# Compac Mk5.1 Lifter Range

# Operator Manual

**Read this manual before use**

For European models this manual supports the CE Declaration of Conformity

**Retain for future reference**

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# QUICK START GUIDE

Your *Compac* comes with a Quick Start Guide which is accessible by **scanning the QR code below** with the camera on a smart phone or a tablet that is connected to the internet.

This QR code can also be found on your machine and can be scanned from there.

Packline
Materials Handling
Quick Start Guide


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# INTRODUCTION

Scope of Manual

This manual has been compiled to assist in the operation and maintenance of the Packline Compac Lifter and in the case of European models, to meet regulations stated in the CE Declaration of Conformity

General Safety

The Packline Compac Lifter and Attachments should:

Be specified to your application - Considering strength, stability, and suitability, taking into account the Safe Working Load of the Lifter and Attachment which it will be fitted with - the load should not exceed the guidelines i.e., Max. load and load centre distance.

Be tested with the specified load/reel - Every effort has been made to ensure that the Lifter and Attachment are suitable to most applications. However, due to variations in reel construction and type of load, each application should be tested for suitability and safe operation.

Only be installed and maintained by competent authorised person(s).

Only be operated by trained authorised personnel.

Only be operated according to the instructions set out in this manual - Ensure all relevant personnel have access to this document. Packline Ltd will not accept responsibility for any consequences arising from misuse of the Compac Lifter or Attachments.

Only be maintained in accordance with the National regulations - The Packline Maintenance Schedule supports European LOLER 98 regulations.

NOT be operated unless any supplied covers, guards and fail-safe locks are correctly fitted.

NOT be modified without the written permission of Packline Ltd - The company will not be held responsible for any injuries to personnel or damage caused due to unauthorised modification of equipment.

Be disposed of in a responsible manner - If in doubt, contact Packline Ltd

Terms used in this manual:

| | |
|---|---|
| ***Warning!*** | This may result in injury if not observed. |
| ***Caution*** | This may cause damage to equipment if not observed. |
| ***Note*** | This highlights correct use of equipment or characteristics of the equipment. |

The contents of this publication may not be copied, either whole or in part, without the consent of Packline Ltd.

Due to our policy of continuous improvement, Packline reserves the right to make technical improvements and alterations without notice.

# OPERATIONAL SAFETY

***Do Not:***

- Attempt to lift loads that exceed the certified SAFE WORKING LOAD and load centre distance of the Lifter or the Attachment.
- Transport a load up or down an incline. It may occasionally be necessary to negotiate small slopes for the purposes of moving the truck between buildings etc. In such cases the gradient shall be no more than 2 % and the truck shall be unladen, and attachment lowered.
- Use the Lifter on any other surface than smooth, level factory floors without holes or obstacles.
- Lift objects other than those specified by Packline Ltd.
- Operate the Compac if it may endanger the user or other personnel.
- Drop loads onto the Attachment, this can bend or weaken the Attachment or the Lifter.
- Attempt to use the Lifter or Attachment if damaged or malfunctioning.
- Use in a potentially explosive atmosphere or areas deemed hazardous.
- Operate the Lifter when a person is loading/unloading the Attachment.
- Swing, ride or step on the Lifter or Attachment - the equipment is not for lifting personnel.
- Wear loose garments.
- Remove covers or service lifter unless trained.
- Allow the Attachment or load to hit or rest on an obstacle whilst lowering due to the risk of overturning the Lifter or dropping load.
- Lower attachment or item you are lifting into the legs of the Lifter - on occasion this may be possible depending on the item and Attachment you are using - bottom adjustable microswitches are available to counteract this if required - please ask Packline for further details
- Manoeuvre a Lifter with the Attachment in the uppermost position except for positioning purposes during loading and unloading operations.
- Allow the Lifter or Attachment to have direct contact with foodstuffs.
- Stand under an elevated load.
- Operate the Lifter or Attachment if the service period has expired.
- Leave equipment loaded for a period longer than required for the application. Packline do not advise longer than 15 minutes as this may damage or weaken the equipment. If leaving the unit, the load should be relieved.
- Use near electromagnetically sensitive equipment without testing if there are any adverse effects.
- Use a high-pressure jet washer for cleaning the machine.

# OPERATIONAL SAFETY (Cont'd)

***Always:***

- Follow HSE guidelines for safe lifting and handling.
- Ensure hands and feet are clear of all moving parts and care is taken not to trap them whilst loading, unloading, fitting an Attachment, or in adverse conditions.
- Transport loads at a safe speed and with a smooth motion.
- Use the Lifter and Attachments as specified.
- Check condition of Lifter and Attachment before and after use.
- Wear protective footwear when using the Lifter and Attachment and handling loads. Ensure long hair is tied back
- Load/unload from the Attachment properly and in accordance to specific Attachment guidelines.
- Locate Attachment according to specific Attachment guidelines.
- Observe Attachment and load combination and individual ratings.
- If using in a constricted area, operate from unobstructed side.
- Ensure adequate lighting levels/visibility for safe operation.
- Ensure covers are fitted to all battery terminals.
- Isolate power supply before removing any covers/servicing.
- Remove the battery and Attachment from the Lifter before performing any maintenance work.
- Observe the route of the Lifter – pathway should be clear, ensuring neither the load nor the Attachment contact any person or obstacle.
- Engage parking brake when loading/unloading or leaving Lifter unattended.
- Isolate equipment using the Emergency Stop and move away from equipment in hazardous circumstances.

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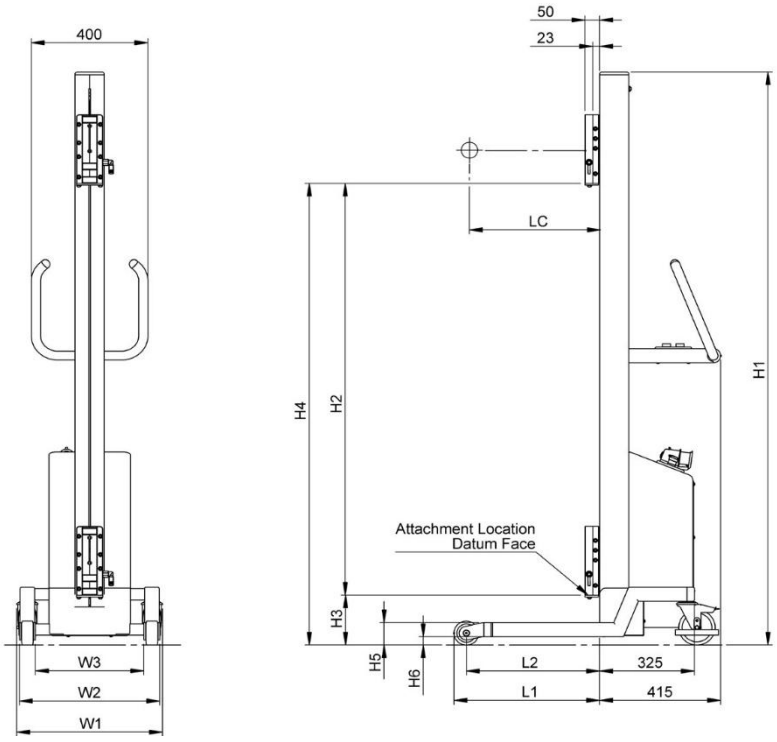
# COMPAC MK5.1 LIFTER – C150 STANDARD RANGE




Please follow guidelines regarding model selection.

| Model Description* | AC | LC | W1 | M |
|---|---|---|---|---|
| | Actual Capacity (kg) | At Load Centre (mm) | Base Width (mm) | Est. Mass** (kg) |
| C150/500/500/2000/50C-... | 150 | 500 | 500 | 85 est |
| C150/600/500/2000/50C-... | 150 | 500 | 500 | 86 est |
| C150/700/500/2000/50C-... | 150 | 500 | 500 | 87 est |

| Wheel Types*** | | H1 | H2 | H3 | H4 | H5 | H6 | W2 | W3 | L1 / L2 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Front DiaType | Rear DiaType | Overall Height (mm) | Lift Stroke (mm) | Att. Datum Height (mm) | Lift Height (mm) | Leg/ Wheel Height (mm) | Base Clearance (mm) | Ext. Leg Width (mm) | Int. Leg Width (mm) | Leg Length / Pivot Length (mm) | | | | |
| | | | | | | | | | | 350L | 500L | 600L | 700L | |
| 50C | 125BC | 2041 | 1487 | 171 | 1658 | 85 | 35 | 487 | 367 | 363 | 513 | 613 | 713 | **L1** |
| | | | | | | | | | | 298 | 448 | 548 | 648 | **L2** |
| 100C | 125BC | 2097 | 1487 | 222 | 1709 | 136 | 86 | 500 | 354 | 399 | 519 | 619 | 719 | **L1** |
| | | | | | | | | | | 300 | 450 | 550 | 650 | **L2** |
| 85P | 125BC | 2036 | 1487 | 166 | 1653 | 85 | 30 | 482 | 372 | 350 | 500 | 600 | 700 | **L1** |
| | | | | | | | | | | 307 | 457 | 557 | 657 | **L2** |
| 85R | 125BC | 2036 | 1487 | 166 | 1653 | 85 | 30 | 497 | 357 | 455 | 605 | 705 | 805 | **L1** |
| | | | | | | | | | | 358 | 508 | 608 | 708 | **L2** |

* - Model Description will have voltage on the end i.e. Compac C150/500/500/2000/50C-230V
** - Mass includes Battery (15kg)
*** - C = Castor BC = Braked Castor P = Fixed Direction Pallet Wheel R/RPW= Rocking Pallet Wheel, All wheel's PU Rubber
C150 standard - interchangeable carriage and fixed control.

