges
6. Once charging is complete, disconnect the charger from the mains power supply and battery
7. The charging port will need to be pushed into the battery to switch the power on for next use

**WARNING - If the charger LED light flashes RED and/or GREEN consecutively when connected to the battery, this indicates there is likely to be a fault with the battery or charger. It is important that you disconnect the charger immediately and contact our support team for further assistance. Do not attempt to use the battery or charger as this could pose a significant safety risk which could result in fire.**



Fig 1



Fig 2



Fig 3

## **Recommendations for hibernation of Lithium Batteries during winter months**

If for any reason your Lithium battery is not going to be used for lengthy periods, e.g. 3-months over the winter, the battery should be stored fully charged. Before the battery is used again, recharge it (top it up) prior to use. The battery must not be left for longer than 2-months without charging as this could invalidate your warranty.

We recognise that extended absences are not always planned in advance, however when it is likely that you will not be using your battery for a period of time it is good practice to follow these steps to extend the life of your Lithium battery. Always recharge as soon as possible after finishing your round, regardless of the number of holes played - ideally within 12 hours. Leaving batteries uncharged for extended periods may reduce capacity and could pose a significant safety risk which could result in fire when the battery is charged. Batteries should always be fully charged prior to storing for long periods. Please ensure that the charger is ALWAYS disconnected from the battery after charging.

## **Battery Management System (BMS)**

Motocaddy Lithium batteries are fitted with a comprehensive battery management system (BMS) to protect the battery from excessive abuse, high currents, deep discharge and overcharge. When the battery is delivered there may be no output as the BMS is designed to maximize safety whilst shipping. Please ensure that the battery is fully charged prior to connecting it to your trolley as this will activate the BMS and effectively 'switch-on' the battery. From time to time, at deep discharge or long term storage the BMS may switch-off the battery. A full battery charge will rectify this problem.

Motocaddy golf trolleys are designed to work with the BMS system installed in the Lithium batteries and the battery meter is also synchronised to work in conjunction with the battery. If for any reason the voltage on the battery falls below the low battery warning on the trolley, then the BMS may disable the battery to protect it. Again if this occurs please recharge fully. Please be aware that Lithium batteries tend to 'drop off' quickly at the end of the cycle so it is not advisable to attempt to play excessive holes as the BMS will activate for protection purposes.

# ATTACHING THE WHEELS / INVERTING THE WHEELS

## Attaching the Wheels

This trolley does not have a specific left and right wheel. To attach the rear wheels, follow these simple steps:

1. Push and hold the quick release button in towards the centre of the wheel
2. Slide the wheel onto the trolley axle as far as it will go (onto the inner groove)
3. Once in position, release the button and pull the wheel outwards slightly to lock
4. An audible 'click' will confirm the wheel is in the correct position

**To check you have attached the wheels correctly onto the inner groove, you will find they will not rotate freely in either direction.**

The outer groove can be used as a "free-wheel" option if you run out of battery power. Simply slide the wheel onto the outer groove and pull the wheel outwards slightly to lock. Once connected, the wheel will spin freely without resistance in both directions.

## Inverting the Wheels

The rear wheels can be inverted to reduce the trolley width for transportation and storage.

1. Push and hold the quick release button while sliding the wheel off the axle
2. Flip the wheel over, push and hold the button, then slide onto the axle
3. Release the button and pull the wheel out slightly until it engages with the free wheel groove

**It is important the wheels are not pushed on too far. They should not touch the battery tray.**

## Adjusting the Front Wheel Alignment

If your trolley is not tracking in a straight line, the alignment of the front wheel can be adjusted to rectify. This can be caused by a number of factors including a slightly loose bag support or unevenly packed bag.

1. Lift the quick release lever positioned on the front wheel housing and loosen the wheel nut (fig. 1)
2. There are two small metal dials on either side of the housing that are used to realign the wheel (fig. 2)
3. If your trolley is veering to the right (when walking behind it), turn the left hand dial clockwise and the right hand dial anti-clockwise
4. If your trolley is veering to the left (when walking behind it), turn the right hand dial clockwise and the left hand dial anti-clockwise
5. Tighten the wheel nut and push down the lever to lock the wheel back into place (fig. 3)

This procedure can be carried out until you are happy the trolley is moving in a straight line. You may only need to adjust one dial at a time.

**Instructions based on being in front of the trolley looking at the wheel whilst it is in front of the housing.**

## Attaching the Anti-Tip Wheel (Optional)

The Anti-Tip wheel is designed to prevent the trolley from tipping backwards on steeper inclines and is included with the M-TECH GPS as an optional attachment. It is not a requirement for safe use.

To attach the wheel, simply pull the grey button on the right side of the anti-tip wheel housing (located underneath rear of trolley) out and slide the anti-tip wheel bar into the housing. There will be a 'click' when the wheel is securely fitted. To remove the wheel, pull the grey button out and slide the attachment out of the housing. The wheel can be removed, or pushed underneath the trolley when not in use.



