

aidacare™
HEALTHCARE EQUIPMENT

POWERED DRIVE WHEEL

USER MANUAL



Thank you for choosing this Aidacare
Powered Drive Wheel.

**It is important that you read this user manual carefully
before using your Powered Drive Wheel.**

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Due care has been taken to ensure all the information contained in this user manual is correct at the time of printing. All measurements, pictures, colours, and weight capacities are to be used as a guide only. We reserve the right to modify the design or appearance of any product displayed in this user manual without prior notice.

TABLE OF CONTENTS

1. Symbols Used in this User Manual	4
2. Overview	5
3. Part Glossary	6
4. Assembly	8
5. Preliminary Checks	14
6. User Interface / Operation	15
7. Safety Precautions	16
8. Maintenance	18
9. Specifications	20
10. Warranty & Service	21
11. Manufacturer	22

1. SYMBOLS USED IN THIS USER MANUAL

The symbols below are used throughout this user manual and on the product to identify warnings and important information. It is very important for you to read them and understand them completely.



WARNING! Indicates a potentially hazardous condition/situation. Failure to follow designated procedures can cause either personal injury, component damage or malfunction. On the product, this icon is represented as a black symbol on a white triangle with a black border.



ALWAYS! These actions should be performed as specified. Failure to perform mandatory actions can cause personal injury and/or equipment damage. On the product, this icon is represented as a white infinity symbol on a black dot with a white border.



DO NOT! These actions are prohibited. These actions should not be performed at any time or in any circumstances. Performing a prohibited action can cause personal injury and/or equipment damage. On the product, this icon is represented as a white symbol with a black circle and black slash.

2. OVERVIEW

INTENDED USE

The Aidacare Powered Drive Wheel (WAT909700) is intended to provide motorised drive assistance to Aspire Medication Carts, for use by trained healthcare staff in clinical environments to reduce the manual effort required when transporting medication carts.

INTRODUCTION

- The Aidacare Powered Drive Wheel WAT909700 has been designed to provide ergonomic motorised drive assistance.
 - Drive assistance significantly reduces manual pushing effort, lowering the risk of musculoskeletal injury.
 - The retractable powered drive wheel deploys and retracts on demand, allowing the cart to be used manually when preferred or in confined spaces.
- Hot-swappable battery design minimises downtime - no tools required.
- Included spare battery ensures minimal downtime.
- Built-in electronic brake and emergency stop switch provide immediate stopping capability for confident, safe operation.
- Designed to retrofit onto existing Aspire medication carts.



ALWAYS ensure that users have read the Instructions for Use before operating this Powered Drive Wheel system.



WARNING

WARNING! Only staff trained that are sufficiently familiar with the operation of the Powered Drive Wheel may be permitted to operate it.

3. PARTS GLOSSARY

The Aidacare Medication Cart Powered Drive Wheel comes with the following:

ITEM	DESCRIPTION	QTY
	Drive System Tiller	1
	Drive Wheel Chassis	1
	M8 x 16 Bolt	8
	M8 Washers	8
	Chassis Mounting Plates: (2) x Rearward plate (2) x Central plate (2) x Forward plate	6

ITEM	DESCRIPTION	QTY
	Tiller head mounting screws (M6 x 16 bolt)	2
	Cable management zip ties	2
	Cable tie mounting screw	2
	Ground wire mount screw (M4 x 10 bolt)	1
	Li-ion battery (24 V, 12 Ah)	2
	Li-ion battery charger, including mains cable	1
	Instruction manual	1

4. ASSEMBLY

Tools and Components Required:

- (1) x PH2 Screwdriver
- (1) x 4 mm Hex Key
- (1) x 5 mm Hex Bit

Important: **DO NOT** use any powered tools at any point of the installation unless specified

ASSEMBLY STEPS

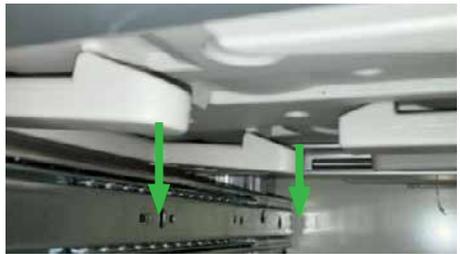
Prepare Cart for Powered Drive Wheel Installation



Remove first and last drawers using the black release tabs on both sides of each drawer (located on rails).

