

# LIFT-N-GO™ II Manual



**Lifter Serial Number:** \_\_\_\_\_  
**Lift Mast Serial Number:** \_\_\_\_\_

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# 1. LIFT-N-GO™ II

LIFT-N-GO™ and LIFT-O-FLEX® are registered trademarks of R on I, Inc., Charlotte, NC.

**NOTE: It is important that you read and fully understand this manual before using your Lift-O-Flex®Lifter. If you have any questions contact your distributor or the manufacturer.**

## GENERAL DATA

Type	<b>LIFT-N-GO™ II</b>
Total Lift Capacity	200-lbs. (includes load weight and end-effector)
Certification	CE Marked
Material	Base Frame - Powder Coat Finish Lift Mast frame - aluminum. End-Effector-stainless steel, 304.
Lifter Weight (excluding End-Effector)	78-lbs.
Weighted average for vibrations during operation	Not to exceed 2.5 m/s <sup>2</sup>
Operational Sound Level	Not to exceed 70 dB (A)
Declaration of Conformity	Delivered with each lifter
Labeling	Manufacturer Year of Manufacture Serial Number

## GOOD WORKING ENVIRONMENT

LIFT-O-FLEX® lifters are produced to ergonomically assist in the handling of material used in production and or processes. By using the LIFT-O-FLEX® lifter, this will help to prevent or eliminate injuries as well as create safer working conditions for personnel. People that already suffer from injuries or have suffered injuries will find that the lifter will enhance productivity. The lifter is designed for use in warehouses, industrial plants, institutional kitchens, drug stores, post offices, etc.

## FLEXIBLE

**LIFT-N-GO™ II** can lift and transport boxes, totes, rolls, etc. up to a weight of 200-lbs. The load on the end-effector is electrically raised and lowered and has a maximum lift height of 48” or 58” (lift height) from the floor.

## OPERATIONAL SAFETY

The ergonomic design of **LIFT-N-GO™ II** is by itself an active factor of operational safety. Other factors of security are a number of technical features, such as:

The movement of the end-effector will stop should an object be placed in-between the lift mast and the end-effector or if other jamming occurs. The lifter cannot be overloaded since it will automatically stop the lifting function if loaded with more than the maximum load of 120 lb. A simple and easily operated foot activated system is installed for locking each rear caster. The **LIFT-N-GO™II** is easy to use in confined spaces and aisle ways due to its compact outside dimensions and large caster wheels that makes maneuvering of the **LIFT-N-GO™ II** simple. The handlebar is designed to protect the operator's hands while maneuvering the lifter.

### **SERVICE**

The service is easy. Modular parts, electronics and batteries are easily accessible for replacement. The manual includes a spare parts list.

### **RECYCLABLE**

The **LIFT-N-GO™ II** is made of recyclable aluminum materials. The **LIFT-N-GO™ II** uses gel-cell batteries, which do not leak gas and require no maintenance and are acceptable for recycling.

## **1.1 Warranty**

Each lifter has a warranty that is valid for one (1) year from the date of shipment. The warranty provides that lifter is free from defects in material and workmanship. The batteries have a standard manufacturers warranty of thirty- (30) days from date of shipment.

The warranty is valid provided the customer completes the maintenance in accordance with this manual. Normal maintenance, calibration or regular adjustments as specified in the operating instructions are the responsibility of the customer.

### **Abuse and/or careless operation will void the warranty.**

This warranty is exclusive and is in lieu of all other warranties, expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose, each of which is hereby expressly disclaimed.

### **Procedures:**

In the event that a part is damaged, broken, or does not work, customer is to contact R on I via phone, fax, or email. A dialogue is needed in order to identify the problem.

RonI will need the following information for warranty issues:

What country is the lifter from?

Lifter serial numbers are located on the motor cover underneath the intermediate beam.

The warranty is only valid providing the customer follows the instruction manual and completes maintenance procedures as described. All normal maintenance, calibration and/or regular adjustments, as specified in the operating instructions, are the responsibility of the customer. Abuse and/or careless operation will void the warranty

The warranty of this lifter is exclusive and is in lieu of all other warranties, expressed or implied. This includes any implied warranty of merchantability or fitness for a particular purpose, each of which is hereby expressly disclaimed.

### **Warranty Evaluation:**

All parts sent back (freight paid by customer) to R on I for warranty replacement and/or repair will be evaluated. R on I will determine if the part is a warranty issue or has been damaged due to misuse or negligence.

A written report will be issued stating RonI's investigation of the part and whether or not the part is classified as warranty.

### **Damaged or Broken Parts:**

It is the responsibility of R on I to maintain sufficient quantities of lifter components in the event that replacement parts are needed. Before shipping a part back for warranty assessment, the customer is to call R on I for a Return Material Number (RMA #). Parts will not be received or accepted without RMA #.

### **Option 1:**

Customer is to return broken part(s) back to R on I for quick assessment and/or repair. R on I will return the repaired part back to customer via UPS Ground at R on I expense.

