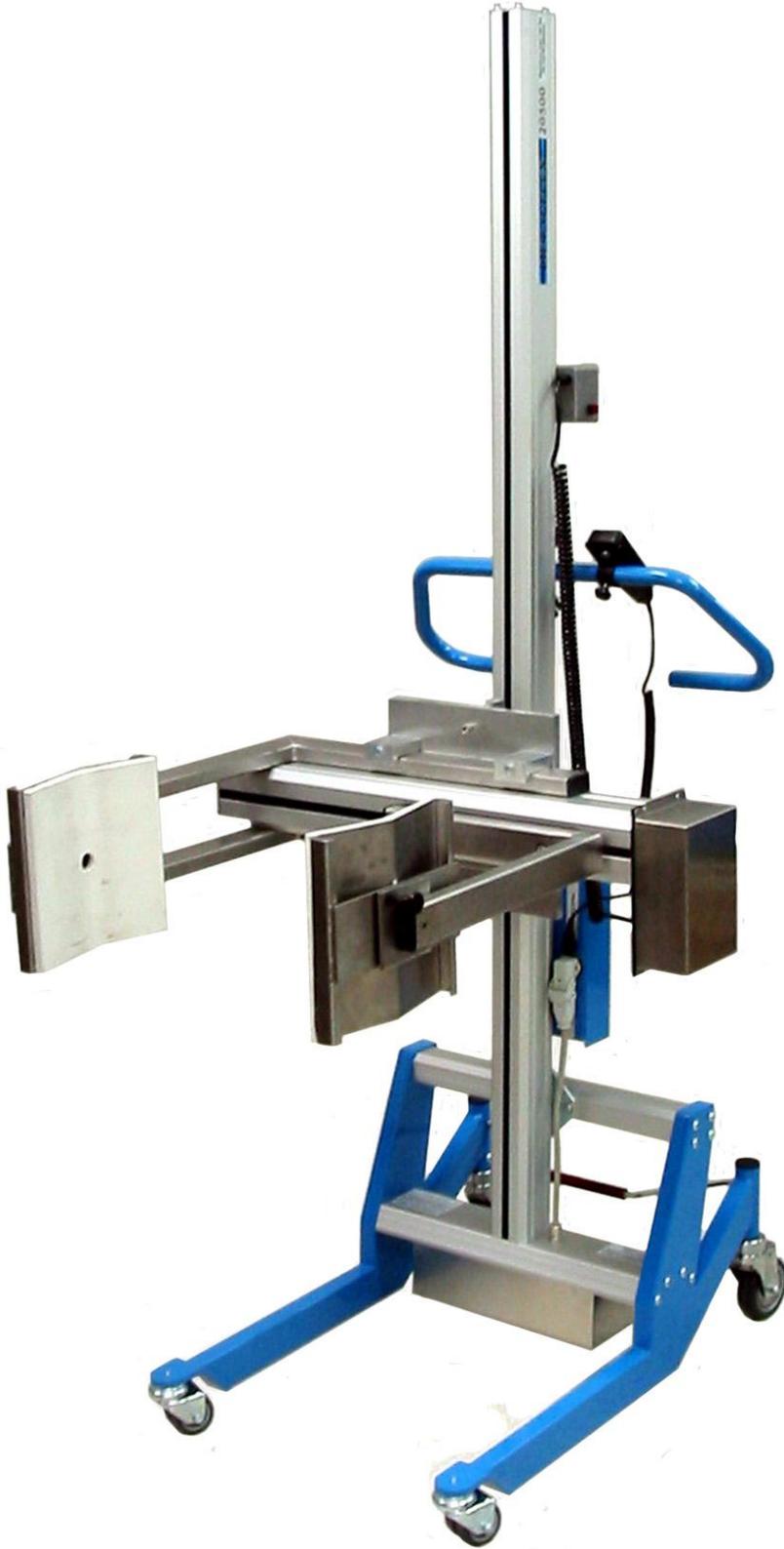


**Lift-O-Squeeze™**  
**For Lift-O-Flex® 20000 and 19000 Series Lifters**



**Lift-O-Squeeze™**

Rev. 10/16

**Lift-O-Squeeze™**  
**For Lift-O-Flex® 20000 and 19000 Series Lifters**  
**MANUAL**

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# Lift-O-Squeeze™

## For Lift-O-Flex® 20000 and 19000 Series Lifters

### 1. Lift-O-Squeeze™

NOTE: It is important that you read and fully understand this manual before using your **Lift-O-Squeeze™**. (If you have any questions contact your distributor or manufacturer).

