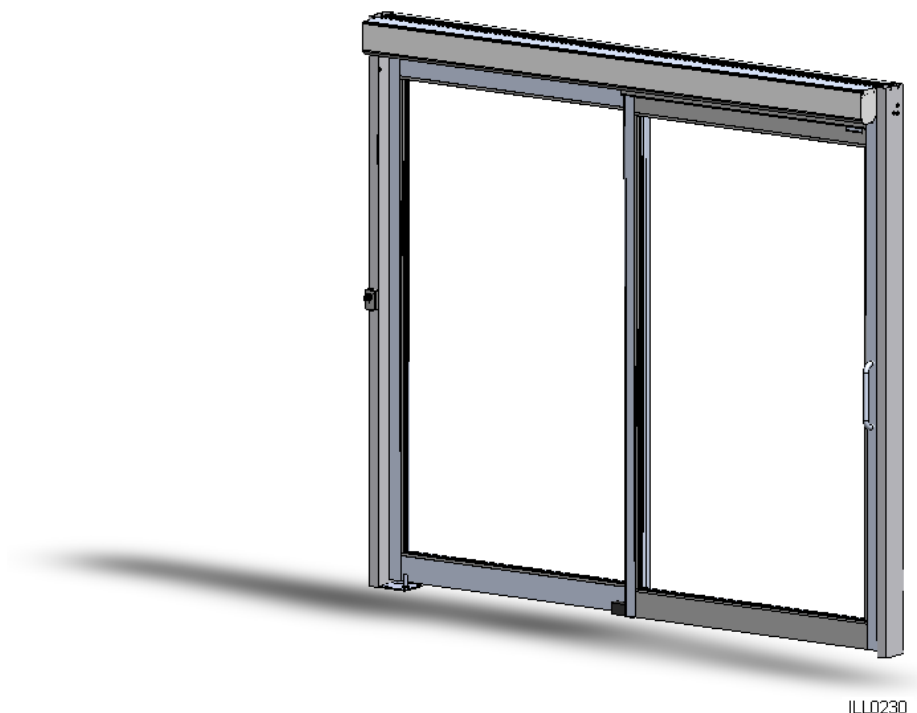




ADDENDUM

For
VersaMax[™]
Touchless
(Automatic Door)

2-Panel and Telescopic Installation



In this manual, the word:

CAUTION - Means that personal injury or property damage can result from failure to follow instructions.

NOTE! - Means that there is additional helpful information directly relevant to the subject matter.

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Revisions

The following pages have been revised:

Page	Revision
- - -	Updated manual as of 9-19-2011
13	Added electrical drawing (ILL0451)
27	Updated Signage drawing (ILL0257)

Electronic Equipment Reception Interference

This equipment may generate and or be affected by radio frequency energy, and if not installed and used properly, in strict accordance with the manufacturer's instructions, it may cause interference to radio, television reception or other radio frequency type systems. It has been designed to comply with the emission limits in accordance with EN 61000-6-3 (US market FCC Part 15), which are designed to provide reasonable protection against such interference in a residential installation.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient the receiving antenna
- Relocate the receiver with respect to the equipment
- Move the receiver away from the equipment
- Plug the receiver into a different outlet so that equipment and receiver are on different branch circuits
- Check that protective earth (PE) is connected

If necessary, the user should consult the dealer or an experienced electronic technician for additional suggestions.

Environmental Requirements

Please act according to your local regulations and dispose of your old product(s) and packaging properly. The correct disposal will help prevent potential negative consequences for the environment and human health.

Besam products are equipped with electronics and may also be equipped with batteries containing materials, which are hazardous to the environment. Remove this material from the operator before it is scrapped and make sure that it is disposed of safely along with the packaging.

According to European Directives and equivalent national legislation outside of the European Union, the following are the responsibility of the owner or caretaker of the equipment - that the equipment operates correctly, that regular inspection and maintenance and service is made, so that it gives sufficient protection in regard to safety and health.

Compliance with Safety Standards

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

- Your door system is maintained in compliance with the standards of the industry.
- Proper decals and labels be applied and maintained on your doors. If decals are removed or cannot be read, request replacement decals when calling for service.
- Safety devices for all doors should be checked by an AAADM certified inspector annually and each time a door is serviced.

AAADM, the American Association of Automatic Door Manufacturers, has established a program to certify automatic door inspectors.

Introduction



This addendum contains information not found in the manuals listed below. This information is necessary for the installation, maintenance and servicing of the automatic door option.

This addendum must also be included with the following documentation when installed as a retrofit kit on a 2-panel or telescopic panel package.

- US23-2100-02 – Besam VersaMax ICU/CCU Equal Panel Installation Manual
- US23-2101-02 – Besam VersaMax ICU/CCU Telescopic Panel Installation Manual

Models

The touchless automatic door option can be installed on any Besam ICU/CCU door package.

Door Installation Process

The door installation process incorporates unpacking and installing the automatic door hardware.

Unpacking

It is important that all packing material is removed from the door package so that it will not later interfere with the operation of the door.

Remove and dispose of all packaging and scrap materials in accordance with local regulations.

Hardware Installation

Depending on the options chosen, some or all of the hardware shown below must be installed on the door panels prior to installation. All hardware items are kitted with instructions and required fasteners.

Tools

- 10mm wrench
- Rubber Mallet
- Channellock pliers
- Torx Screw drivers
- Drill & drill bits
- 6-32" Drill tap
- 1-1/4" hole saw
- Screw driver set
- Tape measure

Installation Process (New Product)

Note!

To retrofit existing product, go to section titled, "[Retro-fit Kit Installation](#)".

Required parts and hardware are available and necessary holes have been predrilled other than for optional kits.

