

740132

Senior Swing



Installation Instructions

2800 Overhead Concealed Series 9500 Surface Applied Series

ACAUTION **A**

LCN Senior Swing

The Senior Swing Power Operator System is a low energy product and must conform to the latest version of ANSI/BHMAA156.19 (American National Standard for Power Assist and Low Energy Power Operated Doors).

Installation Instructions

All installation instructions are valuable references and should not be discarded. They should be given to the building owner or maintenance supervisor after installation is complete.

Improper installation or set up may result in personal injury or property damage. Follow all instructions carefully. For answers to questions, call:

Technical Support

1-877-671-7011

🛕 IMPORTANT 🛕

These instructions are presented in step-by-step sequence. It is very important that installation begins with "1. Pre-Installation Site and Product Check" (page 4) and continues as directed after each section.

A WARNING A

Always disconnect main power to the operator prior to replacing.

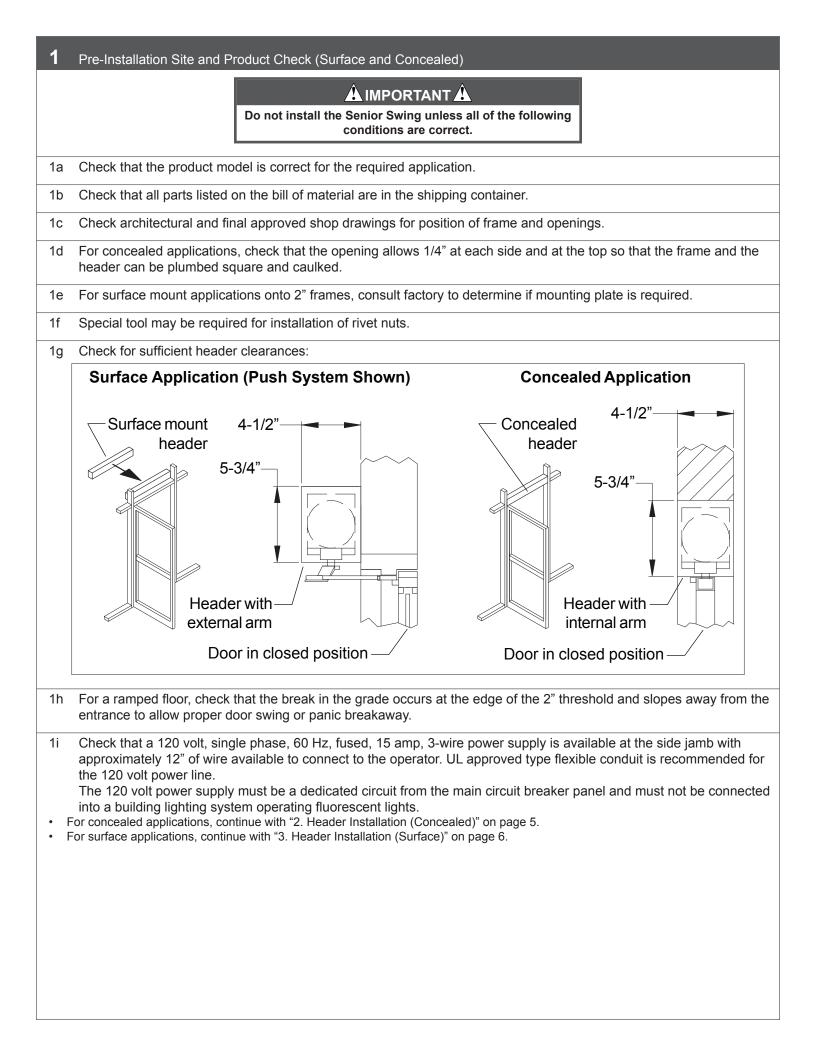
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General

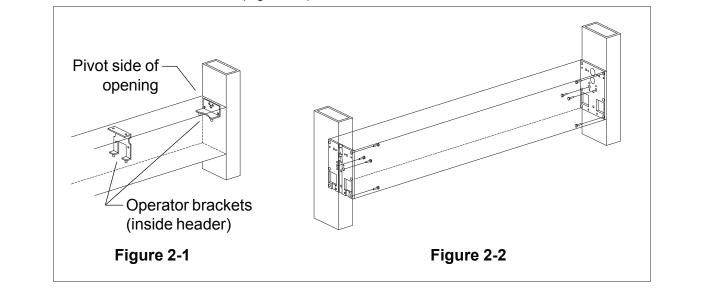
The Senior Swing is an automatic electromechanical swinging door operator for a single door, simultaneously operated, or independently operated pair of doors. The concealed application operates center pivoted, offset pivoted, or butt hung/hinged doors. The surface application operates balanced (push side only), center pivoted, offset pivoted, or butt hung/hinged doors in either push or pull mode.

