Compac Mk5.1 Lifter Range

Maintenance and Servicing Manual

Read this manual before any Maintenance or Servicing

For European models this manual supports the CE Declaration of Conformity

Retain for future reference

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INTRODUCTION

Scope of Manual

This manual has been compiled to assist in the servicing and maintenance of the Packline Compac Lifter.

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

General Safety

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.

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.

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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SERVICE MAINTENANCE SCHEDULE

Routine Maintenance

It is advised that safety checks and routine maintenance be carried out on a regular basis and in accordance with the recommendation as laid down in the Compac Operator Manual.

Annual Maintenance

To comply with the safety guide lines and legislation the Compac Lifting Machine should be subjected to annual safety checks and services.

The company offers a full annual service package which includes safety checks, details are available on request.

For those companies wishing to carry their own maintenance and safety checks, listed below is a recommended schedule of checks be carried out along with details of parts that the company advise that should be replaced annually.

Check List

Frame Assembly	***Castor/Wheels***	***Lift Mechanism***
Welds	Front castors	Ball nut
Alignment	Rear wheels	Leadscrew
Rear castor mountings	Wheel brakes	Leadscrew nuts
Column front		

Carriage Assembly	***Electrics***	***Drives***
Inner carriage alignment	Micro switches	Keyway
Outer carriage alignment	Printed circuit board	Pulley alignment
Outer roller	Connections	***Replace*** – Dive belt
Replace - Inner rollers	Battery condition	Bearings
Replace - Roller shoulder bolts	Fuses	Grease bearings
Replace – Lift pin	Earth test	Bearing housing fastenings
Replace - Connecting plate	Motor brushes	

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SERVICE MAINTENANCE SCHEDULE (Cont'd)

Cam Reducer	***Operational Checks***	***Guards***
Reducer slippage	Test under load	Column cap
Coupling	Test limit stops	Sprocket
Cam settings	Check covers tight	

Service Packs to suit each model of machine are available please call the office for details and costs.

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PREVENTATIVE MAINTENANCE PLAN for the Compac

- Ensure lifter is on charge when not in use so that lifter can be used whenever required
- Ensure that the battery has a good connection – a lose connection can cause weak voltage and drain the battery more quickly
- Ensure that all terminals on the battery are covered
- Ensure that the battery meter is in good working order

- Keep wheels and castors clean and clear of debris
- Ensure that foot guards on the rear castors are not damaged or rubbing on the castor itself

- Ensure that the sprung loaded micro switches are in good operation by testing that they are moving freely top and bottom of column – see operators manual

- Ensure that the electrical enclosure cover and motor cover are both secured to the chassis
- Ensure that the attachment is fully engaged into the lifting carriage so that there is no uneven loading
- Test the emergency stop
- Ensure that handlebars are clean and safe to hold
- Ensure column cap on top of column is in place and secure
- Ensure that push buttons or remote control are not damaged

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MAINTENANCE

Overview

The Compac has been manufactured in such a way to ensure that maintenance is kept to a minimum. The materials used should minimise corrosion, however the unit should be regularly wiped down to ensure this. Packline do not recommend that chlorine-based cleaners are used on the Compac or its Attachments.

Warning! Always remove the Attachment and battery from the Compac before any maintenance is undertaken. If the Compac needs to be turned over, this should be a done by 2 or more people. The unit should either be turned on its side or turned/lifted forwards, resting the front of the column on a platform.

Every Shift

Check Compac condition and function - ensure up/down lift operates; visual check on frame-work.
Ensure rear castor brakes operate; check E-Stop operates.

Check Attachment condition and function - carry out visual inspection, refer to individual attachment manual for maintenance advice
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

Check Column Rollers (inner and outer).
Check Column Bearings.
Check Microswitches.

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 regularly examined. Packline provides a full Maintenance Service package. Details of this can be obtained from Packline Head Office.

For those companies wishing to carry their own maintenance and safety checks, listed is a recommended schedule of checks to be carried out along with details of parts that the company advise should be replaced annually.

Note Only use Packline approved spares.