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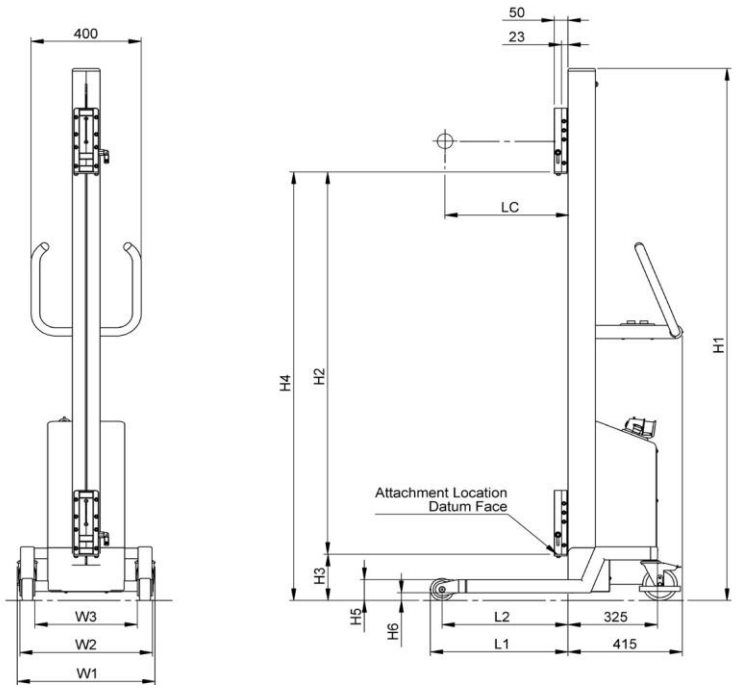
# COMPAC MK5.1 LIFTER – C300 STANDARD RANGE




Please follow guidelines regarding model selection.

| Model Description* | AC | LC | W1 | M |
|---|---|---|---|---|
| | Actual Capacity (kg) | At Load Centre (mm) | Base Width (mm) | Est. Mass** (kg) |
| C300/500/500/2000/85P-... | 300 | 450 | 500 | 105 est |
| C300/600/500/2000/85P-... | 300 | 550 | 500 | 106 est |
| C300/700/500/2000/85P-... | 300 | 550 | 500 | 107 est |

* -

| Wheel Types*** | | H1 | H2 | H3 | H4 | H5 | H6 | W2 | W3 | L1/L2 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Front Dia Type | Rear Dia Type | Overall Height (mm) | Lift Stroke (mm) | Att. Datum Height (mm) | Lift Height (mm) | Leg/ Wheel Height (mm) | Base Clearance (mm) | Ext. Leg Width (mm) | Int. Leg Width (mm) | Leg Length / Pivot Length (mm) | | | | |
| | | | | | | | | | | 350L | 500L | 600L | 700L | |
| 50C | 125BC | 2041 | 1406 | 235 | 1641 | 85 | 35 | 487 | 367 | 363 | 513 | 613 | 713 | **L1** |
| | | | | | | | | | | 298 | 448 | 548 | 648 | **L2** |
| 100C | 125BC | 2097 | 1406 | 286 | 1692 | 136 | 86 | 500 | 354 | 399 | 519 | 619 | 719 | **L1** |
| | | | | | | | | | | 300 | 450 | 550 | 650 | **L2** |
| 85P | 125BC | 2036 | 1406 | 230 | 1636 | 85 | 30 | 482 | 372 | 350 | 500 | 600 | 700 | **L1** |
| | | | | | | | | | | 307 | 457 | 557 | 657 | **L2** |
| 85R | 125BC | 2036 | 1406 | 230 | 1636 | 85 | 30 | 497 | 357 | 455 | 605 | 705 | 805 | **L1** |
| | | | | | | | | | | 358 | 508 | 608 | 708 | **L2** |

Model Description will have voltage on the end i.e. Compac C300/500/500/2000/50C-230V
** - Mass includes Battery (15kg)
*** - C = Castor BC = Braked Castor P = Fixed Direction Pallet Wheel R/RPW = Rocking Pallet Wheel, All wheel's PU Rubber

C300 standard - interchangeable carriage, and fixed control.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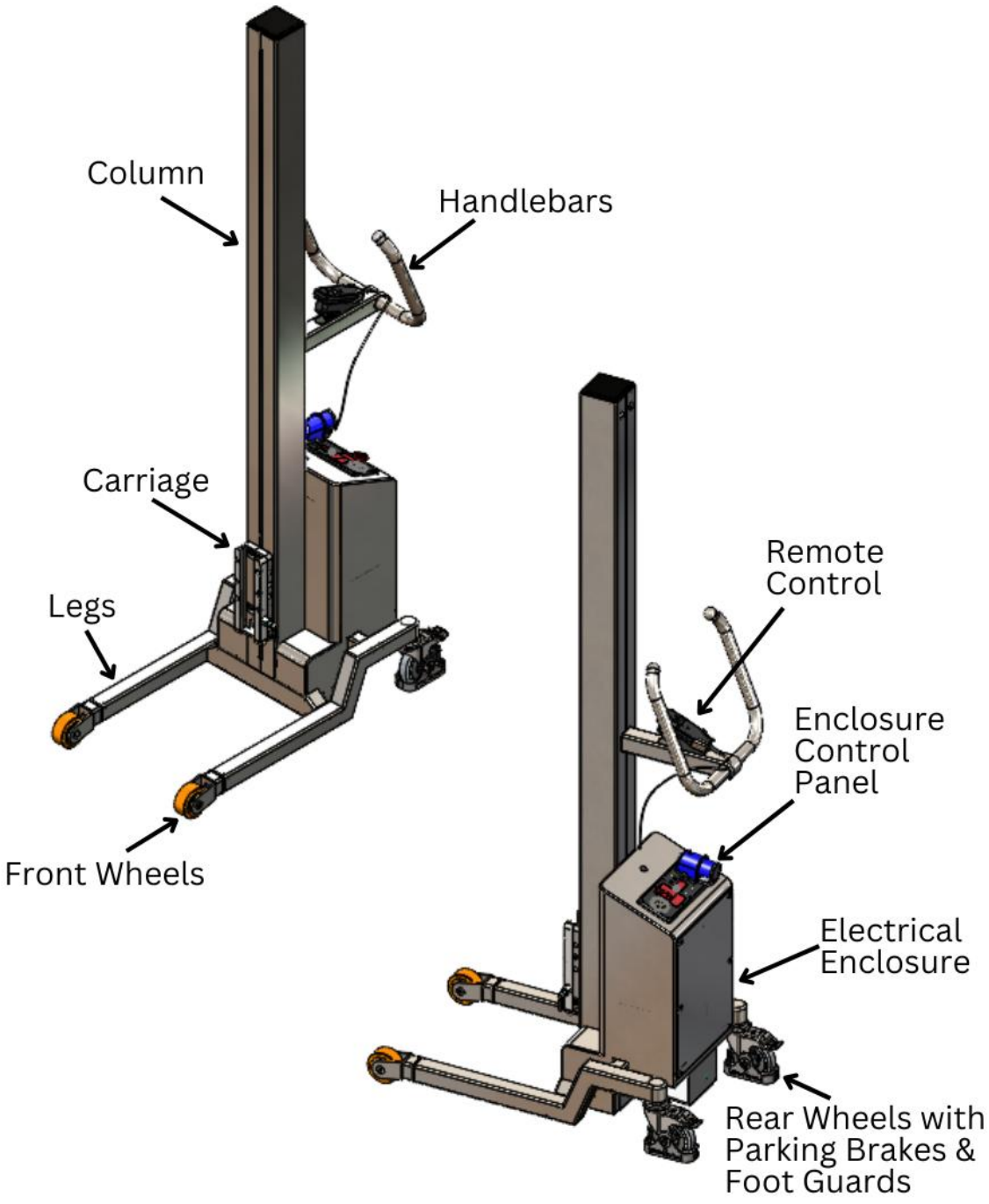
# TECHNICAL SPECIFICATION

