



**SMART  
LIFTER**

**Power Pack**

User Manual



# Safety Guidelines

NOTE: This manual is compiled from the latest specifications and product information available at the time of publication. We reserve the right to make changes as they become necessary. Any changes to our products may cause slight variations between the illustrations and explanations in this manual. The latest/current version of this manual is available on our website.

If you require an electronic version or translated version of the manual please scan the QR code or enter the URL (<https://www.mobilityinmotion.com/Autochair-User-Manuals>) and select the appropriate manual.

- Français -** Veuillez scanner le QR Code ou entrer l'URL de la version Française du manuel d'utilisation
- Deutsch -** Bitte scannen Sie den QR-Code oder geben Sie die URL für die deutsche Version des Benutzerhandbuchs ein
- Español -** Escanee el código QR o introduzca la URL de la versión en Español del manual del usuario
- Italiano -** Scansiona il codice QR o inserisci l'URL per la versione Italiana del manuale utente
- Polski -** Zeskanuj kod QR lub wprowadź adres URL Polskiej wersji instrukcji obsługi
- Čeština -** Naskenujte prosím QR kód nebo zadejte URL pro Českou verzi uživatelské příručky
- Nederlands -** Scan de QR-code of voer de URL in voor de Nederlandse versie van de gebruikershandleiding
- תירבע -** הסרגה רובע רתאה תבותב תא ווא QR-ה דוק תא קורס שמתשמל לך ירדמה לש תירבעה



**WARNING!** The Power Pack is only intended to be installed by an accredited dealer or installer. Do not attempt to install the Power Pack yourself.

The following symbols are used to identify warnings and important details throughout this manual. Please read them and ensure you are aware of their meaning.



**WARNING!** These symbols denote a potentially dangerous situation. Failure to carry out the specified procedures may result in injury or damage to the device.



**MANDATORY!** The indicated actions must be carried out as specified. Failure to perform the specified actions may result in injury or damage to the device.



**PROHIBITED!** Do not carry out the indicated actions. They should not be performed at any time, under any circumstances. Carrying out a prohibited action may result in injury or damage to the device.



Copyright © 2024  
Autochair Ltd.

Manufactured By:  
Autochair Ltd.  
Mobility in Motion HQ  
Unit 13  
Salcombe Road  
Alfreton  
DE55 7RG



EU Authorised Representative:  
Product IP AR Services  
Galvanistraat 1  
6716 AE Ede  
The Netherlands



# Contents

<b>1. INTRODUCTION.....</b>	<b>7</b>
<b>2. SAFETY .....</b>	<b>8-14</b>
2.1 PRODUCT SAFETY SYMBOLS.....	8
2.2 SAFE HANDLING PROCEDURES .....	9-12
2.3 MAGNETIC INTERFERENCE AND MEDICAL DEVICES.....	12
2.4 HANDLING A DAMAGED POWER PACK SAFELY .....	13
2.5 POWER PACK SAFE DISPOSAL .....	14
<b>3. TECHNICAL .....</b>	<b>15</b>
3.1 PRODUCT SPECIFICATIONS .....	15
3.2 CONTENTS.....	15
<b>4. INSTALLATION &amp; REMOVAL OF THE POWER PACK.....</b>	<b>16</b>
<b>5. WRIST STRAP ATTACHMENT &amp; REMOVAL.....</b>	<b>17</b>
<b>6. POWER PACK CHARGING PROCEDURE .....</b>	<b>18-19</b>



# 1. Introduction

## **Congratulations on the purchase of your new Smart Lifter Power Pack from Autochair Ltd**

Please read these instructions carefully before operating this product.

These instructions have been provided for your benefit. Your understanding of them is essential for the safe operation of your new Power Pack.

Autochair is not liable for damage to property or personal injury resulting from the unsafe use of a Power Pack. Autochair is also not liable for any property damage or personal injury arising from the failure of any person and/or user to follow the instructions and recommendations in this manual or any other Power Pack-related literature issued by Autochair, including information provided on the Power Pack itself.

### **THIRD-PARTY AND PRIVATE PURCHASES**

If you purchased your product from a seller not affiliated with Autochair or from a previous owner and require information about the safe use and maintenance of your Power Pack, please visit our website at [www.autochair.co.uk](http://www.autochair.co.uk) or contact your accredited Autochair Dealer.

