



PLACE
SERIAL
NUMBER
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LIFT-O-FLEX LIFT-N-GO II LIFTER

USER MANUAL

DOCUMENT ID: 06212018

Have Questions?

We're here for you.



+1 866 543 8635
+1 704 847 2464



info@roni.com
www.roni.com



LIFT-O-FLEX

MOBI-Crane



Voyager



RONI
8001 Tower Point Drive
Charlotte, NC 28227 USA

IMPORTANT: READ MANUAL CAREFULLY

Use the equipment strictly as intended to prevent injury or damage. Familiarize yourself with safety guidelines and operational instructions. For any questions or concerns, contact our office promptly.

BEFORE YOU BEGIN



READ

It is important that you read and understand this complete manual prior to using your LIFT-O-FLEX® ergonomic handling equipment. If you have any questions, contact your dealer or Ronl.



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Charlotte, NC 28227 USA

SPECIAL NOTES

The appearance of your LIFT-O-FLEX® lifter and the accompanying attachments may differ from the images displayed in this manual due to the custom nature of this equipment.

LIFT-O-FLEX® is a registered trademark of Ronl, Charlotte, North Carolina.

“Where **Ergonomics** make
Economic sense.”

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1. DESCRIPTION

1.1 OVERVIEW

LIFT-O-FLEX® lifters are ergonomically designed to simplify handling, lifting, and transportation of goods. Each lifting unit can be equipped with different types of load carriers or attachments. The goods to be handled are placed on the load carrier and adjusted to the desired height by pressing the buttons on the hand-held remote control pendant. The lifter is powered by rechargeable, sealed, lead acid batteries. The lift mast is totally enclosed and features a ball screw for smooth vertical DC-powered movement.

1.2 OPTIONS

The LIFT-O-FLEX comes standard with a Powder-Coated Paint/Anodized finish. As an additional option, the LIFT-O-FLEX is also available in Stainless Steel/Anodized finish.

An additional electronic power pack with quick exchange features is available to allow for multishift use.

1.3 ATTACHMENTS

Standard attachments for the LIFT-O-FLEX include a load platform, with or without a stationary or rotating V-Block, a fixed core probe, an Expand-O-Turn Light, and Forks. Custom applications are also available upon request.



← **Platform with V-Block**

Core Probe →



← **Expand-O-Turn Light**

Forks →



2. SAFETY

2.1 BUILT-IN FEATURES

The ergonomic design of the LIFT-O-FLEX is, in itself, an active factor of operational safety. The rear casters are equipped with pedal-activated brakes and the handle bar adjusts vertically to provide optimal ergonomic positioning for the operator. The lift mast contains a slip clutch; if anything gets in the way of the downward movement of the attachment, the slip clutch engages to help prevent injuries as well as mechanical damage to the lifter. We have also incorporated current limiting to prevent overloading beyond the rated capacity for the unit.

2.2 STORAGE AND TRANSPORT

During storage and transport, the remote control pendant and motor cable should be disconnected. The lifter should be secured during transport to avoid the risk of tipping over.

2.3 MOVEMENT

The load carrier should always be lowered as low as possible to ensure safe and stable handling. Use caution when passing thresholds, cords, and other objects on the floor. The handle bar should be gripped in a way so that the hands are not hurt when passing edges, walls, or protruding objects.

2.4 LOADING AND UNLOADING

The user is responsible for ensuring that the lifter is loaded correctly.

Always apply the brakes when loading and unloading.

The center of gravity of the goods should always be centered on the load carrier and positioned as close to the lift mast as possible for maximum stability.

The load carrier should be positioned at the correct height before loading and unloading to allow a good working position. The load should be pushed or pulled on or off of the load carrier.



3. WARRANTY

Limited Warranty

Ronl warrants this product to be free of defects in material and workmanship during the warranty period. Our warranty obligation is to provide a replacement for a defective original part if the part is covered by the warranty, after we receive a proper request from the warrantee (you) for warranty service.

Who may request service?

Only a warrantee may request service. You are the warrantee if you purchased the product from Ronl or from an authorized distributor and Ronl has been fully paid.

What is an “original part”?

An original part is a part used to make the product as shipped to the warrantee.

What is a “proper request”?

A request for warranty service is proper if Ronl receives: 1) a photocopy of the customer invoice that displays the shipping date and, 2) a written request for warranty service that includes your name and phone number. Requests may be sent using the following methods:

Mail

Ronl
8001 Tower Point Drive
Charlotte, NC 28227

Fax

Toll Free 1-866-543-9532
Direct 1-704-847-6739

Email

info@roni.com

What is covered under the warranty?

