



YOMPER+

User Manual

# Table of Contents

## 1 Introduction p.2

- Indications p.2
- Contraindications p.2
- Precautions for use p.3
- Special conditions of use p.5
- Electromagnetic interference (EMI) p.5
- Component lists p.6

## 2 Installation p.7

- Installing the Yomper support p.7
- Installing the EasyGo box support p.7

## 3 Commissioning p.8

- Power on p.8
- Installing the Yomper p.8
- Installing the control box p.9
- Connecting the box to the Yomper p.9
- Controls and Modes p.10
- Recharging batteries p.12
- Control for assistant (optional) p.14

## 4 Functions and settings p.15

- Control box display p.15
- Settings menu p.15
- Pairing p.16

## 5 Maintenance p.17

- Checks and revision period p.17
- Cleaning p.17
- Transport p.17
- Materials and protection p.17
- Safety instructions for transport p.18
- Air travel informations p.18
- Storage p.19
- Battery maintenance p.19
- Removing the battery p.19
- Reuse p.20
- Elimination p.20

## 6 Troubleshooting p.21

## 7 Warranty p.25

- Included in warranty p.25
- Warranty exclusions p.25
- Withdrawal p.26

## 8 Technical specifications p.26

- Compatibility p.27
- List of symbols and descriptions p.27

## 8 Maintenance follow-up p.28

# 1 Introduction

## Indications

The Yomper is designed exclusively to assist manual wheelchairs, enabling people with reduced mobility to move around with less effort, for user weights ranging from 30 to 330 lb (14 to 150 kg).

Its use is reserved exclusively for people who are physically and mentally capable of using a wheelchair.

The Yomper can be used in manual mode (forward, maneuvering and braking), alone or accompanied by an attendant taking over the electric assistance. The Yomper can also be used in push-assist mode by an assistant, using a separate attendant control (optional).

The attendant must be physically and mentally capable of maneuvering (forward, reverse, turning, braking) the manual wheelchair with a person sitting in it.

The Yomper must be installed on a compatible manual wheelchair. See «Wheelchair compatibility» in the technical specifications, page 26 of the manual.

The Yomper must be installed by a professional. It is the professional's responsibility to check the user's ability to handle the Yomper.

## Warnings

Incorrect use of the Yomper or the wheelchair to which it is attached to, depending on the surface, climate and traffic conditions, may present a potential hazard and cause damage to the wheelchair, the Yomper or the user. The Yomper must be handled and used in accordance with the following recommendations:

- The user is physically and mentally capable of using a wheelchair and the Yomper in all conditions and situations.
- The user has fully understood and read the instruction manual.
- No technical modifications have been made to the equipment.

The user must take the time to become familiarized to the Yomper's performance by using it in a safe, hazard-free area. The user must become familiar with the thrust, braking, acceleration and maximum speed of the equipment before venturing outdoors where risky situations may arise. Users are strongly advised not to use the Yomper outdoors until they have become familiar with it indoors.

If a malfunction occurs, stop the Yomper and contact your dealer's technical service department. Any use that does not comply with the instructions in this manual, or with your dealer's recommendations, or with the technical limits defined by your Yomper or wheelchair supplier, is considered misuse of the Yomper.

Amylior is not responsible for any damage to property or personal injury that may occur as a result of misuse of the Yomper or failure to follow the instructions in the user guide.

If you have any problems understanding the warnings and instructions in this manual, please contact your distributor or supplier.

## Precautions for use

All safety precautions specified by the supplier of your wheelchair must be followed in addition to the recommendations set out in this manual. Failure to do so could result in serious injury or death.

- Handling or use of the Yomper by anyone who has not read the instructions in this manual may cause serious injury.
- You should familiarize yourself with the Yomper's performance before using it on a regular basis. Only drive outdoors when you can handle the system perfectly, without colliding with walls or other objects.
- Adding the Yomper to your wheelchair gives it a different feel. Take the time to familiarize yourself with these new sensations.
- The Yomper's operating methods are different for each user, depending on their capabilities and level of disability.



**Using an anti-tilt device is MANDATORY with a Yomper. It will prevent you from tipping over backwards.**

- The specifications provided by the wheelchair supplier may be slightly affected by the addition of Yomper.
- Do not use your Yomper on an escalator or moving walkway. You risk serious injury.
- Do not lean backwards to reach objects, as this could cause your wheelchair to tip over.
- The wheelchair's center of gravity may be affected by the addition of the Yomper.
- Do not lean forward or change your seat position to reach something in front of you, as this could cause the wheelchair to tip forward or onto its side.
- Make sure the battery is fully charged before use.
- Always switch off the EasyGo box when parked to prevent the wheelchair from accidentally starting up.
- The Yomper is not intended for use in heavy rain, snow, or on wet or frozen surfaces, which could cause malfunction or damage. Do not use it in these conditions or on these surfaces.