If it is determined that the part in question is a warranty item, but can not be repaired, R on I will send a new part to customer via UPS Ground, at R on I expense

In the event that R on I determines that the part does not qualify as warranty, customer will be notified and is expected to issue a purchase order for a new part, including shipping & handling.

### **Option 2:**

Customer is to place a purchase order for a new part, R on I will immediately ship the part via UPS Ground, unless a faster way is authorized and paid by customer. The part is to be installed by customer personnel. An invoice will be faxed to the requesting party once the part has shipped. A credit will be issued once the part in question has been received, assessed, and established as warranty.

## **2. Assembly Instructions**

Each lifter is delivered in modules and shipped in cardboard boxes.

### **2.1 Assembly**

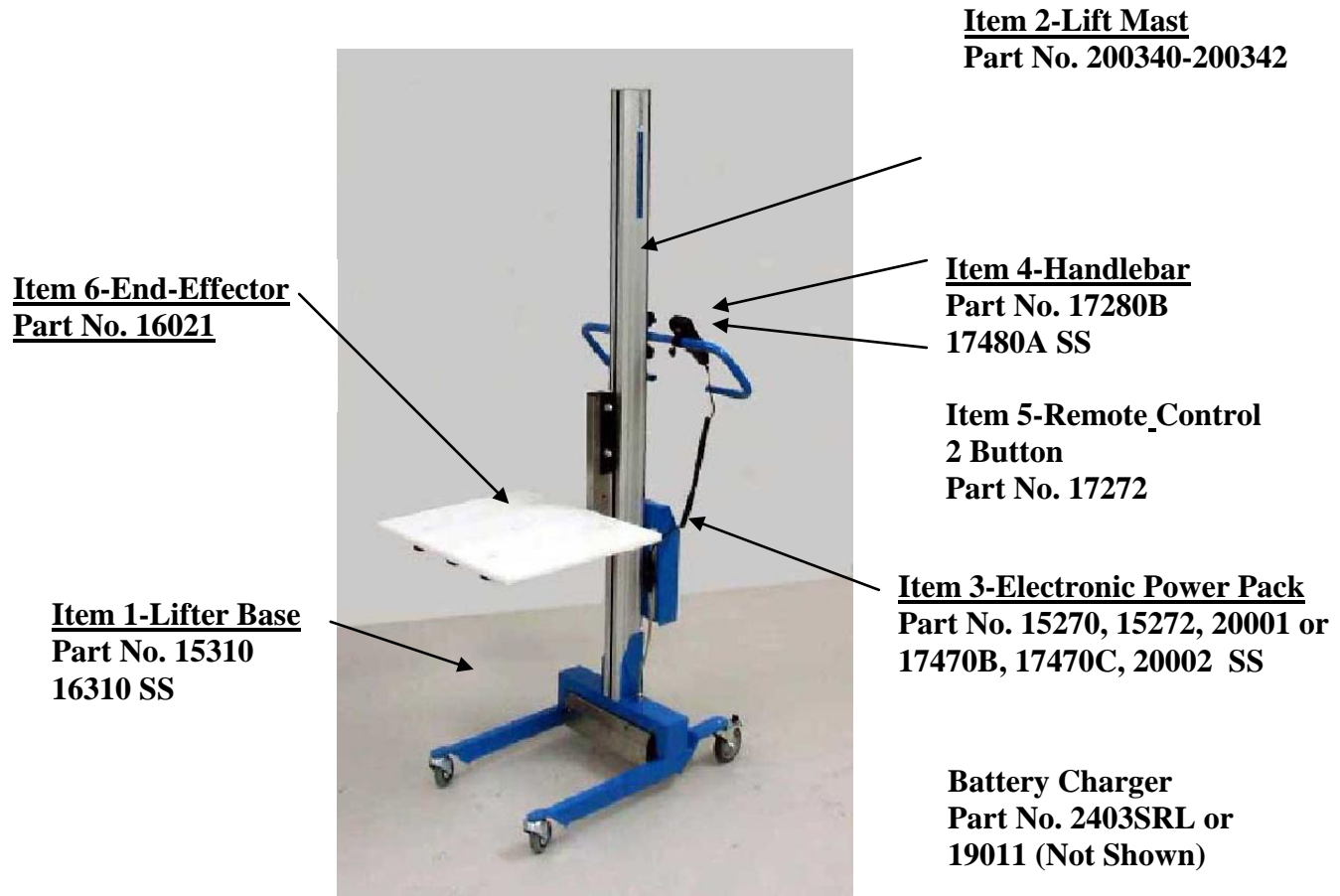
#### **Assembly instructions:**

1. Place the lifter base (Item no. 1 - consists of legs, casters and intermediate section) on the floor. 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 no. 2) 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 coupling located at the bottom of the intermediate section. (If the coupling does not seat properly, lift the mast up approximately 2" from the intermediate section, lift up on the end-effector mounting yoke (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 not too hard.**
4. Pick up the Electronic Power Pack (Item no. 3) and carefully insert the bottom-mounting bar into the top of the slot at the rear of the lift mast. Lower the electronic 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 on 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. Next, take the Handlebar (Item no. 4) 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 handles. Plug the Remote Controller (Item no. 5) into the back of the electronic power pack into the marked port and hand the remote controller on the provided holder on the handlebar.
6. Remove the two bolts on the lift yoke and install the end-effector. After installation, tighten bolts with the open-end wrench (13mm).

