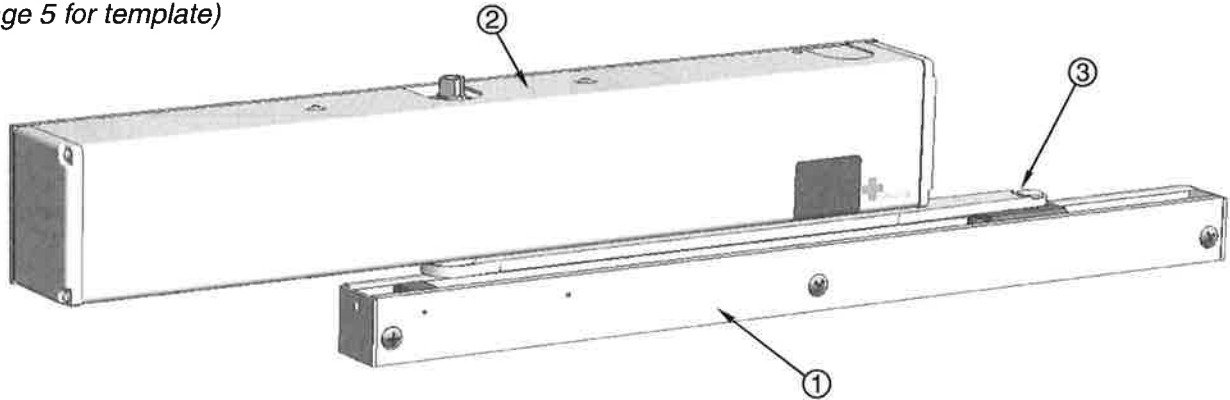


Pull Side Applications with Slide Track

(7110SZ, 7150SZ)

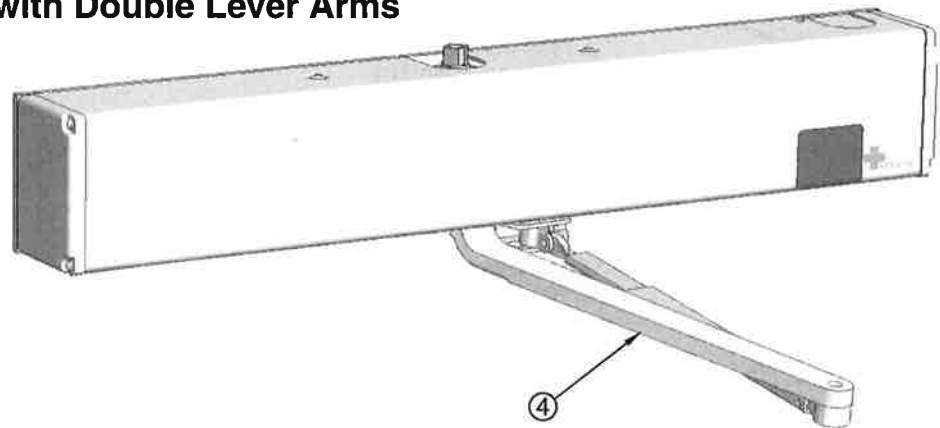
(see page 5 for template)



Push Side Applications with Double Lever Arms

(7120SZ, 7130SZ)

(see page 3 for template)

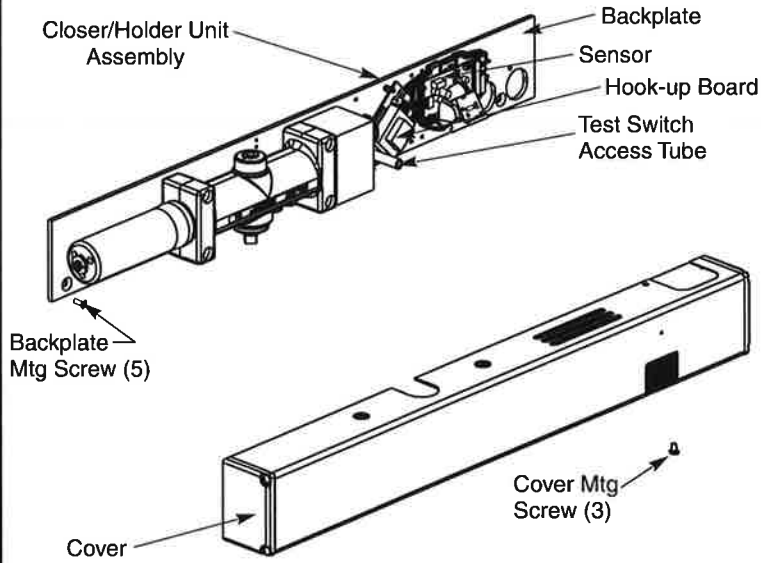


Item No.	Description
1	Track
2	Cover
3	Arm (Pull Side)
4	Double Lever Arm (Push Side)

Requirements:

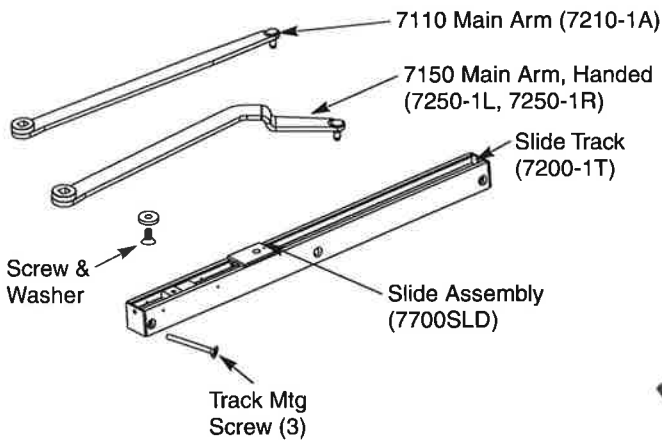
- Units are handed. Hand of unit and hand of door must be the same.
- Door must be hung on ball bearing butt hinges or 3/4" (19) offset pivots.
- Door thickness must be 1 3/4" (44) minimum 2 1/4" (64) maximum.
- Door must swing freely through the entire opening and closing cycle before beginning the installation procedure.
- Frame face must be a minimum of 2" (51).
- Ceiling clearance must be a minimum of 4" (102).
- Power input to unit must be of the same voltage as that stated on the unit.
- Unit to be mounted on interior of building in dry environment, maximum humidity of 95%.
- See NFPA70 for wiring requirements and NFPA72 for alarm system requirements.

Component Layout

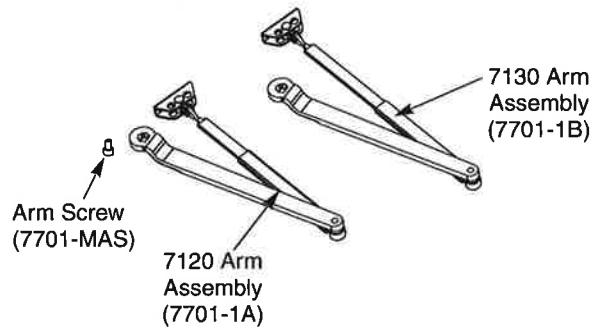


Preparation for Fasteners			
	Fasteners	Door or Frame	Drill-Sizes
Standard	1/4" - 20 machine screw	Metal	Drill: #7 (0.201" dia.) Tap: 1/4" - 20
	Sleeve nuts and bolts	Hollow Metal	9/32" (7 mm) through; 3/8" (9.5 mm) door face opposite to closer
Aluminum or Wood		3/8" (9.5 mm) through	
Optional	Through-bolts and grommet-nuts	All	9/32" (7 mm); 3/8" (9.5 mm) dia. x 3/8" (9.5 mm) deep on door opposite to closer

Included with 7110SZ and 7150SZ



Included with 7120SZ and 7130SZ



NOTE: Optional remote for Advanced Settings (sensitivity, door control mode) if required. (7100REM)

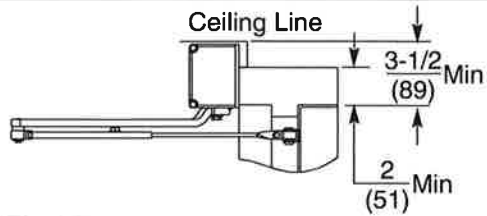
Certifications

UL228
UL10B

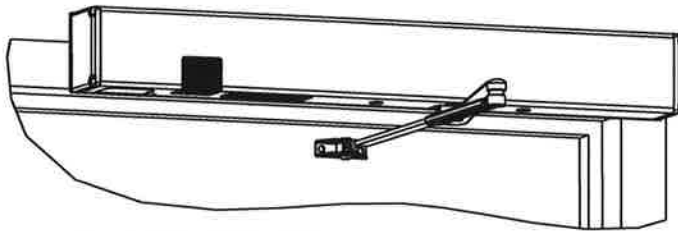
7120SZ, 7130SZ

Double Lever Arm

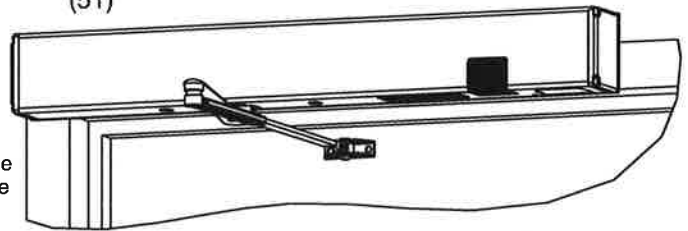
(Push Side)



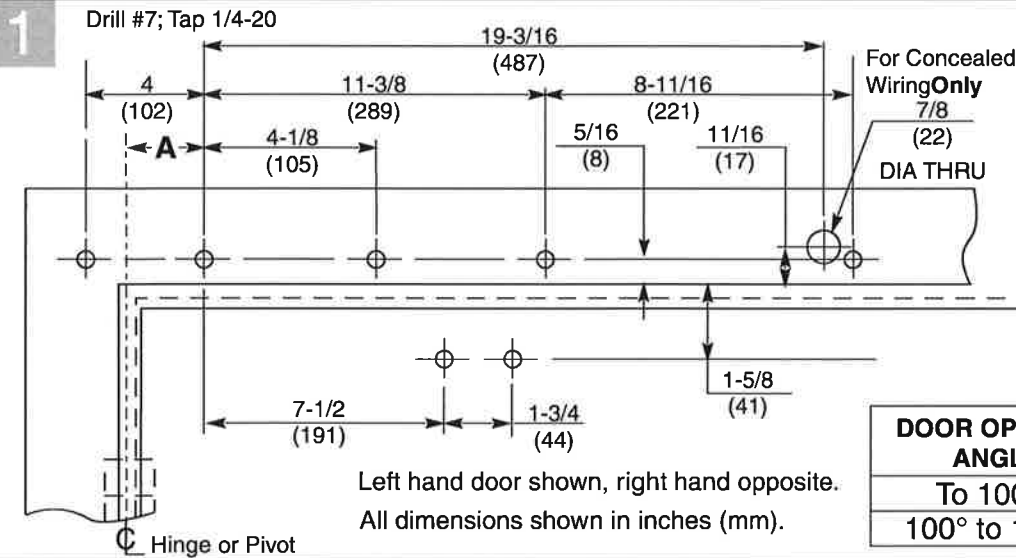
Use of an auxiliary door stop, by others, is suggested, but is required for doors opening beyond 110°.



