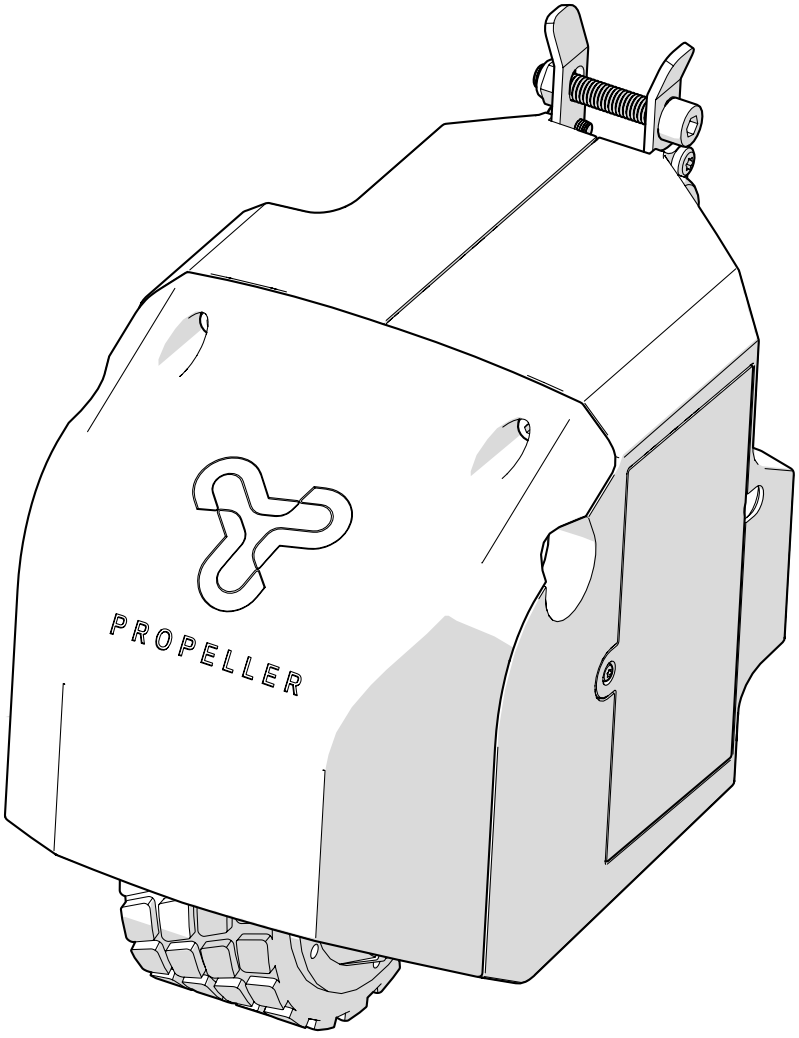
# INSTRUCTIONS FOR USE

## for the medical device Propeller

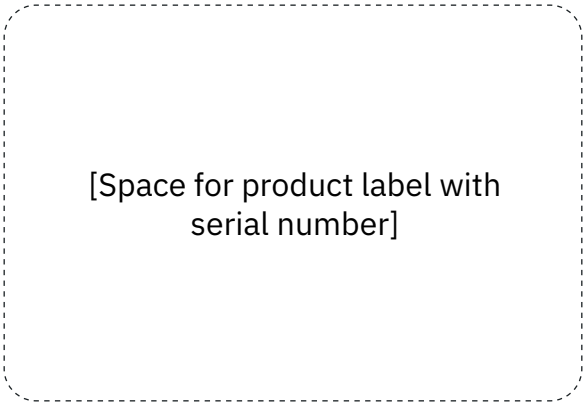
UK

Instructions for use and care




PROPELLER

Translation of Instructions for use
Item number: 23-11231-UK
Revision: 00
Valid from: 2023-05-12
Amended: -


[Space for product label with
serial number]

# Table of Content

## User information

1. Introduction ..... 4
1.1. Contact details ..... 5
1.2. Warranty ..... 5
2. Getting started ..... 6
2.1. Before use ..... 6
2.2. Charging ..... 8
2.3. Movement ..... 8
3. Caring for the device ..... 9
3.1. Propeller ..... 9
3.2. Transport and storage ..... 9

## Device information

4. Intended use ..... 10
4.1. Operating environment ..... 10
5. Configurations and settings ..... 11
5.1. Required level of competence for setting and adjusting ..... 11
5.2. Basic model ..... 11
5.3. Electrical functions ..... 12
6. Important safety information ..... 13
6.1. Standards met and classification ..... 13
6.2. Warnings ..... 14
6.3. Expected service life ..... 15
6.4. Reporting of adverse events and incidents ..... 16

## Service manual

7. Technical information ..... 17
7.1. Symbols ..... 18
8. Servicing and reconditioning ..... 20
8.1. Troubleshooting guide ..... 21
8.2. Battery replacement ..... 21
8.3. Reconditioning and periodic maintenance ..... 22
9. Disposal instructions ..... 26
9.1. Recycling ..... 26

# 1. Introduction

Thank you for choosing Mercado Medic as the supplier of this device. By choosing our product, you get to learn about our 50-year history of developing medical devices with high functionality, safety, quality and flexibility. We manufacture all our different medical chairs under our own management in Sweden.

Mercado Medic is certified to ISO 13485, ISO 9001 and ISO 14001, and complies with applicable labour and environmental legislation.

We reserve the right to make changes to this manual and its contents.

Sufficient competence in the safe use of this device is achieved by carefully reading through these instructions for use before using the device for the first time.

**PDF versions of our instructions for use with zoom options are always available in their most current version on our website www.mercado.se.**

## 1.1. Contact details

**Manufacturer**
Street address: Mercado Medic AB,
Tryffelslingan 14, SE-181 57 Lidingö, Sweden

Postal address: Mercado Medic AB,
Box 1074, SE-181 22 Lidingö, Sweden
Telephone: +46 (0)8 555 143 00
Email: info@mercado.se
Website: www.mercado.se

**Servicing and technical support**
Telephone: +46 (0)8 555 143 08
Email: service@mercado.se

To report warranty claims, adverse events and incidents or other feedback please use the form at www.mercado.se/en/support/.

**Distributor**
Responsible person: Henrik Sellberg

Mercado UK Ltd
Repton House, Bretby Business Park, Ashby Road
DE15 0YZ Burton on Trent
United kingdom

+44 (0)3330 033666
info@mercado-medic.co.uk
www.mercado-medic.co.uk

Space for additional distributor contact details:

---

---

---

---

## 1.2. Warranty

All components of Mercado Medic's devices are covered by warranty, under the time periods and general terms and conditions set out below, unless other specific periods and conditions are agreed in writing between Mercado Medic and the procuring customer in connection with major procurements.