The lifter is now ready to operate.

## Lifter Components



## 2.2 Disassembly

To disassemble the lifter, refer to item 2.1 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-N-GO™ II HD II** is manufactured with materials that are recyclable. We have also selected recyclable gel-cell batteries over nickel-cadmium batteries for this purpose.

## 3. Operating instructions

### 3.1 Operating

In order to prevent and avoid work injuries it is important that the **LIFT-N-GO™ II HD II** is operated in a proper manner.

#### 3.1.1 Charging

Gel-Cell batteries cannot withstand total discharging and need to be recharged after use every day. The battery charger supplied with the lifter connects to an ordinary electrical wall outlet and allows for recharging the batteries. **The plug in for charger connection is located at the rear of the electronic control module and is labeled. Do not plug in the charger into any other ports than the one labeled.**

Properly connecting the electronic power pack is simple and easy.

- First, plug in the charger cable into the electronic power pack into the labeled port.
- Second, plug the charger into the electrical wall socket-110VAC.

#### **DO NOT OPERATE THE LIFTER WHEN CHARGING THE BATTERIES-THIS WILL VOID THE WARRANTY**

When the battery charger is connected to the lifter and plugged into the wall outlet, both the green and the red lights come on simultaneously. After a few seconds the red light stays on, showing that the charging procedure is taking place. When the batteries are about fully charged the yellow light goes on which gives the battery a “Balancing Charge” to top off the charge cycle. Generally, the Charge State reached at the “Balancing Charge” is 80%-95% of total charge capacity of the battery. The green light indicates that the battery is fully charged.

Note: The battery charger will not overcharge the batteries. The electronic card used on the lifter will not allow for total discharge of the batteries. Continuous lifter use will not hurt the batteries.

Red lamp = Charger is connected to power supply and charging battery.  
Yellow lamp = Balancing Charge-Charging battery at 2.7 Amp.  
Green lamp = Battery fully charged

The batteries will not leak and are maintenance free (24 volt, 7.2 AHr-Standard).

The lifter should be recharged every night, over weekends, holidays and after prolonged periods without use, or the batteries will lose the capability of being recharged. This will ensure that the batteries can achieve a maximum charge and that they will handle the lifts required during the working day.

#### 3.1.2 Handles

The height of the handlebar can easily be adjusted by loosening the quick disconnect handles and sliding the handlebar to the desired position. After adjustment, tighten the quick disconnect handles. To obtain the best working conditions it is important to adjust the handle to a comfortable level. During movement of the lifter, always keep hands inside the handle. This will protect the hands if the handlebar should encounter an obstacle.



### 3.1.3 Lifting

**Important!**  
**The maximum lift capacity is limited to 200 lb.**  
**The lifter is not to be used for personnel transportation.**

Place your **LIFT-N-GO™ II** in the working area. Make sure to always apply the brakes before loading or unloading the end-effector. To apply the brakes, push the brake lock detent down on each rear caster.

Be certain that the end-effector is placed on the same level as the object being loaded. To adjust the elevation of the end-effector, use the buttons on the control panel. The pressing on the top of the toggle switch the end-effector is raised, by pressing on the bottom of the toggle switch, the end-effector will lower.

Place the load on the end-effector. Position the load in the center to ensure stability and towards the back of the end-effector.

When loading different items raise/lower the end-effector to the correct elevation, making it easy to push or pull the items on or off the end-effector.

### 3.1.4 Transport

**The end-effector should always to be lowered to the lowest possible position before moving the lifter.** Unlock the rear caster brakes by depressing the unlock detent on each rear caster. All four wheels can now swivel in any direction.

## 3.2 Troubleshooting

The **LIFT-N-GO™ II** has been designed to operate safely and effectively provided that maintenance procedures are followed according to the instruction manual. Find below a guide for troubleshooting. Should the problem persist, contact R on I, Inc. in Charlotte, NC.

#### Symptom

#### Action

- |   |  |
|---|--|
| <b>1. The lifter does not run at all.</b>                                 | A) Check the voltage of the battery (18 Volts).<br>B) Inside the control panel where the batteries are located is a 20-ampere fuse (T16L-250V). Check that it is intact and operable.<br>C) Check that the connections to the battery charger have been connected properly during recharge.<br>D) Check the lights on the battery charger.<br>See above 3.1.1 Charging.<br>E) Check that the maximum load is not exceeded. |
| <b>2. The end-effector cannot be lowered or raised but the motor runs</b> | A) Check that the mast is positioned correctly in the intermediate section. See above 2.1 Assembly   |

3. **The end-effector moves at a slower speed than normal**                      A) See above 1A, 1C and 1D.
4. **When lifting there is a strange sound and/or the lifter operates differently than usual.**                      A) Attend the prescribed actions under 3.5 Maintenance

### 3.3 Maintenance

Regular maintenance is important to protect the continued use of the **LIFT-N-GO™ II** lifter.