After Ronl receives your request for warranty service, an authorized representative will contact you to determine whether your claim is covered by the warranty. Before providing warranty service, Ronl may require you to send the entire product, or just the defective part(s), to its facility in Charlotte, North Carolina.

How long is the warranty period?

The warranty period for original dynamic components is one (1) year. For batteries, the warranty period is 30 days. The warranty period begins on the date when Ronl ships the product to the warrantee.



Warranty Evaluation

All parts sent back (freight paid by customer) to Ronl for warranty replacement and/or repair will be evaluated. Ronl will determine if the part is a warranty issue or if it has been damaged due to misuse or negligence. A written report will be issued detailing the investigation of the part and whether or not the part is classified as warranty.

What is not covered by this warranty?

1. Labor
2. Freight
3. Occurrence of any of the following, which will automatically void the warranty:
 - product misuse
 - negligent operation or repair
 - corrosion or use in corrosive environments
 - inadequate or improper maintenance
 - damage sustained during shipping
 - collisions or other incidental contacts causing damage to the product
 - unauthorized modifications: do not modify the product in any way without first receiving written authorization from Ronl as modifications(s) might make the product unsafe to use or could potentially cause excessive and/or abnormal wear

If a defective part is warranted, how will Ronl correct the problem?

Ronl will provide an appropriate replacement for any covered part. An authorized representative of Ronl will contact you to discuss your claim.

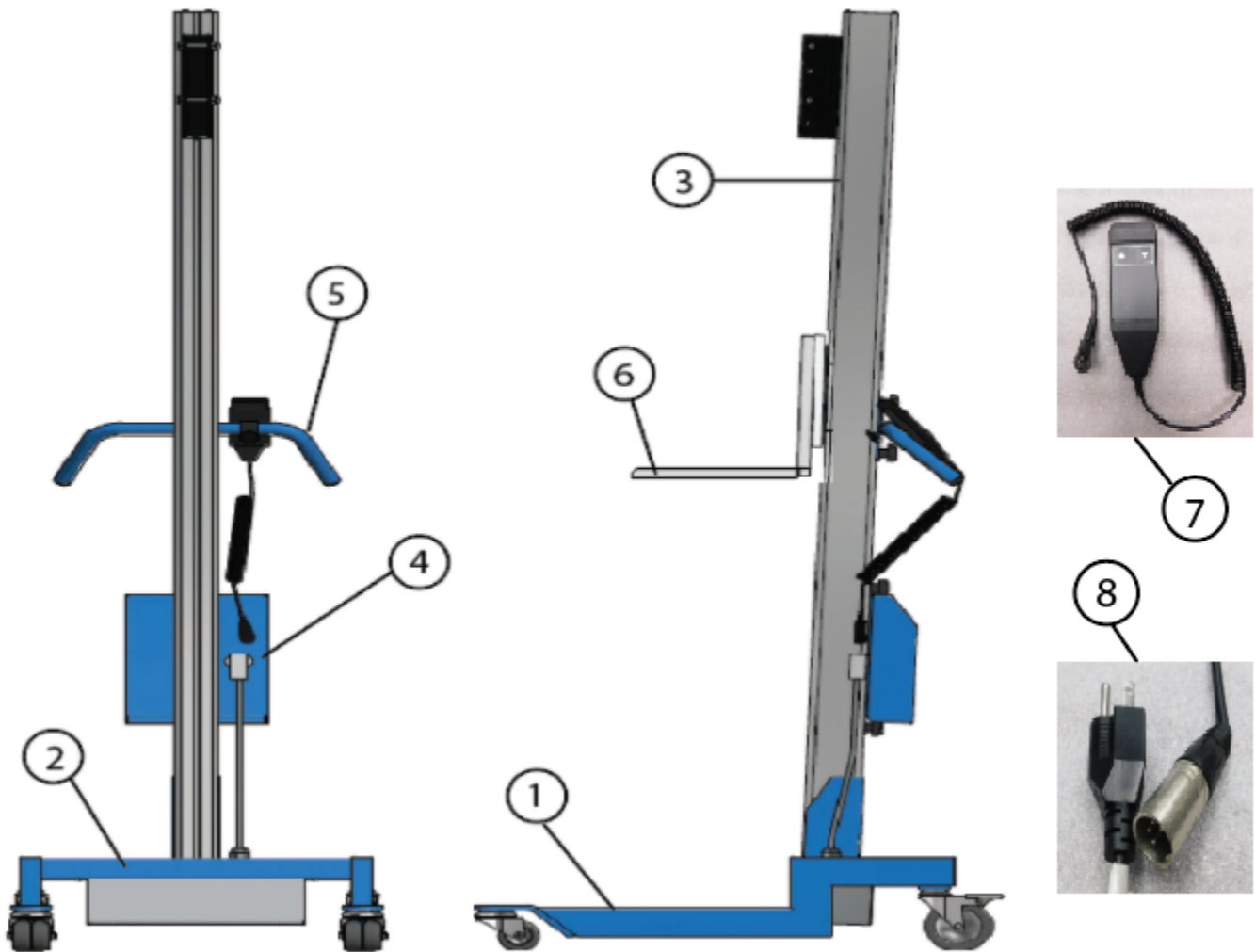
Warranty Procedure

In the event that a part is damaged or broken, please contact Ronl via phone or email to establish a dialogue to identify and diagnose the problem. Please have your lifter serial number available when you call or email.