1. Install belt bracket and hardware.

Note!

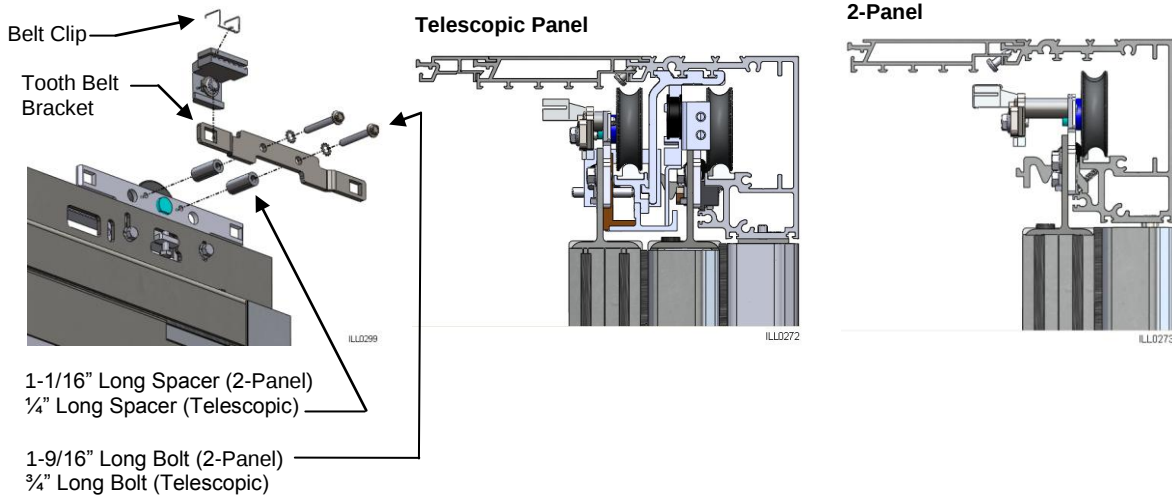
Belt bracket will be installed on wheel bracket close to nose rail on 2-Panel package. For telescopic, belt bracket will be installed on wheel bracket close to nose rail on active leaf #1.

Note!

For Bi-part packages, one tooth belt bracket facing up and one tooth belt bracket will be facing down on separate doors.

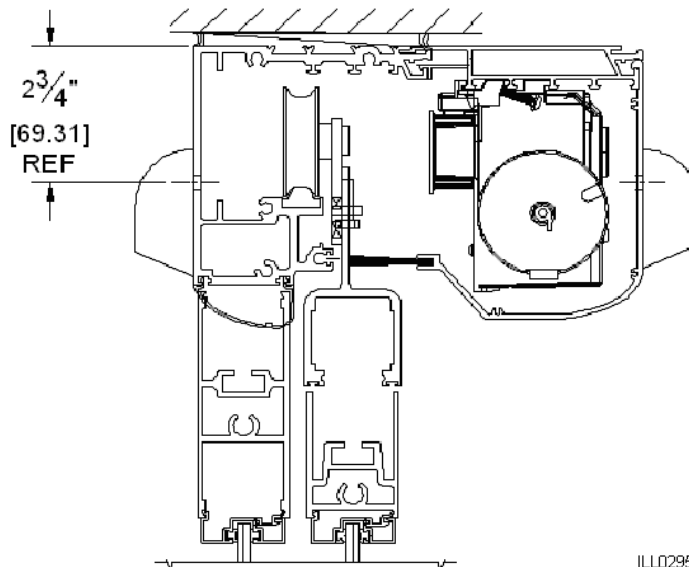
TIP!

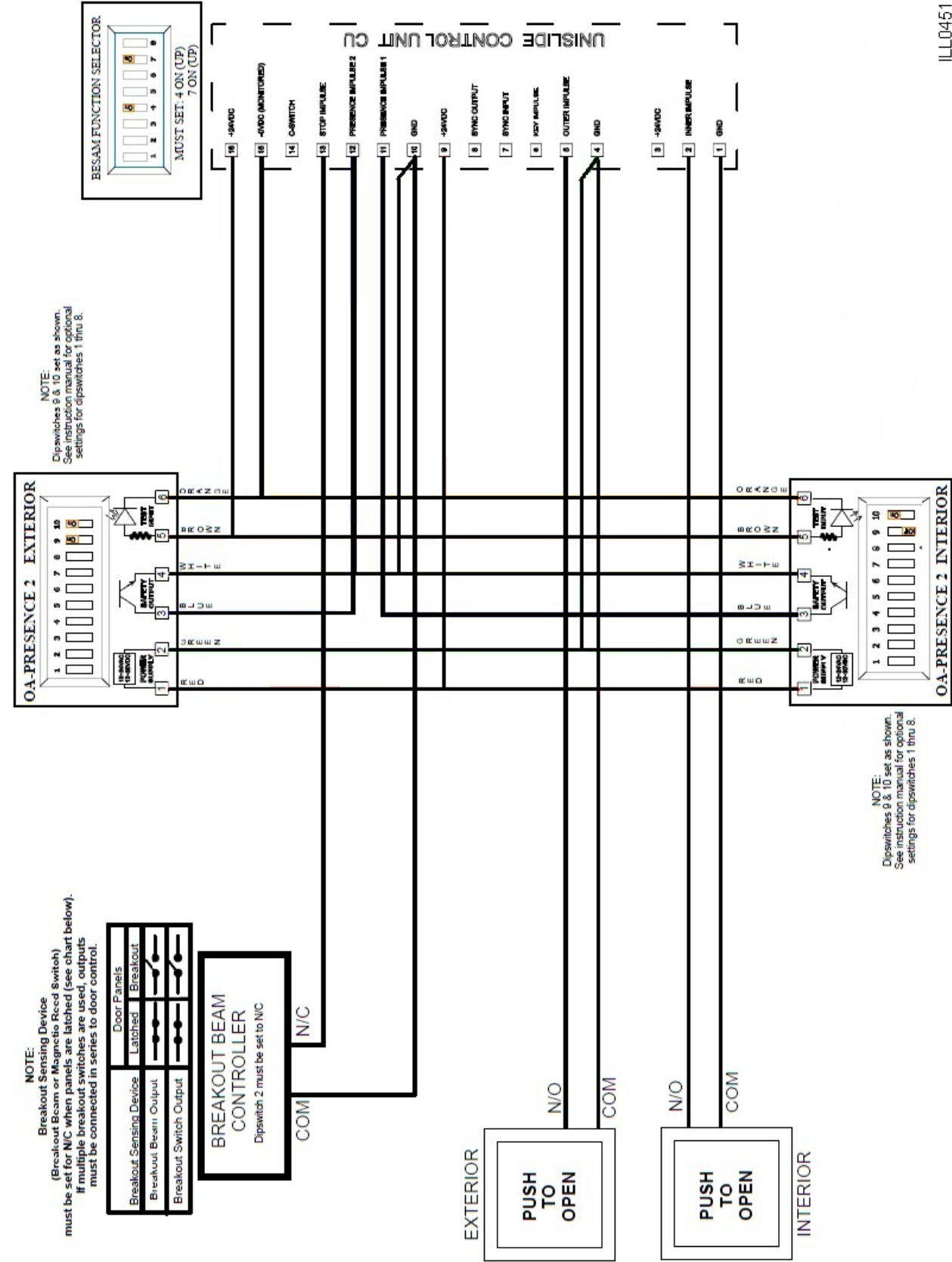
For ease installation, use M6 Tap and pretap holes.



