




18762

4310ME Series

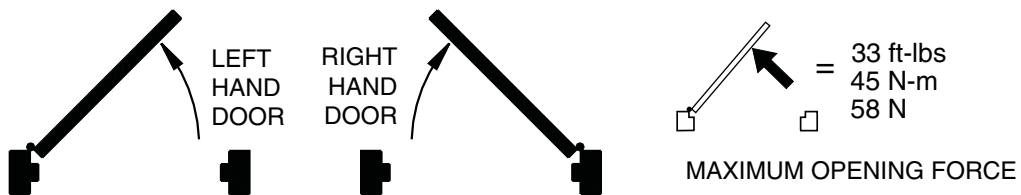


Door closer with electronic release & Multi-point hold open

Installation Instructions

1 Closer Installation	
1a Closer Information Closer is handed at the factory. The hand of the closer must match the hand of the door (see the door handing diagram below).	1d Wiring Connections Make the wiring connections at this time. Connect the two black wires to the input voltage (polarity is not important). The green wire MUST be connected to an earth ground (see Figures 3 & 4 on page 3).
1b Voltage Voltage supplied to the door frame MUST match voltage of the solenoid.	1e Spacer/Arm Place the spacer on the closer shaft, slide the arm onto the closer shaft, and secure it with the arm shaft screw (see Figure 1 on page 3).
1c Before beginning this step, determine which type of wiring option will be used, and follow the corresponding instructions: Concealed Wiring: see Figure 3 on page 3. a. Prepare the frame per the proper template on page 4. Be sure all the holes are dimensioned correctly before drilling and tapping. b. Assemble the conduit connector provided to the flexible conduit, then attach to the hole in the mounting plate. c. Secure the mounting plate to the frame with the screws provided. Surface Wiring: see Figure 4 on page 3. ① NOTE: Remove the knockout in the top of the cover. a. Prepare the frame per the proper template on page 4. Be sure all the holes are dimensioned correctly before drilling and tapping. b. Secure the mounting plate to the frame with the screws provided. c. Attach the surface run 1/2" EMT conduit to the hole in the bracket on the mounting plate. Be sure the conduit is securely attached to the bracket.	1f Track Roller Insert the track roller into the track, and end caps into both ends of the track. Place track plugs in the track where needed. Using the fasteners provided, mount the track on the door per the template on page 4.
<div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>⚠ WARNING ⚠</p>  <p>HAZARDOUS VOLTAGE CAN SHOCK AND CAUSE SEVERE INJURY</p> <p>Disconnect power before making any electrical connections or performing maintenance.</p> </div>	1g Set Screw Loosen the set screw in the end of the arm, open the door approximately 30°, pull the arm over the top of the door and connect to the track roller. Tighten the set screw firmly.
	1h Electric Checkout Regulate the closer and perform an electrical checkout, as instructed on page 2, before installing the closer cover.
	1i Disengage the Swing Free Arm To disengage the swing-free action of the arm, insert the locking screw (stored in the tube portion of the arm) into the shaft end of the arm, and tighten securely.

HOW TO TELL HAND OF DOOR:



Customer Service

1-877-671-7011 www.allegion.com/us



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18762 Rev. 06/16-n

2 Regulation Instructions

See Figure 2 on the opposite page for regulating screw location, door control diagram & spring power adjustment

2a Spring Power Adjustment

DO NOT ALLOW THE DOOR TO SLAM INTO THE FRAME. The spring power should be adjusted **only** if more power is needed to close the door. Turning the spring adjustment $\frac{5}{32}$ " Allen Wrench clockwise will increase the spring power. Maximum adjustment is six (6) turns.

2b Regulation

A "normal" closing time from a 90° position is five (5) to seven (7) seconds, equally divided between the **MAIN** and **LATCH SPEED**. If adjustments are needed, use $\frac{3}{32}$ " Allen Wrench. To adjust the **MAIN SPEED**, turn the regulating screw clockwise to slow the door speed, or counterclockwise to increase the door speed. **LATCH SPEED** is adjusted the same way. When adjusting the **BACKCHECK**, turn the regulating screw clockwise to increase the amount of force, or counterclockwise to reduce the amount of force. **DO NOT USE THE ABRUPT BACKCHECK SETTING OR EXPECT THE CLOSER TO ACT AS A STOP!**



CAUTION

Improper installation or regulation may result in personal injury or property damage. Follow all instructions carefully.
For questions, call LCN at
877-671-7011

3 Electrical Checkout

After completion of installation & wiring, and with the unit properly powered, perform the following tests:

3a Hold Open

With power on, open the door any position and release. The door should remain in the hold-open position within 10°. For a bypass model to hold open, the door must be opened beyond the degree of the door swing indicated on the label.