- Do not use the Yomper on rough terrain, slippery surfaces, extreme slopes or unstable ground. Doing so may cause injury or damage to the Yomper and void the warranty.
- Use extreme caution when operating the Yomper in confined spaces. Reduce power to reduce the risk of damage or injury.
- Use extreme caution when operating the Yomper in narrow streets. Reduce power to reduce the risk of damage or injury.
- The 'outdoor' mode is not intended for indoor use. Use caution when using this mode.
- When climbing uphill or downhill, refer to the instructions and specifications provided by the manufacturer of your wheelchair.
- Riding over sidewalks or obstacles can cause your wheelchair to tip over, resulting in serious injury. Switch off the Yomper when riding in these situations. If you are in any doubt about how to negotiate an obstacle, ALWAYS ask for help. Be aware of your personal abilities and limitations. Only develop your skills with the help of another person.
- When crossing roads, intersections, railroad crossings or driving on slopes, be accompanied for safety reasons.
- Take care when transferring. Every precaution must be taken to reduce the distance when transferring, and to ensure that the wheel lock is operational to prevent the wheels from moving. Always switch off the EasyGo box or Yomper and detach it if necessary when transferring.
- The Yomper is not designed for climbing steps or sidewalks. Do not carry out this maneuver unless absolutely necessary, and ask for help. Switch off or disable your Yomper.
- Do not attempt to attach the Yomper to a wheelchair that does not meet the «Wheelchair Compatibility» dimensions on the specification sheet on page 27 of this manual.
- Any modification of the Yomper voids the warranty and may result in a malfunction affecting the safety of the system.
- Any serious incident occurring in connection with the device should be notified to the manufacturer or the authorized dealer.

## 1. Special conditions of use

**Use on a steep slope:** Lean forward to avoid tipping over backwards.

**Sidewalks:** The Yomper must be stopped (by pressing the main button) before going up or down a sidewalk.

**Use in 2-wheel mode:** The Yomper must be switched off (by pressing the main button) before 2-wheeling. Otherwise, you risk tipping backwards when the Yomper motor touches the ground.

**Off-road use:** The Yomper can help you go off-road, pushing you slowly but surely. **However, we recommend that you take great care when using it off-road.** Few manual wheelchairs are suitable for off-road use, especially those with small front wheels. Your front wheels could get stuck on uneven ground, and you could tip over, all the more so as you're dragged along by the Yomper.

### Electromagnetic interference (EMI)

Interference comes from radio sources, e.g., radio/TV transmitters, cell phones, walkie-talkies, etc. There are many sources of EMI in your environment, some of which you can avoid, others of which you won't notice. The systems electronic devices such as the Yomper are sensitive to strong EMI, + or -. Such interference may cause unintentional activation of the Yomper or damage to the control system, potentially leading to breakdowns and costly repairs.

All power wheelchairs or similar systems can resist EMI up to a certain point, also known as the 'immunity' level. The higher the immunity level, the lower the risk of EMI. An immunity level of 20 V/m provides sufficient protection for everyday sources. The Yomper has been tested to resist up to 20 V/m.

Even if equipped with sufficient protection, any modification to the wheelchair or addition of accessories may affect this immunity. Parts from other suppliers have unknown properties and their interaction with the Yomper has not been tested.

Electromagnetic energy becomes more intense the closer you are to the source. It is therefore recommended not to use the Yomper close to radio sources. There are 3 categories of EMI:

- Long-distance transmitters: radio sources, commercial radio, TV station tower antennas and amateur radios.
- Medium-range mobile transmitters: radio sources, including radios used by emergency vehicles, tractors and cabs.
- Mobile transmitters: the waves are not very powerful: walkie-talkies, CBs, cell phones and other personal means of communication.

Cordless telephones, MP3 or CD players, TV or AM/FM radios do not present any risk. If the Yomper is switched on unintentionally, switch off the system and report the incident to Amylior Technical Support (indicate any EMI sources that were nearby when the incident occurred).



### Yomper components


Aluminum chassis.....	1
Brushless motor 24 V 250 W.....	2
Electronic controller.....	3
Start/stop button (on/off) .....	4
Carrying handle.....	5
Release lever.....	6
Assistant connector.....	7
Battery charging socket.....	8
Battery gauge.....	9
Battery access cover.....	10
Battery charger.....	11
Wall socket (110 V).....	12
Load connector.....	13

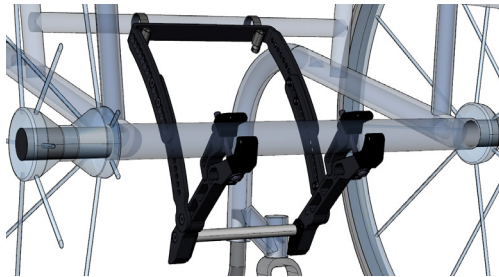
### EasyGo controller

Main button (on/off).....	14
Speeds	
(+/- according to parameters).....	15/16
LED display.....	17
Speed level/Modes .....	18
On/off button .....	19
Micro USB charging socket .....	20
USB charging cable.....	21
Case support strap.....	22
Attendant control (optional).....	23

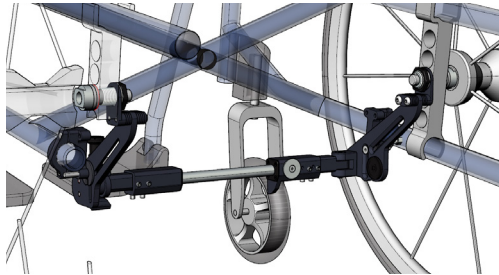
## 2. Installation

### Installing the Yomper support

 Installation must be carried out by your medical equipment provider.