Fig 1



Fig 2



Fig 3

# UNFOLDING YOUR TROLLEY

## Unfolding your Trolley

We recommend unfolding your trolley once the wheels have been un-inverted and re-attached (see page 10).

1. Lift the upper bag support slightly and release the upper latch (fig. 1)
2. Unfold the handle and re-secure the latch (fig. 2)
3. Release the lower latch (fig. 3)
4. Lift the trolley handle up into position (fig. 4). The front wheel will automatically unfold
5. Re-secure the lower latch and ensure the auto-open stand is folded away (fig. 5)
6. Once unfolded, the charging port must be pushed into the battery to switch the power on

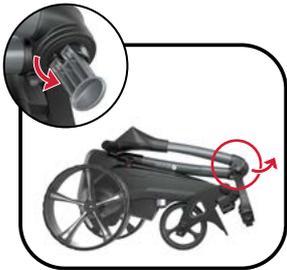


Fig 1



Fig 2



Fig 3



Fig 4



Fig 5

\*Images are for illustration purposes only and may differ from actual product

## Folding your Trolley

1. Release the lower latch (fig. 1). The auto-open stand will also be activated
2. Fold the frame forward until fully extended (fig. 2). The front wheel will automatically fold underneath
3. Release the upper latch and fold the handle back until the trolley is fully folded (fig. 3)
4. Re-secure both latches. If you wish to stand the trolley upright, leave the auto-open stand out. Remember to ensure the auto-open stand is pushed down if not being used (fig. 4)
5. The wheels can be inverted to reduce the trolley width for transportation and storage (fig. 5). See page 10 for details

**Please ensure the auto-open stand is folded away when not in use to prevent damage.**

**When the trolley is folded with the battery installed, the power will automatically disconnect and the charging port will become accessible. This is a safety feature to ensure the trolley cannot be switched on when folded during storage or transportation.**



Fig 1



Fig 2



Fig 3

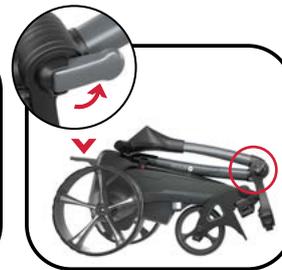


Fig 4



Fig 5

## LOWER BAG SUPPORTS

### Lower Bag Support with EASILOCK® Bag

All Motocaddy trolleys are fitted with the EASILOCK® bag attachment system. This securely attaches the bag, reduces twisting and removes the need to use a lower bag strap.

1. If using an EASILOCK® compatible bag, please ensure that the supplied pins are fitted to the bag base (fig. 1)
2. If attached, remove the two lower bag support elastic straps by pressing and holding the back of the clip before pulling outwards (fig. 2)
3. Align the cut out on the bag base with the lower bag support platform to align the bag pins with the holes on the trolley (fig. 3)
4. Lower the bag until the pins locate with the two holes. You should hear a positive “CLICK” as the bag locks into position

### Lower Bag Support with Non-EASILOCK® Bag

If you are using a non-EASILOCK® golf bag, please do not remove the two lower bag support elastic straps:

1. Position your bag so it is resting on the lower bag support platform and in the cradle of the upper bag support
2. Stretch the lower bag strap around the bag base and loop the rounded bar underneath the bag support hook (fig. 4)

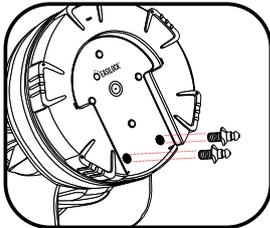


Fig 1

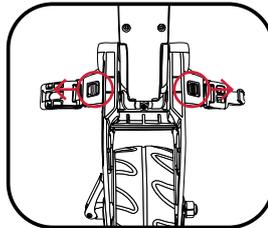


Fig 2

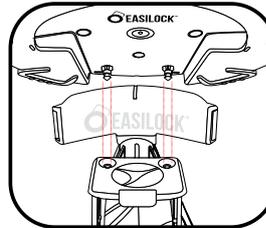


Fig 3

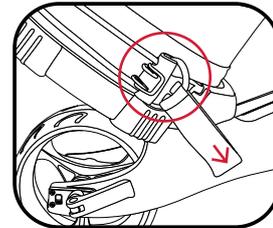


Fig 4

## Upper Bag Supports

The upper bag support straps are secured in the same way as the lower straps using the following steps:

1. Stretch the elasticated strap around the bag & loop the rounded bar underneath the hook (fig. 1)
2. Position the two placement straps centrally on your golf bag (fig. 2)

## Adjusting the Bag Supports

The bag support straps are manufactured from elasticated material to allow your golf bag to be held tightly in position. The strap should be adjusted to be reasonably tight around the golf bag:

1. Unclip the elasticated straps from the housing by pulling outwards in the direction shown (fig. 3)
2. Move the bar as required to tighten or loosen the strap fitting. Pulling the bar downwards will tighten, upwards will loosen (fig. 4)
3. Ensure that the straps are clipped back into the housing before use (fig. 5)

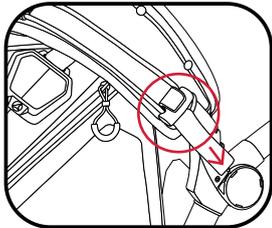


Fig 1

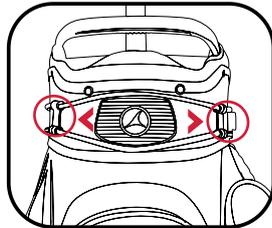


Fig 2

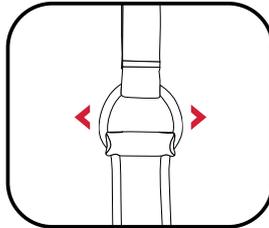


Fig 3

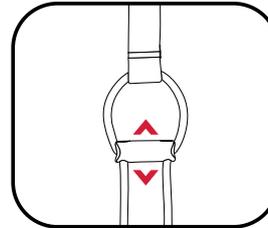


Fig 4

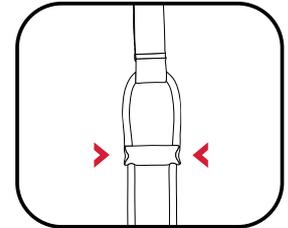


Fig 5

## STARTING, STOPPING & CHANGING SPEED

**When the battery is initially connected, a Motocaddy logo graphic will be displayed, followed by a blank screen for around 20 seconds to allow the processor to boot up. Please do not attempt to restart the trolley during the booting procedure.**

### Starting, Stopping & Changing Speed

The main 'On/Off' button is used to start and stop the trolley, whilst also controlling the speed, which can be adjusted while the trolley is stationary or in motion. The trolley has 9 speed settings (1 to 9) with 1 being the slowest and 9 the fastest.

To increase the speed, rotate the 'On/Off' button clockwise, or anti-clockwise to decrease the speed. The number of green bars surrounding the speed indicator increases and decreases with the number.

To start the trolley, simply select your required speed setting and press the 'On/Off' button. The trolley will smoothly accelerate until it reaches the selected speed and the speed indicator will change from white to green to indicate that the trolley is under power.

To stop the trolley, simply press the 'On/Off' button again - there is no need to reduce the speed setting. The speed indicator will return to white.



## Battery Meter

The M-TECH GPS includes an on-screen battery meter in the top right corner (fig. 1) which provides an indication of remaining battery capacity.

The battery bar is green when fully-charged. The bar will gradually reduce while turning amber and then red as battery capacity decreases.

If battery capacity gets low, a red 'low battery' warning icon will appear in the speed indicator (fig. 2). Press the 'On/Off' button to continue using the trolley. It is recommended to disable Bluetooth, stop USB charging and limit GPS usage until the battery has been charged.

## USB Charging

The trolley features a USB charging port designed to charge USB powered devices during your round.

Simply remove the covering cap and plug a USB cable into the charging port located on the underside of the handle. The device will continue charging while the cable is attached and the battery is connected.

The rate of charge will be slower than a mains AC charger and similar to plugging the device into a PC. The USB charger takes power from the main trolley battery and continuous charging will reduce the battery capacity between charges. The trolley is designed to disable the USB charging port when the trolley battery capacity reaches a preset level.

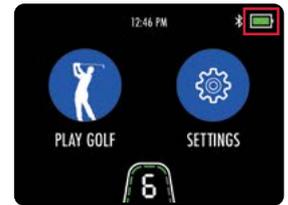


Fig 1 - Battery Meter

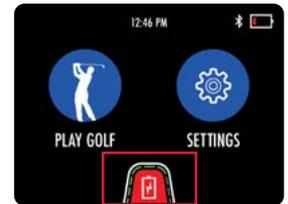


Fig 2 - 'Low Battery' Warning

# ADJUSTABLE DISTANCE CONTROL

## Adjustable Distance Control

The trolley features an easy to use Adjustable Distance Control (ADC) function which will allow you to send your trolley ahead of you from 5 - 60 yards or metres. The speed setting will automatically change to speed 5 during the ADC setting process.

1. While stationary, hold down the 'On/Off' button for 2 seconds (the speed will change to 5)
2. The ADC settings box will appear and indicate '15 YARDS/METRES' (fig. 1 & fig. 2)
3. Rotate the 'On/Off' button clockwise to increase the distance and anti-clockwise to decrease
4. Press the 'On/Off' button to start the trolley moving

Whilst the trolley is running under ADC mode, the Motocaddy symbol will be displayed within the ADC settings box and rotate until the desired distance is reached (fig. 3). The M-TECH's inbuilt DHC functionality will automatically apply the parking brake once the trolley has reached the desired distance and stopped. The trolley can be manually stopped by pressing the 'On/Off' button once.