### **END-USER AGREEMENT**

By accepting delivery of the Power Pack, you agree that you will:

- Not modify, change, or alter the Power Pack.
- Not remove, disable, or render inoperable any guards, shields, or other safety features of this product.
- Not fail, refuse, or neglect to install any retrofit kits provided by Autochair from time to time to enhance or preserve the safe use of this product.
- Only use the supplied charging adapter when charging the Power Pack.

### **DELIVERY AND SHIPPING**

Before using or operating your Power Pack, ensure your delivery is complete. Some components may be individually packaged. If your delivery is incomplete or if any damage has occurred to the Power Pack or its packaging during transit, please contact your accredited Autochair Dealer.

Upon delivery of your new Power Pack, your accredited Autochair Dealer should provide a demonstration on the correct use of the product.

### **FEEDBACK AND SUGGESTIONS**

We welcome your questions, comments, and suggestions regarding this manual. We would also love to hear about the safety and reliability of your new Power Pack, as well as the service you received from your accredited Autochair Dealer.







Please notify us of any change of address so we can keep you informed about important safety information, new products, and new options that may enhance your experience with your Power Pack.

Feel free to contact us at the address listed on page 3 of this manual.

## 2. Safety

### 2.1 - Product Safety Symbols

Please review the symbols below carefully to ensure you fully understand their meanings. These symbols are used on the Power Pack and throughout this manual to indicate warnings, as well as mandatory or prohibited actions.

<b>Li-ion</b>	<b>Lithium-ion</b> - The Power Pack contains a Lithium-ion (Li-ion) cell.
	<b>Corrosive</b> - Represents materials that can destroy or irreversibly damage living tissues (such as skin and eyes) or corrode metals upon contact. These substances may be strong acids, bases, or other highly reactive chemicals.
	<b>Flammable</b> - Indicates that a substance can easily catch fire when exposed to heat, sparks, or flames. It is used on materials that ignite quickly and burn rapidly under normal conditions.
	<b>Toxic</b> - Indicates that a substance is poisonous and can cause serious harm or death if inhaled, swallowed, or absorbed through the skin.
	<b>Environmental</b> - Warns that a substance is dangerous to the environment, particularly to aquatic life in water bodies such as rivers, lakes, and oceans.
	<b>Electrical</b> - Used to warn people of the dangers of electric shock, electrocution, or burns from electrical equipment or exposed wiring.
	<b>Disposal and recycling</b> - Contact your local designated recycling facility that accepts lithium-ion batteries for guidance on safe disposal.







## 2. Safety

### 2.2 - Safe Handling Procedures

The following procedures relate to the safe handling of the Power Pack. Please review them carefully to ensure you fully understand their meanings.

✓ **DO:**



**INSPECT THE POWER PACK BEFORE USE** – Check for swelling, leaks, or damage before charging or using the battery.

	<b>WARNING!</b> <b>DO NOT</b> use or charge the Power Pack if you notice swelling, leaking, smoking, or unusual odours.
	<b>WARNING!</b> A damaged Power Pack can expose you to toxic and corrosive chemicals. Damage can also increase the risk of fire and environmental harm. 
	<b>MANDATORY!</b> If you notice swelling, leaking, smoking, or unusual odours, follow the guidelines in Section 2.4 and 2.5 of this manual for instructions of how to safely dispose of your Power Pack.

**INSPECT THE WRIST STRAP BEFORE USE** – Inspect the wrist strap before every use for fraying or signs of wear.




	<b>WARNING!</b> A frayed or worn wrist strap can snap, which may result in the Power Pack being dropped and damaged. <b>DO NOT</b> use a damaged wrist strap.
---	---

**WEAR THE WRIST STRAP WHEN TRANSPORTING THE POWER PACK** – Always wear the wrist strap to avoid dropping the Power Pack.





	<b>WARNING!</b> Not wearing the supplied wrist strap when transporting the Power Pack may result in the Power Pack being dropped and damaged.
	<b>MANDATORY!</b> Always wear the supplied wrist strap whenever possible. Section 5 outlines how to attach and wear the wrist strap correctly.

## 2. Safety







**ONLY USE THE SUPPLIED CHARGER** – Always use the manufacturer-approved charger to prevent overcharging or overheating.

	<p><b>WARNING!</b> Using a third-party charger may cause the Power Pack to overcharge or overheat. Overheating can increase the risk of fire.</p> 
	<p><b>MANDATORY!</b> Only use the manufacturer-approved charger.</p>

**CHARGE IN A WELL-VENTILATED AREA** – Avoid charging the Power Pack in confined spaces, such as drawers, under pillows, or in direct sunlight.