Example of a rigid chair frame support

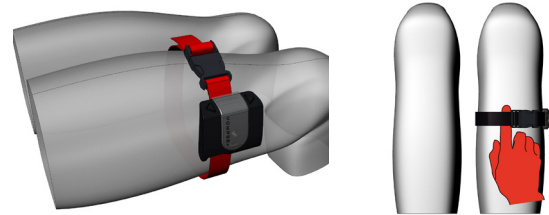


An example of a support for a folding chair frame


- To install the various brackets, please refer to the installation guides supplied with each bracket.

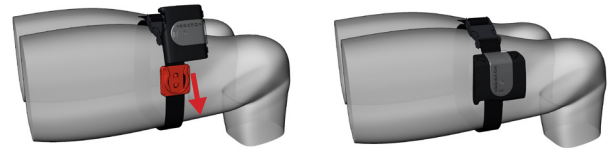
### Installing the EasyGo box support

#### • On the leg



Check the direction of the strap. Clip and turn the strap so that the housing support is correctly positioned.

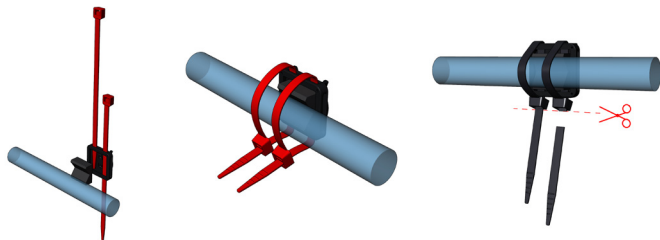
 Don't fasten the strap too tightly, as this will impede blood circulation. A finger should be able to fit between the strap and your leg.



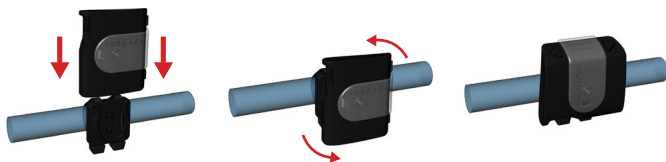
## On the wheelchair frame

Position the opening upwards.

Use the supplied plastic zip ties and the rubber blocker.



Tighten on the tube and cut off the excess zip ties.



Engage and turn the control box to lock.



## 3. Commissioning

### Power on

Check that the EasyGo control box is in the off position (display off, LEDs off).

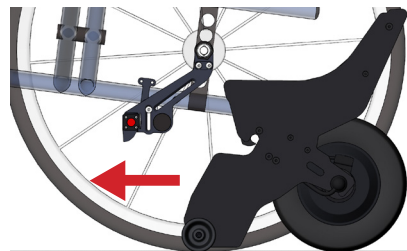


Press the Yomper on/off button (4).

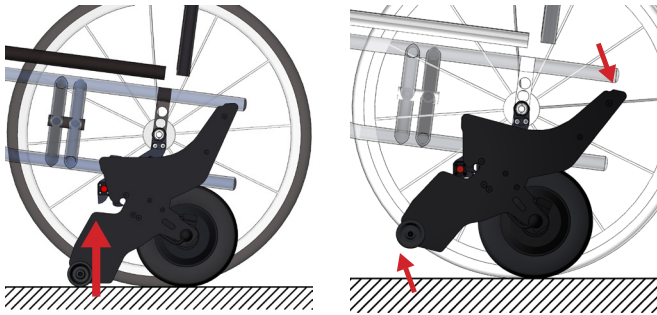
A flashing LED indicates that the Yomper is waiting to be connected to the control box.

### Installing the Yomper

Place the Yomper on the floor behind the wheelchair and roll it forward as indicated by the arrow.



The front castors ensure stability during the set-up.

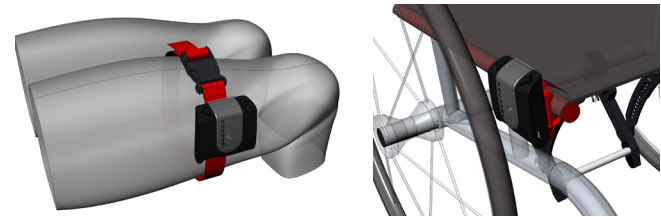


When the frame lip touches the drawbar, push the handle down to slide the Yomper onto the drawbar. Keep the release lever open during this operation.



**!** Once in place, verify that the Yomper is correctly engaged.

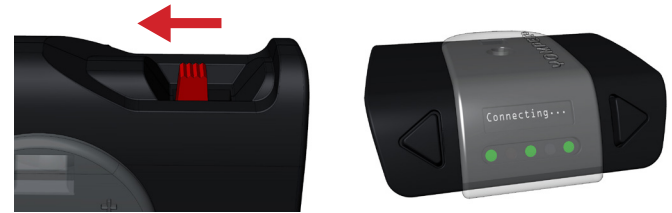
### Installing the EasyGo control box



Install the EasyGo control box on its bracket:

- On your thigh
  - On the wheelchair frame
- (See installation procedures on page 7-8)

### Connecting the EasyGo control box to the Yomper



To turn on the control box, push the on/off button (19).

During the connection phase, LEDs 1, 3 and 5 light up.

