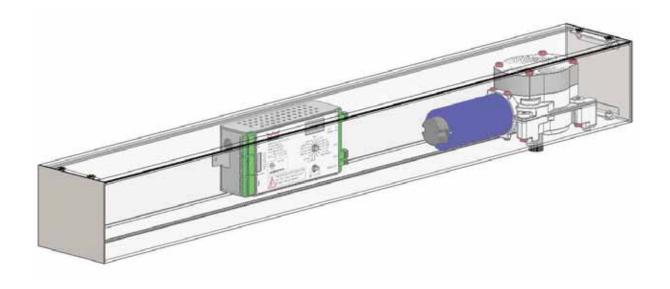




LOW ENERGY AUTOMATIC SWING DOOR

INSTALLATION AND TUNE IN MANUAL Distributed by:





Contents

ED700 LOW ENERGY AUTOMATIC DOOR OPERATOR

Page Number

- 1. Cover
- 2. Contents
- 3. Instructions, Safety Standards and Suggested Tools
- 4. Sales Packages Surface Applied
- 5. Arm Styles
- 6. Mounting the Header
- 7. Installing the Operator
- 8. Installing the Controller
- 9. Connecting the Controller and On Off Hold Switch
- 10. Wiring Diagram
- 11. Open to Hard Stop
- 12. Electronic Stop
- 13. Push Arm
- 14. Pull Arm (0"to 6") Reveal
- 15 Pull Arm General Information
- 16 Pull Arm (0") Reveal
- 17, Basic Set Up
- 18. Basic Set Up continued
- 19. Customized Set Up
- 20. Simultaaneous Pairs
- 21. Semi-Independent Pairs
- 22. Electronic Locks
- 23. Operating Instructions Care and Maintenance
- 24 Sinage and Safety Check
- 25. Technical Data
- 26 Controller Codes

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Important Installation Instructions

- 1. Carefully Read And Follow All Installation Instructions
- 2. Always disconnect the power supply before servicing.
- 3. After installation and adjustment, the installers final responsibility is to properly Instruct the owner in the safe use of the door. He must also present the owner With the ED700 Owner's Manual and carefully explain how to perform the Daily Safety Check.
- 4. Save These Instructions for Future Reference

Compliance with Safety Standards

Your door system was designed to the latest operating and safety standards. In Order to ensure the continued safe operation of your door, it is important that:

- Your door system be maintained in compliance with the standards of the industry, BHMA/ANSI 156.19.
- Proper decals and labels to be applied, per BHMA/ANSI standards, and maintained On your doors.

Suggested Tools:

```
Screwdrivers
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Small straight flat blade-for small terminals #2 Phillips (cross point) #3 Phillips (cross point)

Wrench / Sockets

9/16" Socket for arm attachment 1/2" Wrench / Socket 7/16" Wrench / Socket 3/8" Wrench / Socket

Electric Drill / Screwgun

Various bits 1/8", 7/32", 1/4", 3/8", 1/2"
1' Holesaw
Countersink

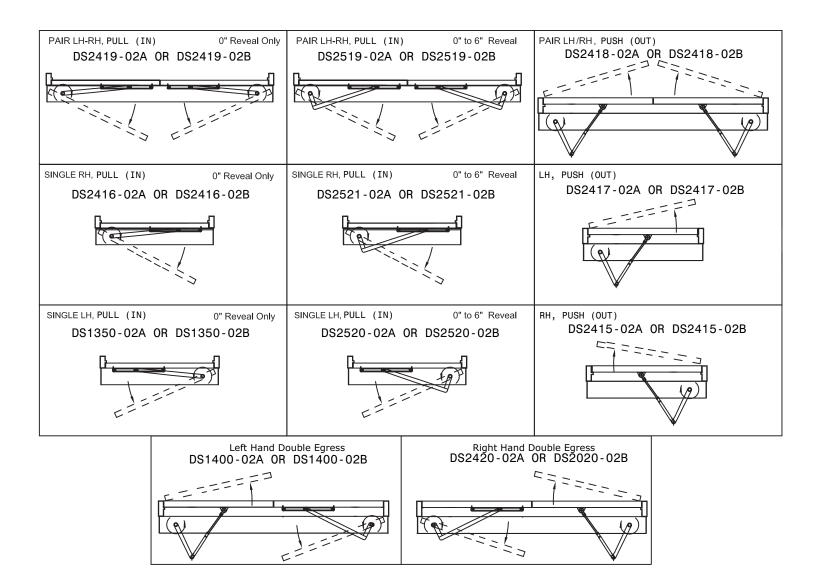
Level Step Ladder Tape Measure Electrical Wire Strippers / Cutters Various Wire Nuts

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ED700 SALES PACKAGES: SURFACE APPLIED

See page 25 for minimum and maximum header lengths and door weights.

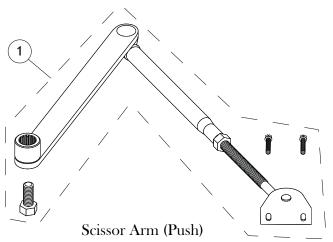


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ARM STYLES

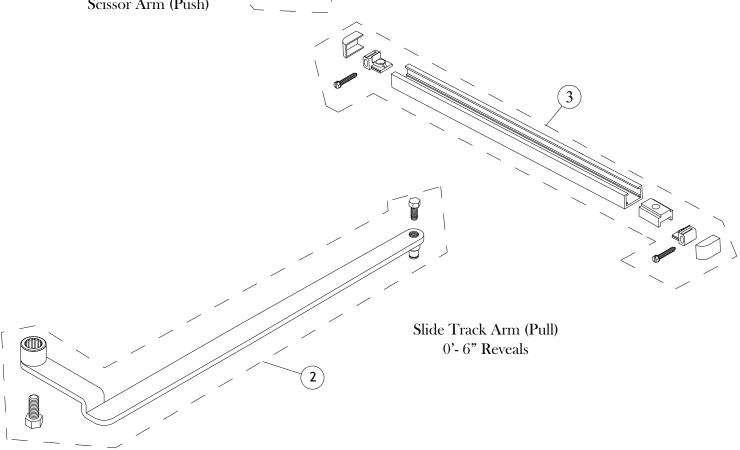


1. DC0847-01A ARM, UNIVERSAL SCISSOR CL DC0847-01B ARM, UNIVERSAL SCISSOR DB

DK2494-01A KIT, DOUBLE EGRESS SISSOR ARM

EXTENDED SPINDLE REQUIRED FOR DOUBLE EGEESS APPLICATIONS

- 2. DS2516-01A ASSY, TRACK ARM RH CL DS2516-01B ASSY, TRACK ARM RH DB DS2219-01A ASSY, TRACK ARM LH CL DS2219-01B ASSY, TRACK ARM LH DB
- DS2409-01A ASSY, SLIDE TRACK DS2409-01B ASSY, SLIDE TRACK

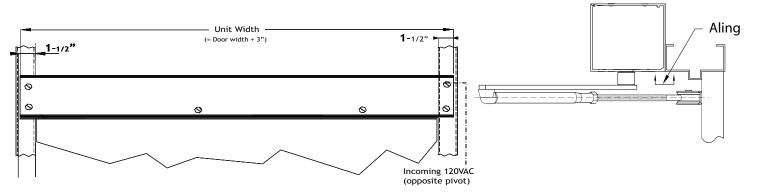


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MOUNTING THE HEADER

PUSH ARM



The header should overlap the door opening 1-1/2" on each side of the frame. If the header is shorter then the door opening the pivot side should overlap the frame by 1-1/2" the centerline of the drive shaft should be 4" from the pivot side of the opening in most applications.