As a user, you must contact your prescriber, authorised service centre or distributor if you experience problems with the device. Distributors in turn should contact Mercado Medic using the contact details available under Section 1.1. Contact details.

**Warranty periods**
- Metal structures: 3 years.
- Actuator (electric): 2 years.
- Other components (e.g. drive motor, batteries): 1 year.

**General terms and conditions**
The warranty does not cover:

- Damage or condition considered to be normal wear and tear.
- Damage caused by negligence or misuse.
- Spare parts, components or accessories not sold by Mercado Medic.
- Customisation of the device by unauthorised service technicians.

# 2. Getting started

This section is primarily aimed at you as a user of the device. It describes how to prepare the device for use. For further details on how to start using your REAL 9000 PLUS, please refer to its user manual. It will have been included in the delivery of your activity chair. Otherwise, it is available digitally at www.mercado.se. For maintenance instructions, see 3. Caring for the device.

## 2.1. Before use

The Propeller must always be delivered mounted on the medical activity chair REAL 9000 PLUS with a 48 x 53 cm base.

**Battery**
The battery must be charged before using it for the first time. This is done by connecting the battery charger to the device's charging outlet (B) and then to a wall outlet (see Figure 2.1). The charging socket is located on the Propeller's control box, which is mounted under the right or left armrest cushion.

Wait until the battery is fully charged before using the device. This normally takes 2 to 5 hours. When the battery is fully charged, the LED on the charger lights up green. For other charging instructions, see 2.2. Charging.

**Consider the following before and during use of the device.**

- The activity chair's brake must always be applied when sitting down and getting up. See Figure 2.1, brake lever (A).
- The brake performance of the activity chair may be impaired on steeply sloping floors.
- The brake performance of the activity chair may be impaired on uneven floors.
- The device must be operated with care. Always be aware of your surroundings before moving. Pets or children on the floor could be easily hit.
- Do not use the device while it is being charged.
- Do not use the device when the activity chair is in a raised position; when your feet lose contact with the floor.
- Emergency stop for control buttons: If, for whatever reason, the system does not interrupt a movement after the corresponding control button has been released, the movement can be interrupted by pressing the button to stop movement in the opposite direction.



Warning! The Propeller is not a brake, use the brake lever.



Warning! As a user, you must contact your prescriber, authorised service centre or distributor if the device shows reduced or altered performance. A device showing reduced or altered performance must immediately be removed from use to prevent incidents and accidents. The device must not be used again until an authorised technician has examined the device.



Warning! To maintain safety, the device should only be used by the person and for the purpose for which it is intended.

Warning! You are not permitted to modify the device yourself. If you would like individual customisation, contact your prescriber or distributor. If the device is modified, the CE marking no longer applies and Mercado Medic may no longer have full device liability. Modifications may affect the safety of the device and lead to accidents.

Warning! The device is equipped with a long cable that mustn't be fixated in order for the device to function properly. Cables can pose a strangulation risk to small children, for example. Do not leave the device unattended with small children nearby.

Warning! The device is equipped with small parts such as screws that can come loose. Small parts that have come loose can pose choking hazards for children and pets.

Warning! Metal surfaces may become very hot if they are exposed to direct sunlight. Skin contact with hot surfaces can lead to burns. Avoid exposing metal surfaces to direct sunlight.

Warning! Always ensure that the device's brake is applied when sitting down and getting up. If the device is not braked, it risks rolling away when you get up or sit down, which can lead to fall injuries.

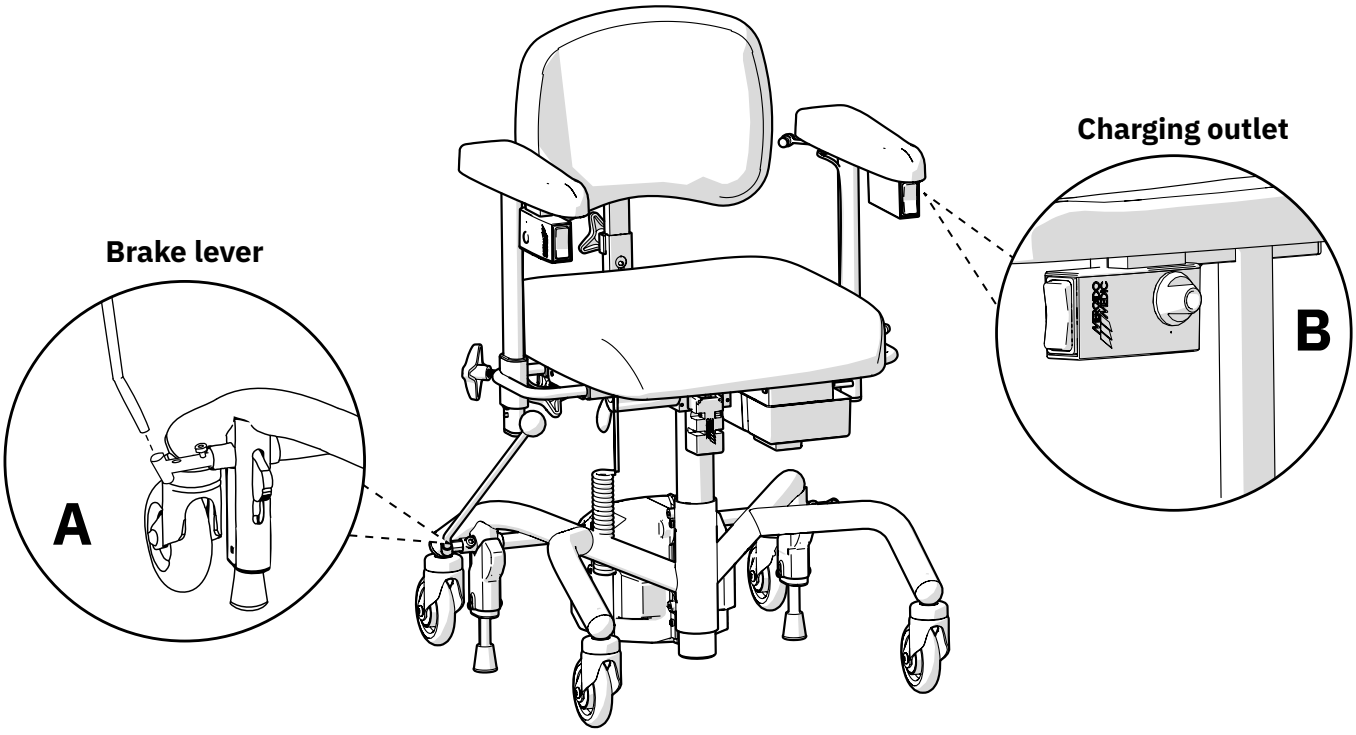



Figure 2.1. Activity chair equipped with the Propeller.

