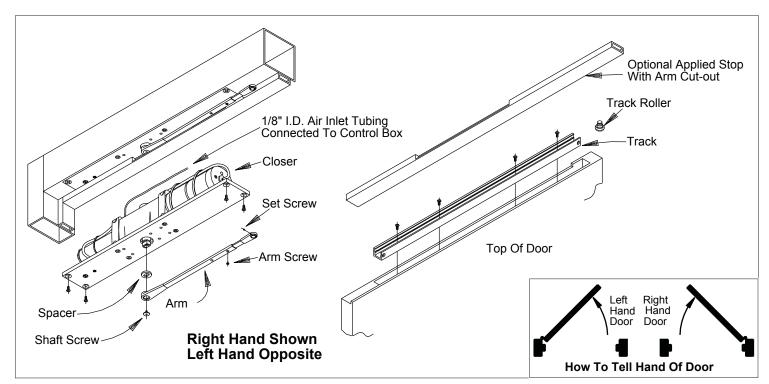


2610 Series

**LCN**<sub>®</sub>

Auto-Equalizer Low Energy Door Operator

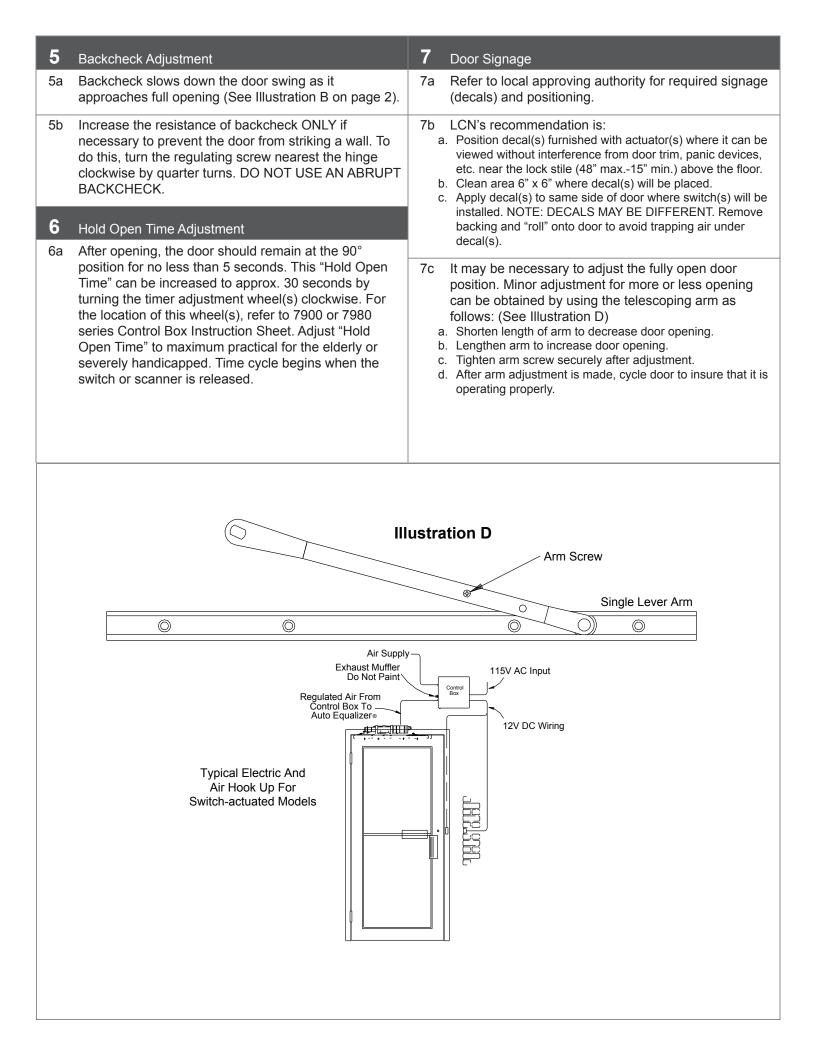
Installation Instructions

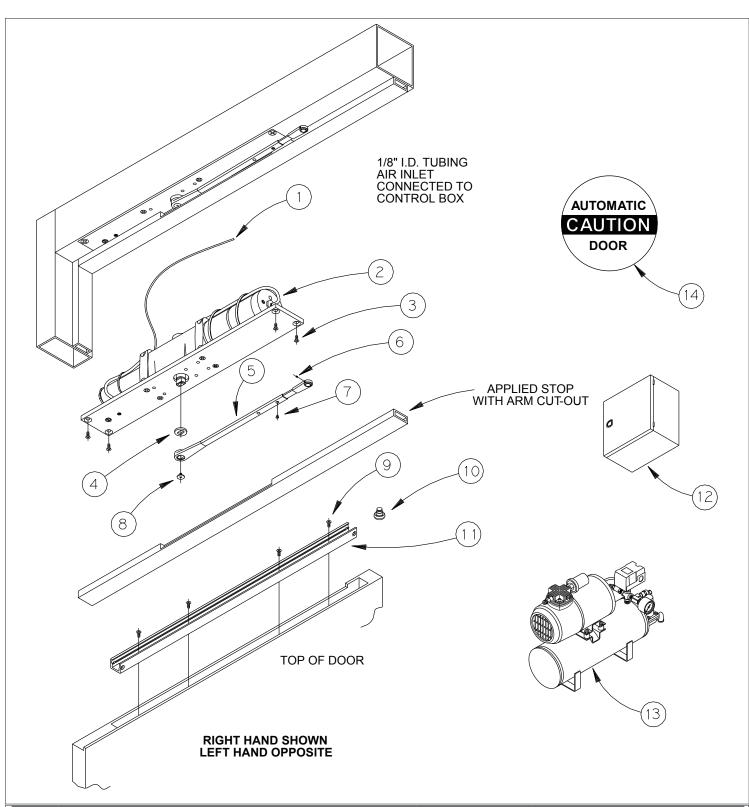


1	Installation						
1a	Closer is handed at factory and must match hand of door. Hand of closer is stamped on mounting plate.						
1b	If frame and door are not prepared for closer and track, see template (page 5) for required installation and prepare according to details shown.						
1c	Connect air line to closer at speed control valve inlet fitting.						
1d	Insert closer in prepared frame and fasten with screws provided.						
1e	Insert track roller in track and mount track in prepared door opening with screws provided.						
1f	Place spacer on closer shaft. Then push arm over shaft and secure with shaft screw.						
1g	Loosen set screw in end of arm using a 3/32" hex wrench. Open door part way (30°-40°), pull arm over top of door and connect to track roller. Tighten set screw firmly.						
<ol> <li>NOTE: If door is hung on pivots, swing clear, or wide throw hinges, consult factory.</li> </ol>							