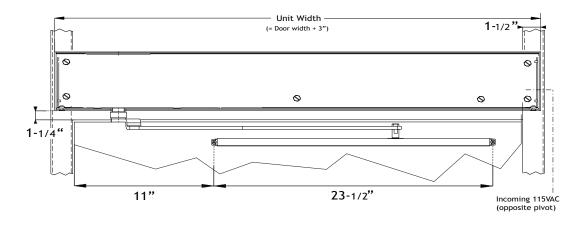
If the header is not predrilled with mounting holes, locate and predrill at least six mounting locations.

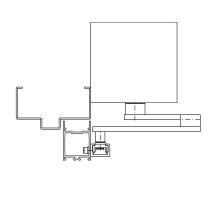
For outswing applications using a Push arm the header should be flush with the bottom of the frame opening, for frames with a standard stop.

For inswinging doors using Pull Arms or Double Egress applications the header should be located 1-1/4' from top of the door.

The header must be plumb and level and fastened securely to the mounting surface. Fasteners will vary with the mounting surface but the unit is supplied with fasteners that provide adequate support for most applications. Drywall mounting surfaces or stucco surfaces will require additional backing to support the header.

PULL ARM TRACK OR DOUBLE EGRESS PAIR



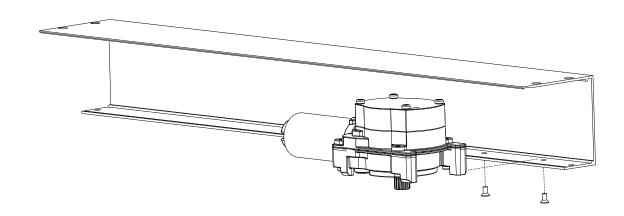




INSTALLING THE OPERATOR

TO INSTALL THE OPERATOR:

Align the bottom two holes with the two holes on the header and fasten the operator to the header with $(2) \#1/4-20 \times 1/2$ " FH screws.

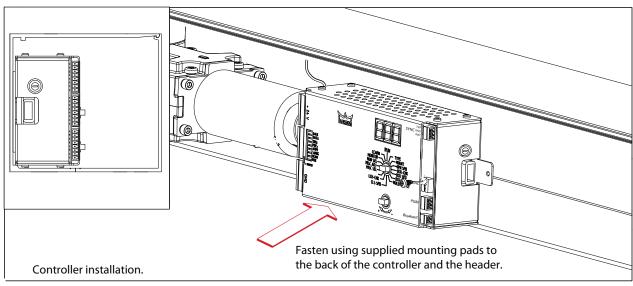


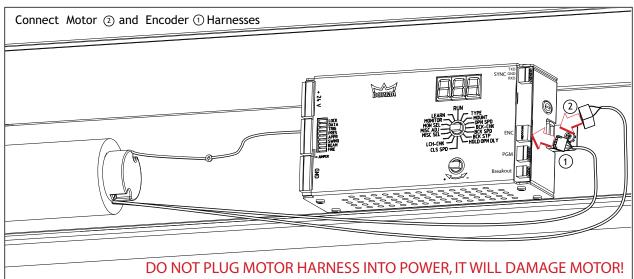
WARNING: DO NOT ROTATE THE SHAFT, INSTALL THE ARM OR CONNECT TO THE DOOR WITHOUT FIRST CONNECTING THE CONTROLER TO THE OPERATOR.

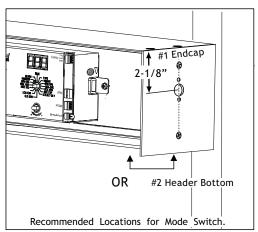
THE CLOSING SPEED CONTROL IS IN THE CONTROLER, ALLOWING THE OPERATOR TO SLAM CLOSED WITHOUT THE CONTROLER CONNECTED MAY RESULT IN DAMAGE TO THE OPERATOR.

