

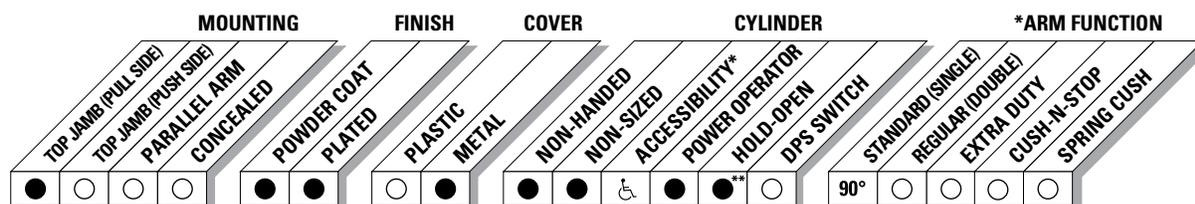


The 4630 AUTO EQUALIZER™ is LCN's SMART & RELIABLE electrically powered low-energy power operator. It provides easy access for people with disabilities, or the elderly. Designed primarily for manual opening applications that occasionally required automatic opening.

<b>Certifications</b>	Grade 1 - ANSI A117.1, A156.19, UL 10C, UL 325/228, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act	<b>Cover</b>	Metal, standard
<b>Body Construction</b>	<ul style="list-style-type: none"> <li>■ Cast Iron Body</li> <li>■ Full Complement Bearing</li> <li>■ 1-1/2" Diameter Piston</li> <li>■ 3/4" Diameter Double Heat Treated Pinion Journal</li> </ul>	<b>Fasteners</b>	Wood and machine screws
<b>Fluid</b>	All Weather Fluid	<b>Mounting</b>	Top jamb (Pull Side)
<b>Handing</b>	Non-Handed	<b>Arms</b>	Standard single lever arm and track
<b>Size</b>	Adjustable Spring Size 1-4	<b>Finishes/Colors/ Powder Coat</b>	<ul style="list-style-type: none"> <li>■ Aluminum (689)</li> <li>■ Statuary Bronze (690)</li> <li>■ Light Bronze (691)</li> <li>■ Black (693)</li> <li>■ Dark Bronze (695)</li> <li>■ Brass (696)</li> <li>■ Custom colors optional</li> </ul>
<b>Warranty</b>	2 years		<ul style="list-style-type: none"> <li>■ Optional SRI primer - powder coat only</li> <li>■ Optional plated finishes*</li> </ul> <p><i>*End caps are black</i></p>

**Special  
Templates**

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.



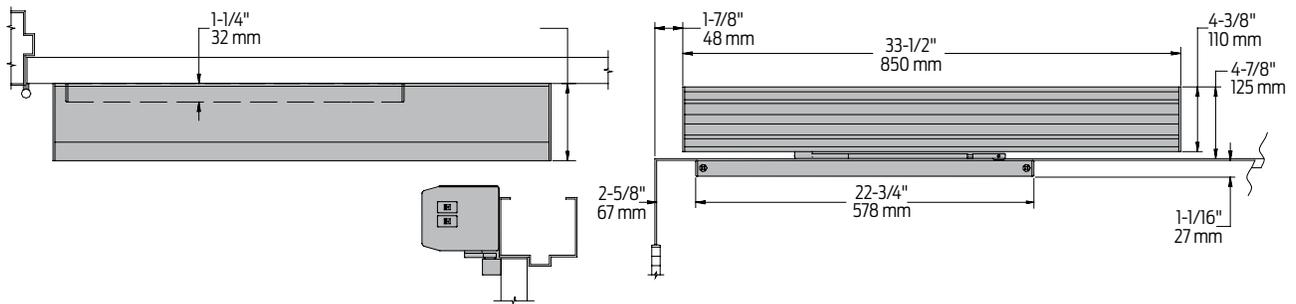
● AVAILABLE  
○ NOT AVAILABLE

♿ Meets ADA requirements (power mode).  
\* See individual series for maximum manual opening.  
\*\* Switch provided for continuous hold open (4630 only).