When activated, the Senior Swing drives the door to the full open position, then electrical power is turned off and the door is closed by spring force. The activating circuit opens the door from any position in the closing swing. During a power failure, the Senior Swing acts as a manual door closer (size 3). Door opening and closing cycles, including opening speed, back check speed, hold open time delay, closing speed, and latch position, are adjustable.



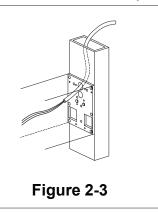
2 Header Installation (Concealed)

- ① Note: Install concealed application headers so there is 1/8" between the bottom of the header and the top of the door.
- 2a Prepare existing jamb tubes using template 740069, then install four 1/4-20 rivet nuts inside each jamb tube.
- 2b Align the header with the jamb tubes. For headers with a single operator, position the end of the header containing the operator brackets near the pivot side of the opening (Figure 2-1). Secure the header to the jamb tubes with four 1/4-20 hex head screws at each end (Figure 2-2).



2c Stand the header/jamb tube assembly in the opening.

- 2d Feed the 120 volt power conduit into the header (Figure 2-3). Leave 12" minimum of wire inside the header for final hookup.
- 2e Shim and square the side jamb tubes in position, then secure the jamb tubes in the opening.

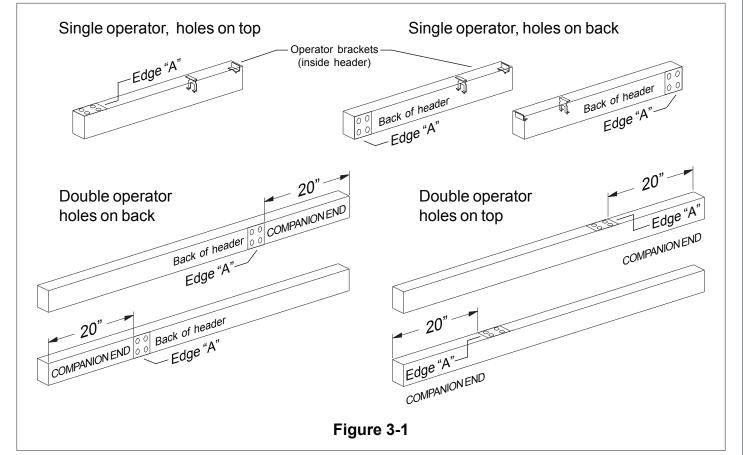


• Continue with "4. AC Power and Ground Wiring (Surface and Concealed)" on page 8.

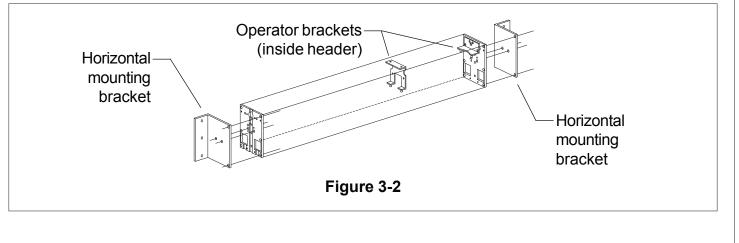
3 Header Installation (Surface)