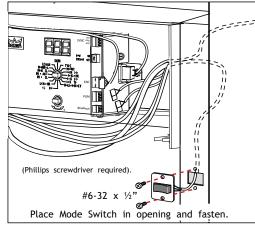


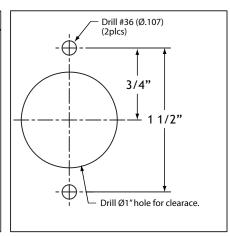
INSTALL THE CONTROLLER and ON OFF HOLD SWITCH (PROGRAM)







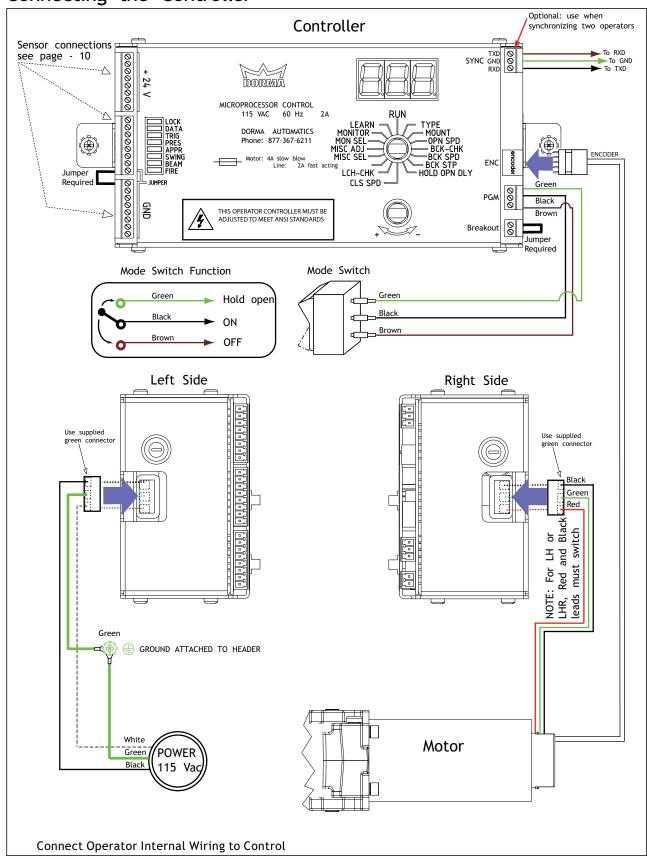




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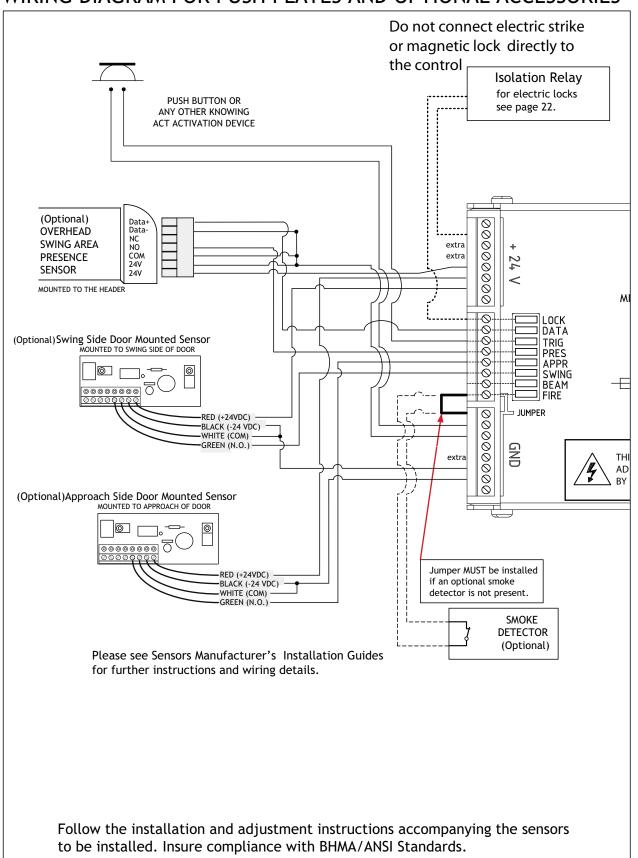


Connecting the Controller





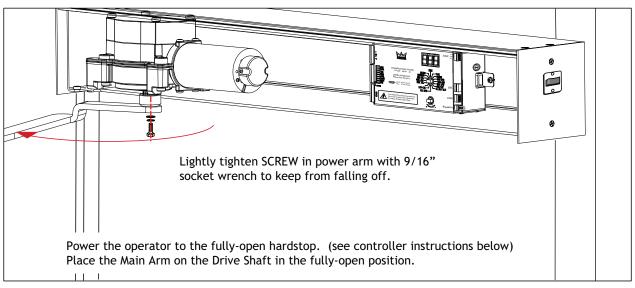
WIRING DIAGRAM FOR PUSH PLATES AND OPTIONAL ACCESSORIES



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Power the Operator to Hardstop



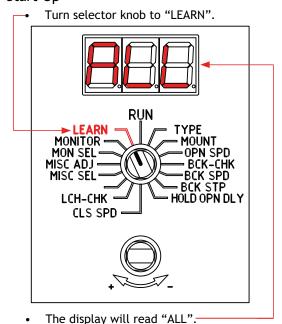
Using the Controller to Power the Operator to Hardstop

The purpose of this feature is to drive the operator to the fully-open hardstop. It is also used to load the operator spring during the installation.

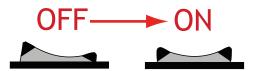
Basic Requirements

- All cables are connected.
- Swing area is clear of obstacles
- Mode switch in position "OFF".
- Power connected.

Start-Up



 Turn mode switch from "OFF" to the "ON" position.



- The operator pinion will now begin turning slowly in the open direction, and stop indefinitely at the hardstop.
- Connect the arm to the operator pinion with the door opened to 5 degrees beyon the desired fully open position.
- When installation procedure is complete, turn the mode switch to the "OFF" position to power down the operator and close the door.

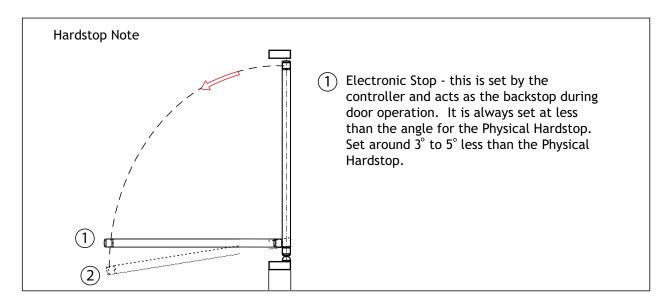
If the control will not rotate to the hardstop the control may need to be reset to default settings.

Reseting the control to defaults.

REFER TO BOTTOM OF PAGE 19 FOR DETAILS



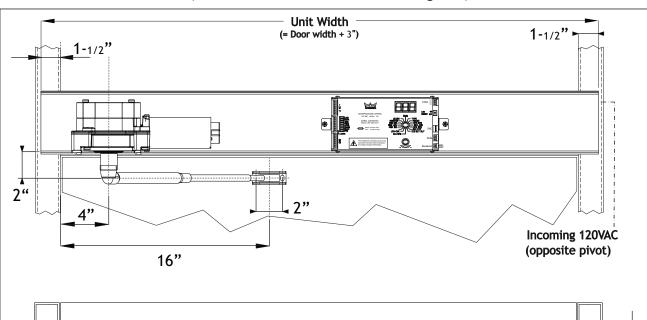
ELECTRONIC STOP SETUP DETAILS

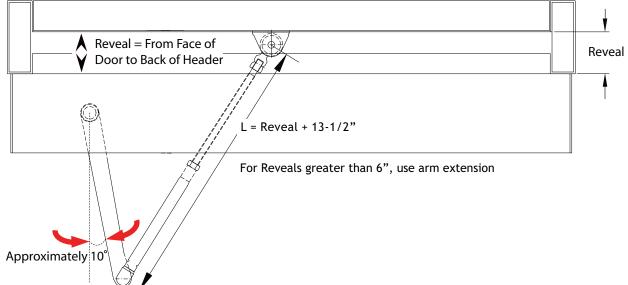


The ED 700 has two stops one being mechanical and the other being a software controlled stop when programing the door keep in mind that the softstop has to 3 to 5 degrees before the hardstop. Once programed the door will stop at the software stop if it is pushed past this point it will return to the softstop. If you can not swing the door past 90 degrees there are alternative options to preload the arm please contact technical services for assistance.