3b Door

If the door does not remain in the hold open position, push the on/off switch. Open the door again. If the shaft end of the arm still does not hold open, verify the proper voltage input at the solenoid leads.

3c Power Release

Turn the power off. The shaft end of the arm should rotate and pick up the rest of the arm, closing the door completely. Push the on/off switch again to restore the power.

3d Put on Closer Cover

After the electrical checkout is complete, fit the closer cover onto the closer and insert cover screws in proper locations. Hold the cover firmly against the mounting plate while tightening the cover screws securely.

3e Rechecking the System

The system should be checked at regular intervals. It is recommended that steps 3a-3c be repeated every 90 days.

4 Electrical Data for Door Holder Solenoid

24V AC-DC Nominal +10% - 15% @ 0.075 Amp. Max.
120V AC-DC Nominal +10% - 15% @ 0.030 Amp. Max.
24 V Hold Open Force Adjustment

If the door is hard to pull out of the hold open position, adjust as shown.

IMPORTANT

The closer leaves the factory set at a maximum holding force. The holding force may be decreased and increased again, but it cannot be increased beyond the original setting.

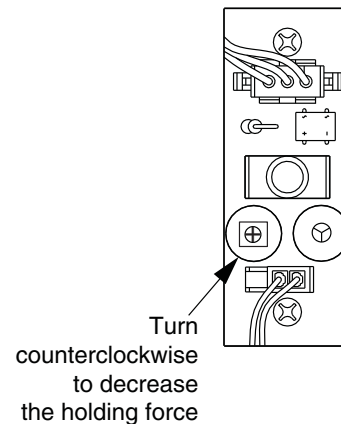


Figure 1

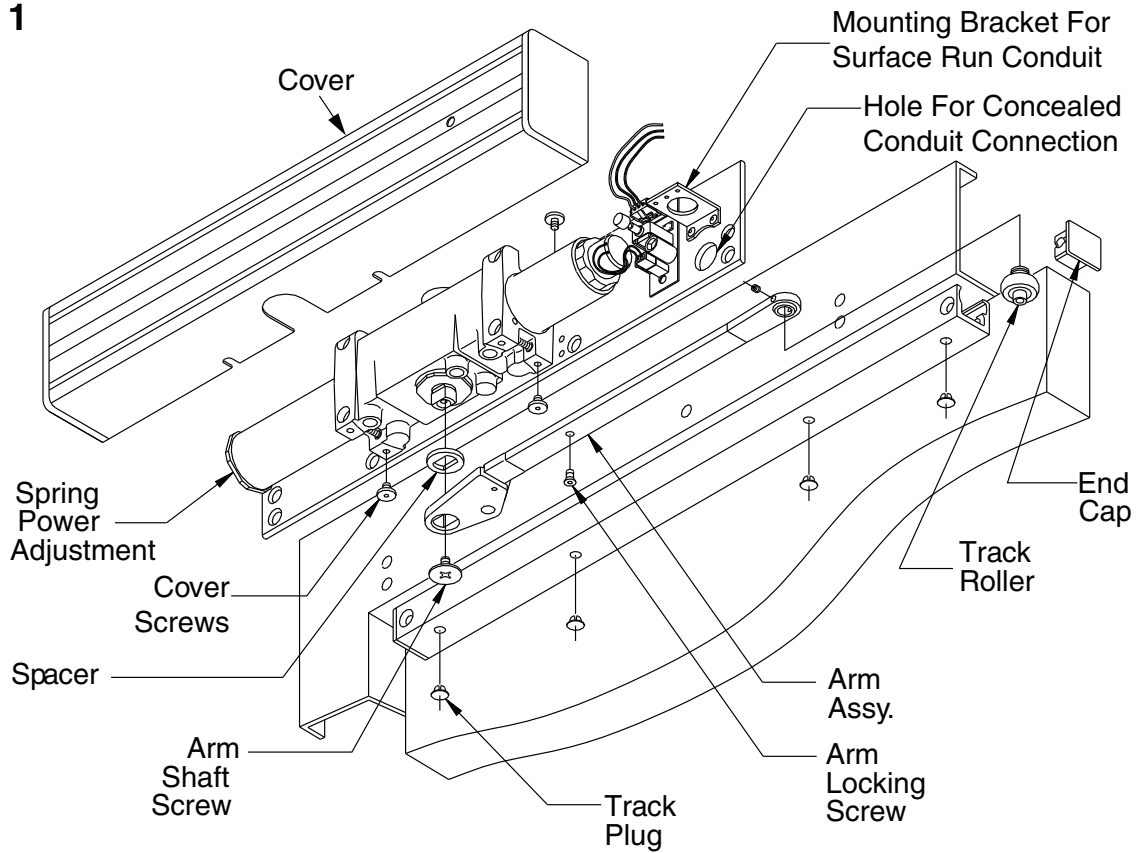


Figure 2

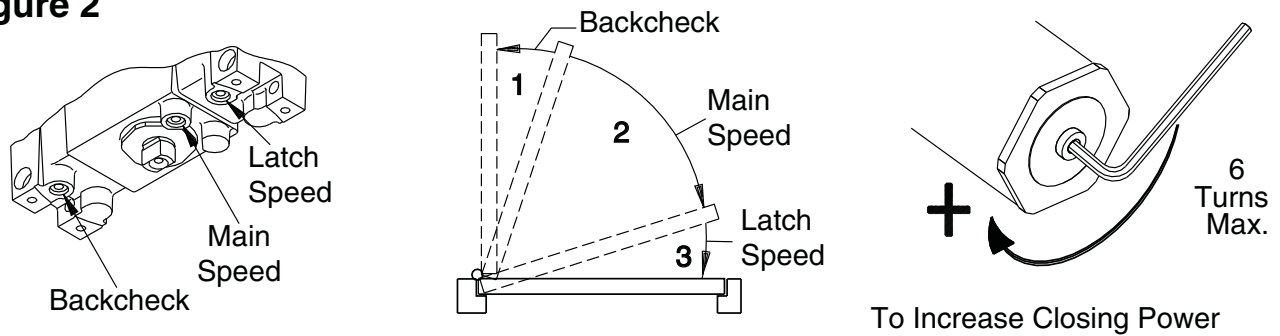


Figure 3

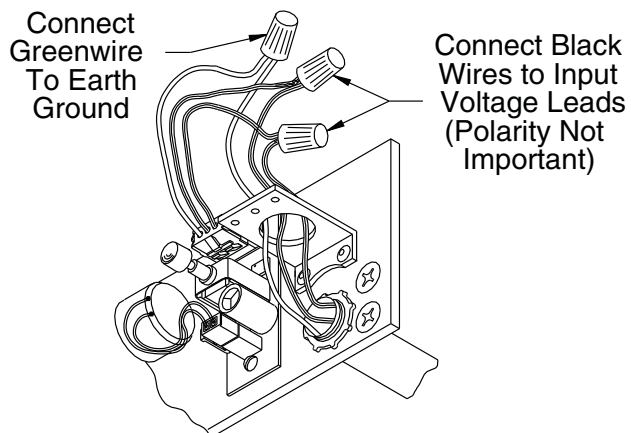
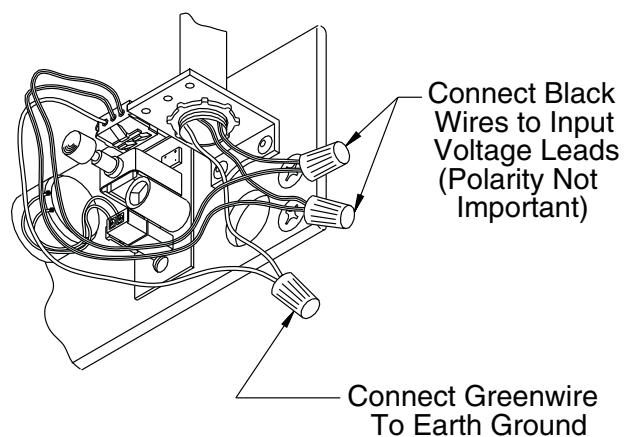