1. Remove Plastic Plug

From the inside of the cart, release the plastic plug by pulling down on the two clips



The plastic dummy plug may be discarded



2. Install Tiller Head

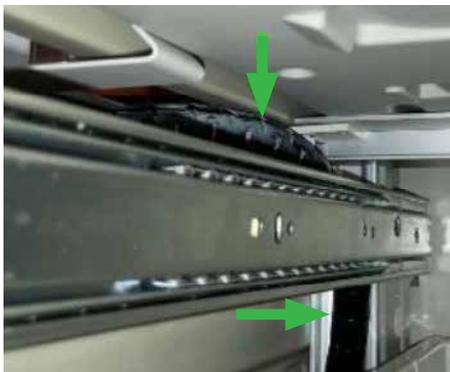
Insert and Run Main Cable



Feed the main cable through on the left side where the plug was



Ensure the cable goes **BEHIND** all telescoping drawer mounts

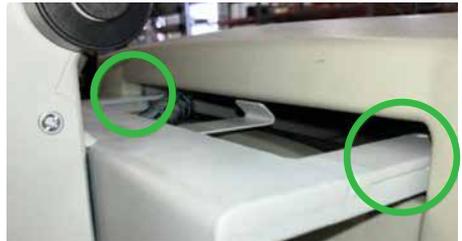


Fix Tiller Head into Place

Remove the two screws on the tiller head and set aside



This is required so that the tiller head can fit into the frame channels



Insert the tiller arms into the channels, ensuring the tubes line up exactly with the channels



Ensure the hook on the tiller head clips securely to the notch

Ensure the tiller head sits as deeply into the cart as possible

Then, re-install the two screws, tightening to provide a secure grip for the tiller assembly

Do not overtighten the screws



3. Install Drive Wheel Chassis

Insert Chassis and Connect Main Cable

Place chassis into cart frame as shown

Ensure plastic battery cage is on tiller side

Connect the two cables together as shown



Secure Cable

For best securement of cable, apply the provided zip ties at the locations indicated on the inside wall of the cart (one above and one below connection point). Do not use power tools and only fasten by hand. Remove excess cable tie to avoid interference with drawers.

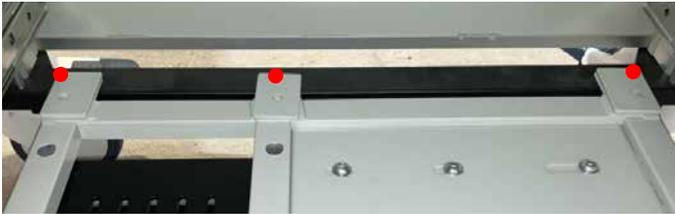


Connect Ground Wire

Using the provided bolt, secure the grounding wire in place using one of the existing holes. Test drawer movement to ensure no interference with drawer movement.



Install Mounting Plates



1. Take the M8 bolts (with washers), match the plate markings/position on the chassis with each plate and lightly install bolts by hand
2. Using a ratchet with a 5mm bit, tighten each bolt on the far corners first, alternating between opposite corners
3. The plates will automatically align to centre on the chassis via the black tubing
4. Then, completely tighten each bolt
5. Do not overtighten the bolts – this may damage the tubing
6. The drawers can then be re-installed into the cart
7. The plates should clamp onto the black tubing from above and below as shown

Apply Labels

Apply battery location label in location shown



5. PRELIMINARY CHECKS

After installing the Powered Drive Wheel system onto a cart, these checks should be completed prior to initial use:

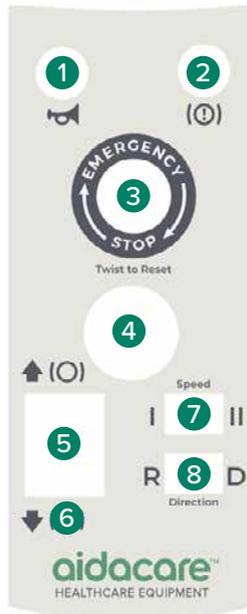
Confirm Tiller Mount is Secure

- Confirm the tiller is completely secure by pushing on the far left, then far right of the handlebars
- There should be no movement of the tiller head independent to the cart

Initial Test Drive

- Insert the battery into the system
- Disengage the red emergency stop button (3)
- Raise, then completely lower the drive wheel (5)
- Using the throttle, drive at maximum speed in forward and reverse (8)
- If functioning is not as expected (unexpected jolts, no power etc.), consult the troubleshooting guide in this user manual.
- If issues persist, contact Aidacare Service

6. USER INTERFACE / OPERATION



ITEM	DESCRIPTION	FUNCTION
1	Buzzer	Activates audible buzzer/horn for as long as button is pressed
2	Electronic Brake	Activates electronic braking to slow down and stop system in motion
3	Emergency Stop	Physical emergency switch that disconnects power completely to system. Twist to reset
4	Battery Indicator	Indicates current capacity of battery
5	Wheel Deploy/Retract	Manual switch for deploy/retract of powered drive wheel
6	Wheel Fully Deployed Indicator Light	Lights on once when is sufficiently deployed and has good traction with ground
7	Drive Speed Select	Selects either slow (I) or fast (II) drive speed
8	Drive Direction Select	Selects forward (D) or reverse (R) direction to drive in. Moves at selected speed in selected direction when throttle is pushed forward

INSTRUCTIONS FOR USE

1. Check that the emergency stop button **3** is released.
2. Confirm intended direction of motion is selected on switch **8**.
3. If the wheel deploy light **6** is off, hold the deploy switch **5** down until the deploy light turns on.
4. Use the throttle to drive forwards/backwards.
5. If deceleration or stopping is required, hold the red electronic brake switch **2** until the cart comes to a stop.
 - a. Avoid pulling/pushing on the cart manually.
6. If required, retract the wheel by holding up on the wheel deploy/retract switch **5**.