(Located on the motor cover underneath the intermediate)



4. ASSEMBLY INSTRUCTIONS



The wheel frame and the cross-member are integrated on some models:

- | | | |
|------------------|----------------|----------------|
| ① Lifter leg | ② Intermediate | ③ Lift mast |
| ④ Power pack | ⑤ Handlebar | ⑥ End-effector |
| ⑦ Remote control | ⑧ Charger | |

4.1 ASSEMBLY

Assembly Instructions

1. Place the lifter base (items 1 and 2 which consists of the legs, casters, and intermediate section) onto the floor. The rear casters should be locked into position for assembly purposes.
2. Located at the back of the lifter base on the mast yoke are four nuts. Remove the two cap nuts for later installation. Ease off the other two nuts but do not remove them. This will allow the mast to slide into the mounting slide.
3. Pick up the lift mast (item 3) and carefully insert the mast onto the mounting slide. A mounting slot is provided full length on the rear of the mast. Slide the mast onto the mounting slide until it mates with the coupling located at the bottom of the intermediate section. If the coupling does not sit properly, lift the mast up approximately two inches from the intermediate section. Lift up on the end effector mounting yoke as this will turn the coupling on the lift mast and push the mast into position. An indicator line is provided on each mast that matches the top of the lift mast mounting yoke. This must be aligned for proper operation of the lifter. Tighten up the two bolts on the rear side of the lifter base with the open end wrench (13 mm), but do not overtighten.
4. Pick up the electronic power pack (item 4) and carefully insert the bottom mounting bar into the top of the slot at the rear of the lift mast. Lower the power pack further down the back of the lift mast until the top mounting bar can be installed in the slot. Lower the power pack down the back of the mast until it bottoms out. Next plug in the motor power cable into the marked port of the rear of the power pack. Raise up the power pack until the cable slack has been removed. Tighten both nuts holding on the mounting bar.
5. Take the handlebar (item 5) and slip the mounting slides into the slot at the rear of the lift mast. Slide the handlebar down the mast until a comfortable working height has been achieved and tighten both knobs. Plug the remote controller (item 7) into the back of the power pack into the marked port and place the pendant into the provided holder on the handlebar.
6. Remove the two bolts on the lift yoke and install the end-effector (item 6). After installation, tighten bolts with the 13-mm open-end wrench.
7. The lifter is now ready to operate.



4.2 DISASSEMBLY

To disassemble the lifter, refer to item 4.1 above and reverse the order.

Disposal after useful life

When the lifter has provided many years of use and is ready to be disposed of, it should be recycled. The LIFT-O-FLEX® lifter is manufactured with materials that are recyclable. We have also selected recyclable gel-cell batteries over nickel-cadmium batteries for this purpose.

5. OPERATING INSTRUCTIONS

5.1 USING THE LIFTER

In order to prevent and avoid work injuries, it is important that the LIFT-O-FLEX is operated in a proper manner.

Please note, if a load remains on the lifter for some time, it may be necessary to lower the load before it can be raised.

5.2 ADJUSTING THE HANDLEBAR

The height of the handlebar can easily be adjusted by loosening the quick disconnect knobs and sliding the handlebar to the desired position. After adjustment, tighten the quick disconnect knobs. To obtain the best working conditions, it is important to adjust the handle to a comfortable level. During movement of the lifter, always keep your hands inside the handlebar. This will protect the hands in the event the handlebar should encounter an obstacle. Never put arms through the handlebar to reach something on the load carrier, as this may pose a crush hazard.

5.3 POWER PACK

Modifying the power pack is dangerous. This device may not be sealed in any way. It should not be exposed to splashed or running water.



5.4 REMOTE CONTROL

The load carrier is raised and lowered by pressing the buttons on the hand-held remote control pendant. The remote control has two buttons and is used as shown below.



The remote control should be placed to allow the user to easily press the buttons. The bracket for the remote control is fitted to the handlebar. The bracket can easily be moved by turning the black knob counter-clockwise. The bracket can be locked in any position on the handle by turning the knob clockwise. The bracket can be tilted to any angle on the handlebar. The remote control can be removed from the bracket.