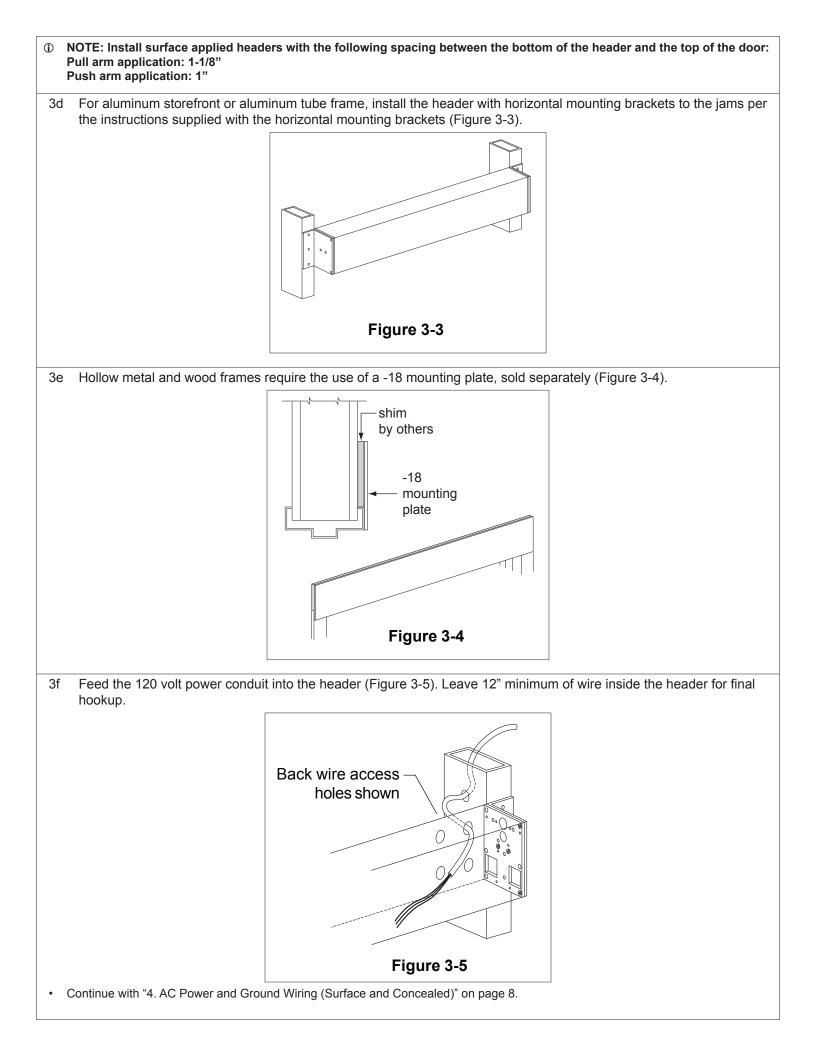
3a For a header with two operators (for a simultaneously operated pair of doors), designate one end of the header as the companion operator end. (It does not matter which end.)

3b Refer to Figure 3-1 and step 3.3 and prepare wire access holes appropriate for the application in the header using template 740070. Be sure to position edge "A" of template 740070 as shown in Figure 3-1.



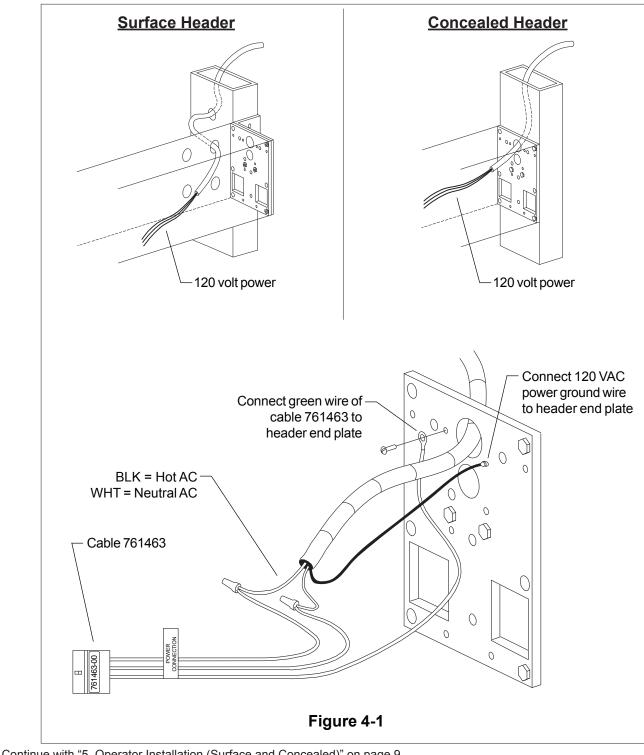
3c Install horizontal mounting brackets on the header per the instructions supplied with the brackets (Figure 3-2). Make sure the horizontal mounting brackets are oriented so the wire access holes in the header (see step 3.2) face up or face the door and, for single operator headers, the operator brackets inside the header are near the hinge side of the opening.