## 2.2. Charging

The battery should be charged once every 24 hours. Fully charging the battery on a daily basis will take 2 to 5 hours. The device must be charged in a safe manner. Do not use the device while it is being charged. For this reason, choose an easily accessible wall socket to plug the charger into. The charger cable for the wall socket is 1.7 metres long and must not be extended. In case of emergency, disconnect the device from the mains by unplugging the charger from the wall socket.

### How to charge the device

1. Make sure that the plug is not plugged into the wall socket. **PLEASE NOTE!**
2. First, insert the plug into the charging outlet (see Figure 2.2). The charging outlet is located on the Propeller control box under the armrest cushion.
3. Then plug the mains plug into the wall socket. The LED on the charger will indicate that charging is underway.

   **PLEASE NOTE!** It is important that the mains plug is disconnected between charges.
4. The battery is fully charged when the LED on the charger changes colour from red to green.

If the device does not work, try charging the battery. If the device still does not work, contact your prescriber or distributor (see 1.1 for contact details).

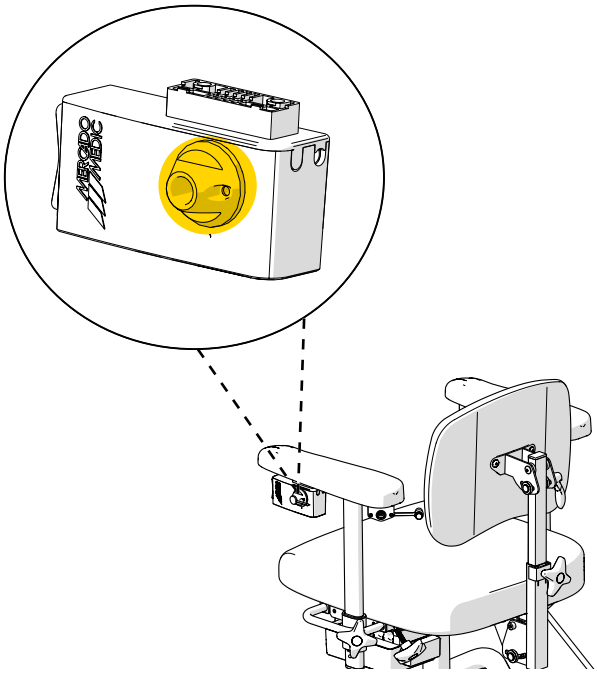
Warning! Always ensure that the activity chair's brake is applied when sitting down and getting up. If the activity chair is not braked, it risks rolling away when you get up or sit down, which can lead to fall injuries.

## 2.3. Movement

When moving around while sitting in the activity chair, it is important to make good contact with the floor. For example, rubber-soled indoor shoes can provide better grip and thus facilitate movement. If the activity chair is equipped with seat tilt, and if you have the physical balance to adjust the seat tilt forward slightly, then this can also provide better grip on the floor. A slightly forward-leaning sitting posture also gives more power in the movement. Loose rugs can render movement difficult. Therefore it is advisable to remove rugs or carpets if you want to move while seated.

Warning! The product must be handled with care to prevent feet from coming into contact with the front wheels.

Warning! The product must be handled with care to prevent hands from getting caught.



2.2 Connecting the plug to the charging outlet under the armrest.

# 3. Caring for the device

Clean the device in accordance with the instructions in this section in order to maintain functions and service life. If you still have issues that cannot be resolved using available home resources, please contact your prescriber or distributor for reconditioning.

**PLEASE NOTE!** Do not wash the device with water, other liquids or chemicals.

## 3.1. Propeller

Do not clean the propeller actuator (see Figure 3.1). This is because there is a risk that the grease required for this mechanism to function as intended might be removed during cleaning.

Clean the propeller's non-electronic parts once a week or when necessary. Use a clean, damp cloth with mild detergent (pH 7-12), surface disinfectant or use a steam cleaner (max. 8 bar).

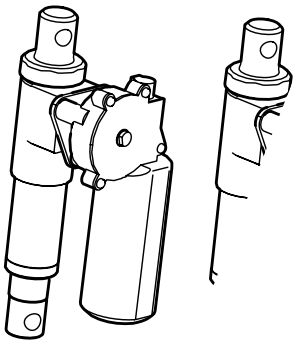
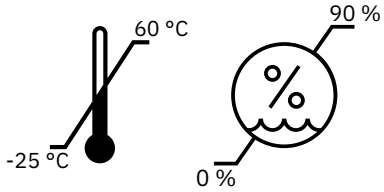


Figure 3.1. The propeller's actuator.

## 3.2. Transport and storage

During transport and storage, keep the following in mind:

- The activity chair moves by rolling on a flat surface.
- The device should be lifted by two people. Suitable grip points are at the front, rear, right and left sides of the seat.
- The device is intended to be transported and stored at between -25°C to +60°C and up to 90% non-condensing relative humidity.




- Transport the device in the intended cardboard box on a pallet. If the activity chair is transported by vehicle, it must be strapped in place using straps over both the base and the seat, and it should be set to the lowest possible seat height.
- The activity chair must not be used as a seat when being transported in a vehicle or aircraft, for example.
- In the case of air transport, the device must be stored in the hold. Original Mercado Medic batteries are approved for air transport. For information on battery type, see 7. Technical information. To remove the battery, see 8.2. Battery replacement.

# 4. Intended use

The Propeller medical device is intended for use by people in need of electric mobility assistance indoors.

For the intended use of the REAL 9000 PLUS product range, see the digital manual on www.mercado.se

The Propeller is designed to facilitate horizontal movement. The propeller is intended to maintain the user's physical ability when the user's own ability to move decreases.

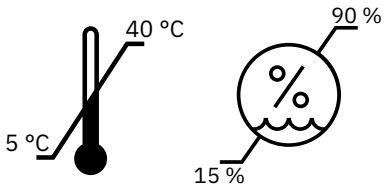
The Propeller is designed and recommended for one or more of the following indications:

- Difficulty or inability to walk.
- Difficulties in achieving adequate movement.
- Pain or exhaustion as a result of everyday tasks at home or at work.
- Where use of a wheelchair is not suitable as a result of activities of daily living.

**Contraindications**
There are no known contraindications for using REAL 9000 PLUS with Propeller. If the device is purchased without prescription from qualified healthcare professionals, the user should consult their doctor whether there are any contraindications.

## 4.1. Operating environment

- The device is intended for indoor use only and must not be used outdoors.
- The device is intended to be used at between -5°C to +40°C and 15-90% non-condensing relative humidity. If the device is stored in an environment outside these limits, the device must be acclimatised for up to 4 hours to achieve an approved temperature before use.