#### Daily maintenance

Wipe the lifter with a detergent suitable for japanned surfaces, aluminum and stainless steel. Follow the instructions on the detergent. Wipe the lifter dry. **Do not use a high-pressure hose. It could damage both the electronics as well as the chassis.**

The batteries are to be charged every night or when the lifter is not being used for a long period of time. **The batteries cannot be "over charged".**

#### Every 6-month maintenance

Electrical connections: Check all connections and have any items that show wear or damage repaired. Replace if needed.

Bolts and screws: Check that all bolts and screws are tight.

Lift mast: Take the mast out of the base frame. Wipe it clean and lubricate it with ball bearing grease. When the mast is out of the intermediate section the bristles in the mast are to be taken out from the bottom of the mast and cleaned. At the same time the screw can be lubricated with ball bearing grease. Assemble the mast, see 2.1 Assembly, and check that the end-effector is operating properly.

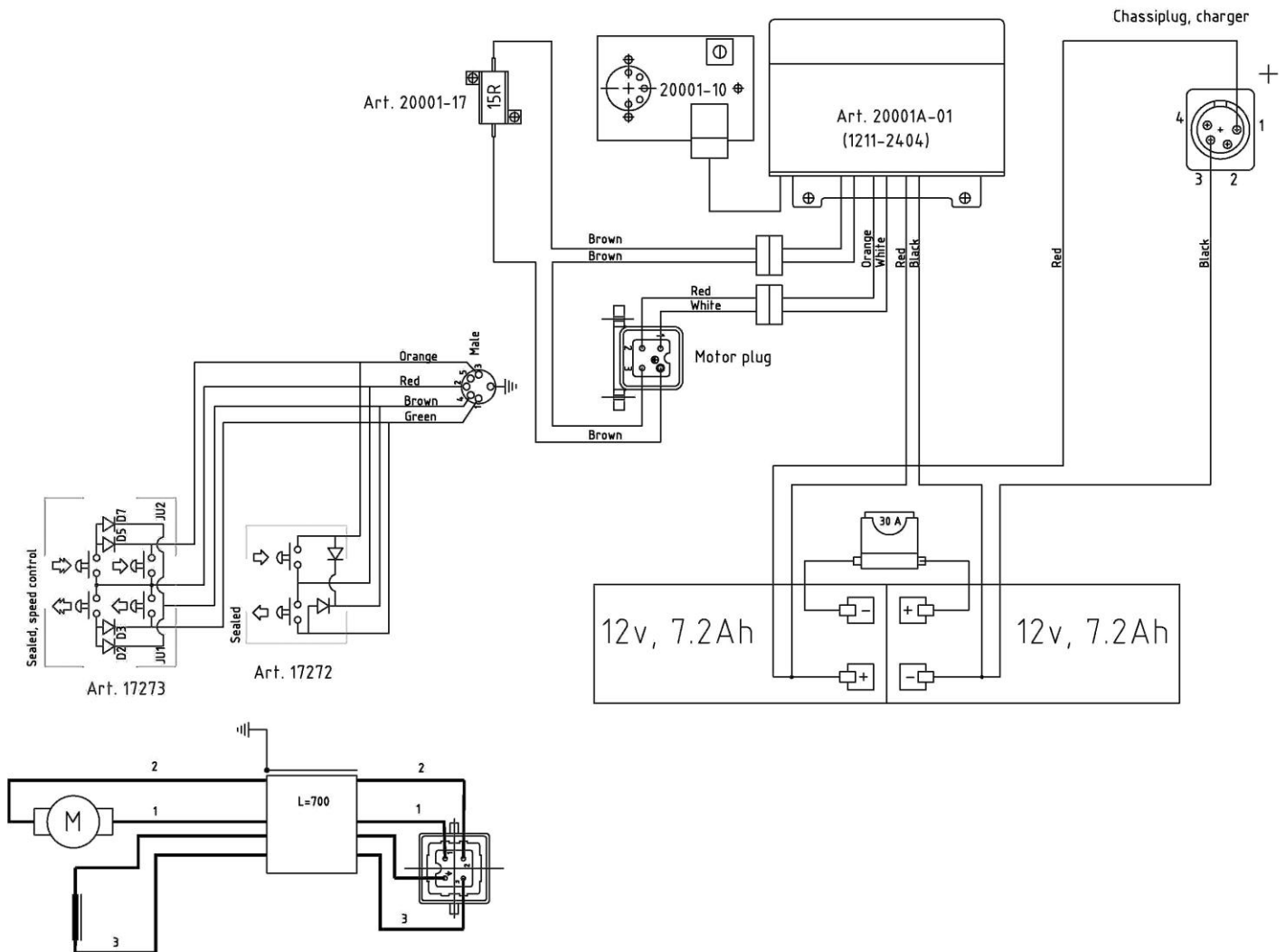
Wheels: Check that all wheels run smoothly and lubricate the ball bearings regularly. Check that the wheel rubber is not worn or damaged.