Once the connection has been established, the LED strip changes to flashing green at 1st speed (indoor mode).



The LED on the EasyGo box flashes, the LED on the Yomper on/off button stops flashing: you're ready to use the Yomper.

### Controls and modes



**Start:** Press the main button on the control box twice, and the Yomper instantly starts up at speed 1 (the LED on the control box stops flashing).

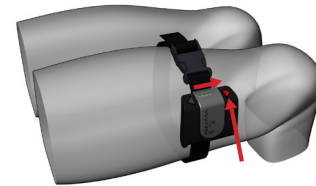


**Stop:** Press the main button once, the Yomper motor stops (LED on housing flashes).

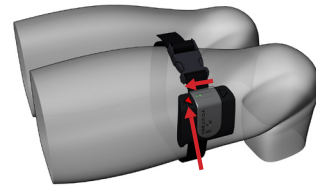


You need to stop the wheelchair, as the Yomper has no brakes and freewheels.

You can change the speed while driving or stationary.



**Accelerate:** Press the arrow furthest from you to increase speed.



**Slow down:** Press the arrow **closest to you to reduce** speed.

The LEDs show you the speed level (5 maximum).



Starting at speed 2 or 3 is also possible to facilitate hill launching of the Yomper.

*(later versions than Yomper + 2.7.0).*

The actual speed at which you propel the Yomper depends on:

- The selected speed (from 1 to 5).
- The current mode (indoor, green LED strip, outdoor, red LED strip).
- Yomper settings.



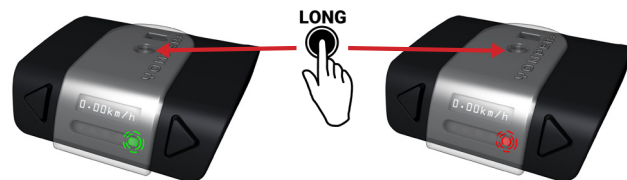
**In indoor mode, you can also brake on the hand rims to stop the Yomper's motor.**



**! In outdoor mode, you only need to press the main button to stop the Yomper motor.**

**To change mode** (indoor, outdoor), press the main button for more than 2 seconds: the LED strip changes color. You were in indoor mode (GREEN), now you're in outdoor mode (RED). From outdoor mode (RED), switch to indoor mode (GREEN).

Your actual speed will automatically return to level 1 (the lowest).



After use, switch off the control box using the on/off button. The Yomper goes into standby mode, with the on/off button flashing rapidly.



You can leave the Yomper in standby mode. However, we recommend that you physically switch it off every evening.

**! It's a good idea to switch off your control box as soon as you stop using the Yomper. The system is then safe and cannot be started inadvertently.**

## Recharging batteries

A battery gauge is located on the rear panel of the Yomper. Press the gauge button to see the Yomper's battery charge level.



It is broken down into 4 levels and gives an approximate indication of the battery's charge level.

■ ■ ■ ■	.....	100 to 75%
■ ■ ■ □	.....	75 to 50%
■ ■ □ □	.....	50 to 25%
■ □ □ □	.....	Less than 25%

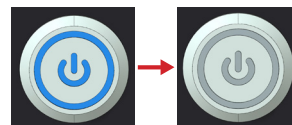
You can also use the control unit to check the Yomper's battery charge level (see Section 4 Functions and settings, page 15).

**ATTENTION:** Switch off the Yomper using the appropriate button (4).



**The drive unit must be completely deactivated before charging. If the drive unit is on the wheelchair during charging, the wheelchair must be secured with its parking brakes to prevent unwanted movement!**

**To charge:** Switch off the Yomper using the on/off button. Plug the charger into a 110 V wall socket.



Connect the charger to the battery as shown below.



When charging, the charger LED is **RED** and then changes to **GREEN** once the battery is charged.



Battery charged



Battery charging

To **fully charge** the battery (if it was completely discharged), you need:

**Approx. 4 hours for the 24 V 160Wh battery**

**Approx. 6 hours for the 24 V 240Wh battery**

**⚠ Never charge batteries in the presence or proximity of flammable liquids or gases.**

- In the unlikely event of a battery overheating or catching fire, it must never come into contact with water or other liquids. The only useful extinguishing agent recommended by battery manufacturers is sand or a Class D extinguisher.
- Never charge in rooms where moisture could condense on Yomper components and battery.
- Never charge batteries at temperatures below 0°C or above 40°C.

**⚠** To charge the EasyGo control box, **you need to switch on your EasyGo** and plug in the micro USB cable.



A charge indicator appears on the EasyGo display.

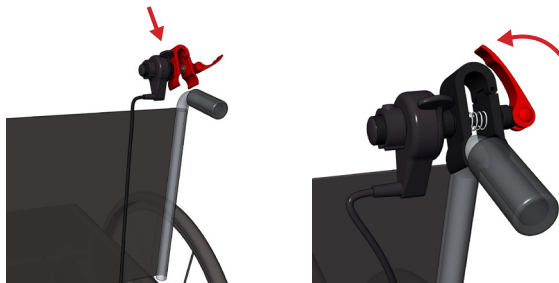
**⚠** Switch off your Yomper to prevent inadvertent starting.