Mount the Push Arm (Install arms with doors at 95 degrees)





The shoe is mounted to the door 2" below the frame. 16" from the pivot side of the door to the centerline of the shoe. Mark the mounting holes for the shoe and secure it to the door using the fasteners provided. Next adjust the connecting arm to the proper length by adding 13-3/8 to the reveal.

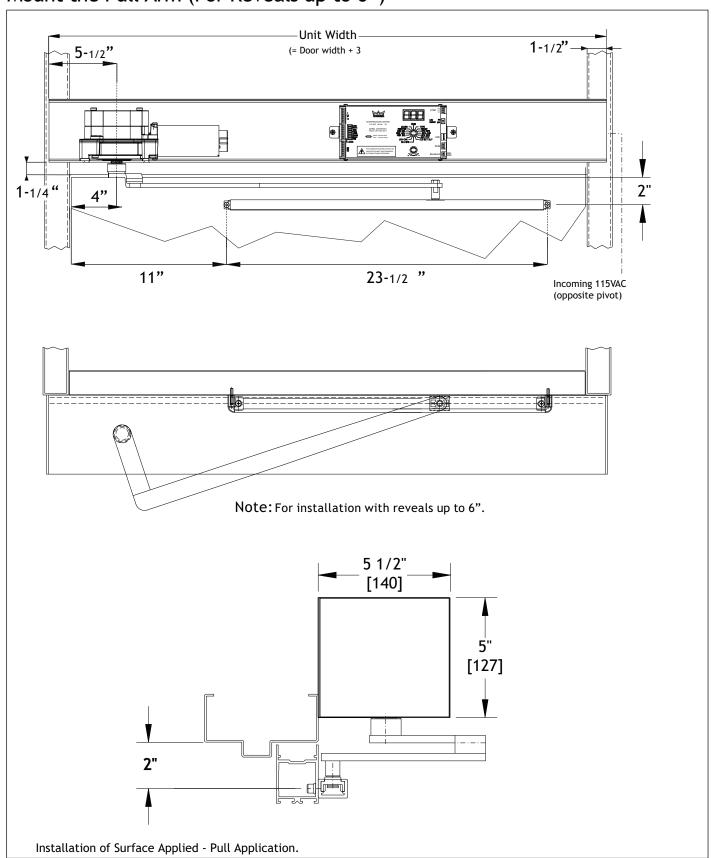
To install the arm rotate the operator to the full open position, see page 11. With the operator against the hard stop swing the door open past 90 degrees. With the connecting arm attached to the shoe on the on the door attach the arm to the operator with the door at 95 to 105 degrees and secure the arm to the door. Turn the door off and let it close, once the arm is attached complete the basic set up on page 17.

Make sure the dive arm is not at 90 degrees in relation to the header when the door is closed adjust the connecting arm if necessary.

Installation of Surface Applied - Push Application.

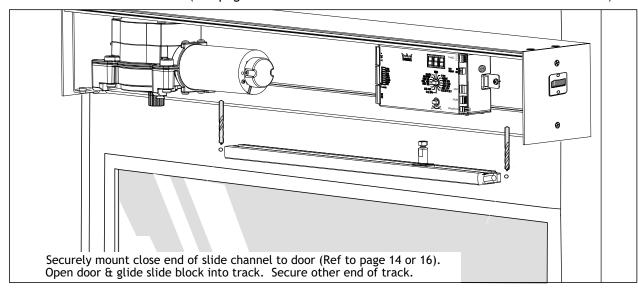


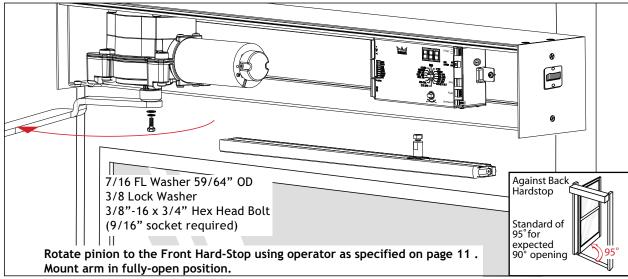
Mount the Pull Arm (For Reveals up to 6")

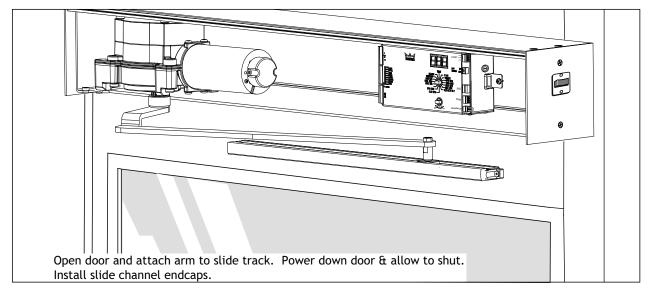




Mount the Pull Arm (See page 16 for 0" reveal arm or 14 for 0"- 6" reveal arm dimensions)

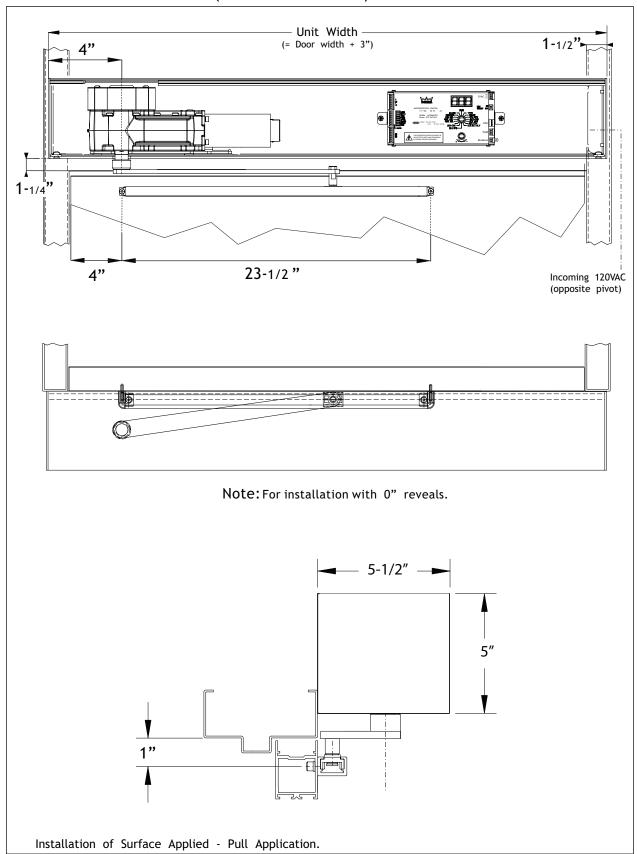








Mount the Pull Arm (For 0" Reveals)





Basic Set-Up

The purpose of the initial set-up is to bring the ED700 to a point where it can open the door.