Brake system: Check that brake positions are operating properly:

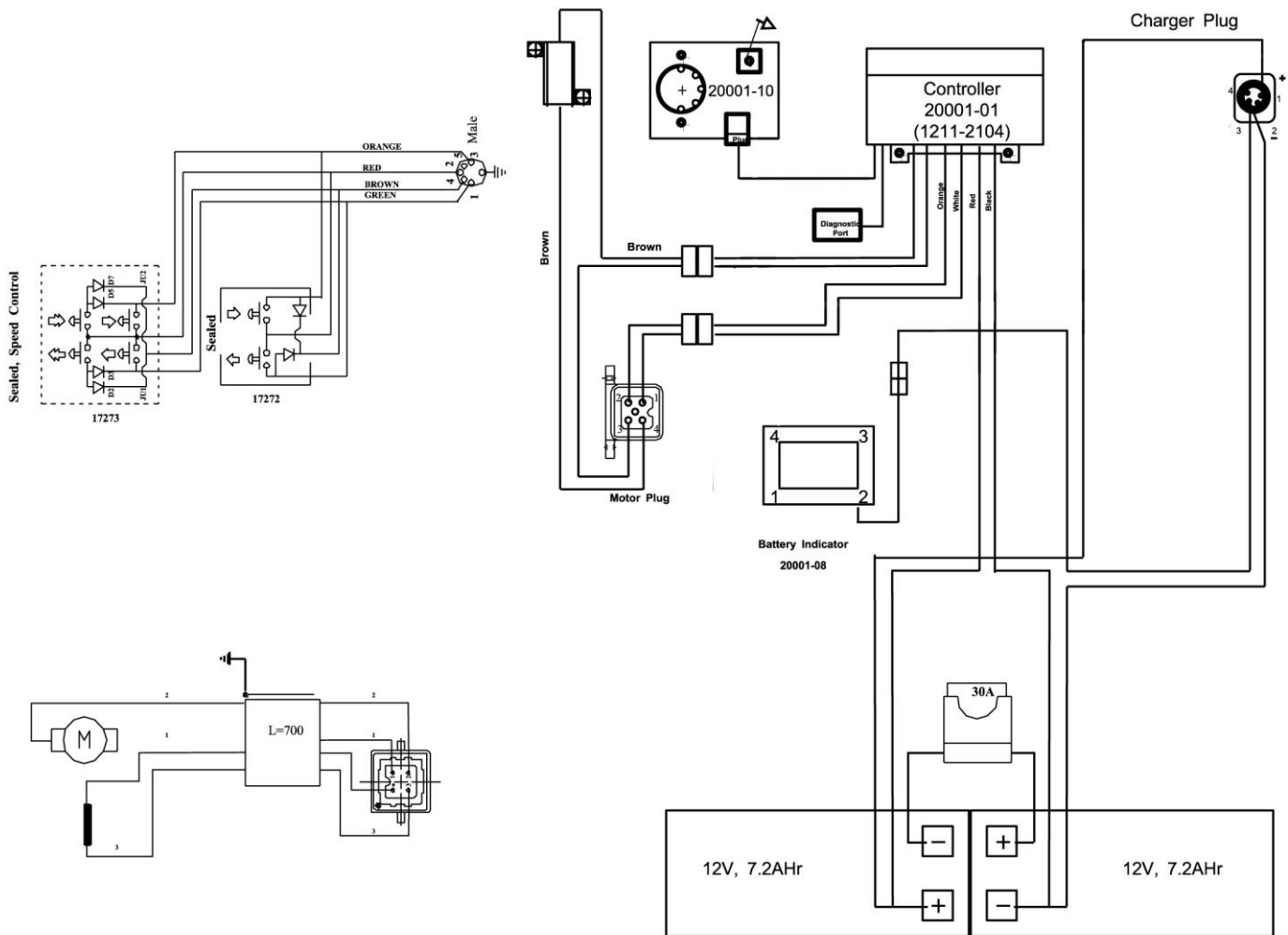
Identification and warning signs: Check that the signs are well attached and can be read. They are mounted for your safety.