**⚠** Use a USB charger with a maximum output voltage of 5.0 V.

Using a USB charger with an output voltage higher than 5.0 V will cause irreparable damage to the EasyGo control unit.



## Control for attendants (optional)



 To prevent incorrect operation, we recommend connecting the attendant control after securing the Yomper to the wheelchair.

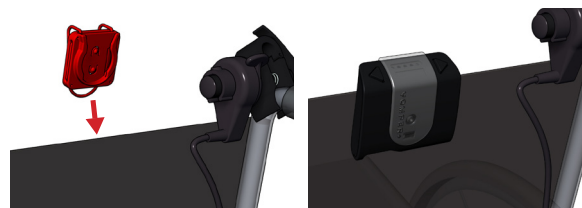
Fit the attendant control to the handle. Plug the attendant control into the back of the Yomper.



Secure the control box to the backrest using the fastener.




When connected, the attendant control takes control of the EasyGo for speed monitoring.



The maximum speed limits of the attendant control correspond to the speed selected on the EasyGo control box.

**If you don't want to use the EasyGo control box**, plug in the attendant control directly, and wait for a rapid flash. You can then use the assistant drive alone, but it will be limited to 3.7 mph (6 km/h) max.

 **To prevent malfunctions, it is essential to ensure that the attendant's drive cable is free from obstructions. The cable must be easy to remove and must not be tangled in the tubing of the wheelchair or Yomper.**

## 4. Functions and settings

### EasyGo control box display

By default, the screen can display:



Yomper speed



Yomper battery level (YP)



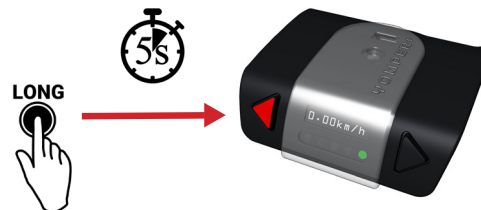
The battery level of the control box (BTN)

To select one of these displays, Yomper off, LED flashing, press and hold one of the arrows.

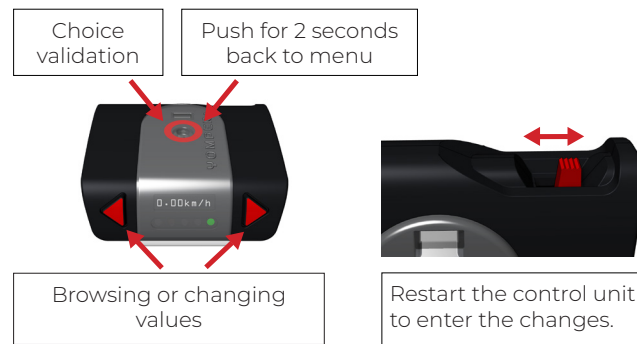
### Settings menu

To change the settings, the Yomper must be switched off.

To access the menu, press and hold the arrow button furthest from you for more than 5 seconds.



The menu functions:



## Menus:

**Scan:** Pairing the button with a Yomper.

**Inside speed:** Choice of 5 inside speeds, within the limit set by the healthcare professional.

**Outdoor speed:** Choice of 5 outdoor speeds, within the limit set by the healthcare professional.

**Acceleration:** Choice of acceleration level (1 to 5, 5 being the highest acceleration).

**Resistance:** Choice of the resistance force to stop the wheelchair in indoor mode (1 to 5, 5 being the strongest resistance).

**Side button:** Choice of left or right direction for placement on the wheelchair (reverses the buttons «**<**» and «**>**» and the display orientation of the LED strip).

**Default display:** Choice of default display.

**Data:** Displays of data stored in the Yomper (total kilometers traveled, indoor/outdoor time, number of uses, number of Ah consumed by the Yomper since purchase or last firmware update).

## How it works:

- Press "**<**" or "**>**" to change menu.
- Enter the menu via the main button.
- Select the function to be modified, change the value with "**<**" or "**>**", confirm your choice with the main button.
- Restart the control unit to apply the changes in values.

## Example: Changing speed 2 in indoor mode

- Turn on the control unit.
- Press "**>**" for more than 5s to enter the general menu.
- Press "**>**" to select the « **Inside speed** » menu.
- Press the main button to confirm your choice.
- Press "**>**" to display: « **Inside Speed, 2=XX** ».
- Press the main button to modify the speed.
- Press "**<**" or "**>**" to change the value.
- Press the main button to confirm and save your choice.
- Press the main button for 2s => restart the control unit.

## SCAN: Pairing

When using an EasyGo box for the first time, you must pair it with the Yomper.  
Have your Yomper certificate of conformity ready.

- Turn on the Yomper
- Turn on the control unit
- In the menu, select SCAN/Pairing, then press the main button to confirm.
- Then press the main button again to start SCAN/Pairing.
- **The Mac address** of the Yomper appears on the screen; verify that it matches the one for your Yomper using your certificate of conformity (use the "**<**" or "**>**" to select the correct MAC address) and confirm with the main button.
- Restart the control unit

## 5. Maintenance

### Maintenance checks and servicing frequency

Regularly check the tightness of the various mechanical parts of the support.

Check the condition of your tires twice a year.

Ensure regular inflation to **29 psi**.

Once a year, have your dealer check that all mechanical components are in good working order. Motor nuts should be tightened to **25 Nm (18.4 lb ft)**.