#### GENERAL DATA

**Type:** 12126 Lift-O-Squeeze™ for 20000 Series Lift-O-Flex® Lifters  
**Total Capacity:** 200-lbs. Load Weight  
**Material:** Stainless Steel  
**Weight:** Approximately 60-lbs.

**Type:** 12126 Lift-O-Squeeze™ for 19000 Series Lift-O-Flex® Lifters  
**Total Capacity:** 350-lbs. Load Weight (Depending on product being handled a 600-lbs capacity can also be achieved).  
**Material:** Stainless Steel  
**Weight:** Approximately 75-lbs. without gripper arms

#### GOOD WORKING ENVIRONMENT:

The **Lift-O-Squeeze™** (used in conjunction with the **LIFT-O-FLEX®** Lifter) is provided to assist in handling loads that require clamping, lifting and rotating. The unit provided will also help to prevent injuries as well as create safer working conditions for people that already suffer from injuries related to the moving of heavy objects. The lifter with **LIFT-O-SQUEEZE™** is designed to be used in warehouses, industrial plants, institutional kitchens, drug stores, post offices, etc.

#### FLEXIBLE:

The **Lift-O-Squeeze™** can be provided as either a complete unit on a new lifter or retrofitted to an existing lifter should your requirements change after your original lifter has been in service.

#### *1.1 Warranty*

The warranty on the lifter equipment is valid for one (1) year from the date of shipment. It warrants the lifter to be free from defects in material and workmanship. A standard manufacturers warranty comes with the batteries.

For the warranty to be valid all maintenance according to the instruction manual must have been carried out. This warranty does not cover normal maintenance, calibration or regular adjustments as specified in the operating instructions.

Abuse and/or careless operation will make this warranty invalid.

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.

# Lift-O-Squeeze™

## For Lift-O-Flex® 20000 and 19000 Series Lifters

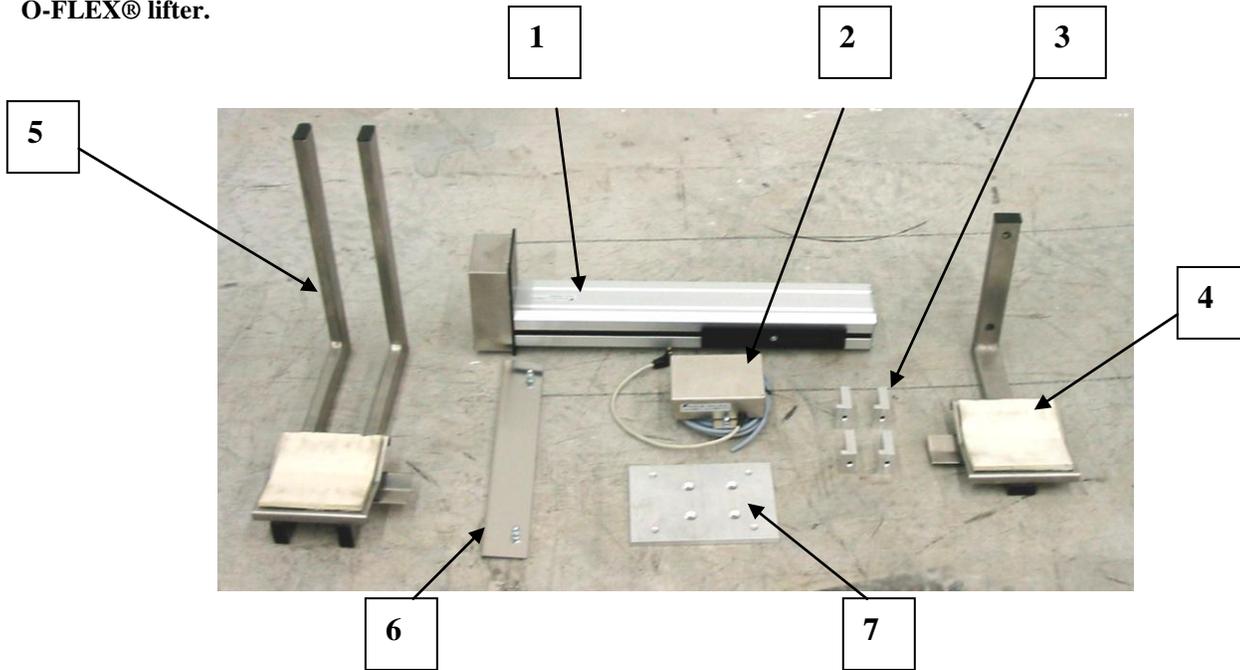
### 2. Assembly Instructions

The Lift-O-Squeeze™ is delivered totally or partly dismantled in a cardboard box.