In the unlikely event that your trolley fails to register distance whilst in ADC mode, the trolley will cut power to the motor to prevent the trolley from travelling too far. The trolley can be reset by pressing the 'On/Off' button once, thereby allowing you to continue to use the trolley with ADC disabled until you are able to contact our Technical Support team.

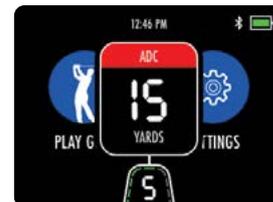


Fig 1 - Home - ADC



Fig 2 - GPS Mode - ADC



Fig 3 - GPS Mode - ADC Moving

## Clock Settings

The M-TECH GPS includes a clock which is visible on the Home (fig. 1) and GPS Mode (fig. 2) screens. The clock will set automatically each time the trolley is turned on and either has a strong enough GPS signal or connects to a WIFI network.

It is possible to change the clock format and time zone settings. Starting on the Home screen, select "Settings" and then "Time" from the settings menu. You will then have the option to change the following options:

- **Format** (12 hour / 24 hour)
- **Time Zone** (GMT +/- 12 hours)
- **Daylight Savings Time** (On / Off)

**Please be aware that the clock will only be displayed when an accurate time signal has been received.**

## Round Timer

The round timer is displayed at the top of the GPS Mode screen next to the clock and will start counting as soon as you enter GPS mode and select a course.

You can view, pause and reset the timer (fig. 3) by selecting it on the display.

If reset, the timer will stop and you will need to select "Start" to begin counting again.

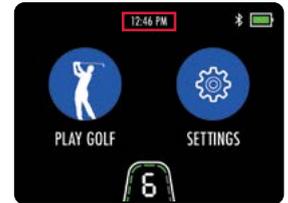


Fig 1 - Home - Clock



Fig 2 - GPS Mode - Clock

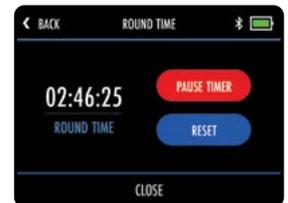


Fig 3 - Round Timer Settings

## GPS MODE OVERVIEW

### GPS Mode Overview

1. Hole Number
2. Par / Stroke Index
3. AED Locator (selected regions)
4. Clock
5. Round Timer
6. Battery Indicator
7. Back Distance
8. Middle Distance / Dynamic Pin Distance
9. Front Distance
10. Previous Hole
11. Green Map with Dynamic Pin
12. Next Hole
13. Settings Menu
14. Hazards Information
15. Speed Indicator
16. Shot Measurement
17. Scorecard



## Introduction to GPS Mode

The M-TECH GPS is pre-loaded with 40,000+ worldwide courses and includes front, middle and back of green distances, along with hole information, hazards, score tracking, shot measurement and round timer.

**IMPORTANT : Distance Measurement Device (DMD) features are legal to use when local USGA and R&A rule 4.3 is in effect. Always check local and competition rules regarding the use of DMD and Push Notifications prior to commencing play.**

## Using GPS Mode

It is really simple to start a round in GPS Mode:

1. From the Home screen select "Play Golf" (fig. 1)
2. The trolley will display "Searching" while it acquires an accurate GPS location (fig. 2)
3. A list of local courses will be displayed, with the nearest at the top (fig. 3)
4. Select the course you wish to start playing

It is also possible to select an alternative course from the GPS Mode settings menu. Please be aware that the Round Timer and Score Tracking will be reset when a course is changed.

The trolley also features a **Demo Mode** to allow feature demonstration when a GPS signal is not available. To enable Demo Mode, navigate to the "Settings" menu from the Home screen and select "Demo Mode". Demo Mode can be toggled "On" and "Off". Once enabled, "Play Golf" will display a list of demo courses.

**It is important to disable Demo Mode before attempting to play a round of golf.**

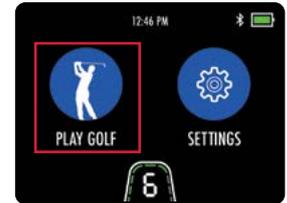


Fig 1 - Home - Play Golf

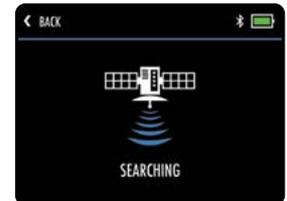


Fig 2 - Course Search

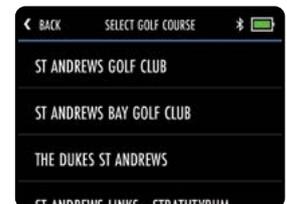


Fig 3 - Course Selection

# DYNAMIC PIN / HOLE ADVANCEMENT / TEE SELECTION

## Dynamic Pin Location

The M-TECH GPS allows you to move the location of the pin to give a more accurate distance measurement. Touch the point on the green that you want to move the pin to and the middle distance will update (fig. 1).