| | |
|---|---|
| **Construction** | Main chassis and components are constructed from bead blast Stainless Steel 303/304, with some internal parts or auxiliary parts made from Aluminium 6082/T6, Phosphor Bronze, Brass, Delrin/Acetal, Mild Steel, Polyurethane, Nylon and/or Polypropylene. |
| **Lifting Mechanism** | The Compac lifting capability comes from a motor driven precision ballscrew (Case hardened and ground standard steel DIN C153). Limit switches are fitted in the column to control the maximum and minimum lift heights. Bearings are used to support the ballscrew.<br>Lifting is powered by a 24-volt DC motor incorporating a worm-drive gearbox and an electro-magnetic brake. |
| **Battery** | Packline supply, use & recommend two units of the following "Yuasa" Gel battery for the Compac. Where a customer is supplying their own batteries, we suggest a similar specification is used to ensure good usability and service life. The battery compartment has maximum usable dimensions of L 218 x W 305 x H 205mm.<br><br>**Battery Technical Specification:**<br>Yuasa Valve Regulated Gel Battery<br><br>Part No: B208/005<br>Voltage: 24 Volt (2 x 12V batteries per machine)<br>Capacity: 36 Ah<br>Size: L 196 x W 130 x H 169mm (inc. terminals)<br>Battery mass: 11.2 kg (x2)<br>Recommended battery terminal: M5(F)<br>Bolts torque setting: 2-3Nm<br><br>**Discharging and Charging:**<br>Discharged or partially discharged batteries should be recharged immediately after use to ensure that a good service life is achieved. A highly discharged battery that is left in that state for an extended period is likely to be permanently damaged.<br><br>Packline recommend that the machine is placed on charge after use to ensure the battery is in the most serviceable and best condition.<br><br>The Packline Compac Lifter is supplied with a built-in battery charger. A mains connection lead and built-in voltage meter is supplied for this purpose and is available in either 110/240 Volt system which can operate on a frequency of either 50/60Hz. |
| **Environment** | The Compac is intended for interior use, on smooth level factory floors. Its construction makes it suitable for typical environments of the agri-foodstuffs industry. |
| **Wheels** | The rear swivel castors are fitted with a parking brake. The front wheels are either swivel castors, fixed direction pallet wheels or rocking pallet wheels. Bespoke options available. |
| **Noise Level** | The Compac creates sound of a maximum of 65 dB (C). These readings are for a fully loaded C300 model at 0.5m from column. |
| **Capabilities** | The Compac unit can vary in capacity and dimensions; please see matrix of information on the standard range. Separate information may have been supplied for a bespoke solution. Please note that the capacities are given to a defined load centre, beyond this the load should be reduced - please contact your Agent or Packline with any queries. |
| **Options** | The electrical enclosure can be sealed to IP65 for high humidity and wash-down applications. The general sealing is to IP30.<br>An extended Location Block may be supplied to achieve a higher/lower lift height. Additional Counterbalance weights can be attached to the electrical enclosure to prevent forwards tipping. |

## PART DESIGNATION

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# MARKINGS

| Label | Location – Meaning |
|---|---|
| | Enclosure cover |
| | Inside enclosure cover - earthing points |
| | Charging socket - protective earth |
| | Legs - do not stand on legs |
| | Column - not for lifting persons |
| | Carriage (by quick release pin) - unlocked/locked positions |
| | On top of electrical enclosure or on lifter column |
| | On top of electrical enclosure or on lifter column<br><br>Warning as both the Compac Lifter capacity and Attachment capacities need to be considered e.g. a high rated Attachment could be put on a low rated truck and exceed the truck's capacity, causing damage when loaded |

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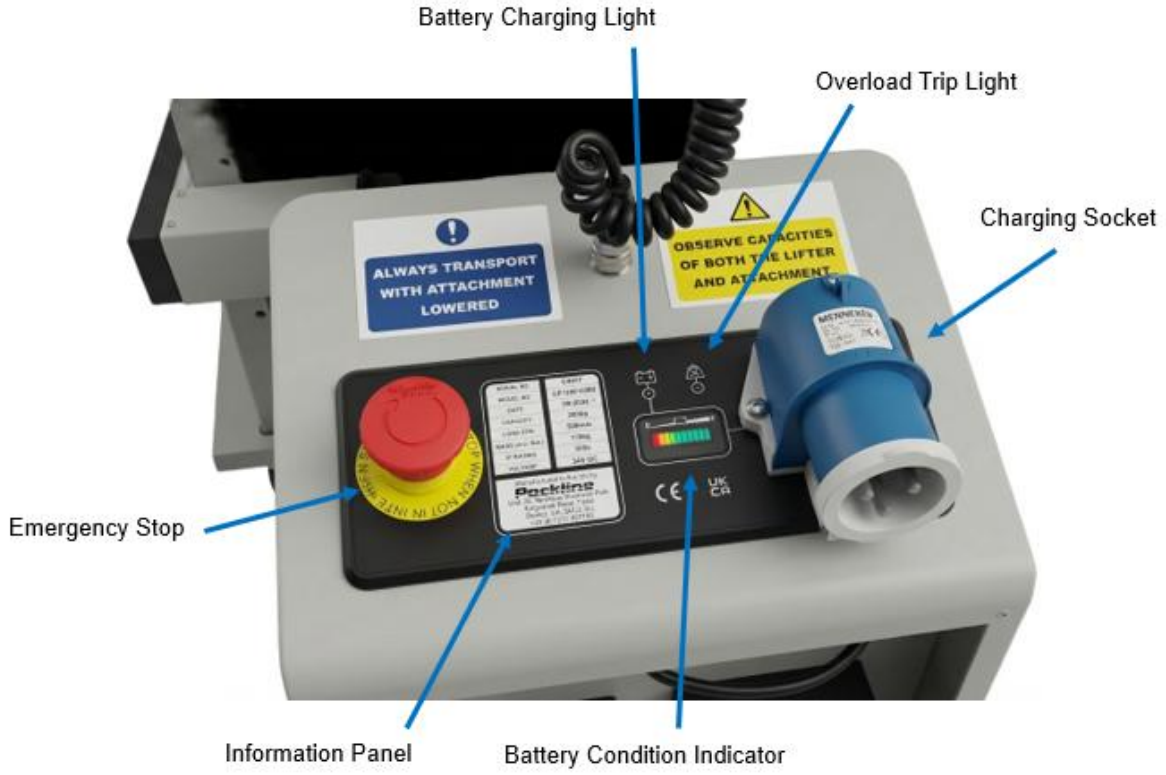
# MARKINGS (Cont'd)

**Enclosure Control Panel**




**Emergency Stop** - this is a safety feature to be operated in the event of a malfunction or adverse incident. Press to engage then twist to release. In hazardous circumstances, move away from equipment and treat with caution. Activate emergency stop when the Compac is not in use to preserve battery life (if your Compac has an On / Off switch ensure it is switched off when not in use). Release E-Stop when Compac is charging to see progressive charge lights displayed on Battery Condition Indicator.

**Information Panel** - this shows the information specific to the model purchased. A copy of this information will be on the CE Declaration at the start of this manual.

***Warning!*** It is important to observe the capacities of both the truck and Attachment to ensure safe operation i.e. a higher rated attachment could be attached to a low rated unit. If in doubt, please contact Packline with details.

**Battery Charger Operation** – The battery charger uses a combination of charge at constant current and constant voltage. This makes a significant reduction of the charging time possible and prevents permanent damage to the battery.

**Battery Condition Indicator** - This provides an indication of the battery condition whilst the unit is at rest. When the machine is being operated, the battery level will dip down. The indicator is then likely to go back up when the machine is left as the battery rests and recovers, this is normal.

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# MARKINGS (Cont'd)

**Battery Condition Indicator Charging Light Visual Signals:**

- **Amber:** Charging
- **Green:** Charged

If the machine operator has any suspicions regarding the battery state, then the machine should not be used until the battery has been assessed and cleared as operational by an electrical professional.

**Charging Socket** - this is relevant to the specified power supply (230V shown, 115V EU, 110V USA), it will be fitted to the Enclosure Control Panel and will work in conjunction with the Supply Lead (if supplied) to charge the battery. The Battery Charging Light shows when the battery is successfully charging.

***Note***: **The Battery Charging Light will turn green to indicate a full charge.**

**Overload trip warning light** - This light will illuminate if the Lifter has been overloaded.

The lifting system will cut out automatically if the Lifter has been overloaded. Lowering the load will remove the overload condition. **This is an important safety feature.**

Operating the lift repeatedly without allowing the machine to rest for at least 30 seconds between cycles can affect the battery and cause the machine to cut out. If the unit continues to trip, and whilst the machine is at rest the battery condition indicator remains in the yellow or red sections on the battery indicator, the machine must be placed on charge urgently and not used until it has fully recharged.

**Battery Charging Instructions**

1- Connect to mains supply

2- Battery LED will illuminate Amber colour

3- Battery LED will illuminate Green when charged

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# OPERATION

### Automatic Switch-Off Timer

The lifter comes equipped with an automatic timer switch which will ensure the battery capabilities of the unit are maintained. The automatic switch puts the *Compac* into hibernation if no operation is used for 2 minutes. It is possible to adjust the length of time before standby mode is triggered, please contact Packline if adjustment is required.

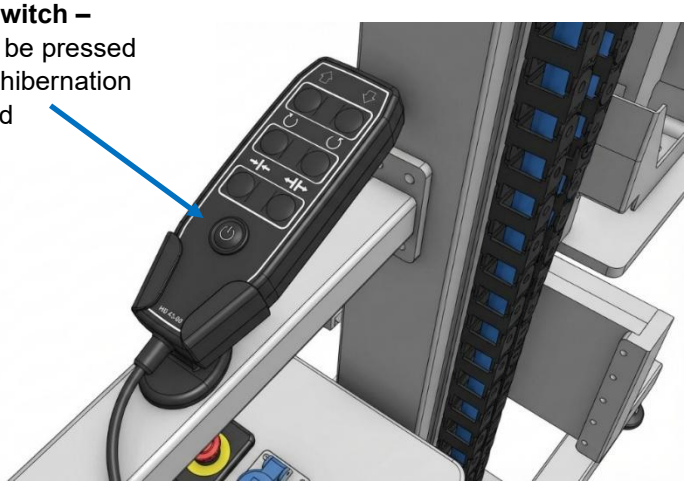
To use the *Compac* after a hibernation period, press the on switch on the remote-control, (shown in image below), and then the button representing the function you require.