#### 2.1 Assembly Instructions- Lift-O-Squeeze™

After assembling the LIFT-O-FLEX® Lifter, verify components delivered for the LIFT-O-SQUEEZE™. Items shown are unassembled unit. Depending on model purchased, components may vary from those shown.

**Note:** Assembly of the 12126 Lift-O-Squeeze™ to either the 20000 or 19000 series lifters are virtually identical except for mounting to the lift mast. Assembly instructions listed below are for the 20000 Series LIFT-O-FLEX® lifter.



#### Components Shown:

Item No.	Description
1	Squeeze mast
2	Electronic Control Module
3	Fixed Arm Brackets
4	Moving Arm w/Gripper
5	Fixed Arm W/Gripper
6	Cable Tray Guide
7	Mounting Plate

# **Lift-O-Squeeze™**

## **For Lift-O-Flex® 20000 and 19000 Series Lifters**

- 1 Place the **LIFT-O-SQUEEZE™** Mast (1) on a worktable, with the back plate facing the lift slide.
- 2 Insert flat head socket cap screw in the top mounting hole and the hex bolt in the bottom-mounting hole.
- 3 Place the wedge (not shown) with the thick end UP over the bolts
- 4 Fasten Mounting Wedge to lift mast.
- 5 Slide the electronic control module with cable tray attached down the center track on the lift mast. Top of electronic control module should be about 40" from the floor. Plug in the power cable for the electronic control box into the battery charge port on the power pack. Next slide the electronic control module up to take up any slack in the cable to the power pack. Next slide the cable tray guide down the right side track of the mast and tighten.
- 6 Plug in the Remote Control
7. The **Lift-O-Squeeze™** is now ready for operation.

**Note:** 20000 series lifters are provided with a lift slide that the mounting wedge bolts too. The 19000 series lifters are provide with a mast slide that the mounting plate mounts too.

### ***2.2 Disassembling***

Perform in reverse order as per section 2.1

### ***2.3 Discarding***

After many years of service, your lifting device can be discarded in such a way to save the environment.

## **3 Operating instructions**

### ***3.1 Operating***

In order to prevent and avoid work injuries it is important that the **Lift-O-Flex®** Lifter and **Lift-O-Squeeze™** be operated in a proper manner.

### ***3.2 Power Source***

The **Lift-O-Squeeze™** power is supplied by the batteries through the same connection used to connect the battery charger for recharging purposes. The **Lift-O-Squeeze™** must be disconnected during recharging. When recharging is completed, remember to reconnect the **Lift-O-Squeeze™**.

### ***3.3 Lifting***

**Important!**

The maximum lift capacity on each model is listed as referenced in Section 1.  
The lifter is not to be used for personnel transportation.

# **Lift-O-Squeeze™**

## **For Lift-O-Flex® 20000 and 19000 Series Lifters**

Place your **Lift-O-Flex®** in the working area. Make sure to always apply the brake before starting to load or unload the end-effector. To apply the brakes, push the red bar forward to its bottom position.

Be certain that the end-effector is placed on the same level as the object to load. To change the elevation of the end-effector, use the “UP” or “DOWN” buttons on the remote control. The remote control has arrows to show the direction of operation.

After positioning, activate the “Close” button on **Lift-O-Squeeze™**. The load should always be positioned centrally in order to obtain the best stability possible.

If loading different sized items raise/lower the end-effector to the correct elevation. This makes it easy to off load the end-effector along with transport of the load.

### **Controller Types:**

**Remote Controller:** The remote control can rest on the handle or be held in the hand in the best position to observe the movement of the load platform. The remote control holder is mounted on the handle and can easily be adjusted. By turning the black lock bar on the plate counterclockwise the plate may be loosened. The plate can thus be easily adjusted and locked in place.

**Electronic Control Module:** The Electronic Control Module incorporates the use of pushbuttons and is mounted to the lift column. The pushbuttons are easily accessible and within reach of the operator and is provided with labeling to indicate each function.