4 AC Power and Ground Wiring (Surface and Concealed)

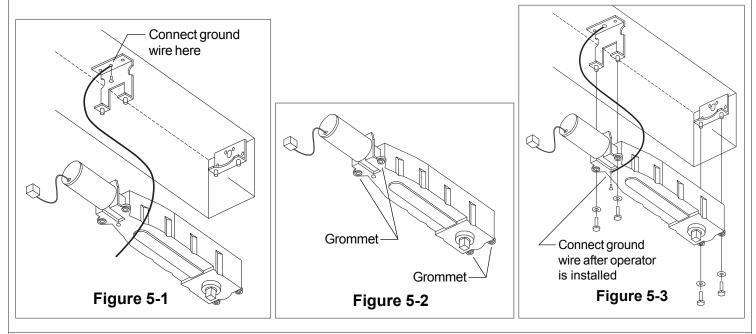
Connect the 120 volt power wires to the AC power cable (part number 761463) and header end plate as shown in 4a Figure 4-1.





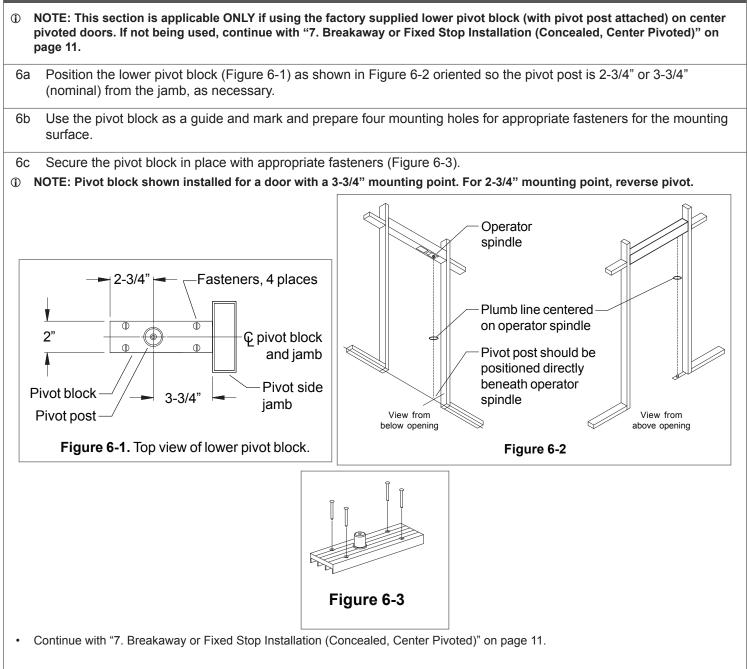
5 Operator Installation (Surface and Concealed)

5a For double operator systems with differently handed operators, make sure that the correct operator is installed in each end of the header. The handing of the operator (R.H. or L.H.) is indicated on a label on the operator.



- 5b Connect the end of the green operator ground wire to the rear operator mounting bracket in the header (Figure 5-1) using the #10-32 hex head green ground screw supplied in the operator screw pack.
- 5c Make sure there is a rubber grommet inside each of the four operator mounting holes (Figure 5-2).
- 5d Line up the four mounting holes on the operator with the four mounting studs on the operator brackets (Figure 5-3). Make sure that the operator cable (with 6-pin connector) is hanging down freely and push the operator up onto the mounting studs. Make sure cables are not pinched when operator is installed. (The mounting studs fit snugly into the grommets, and firm pressure may be required to get the operator into position.)
- 5e Secure the operator to the header using four 5/16-18 hex head screws and washers (Figure 5-3). Tighten the screws until they make contact with the mounting studs on the operator brackets.
- 5f Connect the other end of the green ground wire to the small hole in the bottom of the operator (Figure 5-3).
- 5g For a header with two operators, install the second operator in the same manner.
- For center pivoted doors, continue with "6. Pivot Block Installation (Concealed, Center Pivoted)" on page 10.
- For other doors, continue with "8. Control Box Installation (Surface and Concealed)" on page 12.

6 Pivot Block Installation (Concealed, Center Pivoted)



7 Breakaway or Fixed Stop Installation (Concealed, Center Pivoted)

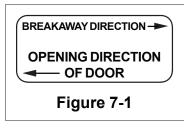
① NOTE: This section is applicable ONLY to center pivoted doors using the factory supplied breakaway or fixed stop. If not being used, continue with "8. Control Box Installation (Surface and Concealed)" on page 12.