If you plan to leave the *Compac* unused for any period, pressing the E-Stop down will immediately put the *Compac* into hibernation. The E-Stop will need to be disengaged before the *Compac* can be used again.

### Remote Control Unit

The *Compac* has a clearly marked remote control unit with an on switch and two push buttons allowing the raising or lowering of the Attachment. Please note: The specific buttons on your remote control may differ depending on the *Compac* / Attachment you are using (standard remote control or joystick with variable speed control).

**On Switch –**
Must be pressed after hibernation period



If the *Compac* has entered hibernation mode, the on button will need to be pressed before the buttons on the remote can be used. If the E-Stop has been pressed, it will also need to be released before the *Compac* can be used.

When the remote-control push button has been pressed and held down, the Attachment will travel in the desired direction until the Attachment height is at its most extreme position. A microswitch is then automatically activated to stop the Attachment. The Attachment height can be stopped at any position by releasing pressure on the push button.

Do not lower the Attachment (or the item you are lifting) onto the legs of the *Compac* - occasionally this may be possible but is dependent on the item and Attachment you are using. Bottom adjustable microswitches are available to counteract this if required - please ask Packline for further details

When the lifting button is pressed, there is a two second acceleration ramp for the Lifter to reach its maximum lifting speed. This can be modified to a maximum of 5 seconds upon request to Packline.

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# OPERATION (Cont'd)

**Manoeuvring**

Each rear castor has a parking brake fitted. These should be engaged whenever a loading/unloading operation occurs or when the unit is left unattended.

The front wheels will be either castors, fixed pallet wheels or rocking pallet wheels, depending on the application:

Castors allow good manoeuvrability on lighter loads.

Rocking pallet wheels allow the *Compac* to manoeuvre loads from a pallet fitted with a base bar NB Care should be taken when doing this as pallets may differ between manufacturers.

When a *Compac* has fixed direction wheels, to turn the Lifter it is easiest to rotate the machine about one of the front castors. Always ensure there is enough space to allow the turning arc required.

A *Compac* should never transport loads with the Attachment raised. The Attachment should only be raised for positioning purposes during the lifting and/or removal of loads. When travelling, the Attachment should be lowered to approx. 300mm from the ground, or to as low as possible.

If the operator finds the handlebar surface uncomfortable during operation, protective gloves are recommended. Personal Protective Equipment should always be used if there are any concerns with operation.

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# COMMISSIONING

### Getting Started

Once the *Compac* has been unpacked, see below or refer to the Quick Start Guide for essential first steps and check:

1. That all parts have been delivered in accordance with the Consignment Note. The batteries and charging lead are usually shipped unfitted in the electrical cabinet.

2. That the *Compac*, batteries and Attachment(s) are undamaged.

3. If there are any omissions or damaged parts, you must notify your supplier immediately.

### Battery Installation

Ensure the following instructions have been thoroughly read before attempting to install the battery.

**Warning!** Steps 1 to 3 must be followed when working on the Battery or Electrical system.

1. Ensure that the *Compac* is **NOT** connected to the “mains” electrical supply.

2. The Charging Lead **MUST NOT** be connected to the charging Socket.

3. Remove the Electrical Enclosure Cover by removing the six retaining screws, as shown in figure 1 below.

**Figure 1:**

*Electrical enclosure cover removed.*


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## COMMISSIONING (Cont'd)

4. The batteries will be stored on the bottom shelf of the cabinet. Pull them out, and connect both batteries as shown in the following image (Figure 2):

***Warning!*** Incorrect polarity connection will damage the electrical system and invalidate the warranty.

*Figure 2*

Connect the terminal leads ensuring that the positive lead (Red) is connected to the Positive terminal (+) and the Negative lead (Black) to the Negative terminal (-). The short link lead has positive (red) and negative (black) ends, connect in series as shown above.

5. Install the batteries back into the bottom shelf of the electrical cabinet and connect the battery plugs as shown in *Figure 3*. Lift both batteries together taking care not to strain the wires, then push forward into the cabinet and separate around the cable gland located inside the cabinet. Push each battery against each cabinet side.

6. Ensure that the Earth Lead is connected to the Electrical Enclosure Cover's Tab, then replace the Electrical Enclosure Cover. If fitted with a sealing strip, ensure that the screws are fastened tight enough to evenly compress the strip and create an adequate seal.

7. Important: Check your battery charge. The battery should be fully charged, as indicated by the Battery Level Indicator on the Information Panel. If not, then follow the instructions for charging the battery.

8. Important: Check the function. The unit's function needs to be checked, as described in the Operation Section.

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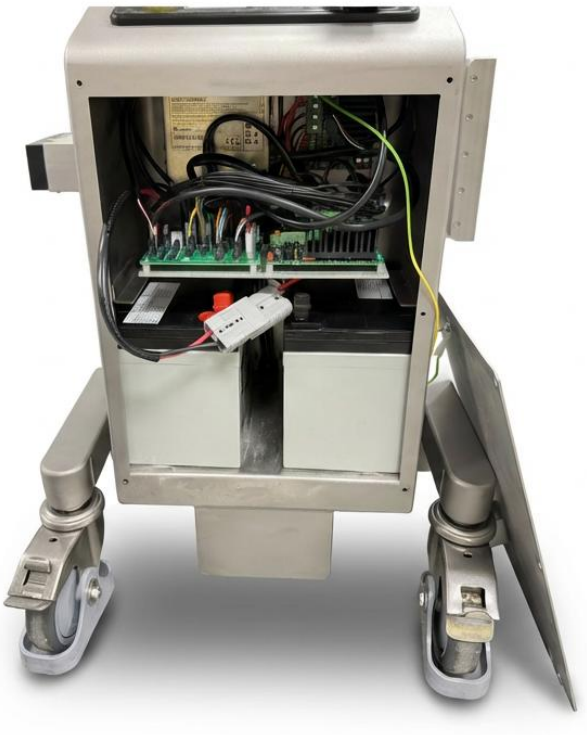
# COMMISSIONING (Cont'd)

*Figure 3*



**Charging the Batteries**

Warning! Do not attempt to charge the batteries with the Electrical Enclosure cover removed.

To charge the batteries, connect the supplied charging lead to the charging socket and then to an appropriate mains supply. Depending on the country of use, the charging points and leads are colour coded to correspond with the local voltage supply: Blue fittings indicate 220-240 volts, yellow fittings indicate 110-120 volts, and grey fittings indicate 110-120v USA.

It will take approximately 8 hours to charge the batteries completely, depending on the level of discharge. We recommend that your Compac is charged after each shift and until it is next required – over charging will not occur and no damage will be done to your batteries if they are charged for long periods of time.

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## COMMISSIONING (Cont'd)

**Caution**: Ensure the batteries receive their first charge within 1 week of equipment delivery.

If leaving a Lifter unattended for a long period i.e. more than a week, the batteries may

become discharged and unusable. If voltage drops to amber or red, the unit will not operate correctly and will need to be placed on charge.

The Charging Lead should be connected to a 5 Amp fused mains supply of the correct voltage to suit the model of Compac being charged.

If your Compac has an optional charger, the above voltage restrictions may still apply.

If the Lifter is to be transported on a vehicle, the battery should be disconnected.

The parking brakes should be engaged, Attachment removed and the Lifter securely strapped across the legs and base to prevent overturning.

**Note**: The *Compac* will not function whilst battery charging is in progress. This is a safety feature.

The electrical cabinet may become warm whilst charging.

**Note**: When using a Motorised Attachment, both the Lifter and Attachment will stop working whilst the battery charging process takes place.

**Note**: Power required for charging:

- Input: 100-240V - 50/60Hz - 2.8-1.3A
- Output: 24Vdc – 5A

100V x 2.8A= 0.280Kw

240V x 1.3A= 0.312Kw

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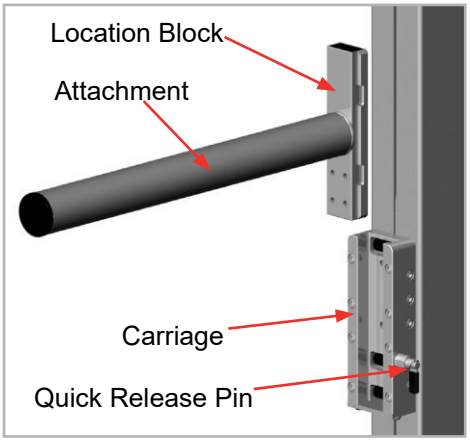
# ATTACHMENT FITTING

The Attachment and Lifter used will determine the way that the Attachment is fitted. The Attachment can be permanently fixed to the Lifter or interchangeable utilising a quick release system incorporated on the Lifter.

**Fixed Attachment -** the Attachment is permanently fixed on to the Lifter and so requires no fitting. Please note, the Attachment should only be removed by authorised personnel.

**Interchangeable Attachment** - the Attachment can be removed from the lifting equipment incorporating a Quick Release mechanism. This mechanism is to prevent the Attachment from inadvertently riding out of the Carriage whilst lowering i.e. hitting an obstacle. On Motorised Attachments, remove the electrical plug by twisting anticlockwise (as viewed from underneath) before removing the Attachment.