	<p><b>WARNING!</b> Charging the Power Pack in confined spaces or direct sunlight may cause overheating. Overheating can increase the risk of fire.</p> 
	<p><b>MANDATORY!</b> If the Power Pack is hot, place it in a safe, cool, and non-flammable area to cool down.</p>
	<p><b>MANDATORY!</b> Charge the Power Pack in a well-ventilated area, away from direct sunlight.</p>





**HANDLE WITH CARE** – Avoid dropping, crushing, or puncturing the Power Pack.

	<p><b>WARNING!</b> A damaged Power Pack can expose you to toxic and corrosive chemicals. Damage can also increase the risk of fire and environmental harm.</p>    
	<p><b>MANDATORY!</b> If the Power Pack is dropped or crushed, inspect the Power Pack immediately. If you notice swelling, leaking, smoking, or unusual odours, follow the guidelines in Sections 2.4 and 2.5 of this manual for instructions on how to safely dispose of your Power Pack.</p>





## 2. Safety

### **X DO NOT:**






**OVERCHARGE OR OVERDISCHARGE** – This can cause overheating and swelling. Overheating can increase the risk of fire.

	<p><b>WARNING!</b> Overcharging or overdischarging may cause overheating. Overheating can increase the risk of fire.</p> 
	<p><b>MANDATORY!</b> If the Power Pack is hot, place it in a safe, cool, and non-flammable area to cool down.</p>
	<p><b>MANDATORY!</b> See Section 6 for guidance on how to correctly charge the Power Pack.</p>

**EXPOSE TO HEAT** – Do not place the battery near radiators, stoves, direct sunlight, or inside a hot car.




	<p><b>WARNING!</b> Exposure to elevated temperatures can cause the Power Pack to overheat or swell, increasing the risk of fire.</p> 
	<p><b>MANDATORY!</b> If the Power Pack is hot, place it in a safe, cool, and non-flammable area to cool down.</p>
	<p><b>MANDATORY!</b> The Power Pack <b>MUST NOT</b> be left in direct sunlight or in temperatures exceeding 60°C (140°F). To ensure optimal performance, remove the Power Pack from the vehicle when stationary if it is exposed to direct sunlight or operating in unsuitable temperatures.</p>

**EXPOSE TO WATER OR MOISTURE – DO NOT** submerge in water.


	<p><b>WARNING!</b> <b>DO NOT</b> immerse in water, as this may cause the Power Pack to short-circuit. Short-circuiting can increase the risk of fire and electrical shock. Exposing to water can also cause environmental damage.</p> <div data-bbox="703 1250 1009 1344">    </div>
	<p><b>MANDATORY!</b> Keep the Power Pack dry at all times.</p>






## 2. Safety


**MIX WITH METAL OBJECTS** – Avoid carrying or storing the Power Pack alongside metallic items such as keys or coins.


	<p><b>WARNING!</b> <b>DO NOT</b> carry or store the Power Pack alongside metallic items, as this may cause the Power Pack to short circuit. Short-circuiting can increase the risk of fire and electrical shock.</p> <div data-bbox="812 302 1012 386"></div>
---	--

**MODIFY OR TAMPER** – Never open the Power Pack casing or modify it in any way, as this can be extremely dangerous.

	<p><b>WARNING!</b> <b>DO NOT</b> use or charge the Power Pack if you notice swelling, leaking, smoking, or unusual odours.</p>
---	--

	<p><b>WARNING!</b> A damaged Power Pack can expose you to toxic and corrosive chemicals. Damage can also increase the risk of fire and environmental harm.</p> <div data-bbox="591 654 1006 743"></div>
---	--


	<p><b>MANDATORY!</b> <b>NEVER</b> open the Power Pack casing. Repairs and servicing should <b>ONLY</b> be carried out by the manufacturer.</p>
---	--

	<p><b>MANDATORY!</b> If the Power Pack will be unused for an extended period, charge it every three months to maintain battery functionality.</p>
---	---

### 2.3 - Magnetic interference and medical devices

The Smart Lifter Power Pack contains a magnet to allow it to connect to the blade bracket.

Under certain conditions, magnets and electromagnetic fields might interfere with active implanted medical devices. For example, implanted pacemakers may contain sensors that respond to magnets when used in close contact. To avoid any potential interference with these types of medical devices, keep the Power Pack a safe distance away from your medical device (more than 154mm/6 Inches apart). Consult with your physician and your device manufacturer for specific guidelines.