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MAINTENANCE (Cont'd)

Drive	**Replace Drive Coupling** - requires disassembly of drive mechanism **Check Keyways and Fasteners** - requires disassembly of drive mechanism **Grease Bearings** - requires removal of column cap, motor cover and motor **Motor Brushes** - recommended replacement if less than 10mm long - requires removal of the motor cover and motor
Frame Assembly	**Check welds** - visual inspection both internally and externally for cracks **Alignment** - check that all castors/wheels are in contact with ground and that legs are not buckled or disfigured **Column Front** - visual check for scoring, markings, buckling/disfigurement **Column Cap** - visual check
Wheels	**Check front castors/wheels** - ensure axles/screws are securely fastened, en sure removal of foreign bodies trapped **Rear Castors** - ensure brakes operate, ensure foot guard doesn't foul any parts, ensure castor rotated smoothly
Lift Mechanism	**Ball Nut -** checked audibly for abnormal sounds **Ball Screw -** requires removal of ball screw for visual inspection **Bearing Block Fixing Nuts -** ensure screws are secure, requires removal of column cap, motor cover and motor
Carriage	**Outer Rollers -** visual inspection to be carried out, remove attachment **Inner Rollers (replace)** - requires disassembly of lift mechanism, inner and outer carriages and drive assembly **Roller Shafts (replace) -** requires disassembly of lift mechanism, inner and outer carriages and drive assembly **Roller Shoulder Bolts (replace) -** requires disassembly of lift mechanism, inner and outer carriages and drive assembly **Lift Pins (replace) -** requires disassembly of lift mechanism, inner and outer carriages and drive assembly **Connecting Plate (replace) -** requires disassembly of lift mechanism, inner and outer carriages and drive assembly **Inner /Outer Carriage Alignments -** visual and physical inspection
Electrics	**Check Microswitches** - physical external inspection **PCB** - visual inspection for condensation/corrosion **Connections** - physical check for lose wires **Battery Condition** - voltage check, min. 10.5v, max. 14v – each battery **Earth Test** - PAT test **E-Stop** - physical test **LED** - visual check on charging LED – orange / green
Operational Checks	**Load Test** - loaded to SWL under test conditions **Cover** - physical check, ensure fixings are secure

Packline offer 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

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MAINTENANCE (Cont'd)

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.

Microswitch Maintenance

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

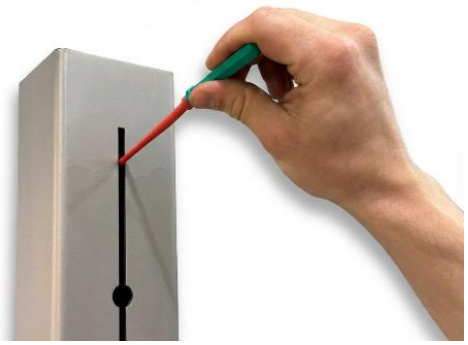
2. Whilst raising the carriage using the controls, insert a thin implement into the column at the top. Close the microswitch by depressing the cam using the implement.

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

Battery Maintenance

The battery supplied with the Compac is a Sealed Gel Maintenance-Free type. However, please observe the following:

1. Always keep the battery top and terminals clean.

2. Coat terminals and connections sparingly with petroleum jelly.

3. Ensure terminal lead connections are tight (Do not over tighten).

Caution There is **NO** requirement to refill with water, therefore **NO** attempt should be made to open the battery or remove the 'fixed' vent cover.

If the Compac is not in use, the battery still requires charging periodically weekly in order to maintain the battery's life. If left for a period of time without charging, the battery will slowly discharge until it cannot be recharged. Therefore, it is recommended that the fuse is removed if the unit is left for a long period.

Note Failure to follow these charging guidelines and evidence of tampering with the battery will invalidate the Warranty.