**Fitting an Interchangeable Attachment**




1. Set the carriage at a suitable working height and ensure the Quick Release Pin is disengaged by twisting to the unlock position.

2. Lift the Attachment safely and slot the Location Block into the Carriage ensuring the SWL label is upwards. Once the Attachment is part way into the Carriage assembly, slide it down until a positive stop is reached.

3. Ensure the Quick Release Pin is fully engaged by twisting it to the locked position.

***Warning!*** Care should be taken when fitting/removing an Attachment to ensure no injury is caused. Do not place fingers underneath the Attachment Location Block. Always ensure hands and feet are clear of all moving parts and care is taken not to trap them whilst loading, unloading, fitting an Attachment, or in adverse conditions. If the weight of the Attachment falls outside of the guidelines for manual lifting, either seek assistance, use a lifting device or a purpose-built Docking Station (available as an option from Packline).

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# ATTACHMENT FITTING (Cont'd)

**Removing an Interchangeable Attachment**

1. Set the carriage at a suitable working height and ensure the Quick Release Pin is disengaged by twisting to the unlock position.

2. Take the weight of the Attachment Assembly and then lift until the Location Block is clear of the Carriage Assembly; the Attachment can now be removed and replaced with an alternative.

***Warning!*** When the Quick Release Pin is engaged, the operator should ensure that they do not hit any obstacles whilst lowering or continue lowering when the attachment has deposited the load as this will drive the load into the obstacle or cause the *Compac* lifter to overturn.

**Docking Station Option** - Packline can supply custom platforms which are designed to support the Attachments whilst fitting/removing. If this has been supplied, please consult the relevant manual for information.

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# OPERATIONAL CHECKS BEFORE USE

**Overview & Cleaning**

The *Compac* has been designed and manufactured in such a way that ensures maintenance is kept to a minimum with large surfaces angled to reduce build-up of contamination and with minimal dirt traps. The materials used should minimise corrosion, however, the unit should be regularly wiped down to ensure this. The frequency of wipe down and cleaning will depend on operator procedures for your in-house practices.

All parts, including the rubber pads and rollers, should be cleaned by wiping with a lint-free cloth, using an Isopropyl Alcohol cleaner for machines. Any stainless- steel parts should then be wiped with a lint-free cloth, using a suitable stainless-steel cleaner.

The surface coating of rubber pads should be periodically checked for shedding and replaced as necessary.

The seals in the electrical enclosure lid should be periodically checked for water ingress. If water is present, a service may be required along with a repair of the IP65 water seal kit. Please check the IP Rating on the control panel of the lifter and clean following the appropriate guidelines:

- **IP30:** Suitable to apply a light water spray at 0.07 l/min or splashing from above 200mm from the lifter.
- **IP65:** Suitable to wash down with water at 12.5 l/min at a minimum of 2.5 meters from the lifter.

***Warning!*** Do not use a high-pressure jet washer
Do not use chlorine-based cleaners
Water temperatures should be no more than 50 degrees Celsius (120 Fahrenheit)
Always remove the Attachment and batteries from the *Compac* before any maintenance is undertaken.

**Every Shift**

1. Check *Compac* condition and function - ensure up/down lift operates, visual check on framework, ensure rear castor brakes operate, check E-Stop operates.
2. Check Attachment condition and function - carry out visual inspection, refer to individual attachment manual for maintenance advice.
3. Check battery condition indicator - charge if required.

***Warning!*** The following tasks should be carried out by skilled personnel

**Every Month / approx. 1,330 lifts / approx. 33 hours**

- Check castors turn and swivel and brake.
- Check for play in the lifting assembly.

**Every 3 Months / approx. 4,000 lifts / approx. 100 hours**

1. Check Column Rollers (inner and outer).
2. Check Microswitches

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# MAINTENANCE AND SERVICING

**Annually / approx. 16,000 lifts / approx. 400 hours**

In accordance with the Health and Safety Regulations, it is a legal requirement that all lifting equipment is thoroughly, and as a minimum, annually examined. Packline provides a full Maintenance Service package: details of this can be obtained directly from Packline.

**Packline offers a full service including pick up and return of equipment with a fast turnaround.**

**This can be set up on an annual or one-off basis as required.**

**Packline recommends all servicing and maintenance is carried out by our skilled engineers on-site or back to base.**

**Note:** Only use Packline approved spares.

**The Maintenance Schedule supports the European LOLER 98 regulations**.

**It is carried out with reference to LOLER 98 Annual Inspection Directive and in accordance with the Health and Safety Executive Guidance HS [9] 6**

***Caution:*** When Lifter is fitted with an IP kit, the motor and lower bearing are sealed into the unit and removing the components can break this seal and invalidate the protection. Please contact Packline for further information.


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# FAULT FINDING

| Symptom | Possible Cause / Remedy |
|---|---|
| Machine does not work: | Are the batteries connected properly and charged?<br>Connect the batteries or put on charge.<br>***Note:*** If the voltage is low, the lifter will not operate and needs to be put on charge. |
| | Are the battery terminals connected to the correct polarity?<br>Check if any of the fuses on the PCB is incorrectly connected or blown (refer to fuse table at the end of this manual). |
| | Are the top and bottom microswitches connected or have the wires been trapped against the bearing block causing a short? |
| | Are the top and bottom microswitches stuck open? Replace microswitches. |
| | If none of the above – contact Packline as the PCB or Battery may need replacing. |
| Carriage travels in one direction only: | If carriage does not go up, the top microswitch is the problem. If the carriage does not go down, the bottom microswitch is the problem. |
| | Is the microswitch connected properly or have the wires been trapped against the bearing block causing a short? |
| | Check upper and lower limit cables and plugs are secure on the PD1 PCB |
| | If none of the above – contact Packline as the PCB may need replacing |
| Battery is not charging: | Has the fuse F5 on PD1 PCB come loose, is missing or blown? |
| | Check the condition of the batteries. |
| | Check connections in the mains lead are correct and secure. |
| | Check connections in the socket on the machine and to the transformer are correct and secure. |
| | Check ambient temperature - if it is high, the charger may not be able to dissipate electrical heat and may not charge properly. |
| | If none of the above – contact Packline as the PCB may need replacing |

# FAULT FINDING (Cont'd)

Carriage hits top or bottom bearing blocks:

Contact Packline as the relevant microswitch and bearing block will need replacing.

Machine vibrates when carriage is moving:

Slight vibrations can be cured by adjusting the position of the bearing blocks or will vanish when an Attachment is placed into the carriage.

More serious vibrations are caused by the Ball-Screw being bent. Contact Packline as this will have to be straightened or replaced.

Machine cuts out whilst lifting:

The Automatic cut out may have triggered due to excessive load or wear. Lower and remove any excess load.

If this continues, contact Packline as the worn components may need replacing.

Voltage in batteries too low - the lifter will not operate - place on charge

**Microswitch Fault Finding**

1. Use controls to lower carriage to the bottom of the column

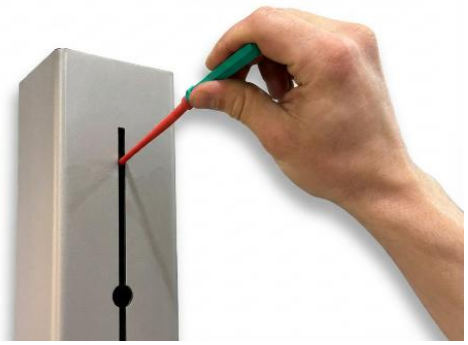
2. Whilst raising the carriage using the controls, insert a thin implement into the column at the top. Close the microswitch by depressing the cam using the implement.

3. Ensure that the carriage has stopped.

4. Carry out the same process at the bottom of the column.

5. The carriage should not move when the control buttons are depressed if the micro switch is engaged.

6. A sign that the microswitches are failing may also be that you hear the ball nut hitting the column bearing. This would indicate that the above test is required to be carried out.