	<p><b>WARNING!</b> If you suspect that the Power Pack is interfering with your medical device, consult your physician and your medical-device manufacturer.</p>
---	---

## 2. Safety

### 2.4 - Handling a Damaged Power Pack Safely

The guidance stated below is safety critical. Please read and ensure that you fully understand the information provided, before operating your Power Pack.

#### SAFETY



- **MOVE AWAY IMMEDIATELY** – If you notice a damaged or leaking battery, leave the area immediately and ensure others do the same. Leaking batteries can release hazardous chemicals or gases.
- **AVOID DIRECT CONTACT – DO NOT** touch the damaged battery unless absolutely necessary.
- **DO NOT ATTEMPT TO CONTAIN THE LEAK** – Without the proper safety equipment, sealing or containing the leak could increase risk. Leave it undisturbed and seek professional help.

#### DISPOSAL

- **CONTACT A PROFESSIONAL** – The safest way to dispose of a damaged Power Pack is to call a qualified waste disposal or recycling service. Many locations have designated hazardous waste facilities for handling damaged batteries.
- **FOLLOW LOCAL REGULATIONS** – Always check local disposal guidelines for lithium batteries, as improper disposal can pose environmental and safety risks.

#### HANDLING

- **ONLY MOVE THE BATTERY IF ABSOLUTELY NECESSARY** – If the battery poses an immediate danger (e.g., near flammable materials), carefully move it to a non-flammable surface in a well-ventilated area, away from heat sources, flames, or sparks.
- **USE EXTREME CAUTION** – If moving the battery is unavoidable, wear gloves and handle it using a non-conductive, non-absorbent tool or material to prevent direct exposure.

	<p><b>WARNING!</b> A damaged Power Pack can expose you to toxic and corrosive chemicals. Damage can also increase the risk of fire and environmental harm.</p> <div data-bbox="591 873 1009 966"></div>
---	---

#### IF THE POWER PACK IS SMOKING OR CATCHING FIRE

If the Power Pack starts to smoke or catches fire, please refer to the following instructions:

#### SAFETY

- **EVACUATE IMMEDIATELY** – Move away from the fire and ensure everyone nearby does the same. **DO NOT** attempt to retrieve belongings—lithium battery fires can spread rapidly and release toxic fumes.
- **CALL EMERGENCY SERVICES** – Dial **999 (UK) 911 (USA) 000 (AUS)**. Clearly state that it is a lithium battery fire.
- **PROVIDE CLEAR INFORMATION TO EMERGENCY SERVICES** – Inform responders that the fire involves a lithium battery, as this requires specialized handling.
- **STAY CLEAR AND WAIT FOR PROFESSIONALS** – Even if the fire appears to be out, lithium batteries can reignite. Maintain a safe distance and follow emergency responders' instructions.

#### FIRE RESPONSE - IF ABSOLUTELY NECESSARY

- **DO NOT USE WATER** – Water can worsen a lithium battery fire and should never be used.
- **USE AN APPROPRIATE FIRE EXTINGUISHER (ONLY IF SAFE TO DO SO)** – If a **Class D (metal fire)** extinguisher or a dry powder extinguisher is available, use it from a safe distance. Standard household extinguishers are **NOT** suitable unless specifically rated for lithium fires.
- **CONTAIN THE FIRE ONLY IF SAFE** – If the fire is small and manageable, you may attempt to smother it with a fire blanket or cover it with a non-flammable metal container. Do not attempt this if the fire is spreading or producing heavy smoke.



## 2. Safety

### 2.5 - Power Pack Safe Disposal

The following guidance outlines the correct procedures for disposing of the Power Pack safely.

#### DO NOT DISPOSE OF THE POWER PACK IN HOUSEHOLD WASTE

The Power Pack contains a lithium-ion cell. Improper disposal of lithium-ion batteries can pose a significant risk of fire. They should **NEVER** be discarded with general household waste or recycling bins, as they could ignite, especially if crushed or exposed to moisture. Improper disposal can also lead to environmental damage - the chemical within the lithium-ion cell is toxic and corrosive.

	<p><b>WARNING!</b> Improper disposal can lead to exposure of toxic and corrosive chemicals. Damage can also increase the risk of fire and environmental harm.</p> <div data-bbox="592 467 1009 565"></div>
---	--

#### UTILISE DESIGNATED RECYCLING FACILITIES

Please refer to the instructions below for correct procedure when disposing of a Power Pack:

##### UK & EU


Please dispose of this battery pack at an authorized recycling facility. Local recycling centers can be located through municipal waste services or by visiting **[www.recycle-more.co.uk](http://www.recycle-more.co.uk)** (UK) or **[www.recycle.eu](http://www.recycle.eu)** (EU).