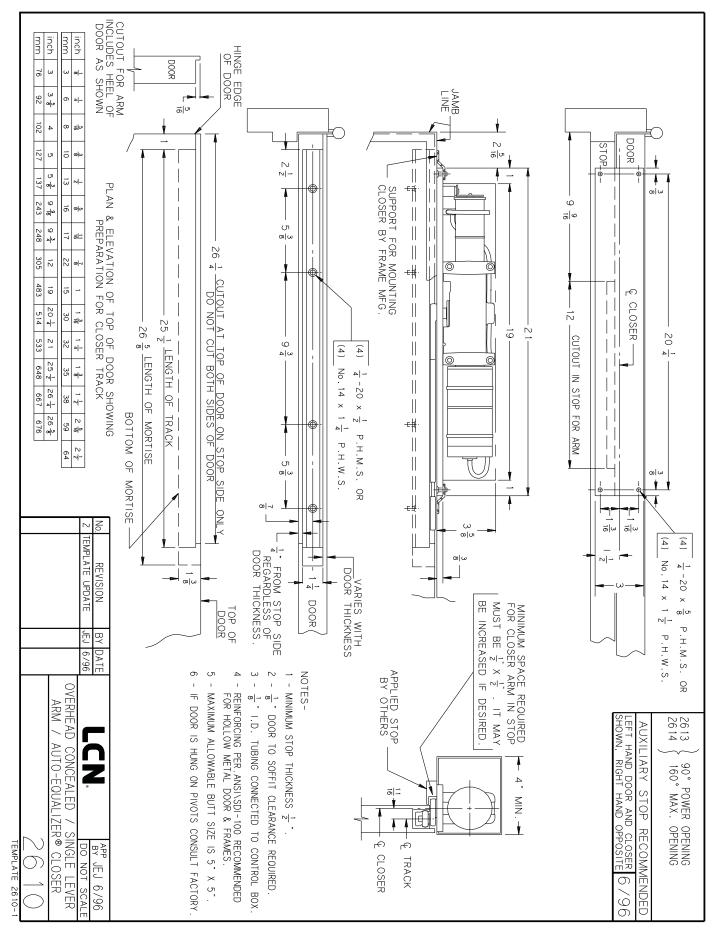
## 2 4 **Closing Force Adjustment Opening Speed Adjustment** $(\mathbf{i})$ See Illustration A. For air pressure regulation, see control box instruction sheet. (j) 4a The door opening speed must be adjusted to suit the Closer is shipped with minimum closing power pre-2a width and weight of the door. The wider and/or heavier set. Adjust CLOSING POWER only if more power is the door, the slower it should open. to determine opening speed, measure door leaf width and weight. needed. If door weight cannot be measured, the weight can 2b To increase closing power turn spring adjustment be estimated by finding the area of the door (length x width) and multiplying it by the weight per square foot screw, using regular screw driver, clockwise. Maximum for the door type that is being used as shown below in adjustment is 18 turns. Table 2. Table 2 **ILLUSTRATION A Door Type** Weight per Sq. Ft. Solid Core Wood 20 Ga. Flush 5.5 Hollow Metal Aluminum x 1" Glass Mineral Core Door 16 Ga. Flush 7.0 LATCH SPEED P Hollow Metal Aluminum x 1" Glass MAIN SPEED These weights are for 1 3/4" thick doors. If the doors are (j) BACKCHECK thicker or thinner, consult door manufacturer for proper SPEED CONTROL VALVE weight OR weigh the door. SPRING ADJUSTMENT 4b The door opening speed is measured from closed door to 80° or backcheck (see closing speed adjustments). BACKCHECK At 80°, the edge of a 36" door is approximately 6" from MAIN SPEED a right angle. (See Illustration C.) 2 The opening speed control adjusting screw is located 4c near the end of the mounting plate directly below LATCH the tubing connections. (See Illustration A). Using a SPEED regular screwdriver, turn the speed control clockwise to slow the door speed, counter-clockwise to increase CLOSER CONTROL DIAGRAM door speed. Set speed to open door from 0° to 80° as **ILLUSTRATION B** shown in Table 3 below. NOTE: These weights are for 1 3/4" thick doors. If the doors are thicker or thinner, consult door manufacturer for 3 **Closing Speed Adjustment** proper weight OR weigh the door. Do not allow door to slam into frame. 3a **ILLUSTRATION C** A "normal" closing time from 90° open position is 5 to 3b 7 seconds, evenly divided between MAIN SPEED and LATCH SPEED. 80 Use a 3/32" hex wrench to adjust speed. 3c To slow MAIN SPEED of door, turn regulating screw 3d (nearest closer shaft) clockwise. A CAUTION A 3e To slow LATCH SPEED of door, turn regulating screw (nearest latch) clockwise. Do not set door speed faster than chart recommends! Table 3 Door Weight Fastest Opening Time in Seconds to 80° in Pounds Position Door Width in Inches 36" 42" 48" 100 lbs. 3.0 sec 3.0 sec 3.0 sec 125 lbs. 3.5 sec 3.5 sec 3.5 sec 150 lbs. 3.5 sec 3.5 sec 3.5 sec 200 lbs. 4.0 sec 4.0 sec 4.0 sec Note: If door width or weight is between the sizes and pounds listed, use time shown for the next wider or

heavier door.





Parts Lists							
Item	Part Number	Description	Item	Part Number	Description		
1	925	1/8" I.D. Pneumatic Tubing	8	2610-159	Shaft Screw		
2	2613 or 2614	LCN switch-Activated Auto Equalizer	9	No. 14 x 1"	Phillips Head Wood Screws		
1				No. 1/4-20 x 1/2"	Phillips Head Machine Screws		
3	No. 1/4-20 x 5/8"	Phillips Head Machine Screw	10	2610-3034	Track Roller Assy.		
4	2610-61	Spacer	11	2610-3038	Track		
5	2610-3077T	Arm (Specify L.H. or R.H.)	12	7900 or 7980	Control Box		
1				Series			
6	2610-425	Set Screw	13	920 or 921	Compressor (Optional)		
7	No. 10-24 x 3/8"	Arm Screw	14	2610-155-1	Decal		



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