Top Microswitch Test

Bottom Microswitch Test

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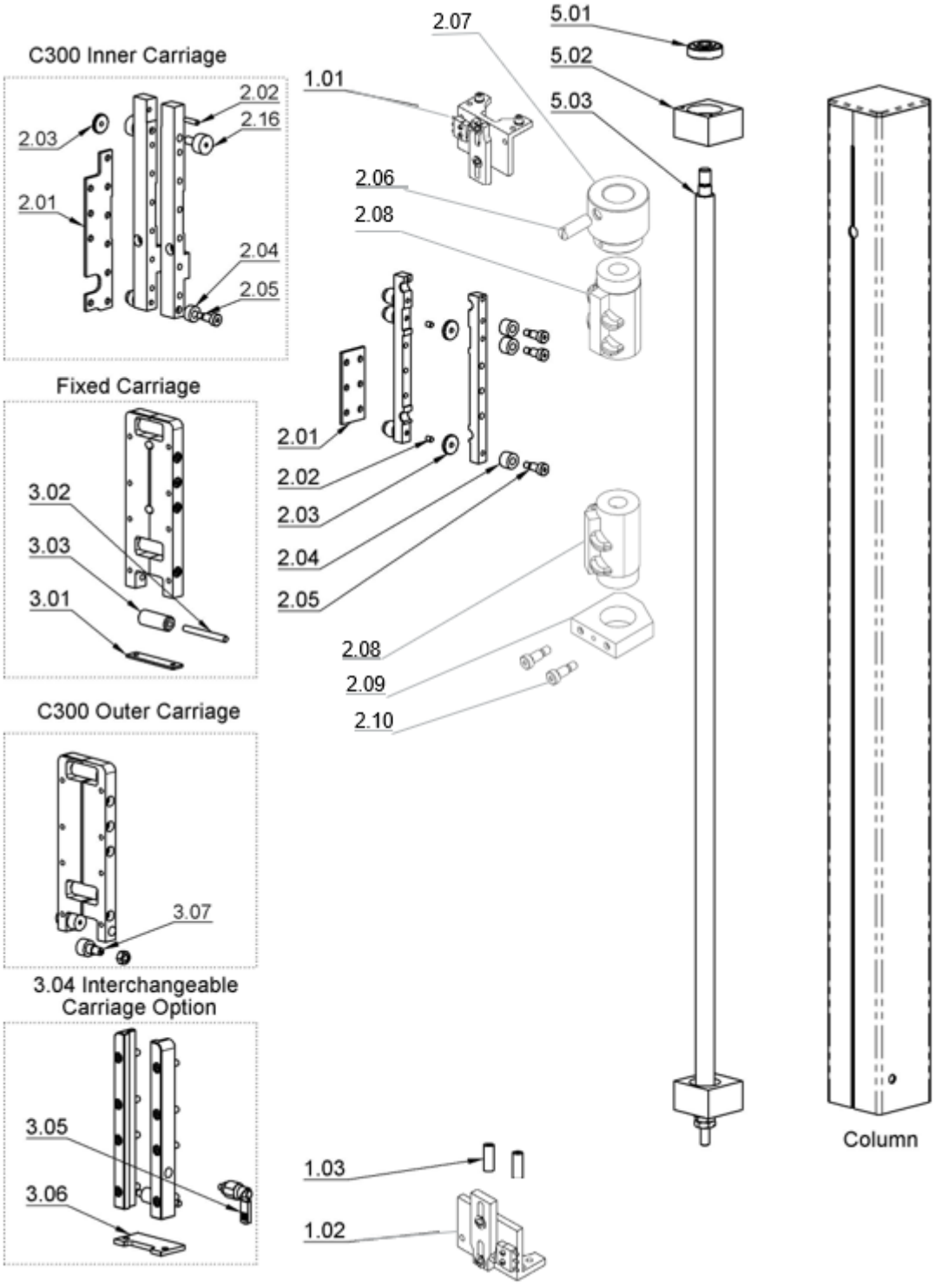
# SPARE PARTS 1 – COLUMN COMPONENTS

***Note*: This is a visual representation only - parts and assemblies can vary between models. For any parts not shown please contact office for advice.**




**Packline will require the Compac model and Serial No. before any spare parts can be ordered.**

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# SPARE PARTS 1 – COLUMN COMPONENTS (Cont'd)

| No. | Description | Qty per Machine |
|---|---|---|
| | **Microswitches** | |
| 1.01 | Top Microswitch Assembly | 1 |
| 1.02 | Bottom Microswitch Assembly | 1 |
| 1.03 | Microswitch Spacer | 2 |
| | **Inner Carriage** | |
| 2.01 | Connecting Plate - C60/C150 or C300 | 1 |
| 2.02 | Roller Shaft -C60/C150 or C300 | 2 or 1 (C300) |
| 2.03 | Location Washer - C60/C150 or C300 | 2 or 1 (C300) |
| 2.04 | Inner Column Roller - C60/C150 or C300 | 6 or 2 (C300) |
| 2.05 | Shoulder Screw | 6 or 2 (C300) |
| 2.06 | Lifting Pin - C150 | 1 |
| 2.07 | Carriage C150 | 1 |
| 2.08 | Ballscrew Nut | 1 |
| 2.09 | Carriage C300 | 1 |
| 2.10 | Lifting Shoulder Bolts C300 | 2 |
| 2.16 | Track Roller C300 | 2 |
| | **Outer Carriage** | |
| 3.01 | Roller Plate | 1 |
| 3.02 | Roller Shaft | 3 |
| 3.03 | Outer Column Roller | 3 |
| 3.04 | Interchangeable Carriage Upgrade Kit* | 1 |
| 3.05 | Latch Pin and Locknut | 1 |
| 3.06 | Stop Plate | 1 |
| 3.07 | Cam Track Roller | 2 |
| | **Ballscrew** | |
| 5.01 | Roller Bearing | 2 |
| 5.02 | Bearing Block | 2 |
| 5.03 | Ballscrew - depends on Column Height | 1 |

* If wanting to change the options of the *Compac* Lifter, please contact office for advice.

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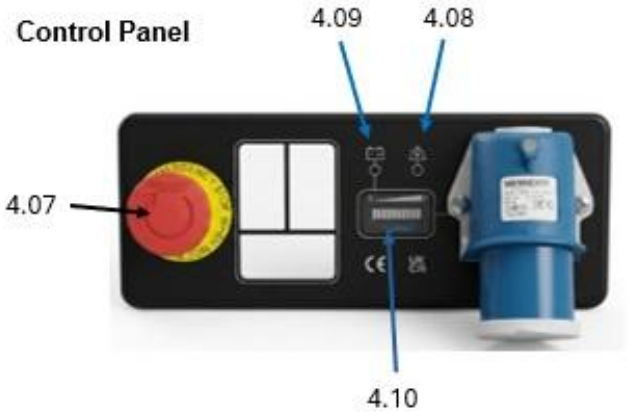
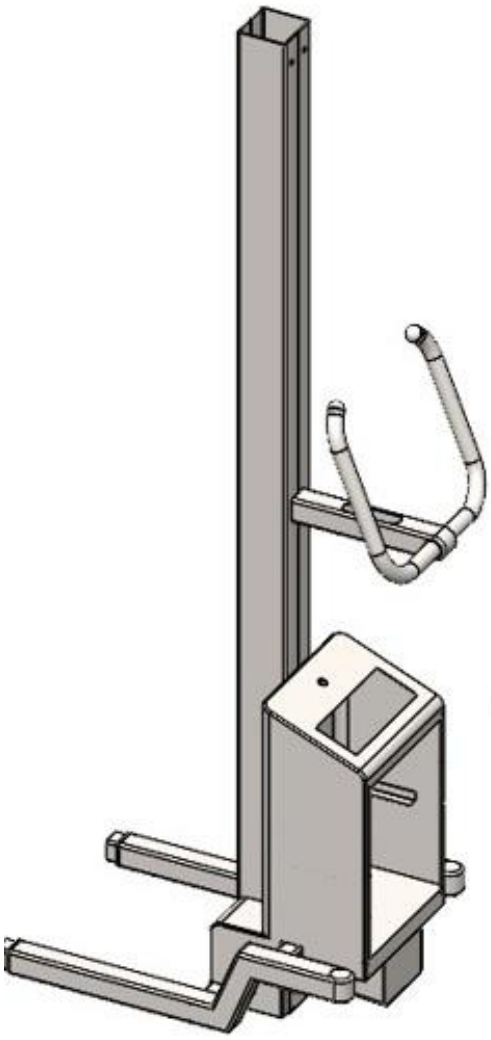
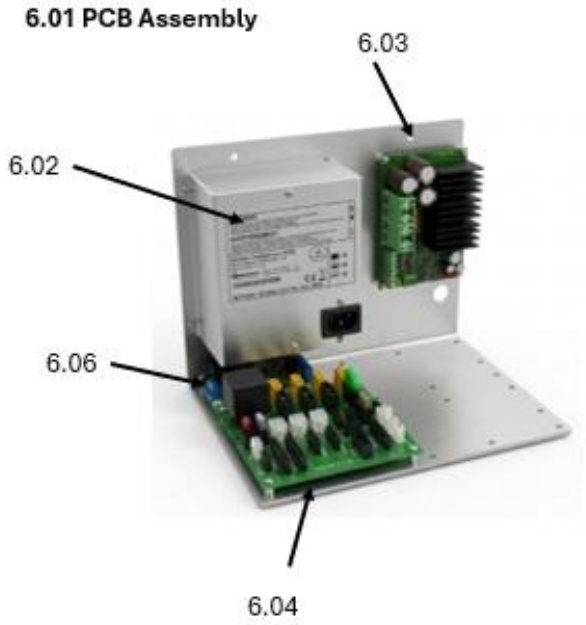
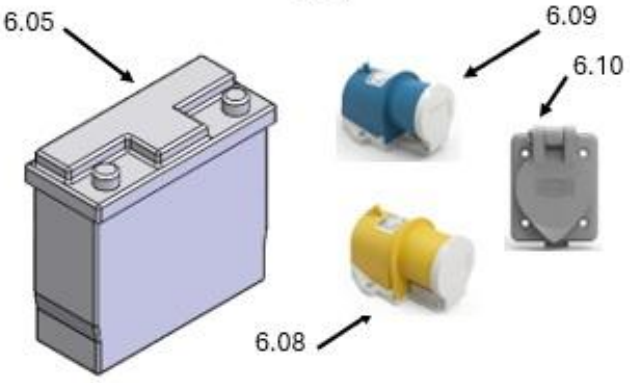
# SPARE PARTS 2 – CONTROL AND ELECTRICAL COMPONENTS

***Note*: This is a visual representation only - parts and assemblies can vary between models. For any parts not shown please contact office for advice.**






**Packline will require the Compac model and Serial No. before any spare parts can be ordered.**

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# SPARE PARTS 2 – CONTROL AND ELECTRICAL COMPONENTS (Cont'd)

| No. | Description | Qty per Machine |
|---|---|---|
| | **Control Panels** | |
| 4.04 | Handheld Control Upgrade Kit* | 1 |
| 4.05 | Handheld Controller | 1 |
| 4.06 | Holster Bracket | 1 |
| 4.07 | Emergency Stop Button | 1 |
| 4.08 | Overload LED | 1 |
| 4.09 | Charging LED | 1 |
| 4.10 | Battery Meter | 1 |
| | **Electrical** | |
| 6.01 | PCB Assembly - 110v or 240v | 1 |
| 6.02 | Battery Charger – 110v-240v | 1 |
| 6.03 | 50A DC Motor Controller | 1 |
| 6.04 | PCB – PD1 | 1 |
| 6.05 | Battery 12v | 2 |
| 6.06 | Timer PCB | 1 |
| 6.08 | UK/Euro 110V Socket | 1 |
| 6.09 | UK/Euro 240V Socket | 1 |
| 6.10 | USA/Canada Hubble Socket 110v USA | |

* If wanting to change the options of the Compac Lifter, please contact office for advice.