RH - Right Hand Door
LHR - Left Hand Reverse



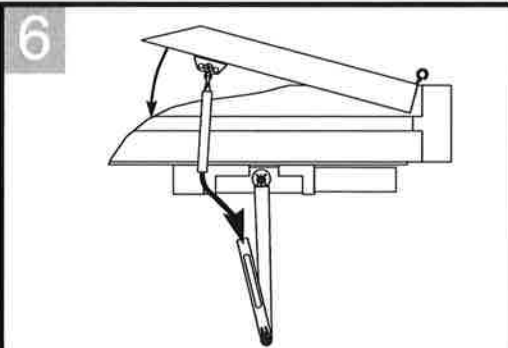
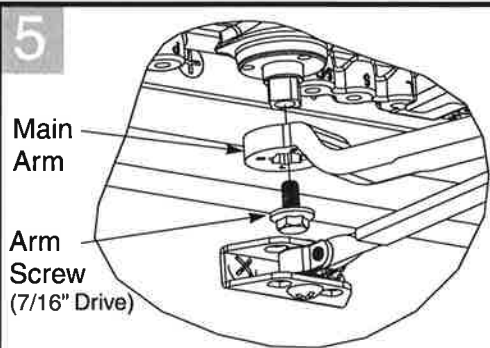
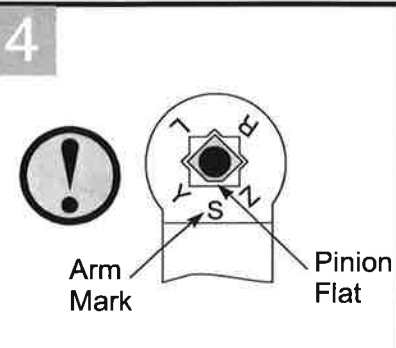
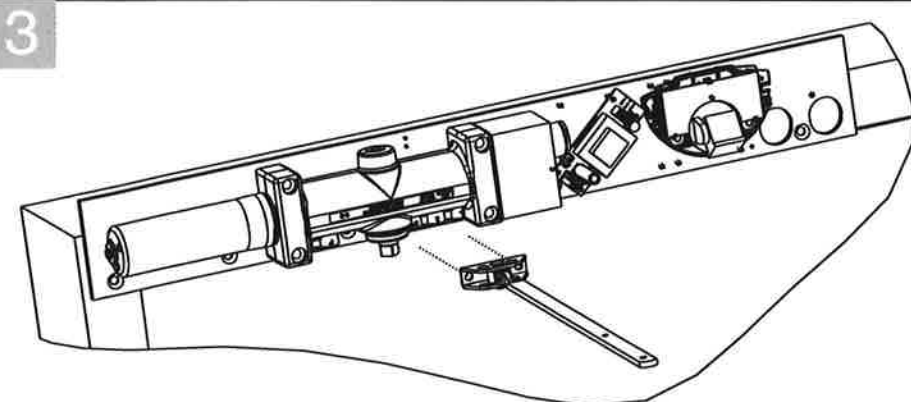
Left Hand Door - LH
Right Hand Reverse - RHR