##### AUS

Dispose of the battery pack at an approved recycling drop-off location. To find your nearest facility, visit **[www.recyclingnearyou.com.au](http://www.recyclingnearyou.com.au)**.

##### USA

This battery pack must be recycled through certified programs. To locate collection points, visit **[www.call2recycle.org](http://www.call2recycle.org)** or check with your local waste management services.

	<p><b>MANDATORY!</b> Always dispose of lithium-ion batteries at recycling facilities that accept them.</p>
--	--

## 2. Technical

### 2.1 - Product Specifications

#### Power Pack

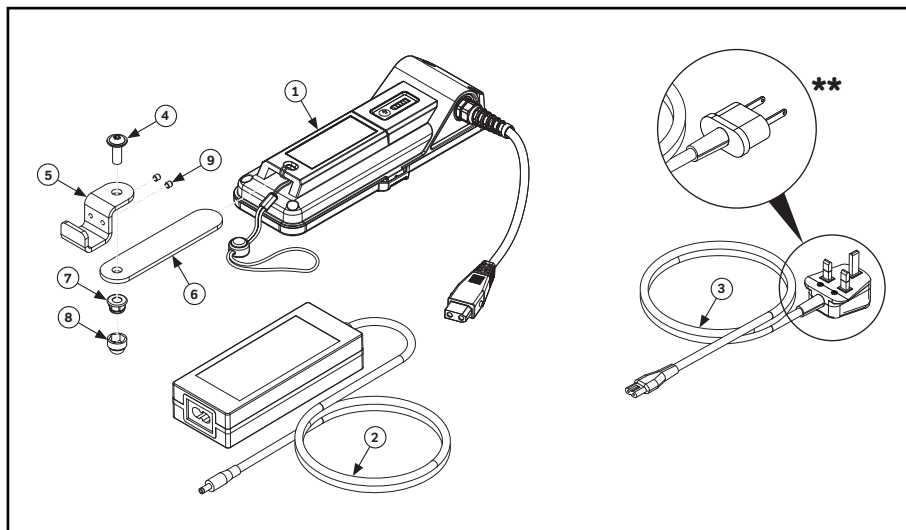
<b>Model</b>	Smart Lifter Power Pack
<b>Rating</b>	14.4v DC/115.5Wh
<b>Weight</b>	1.5Kg
<b>Chemistry</b>	Lithium-ion

#### Battery Charger

<b>Model</b>	AP-PN120CH01680060
<b>Input</b>	100-240V – 50/60Hz 2.5A
<b>Output</b>	16.8V = 6.0A 100.8W

### 2.2 - Contents

#### ILLUSTRATED PARTS



\*\* The charger plug illustration is for reference only; the actual plug supplied will match the standard for the country of delivery.

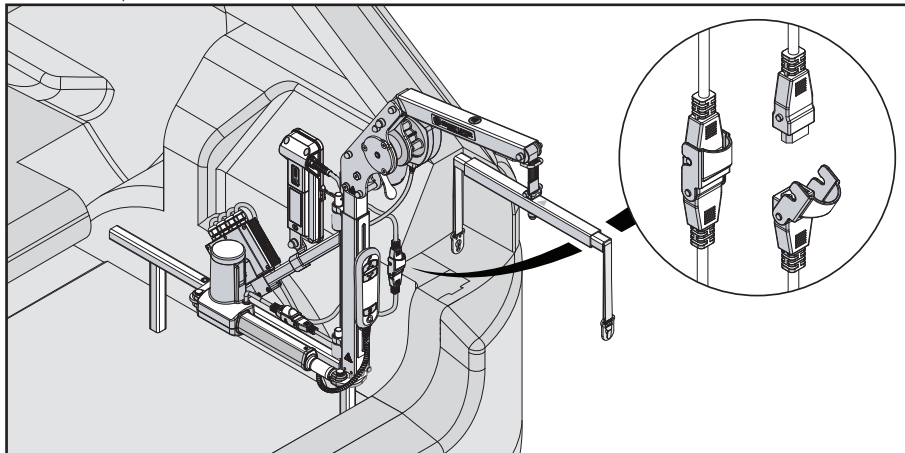
#### ILLUSTRATED PARTS LIST

Item No.	Description	Qty.
1	Smart Lifter Power Pack with Wrist Strap	1
2	M8x20 Flanged Button Head Screw - BZP	1
3	Battery Bracket - Clamp	1
4	Battery Bracket - Blade	1
5	M8 Flanged Nyloc Nut	1
6	M8 Nut Cap - Black	1
7	M4x4 Grub Screw Cup Point - BZP	2
8	Plug and Lead	1
9	Charging Adapter	1