### ***3.4 Transport***

**The end-effector should always to be lowered to the lowest possible position before moving the lifter.** Unlock the central brake by positioning the red bar in the middle position. All four wheels are now movable.

### ***3.5 Lift-O-Squeeze™ Description***

The **Lift-O-Squeeze™** is provided with an electrically operated “squeeze” mast (shortened version of the Lift-O-Flex® lift mast) with gripper arms used to pick up totes and move them around the system..

The end-effector has been designed so that the fixed arm and squeeze mast can be mechanically adjusted to fit different size loads other than factory settings should your totes change in the future.. Maximum load weight depends on material being handled along with the lift capacity of the lifter.

Operation on the **Lift-O-Squeeze™** is accomplished with the supplied remote controller or via push buttons located on the control module. Control functions are as follows:

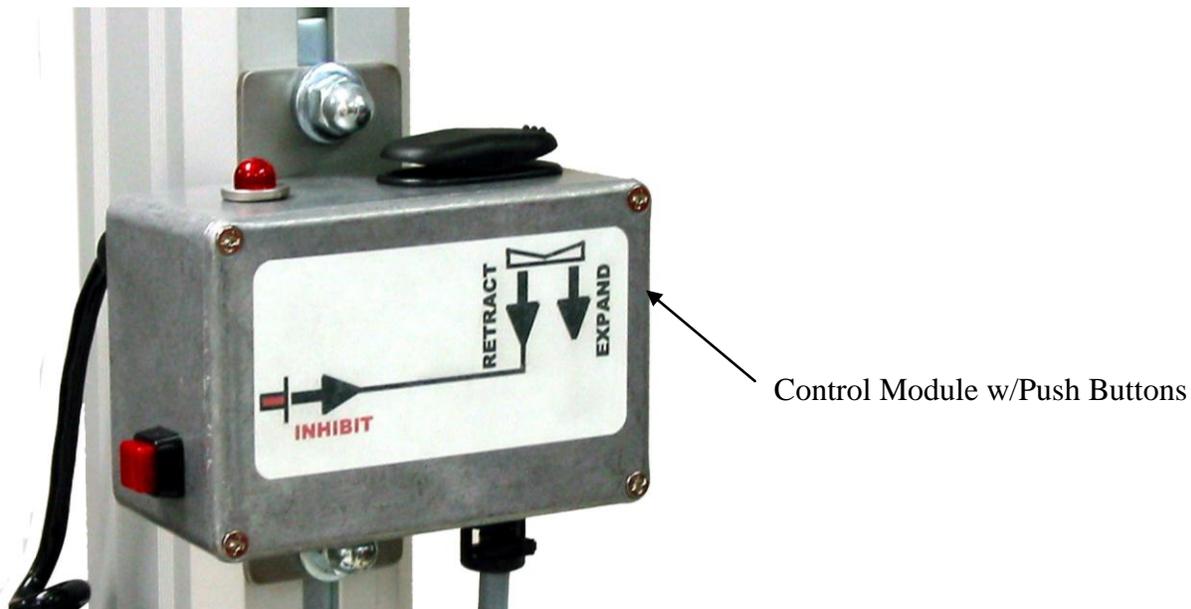
## Lift-O-Squeeze™ For Lift-O-Flex® 20000 and 19000 Series Lifters

### Remote Controller Operation:

- Gripper Close
- Grippers Open
- Inhibit (Works in conjunction with “Grippers Open” push button)

### Push Button Operation:

- Gripper Close
- Grippers Open-Both buttons to be activated at the same time
- 



**Note: The “Grippers Open” function will not work unless the “Inhibit” button or both “Open” push buttons are pushed at the same time.**

When gripping, always make sure the grippers are in the center of the load. Grippers are under operator control and are to be visually checked by the operator to make sure they are engaged properly before lifting.

After ensuring a proper grip on the load, raise the end-effector and back away from the pickup point. After clearing the pickup point, move to the off load position.

At the offload position, align the load with the dropoff. After ensuring that the load is properly aligned and lowered onto the drop off position, set the brake on the lifter and disengage the load by activating the “Gripper Open” and “Inhibit” buttons.

After offloading, unlock the brake and return the lifter to its wait position for the next operation.