# 4630 Series Auto Equalizer

## Mounting details

### Top Jamb (Pull Side) Mounting



<b>Butt Hinges</b>	Should not exceed 5" (127 mm) in width
<b>Auxiliary Stop</b>	Recommended
<b>Reveal</b>	Should not exceed 1/8" (3 mm)
<b>Head Frame</b>	Minimum 2" (51 mm)
<b>Top Rail</b>	Minimum 1-1/8" (29 mm)
<b>Opening Time and Force</b>	<ul style="list-style-type: none"> <li>■ Variable by adjustments to the electronic control module located on the operator assembly</li> <li>■ Maximum hold open time adjustable up to approximately five minutes</li> </ul>
<b>System Diagram</b>	See "AUTOMATIC OPERATORS" section pages 35 for typical system wiring and pages 37-38 for electrical data
<b>Maximum Opening</b>	<ul style="list-style-type: none"> <li>■ Templating allows 90° power opening and 170° manual opening</li> <li>■ Please note that many track style door closers are capable of allowing 180° of door swing</li> <li>■ Track style closers are at their weakest closing force at 180°</li> <li>■ Consult factory for applications where exterior or large/heavy door must swing 180°</li> </ul>

#### Notes:

- Actuators are sold separately, see pages 115-131
- Comes with a digital control box utilizing a 4040 heavy duty door closer with on-board diagnostics and power supply
- Has a factory default memory that include "No Destruct" drive system
- Guard rails or safety mats not required
- 4630 has easily accessible switches to provide on/off and continuous hold open functions
- CS options provides concealed on/off power switch
- Control module provides timing and sequential door functions, electric strike controls and adjustments for opening speed and force

## Cylinders



**4631-3971**  
Cast Iron Cylinder Assembly

- Non-handed
- Standard



**4631-3071**  
Cast Iron Cylinder Assembly

- Non-handed
- Mounting plate
- Includes 4630-3454 Motor Clutch, 4630-3180 I/O Board Assembly and 4630-3462 Controller
- Standard



**4631-3071CS**  
Cast Iron Cylinder Assembly

- Non-handed
- Mounting plate
- Includes 4630-3454 Motor Clutch, 4630-3180 I/O Board Assembly and 4630-3462 Controller
- Same as a 4630-3071 assembly except on/ off switch is concealed in endcap and no hold open switch is included (Separate key switches suggested)
- Standard

## Cover



**4630-72MC**  
Metal Cover

- Non-handed
- Standard

## Track



**4630-3038**  
Standard Track

- Non-handed
- Will not accept hold open clip or bumper assembly
- Standard

## Arm



**4630-3077T**  
Standard Arm

- Non-handed
- Track roller not included with arm

## Installation Accessories



**4630-3034**  
Track Roller

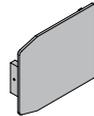
- Quiet low friction roller assembly
- Shoulder dimension "X" = 1/8" (3mm)

### Installation Accessories



**4630-334**  
Switch End Cap

- End cap (black powder coat finish only) with cut outs for installing on/off and hold open switches



**4630-334-2**  
Blank End Cap

- Black powder coat only



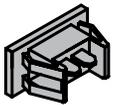
**4630-334CS**  
Switch End Cap

- End cap and switch (black powder coat only) for concealed switch option



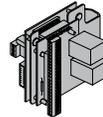
**4630-3179-1**  
On/Off Switch Assembly

- Black rocker switch. Plugs into high voltage PC board



**4630-3179-2**  
Hold Open Switch Assembly

- Black rocker switch
- Field wired to low voltage PC board



**4630-3180**  
PC Board Assembly

- High and low voltage PC boards connected to mounting bracket



**4630-3454**  
Motor/Clutch Assembly

- A geared assembly in an LCN power operator that incorporates a "no destruct" feature



**4630-3462**  
Control Box Assembly

- Digital controller with built-in 12/24 VDC power supply
- Programming and timing functions are adjusted on controller