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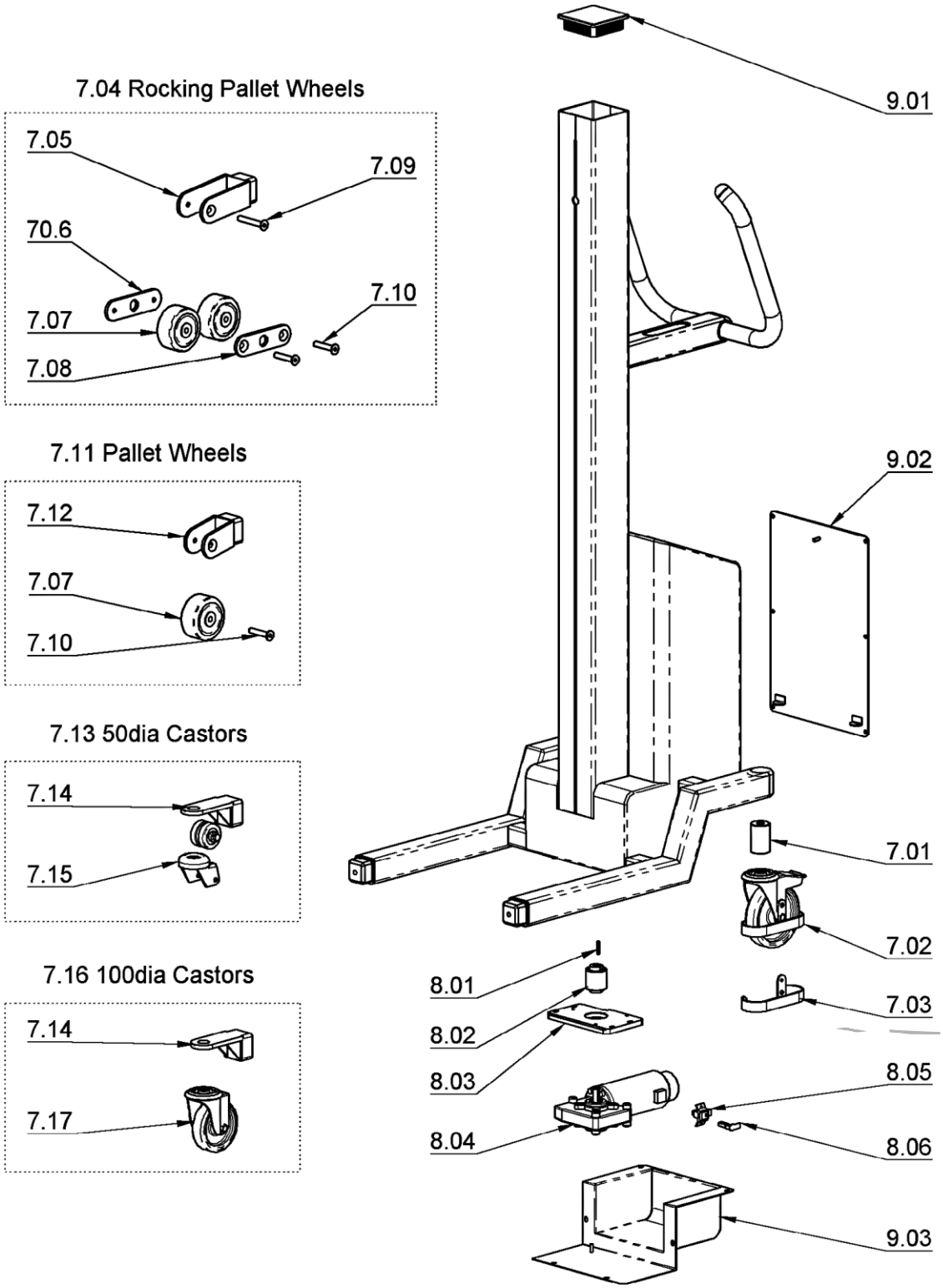
# SPARE PARTS 3 – FRAME AND DRIVE COMPONENTS

***Note:*** **This is a visual representation only - parts and assemblies can vary between models. For any parts not shown please contact office for advice.**

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# SPARE PARTS 3 – FRAME AND DRIVE COMPONENTS (Cont'd)

**Packline will require the Compac model and Serial No. before any spare parts can be ordered.**

| No. | Description | Qty per Machine |
|---|---|---|
| | **Wheels** | |
| 7.01 | Rear Castor Spacer | 2 |
| 7.02 | Rear Braked Castor and Footguard (assembled) | 2 |
| 7.04 | Rocking Pallet Wheel Assembly* | 2 |
| 7.05 | Rocking Pallet Wheel Bracket | 2 |
| 7.06 | Threaded Arm | 2 |
| 7.07 | Roller and T Bushes (assembled) | 2 or 4 (RPW) |
| 7.08 | Rocking Arm | 2 |
| 7.09 | Rocking Pallet Wheel Main Screw | 2 |
| 7.10 | Pallet Wheel Screw | 2 or 4 (RPW) |
| 7.11 | Pallet Wheel Assembly* | 2 |
| 7.12 | Pallet Wheel Bracket | 2 |
| 7.13 | 50dia Castor Assembly* | 2 |
| 7.14 | Front Castor Bracket | 2 |
| 7.15 | 50dia Castor | 2 |
| 7.16 | 100dia Castor Assembly* | 2 |
| 7.17 | 100dia Castor | 2 |
| | **Drive** | |
| 8.01 | Drive Key | 2 |
| 8.02 | Drive Coupling | 1 |
| 8.03 | Motor Plate | 1 |
| 8.04 | Motor, Gearbox, Brake and Wiring - C150 or C300 | 1 |
| 8.05 | Brush Holder | 2 |
| 8.06 | Motor Brushes | 2 |
| | **Frame** | |
| 9.01 | Column Cap | 1 |
| 9.02 | Enclosure Cover | 1 |
| 9.03 | Motor Cover | 1 |

* If wanting to change the options of the Compac Lifter, please contact office for advice.

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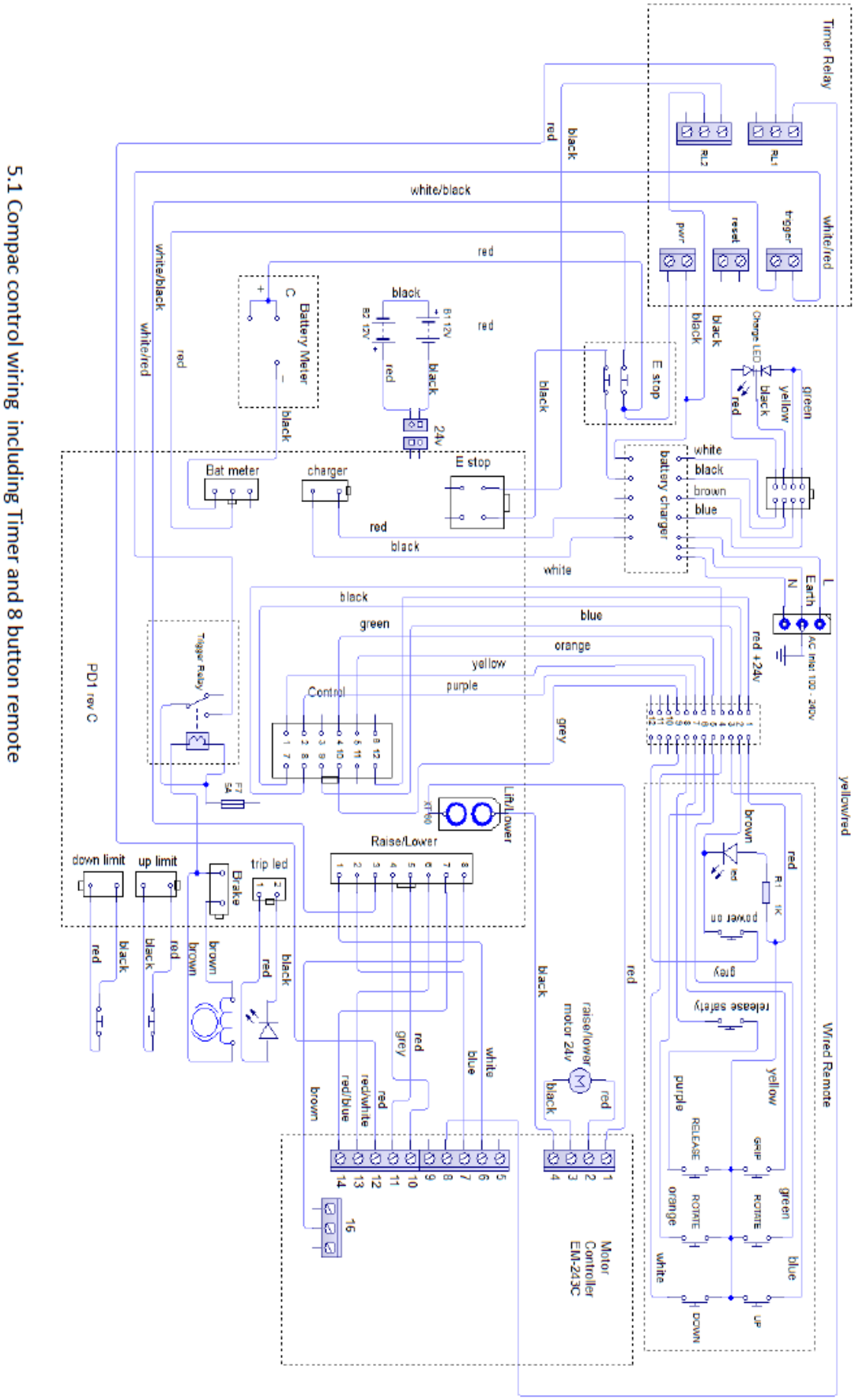
# ELECTRICAL DRAWING