**Lift-O-Squeeze™**  
**For Lift-O-Flex® 20000 and 19000 Series Lifters**

***3.6 Trouble Shooting***

See the **LIFT-O-FLEX®** Lifter manual regarding lift mast symptoms.

***3.7 Maintenance***

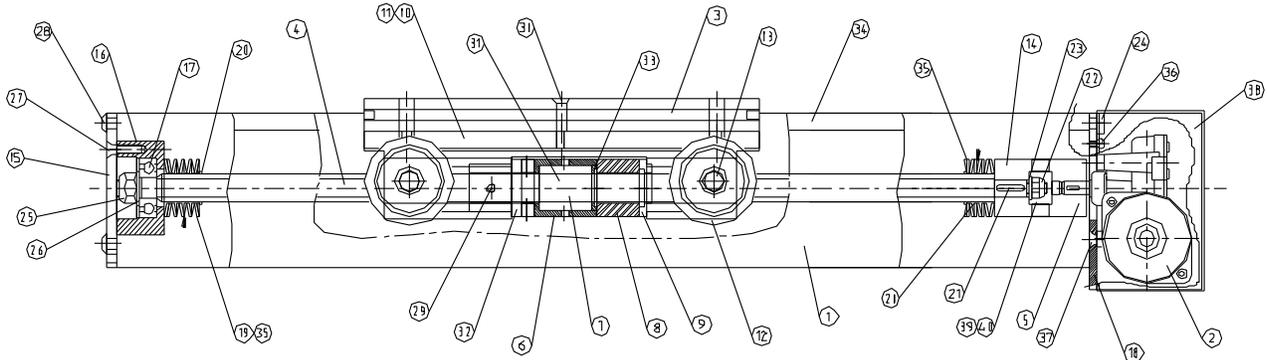
See the **Lift-O-Flex®** Lifter manual regarding lift mast maintenance.