**4630-3498-2**  
AC Power Cable

- 2 wire cable to connect 120 VAC from PC board assembly to controller



**4630-3498-1**  
Ribbon Cable Connector

- 16 wire ribbon cable connecting 1-24 pin terminal connectors to controller

### How-to-order 4630 Series closers

#### Specify finish

- Standard Powder Coat \_\_\_\_\_  
Aluminum, Dark Bronze, Statuary, Light Bronze, Black, Brass

### Closer options

#### Cylinder Assembly

- CS (concealed on/off switch)  
(separate key switches suggested)

#### Finishes

- Custom Powder Coat (RAL) \_\_\_\_\_
- Plated Finish, US \_\_\_\_\_

#### Screw pack

- TB\*, Wood & Machine Screw (TBWMS)
- TORX Machine Screw (TORX)
- TB\* & TORX Machine Screw (TBTRX)  
\*Specify door thickness if other than 1-3/4".

#### Special template

- ST- \_\_\_\_\_

#### Closer will be shipped with:

- Standard cylinder
- Standard metal cover
- Standard arm
- Track roller
- Standard track
- Wood and machine screw pack  
unless options listed below are selected

### Table of sizes

- Non-Sized 4630 series cylinder is adjustable from size 1 through size 4 and is shipped set to size 3
- Closing power of 4630 Series closers may be increased 50%

#### Exterior (and Vestibule) door width



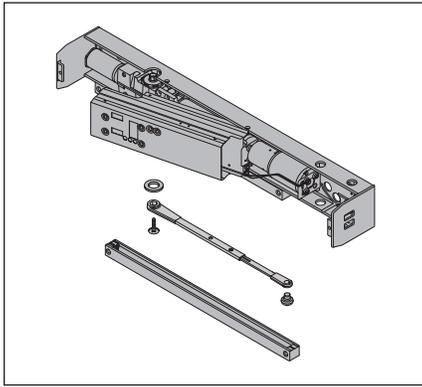
#### Interior door width



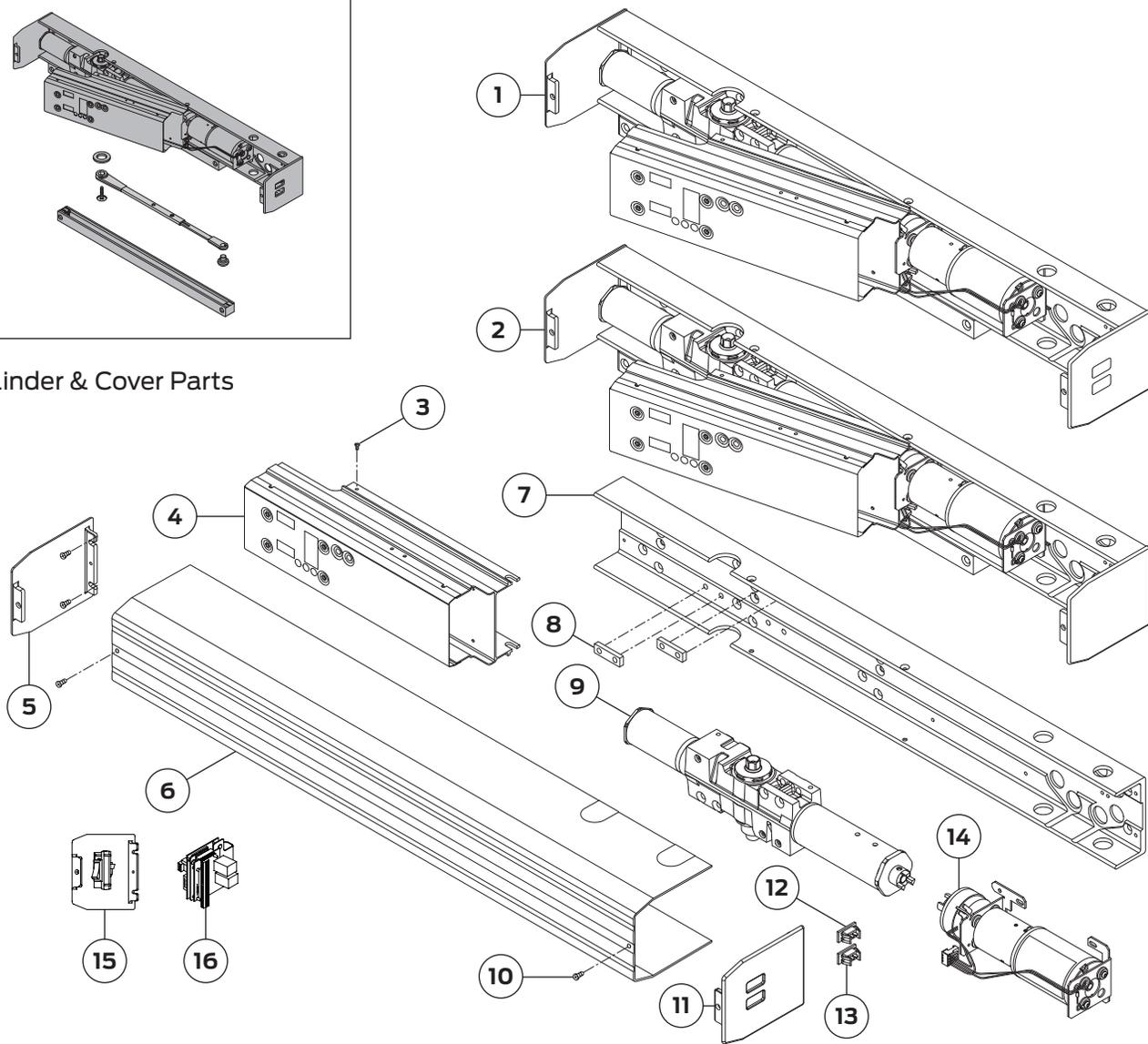
→ Indicates recommended range of door width for closer size.