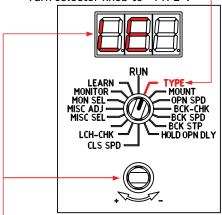
Preparation for Initial set-up

BasicRequirements

- All cables are connected.
- Swing area is clear of obstacles
- Mode switch in position "OFF".
 - Power connected.

Start-Up

• Turn selector knob to "TYPE".



Turn dial knob to select "Low Energy" or "Power Assist.

The corresponding letter codes are "LE" or "PA".

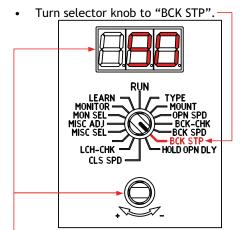
Turn selector knob to "MOUNT".

RUN

LEARN
MONTOR
MON SEL
MON SEL
MON SEL
MISC SEL
MISC SEL
BCK SPD
BCK STP
LCH-CHK
CLS SPD
CLS SPD

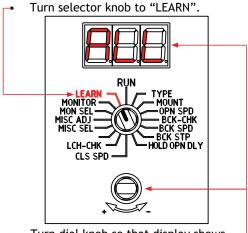
LCH-CHK
C

Turn dial knob to select "Push or Pull mount.



Turn dial knob so that display shows "90".
 This is your back stop in degrees.

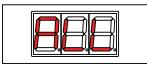
NOTE: If the door is to be set to an angle other than 90,° measure the angle the door will open to and input that value in the step above.



- Turn dial knob so that display shows —
 "ALL". This will cause a full Learn Cycle.
- Turn mode switch from "OFF" to the "ON" position.



• The control box display will show "ALL", indicating that a Learn Cycle is in progress.



The door will stay closed for 10 seconds to let you get into position to catch it at the desired Back Stop.

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ED700 ■ Low Energy Automatic Swing Door



Basic Set-Up

 The door will begin to open slowly. Stop the door at the desired Back Stop position until it begins to close back to latch position.



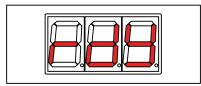
Please let the door close. Stand clear. Let go of the door and MOVE OUT OF THE WAY!



The door will now SLAM open to 45,° to measure it's inertia.



 When the controller has learned all of it's selfadjustments, the display will show "rdY".



 The door will now cycle open and close continuously. The door has reduced obstacle detection, DO NOT INTERFERE WITH DOOR!

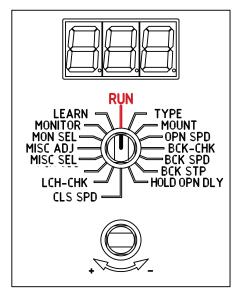


 If you are satisfied with the door's operation, turn the mode switch to the "OFF" position and allow the door to close completely.



NOTE: If door motion is undesirable, or if adjustments need to be made to meet ANSI guidelines, refer to page 19, 26 and 27 for additional control settings.

Note: In some situations you may have to assist the door during learn cycle during the initial opening. • Turn the selector knob to "RUN".



• The display will show the present state of the opener.

	·				
CODE		STATES	DESCRIPTION		
C	C L d Closed		Closed	Door is at Latch-Stop	
0	Р	n	Opening	Opener is opening to Back-Stop	
Ρ.	. A. Power Assist			User may open door with opener's assistance	
0	Р	d	Opened	Opener is holding door at Back-Stop	
С	L	r	Closer Acts as a passive closer, letting us open door manually, closing the d		
C.	0	b	Closing Opener reacted to obstacle during Obstacle closing cycle		
0.	0	b	Open Opener reacted to obstacle during Obstacle opening cycle		
Α	┙	L	Learning Opener is learning		
C	У	C	Cycle	Opener is going through a learning cycle	
r	S	t	Reset	Opener is being reset	

NOTE: If there is an exception to it's operation, it will show a code for it. If an exception code is displayed, see pages 26 and 27 for details.

- Test the opener's operation.
- Test that the door meets ANSI standards.

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 FOR ADDITIONAL SET-UP OPTIONS, SEE CUSTOMIZED SET UP PAGE 20.

The door is now ready for normal operation.



Customized Set-Up

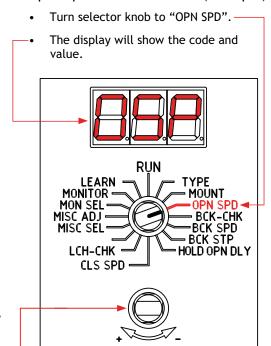
The purpose of the customized set-up is to change the default ED700 settings. This can be done during or after a completed learn cycle.

Parameters

- Open speed to Back-Check
- Back-Check angle
- · Deceleration through Back-Check
- · Back-Stop angle
- Close Delay
- Closing speed to Latch-Check
- Latch-Check angle
- Using the example to the right and the table below, make parameter changes as desired. When finished, return the selector knob to "RUN", or do another "LEARN" Cycle if the door's motion has been poorly affected.
- For further Set-Up options contained in "MONITOR", "MON SEL", "MISC ADJ", and "MISC SEL", please pages 27 and 28 for parameter details.

To adjust parameters in Miscellaneous selections turn the selector knob to "MISC SEL" and select the desired parameter, then turn the selector knob to "MISC ADJ" and adjust the parameter using the dial knob. To select the function to be monitored turn the dial to "MON SEL" then select the function using the dial knob. Then turn the selector knob to monitor.