5.5 BRAKE SYSTEM

The LIFT-N-GO II™ utilizes individually-braked wheels. The brakes are applied by pressing down the lever on each of the rear wheels separately.

6. MAINTENANCE

6.1 GUIDELINES

In order for the lifter to function properly, it is important that maintenance is carried out in accordance with what is described below. The stated service intervals are applicable during normal use and charging once a day. Further use requires more frequent service intervals. After disassembly or assembly of the column or load carrier, a load test should be performed.



6.2 EVERYDAY

Charging

Only chargers supplied or approved by Roni may be used.

The charger must not be exposed to water.

The lifter must be in a well-ventilated area when it is being charged.

Always connect the charger to the lifter before connecting to the main power.

Do not operate the device while charging.

The batteries should be recharged every night. In order to avoid complete discharge, which damages the batteries, the batteries should also be charged when the lifter is not used for an extended period of time, e.g. during weekends and holidays.

When the battery charger is connected to the lifter and has power, there is a yellow/orange light on the charger, indicating ongoing charging. When the batteries are fully charged the light is green. The lifter can remain connected to the charger indefinitely without risk of overcharging, preferably until next use.

For lifters with a power pack equipped with a voltage indicator, a flashing bar on the voltage indicator means that the batteries need charging. If the lifter is left unused for 10 minutes, sleep mode is activated and the voltage indicator turns black. The lifter can be restarted by pressing any button on the remote control. When the lifter is restarted from sleep mode after charging, it takes two minutes before the voltage indicator shows if the batteries are fully charged.



6.3 EVERY YEAR, OR WHEN NEEDED

Cleaning

Clean the lifter by wiping it down only. Wipe the lifter dry after cleaning. Do not use hose or high-pressure jet as this may damage the electronics and the paint.

Electrical connections

Check all connections and repair any damage or wear. If needed, replace with new parts.

Wear of machine parts

Check the parts of the machine in order to identify any cracking or wear.

Nuts and bolts

Make sure all nuts and bolts are tightened.

Lift mast

Lift the column from the cross-member.

Clean the brush strips and wipe the column clean.

Remove the four corner screws at the top of the column (not the three in the middle).

Pull out, wipe and lubricate the lift screw with new ball bearing grease.

Put the lift screw back and tighten the screws.

Check the coupling by making sure the sleeve and the hub located inside the column and inside the cross-member are intact and in working order.

Put the lift mast back and perform a load test.

Wheels

Make sure all wheels run smoothly.

Lubricate the bearings.

Check that the tire rubber is intact.

Brakes

Check that the brakes work.

Knobs for handlebar and bracket for remote control

Check that the knobs loosen and tighten correctly.



Replacing the fuse

The fuse is located inside the power pack. A wiring diagram for the lifter is attached to the inside of the lid of the power pack. Before removing the lid, by loosening the screws, the user should apply the brakes and wear protective footwear. Be extra cautious when opening the power pack. If the device is tilted after the lid has been removed, the batteries can slide out of the power pack and harm the user.

Replacing the batteries

Batteries may be replaced by a person with basic technical knowledge. When changing the batteries, protective footwear should be used and the brakes should be applied. To open the power pack, see section above. Used batteries should be handed in to a recycling center.

Plates and decals

Verify that the following plates and decals are attached and fully readable.

Plate / Decal	Description	Placement
CE Decal	Decal with CE mark and year of manufacture	At the back of the intermediate
Serial Number	Decal with serial number	At the back of the intermediate & on the bottom side of the mast
Model	Decal with text stating the model of the lifter	At the top on both the right and left sides of the mast
Maximum Load	Decal with text stating the maximum load and that lifting people is not allowed	At the top on both the right and left sides of the mast
No Feet	Striped decal with an image to warn against placing feet on the legs	On top of both legs
Not for Lifting People	Decal with image showing that lifting people is not allowed	On the top of the intermediate



7. TROUBLESHOOTING

The lifter is designed for safe and efficient operation, provided that routine maintenance is carried out in accordance with the instructions given. If problems arise, some guidance is provided below. If the problem persists after action has been taken, please contact a service technician or Ronl.