# Lift-O-Squeeze™

## For Lift-O-Flex® 20000 and 19000 Series Lifters

### 4. Lift-O-Squeeze™

#### 4.1 Squeeze Mast

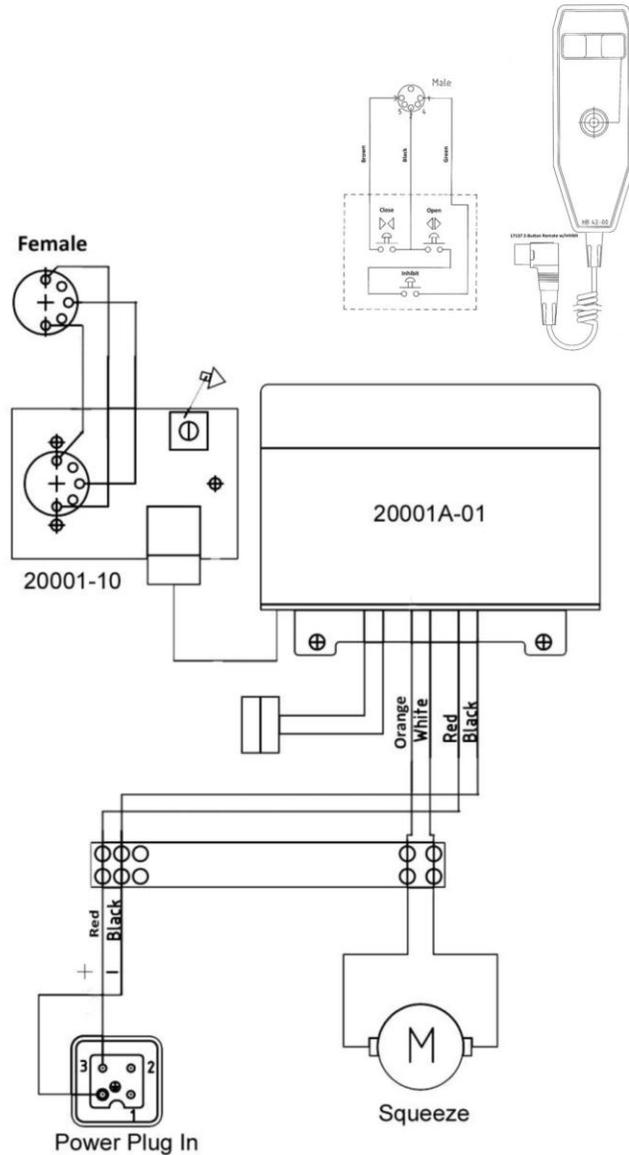


Item No.	Qty	Description	Part No.	Item No.	Qty	Description	Part No.
1	1	Column	19303-04	21	1	Key 20x 4	19151
2	1	Motor 403-936	17219	22	1	Lock Nut	Din 982 M8
3	1	Slide	19303-03	23	1	Washer	84 HB 200
4	1	Lead Screw	19303-02	24	4	Bolt	M8x21
5	1	Coupling	19120	25	1	Lock Nut	986 M1
6	1	Coupling-Lead Screw	19109	26	1	Washer	13 HB 201
7	1	Lead Screw Nut	19150	27	3	Bolt	M8x20 11.9
8	1	Spacer	19303-07	28	4	Bolt	M6x10
9	1	Spring Sleeve-Slide	19112	29	1	Lock Bolt	M6x30 11.9
10		N/A		30	1	Bolt	M6 x6
11	1	3/8 UNC Lock Bar	19125	31	4	Lock Bolt	T6S5 M6x6
12	4	Wheels	19115	32	1	Coupling	19110
13	4	Stub Shaft	19116	33	1	Spring Sleeve-Coupling	19111
14	1	Coupling	19121	34	2	Track Cover	19123
15	1	End-Cover	19113	35	14	Bevel Washer	19175
16	1	Bearing Holder	19114	36	4	Screw	M4 x 8 4.8
17	1	Ball Bearing	19102	37	3	Screw	6S M6x25 11.9
18	1	Motor Bracket	19303-05	38	1	Motor Cover	19303-06
19	4	Beveled Washer	19147	39	1	Insert	19222
20	2	Lock Ring	19107	40	1	Pipe Sleeve	19174