Open Speed to Back-Check (example)



 Turn the dial knob to select the desired speed in DEGREES/SECOND.

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Once adjustments are completed verify that a learn cycle is not required by turning dial knob to learn. If learn cycle is not required turn dial to "RUN" and turn program switch off and on.

Selector	Code Meaning	"Dial" Knob Function	DISPLAY	UNITS
OPN SPD	Open Speed	increment/decrement	Opening speed to Back-Check	°/s
вск-снк	Back-Check	increment/decrement	Back-Check angle	0
BCK SPD	Back-Speed	increment/decrement	Opening speed to Back-Stop, or Off	°/s
BCK STP	Back-Stop	increment/decrement	Back-Stop angle	0
HOLD OPN DLY	Hold Open Delay	increment/decrement	Time at Back-Stop	S
CLS SPD	Close Speed	increment/decrement	Max closing speed to Latch-Check	°/s
LCH-CHK	Latch-Check	increment/decrement	Latch-Check angle	0

RESETTING THE CONTROLLER

To RESET the controller, turn the selector knob to "MISC SEL" and turn the dial knob until "rst" is displayed.
 Now turn the selector knob to "MISC ADJ", and turn the dial knob from "ON", <u>ONE</u> click clockwise to "OFF".
 The controller has now been reset.



Setting Up Simultaneous Doors

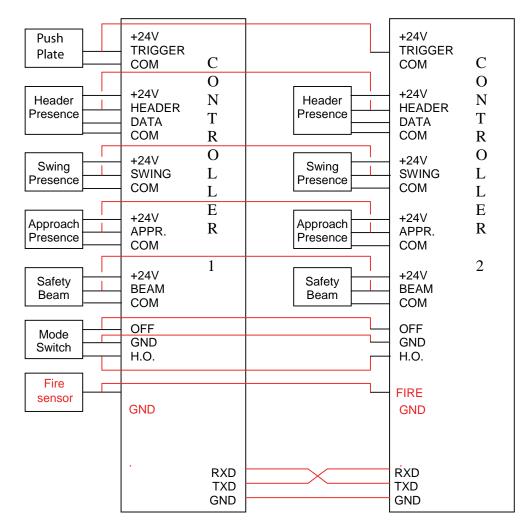
The purpose of the this setup is to synchronize two side-by-side doors for simultaneous operation.

Connecting the Controllers

- Connect the grounds of the two controllers together.
- Connect the knowing act activation device to both controllers in parallel.
- Connect the presence sensor to both controllers in parallel, except for the Data Line.
- Let each controller power it's presence sensors
- Connect a single program switch to both doors in parallel.

- Connect the RXD line of each controller to the TXD line of the other controller.
- If you use the "Fire" input, connect the Fire sensor to both controllers.
- If you use the "Breatout" input, connect the Breakout switch to both controllers.
- Connect both controllers to the same AC power source.
- Program the two controllers identically

(Continued on following page)





Setting Up Simultaneous Doors

 Run a "Learn" cycle on both controllers. It's easier if they are done separately.

If it's desired that the doors open and/or close differently, continue on this side of the page. If not, skip to the top of the column to the right.

To have the doors open at different times set the OPD Open Delay parameter in miscalenous adjustments on the door you want to delay.

To have the doors close at different times increase the Hold Open time or slow the Closing Speed of the door you want to close last. To assure synchronization of the doors an external time delay may be required to assure that the time delays remain constant.

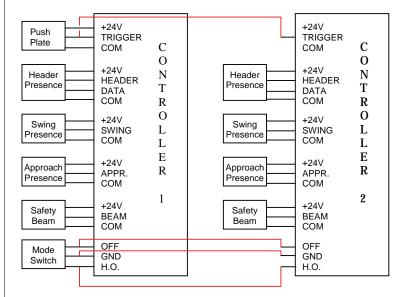
- When both openers are ready, trigger an automatic opening and, as the doors are opening, block one of doors. The other door will stall. Once it stalls let the door you were holding go and both door will open. Once closed trigger the door again and stop the opposite door.
 After completing both doors opening cycles complete the same process for the closing cycles.
- This will let each opener tell the other of having detected an obstacle, so that each will know of the presence of the a second door. Knowing that, the operators will extend the Hold-Open time to ensure that both doors remain in synchronization.

Setting Up Semi-Independent Doors

The purpose of the this set-up is to synchronize two side-by-side doors for semi-independent operation. This means that the doors will open and close at the same time, but will react to obstacles independently.

Connecting the Controllers

- Program the two controllers identically (for coordinated doors - one must close first increase slightly the Closing Delay of the controller for the door that must close last)
- Connect the grounds of the two controllers together.
- Connect one door's presence sensor to the controller for that door.
- Connect the push plates to both controllers in parallel
- Let each controller power its presence sensors
- Connect a single program switch to both controllers in parallel.
- Power the controllers from the same AC power source.



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Electric Locks

The purpose of the this section is to setup an electric lock. The controller may power an electric strike or magnetic lock through a relay or access control device.

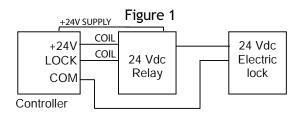
Connecting a Electric Strike

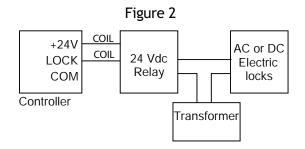
- If the installation has a 24 Vdc electric strike plate (electric lock), the controller is able to power it through a switching relay. (See Figure 1)
- For AC or other voltage DC locks, you will need a seperate transformer and a relay. (See Figure 2)
- The "Open Delay" must be set per manufacturer's specification.
- The controller drives the electric lock from when it recieves a valid trigger (at Latch-Stop), while waiting to open (because of a non-zero Open Delay, or because the swing area is occupied) and until some time after the door has begun to open. It also drives it if the door reaches Latch-Stop as it is retriggered.
- The LOCK LED lights up while the controller drives an electric lock, whether or not a lock is actually present.

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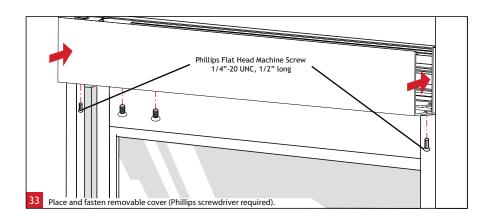
NOTE: For wiring locations on controller, see page 10.