## Hole Advancement

The M-TECH GPS will automatically advance to the next hole when you move towards the next tee.

It is also possible to change the hole manually using one of the following methods:

- Using the left and right arrows (fig. 2a)
- Touching the hole number in the top left corner (fig. 2b) and selecting the required hole
- Selecting "Select Hole" from the GPS Mode menu and tapping the required hole (fig. 3)

**Please be aware that holes will advance sequentially from the 1<sup>st</sup> hole onwards. If you are commencing play at a different location, you will need to manually advance to the required hole.**

## Tee Selection

It is possible to set the default tee type to display correct hole information (Par and Stroke Index).

This can be set within the Home settings or GPS Mode settings menu.



Fig 1 - GPS Mode - Pin Location

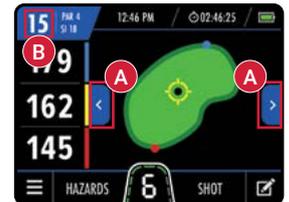


Fig 2 - GPS Mode - Hole Advance



Fig 3 - Select Hole

## Shot Measurement

It is possible to use your trolley to measure the length of a shot taken.

Distances are measured using GPS co-ordinates, which means that you do not need to walk in a straight line between shots to provide an accurate measurement. Shots can be measured in both yards and metres.

To measure shot distance, press "Shot" on the GPS Mode screen (fig. 1) before setting off to find your ball. The "Shot" text will be replaced with a yellow number (fig. 2) and start measuring the distance from the point at which it was started.

To stop measuring, touch the shot measurement distance to close.

## Units of Measure

The trolley can display and measure distances in either Yards or Metres. To select preferred units:

1. From the Home screen select "Settings" and then "Units"
2. Select "Yards" or "Metres" (fig. 3)
3. Select "Close" to exit

This can also be changed from the GPS Mode settings menu.



Fig 1 - GPS Mode



Fig 2 - GPS Mode - Shot Distance

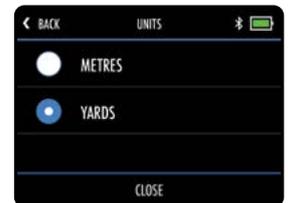


Fig 3 - Units of Measure

# HAZARD INFORMATION

## Hazard Information

The trolley also includes a list of on-course hazards. You can view the hazards for the hole you are currently playing by selecting “Hazards” at the bottom of the GPS Mode screen (fig. 1). Once selected, the screen will provide distances to the closest four hazards (fig. 2). All distances are to the front of the hazard, except carry distances which are to the back. It will only display hazards between you and the green.

You can switch back to the green view by tapping “Green” (fig. 3).

## List of Hazard Abbreviations

<b>LFB</b>	Left Fairway Bunker
<b>MFB</b>	Middle Fairway Bunker
<b>RFB</b>	Right Fairway Bunker

<b>LFW</b>	Left Fairway Water
<b>MFW</b>	Middle Fairway Water
<b>RFW</b>	Right Fairway Water

<b>LGB</b>	Left Green Bunker
<b>RGB</b>	Right Green Bunker
<b>FGB</b>	Front Green Bunker
<b>BGB</b>	Back Green Bunker

<b>LFWC</b>	Left Fairway Water Carry
<b>MFWC</b>	Middle Fairway Water Carry
<b>RFWC</b>	Right Fairway Water Carry

<b>CRK</b>	Creek
<b>CRKC</b>	Creek Carry
<b>EOF</b>	End of Fairway (Doglegs)

<b>LGW</b>	Left Green Water
<b>RGW</b>	Right Green Water
<b>FGW</b>	Front Green Water
<b>BGW</b>	Back Green Water



Fig 1 - GPS Mode



Fig 2 - Hazard Information



Fig 3 - Hazard Information

## Score Tracking

The M-TECH GPS can be used to keep track of your score and access a score summary at any point during the round. To enter a score, select the scorecard logo (fig. 1) at the bottom right corner of GPS Mode.

This will show the current hole information with the option to enter a score (fig. 2). Tap "+" and "-" to change the score and then select "Save" to save the score and return to GPS Mode. You can also select the blue left and right arrows at the top of the screen (fig. 2) to scroll through the different holes and update each score.

When the green check mark is visible next to the "Enter Score" text, the score for this hole has been successfully saved. If the incorrect score has been saved, you can easily override this by updating the score and selecting "Save". Selecting "Clear" on the Score Entry screen will only reset the score on the hole selected.

You can access a score summary at any point during the round by selecting "Score Summary" from the GPS Mode settings menu. The Score Summary will show 'Total Strokes' taken and 'Score' related to Par (fig. 3). To return to GPS Mode, select "Back", to reset your round score select "Clear", or if you have completed your round of golf select "Exit Round".