NOTE: Minimum door width 36" (914 mm).

## 4630 Series "Auto-Equalizer"



Cylinder & Cover Parts



No.	Description	Part number
1	Cylinder Assembly (F)*	4632-3071
2	Cylinder Assy w/ Concealed I/O Switch (F)*	4632-3071CS
3	Controller Screw (F)	4630-31
4	Controller Assembly †	4630-3462
5	Blank Endcap ‡	4630-334-2
6	Metal Cover (F)§	4630-72MC
7	Mounting Plate Assembly	4630-3018
8	Stand-Off	4630-182

\* Includes Nos. 4, 7, 9. Cylinder is adjustable, size 1-4.

† Includes No. 3.

‡ Includes two Endcap Screws.

No.	Description	Part number
9	Cylinder Only (F)#	4632-3971
10	Cover Screw (F)	4631-31
11	Switch Endcap ‡	4630-334
12	On/Off Switch Assembly	4630-3179-1
13	Hold Open Switch Assembly	4630-3179-2
14	Motor/Clutch Assembly	4630-3454
15	Concealed Switch Endcap ‡	4630-334CS
16	I/O Board Assembly	4630-3180

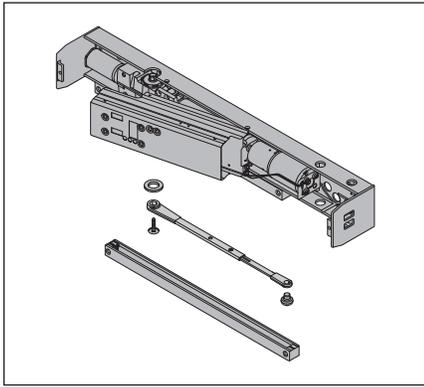
§ Includes No. 10(2).

|| Includes Nos. 5, 8(2), 11, 12, 13, & 14 or Nos. 5, 8(2), 14, & 15.