## 4. Installation & Removal of the Power Pack

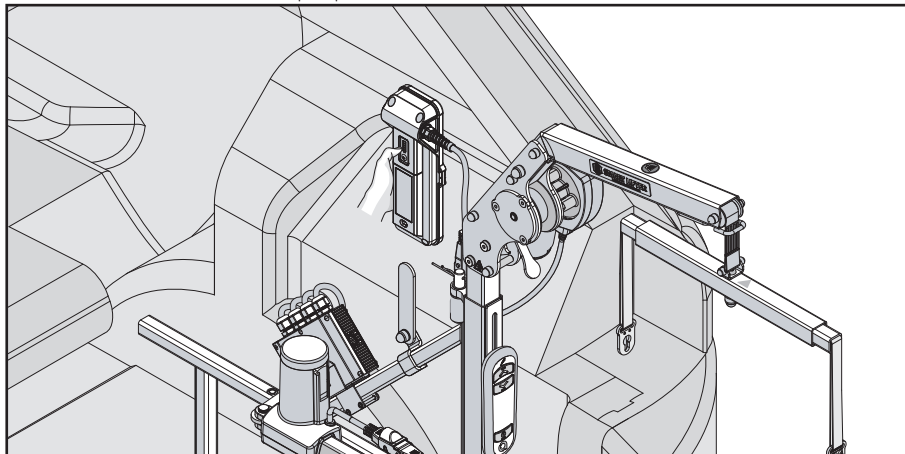
### DISCONNECTING THE POWER PACK

Identify the wiring that connects the Smart Lifter Power Pack to the control box. The connector is light blue. Carefully release the cover latch and disconnect the connector.



### REMOVING THE POWER PACK

Verify that the Power Pack wiring is fully disconnected. Lift the Power Pack upward to remove it from the bracket. Secure the wrist strap in place.



### REATTACHING THE POWER PACK

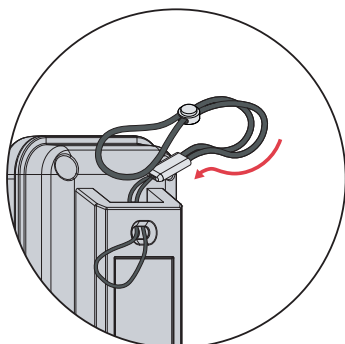
Reattach the Power Pack by following the previous steps in reverse. Ensure that the Power Pack is fully inserted onto the bracket and that the wiring is properly reconnected.



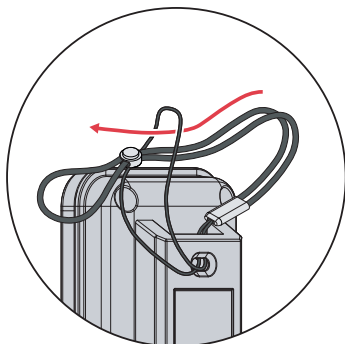
**MANDATORY!** Ensure that the Smart Lifter Power Pack is fully charged before first use. See section 6 for further information on the correct charging procedure.



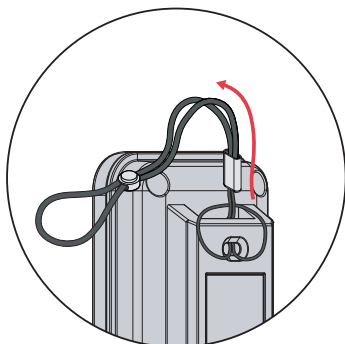
## 5. Wrist Strap Attachment & Removal



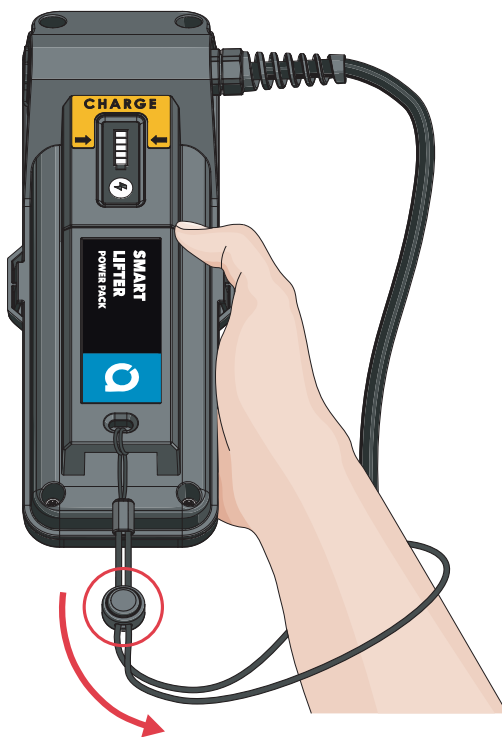
1. Insert the thin loop of the wrist strap through the slot on the back of the Power Pack.