## 4. Lifter Components

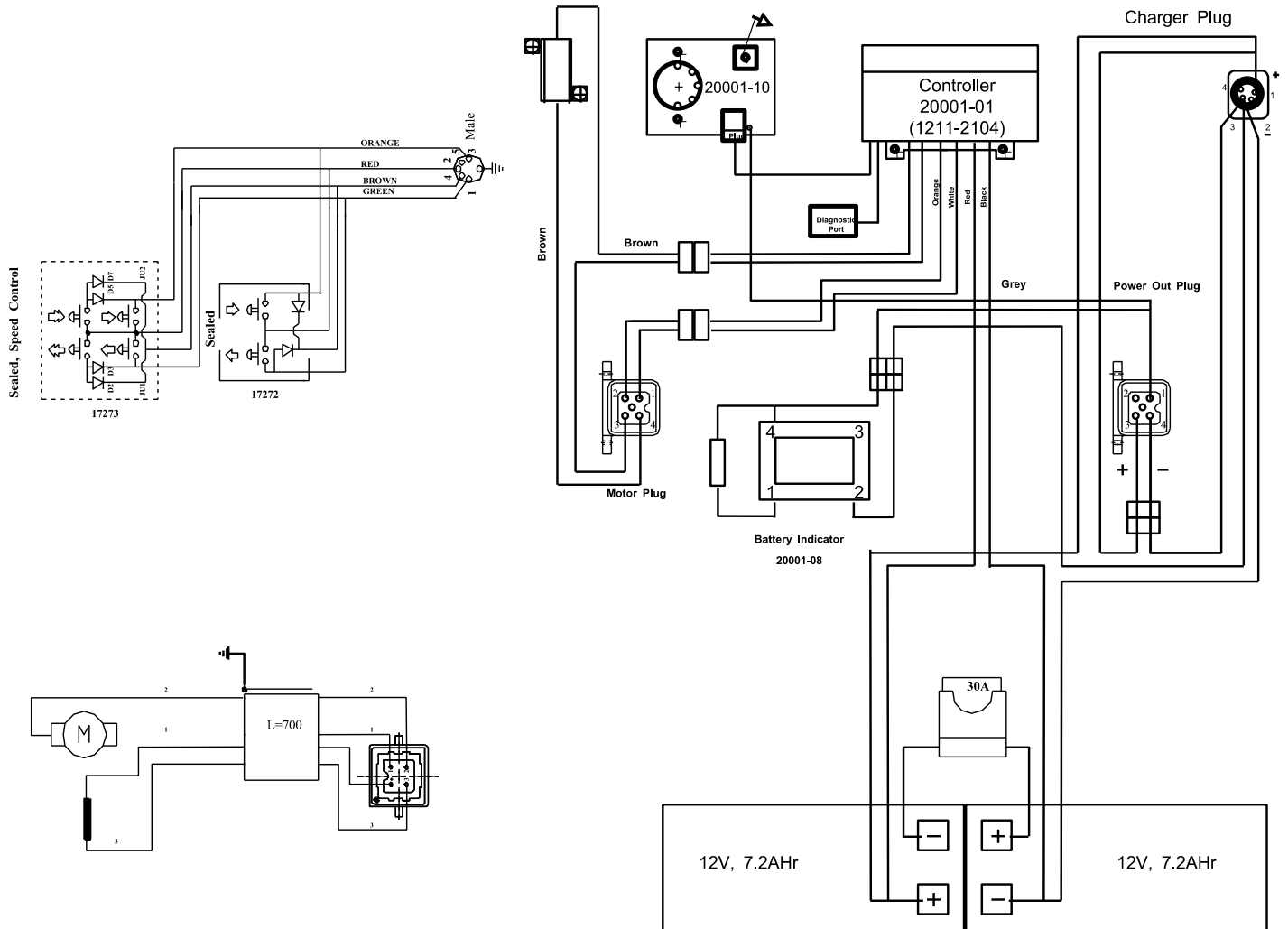
### 4.1 Wiring of Electronic Power Pack-Part No. 15270 and 17470B (No Power Out Port)



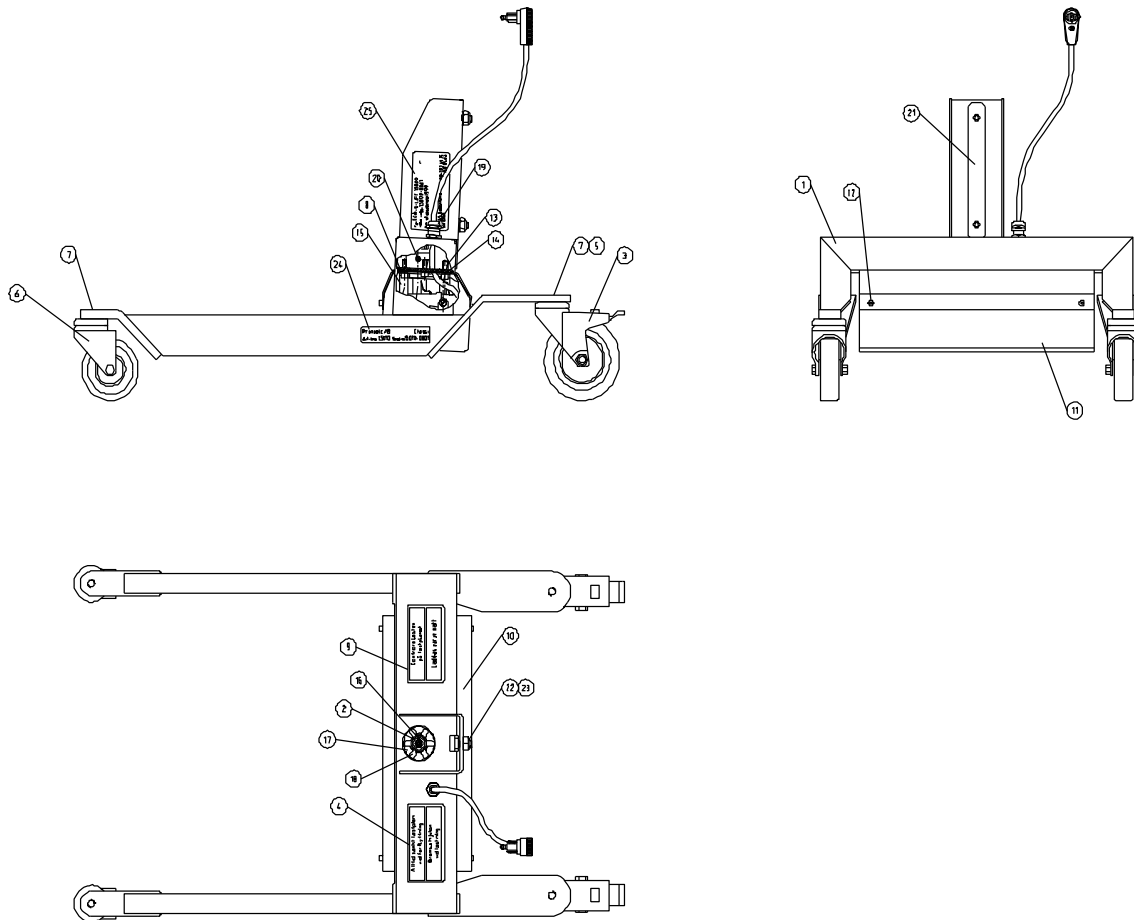
# 4.1A Wiring of Electronic Power Pack-Part No. 15272 and 17470C (Battery Charge State Indicator-No Power out Port)