### Cleaning

The Yomper can be cleaned with a damp cloth.

Water entering the drive or control unit can damage it.

Never clean these components with running water or a high-pressure washer.

Make sure that liquids and moisture never penetrate the components!

Cleaning requires special attention.

In particular, please respect the following instructions:

- All cleaning should be carried out with a slightly damp cloth.
- Do not use abrasive products or aggressive cleaning agents for cleaning.
- Never clean with running water, such as a garden hose or high-pressure washer.

Water could penetrate the electronic system and cause irreversible damage. Amylior declines any responsibility for damage or consequential damage caused by water.

Such cases exclude all warranty claims.

**CAUTION: Do not use detergents, flammable or corrosive products.**

### Transport

For transport, remove the Yomper and EasyGo box from the wheelchair and store them in a safe place (preferably using the carrying case and control box case). Whether mounted on the wheelchair or stored separately - in both cases the Yomper and EasyGo box must be switched off.

### Materials and protection

All the materials used are corrosion-resistant and resistant to disinfectants: aluminum plates; galvanized and stainless steel screws; plastics.

In case of heavy rain, protect the EasyGo control box while driving (use a «Ziploc» type of plastic bag).

## Safety instructions for transporting the Yomper

Lithium-ion cells are used in the battery built into the Yomper. The transport and shipment of the Yomper are therefore subject to legal provisions which must be strictly observed. For example, a defective device cannot be transported by air, either in the cabin or in the hold.

As transport regulations may change from year to year, we expressly recommend that you contact your travel agency, airline, shipping company or rail company before you start your journey to inform yourself of any changes.

Our transport certificate can help you with this.

You can obtain it from your dealer, or download it from our website [www.amylior.com](http://www.amylior.com) or by scanning the QR code according to the type of battery. If you need any help, please contact our customer service department at [info@amylior.com](mailto:info@amylior.com).



Yomper+ / Ref YP2606  
24V / 6.6 Ah / 160W



Yomper+ / Ref YP2610  
24V / 10 Ah / 240W

If your Yomper is faulty, please take it to your retailer personally, as postal delivery or shipment by a carrier is strictly regulated due to the presence of lithium-ion batteries. We therefore recommend that you contact your dealer beforehand.

## Transporting the battery by plane

The technical design of the Yomper, in particular its integrated lithium-ion battery, complies with the standards, directives and laws in force. It meets the requirements of the International Air Transport Association (IATA) for air transport. We confirm this every year with our transport certificate, issued on the basis of the latest edition of the IATA Dangerous Goods Regulations, usually published in mid-December each year. You can download the current certificate from the Amylior website ([www.amylior.com](http://www.amylior.com)). We can also send it to you on request.

When planning a trip, contact your tour operator or airline to find out how the Yomper can be carried on all the flights you have booked. It is ultimately the pilot's decision whether or not to carry the Yomper. Neither Amylior nor your dealer can influence this decision.

If you are taking the Yomper on board a plane, we advise you to pack all the components in its carry case.



**When travelling, observe the regulations in force concerning the transport of lithium-ion batteries in the countries you visit.**

## Storage

If your wheelchair, with the Yomper, is to be stored for an extended period (e.g., several months), the following points must be applied:

- Store your wheelchair in accordance with the manufacturer's instructions.
- Store the wheelchair and all Yomper components in a dry place.
- Make sure no moisture penetrates or deposits on the wheelchair or Yomper components.
- Ensure that the wheelchair and Yomper are not exposed to direct sunlight for long periods (e.g., through a window).
- Ensure that no unauthorized persons, especially children, have unsupervised access to this area.
- Follow the storage instructions for the battery pack.
- The wheelchair and Yomper components must be cleaned before being used again.
- In the event of decommissioning, check whether maintenance is required and, if so, arrange for it to be carried out.
- Recharge the batteries to about 80% and switch off the Yomper and EasyGo box.
- In the event of prolonged storage, recharge the batteries once a month.

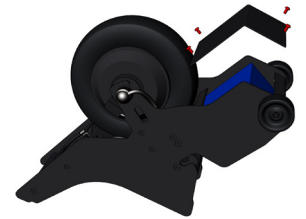
## Battery maintenance

Yomper and EasyGo are equipped with lithium batteries, with no memory effect. You can recharge them as often as you like without affecting their lifespan.

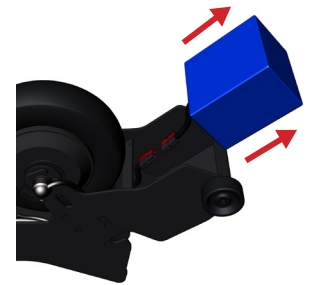
They are maintenance-free.

## Battery disassembly

With the Yomper switched off, turn the Yomper upside down and unscrew the 4 cover screws.



Remove the battery to access the connectors. Remove the connector lock and disconnect them.



## Reuse

If necessary, the Yomper can be completely disassembled from the manual wheelchair (including the support), to restore the original manual wheelchair, without any structural modifications to the manual wheelchair.

After this, the Yomper can be reinstalled on any other compatible wheelchairs.