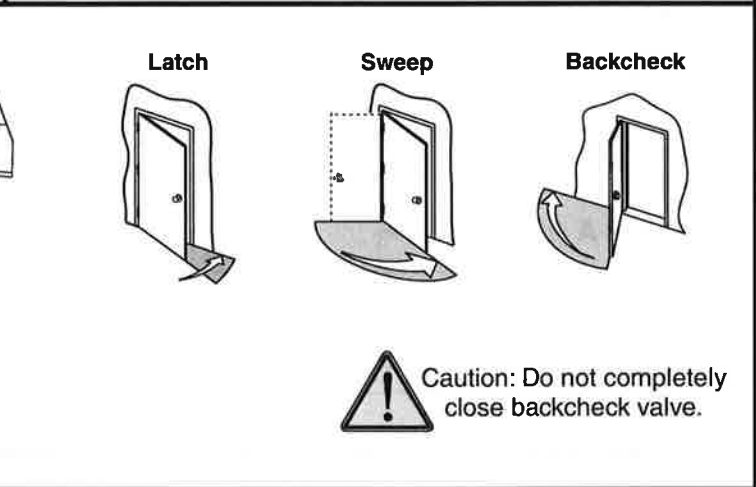
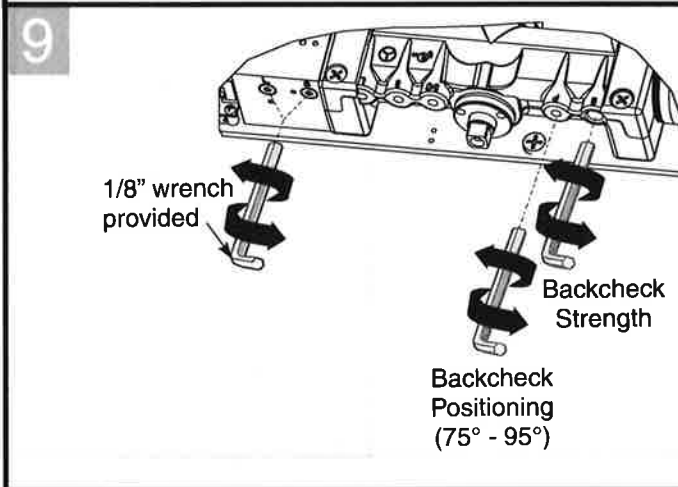
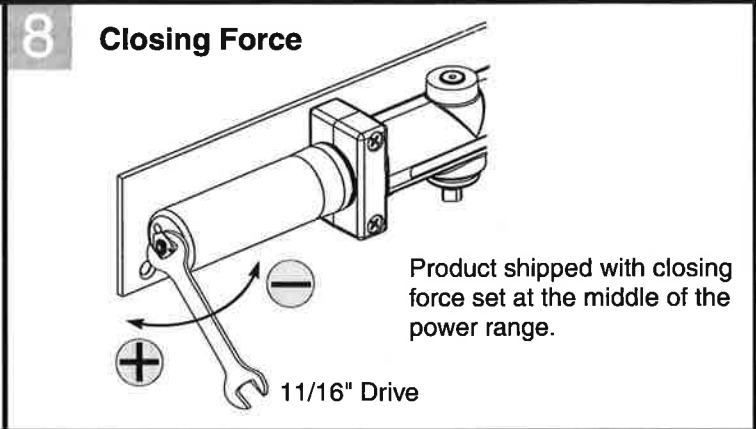
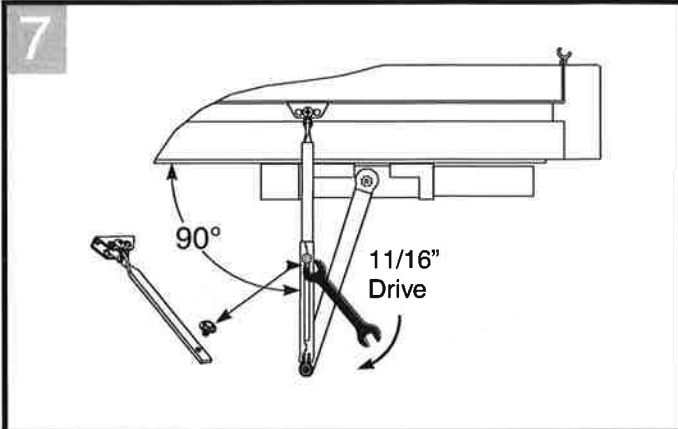


Left hand door shown, right hand opposite.
All dimensions shown in inches (mm).



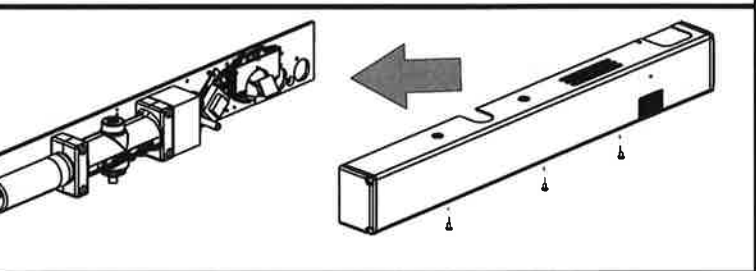
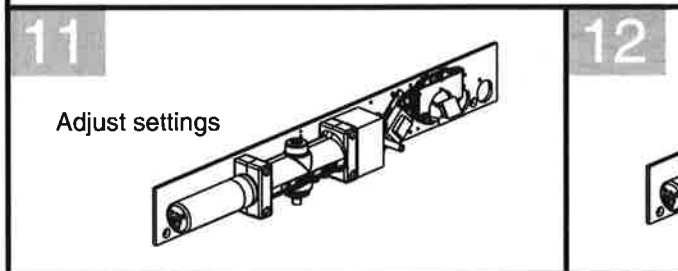
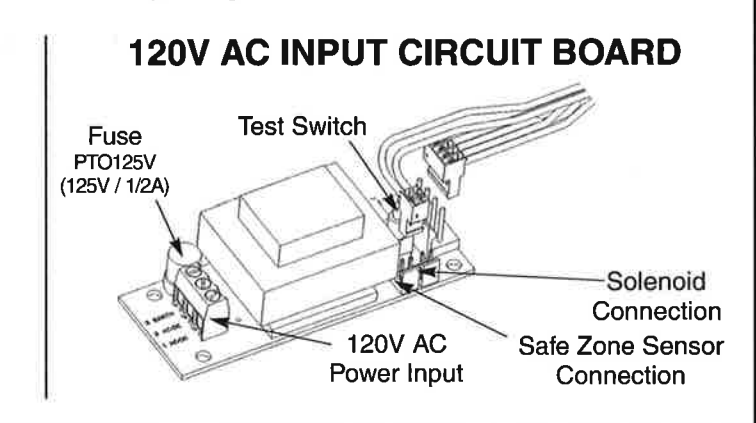
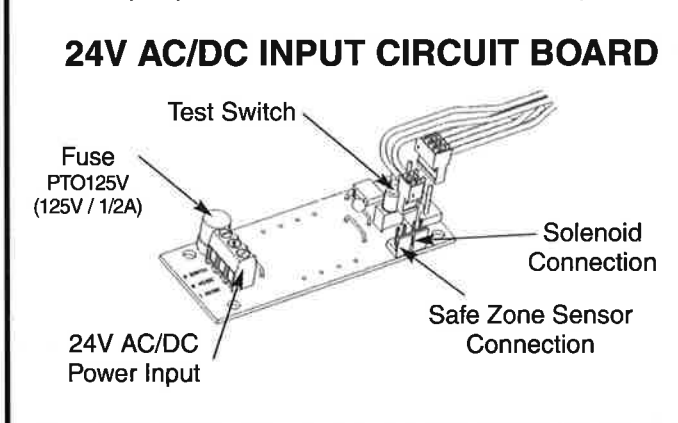
DOOR OPENING ANGLE	Dimension "A"	
	Inches	(mm)
To 100°	5-7/8	150
100° to 180°	3-1/8	80