(A) - Overhead Presence Sensors Installation

Note: Overhead presence sensors must be installed in the center of the clear door opening on both sides of the package. Use instructions and template provided to install and connect the presence sensors.





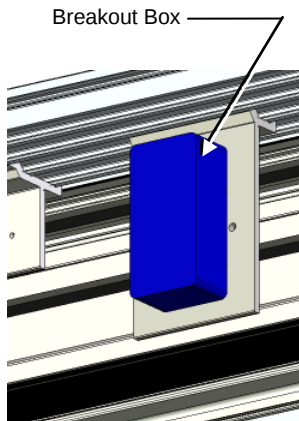
ILL0451

Note:

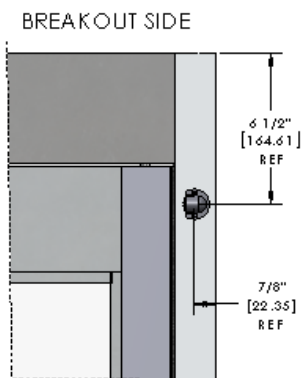
Mounting brackets for the breakout box will be provided with package. Use instructions and template provided to install and connect the breakout beams.

(B) - Install Breakout Beam Box

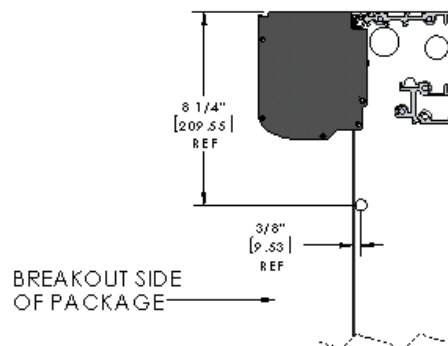
Install breakout beams per instructions found in Breakout Beam Kit.