If the Yomper has been provided to you by your health insurance and you no longer need it, please contact your health insurance provider, or your dealer. Your Yomper can be reused easily and economically. Before each reuse, the maintenance of the Yomper must be carried out. The fasteners and adapter shafts with which the Yomper components are mounted on your wheelchair can be easily and quickly removed from your old wheelchair and reinstalled on a new wheelchair by an authorized provider. In addition to the cleaning instructions provided in Section 5, before any reuse, all plastic parts of the Yomper components accessible from the outside must be disinfected. For this, wipe the product clean by using a mild disinfecting agent according to the manufacturer's instructions.

## Disposal

This device, its batteries and accessories are long-life products.

However, they may contain substances that are harmful to the environment if they are disposed of in unsuitable places. (e.g., landfill sites) that are not intended for this purpose under the legislation currently in force in the corresponding country.



The «crossed-out wheeled garbage bin» symbol (in accordance with the US Environmental Protection Agency, EPSC in Canada or WEEE in Europe) is found on this product to remind you of the recycling obligation.

Please respect the environment and dispose of this product at the end of its useful life at your local recycling center.

Find out about current waste disposal legislation in your country.

## 6. Problem solving

Before contacting your dealer, please check the following points:

Failure	Solution
Yomper does not light up	Check that a light appears after pressing the on/off button. Check the battery gauge and recharge your Yomper. Visually check the condition of the cables and Yomper without disassembling anything.
Yomper does not charge	Check that your 110 V wall socket is working properly. Make sure it's the right charger. Check that the charger changes from green to red during charging. Check the state of the charging plug on the Yomper. Check the gauge before charging, and after 2 hours verify status.
EasyGo box doesn't turn on	Push the button towards ON (it must be pushed towards the center of the button). Charge the EasyGo box (It takes 10 minutes before a display to appear).
EasyGo box does not charge	Check that the box is in the ON position. Charge the EasyGo box. (Wait 10 minutes for the display to appear).
EasyGo box displays "Connecting" for more than 10s	Check that the Yomper is switched on. Re-pair Yomper/EasyGo see p.16

Failure	Solution
Yomper stops suddenly	<p>This can happen if the slope is too steep, or the wheelchair is too heavy or deflated. You need to manually assist the Yomper, or play with its gears. This is a safety feature to prevent the motor from overheating.</p> <p>When your battery is low (&lt; 20%), the Yomper may also «stall» during an intense effort. After a few seconds, you'll be able to get going again. We recommend that you help the Yomper up steep inclines, so that you can use it without any problem on flatter surfaces.</p> <p>We recommend recharging your battery.</p> <p>If you have many routes requiring constant effort from the Yomper, or if you have a heavy user, we recommend the optional 240 Wh battery, which will be more efficient over time.</p> <p>In indoor mode (green LED), too much resistance stops the motor (just like the brake on hand rims). Switch to outdoor mode or increase resistance.</p>
The Yomper doesn't stop	<p>In indoor mode, this can happen if the resistance level is set too high.</p> <p>At parameter level, reduce the resistance.</p> <p>Even when pressing the main EasyGo button, which is certainly not normal. Switch off the Yomper and EasyGo and contact your dealer immediately.</p>

Failure	Solution
Yomper accelerates for no reason	<p>If you are in a highly disturbed environment (high-power medical imaging, etc.), close to an electromagnetic source, switch off the Yomper.</p> <p>The Yomper is EMC-certified, which means it is immunized for use in everyday environments.</p>
Loss of autonomy	<p>Autonomy will depend on several parameters:</p> <ul style="list-style-type: none"> <li>• The total weight of the loaded wheelchair.</li> <li>• The difference in altitude on your route.</li> <li>• Frequency of shutdowns and restarts.</li> <li>• Outside temperature (batteries don't like the cold, and can lose up to 40% of their capacity below 41°F/5°C).</li> <li>• Tire pressure.</li> </ul> <p>Storing your battery in the wrong conditions (see Storage p. 19) can considerably reduce its life and autonomy.</p> <p>If you experience a loss of autonomy under normal conditions of use, contact your dealer.</p> <p>Average battery life is 3 to 5 years, depending on use.</p>
The Yomper detaches from the support	<p>Once in place, check that the system is locked in place by pulling on the Yomper.</p> <p>Visually verify that the locking hooks retract and snap back into place when the Yomper release lever is pressed.</p>

Failure	Solution
Support detaches from wheelchair or makes noise	Check all components for tightness. Contact your dealer.
While going over an obstacle with only 2-wheels, and the Yomper wheel moves ahead of the wheelchair wheels, preventing the user from returning to a seated position.	The Yomper stop is not installed correctly. Contact your dealer immediately.
The bottom of the Yomper rubs when going over an obstacle	The bracket is a little too low. Contact your dealer to raise the Yomper support to between 7½" and 8¼" (19 and 21 cm).

## 7. Warranty

### Included in the warranty

Included in the warranty	Warranty period (from the date of purchase)
Chassis, motor, electronics and accessories, battery	2 years

The expected lifetime of the complete product (excluding consumables) is 5 years from the date of purchase.

In order to benefit from the warranty on new products, it is imperative to keep the purchase invoice for the product. This invoice is required if you wish to contact Amylior technical support during the warranty period, otherwise all repair costs will be invoiced.