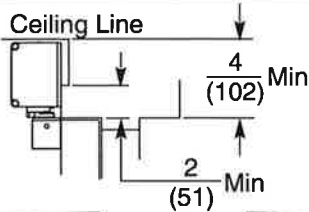


10 MAKE ELECTRICAL CONNECTIONS:

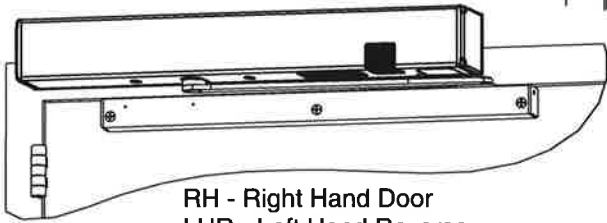
- Power input to unit must be of the same voltage as that listed on the label.
- All wiring connections use standard wiring practice conforming to local wiring codes.
- Maximum wire size is 18AWG.
- Make input power connections to the hook-up board terminal strip using illustrations.



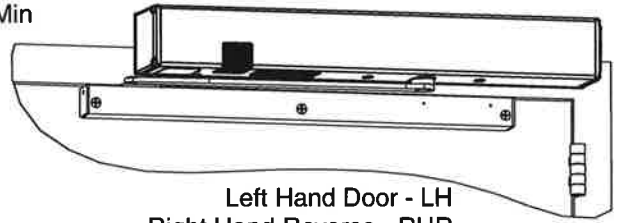
7110SZ, 7150SZ Track Mount (Pull Side)



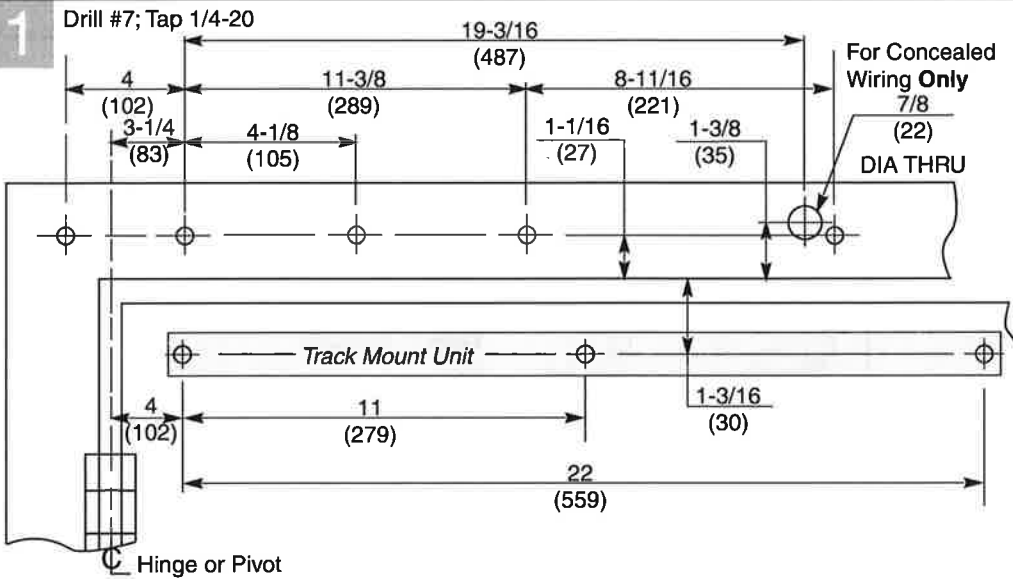
Use of an auxiliary door stop, by others, is suggested, but is required for doors opening beyond 110°.