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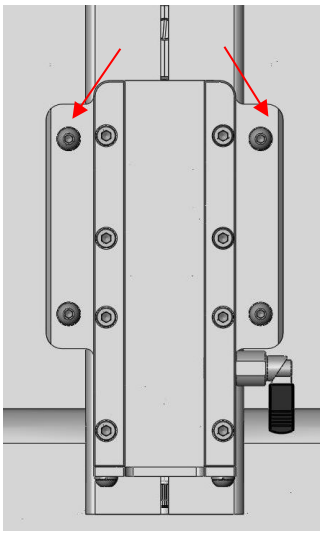
MAINTENANCE (Cont'd)

Maintenance - Carriage Rollers and Ball Screw Replacement

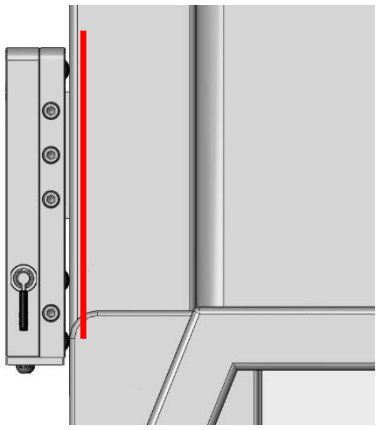


Stabilisers

1. Ensure that all fixings are secure
2. Up to 0.5° movement acceptable (fig.6)
3. Between 0.5° and 1° movement, roller replacement recommended
4. Greater than 1° movement, replace rollers

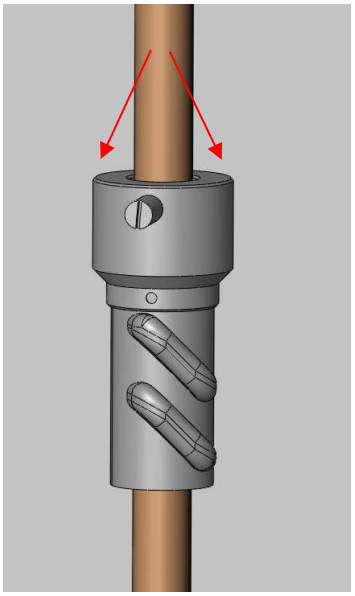
Carriage

1. Ensure that all fixings are secure
2. If gap between carriage and column is 4mm or less this is normal (indicated by the red line in fig.7)
3. If gap between carriage and column is 4 - 5.5mm replacing inner and outer rollers recommended
4. If gap between carriage and column is greater than 5.5mm replacing inner and outer rollers required



Ball Screw Nut

1. If carriage still has play in it after roller replacement carry out the following
2. Remove ball screw and nut
3. Support ball screw at both ends so that the nut can run up and down the screw
4. Fell for tight spots when running nut up and down screw
5. If tight spots found replace nut
6. Listen for abnormal sounds when nut runs up and down lead screw
7. If abnormal sounds heard replace nut
8. Up to 0.25° movement on ball screw acceptable
9. Greater than 0.25° movement replace nut



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SERVICING PROCEDURE

WORK INSTRUCTION

NO:	WI5219	TITLE:	Servicing Procedure Mk5
PURPOSE:			

AMENDMENTS

ISSUE	DATE	APPROVED	SUMMARY OF AMENDMENTS
A			

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CIRCULATION

Destination	Recipient	Sign.	Req.
Packline	General Manager		✓
Admin	Production Assistant		✓
Machining	Cell Co-ordinator		✓
Assembly	Cell Co-ordinator		✓
Design	Designer		✓

Servicing Procedure Mk5.1

WARNING! – It is important that these instructions are followed in the correct sequence. Please read thoroughly before attempting upgrade.

Tools required:-

- 3mm allen key,
- 4mm allen key,
- 5mm allen key,
- 6mm allen key,
- flat-bladed electrical screwdriver,
- 17mm socket, long extension and wrench,
- Large flat-bladed screwdriver,
- Soft-faced mallet,
- Wire cutters,

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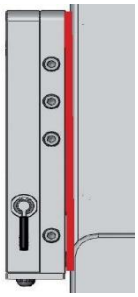
1 PROCEDURE

1.1 **Disconnect Compac from the mains supply before commencing service.**

1.2 Check the outer carriage alignment (gap shown in red in fig.1 should be 4mm or less) then remove outer carriage by removing the 4 bolts as shown in Fig.1 and replace the outer rollers.