**Please be aware that scores are not stored or accessible once a round has ended unless you have an active Performance Plan subscription.**



Fig 1 - GPS Mode

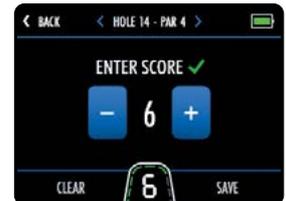


Fig 2 - Score Entry



Fig 3 - Score Summary

## AED Locator & CPR Instructions

The M-TECH GPS can indicate the availability and location of on-course defibrillators and provide golfers with Cardiopulmonary Resuscitation (CPR) instructions. The feature can be enabled by selecting "AED Locator" within the home settings menu and selecting "On" (terms & conditions apply).

If the course you are playing has an on-course defibrillator and has registered details on the Motocaddy AED database, an AED icon will be displayed at the top of the GPS Mode screen (fig. 1).

Tap the AED icon to access information about the location of on-course defibrillators and the contact number to gain access (fig. 2). From this screen, you can also access step-by-step CPR instructions (fig. 3) by selecting "CPR Instructions".

**Please be aware that AED and CPR features are available in selection regions only and usage requires acceptance of the AED & CPR feature 'Terms of Use' available at [www.motocaddy.com/defib-cpr-terms](http://www.motocaddy.com/defib-cpr-terms).**

## Ending your Round

The round can be ended at any point by selecting "End Round" from the GPS Mode settings menu. If you have used score tracking, a score summary will be displayed with an option to "Exit Round". If you have not used score tracking, you will return to the Home screen.



Fig 1 - GPS Mode - AED Icon



Fig 2 - AED Locator



Fig 3 - CPR Instructions

## Introduction to Smartphone Notifications

The M-TECH GPS trolley can be linked to the Motocaddy GPS app via a Bluetooth® connection on any compatible smartphone; allowing the trolley's LCD screen to receive optional push notifications for text messages, email, missed calls and other compatible apps. It is possible to use the trolley with or without push notifications enabled.

## Installing the Motocaddy Smartphone App

It is necessary to install the **Motocaddy app** to utilise smartphone push notification features.

**The Motocaddy GPS app is compatible with devices running iOS 9 or later and Android version 4.4 or later. Please note, not all Bluetooth enabled mobile phone handsets are compatible with the M-TECH GPS Bluetooth connection and pairing for other devices cannot be guaranteed. Please check your device compatibility before attempting to download the app.**

To install the 'Motocaddy GPS' app, search for "Motocaddy" on either the Apple App Store or on Google Play.

Apple Devices



Android Devices



Once installed, select the Motocaddy GPS app and it will load the registration screen. When using the app for the first time, you will be prompted to allow the app to access your location and it is important that this is enabled to use standalone GPS features within the app.

We recommend that you complete the app registration process to allow us to keep you informed about future updates to both the app and push notification functionality. Please note that completing the app registration does not register the trolley.

# ENABLING BLUETOOTH / PAIRING YOUR PHONE

## Enabling Bluetooth

In order to pair your phone to your trolley, you will need to ensure that Bluetooth is enabled on the trolley:

1. From the Home screen select "Settings" and then "Bluetooth" (fig. 1)
2. If Bluetooth is off, select "Yes" to turn it on

**When Bluetooth is enabled you will see the Bluetooth logo on the display next to the battery meter.**

## Pairing your Phone

To pair with a compatible smartphone, ensure Bluetooth is enabled on both devices (see above) and then:

1. Open the Motocaddy app on your phone and select "Pair Device" button (fig. 2)
2. Select the correct trolley model from the list and select "Next"
3. Further instructions will be displayed. When ready, select "Pair Device"
4. Once the trolley and phone have found each other, both devices will display a six digit code (fig. 3). If these codes match, select "Pair" on both devices
5. Both the trolley and phone will confirm that pairing has been successful
6. Select "My Device" on the phone for further settings and "Close" on the trolley screen to continue

The Motocaddy app can be closed once pairing is complete or used as an additional GPS device. Once pairing is complete, it is not necessary to open the Motocaddy app to display notifications on the trolley screen, however the app can be used to control notification settings or unpair your phone.

**During initial startup, the Bluetooth on your trolley will take around 60 seconds to initialise and will automatically reconnect to your phone when in range. Bluetooth can be disabled if required.**

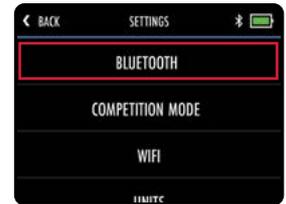


Fig 1 - Home Settings Menu

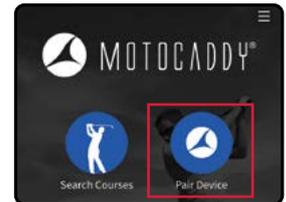


Fig 2 - Motocaddy App

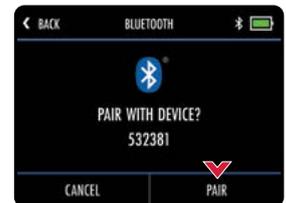


Fig 3 - Trolley Pairing Code

## Notification Settings

It is possible to pre-set which smartphone notification types are displayed on the trolley screen (fig. 1 & fig. 2) using the device 'Settings' menu within the Motocaddy app.