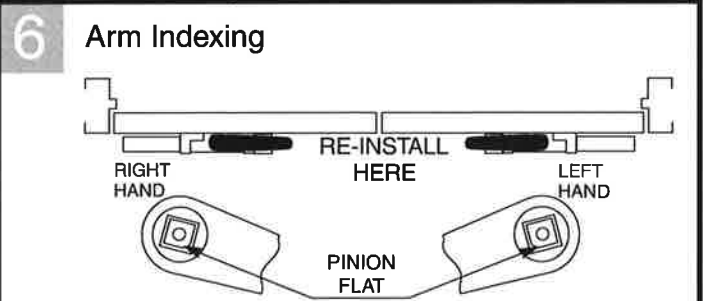
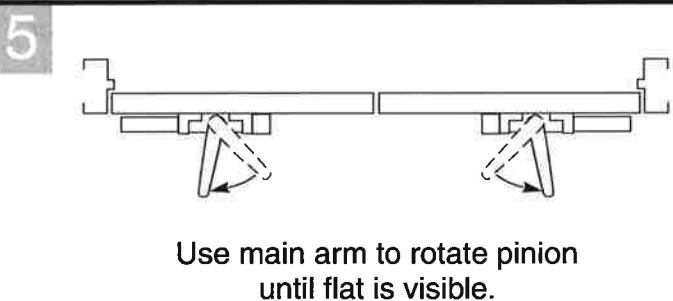
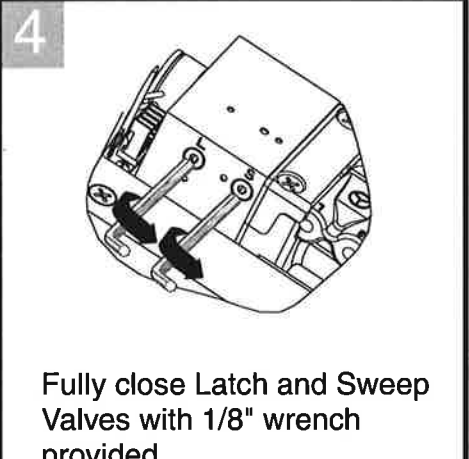
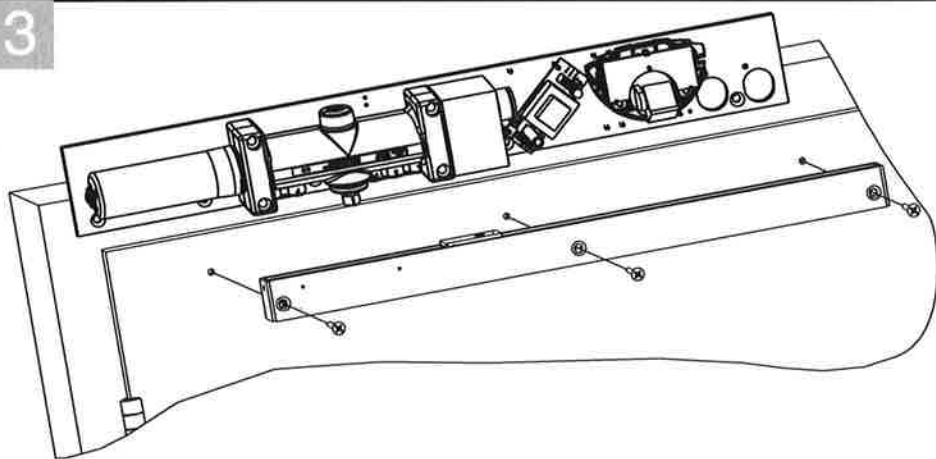
RH - Right Hand Door
LHR - Left Hand Reverse

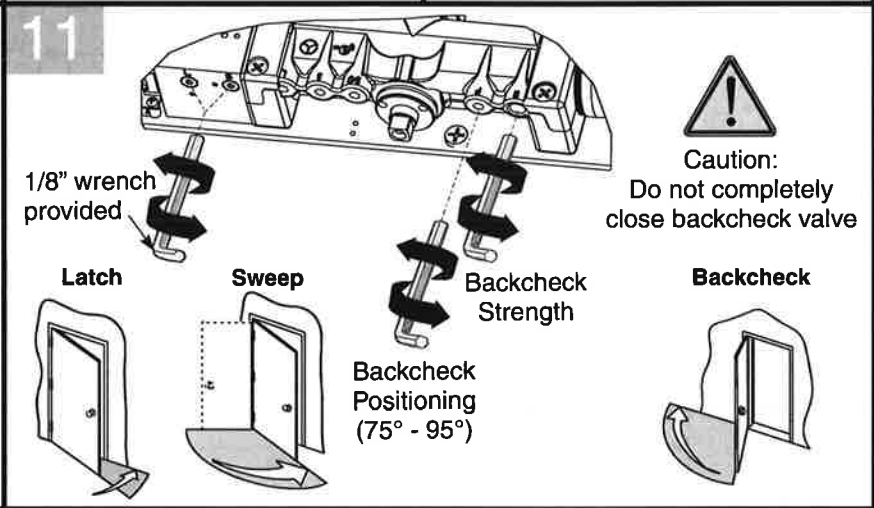
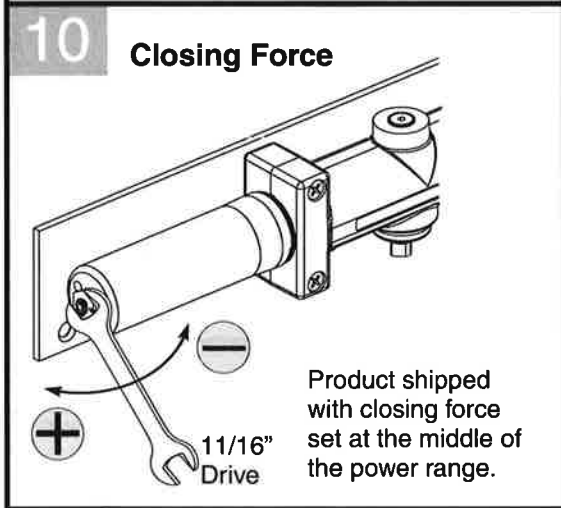
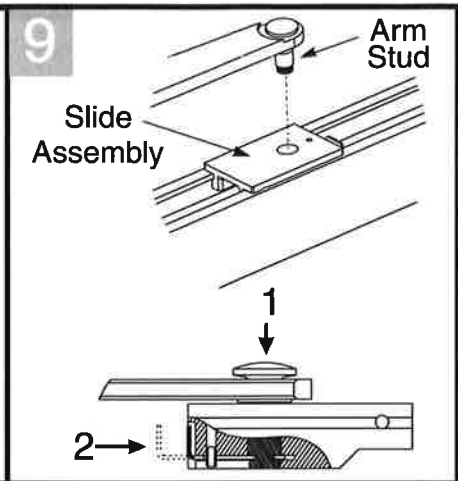
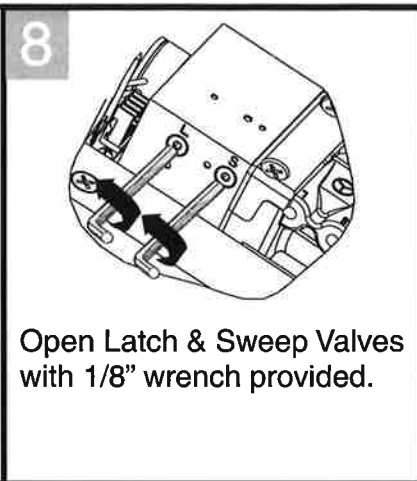
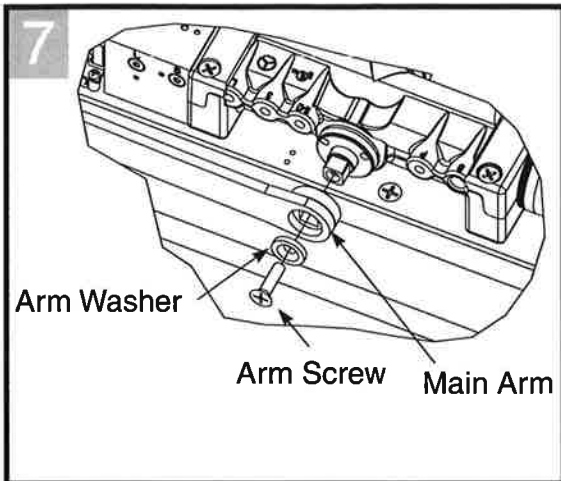