7. SAFETY PRECAUTIONS

IMPORTANT CONSIDERATIONS



ALWAYS ensure clear line of sight of the intended direction of motion to avoid collisions.



ALWAYS activate the emergency stop switch immediately if there may be imminent loss of control over motion.



DO NOT use any other battery charger, cable or plug other than those provided with the Powered Drive Wheel system.



DO NOT hang any objects from the tiller handle bars.



ALWAYS slow down when approaching corners. It is recommended to use the buzzer (1) to warn others who may not be aware or see that you are approaching.



ALWAYS activate the emergency switch when the cart is not in use to save battery power.

TROUBLESHOOTING

PROBLEM	CHECK AREA	ACTION
No power or motion	Emergency Switch	Confirm emergency switch is deactivated.
	Battery	Confirm the battery has been inserted completely by removing and re-inserting it.
		Check battery prongs/latch for debris/deformation. Do not use if prongs are no straight.
		Check battery level on tiller indicator. Swap/charge battery if required.
Drive wheel not deploying / retracting	Deploy switch	Hold switch continuously until light activates.
	Battery	Check battery level on tiller indicator. Swap/charge battery if required.
Unexpected jolting / unstable drive motion	Battery	Check battery prongs/latch for debris/deformation. Do not use if prongs are not straight.
	Main cable connection	Do not use battery if prongs are not straight.

8. MAINTENANCE

BATTERY REPLACEMENT

1. When required, press down on the red latch and pull, pull the battery out of the housing and replace the battery.
2. Ensure the battery is properly secured in the housing. A 'click' indicates a secure connection.



DO NOT use any other battery that was not supplied with the product.



DO NOT crush or drop the battery.



DO NOT wet or immerse the batteries under any circumstance.



DO NOT connect the batteries to anything other than the Powered Drive Wheel system or the provided charger.



DO NOT connect the provided charger to anything other than the provided batteries.

Important:



ALWAYS turn the system off first (using the emergency stop switch) before replacing the battery.



DO NOT disconnect the battery while the system is in motion.



After disconnecting a battery, **ALWAYS** wait at least five (5) seconds before connecting a new battery.

SPARE PARTS

WAT909710 - Battery - 24 V 12 Ah
Powered Drive Wheel - Aidacare Medication Carts

CLEANING

As needed, wipe any part of the tiller gently using mild soap or a mild disinfectant and/or disposable wipes.

The below warnings apply to all parts of the system:



DO NOT immerse/submerge in any liquid.



DO NOT use any form of spray and/or aerosol on any part of the system.



DO NOT wash under water pressure or steam clean.



DO NOT use solvents, abrasive cleaners and/or scouring pads to clean any part of the Powered Drive Wheel system.

9. SPECIFICATIONS

Model Number	WAT909700
Power Source	(1) x Lithium-Ion Battery (24 V, 12 Ah)
Temperature	Operating: 5°C ~ 40°C
	Storage: 0°C ~ 50°C
Dimensions (W x H x D)	630 x 515 x 270mm (Packaged)
Product Weight	19.5kg

10. WARRANTY & SERVICE

Aidacare warrants its products to be free from defects in materials and workmanship under normal use and service and will within the period stated below, from the date of purchase, repair or replace without cost to the original customer, any part assembly or portion thereof which shall be returned to Aidacare and from our inspection shows to be defective.

2 YEAR WARRANTY
Tiller & Drive Chassis

6 MONTH WARRANTY
Battery

WARRANTY IS CONTINGENT UPON ANNUAL SERVICING BEING COMPLETED FOR THE LENGTH OF THE WARRANTY PERIOD.

Aidacare cannot be held responsible for any personal injury, damage to the Powered Drive Wheel system or damage to property as a result of the improper or unsafe use of the product.

No warranty claim shall apply where the product or any part thereof has been modified, varied, altered, or damaged either accidentally or through improper or negligent use.

No warranty claim shall apply where the Powered Drive Wheel system is repaired or serviced by parties other than those accredited and or approved by Aidacare.

Warranty does not extend to items or components which may require replacement due to normal wear and tear (e.g. battery) for which Aidacare nor its distributors can be held responsible.

11. MANUFACTURER

If you have any questions, you can contact:



Manufacturer:

Aidacare Pty Ltd

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