BREAKOUT BEAM INSTALL

ILL0245

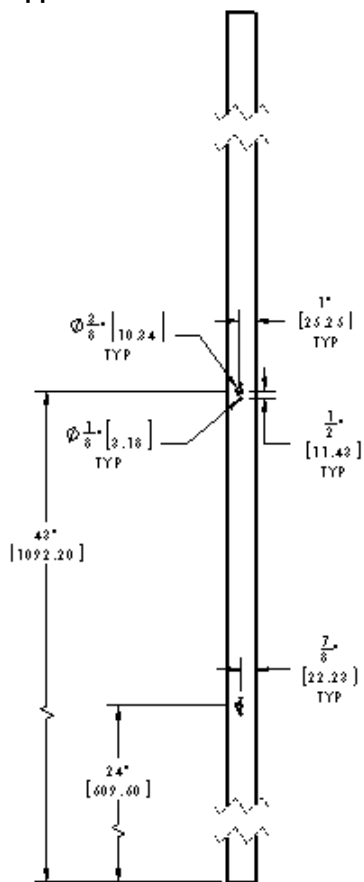


FOR ALL PACKAGES
WITH EXCEPTION TO
2 PANEL FSL



FOR 2 PANEL FSL & SA PACKAGE

ILL0290

(C) - Install Safety Beams (Optional)**Standard Application**

COVER SIDE
OF JAMB



NON-COVER SIDE
OF JAMB

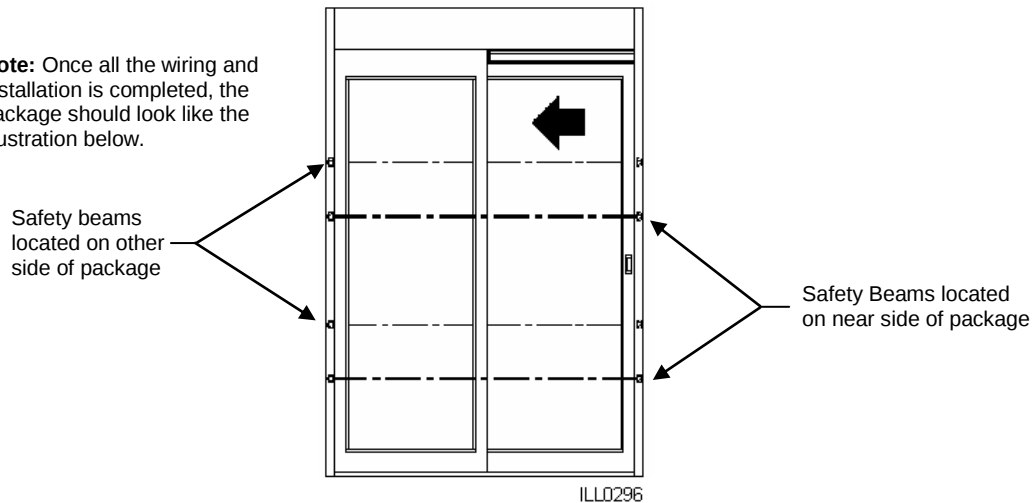
ILL0292

Note!

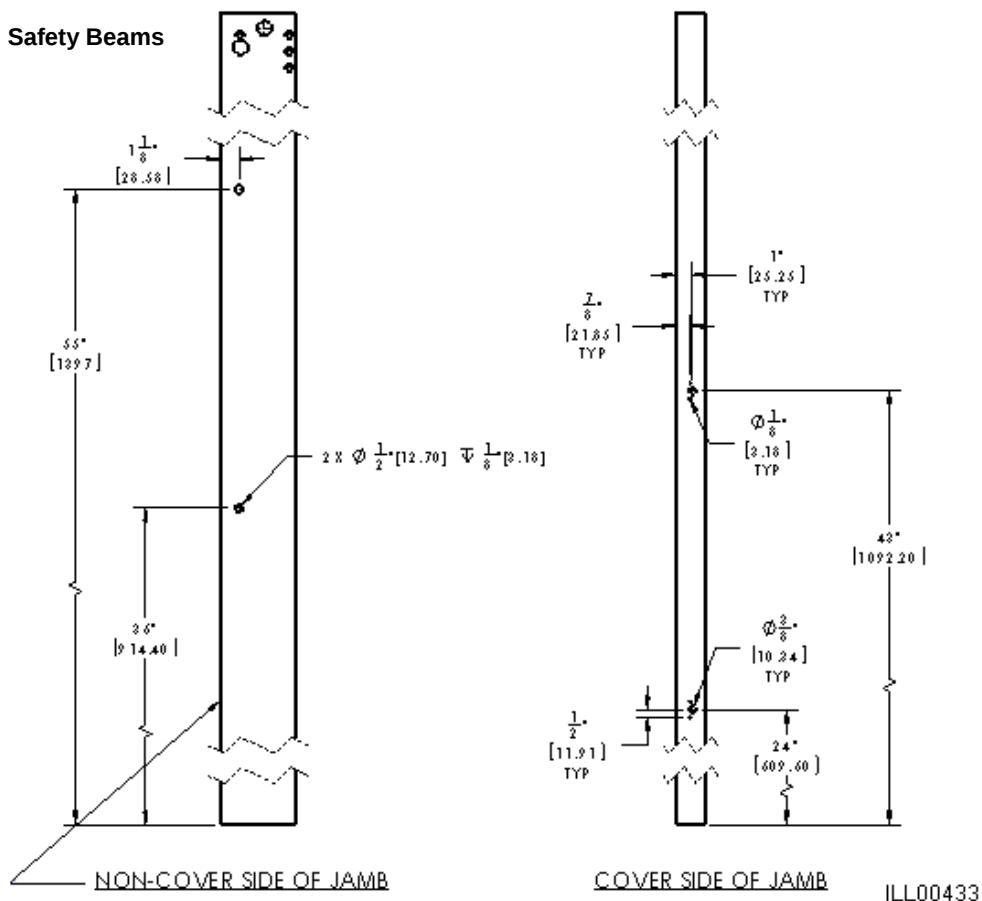
The location of hardware and subsequent holes are the same for both 2-panel and telescopic panel packages and have been predrilled in jambs.

Use safety beam housing as a template and drill (8) holes 1/8" in each jamb. Then install and connect safety beams, using instructions provided. (Mounting brackets for the safety beam box will be provided with package.)

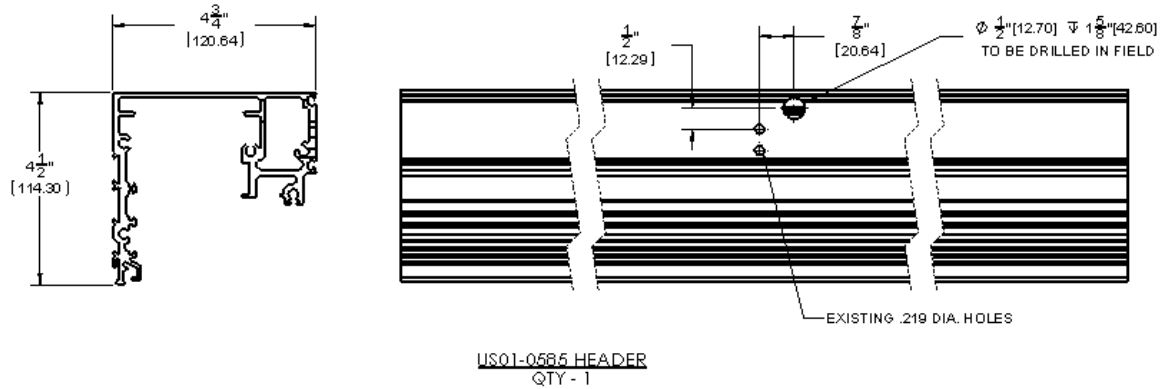
Note: Once all the wiring and installation is completed, the package should look like the illustration below.