- The device must not be used at altitudes greater than 2000 m above sea level.
- The device must not be exposed to extreme cold or heat, prolonged sunlight or other radiation.
- The device must not be exposed to water, liquids or chemicals to any extent other than that specified in the care information in Section 3. Caring for the device.

# 5. Configurations and settings

This section is primarily aimed at you as a prescriber of the device. Here you will find a description of the device's functions as well as information on how to set and adjust the device's functions. For dimensions and performance, see 7. Technical information.

**PLEASE NOTE!** The Propeller can only be mounted on a PLUS base with dimensions of 48 x 53 cm with 100 mm wheels.

**PLEASE NOTE!** The Propeller cannot be installed if the activity chair is equipped with an electric brake.

The speed of the device cannot be adjusted. The control box can be mounted under the right or left armrest as desired.

## 5.1. Required level of competence for setting and adjusting

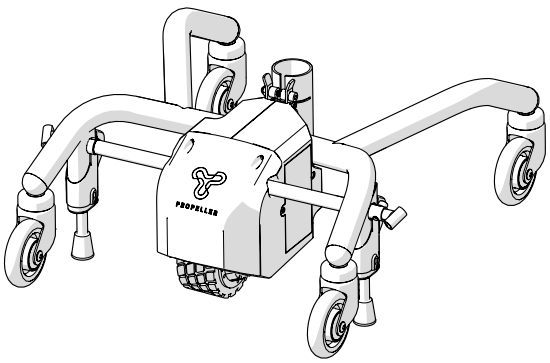
Adjustments must only be made by the prescriber of the device, unless otherwise agreed.

## 5.2. Basic model

The activity chair with Propeller always comes with a seat, back support, armrest, base with four castors (Ø100 mm as standard) and manual brake with brake lever (350 mm as standard). Depending on the model, the device has either electric or manual height adjustment.

**NOTE!** The basic model of the activity chair may vary from one region and procurement department to another.

The Propeller can only be mounted on a PLUS base with dimensions of 48 x 53 cm with 100 mm wheels.



## 5.3. Electrical functions

The Propeller is equipped with two electrical functions: an actuator and a drive motor. The actuator raises and lowers the drive motor between active and passive positions. The drive motor assists with the movement of the activity chair. The Propeller is driven forward by a control button.

**Control button**
The control button is a three-position electric control (off, up and down), which is used to drive the Propeller. Both of the Propeller's electrical functions are controlled by the same control button.

**PLEASE NOTE!** At low battery voltage, the Propeller is deactivated by raising the drive wheel automatically to enable manual movement. The activity chair's other functions are not affected by deactivating the Propeller.

**Actuator**
The actuator's control button is situated under the front edge of the armrest (see Figure 5.1).

Adjustment:

1. Press down to activate the Propeller.
2. Press up to deactivate the Propeller.

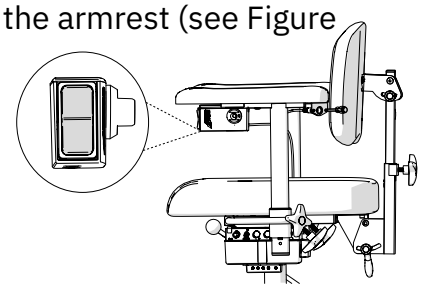


Figure 5.1. Control button for adjusting the Propeller's actuator.

**Driving**
The drive control button is the same as that of the actuator (see Figure 5.2).

Adjustment:

1. Press down for propulsion.

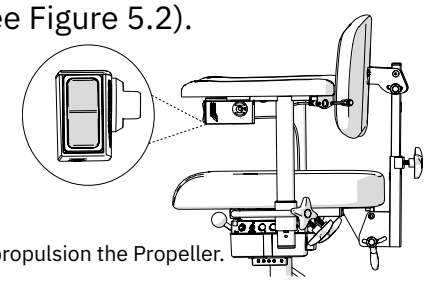


Figure 5.2. Control button for propulsion the Propeller.

**Brake**
The brake control button is located on the outside under the right armrest (A), alternatively with a P-brake button located under the front edge on the control box (B), see Figure 5.3.

Activation and deactivation of brake:

1. A short press activates the brake.
2. A short press on the same button deactivates the brake.

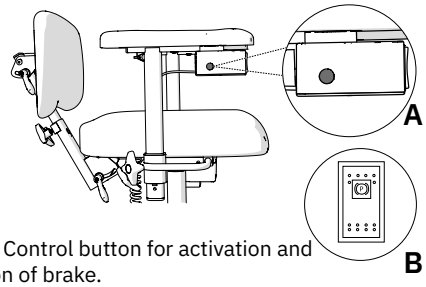



Figure 5.3. Control button for activation and deactivation of brake.

# 6. Important safety information

Our website www.mercado.se has information about any safety notices to the market or recalls of devices and accessories.

## 6.1. Standards met and classification

Mercado Medic's activity chairs are CE marked in accordance with the Regulation on Medical Devices (EU) 2017/745, MDR, and the Swedish Medical Agency's Code of Statutes for Medical Devices LVFS 2003:11. The activity chairs are medical devices as defined in Article 2 of the MDR. The activity chairs are classified as Class 1 non-invasive medical products in accordance with Regulation 1. The active properties of the Propeller are not deemed to affect the classification.

The Propeller has been tested and is approved according to the following standards:

- IEC 60601-1:2005 + A1 + A2
- IEC 60601-1-11:2015 + A1
- EN 1041:2008+A1:2013
- EN 10993-1:2009
- EN ISO 14971:2012
- EN 50581:2012
- EN ISO 15223-1:2016

The following standards have also been used in the development of the devices:

- EN ISO 14971:2020

The Propeller is designed and manufactured to be free of toxic and allergenic substances.

The Propeller is classified according to IEC 60601-1:2005 as a medical device with applied part (Applied Part as defined in standard) of type B associated protection class II with internal power source.

The Propeller complies with protection rating IP22. The first digit (2) means protection against electric shock for fingers, etc., by preventing access to hazardous parts with fingers or similar. The second digit (2) means protected against exposure to vertically or nearly vertically dripping water. This means that the Propeller can handle light sprays of water at a vertical angle from above.

Details of EMC are available on our website at www.mercado.se.

## 6.2. Warnings



Warning! As a user, you must contact your prescriber, authorised service centre or distributor if the device shows reduced or altered performance. A device showing reduced or altered performance must immediately be removed from use to prevent incidents and accidents. The device must not be used again until an authorised technician has examined the device.



Warning! To maintain safety, the device must only be used by the person and purpose for which it is intended.



Warning! You are not permitted to modify the device yourself. If the device is modified, the CE marking will no longer apply and Mercado Medic may no longer have full product liability. Modifications may affect the safety of the device and lead to accidents.