There are also other app specific notification settings within your phone that need to be enabled for the notifications to be displayed on your trolley.

For a full list of compatible apps, plus individual app notification settings (including 'Push Notifications'), please visit [www.motocaddy.com/support/m-tech](http://www.motocaddy.com/support/m-tech).

## Notification Stacking

Notifications will be displayed in chronological order, with the oldest notification displayed at the top.

Once viewed, notifications can be closed by selecting "Close" or tapping "Back" to exit without clearing.

When multiple notifications are available, selecting "Close" will hide the current notification and display the next alert.



Fig 1 - Missed Call

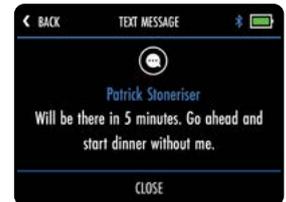


Fig 2 - Text Message

## CONNECTING TO WIFI / FIRMWARE UPDATES

The M-TECH GPS is able to easily update both firmware and courses via WIFI powered Over-the-Air updates.

### Connecting to a WIFI Network

Before attempting an Over-the-Air (OTA) update, the trolley will need to be connected to a WIFI network.

1. From the Home screen select "Settings" and then "WIFI"
2. Select "WIFI Disabled", select "On" and then select "Close"
3. Tap "Select Network" and choose the required network from the list (fig. 1)
4. Enter the WIFI password (tap the eye icon to view password) and select "Enter" (fig. 2)
5. Once connected select "Close" to exit

### Firmware Updates (OTA)

To check current software version and install updates:

1. From the Home screen select "Settings" and then "Check for Updates"
2. You will be asked whether you want to check for updates. Select "Yes"
3. The trolley will search and indicate whether a newer firmware version is available
4. If there is newer firmware, you will see an option to select "Yes" or "Cancel" (fig. 3)
5. Select "Yes" to continue and install the update, or "Cancel" to return to the settings menu
6. During installation, the trolley will restart and show the Home screen when completed

**We strongly recommend checking for firmware updates before using the trolley for the first time. The OTA process can take up to 5 minutes to complete. During installation, the trolley may automatically reboot multiple times and the screen will go blank. When the Home screen is displayed, the OTA is complete. It may be necessary to unpair your mobile device and re-pair after performing an OTA - see page 28.**

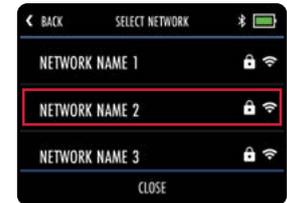


Fig 1 - WIFI Network List



Fig 2 - WIFI Password Entry

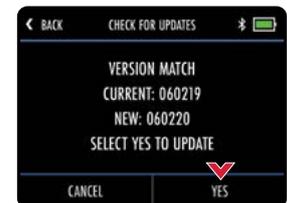


Fig 3 - Check for Updates

## Course Updates (OTA)

The M-TECH GPS is pre-loaded with over 40,000 worldwide courses. To check for an updated course map, the trolley will need to be connected to a WIFI network (or have an active Performance Plan subscription):

1. From the Home screen select "Settings" and then "Update Course"
2. Enter the name of the course (you do not need to enter the full name) and select "Search" (fig. 1)
3. The trolley will then display a list of courses which meet the search criteria (fig. 2)
4. Select the course that you want to update from the search results
5. You will be shown additional course information to help confirm that you have selected the correct course (if required, tap "Back" to select an alternative course)
6. Select "Update" to initiate the update (fig. 3)
7. The course will then be updated and "Updating Course" will be displayed
8. Once complete, the trolley will confirm that the course has been successfully updated
9. Select "Close" to exit

**Please submit requests for mapping updates or new course mapping using the 'Report Mapping Issue' option within the Motocaddy app support menu.**



Fig 1 - Course Search

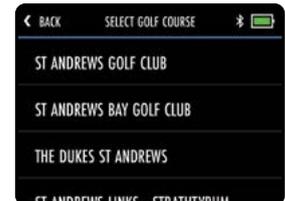


Fig 2 - Course Selection

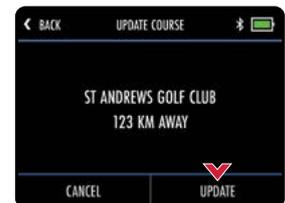


Fig 3 - Update Confirmation

# LANGUAGE SETTINGS / COMPETITION MODE / FACTORY RESET

## Language Settings

The trolley can be used in a number of different languages:

1. From the Home screen select "Settings" and then "Languages"
2. Select preferred language and then "Close" to confirm (fig. 1)

## Competition Mode

It is possible to temporarily disable GPS using the competition mode should competition rules dictate. It is recommended that you always check competition rules before using your trolley with GPS enabled.