Surface Applied Safety Beams



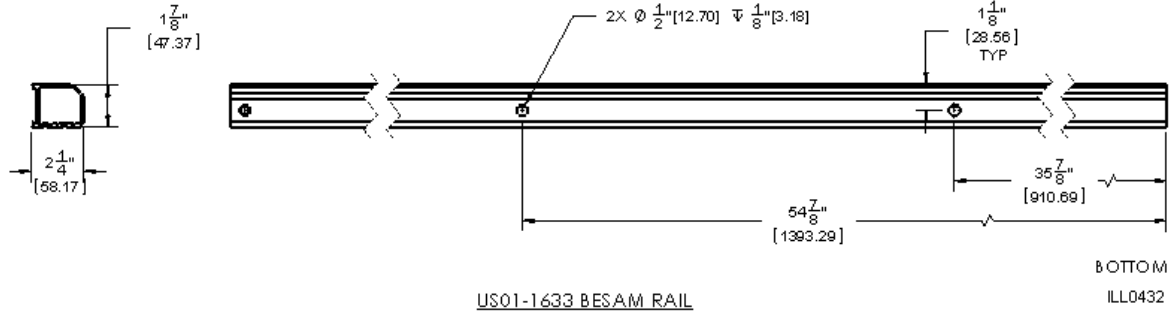
Surface Applied Safety Beam Header Prep



LH SHOWN, RH OPPOSITE

ILL0434

Surface Applied P Panel Safety Beams



(D) - Install Touchless Switches

Jamb Mounted Touchless Switch

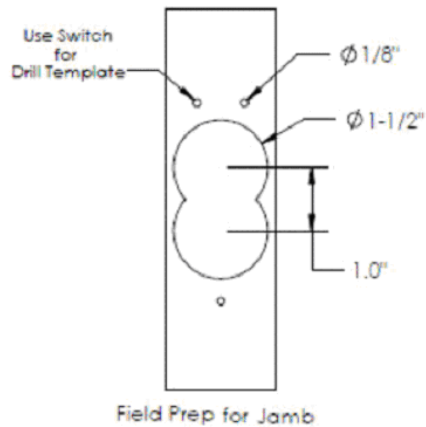


Note: If jamb mounted switch with factory prep, was selected, rectangular hole will be pre-drilled in jamb. Tapped mounting holes will be added in the field. If wall mounted or jamb mounted without factory prep selected, all mounting will be done in the field. Use instructions provided to install and connect touchless switches.

Wall Mounted Touchless Switch



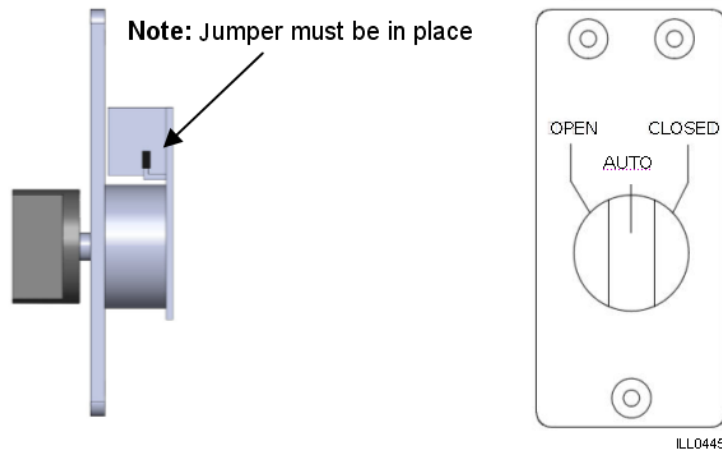
(E) - Install 3 Position Switch



ILL0293

Note!

If the door package is provided with the Electronic Shutter Strike, the Jamb Mounted Touchless Switch needs to be mounted at 48" centerline so as to avoid operational interference.



Program Selector Functions

Closed

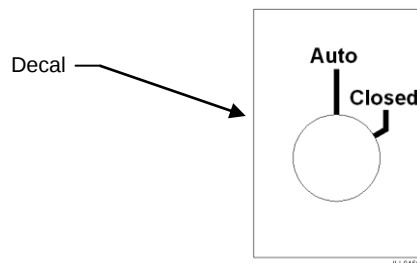
The inner and outer activation units are disconnected. The door can be opened with an emergency push-button/key switch (if installed).

AUTO

Two-way traffic, normal operation of the door. The door can be opened with the inner and outer activation units.

OPEN

The door is permanently held open. (This function is only available if door is tied into building's fire alarm.)