Final check/ Install Cover

- •Test all sensors, If applicable, along with door operation to ensure they are working properly.
- Provide safety list similar to that provided by AAADM.
- •Make sure that all electrical wiring is connected correctly and away from moving parts.





Technical Data

Operation Instructions

1. Program Switch

HOLD OPEN OFF

Switch is in position:



Continuous Open Operation The door opens to the full opening position and remains in this position.



When an activation signal is detected from the knowing act activation device the door opens to the full opening position. After the hold open delay expires the door closeses.



The door stops immediately when the switch is placed in this position and closes slowly under spring power. The closing speed is limited. The user may open the door manually.

Restart after power failure When the power is turned ON, the ED700 goes back to normal operation.

2. Care and Maintenance

Prior to first use and periodically thereafter, but at least once a year, the system must be checked and maintained by a qualified, knowledgeable technician. During the cleaning operation the Program Switch must be either in the OFF or HOLD OPEN position to avoid automatic movements of the door wings. Always disconnect the appliance before servicing. The entire swing door assembly (Aluminum, Glass, Covers) can be cleaned with a moist towel and common commercial cleaners. The safety sensors are to be cleaned with a dry, soft, non-abrasive towel. The floor area near the swing door panel, including the threshold must be kept clean.

- Self Help Troubleshooting of Problems
 If the door does not open or close, check the
 following:
 - Is the line power in order?
 - Is the Program Switch in the proper position?
 - Is the safety sensor path clear and clean?
 - Is the door blocked by obstacles?

If all of the above check out OK call a qualified Service Technician.

ED700 MUST BE SET UP WITHIN THE BHMA/ANSI 156.19 STANDARDS

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SIGNAGE AND SAFETY CHECK



Figure



Figure 2



Figure

Decals T e door s o ld a e traffic decals ro erly dis layed as follo s

- A in in doors ser in to ay traffic s all e marked it a decal isi le from ot sides of te door it te ords

 CAUTION AUTOMATIC DOOR. See Figure The words

 Automatic Door must e at least 2 in. letters. It should e mounted on the door at a height of in. 4 cm cm from the floor to the centerline of the sign the sign shall e a minimum of in. .2 cm in diameter and made with lac lettering on yellow ac ground.
- B. When a separate wall switch is used to initiate the operation of the door operator the doors shall e pro ided with signs on oth sides of the door with the message ACTIVATE SWITCH TO OPERATE. The lettering shall e white and the ac ground shall e lue. Figure2
- C. An AAADM safety information stic er should e affi ed on the door or frame in a protected isi le location. If you need additional decals for your automatic doors call your automatic door supplier.
- 2. Acti ating Switch. nowing Act

Doors e uipped with a manual operate switch shall when acti ated hold the door open for fi e seconds minimum after release of acti ating switch.

. House eeping.

Chec the door area for tripping or slipping ha ards. Chec all door panels for damage. Mae sure all coers are properly secured. There should enoulletin oards literature rac smerchandise display or other attractions in the door area that would interfere with use of the door.

Traffic Patterns.

O ser e traffic patterns. Plan routing so people enter and e it in a straight approach directly onto the center of the door opening.

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Technical Data

Operator		
Line Input Power supply for external sensors Fuse Ambient Temperature	100 to 125V AC, 60 H 24 V DC, 0.8 A 2 A fast blow 77 °F(25 °C)	dz, 2 A max.
Adjustments	min.	max.
Opening time to Back-Check Closing time to Latch-Check Delay before Opening Delay before Closing Back-Stop Angle Back-Check-Angle Latch-Check-Angle Wall-Mask-Angle Extra Power Hold Torque	2.8 s 3.0 s 0 s 5 s 60° 10° 60° 40 ft-lb	8 s 7.5 s 3 s 25 s 120° 120° 30° 115° 240 ft-lb
Door	min.	max.
Door height Door weight Door mount - single Door width Door mount - pair Door width	84" 60 lbs (27 kg) Push or Pull 37" Push or Pull 62"	102" 200 lbs (90 kg) (Surface Applied) 49" (Surface Applied) 98"

C	1	T	I D - + -
Control	ıer	Technica	บ เมลเล

Controller Ted	chnical	Data		
Power input				
•		e terminal block		
Line Input 100 to		125Vac, 60 Hz, 2 A max.		
Fuse	,	t (5mm x 20mm)		
DC power out		800 mA out, always on,		
	short ci	rcuit protected, not regulated		
Control inputs				
Connector		terminal blocks		
Active low input		rigger (radar er push plate)		
	•	rigger (radar or push plate) se, jamb mounted sensor		
		Side, door mounted sensor		
	-	ch Side, door mounted sensor		
	Hold-Or	•		
	Off			
	Safety E	Beam Sensor		
Polarity		active low or closed contact to		
		ground		
Active threshold		< 0.8 Vdc		
Inactive threshol		> 2.0 Vdc		
Closed contact c	urrent	10 mA surge, 1 mA steady		
0		state		
Open circuit volt	age	5 V		
ESD protection Overvoltage prot	tection	±5 KV, human body model ±5 Vdc or 5 Vac, continuous,		
Overvoltage prof	ection	with respect to GND		
Smoke (Kill) link	input:	With respect to divi		
Polarity	прист	normally closed contact to		
- ·· · -,		GND		
Closed contact c	urrent	2 mA		
		= 10.1		

±5 KV, human body model

1 LED/Sensor, 3-Digit Display

±5 Vdc continuous, with

respect to GND

Terminal Designations				
1-8	+24V			
9	Electric Strike	-Output		
10	Data (Zone)	-Output		
11	Trigger (or radar or push plate)		-Input	
12	Presence (jamb mounted sensor)		-Input	
13	Safety Side (door mounted sensor)		-Input	
14	Approach Side (door mounted sens	or)	-Input	
15	Safety Beam		-Input	
16	Kill (Smoke) link		-Input	
17-24	GND			
Program	switch			
3	Hold Open	- Ir	nput	
2	GND			
1	OFF	- Ir	nput	
Breakou				
1		I.C.)		
2	GND			
Motor				
1	M+			
_	M-			
3	Hot 100 to 125 VAC, 60 Hz, 2	A n	nax.	
2 Motor	t Breakout Switch GND M+ M-	-(N	I.C.)	

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ESD protection

Indicators

Overvoltage protection

ED700 ■ Low Energy Automatic Swing Door



ED700 Controller Code Information

DISPLAY	SECTION	FUNCTION	DEFINITION AND NOTES
DIOI EXT	02011011		
			Low Energy operation, switch on side of control must also be turned to LE for Low Energy function. Adjusted
LE	Run	Low Energy	according to ANSI 156.19.