# 4.1B Wiring of Electronic Power Pack-Part No. 20001 and 20002 (Battery Charge State Indicator-Power Out Port)

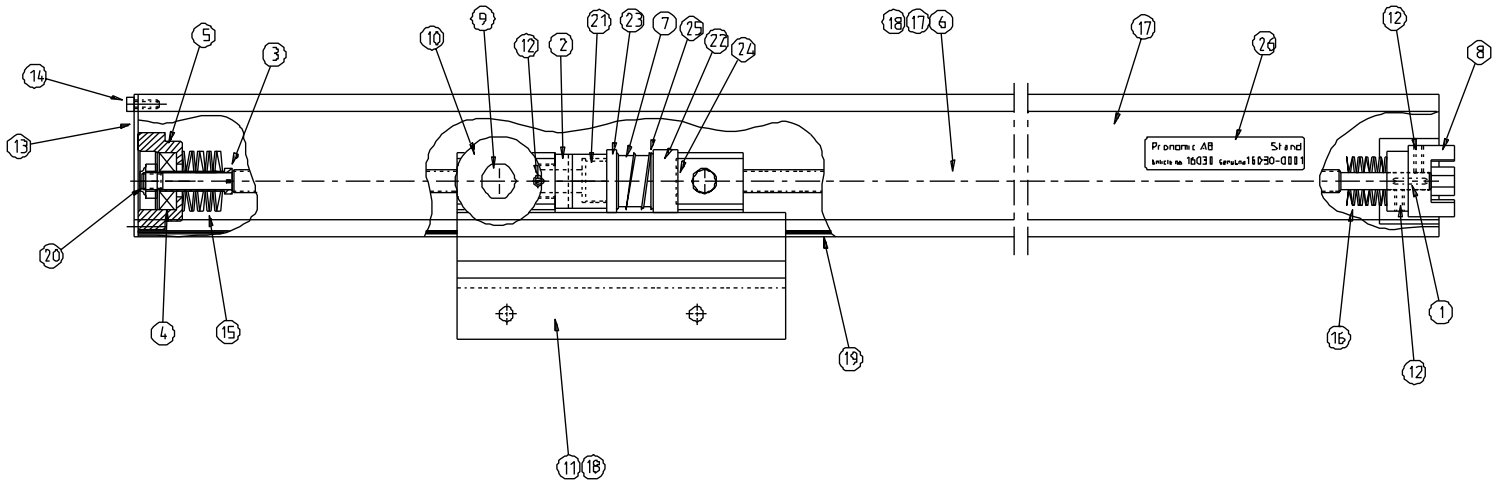


## 4.2 Base Frame



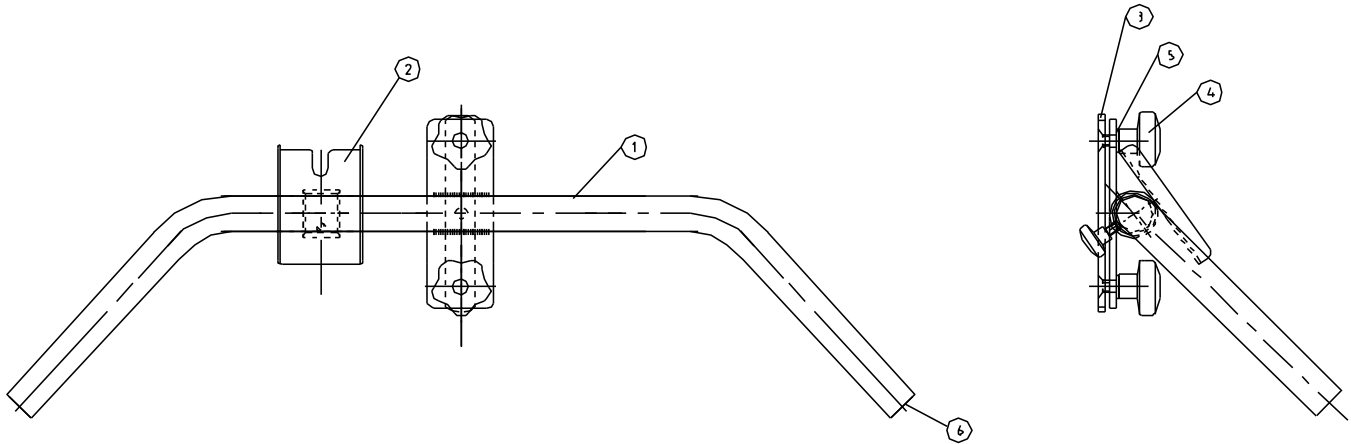
13	5	Screw	MC6S M6x16 BB				
12	4	Screw	MC6S M4x10 BB	25	1	Label	Lifter Serial No.
11	1	Motor Cover - Bottom	16013	24	1	Label	Serial No. Frame
10	1	Motor Cover - Top	16012	23	2	Jam Nut	LASM DIN 985 M8
9	1	Label		22	2	Washer	BRB 8.4 HB 200
8	1	Motor Bracket	16014	21	1	Locking Plate	16018
7	4	Screw	MC6S M10x16 A4-80	20	1	Set Screw	SK6SS M6
6	2	Front Caster	18108	19	1	Grommet	16016
5	2	Washer	BRB fzb 10x18x2	18	1	Plastic Coupling 19-92	17551
4	1	Label		17	1	Plastic Coupling 19 ALU	17550
3	2	Rear caster	18107	16	1	Key 3x3.7 DIN 6888	18118
2	1	Spacer	17174	15	1	Motor 404-311	17344
1	1	Frame	15310	14	3	Screw	MF6S M6 x 20 fzb
<b>Item No.</b>	<b>Qty</b>	<b>Description</b>	<b>Part</b>	<b>Item No.</b>	<b>Qty</b>	<b>Description</b>	<b>Part</b>

### 4.3 Lift Mast



13	1	Lid	17000-82	26	1	Label	Serial No.
12	3	Set Screw	SK6SS M6 Long	25	1	Spring	17581
11	1	Slide	17517	24	1	Slide Washer	17580
10	4	Slide Wheel	17516	23	1	Spring Coupling	17569
9	4	Shaft	17515	22	1	Spring Coupling	17568
8	1	Coupling	17527	21	1	Screw Coupling	17566
7	1	Ball Nut	17523	20	1	Nut	DIN 985 M10
6	1	Ball Nut	17522	19	2	Brush Strip	Contact RonI
5	1	Pillow block Bearing	17521	18	1	Slide (Long)	17518