Fig.1



1.3 Raise the inner carriage to the top of the column.

1.4 Remove the back cover by removing the 6 button head screws,

1.5 Disconnect battery and then place it away from machine,

1.6 Visually check the welds on the column for signs of cracking.

1.7 Visually check the frame alignment (to check it does not rock on a flat floor),

1.8 Visually check the column front face for signs of severe wear and gouges,

1.9 Visually check the column gap (it should be no more than 5.5mm and be uniform),

1.10 Check that the rear castor brakes function correctly, and that the wheel guards are present,

1.11 The whole unit will now need to be placed in a horizontal position on a bench or suitable work top. The unit will required at least two persons to manoeuvre and lift if carried out manually. (Fig. 2)

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Fig. 2

1.12 Check the condition of the rear and front wheels for signs of wear.

1.13 Check the rear wheel mounts for signs of wear or weld cracks,

1.14 Visually check all connections to PCB are sound and that the PCB is in a good condition and clean,

1.15 Remove 6off bolts retaining motor cover, then remove motor cover,

1.16 Disconnect motor wires from motor and the brake wires (brown) from the PCB.

1.17 Remove and check the condition of the motor brushes,

1.18 Remove 4off bolts retaining motor and then carefully remove motor,

1.19 Disconnect bottom micro-switch cables, then remove bottom micro-switch assembly checking that it is still working smoothly and does not stick and not covered in grease.

1.20 Remove the black plastic cap from the top of the column, disconnect the top micro-switch wires and remove the top micro-switch assembly and check as above.

1.21 Remove the lifting pin via the large hole at the top of the column using a large flat bladed screwdriver and discard.

1.22 Remove the 2off bolts at the top and the 2off bolts inside the cabinet which retain the Leadscrew.

1.23 Remove the Leadscrew and inner carriage from the frame (sliding them out of the top of the frame is the easiest).

1.24 Check the alignment of the inner carriage them replace the column rollers, roller shoulder bolts and connecting plate,

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1.25 Check the condition of the of the bearing mounting blocks and the bearings,

1.26 Check the condition of the keyway on the drive coupling,

1.27 Check the condition of the ball nut, Leadscrew and Leadscrew fixing nuts,

1.28 Clean inside of column before greasing and re-fitting Leadscrew and inner carriage,

1.29 Secure Leadscrew to column ensure Leadscrew turns freely once bolts are tight,

1.30 Fit a new lifting pin to secure inner carriage,

1.31 Re-fit top and bottom micro-switch assemblies,

1.32 Replace black plastic cap,

1.33 Re-fit motor assembly, and drive coupling (**remember to connect brake to PCB**),

1.34 Re-fit motor guard,

1.35 Stand Compac upright and re-fit outer carriage,

1.36 Re-fit battery,

1.37 Carry out function test (ensure top and bottom micro-switches function),

1.38 Carry out a charging test to ensure the battery is holding its charge.

1.39 Re-fit back cover.

1.40 End of service.

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FAULT FINDING

Symptom	Possible Cause / Remedy
Machine does not work:	Are the batteries connected properly and charged? Connect the batteries or put on charge. ***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? 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?
	Are the cables on the right-hand side of PCB Board in the 10-way plug secure?
	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

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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

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

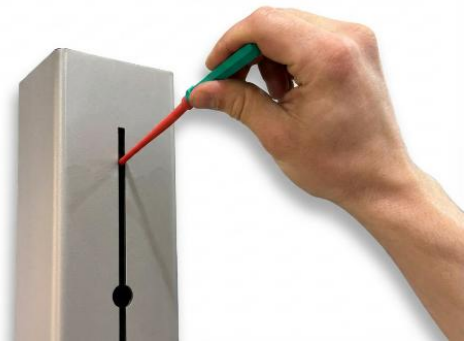
8. Whilst raising the carriage using the controls, insert a thin implement into the column at the top. Close the microswitch by depressing the cam using the implement.