Warning! The Propeller is equipped with a long cable that mustn't be fixated in order for the device to function properly. Cables can pose a strangulation risk to small children, for example. Do not leave the device unattended with small children nearby.



Warning! The Propeller can be affected by interference from mobile phones or other RF communication equipment.



Warning! The Propeller can interfere with other electrical equipment.



Warning! The Propeller is equipped with small parts such as screws that can come loose. Small parts that have come loose can pose choking hazards for children and pets.



Warning! Metal surfaces may become very hot if they are exposed to direct sunlight. Skin contact with hot surfaces can lead to burns. Avoid exposing metal surfaces to direct sunlight.



Warning! Always ensure that the device's brake is applied when sitting down and getting up. If the device is not braked, it risks rolling away when you get up or sit down, which can lead to fall injuries.



Warning! Repairs and other technical measures may only be carried out by personnel authorised by Mercado Medic. If this is not followed, the CE marking no longer applies and Mercado Medic may no longer have full device liability.



Warning! Only batteries and chargers from Mercado Medic that have been tested and approved for use with the device may be used. If using other chargers or batteries, the CE marking is not applicable and Mercado Medic AB's product liability will cease to be valid for any cases regarding the battery, charging or other electronics.

Warning! The Propeller must not be equipped with any accessories or components other than those approved by Mercado Medic. To maintain the CE marking, individual customisation or changes may not be carried out without Mercado Medic's approval. If unapproved components are intended to be used, see section 5.15. Individual adaptation.

Warning! Installation, connection or dismantling is not risk-free. If components are handled incorrectly, for example, crushing damage may occur. This type of work may therefore only be carried out by a Mercado Medic authorised technician.

Warning! All parts of the device must be installed and fixed so that there is no risk of small parts coming loose. All cables must be secured with cable ties to the device's structure to minimise the risk of strangulation.

Warning! The Propeller is not a brake, use the brake lever.

## 6.3. Expected service life

The expected life span of the device is ten years when used in accordance with the instructions for use. The expected service life of the device is calculated from the date of manufacture of the device. The date of manufacture of the device can be found on one of the silver-coloured labels on the device's chassis with the format YYYY-MM (year and month), see Figure 6.1. The label also includes serial numbers and an identifier for the device model (UDI-DI).

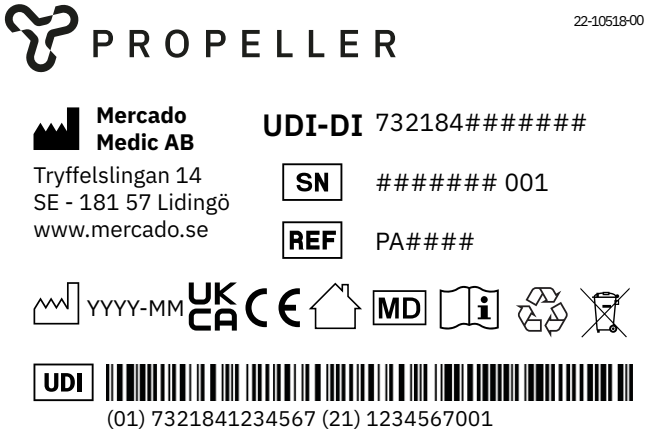



Figure 6.1. Serial number, UDI-DI and date of manufacture on the label.

**PLEASE NOTE!** If the serial number label and the date of manufacture are damaged or destroyed, please contact your prescriber or distributor in the first place for assistance in identifying the device (see 1.1). Contact details. Once the order number or serial number is identified, contact Mercado Medic for a replacement label.

The expected service life of the device battery is five (5) years when the device is charged in accordance with this user manual, see 2.2. Charging.

In markets outside Sweden and Norway where a distributor has sold the device directly to the user (where applicable), and therefore there is no responsible prescriber, periodic maintenance must be carried out at least every other year throughout and after the device's entire expected service life. Maintenance should be carried out according to these instructions for use, see page 8. Servicing and reconditioning, in addition to the overall assessment below.

After the expected service life, Mercado Medic cannot guarantee the suitability and safety of the device, as Mercado Medic has no control over how the device has been used and its wear and tear. After the expected service life, Mercado Medic AB cannot guarantee the provision of spare parts.

**Overall assessment**
After the expected service life, it is important to make an overall assessment of the device before continuing to use it. The overall assessment of the device shall be carried out by authorised personnel of the healthcare organisation if the device has been prescribed and should at least take into account:

- how the device has been used,
- what condition the device and its components are in,
- whether the device has been reconditioned and serviced,
- when reconditioning and servicing have been carried out,
- what has been remedied on the above occasions,
- and the reason for the above remedial measures.

After the expected service life, periodic maintenance at intervals of a maximum of 2 years shall be carried out according to these instructions for use, see 8. Servicing and reconditioning, in addition to the overall assessment below.

## 6.4. Reporting of adverse events and incidents

As a manufacturer of medical devices in the EU, Mercado Medic is obliged to have a system to monitor how our devices work in practical use.

Before our devices are CE-marked and placed on the market, we have taken into account the risks that may be present with them and taken measures to reduce the risks as far as possible. Nevertheless, accidents and incidents can occur when the devices are used. If this happens, it is important that this is reported to both Mercado Medic and the national relevant authority. Use contact details in these instructions for use for reporting, see 1.1. Contact details. Feel free to use email to enable faster handling.

# 7. Technical information

This section describes the dimensions and performance of the device, as well as symbols that appear on the device.



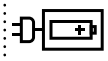
Warning! Repairs and other technical measures may only be carried out by personnel authorised by Mercado Medic. If this is not followed, the CE marking no longer applies and Mercado Medic may no longer have full device liability.

**Device properties for the Propeller**

| | |
|---|---|
| Speed | 1 km/h |
| Weight | 6.2 kg |
| Battery | 805397, Battery Li-Ion 25.2 V 2600mAh 7S1P |
| Battery type | Lithium ion battery |
| Voltage, battery pack | 25.2 V |
| Charger, UK | 805405, Battery charger 29.4 V DC 0.56A 7-cell Li-Ion |
| Driving time | 1.5 h continuous |
| Compatible base | REAL 9000 Plus 48 x 53 cm with 100 mm castors |

## 7.1. Symbols

The following symbols are used on the device controls, in the labelling or in this user manual. For an overview of the location of symbols, see Figures 7.1–7.2.

| No. | Labelling and user manual | |
|---|---|---|
| 1 |  | Warning |
| 2 |  | For indoor use only |
| 3 |  | Date of manufacture |
| 4 |  | Manufacturer |
| 5 |  | Medical device |
| 6 |  | Serial number |
| 7 |  | CE mark showing the device's conformity with the European regulatory framework |
| 8 |  | Electrical components must be disposed of at a special recycling station |
| 9 |  | The device is part of a recycling system |
| 10 |  | Distributor |
| 11 |  | Directory number |
| 12 |  | UKCA mark showing the device's conformity with the regulatory framework in Great Britain |
| 13 |  | Lithium ion battery |
| 14 |  | Charger |
| 15 |  | Charging outlet |
| 16 |  | Read the user manual before use |