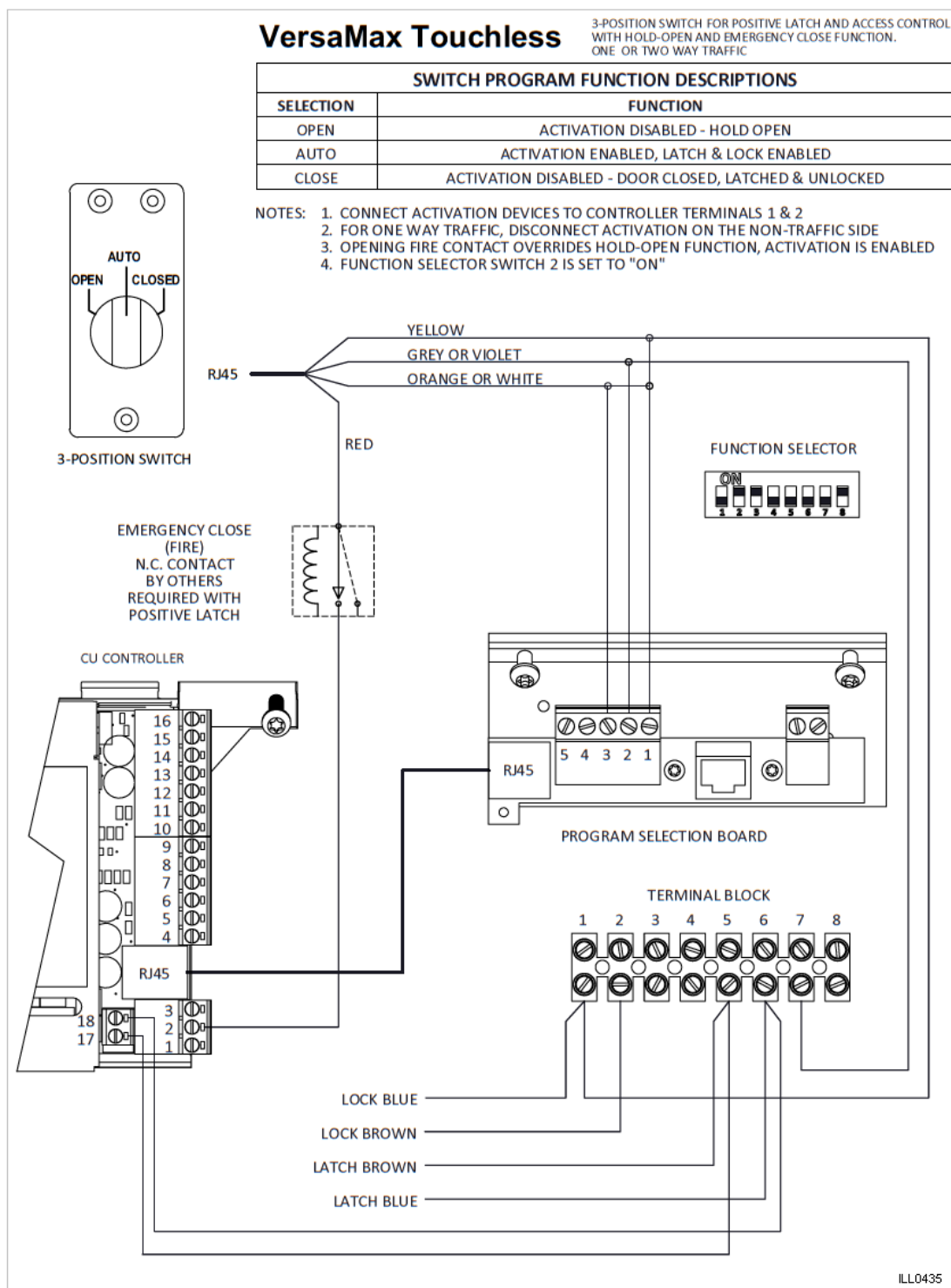
Note!

If the door package has smoke seals and the controller is not connected to the building fire alarm, the 'hold open' function will be disabled. For these cases, add the decal to the switch for correct function selector.

Positive Latch & Access Control Wiring Diagrams

3-Position Switch for Positive Latch & Access Control with Hold-Open & Emergency Close Function

Select correct drawing(s) below to complete electrical wiring and connections per customer option selected.



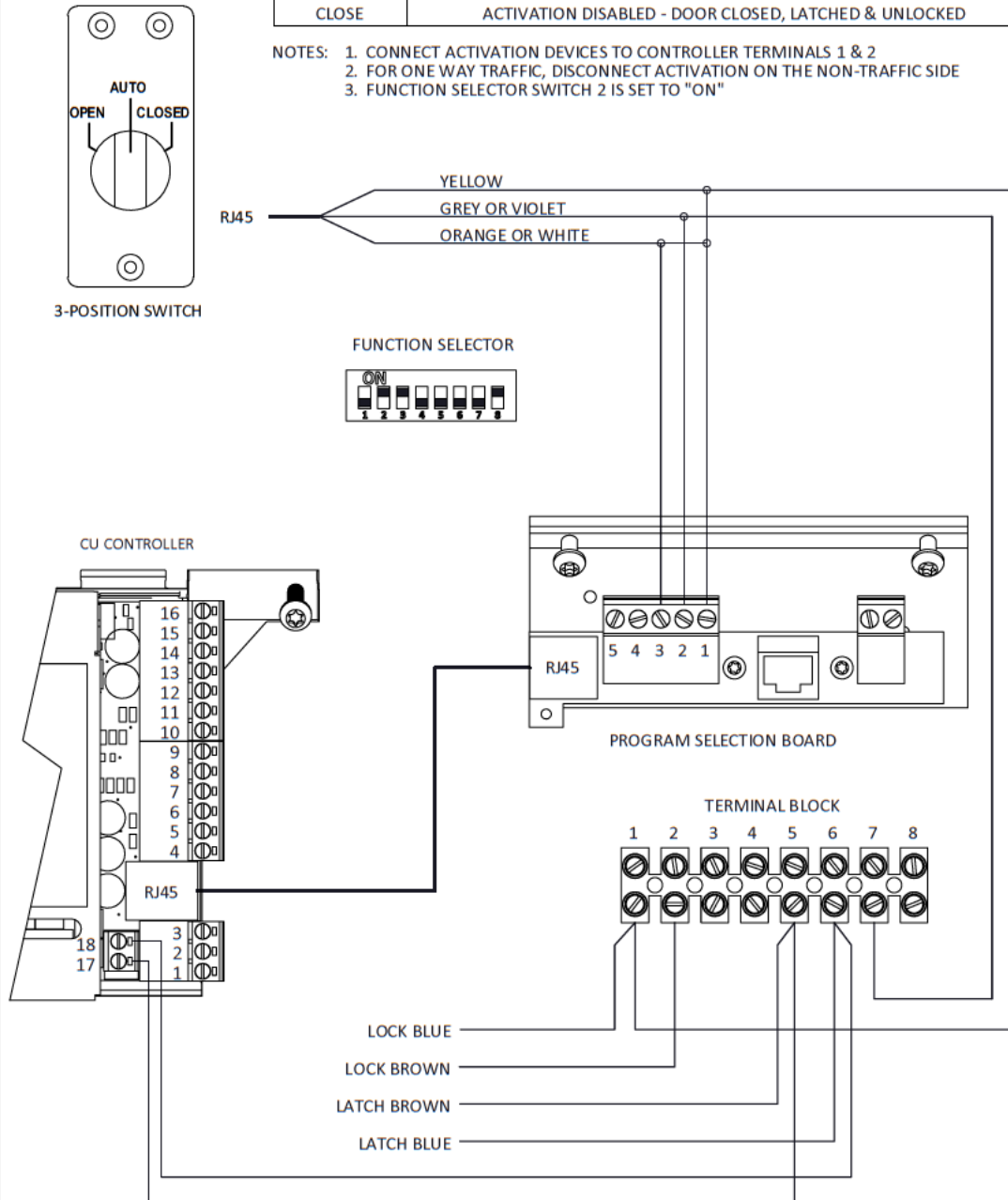
3-Position Switch for Positive Latch & Access Control