Breakaway and Fixed Stop Operation

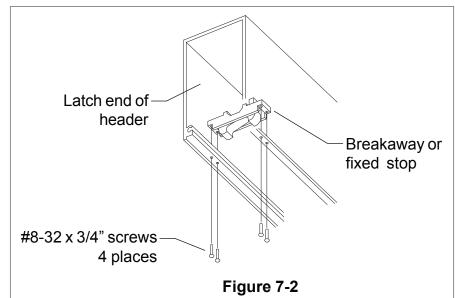
The function of the breakaway or fixed stop is to act as a mechanical stop on an inswinging door so the door cannot normally be opened in the outswinging direction.

The **breakaway stop** differs from the fixed stop in that, in a panic or fire condition, when approximately 50 lbs. of force is applied on the door from the inswinging side, the door will open in the outswinging direction. When this occurs, a switch in the breakaway stop disables the automatic operation of the door. The door then remains inoperative and in the breakaway position until it is manually pushed back through the opening to the inswinging side. This action resets the breakaway stop and restores automatic operation.

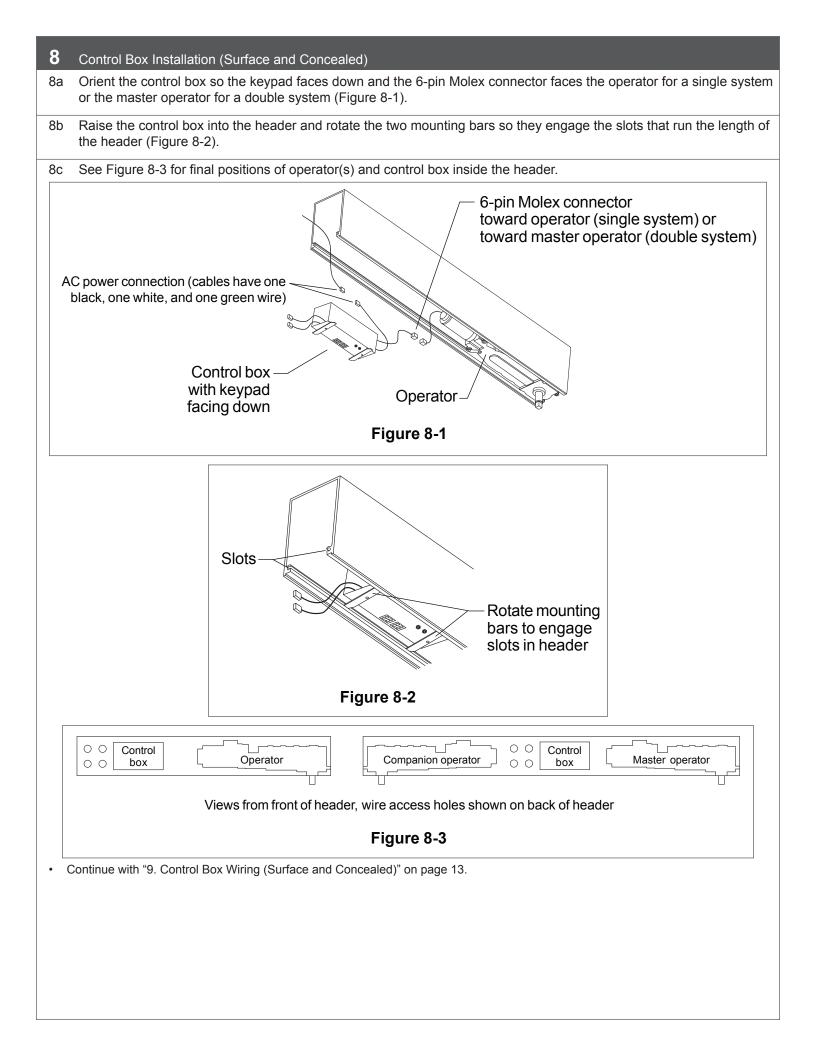
7a Orient the breakaway stop according to the directions on the switch label (Figure 7-1). The "OPENING DIRECTION OF DOOR" arrow should point in the direction that the door opens during normal operation.



7b Install the breakaway or fixed stop inside the header approximately 2-1/4" from the latch end using the four #8-32 x 3/4" screws supplied with the stop (Figure 7-2). Mounting holes for the stop have been prepared in the header at the factory.