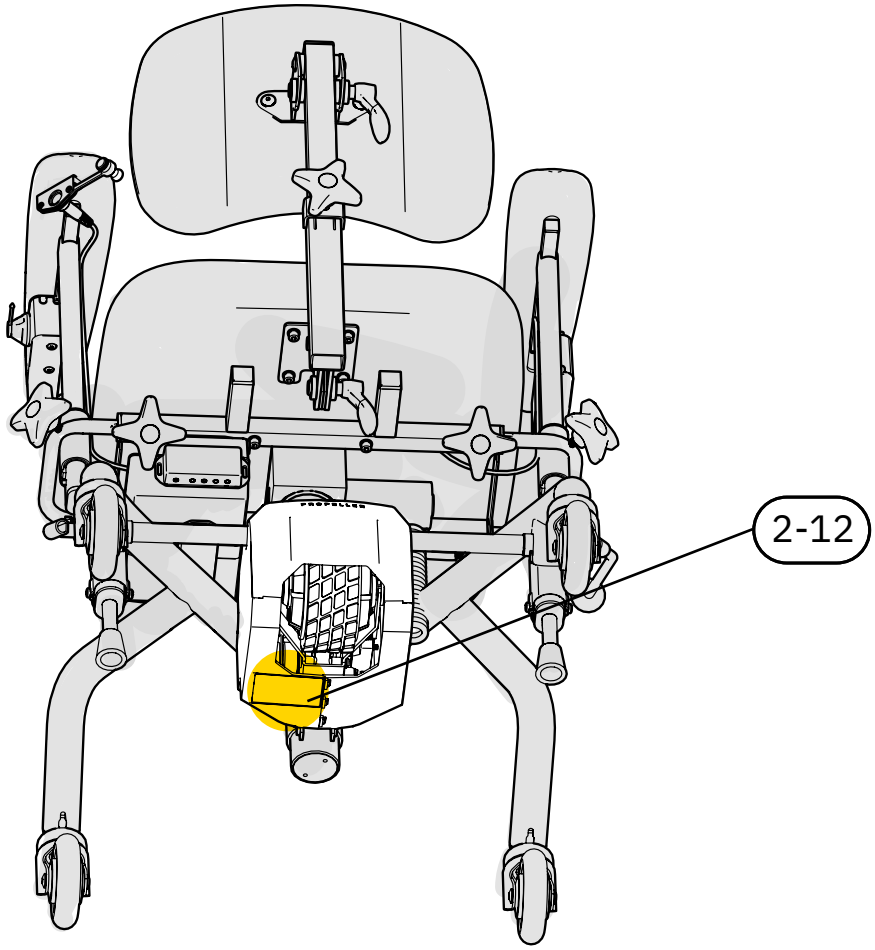



Figure 7.1. Overview of labelling symbols.

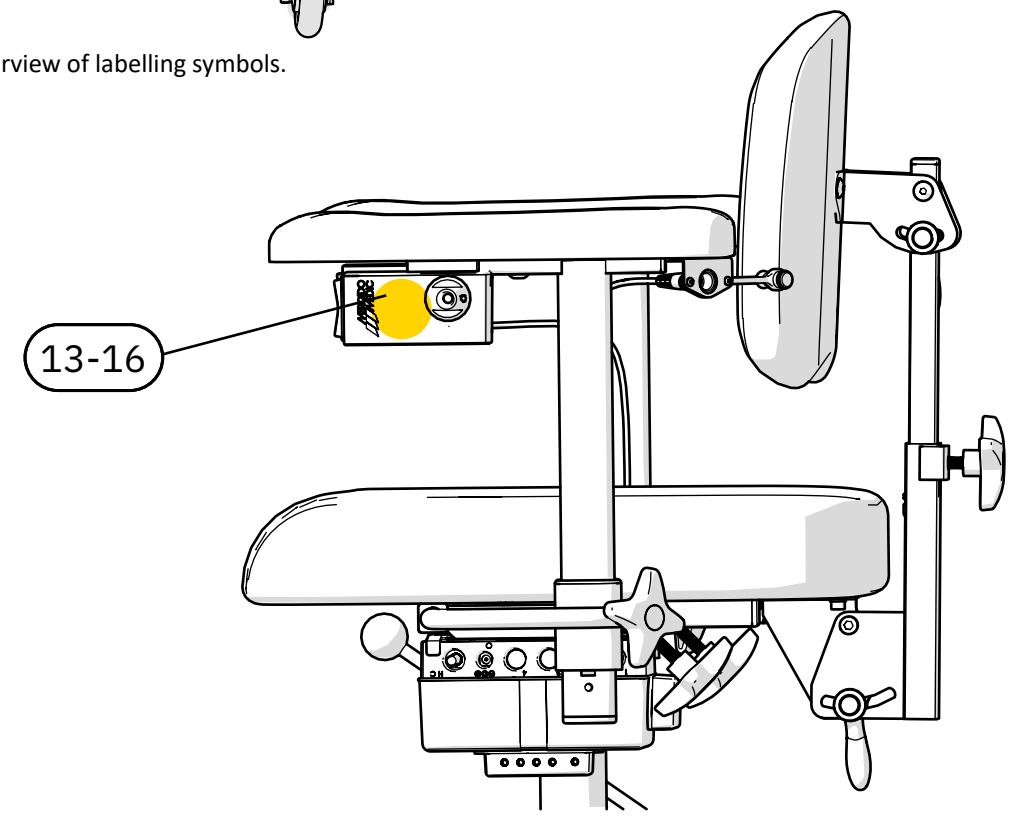



Figure 7.2. Overview of labelling symbols.