2. Once the loop is fully threaded, expand it and pass the strap through the opening.



3. Pull the remaining strap handle upward to securely fasten the wrist strap to the Power Pack.



4. Wear the wrist strap and adjust the toggle to tighten it. Hold the Power Pack securely at all times and **DO NOT** release it.



### **WARNING!**

A frayed or worn wrist strap can snap, which may result in the Power Pack being dropped and damaged. **DO NOT** use a damaged wrist strap.



### **WARNING!**

Not wearing the supplied wrist strap when transporting the Power Pack may result in the Power Pack being dropped and damaged.

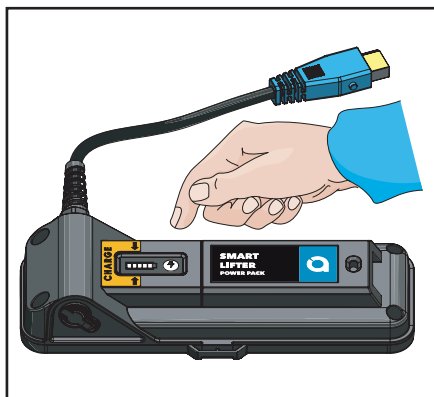


### **WARNING!**

Hold the Power Pack securely when transporting and **DO NOT** let go of it.

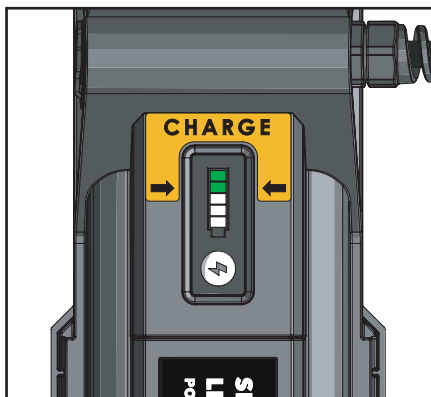
If your wrist strap is damaged, please contact your accredited Autochair Dealer for a replacement.

## 6. Power Pack Charging Procedure



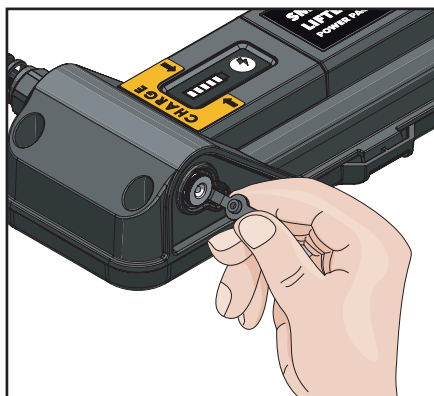
### 1. CHECK THE POWER PACK CHARGE

Before operating your Smart Lifter Hoist, verify the charge level of the Power Pack. Press the button with the lightning bolt symbol to display the charge status.



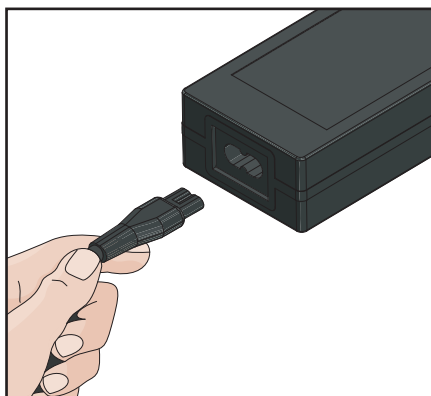
### 2. ASSESS THE LED GAUGE

If the LED gauge displays only two **GREEN** bars, remove the Power Pack from the vehicle and charge it immediately. **DO NOT** use the Power Pack when the charge level is at two bars.



### 3. PREPARE FOR CHARGING

Detach the charging port cover as shown. Only remove this cover when charging, and ensure it is securely reattached once charging is complete.