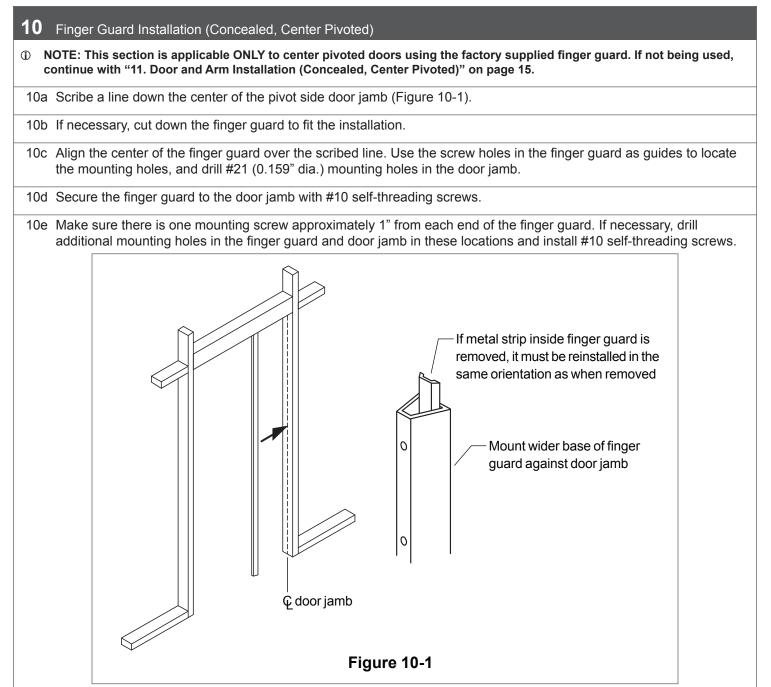


• Continue with "8. Control Box Installation (Surface and Concealed)" on page 12.