9. Ensure that the carriage has stopped.

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

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

12. 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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COMPAC MAINTENANCE AND SERVICE – PACKLINE

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/

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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

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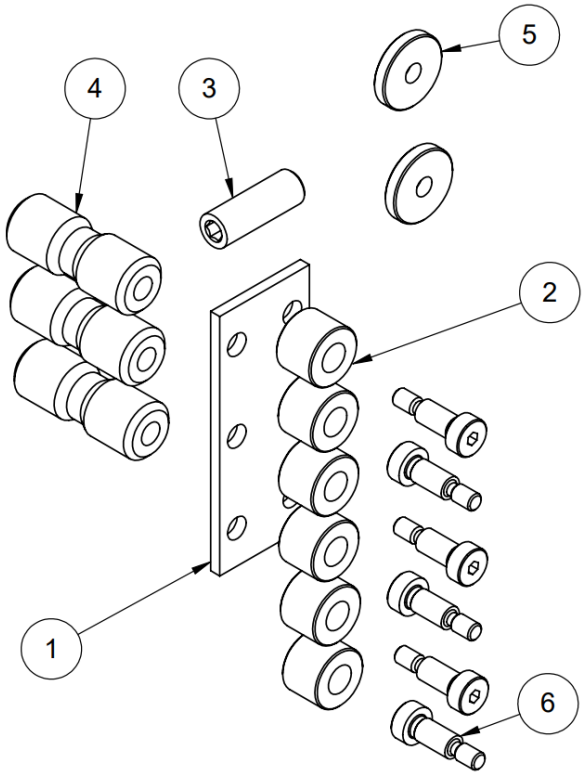

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	7020-1	1	Connecting Plate C150
2	7129-1	6	Column Roller (identical to 7052-1
3	7036-1	1	Lift Pin Mk5
4	7131-1	3	Outer Column Roller
5	7128-1	2	Location Washer
6	B006/048	6	M8 Shoulder Screw x 10d x 16lg

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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.

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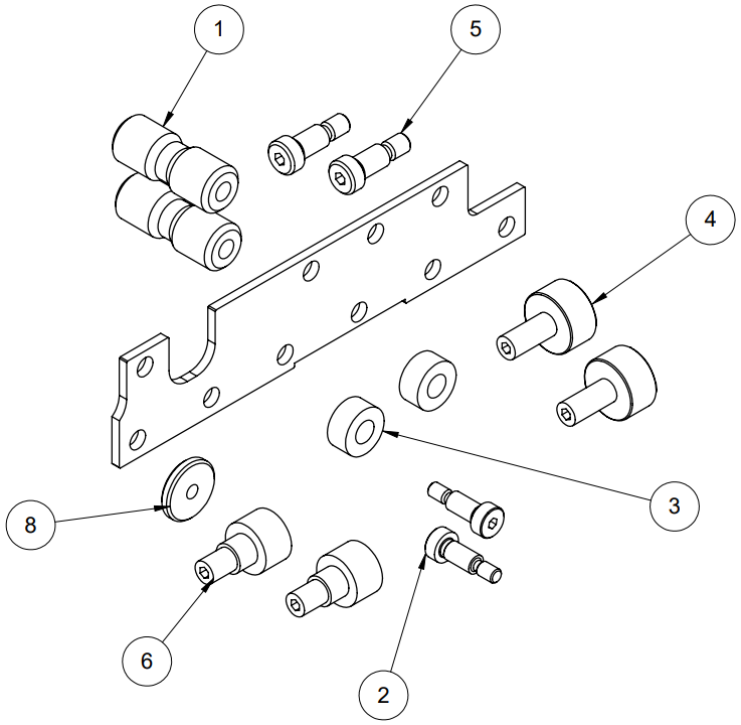

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	7131-1	2	Outer Column Roller
2	B006/048	2	M8 Shoulder Screw 10dia x 16lg
3	2671-1	2	Column Roller Inner
4	B027/001	2	Stud Type Track Roller
5	B006/038	2	M6 x 16 Shoulder Screw
6	B027/004	2	Cam Track Roller 22 dia
7	7381-1	1	Connecting Plate – C300
8	7390-1	1	Stainless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

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