Amylior will repair or replace, free of charge to the warranty holder, the parts covered by the warranty after verification by an authorized Amylior representative and **if the latter has found defects in materials and/or workmanship**. Return shipping costs are the responsibility of the purchaser.

For repairs beyond the warranty period, the cost of materials and transport will be charged to the purchaser.

## Warranty exclusions

Warranty exclusions extend to the following items:

- Wear and tear parts such as tires, bearings, wheels, straps, etc.
- Components damaged by negligence, accident, misuse, overloading, commercial use, malfunction, improper maintenance or improper storage
- Circumstances beyond Amylior's control
- Modifications and/or repairs carried out without the written consent of Amylior
- Defects due to natural wear and tear, incorrect operation, in particular defects due to non-compliance with these operating instructions, accidents, damage caused by negligence, the effects of fire and water, force majeure and other causes outside Amylior's sphere of influence.
- Maintenance work resulting from daily use (e.g., tire changes).
- Inspection of the unit without finding any faults.
- Other components and products used with the Yomper (e.g., manual wheelchair)

If the serial number on the chassis is not original or has been altered, or does not match the number on the warranty or if the serial number on the warranty card is changed, the warranty will be voided.

The warranty is transferable from person to person.

As a distributor, our responsibility is to repair or replace damaged parts.

To the extent permitted by law, this warranty statement replaces all other warranties, whether written, oral, express, or implied, including warranties of merchantability or fitness for a particular purpose. In the event of a conflict between them, this warranty statement shall prevail.

## Withdrawal

Amylior disclaims all liability for any personal injury or property damage resulting from incorrect or unsafe use of this power system for manual wheelchairs.

If you have any questions about the Yomper and its safe operation, please do not hesitate to contact your provider.

## 8. Technical data

Range:	<b>14.3 to 21.7 mph (23 to 35 km)</b> depending on the battery
Maximum speed (flat surface):	<b>6.2 mph (10 km/h)</b>
Maximum speed (inclined plane 3%):	<b>2.5 mph (4 km/h)</b>
Motor power:	<b>250 W</b>
Motor voltage:	<b>24 V</b>
Temperature operation:	<b>77°F to 122°F (-25°C à +50°C)</b>
Theoretical consumption in a straight line:	<b>9.5 Wh/mile (5,9 Wh/km)</b>
Theoretical consumption maneuvering:	<b>36.3 Wh/mile (22,5 Wh/km)</b>
Total weight:	<b>12.8 lb (5,8 kg)</b> (160 wh battery), <b>13.7 lb (6,2 kg)</b> (240 wh battery)

**Note :** These values were measured with a passenger weighing 100 kg (220 lb). Range and speed may vary according to operating conditions.

### Unit

Overall length:	<b>15.4 in (391 mm)</b>
Overall width:	<b>6.5 in (164 mm)</b>
Overall height:	<b>13.2 in (335 mm)</b>
Weight:	<b>10.8 lb (4.9 kg)</b>
Wheel diameter:	<b>8 in (203 mm)</b>

## Battery

Battery Type:	<b>Lithium-ion</b>
Rated voltage:	<b>24 V</b>
Minimum voltage (discharged):	<b>19 V</b>
Maximum voltage (loaded):	<b>29,4 V</b>
Overall dimensions:	length <b>4 in (101 mm)</b> X width <b>4 in (101 mm)</b> X height <b>2.75 in (70 mm)</b>
Weight:	<b>2 lb (0,9 kg)</b> for 160 wh battery, <b>2,75 lb (1,25 kg)</b> for 240 wh battery
User weight:	<b>330 lb (150 kg) maximum</b>

## Compatibility









### Wheelchairs with fixed rigid frame

Manual wheelchair wheel diameter:	<b>24, 25, 26 in. (610, 635, 660 mm)</b>
Bar diameter camber:	<b>0.6 to 1.6 in (15 to 40 mm)</b>
Bar diameter under seat:	<b>0.9 to 2.3 in (22 to 59 mm)</b>

### Wheelchairs with folding frames

Wheel diameter of manual wheelchair:	<b>22, 24, 25, 26 in (559, 610, 635, 660 mm)</b>
Seat width:	<b>12.6 in (32 cm) to 21.7 in (55 cm) wide</b>

## List of symbols and descriptions :

Symbol	Symbol Title	Symbol Description
	Catalog number	Indicates the manufacturer's catalog reference in order to identify formally the medical device.
	Date of manufacture	Indicates the date on which the medical device was manufactured.
	Lot code	Indicates the manufacturer's batch code in order to formally identify the batch.
	Serial number	Indicates the manufacturer's serial number in order to formally identify a specific medical device.
	Maker	Indicates the manufacturer of the MD, as defined in EU regulation (2017/745).
	Temperature limit	Indicates the minimum and maximum temperatures to which the medical device can be safely exposed.
	Consult the instructions for use	Indicates to the user that it is necessary to consult the instructions for use.
	Electronic waste	Indicates that the product cannot be disposed of in regular waste and must be recycled in accordance with the legislation of the respective country.

## 9. Maintenance log

Date	Maintenance / Repair	Carried out by

Date	Maintenance / Repair	Carried out by



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This medical device is a regulated healthcare product and, in accordance with these regulations, bears the CE mark.

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