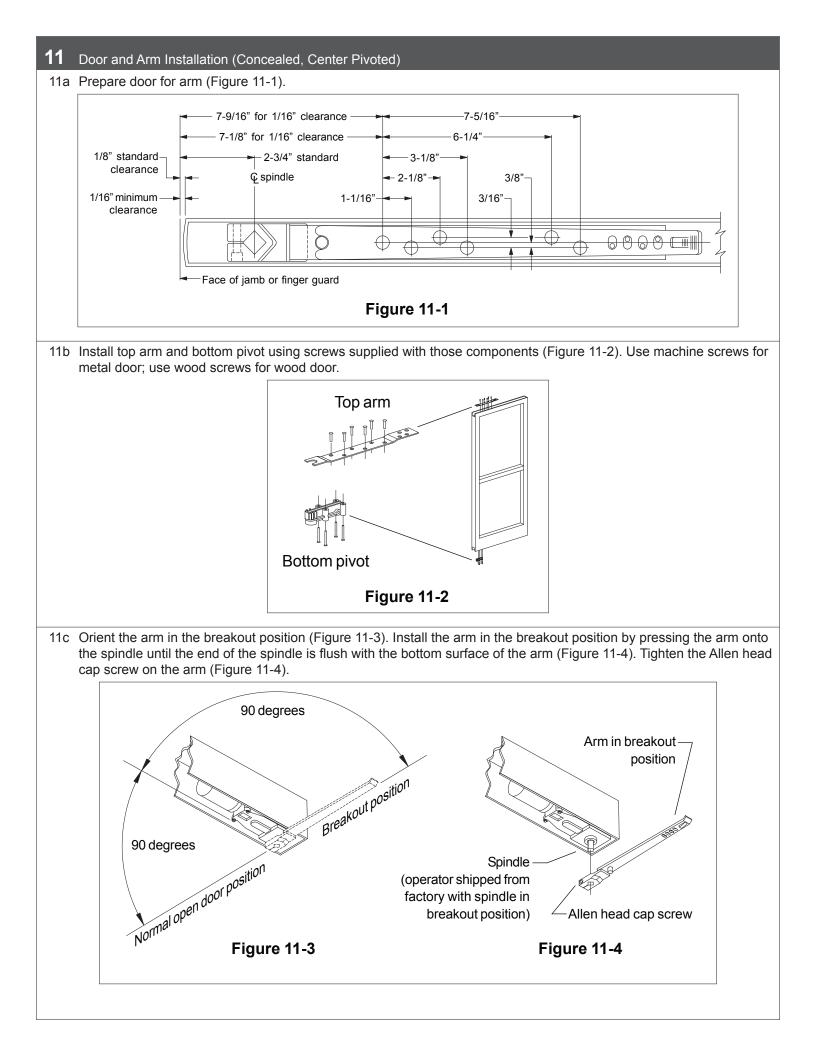


9 Control Bo	ox Wiring (Surface and Concealed)
	A CAUTION A High voltage wiring must be separated from low voltage wiring by UL listed wiring for the control box, operators, and low voltage accessories.
	A CAUTION A When joining or separating a Molex plug and receptacle, do not push or pull on any of the wires. This may cause a wire to be pulled loose from a terminal, which may result in a malfunction.
AC powerMaster motor	erator system minimum wiring requirements: power vitch or jumper
AC powerMaster motorCompanion m	
9b For wiring instruction	of companion operator and and additional accessories, see the Senior Swing Control Box installation s.
9c Dress all w	vires neatly together and use clips to retain wires in their proper locations.
	3-position switch cable (one red, one green, and one black wire) Breakaway cable (one orange and one black wire)

- For center pivoted doors, continue with "10. Finger Guard Installation (Concealed, Center Pivoted)" on page 14.
- For other doors, continue with "12. Arm Installation (Surface and Concealed)" on page 17.

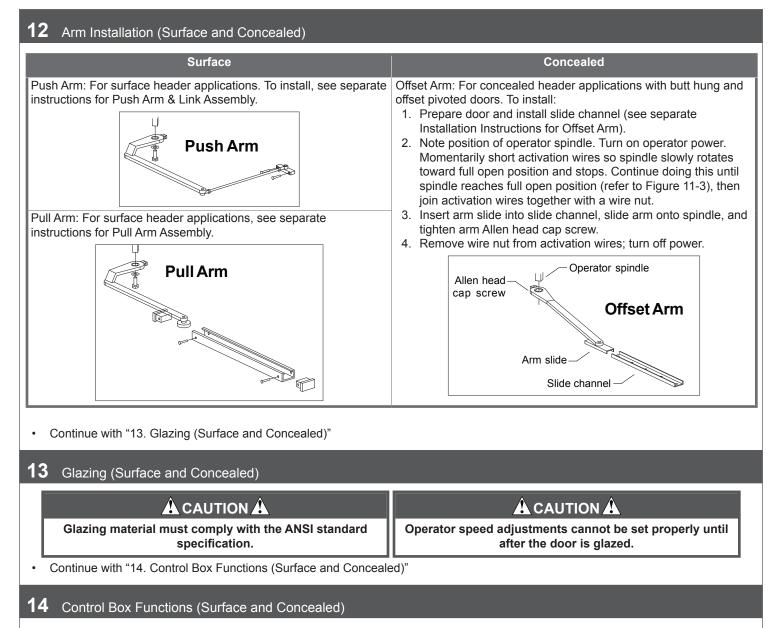


• Continue with "11. Door and Arm Installation (Concealed, Center Pivoted)" on page 15.