VersaMax Touchless

3-POSITION SWITCH FOR POSITIVE LATCH AND ACCESS CONTROL.
ONE OR TWO WAY TRAFFIC

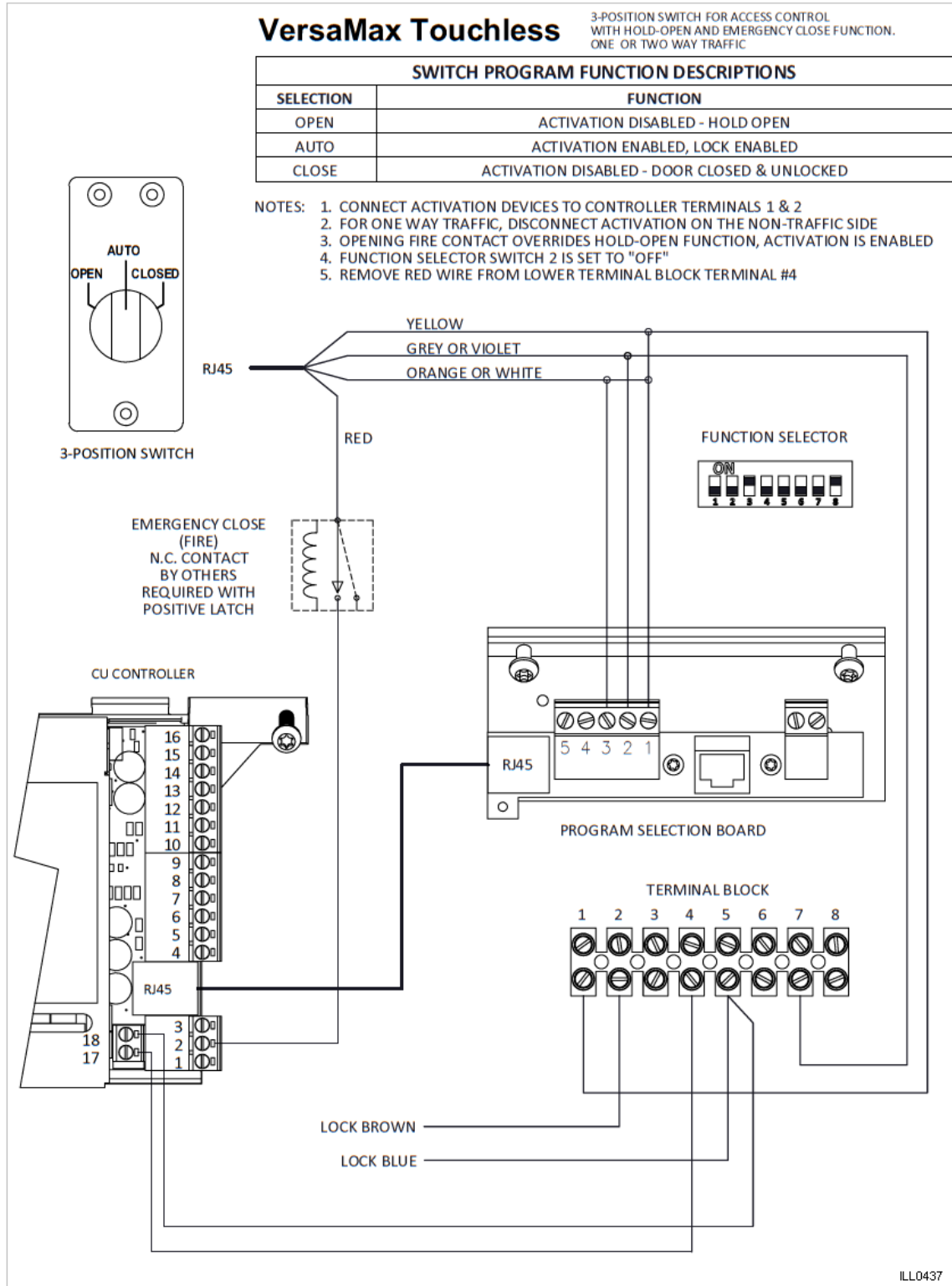
SWITCH PROGRAM FUNCTION DESCRIPTIONS	
SELECTION	FUNCTION
OPEN	ACTIVATION ENABLED, LATCH & LOCK DISABLED
AUTO	ACTIVATION ENABLED, LATCH & LOCK ENABLED
CLOSE	ACTIVATION DISABLED - DOOR CLOSED, LATCHED & UNLOCKED