If the load carrier does not move or moves very slowly:

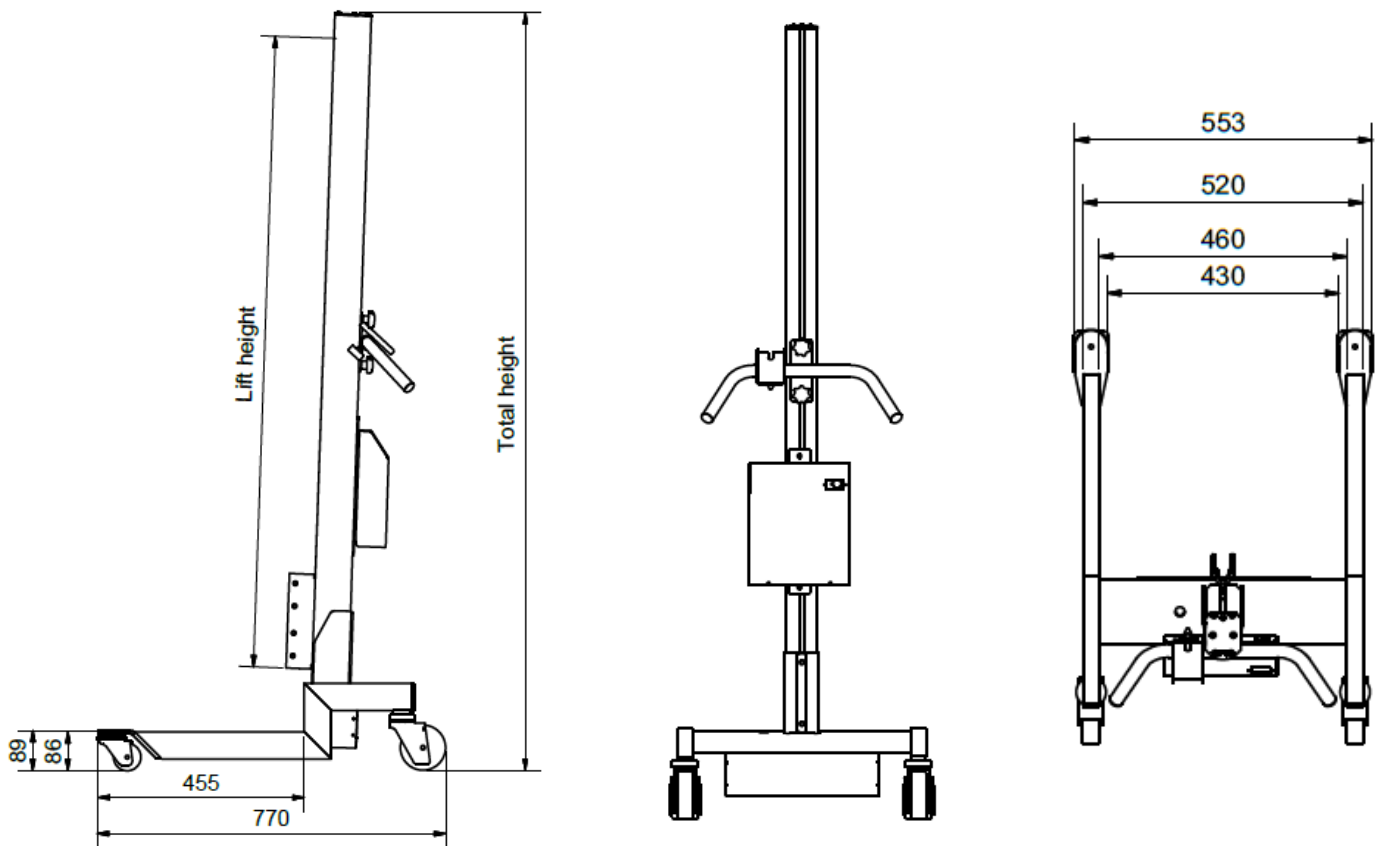
- Verify that the maximum load is not exceeded.
- Charge the batteries.
- Check that the battery charger works. A light should be visible on the charger when plugged into the main power.
- Check if the fuse inside the power pack needs to be replaced.
- Check the battery voltage and replace the batteries if the voltage after eight hours of charging is less than 24 volts.

If the lifter sounds strange:

- Make sure the lifter is correctly assembled, see section Assembly.
- See section Maintenance.