Figure 4



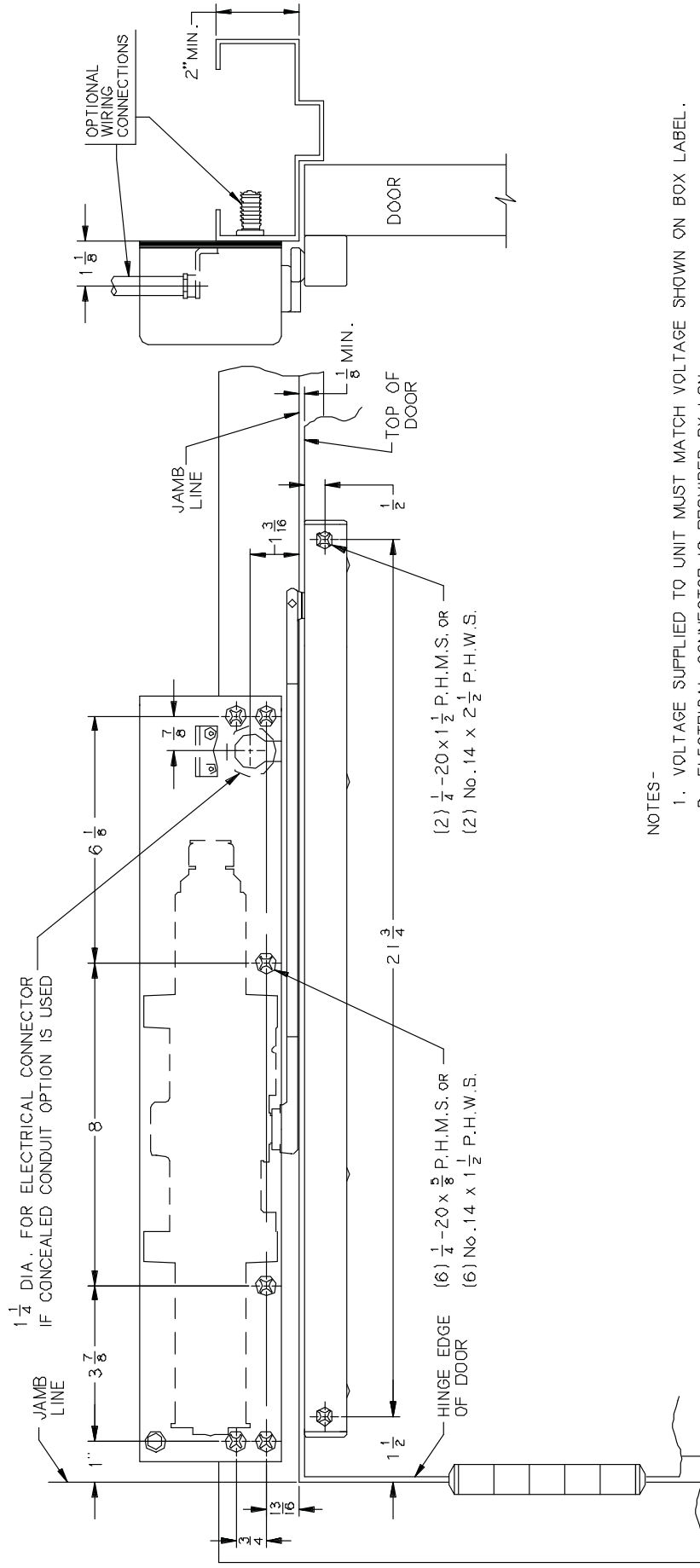
4310 ME

4314 ME } HOLD OPEN ANY POINT TO 160°
 } HOLD OPEN BYPASS 80° OR 140°

AUXILIARY STOP RECOMMENDED

RIGHT HAND DOOR AND CLOSER SHOWN, LEFT HAND OPPOSITE

12/96



NOTES-

- VOLTAGE SUPPLIED TO UNIT MUST MATCH VOLTAGE SHOWN ON BOX LABEL.
- ELECTRICAL CONNECTOR IS PROVIDED BY LCN.
- IF DOOR IS HUNG ON PIVOTS, LOCATE CLOSER AND TRACK FROM CENTERLINE OF PIVOT.
- IF DOOR IS HUNG ON SWING CLEAR HINGES, CONSULT FACTORY.
- FLOOR OR WALL STOPS SHOULD BE USED.
- FOR ADDITIONAL INFORMATION ON RECOMMENDED USE OF THIS UNIT CONSULT NFPA-72E PAMPHLET.
- REINFORCING PER ANSI/SDI-100 RECOMMENDED FOR HOLLOW METAL DOORS AND FRAMES.

INCH	1/8	1/4	1/2	5/8	3/4	13/16	7/8	1	1 1/8
M.M.	3	6	13	16	19	21	22	25	29
INCH	1 3/16	1 1/4	1 1/2	2	2 1/2	3 7/8	6 1/8	8	2 1/4
M.M.	30	32	38	51	64	98	156	203	553

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