# Lift-O-Squeeze™

## For Lift-O-Flex® 20000 and 19000 Series Lifters

### 4.2 Electronic Control Module with Remote Controller

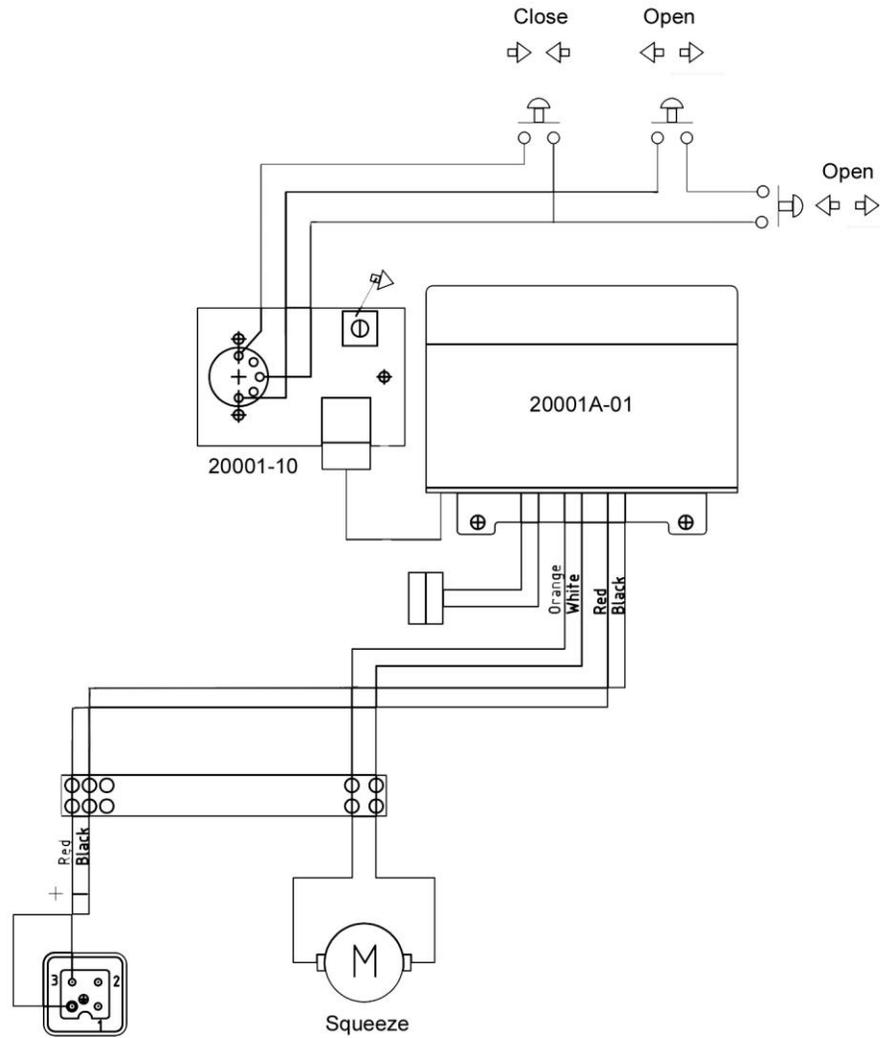


Qty	Description	Part No.
1	Aluminum Box	17131
1	Mounting Bracket	17115
1	Controller 45 Amp	20001A-01
1	Auxiliary Card	20001-10
1	2 Button Remote w/Inhibit	17137

### 4.3 Electronic Control Module w/Pushbuttons

# Lift-O-Squeeze™

## For Lift-O-Flex® 20000 and 19000 Series Lifters

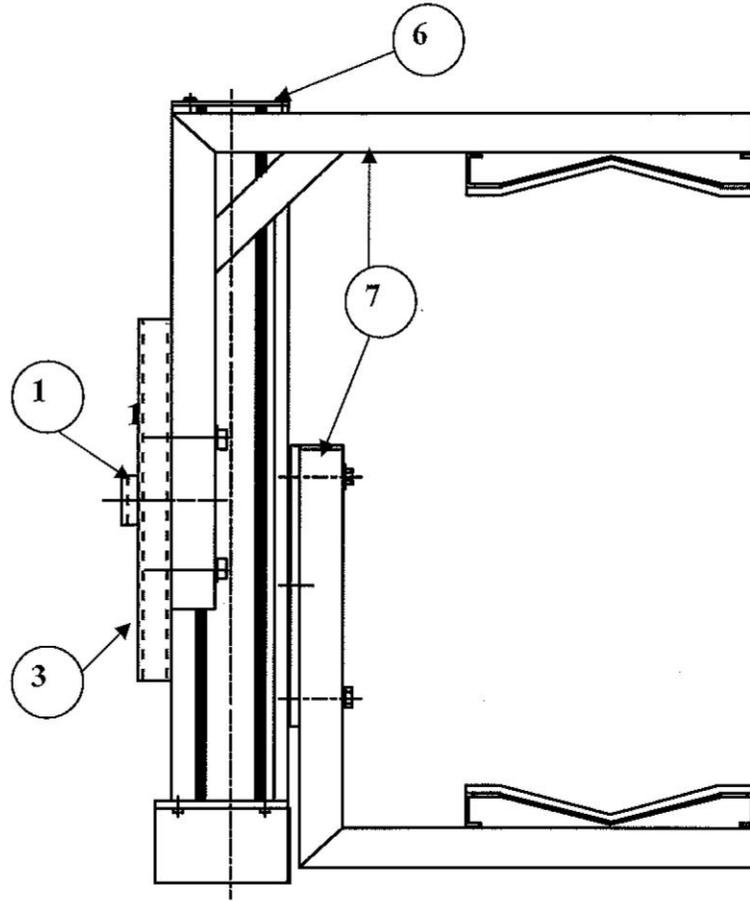


Qty	Description	Part No.
1	Aluminum Box	17131
1	Mounting Bracket	17115
1	Controller 45 Amp	20001A-01
1	Auxiliary Card	20001-10
2	“Black” Push Button	17145
1	“Red” Push Button	17129

# Lift-O-Squeeze™

## For Lift-O-Flex® 20000 and 19000 Series Lifters

### 4.4 Lift-O-Squeeze™ Assembly



Item No.	Qty	Description	Part No.
1	1	Lift mast Mounting Bracket	Call RonI
2	1	Electronic Control Module (Not Shown)	Call RonI
3	1	Bracket	Call RonI
4	2	Screw	Call RonI
5	2	Washer	Call RonI
6	1	Squeeze Mast	Call RonI
7	1	Arms (May vary depending on project) Call RonI	Call RonI

# Lift-O-Squeeze™

For Lift-O-Flex® 20000 and 19000 Series Lifters

## 5. Declaration of Conformity

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

**Supplier:** RONI, Inc., 9319 Forsyth Park Drive, Charlotte, NC 28273  
Address

**Description:** Lift-O-Squeeze™

**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:** \_\_\_\_\_