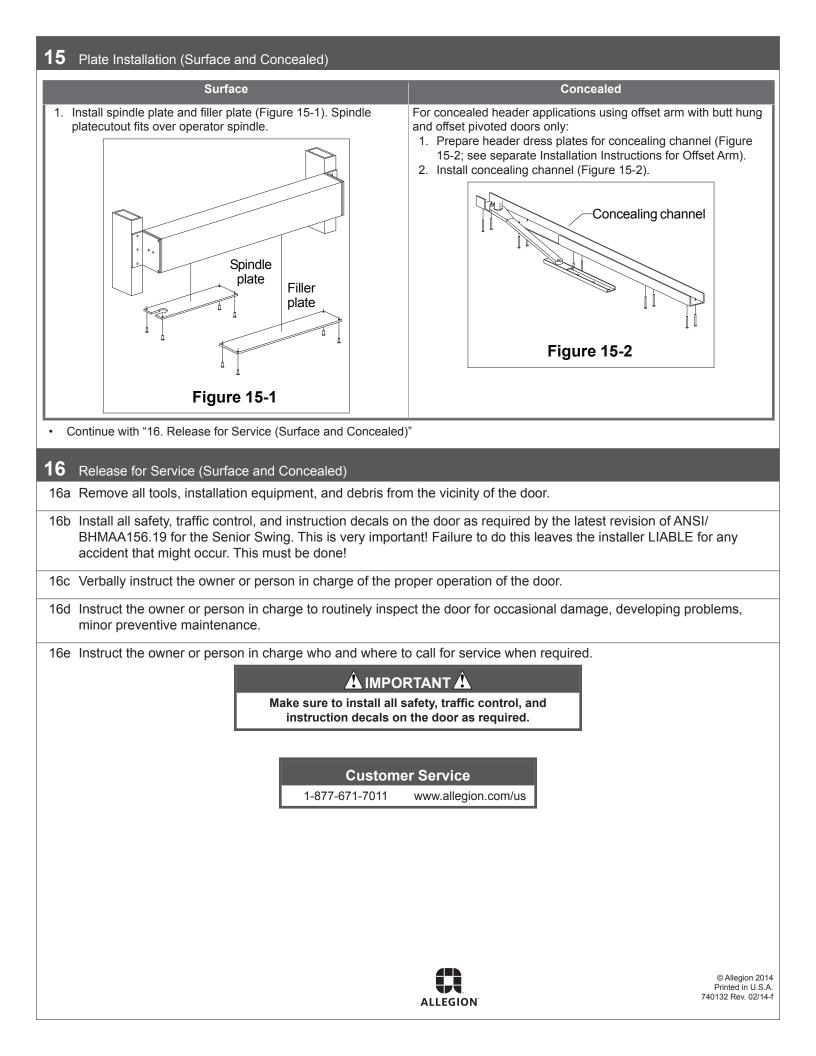
11d Position the door so the arm is in the top channel of the door and gently slide the door up against the lower pivot (Figure 11-5).

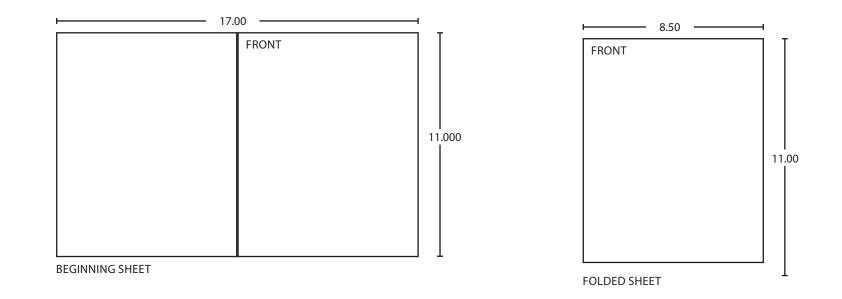
Push into place									
Figure 11-5									
11e Lift the door slightly and push back until the bottom pivot locks into place.									
11f Raise the nose of the door and push back until the top arm snaps into place.									
11g Align the door in the open position (perpendicular to the opening).									
1/4-20 x 1/2" hex head cap screws with washers € door 1-1/2 degrees € arm 0 0 0 □ □ ↓ c arm and door € arm 0 0 0 □ ↓ 1-1/2 fegrees € door									
Figure 11-6									
 11h Install two 1/4-20 x 1/2" hex head cap screws and washers through two of the oval holes in the arm and into the top attachment arm (Figure 11-6). 11i Install screws in whichever of the positions shown align with the door in the open position (perpendicular to the 									
opening).									
11j Check door operation by pushing door to normal closed position, continue pushing through breakaway stop to 90 degree open position, and then release door. Door should close.									
If the operator is not connected to the control box, the door will slam closed when released.									
Continue with "13. Glazing (Surface and Concealed)" on page 17.									



To set control box functions, see the Senior Swing Control Box installation instructions.

• Continue with "15. Plate Installation (Surface and Concealed)" on page 18.





Additional Notes:		Revision History					Revision Description:										
1. Center stitched booklet	А	В	С	D	Е	F	F > Revised artwork			F > Revised artwork							
	N/A	N/A	N/A	N/A	N/A	047232											
	Material	Material White Paper					Edited By	Approved By	EC Number	Release Date							
							D. Myers	M. Sasso	047232	02-21-14							
		 printed two sides printed black tolerance ± .13 printed in country may vary drawings not to scale 					Title SENIOR SWING OVERHEAD CONCEALED & SURFACE APPLIED										
	3. tolerar 4. printed						Creation Date 08-30-08	Number 740132		Revision F							
	5. drawin						Created By N/A	Activity 3899 Hancock Expwy Security, CO 80911 ©									
							Software: InDesign CS6			© Allegion 2014							