Left Hand Door - LH
Right Hand Reverse - RHR



- Right hand door shown, left hand opposite.
- All dimensions shown in inches (mm).





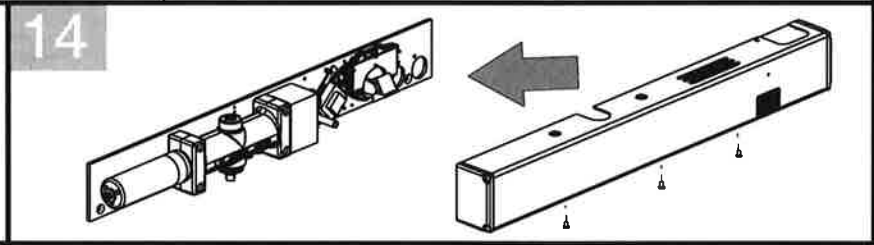
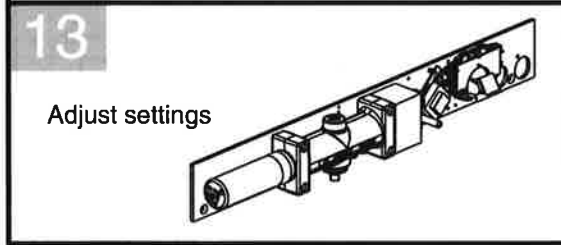
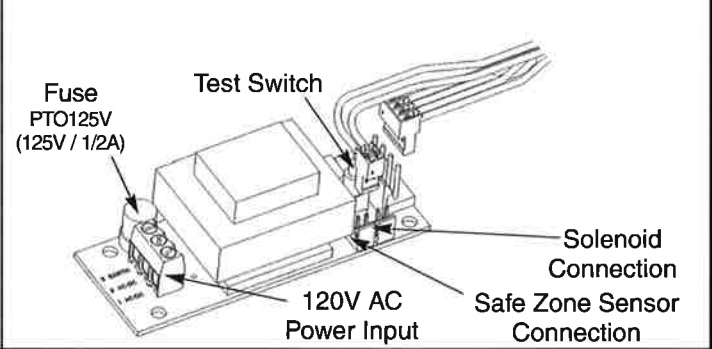
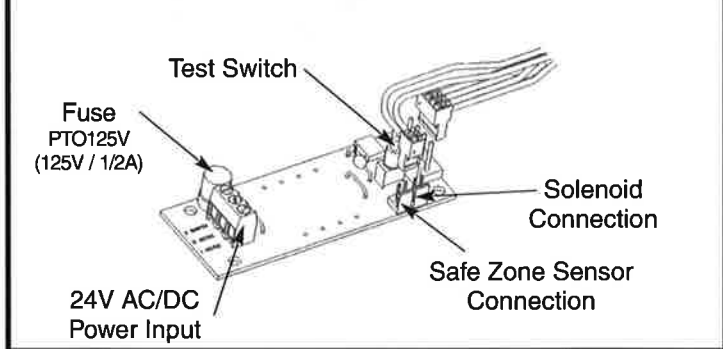
12 MAKE ELECTRICAL CONNECTIONS:

- Power input to unit must be of the same voltage as that listed on the label.
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- Maximum wire size is 18AWG.
- Make input power connections to the hook-up board terminal strip using illustrations.