8. TECHNICAL SPECIFICATIONS



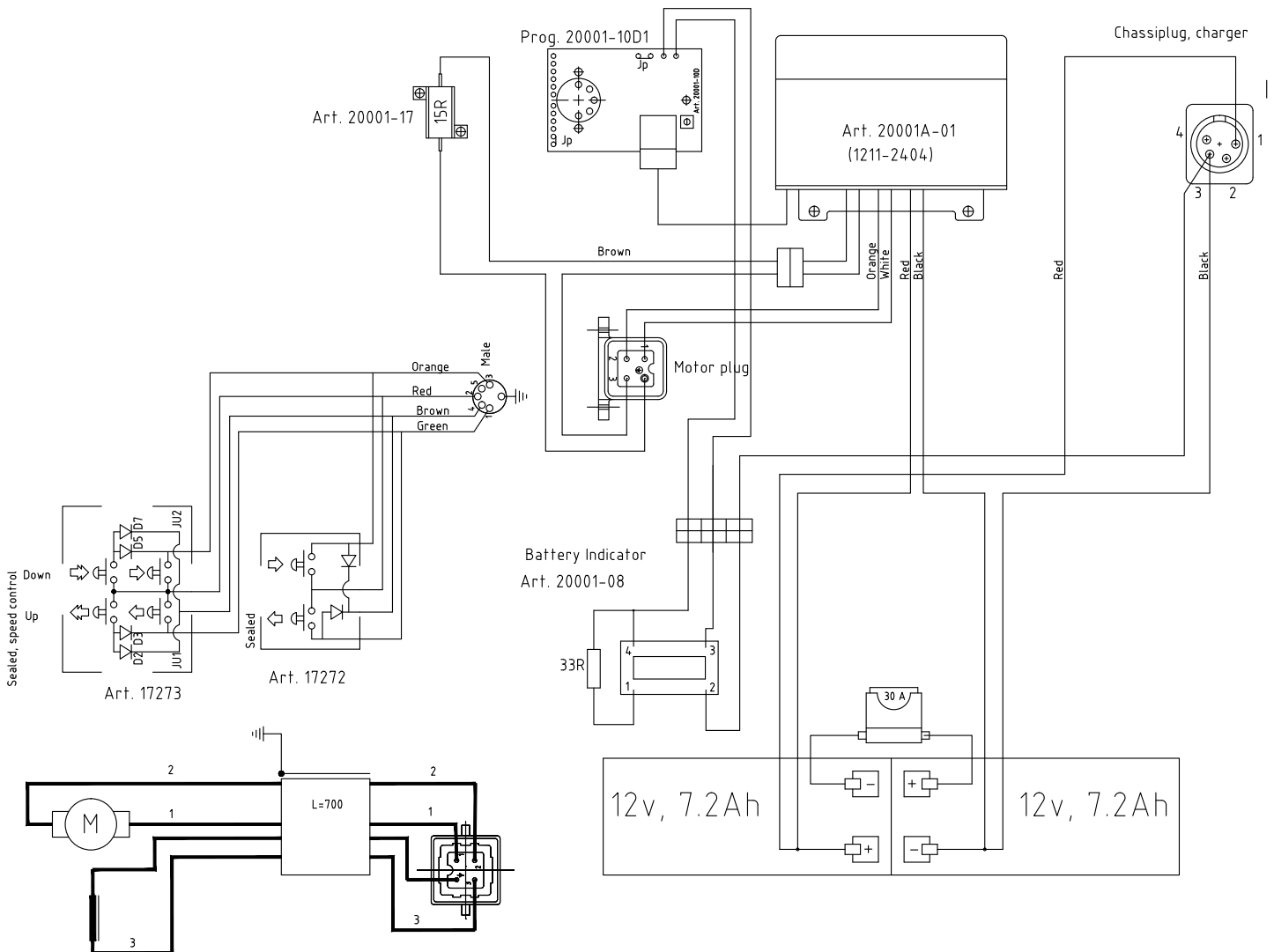
LIFT-N-GO II™	Short Mast	Tall Mast
Lifter Capacity	200 pounds	200 pounds
Minimum Lift Height	4.25 inches	4.25 inches
Maximum Lift Height	56.7 inches	66.6 inches
Total Height	76 inches	85.8 inches
Lifter Weight	90 pounds	90 pounds
Lift Speed	3.5 inches per second	3.5 inches per second
Battery Voltage	24V DC	24V DC
Battery Capacity	7.2 AHr	7.2 AHr
Operational Sound Level	Not to exceed 70 dB(A)	Not to exceed 70 dB(A)
Vibration	Not to exceed 8 ft/s ²	Not to exceed 8 ft/s ²
Test factor for static testing	1.25	1.25

* If the load exceeds 200 pounds, the load carrier will descend slowly.



8. SCHEMATICS

8.1 WIRING DIAGRAM



9.2 SPARE PARTS

Only spare parts supplied or approved by Ronl may be used.