To Enable/Disable Competition mode:

1. From the Home screen select "Settings" and then "Competition Mode"
2. Select "On" (to enable) or "Off" (to disable) & select "Close" to exit

When Competition Mode is enabled, the "Play Golf" option will be disabled and the Home screen will display "Competition Mode Enabled" (fig. 2).

## Factory Reset

Should you experience a problem with your M-TECH GPS, it is possible to reset the trolley back to its original factory default settings:

1. From the Home screen select "Settings" and then "Reset all Settings"
2. You will be asked to confirm that you want to go ahead with the reset, select "Yes" (fig. 3)
3. A confirmation screen will be displayed and select "Close" to exit

**Resetting the trolley to factory default will clear any setting preferences.**



Fig 1 - Language Settings



Fig 2 - Competition Mode

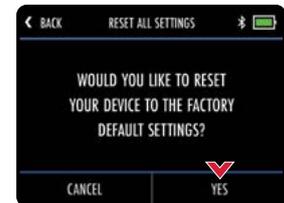


Fig 3 - Factory Reset

## Introduction to DHC

The letters DHC stand for 'Downhill Control' and mean that your trolley will automatically maintain a controlled speed whilst travelling down hills.

Whenever you are looking to move the trolley, even if just to reposition it ready to use, always put it on a low speed setting to make it easier to steer.

## Using the DHC Parking Brake

DHC models are fitted with an Electronic Parking Brake.

To use this feature, the trolley must be in a stationary position. The parking brake is initiated by rotating the speed dial down to 1 and then rotating one click further.

Once activated, the speed indicator will toggle between 'P' (fig. 1 & fig. 2) and number '1'.

The speed setting can be adjusted whilst the parking brake is activated by turning the speed dial. To release the parking brake, press the 'On/Off' button to start the trolley.

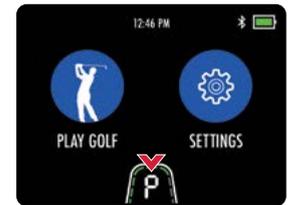


Fig 1 - Home - Brake Initiated



Fig 2 - GPS Mode - Brake Initiated

# IC STATEMENT

## IC Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference
- (2) This device must accept any interference, including interference that may cause undesired operation of the device

l'appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux CNR exempts de licence d'Innovation, Sciences et Développement économique Canada. L'exploitation est soumise aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. The user manual for local area network devices shall contain instructions related to the restrictions mentioned in the above sections, namely that:
  - (i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems
  - (ii) the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and
  - (iii) the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate
- (i) Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux
- (ii) le gain d'antenne maximal autorisé pour les appareils dans les bandes 5250-5350 MHz et 5470-5725 MHz doivent respecter le pire limiter; et
- (iii) le gain d'antenne maximal autorisé pour les appareils dans la bande 5725-5825 MHz doivent respecter le pire limites spécifiées pour le point-à-point et l'exploitation non point à point, le cas échéant.

Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

## IC Radiation Exposure Statement:

Cet équipement a été mis à l'essai et respecte les limites applicables pour l'exposition aux radiofréquences (RF). La limite d'IC SAR pour le SAR des extrémités est de 4,0 W/kg (10 g) et le SAR corporel est de 1,6 W/kg (1 g). La valeur SAR la plus élevée déclarée en vertu de cette norme lors de la certification du produit lorsqu'il est correctement porté par un membre (0 mm) à l'extrémité SAR est de 0.98W / kg, et près du corps (0 mm) SAR est de 1.30W / kg.

**FCC Statement**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

**FCC Radiation Exposure Statement:**

This equipment has been tested and meets applicable limits for radio frequency (RF) exposure. The FCC SAR limit for extremity SAR is 4.0W/kg (10g) and Body SAR is 1.6W/kg (1g). The highest SAR value reported under this standard during product certification when properly Limb worn (0mm) on the extremity SAR is 0.90 W/kg, and close to body(0mm) SAR is 1.10W/kg.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without RF striction. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital, pursuant to Part 15 or the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- (1) Reorient or relocate the receiving antenna
- (2) Increase the separation between the equipment and receiver
- (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- (4) Consult the dealer or an experienced radio/TV technician for help





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Auto-Disconnect Patent (GB) - GB2604429 | Auto-Disconnect Patent (GB) - GB2606985 | EASILOCK® Patent (GB) - GB2519073 | USB Charging Port Patent (GB) - GB2473845 |  
USB Charging Port Patent (AUSTRALIA) - 2010224448

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