# 8. Servicing and reconditioning

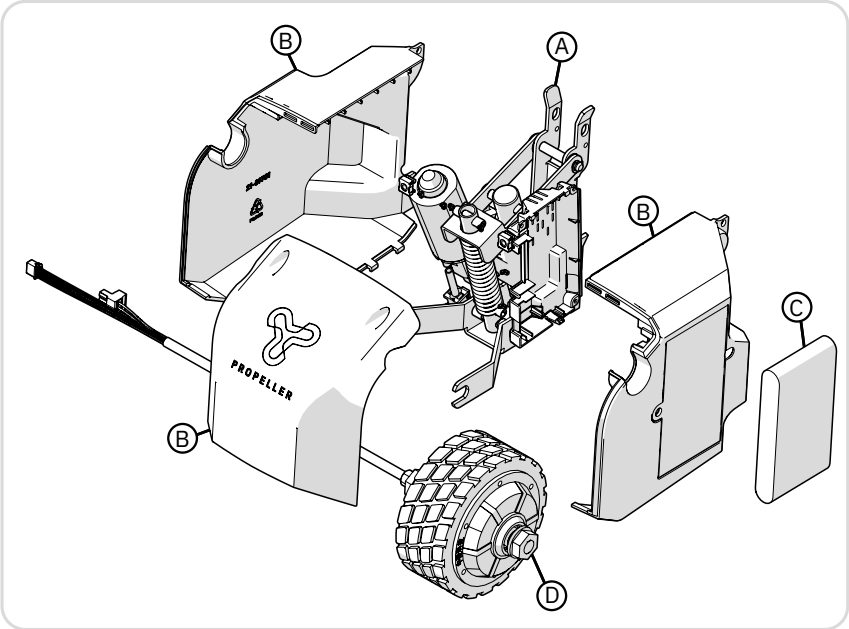
This section describes the inspection and troubleshooting of the device, information about battery replacement and instructions for reconditioning the device. The troubleshooting guide is intended for all users of the device, and the section is otherwise intended for everyone who handles these parts of the device's service life professionally.

**PLEASE NOTE!** The user must not sit in the device while it is being reconditioned or serviced or during maintenance.

**Inspection during service**
When servicing the device, the device's main components must be thoroughly and visually inspected to guarantee the patient's safety. The main components of the device include the chassis, actuator and drive motor.

Warning! Repairs and other technical measures may only be carried out by personnel authorised by Mercado Medic. If this is not followed, the CE marking no longer applies and Mercado Medic may no longer have full device liability.

Warning! As a user, you must contact your prescriber, authorised service centre or distributor if the device shows reduced or altered performance. A device showing reduced or altered performance must immediately be removed from use to prevent incidents and accidents. The device must not be used again until an authorised technician has examined the device.




Ⓐ Chassis

Ⓑ Plastic covers

Ⓒ Battery

Ⓓ Drive motor

## 8.1. Troubleshooting guide

### Troubleshooting electrical functions

| Symptom | Cause | Action |
|---|---|---|
| The actuator does not raise or lower. | The battery needs to be charged. | Charge the device, see 2.2 Charging. |
| The Propeller does not charge. | Make sure the correct charger is being used. | Check the charger's part number, see 7. Technical information. |
| Propeller has stopped working completely. | The control system has locked up. | The control system needs to be restarted, see the assembly instructions for the Propeller, chapter 3.2 |

### Troubleshooting mechanical components

| Symptom | Cause | Action |
|---|---|---|
| Drive wheel is loose. | The drive wheel may not be securely attached. | Check the bracket and rectify any faults. |
| The drive wheel operates at an angle. | The Propeller's bracket may have come loose. | Check the mounting screws and tighten. |
| Abnormal sounds from actuator. | Worn bearings. | Replace chassis*. |
| Abnormal noise in drive motor. | Worn bearings. | Replace the drive motor. |

*The actuator is spring-loaded and therefore must not be replaced. If a problem arises with the actuator, the entire chassis must be replaced.

## 8.2. Battery replacement



Warning! Repairs and other technical measures may only be carried out by personnel authorised by Mercado Medic. If this is not followed, the CE marking no longer applies and Mercado Medic may no longer have full device liability.

The Propeller's internal battery is replaceable. For instructions, see the digital assembly instructions on www.mercado.se.

## 8.3. Reconditioning and periodic maintenance

The device does not require periodic maintenance in cases where it has a responsible prescriber in the healthcare sector. The prescriber and healthcare organisation are expected to follow up the prescription during the lifetime of the device according to the healthcare procedures. During this follow-up, it is important to question the performance of the device and any perceived changes. Where the device is sold by a distributor directly to the user and does not have the responsible prescriber, periodic maintenance at intervals of a maximum of 2 years must be carried out throughout and after the expected service life according to the following reconditioning instructions.

Reconditioning in these instructions for use does not refer to a full restoration or complete refurbishment in the sense referred to in the Medical Devices Regulation (EU) 2017/745, MDR, with a view to putting the device on the market again with a renewed expected service life. Reconditioning in these instructions for use aims instead at a more comprehensive review and service of the device, but where serial numbers are retained and expected service life remains unaffected. The purpose of this reconditioning may be, for example, to make the device suitable for prescribing to a new user.

**Inspection during reconditioning**
When reconditioning the device, the main components must be thoroughly and visually inspected to guarantee the patient’s safety. The main components of the device include the chassis, actuator and drive motor.

**Replacement of components**

On www.mercado.se there are various forms of substrate for changing components, such as exploded diagrams, assembly instructions, connection guides and digital item search. Installation instructions can also be used to disassemble the device's components.

For accessories and spare parts please visit our webshop https://shop.mercado.se/.



Warning! Installation, connection or dismantling is not risk-free. If components are handled incorrectly, for example, crushing damage may occur. This type of work may therefore only be carried out by a Mercado Medic authorised technician.



Warning! All parts of the device must be installed and fixed so that there is no risk of small parts coming loose. All cables must be secured with cable ties to the device's structure to minimise the risk of strangulation.

**Long-term battery storage**
The battery in the Propeller does not need to be disconnected. In the event of prolonged storage, the battery must be charged every four months to retain its functionality (see 2.2). Charging. If these charging instructions are followed, the battery will maintain sufficient capacity for five (5) years.

**PLEASE NOTE!** It is important that the mains plug is disconnected between charges.

**Reconditioning instructions**
Do not use high pressure washers when cleaning the device. For instructions on everyday cleaning, see 3. Caring for the device.

The following points must be done during reconditioning to ensure patient safety:

| ID | Area | Reconditioning instructions |
|---|---|---|
| **1 Cleaning** | | |
| 1.1 | Plastic covers | Use a clean, damp cloth with mild detergent (pH 7–12), surface disinfectant or use a steam cleaner (max. 8 bar).<br><br>**PLEASE NOTE!** Do not wash the device with water, other liquids or chemicals. |
| 1.2 | Electronics and cables | Remove dust with a dry cloth. |
| 1.3 | Operating controls | Wipe the operating controls with a cloth lightly dampened with disinfectant. This is so as not to pass on any possible infection. |
| 1.4 | Actuator | Moving parts are lubricated and must therefore not be cleaned. |
| 1.5 | Drive wheel | Remove hair and dust from the drive wheel. |