Commonly Ordered Spare Parts

Part Number	Description
17272	Two-button remote control
20001A-01	Curtis Controller
20001-10DR7	Auxiliary Cards / Interface Boards
2403SRL	Battery charger
R7104	Battery set
20053	Lift motor + gear
20011-01	Low built front caster (dual swivel)
15027	Low built rear caster (kick brakes)

**Contact us to
order!**

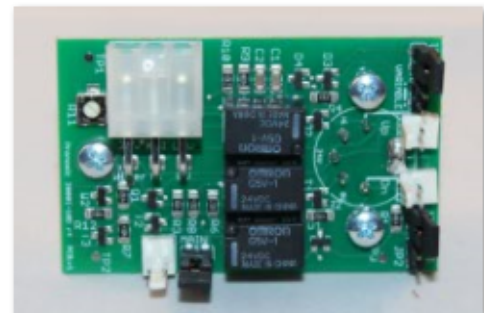
**1-866-LIFT-O-FLEX
(543-8635)
spareparts@roni.com**



When ordering the following two parts please advise your lifter serial # and load capacity



20001A-01 Curtis Controller



20001-10DR7 Aux Card 1

(continued on the next page)



Commonly Ordered Spare Parts



2403SRL Battery charger



R7104 Battery set



20053 Lift motor & gear



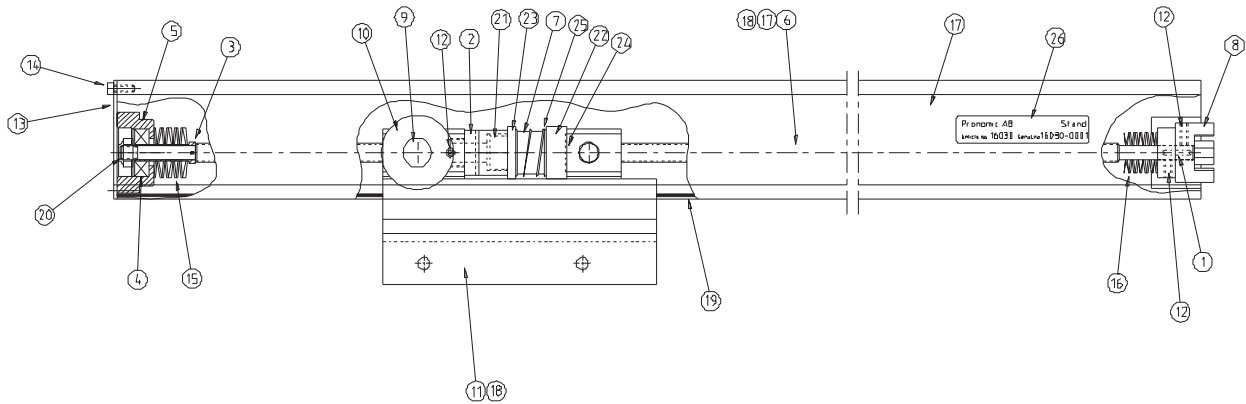
20011-01 Low built front casters; dual swivel;
2.44in