### 4. CONNECT THE CHARGER

Attach the charger plug to the charging adapter as illustrated. Ensure that the power connector is fully inserted into the inlet before plugging the charger into the mains supply.



#### **WARNING!**

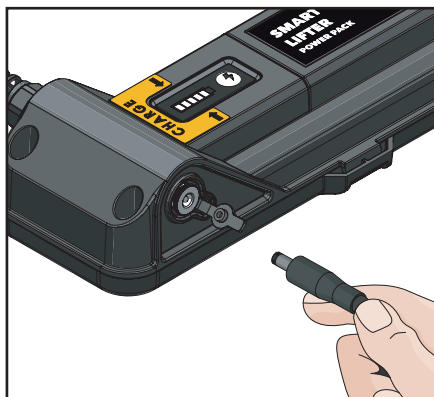
For your safety and to maintain optimal performance, **ONLY** use the supplied charger specifically designed for this Power Pack. The use of unauthorized or incompatible chargers may result in overcharging, overheating, or short-circuiting, potentially causing fire or irreversible damage to the battery. Failure to use the supplied charger will void both the warranty and any associated liability. Should you require a replacement charger, please contact your accredited Autochair dealer.



#### **WARNING!**

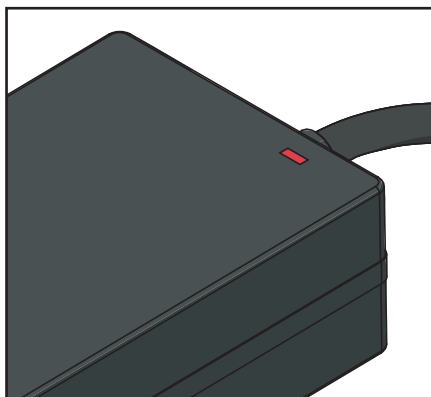
The Power Pack provides a minimum of one week of daily use on a single charge, under normal operating conditions. The recharge time is approximately two hours. **Regular overcharging may reduce the lifespan of the battery.**

## 6. Power Pack Charging Procedure



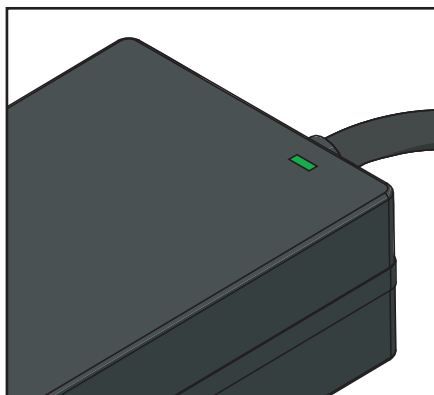
### 5. INSERT THE CHARGING PLUG

Insert the plug into the Power Pack's charging port. Ensure the Power Pack is placed in a well-ventilated area, away from direct sunlight.



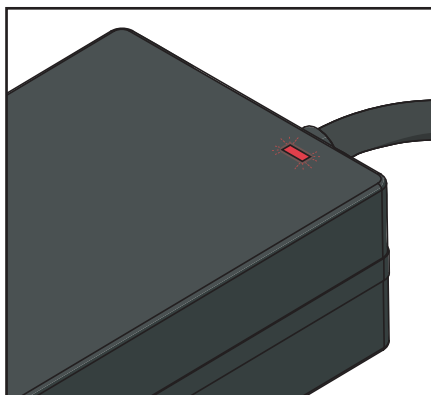
### 6. MONITOR CHARGING STATUS

A **RED** light on the charging adapter indicates that the Power Pack is charging.



### 7. MONITOR CHARGING STATUS

A **GREEN** light signifies that the Power Pack is fully charged. Once fully charged, disconnect the Power Pack and reinstall it in the vehicle.



### 8. ADDRESS CHARGING ERRORS

If the adapter displays a **FLASHING RED** light, this indicates a charging error. Turn off the charger at the mains and check that all connections are secure, and that all ports and inlets are free from dust or obstructions. If the issue persists, contact your accredited Autochair dealer for assistance.



#### WARNING!

Using a third-party charger may cause the Power Pack to overcharge or overheat. Overheating can increase the risk of fire.



#### WARNING!

Charging the Power Pack in confined spaces or direct sunlight may cause overheating. Overheating can increase the risk of fire.



Please fill out the following details for quick reference:

Dealer: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Post Code\Zip Code: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Purchase Date : \_\_\_\_\_

Serial Number: \_\_\_\_\_



**SMART**  
**LIFTER**