24V AC/DC INPUT CIRCUIT BOARD

120V AC INPUT CIRCUIT BOARD



Sensor Technical Specifications

DESCRIPTION	SPECIFICATION
Frequency:	24.125 GHz
Supply voltage:	12 to 24 V AC: ± 10%: 12 to 24 V DC: -10% / +30%:
Mounting height:	Normal: 7'; Maximum: 10'-0"
Tilt angle:	0° to 90° vertical -15° to +15° lateral
Detection area:	
Wide	13ft (W) x 6.5ft (D)
Narrow	6.5ft (W) x 8.2ft (D) (supplied as optional)
Minimum detection speed:	2 in/sec. (measured in axis)
Power consumption:	< 2 W
Standard output relay:	
Max contact voltage	60 VDC / 125 VAC
Max contact current	1 A (resistive)
Max switching power	30W (DC) / 60VA (AC)
Hold time:	0.5 sec. to 9 sec. (adjustable)
Temperature range:	-4°F to 131°F
Dimensions:	4.75in (W) x 3.15in (H) x 2.0in (D)
Weight:	0.5lbs
Material:	ABS

Safety Precautions

- Shut off all power going to the header before attempting any wiring procedures.
- Maintain a clean & safe environment when working in public areas.
- Constantly be aware of pedestrian traffic around the door area.
- Always stop pedestrian traffic through the doorway when performing tests that may result in unexpected reactions by the door.
- Always check placement of all wiring and components before powering up to insure that moving door parts will not catch any wires and cause damage to equipment.
- Ensure compliance with all applicable safety standards upon completion of installation.

ELECTROSTATIC DISCHARGE (ESD) PRECAUTIONS



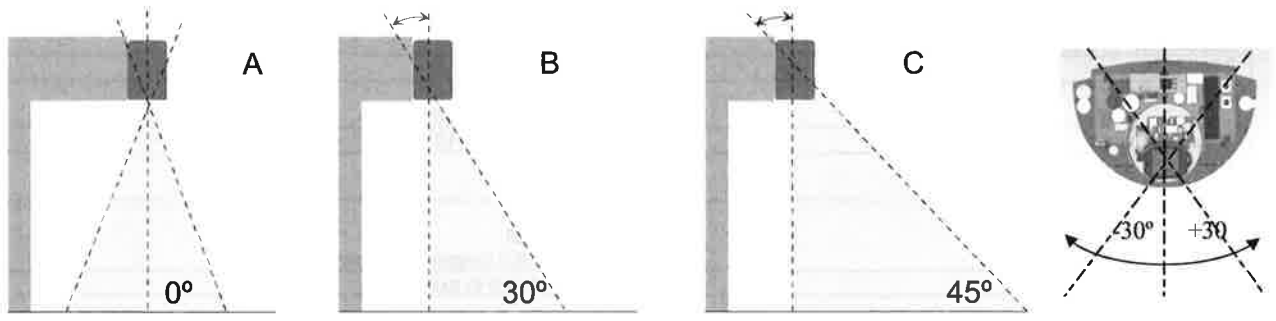
Circuit board components are vulnerable to damage by electrostatic discharge (ESD). ESD can cause immediate or subtle damage to sensitive electronic parts. An electrostatic charge can build up on the human body and then discharge when you touch a board. A discharge can be produced when walking across a carpet and touching a board, for example. Before handling any board, make sure you dissipate your body's charge.

CAUTION: In the event a unit needs to be opened, observe the following precautions.

Ground yourself by touching a conductive surface of the door or other element connected to common earth ground to discharge the static electricity present in your body.
 Avoid walking around while replacing items inside the case, especially if you are on carpet or during conditions of low temperature and low humidity.
 Handle the board by the edges only to avoid touching electronic components.
 Store a loose board in an anti-static bag.

Mechanical Adjustments

THE POSITION OF THE SENSING FIELD IS DETERMINED BY THE VERTICAL AND LATERAL ANGLE OF THE ANTENNA



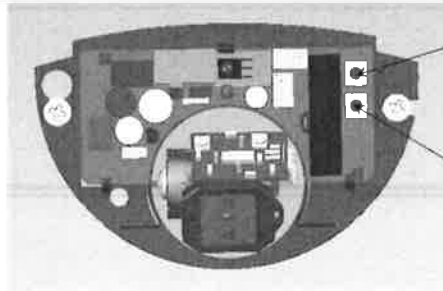
Sensing field as close to the door as possible:
-antenna set at the position of 0°

Sensing field close to the door:
-antenna set at the position of 30°

Sensing field far from the door:
-antenna set at the position of 45°

Set Up

Hold open time refers to the time the door will remain open AFTER movement is no longer detected. Hold open time can be adjusted manually by means of the push buttons + (more) and - (less).



+ Press to increase hold open setting (see table below).

- Press to decrease hold open setting.

Pressing the two push buttons, located on the circuit board, simultaneously for three seconds, will restore all default settings.

Setting	Time (Seconds)
0	0.5
1	5
2	6
3	7
4	8
5 (Default)	10
6	14
7	16
8	18
9	20

Recommended Settings:



Setting 1-3




Setting 4-6



Setting 7-9

Troubleshooting

SYMPTOMS	PROBABLE CAUSE	CORRECTIVE ACTION
Red LED does not light up.	The sensor power is off. Cable is not connected.	Check the wiring and power supply. Connect cable.



ASSA ABLOY
ASSA ABLOY, the global leader in door opening solutions
3000 Highway 74 East Monroe, NC 28112
Tel: (877)-974-2255 Fax: (800)-338-0965
www.nortondoorcontrols.com

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