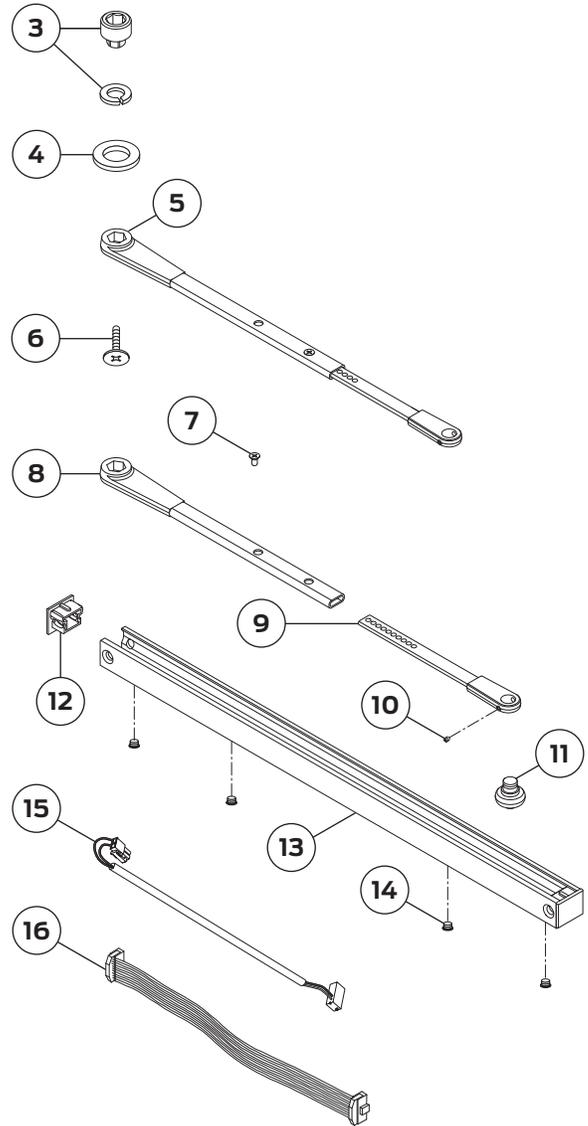
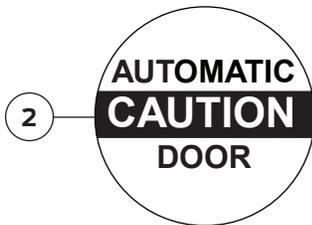
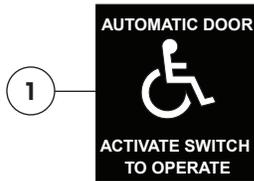
# Cylinder is adjustable, size 1-4.

Please specify finish (F) where indicated. See the latest edition of the LCN catalog for part descriptions and specifications on many of the items shown above. List prices for items shown above can be located in the current LCN price book.

## 4630 Series "Auto-Equalizer"



Arm & Additional Components



No.	Description	Part number
1	Activation Decal *	4630-155-2
2	Caution Decal †	4630-155-1
3	Shaft Extension Kit (F) ‡	4630-480
4	Shaft Spacer	4630-61
5	Standard Arm (F) §	4630-3077T
6	Arm Screw (F)	4630-159
7	H Arm Screw (F)	4630-83H
8	Arm & Tube (F)	4630-78
9	Rod (F) #	4630-82
10	Roller Lock Screw	4630-425

\* Blue/White Switch Decal.

† Black/Yellow Caution Decal.

‡ Includes Extension, Lock Washer, & No. 6.

§ Includes Nos. 4, 6, 7, 8, 9, & 10.

No.	Description	Part number
11	Track Roller	4630-3034
12	End Cap (F) (2 Required - Sold Individually)	4630-73
13	Standard Track (F) **	4630-3038
14	Plug (F) (4 Required - Sold Individually)	4630-141-2
15	A/C Power Cable	4630-3498-2
16	Ribbon Cable Connector	4630-3498-1
17	WMS Screw Pack (Not Shown)	4630-WMS
18	TBWMS Screw Pack (Not Shown)	4630-TBWMS
19	TORX Screw Pack (Not Shown)	4630-TORX
20	TBTRX Screw Pack (Not Shown)	4630-TBTRX

|| Includes No. 6.

# Includes Nos. 7 & 10.

\*\* Includes Nos. 12(2) & 14(4).

Please specify finish (F) where indicated. See the latest edition of the LCN catalog for part descriptions and specifications on many of the items shown above. List prices for items shown above can be located in the current LCN price book.