PA	Run	Power Assist	Power Assist operator will assist in manual operation but will not open the door.
OCN PSH	Mount Type Mount Type	OCM Push Arm	Overhead concealed, direct drive application.
PUL	Mount Type	Pull Arm	Push or Out arm application, door swings away from the header. Pull Arm or In arm application, door swings under the header.
102	Mount Typo	T GII 7 GIII	The controller logs the last 16 unusual events, turn dial knob counter clockwise to view. This feature is helpful in
LOG	Mon	Log	troubleshooting problems. See Event at end of form.
ObS	Mon	Obstacles	Total obstacle count up to 255; to reset, turn dial knob counter clockwise. Remember to reset if you adjust O.Ob, or C.Ob.
			Total number of complete cycles up to 9,999,999 that the controller completed. Turn dial knob clockwise to
CYC	Mon	Number of Cycles	view complete number.
rEL	Mon	Softward Version	Displays the software release version the controller contains.
AnG	Mon	Angle	Approximate door angle in degrees. Setting and actual opening point must agree for proper operation.
CUr	Mon	Current	The motor current exceeded maximum for too long.
HLd	Misc. Selections	Hold	Power Hold function, adjustable force setting to hold the door against the latch or closed position OFF is spring tension only.(OFF 0.01 AMPs - 0.70 AMPs)(OFF is default after reset)
PnG	Misc. Selections	Push to Open	Push to open feature opens the door automatically when it is pushed off the latch stop. (Vas - No. default is NO)
1110	IVIISC. GEIECTIONS	Opening	Push to open feature opens the door automatically when it is pushed off the latch stop. (Yes - No, default is NO) This menu is used to adjust Opening obstruction threshold. Value is displayed in TIME. Higher TIME means
oos	Misc. Selections	Obstruction	less sensitivity.(1.5 default, 0.2 - 2.0)
			This menu is used to adjust Closing obstruction threshold. Value is displayed in TIME. Higher TIME means
cos	Misc. Selections	Closing Obstruction	less sensitivity.(0.5 default, 0.2 - 1.1)
LIAI	Misc. Selections	Wall Mask Angle	Many adjust the angle at which point a gwing side door mounted concer is inhibited. (Default 65° 60 115°)
UAL	IVIISC. Selections	Wali Wask Arigie	Menu adjust the angle at which point a swing side door mounted sensor is inhibited. (Default 65°, 60-115°) Lock delay function used for doors with locks or panic hardware that have to release before the door opens.
OPd	Misc. Selections	Lock Delay	OFF equals no delay.(OFF is default, OFF is 0.1 Sec., 0.1 - 2.0 Seconds.)
OCd	Misc. Selections	Occupied Delay	How long the door stops after an obstacle or presence signal is received. (2 Sec default, 0.1 - 10.0 Sec.)
-150			Live with the deep have at healt the highest heaven heath for the deep live (50 Defects 40 407)
dEC	Misc. Selections	Deceleration Power Close	How quickly the door shows at back check; the higher the number the faster the door slows. (50 Default, 10-127)
PCE	Misc. Selections	Engaged	("no" or "yes") Turns power close on or off. ("no" is default after reset)
PCA	Misc. Selections	Power Close Angle	(off or 1 - 30 degrees) - Sets the angle the power close turns on at. (20 is default after reset)
PCd	Misc. Selections	Power Close Time Delay	(00.1 - 10 seconds) - Sets the time delay the power close starts after it achieves the proper power close angle. (4 is default after reset)
PCC	Mica Calactions	Power Close Current	(off or 0.01 - 1.00 Amps) - Sets the power closing amps in PCd area.(1.00 is default after reset)
FCC	Misc. Selections	Current	"Closing Current" (Off, or 0.01 - 1.00 Amps) - Sets the closing current while the door is at "any angle" of it's
CLC	Misc. Selections	Power Boost	closing cycle.(0.50 is default after reset)
0.	Mine Colontiano	Donat	Resets all parameters back to factory defaults. Reset the control before the learn cycle on new installs, or use the learn function to force a learn cycle on existing installations.
rSt ALL	Misc. Selections	Reset	, ,
ALL	Learn	Learn	The opener needs to do a full learn cycle, required on initial install see, rSt. The operator needs to do an open and closing cycle. The door will cycle after initial tune in until door is turned
CYC	Learn	Cycle	OFF and back ON.
rdY	Learn	Ready	The learn cycle is completed and the operator is ready.
	Event		No other event in the log.
bad	Event	BAD	A variable in the control is out of established limits.
Cob	Event	Closing Obstacle	The door encountered an obstacle while opening. See COS parameter in Misc. Selections.
CUr	Event	Over Current	The motor current has exceeded limits for extended period.
Dir	Event	Direction	The motor is wired backwards. The control is not receiving accorder information.
EnC ENE	Event Event	Encoder Breakout	The control is not receiving encoder information. An emergency link was broken. Breakout switch or Smoke detector activation.
FAI	Event	Controller	The control box has failed to function.
HEA	Event	Overheat	The motor overheated.
LOC	Event	Locked	The door encountered an obstacle at latch stop.
Ntr	Event	Motor	The motor is not connected, or is open.
OOb	Event	Opening	The door encountered an obstacle while opening. See OOS parameter in Misc. Selections.
PUP	Event Event	Obstruction Power Up	Automatic power up after a bad value was detected.
		. 5o. op	The operator is not set-up; a learn cycle is needed. If ready does not appear after a learn cycle, reset the
Set	Event	Set-up	control and try again.
SnG	Event	Presence Sensor	The swing side door mounted sensor was activated.
CLID	Event	Cot un	The operator is not set-up; a learn cycle is needed. If ready does not appear after a learn cycle, reset the
SUP to	Event Event	Set-up Time Out	control and try again. A state lasted longer then expected.
i U	_ + 0.11	. mno Out	r . state tasted forigor their expected.



If this unit is installed as a **LOW ENERGY** Operator, it is the installer's responsibility to adjust the operating parameters of the operator as to **NOT EXCEED** those in the **BHMA/ANSI 156.19** standard.

If these parameters are exceeded, additional safety devices MUST be installed to satisfy the requirements that are stated in the **BHMA/ANSI 156.10** standard for **FULL POWER DOORS**.

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