4	1	Bearing	17520	17	1	Mast Profile	Contact RonI
3	1	Spring Clip	17529	16	13	Bellville Washer	28x10.2x1.5
2	1	Cap Screw	17567	15	9	Bellville Washer	34x12.3x1.5
1	1	Key 3mm x 3mm L=18	17531	14	4	Screw	MC6S M5 x 19 BB
<b>Item No.</b>	<b>Qty</b>	<b>Description</b>	<b>Part</b>	<b>Item No.</b>	<b>Qty</b>	<b>Description</b>	<b>Part</b>

## 4.4 Handlebar



**Part No. 17280B**

Item No.	Qty	Description	Part No.
1	1	Handle	17280-02
2	1	Remote Control Holder	17255
3	1	Locking Bar	19134
4	2	Knob	40-6-M8
5	2	Washer	BRB 8.4 HB 200fzb
6	2	Plug	22Ø



## 5. Declaration of Conformity

### Referring to Directive for machines 89/392/EEC with addendum - appendix 2A

**Supplier:** RONI, INC, 8001 Tower Point Drive, Charlotte, NC 28227  
Address

**Description:** LIFT-N-GO™ II

**Regulations:** AFS 1993:10 (89/392/EEG) AND (91/368/EEG)  
Regulations that the lifter complies to.

**Standards:** EN 292-1, EN 292-2, EN 294, EN 60204-1, EN 349  
(when applicable) Applicable harmonized standards  
**IKH 4.30.01 utg 3, SMS 2986**  
Applicable national standards and specifications

The item above hereby is assured to be in compliance of the fundamental requirements as stated in the Directive for machines 89/392/EEC with addendum, respectively be in compliance with the machine that has gone through Common market control by an institution as above.

**Signature:** John Helbert