5.1 Compac control wiring including Timer and 8 button remote

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## FUSE TABLE

**Note:** some fuse spaces may be left empty if the *Compac* is not operating a motorised attachment.

| Number | Rating | Purpose |
|---|---|---|
| F1 | | Aux/Eject |
| F2 | 30A | Motorised attachment rotation motor |
| F3 | 30A | Motorised attachment grip/release motor |
| F4 | 30A | Lift/lower Motor |
| F5 | 10A | Battery charger DC 24v |
| F6 | 3A | Battery meter and motorised attachment proximity sensors |
| F7 | 10A | Electromagnetic brake overload trip LED upper and lower limit switches |


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# COMPAC MAINTENANCE AND SERVICE

*Avoid Expensive Down Time …*

Take advantage of Packline's Annual Back to Site Maintenance Service Agreement.

To ensure your *Compac* lifting equipment gives you years of trouble-free service and complies with the Health and Safety directives, let Packline take care of your annual servicing, maintenance and safety checks.

***Compac* Maintenance and Service Agreement**

- ✓ The contract includes:
- ✓ Collection from and return to your site
- ✓ All replacement wearing parts as recommended and shown in the Compac Operator Manual.
- ✓ Service labour costs
- ✓ A complete 28-point Health & Safety check
- ✓ A detailed "MOT" style report to meet with legislation and satisfy insurance assessments.
- ✓ 5 working day turnaround

For those customers wishing to carry out their own annual maintenance, the company offers product-specific Service Packs.

To take advantage of this offer or for further details, please contact the office or alternatively, complete our online enquiry form by following the link:  https://www.packline.co.uk/information-request-form/

**Packline Limited**

Unit 1, D12 The Fulcrum, Vantage Way, Poole, Dorset, BH12 4NU

Tel: 01202 307700 - Email: info@packline.co.uk – Web: www.packline.co.uk

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# SERVICE PACK C150

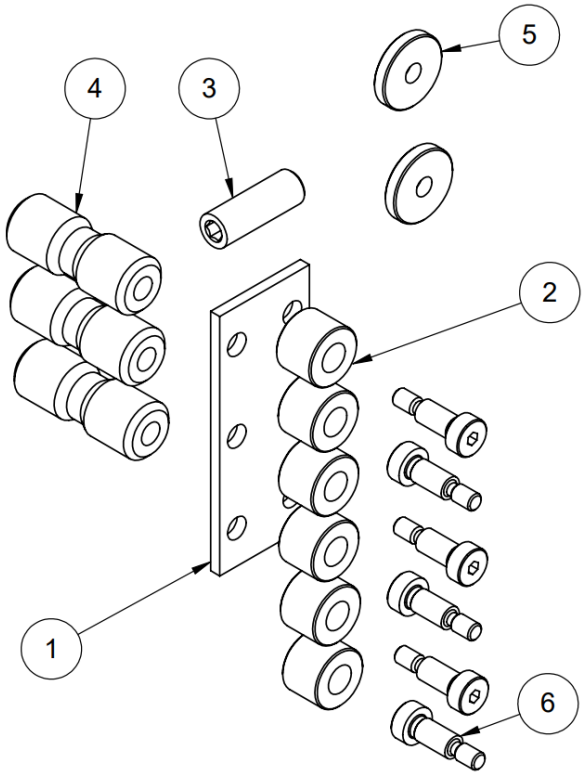
This is the service pack you will need for a C150 *Compac*. Please contact Packline to discuss prices and shipping.

**Annually / approx. 16,000 lifts / approx. 400 hours**

In accordance with the Health and Safety Regulations, it is a legal requirement that all lifting equipment is thoroughly, and as a minimum, annually examined. Packline provides a full Maintenance Service package: details of this can be obtained from Packline Head Office. Below are details of parts that Packline advises should be replaced annually.

**Note:** Only use Packline approved spares. Service Pack C150

***The Maintenance Schedule supports the European LOLER 98 regulations***
***It is carried out with reference to LOLER 98 Annual Inspection Directive and in accordance with the Health and Safety Executive Guidance HS [9] 6***




| ITEM NO. | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 7020-1 | 1 | Connecting Plate C150 |
| 2 | 7129-1 | 6 | Column Roller (identical to 7052-1 |
| 3 | 7036-1 | 1 | Lift Pin Mk5 |
| 4 | 7131-1 | 3 | Outer Column Roller |
| 5 | 7128-1 | 2 | Location Washer |
| 6 | B006/048 | 6 | M8 Shoulder Screw x 10d x 16lg |

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# SERVICE PACK C300

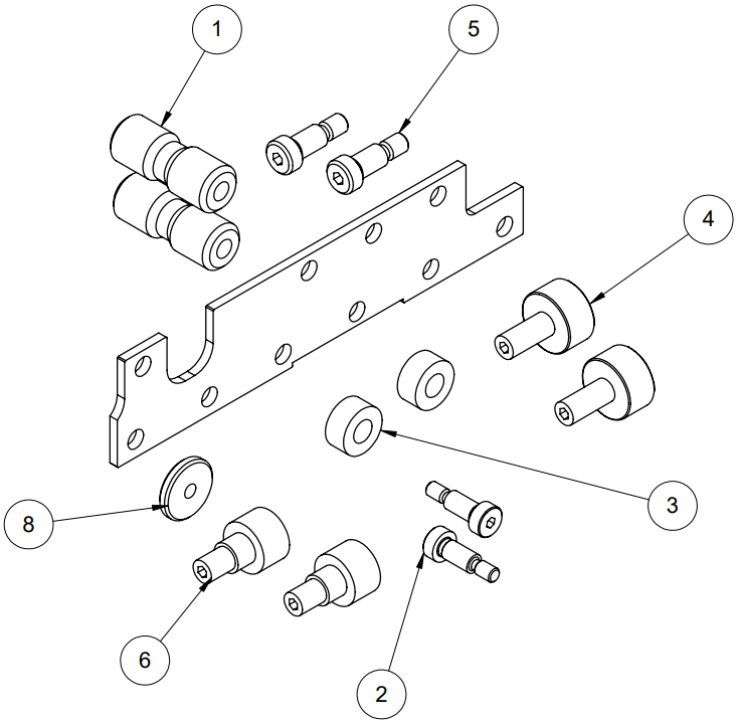
This is the service pack you will need for a C300 *Compac.* Please contact Packline to discuss prices and shipping.

**Annually / approx. 16,000 lifts / approx. 400 hours**

In accordance with the Health and Safety Regulations, it is a legal requirement that all lifting equipment is thoroughly, and as a minimum, annually examined. Packline provides a full Maintenance Service package: details of this can be obtained from Packline Head Office. Below are details of parts that Packline advises should be replaced annually.

**Note:** Only use Packline approved spares. Service Pack C300

***The Maintenance Schedule supports the European LOLER 98 regulations***
***It is carried out with reference to LOLER 98 Annual Inspection Directive and in accordance with the Health and Safety Executive Guidance HS [9] 6***




| ITEM NO. | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 7131-1 | 2 | Outer Column Roller |
| 2 | B006/048 | 2 | M8 Shoulder Screw 10dia x 16lg |
| 3 | 2671-1 | 2 | Column Roller Inner |
| 4 | B027/001 | 2 | Stud Type Track Roller |
| 5 | B006/038 | 2 | M6 x 16 Shoulder Screw |
| 6 | B027/004 | 2 | Cam Track Roller 22 dia |
| 7 | 7381-1 | 1 | Connecting Plate – C300 |
| 8 | 7390-1 | 1 | Stainless Location Washer |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**PACKLINE LTD – *Your Partner in Safe Handling***

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