| ID | Area | Reconditioning instructions |
|---|---|---|
| **2 Electrical components** | | |
| 2.1 | Electronics | Start by charging the device until the charger lights up green (see 2.2 Charging). |
| 2.2 | Charger | Check that the charger is working and that the casing and cables are undamaged. |
| 2.3 | Controls | Make sure that the control buttons and hand control are working and that the housing and cables are intact and undamaged. |
| 2.4 | Contacts | Check that cables and connectors are intact and properly secured. Check that there is no risk of crushing cables and connectors, and that all cables are fastened with cable ties. |
| 2.5 | Batteries | Check and verify the battery's voltage level. If the voltage is low after charging, the battery needs to be replaced (see assembly instructions for the Propeller on www.mercado.se. Remember that the expected service life of the batteries is five (5) years if these are maintained according to this user manual. This means that it may be time to replace them depending on when the reconditioning is complete and what remedial actions have been taken on the device in the past. |

| ID | Area | Reconditioning instructions |
|---|---|---|
| **3 Actuator** | | |
| 3.1 | Abnormal sounds | Listen for abnormal sounds in the actuator. Replace the chassis if abnormal sounds are heard. |
| 3.2 | Cabling | Inspect cables for any signs of wear or damage caused by pinching. |
| 3.3 | Actuator | Check that the actuator is not visibly damaged. Check the function of the actuator’s moving parts. Check that all locking screws are tightened to avoid any play in the end position. |

| ID | Area | Reconditioning instructions |
|---|---|---|
| **4 Drive motor** | | |
| 4.1 | Abnormal sounds | Listen for abnormal sounds in the drive motor. If abnormal sounds are heard, replace the drive motor. |
| 4.2 | Bracket | Check that the drive motor’s attachment to the Propeller is properly tightened. Replace any screws that have damaged sockets or threads. |
| 4.3 | Cabling | Inspect cables for any signs of wear or damage caused by pinching. |
| 4.4 | Drive motor | Check that the drive motor is not visibly damaged. Check its operation and make sure that all locking screws are tightened to avoid any play. |

| ID | Area | Reconditioning instructions |
|---|---|---|
| **5 Chassis** | | |
| 5.1 | Chassis | Check the welds for damage and any cracks. Also, check the rotation points and make sur that all cable ties, screws and nuts are tight and positioned as intended. |
| 5.2 | Bracket | Check that the Propeller’s attachment to the base is correctly assembled and tightened. Replace any screws that have damaged sockets or threads. |

| ID | Area | Reconditioning instructions |
|---|---|---|
| **6 Final inspection** | | |
| 6.1 | Final inspection | Test drive the device and check the electrical functions. |

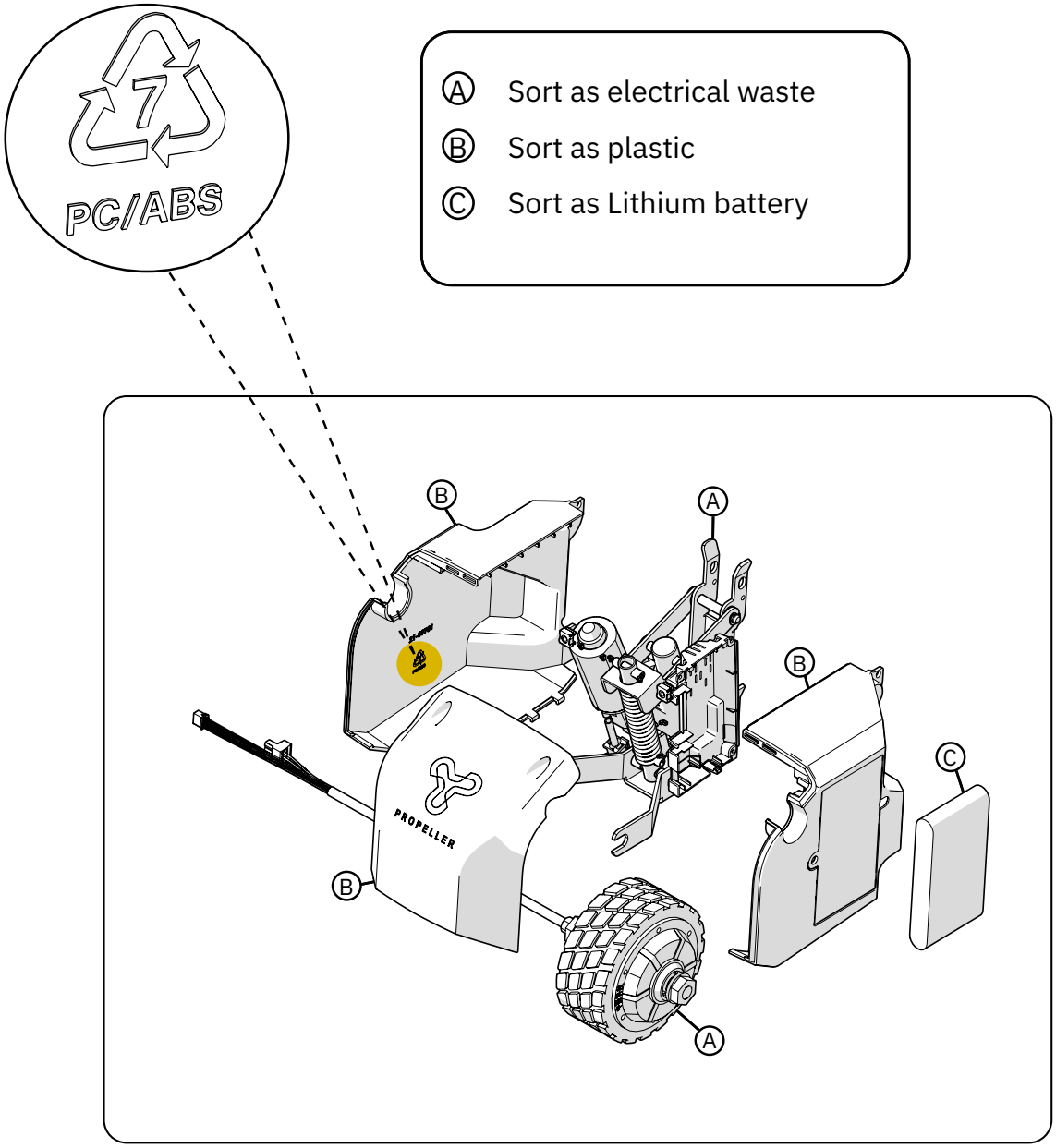
# 9. Disposal instructions

Devices permanently decommissioned must be dismantled and sorted in a correct and safe manner. At the website www.mercado.se there are installation instructions that can also be used to dismantle the device's components. The components should then be discarded in the relevant manner, see 9.1. Recycling.

Warning! Installation, connection or dismantling is not risk-free. If components are handled incorrectly, for example, crushing damage may occur. This type of work may therefore only be carried out by a Mercado Medic authorised technician.

## 9.1. Recycling

Instructions for recycling the components used.



This page has been deliberately left blank




MERCADO MEDIC