15027 Low built rear caster (kick brakes); full
swivel; 4in



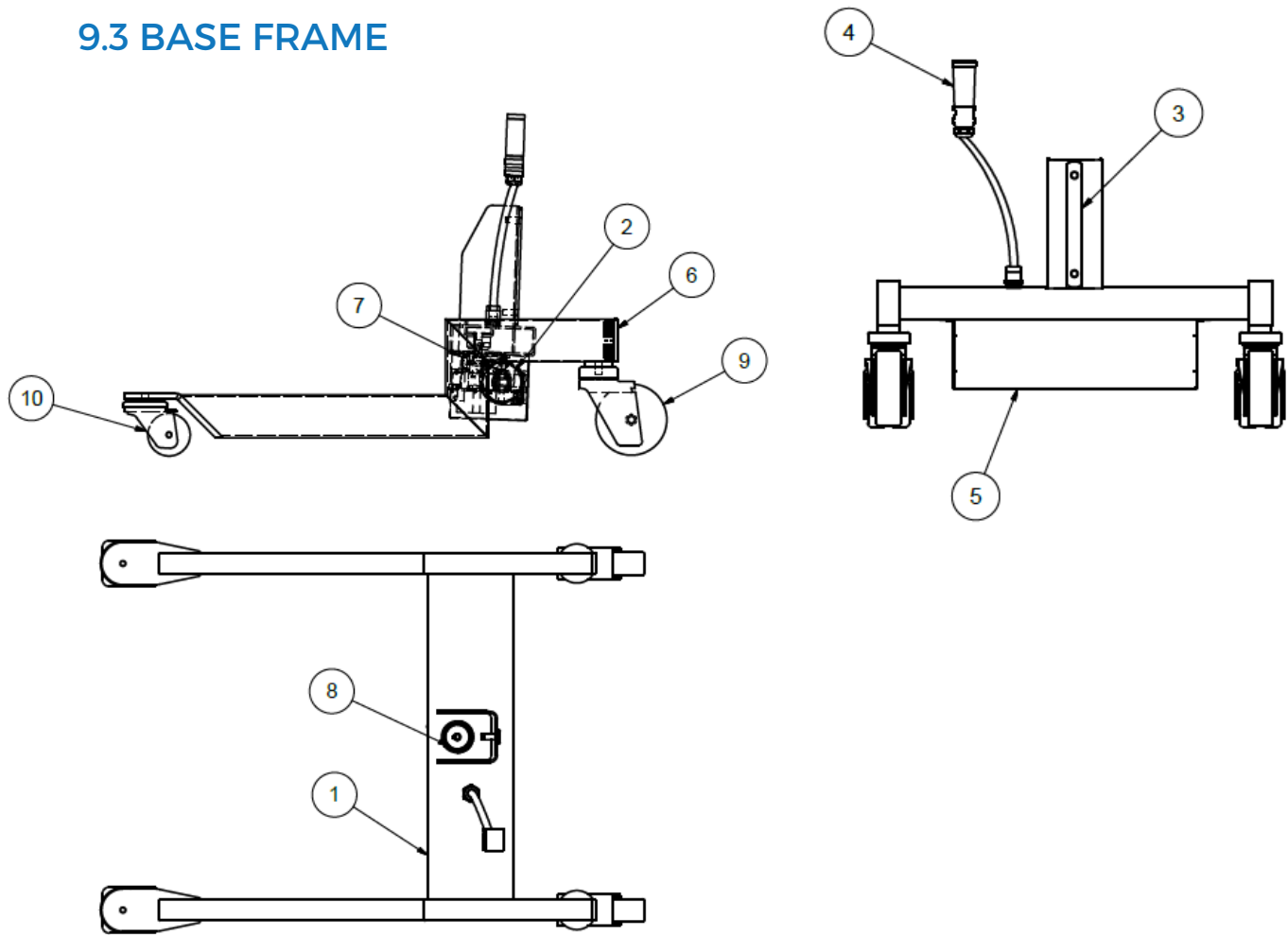
9.3 LIFT MAST



Item	Qty	Description	Part	Item	Qty	Description	Part
1	1	Key 3x3mm L=18	17531	14	4	Screw	MC6S M5x19 BB
2	1	Cap screw	17567	15	9	Bellville washer	34x12.3x1.5
3	1	Spring clip	17529	16	13	Bellville washer	28x10.2x1.5
4	1	Bearing	17520	17	1	Mast profile	Contact R on I
5	1	Pillow block bearing	17521	18	1	Slide (long)	17518
6	1	Ball nut	17522	19	2	Brush strip	Contact R on I
7	1	Ball nut	17523	20	1	Nut	DIN 985 M10
8	1	Coupling	17527	21	1	Screw coupling	17566
9	4	Shaft	17515	22	1	Spring coupling	17568
10	4	Slide wheel	17516	23	1	Spring coupling	17569
11	1	Slide	17517	24	1	Slide washer	17580
12	3	Set screw	SK6SS M6 long	25	1	Spring	17581
13	1	Lid	17000-82	26	1	Label	Serial No.



9.3 BASE FRAME



Item	Qty	Description	Part
1	1	Chassis	15321
2	1	Motor w/brake	20053
3	1	Locking plate, cc=130	16018
4	1	Motor cable for 15000	15108A
5	1	Motor cover for 20000	20030-02
6	2	End cap	15340
7	1	Bracket for motor	16014
8	1	Gear coupling, socket	15102A
9	2	Backwheel w/brake 100x25mm	15027
10	2	Twin front wheel 60x25	20011-01



10. DECLARATION OF CONFORMITY

Manufacturer	Pronomic AB Box 5504 192 05 Sollentuna Sweden
Model	LIFT-O-FLEX; LIFT-N-GO II
Serial Number	
Static load test	

Authorized to compile the technical file	Samuel Pierre, Pronomic AB, BOX 5504, 192 05 Sollentuna, Sweden
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Applied EC directives:

2006/42/EC	Machinery Directive
2004/108/EC	EMC Directive

Applied standards:

SS-EN ISO 12100:2010	Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100:2010)
SS-EN 349+A1:2008	Safety of machinery - Minimum gaps to avoid crushing of parts of the human body

We hereby declare that the above-referenced machine, built and equipped with attachments included in this manual, is in conformity with the applicable conditions state in the directives and standards.

Sollentuna, 2015-12-07



Joakim Stannow, Pronomic AB

The lifter has been modified and/or equipped with attachments as follows:

.....

.....

After modification a supplementary risk analysis has been performed and the machine is certified to be in conformity with the directives and standards above.

.....

Place, date



NOTES





LIFT-O-FLEX

MOBI-Crane



Voyager

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