NOTES: 1. CONNECT ACTIVATION DEVICES TO CONTROLLER TERMINALS 1 & 2
2. FOR ONE WAY TRAFFIC, DISCONNECT ACTIVATION ON THE NON-TRAFFIC SIDE
3. FUNCTION SELECTOR SWITCH 2 IS SET TO "ON"



ILL0436

3-Position Switch for Access Control with Hold-Open & Emergency Close Function



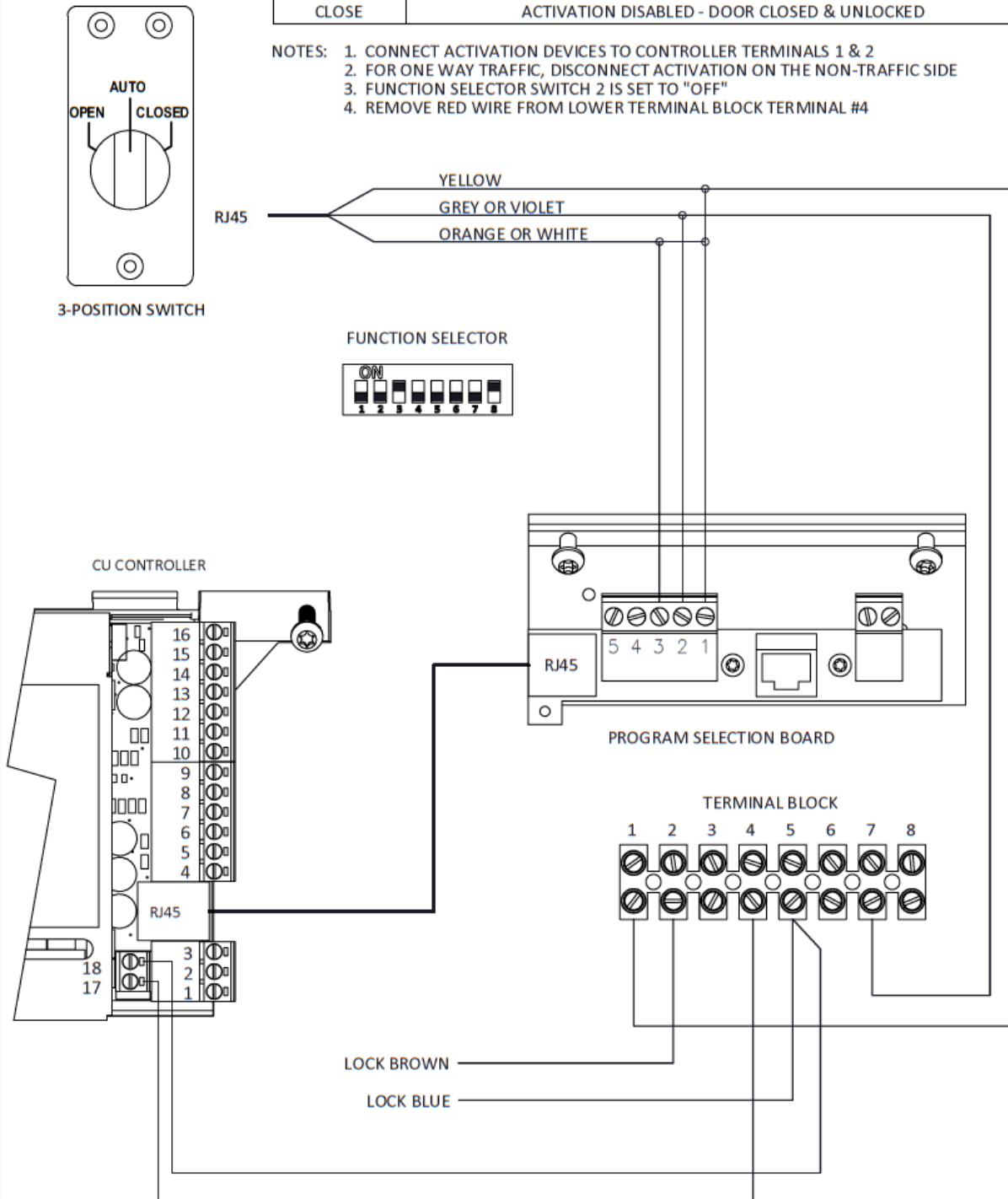
3-Position Switch for Access Control

VersaMax Touchless

3-POSITION SWITCH FOR ACCESS CONTROL
ONE OR TWO WAY TRAFFIC

SWITCH PROGRAM FUNCTION DESCRIPTIONS	
SELECTION	FUNCTION
OPEN	ACTIVATION ENABLED, LOCK DISABLED
AUTO	ACTIVATION ENABLED, LOCK ENABLED
CLOSE	ACTIVATION DISABLED - DOOR CLOSED & UNLOCKED

- NOTES:
1. CONNECT ACTIVATION DEVICES TO CONTROLLER TERMINALS 1 & 2
 2. FOR ONE WAY TRAFFIC, DISCONNECT ACTIVATION ON THE NON-TRAFFIC SIDE
 3. FUNCTION SELECTOR SWITCH 2 IS SET TO "OFF"
 4. REMOVE RED WIRE FROM LOWER TERMINAL BLOCK TERMINAL #4



ILL0438

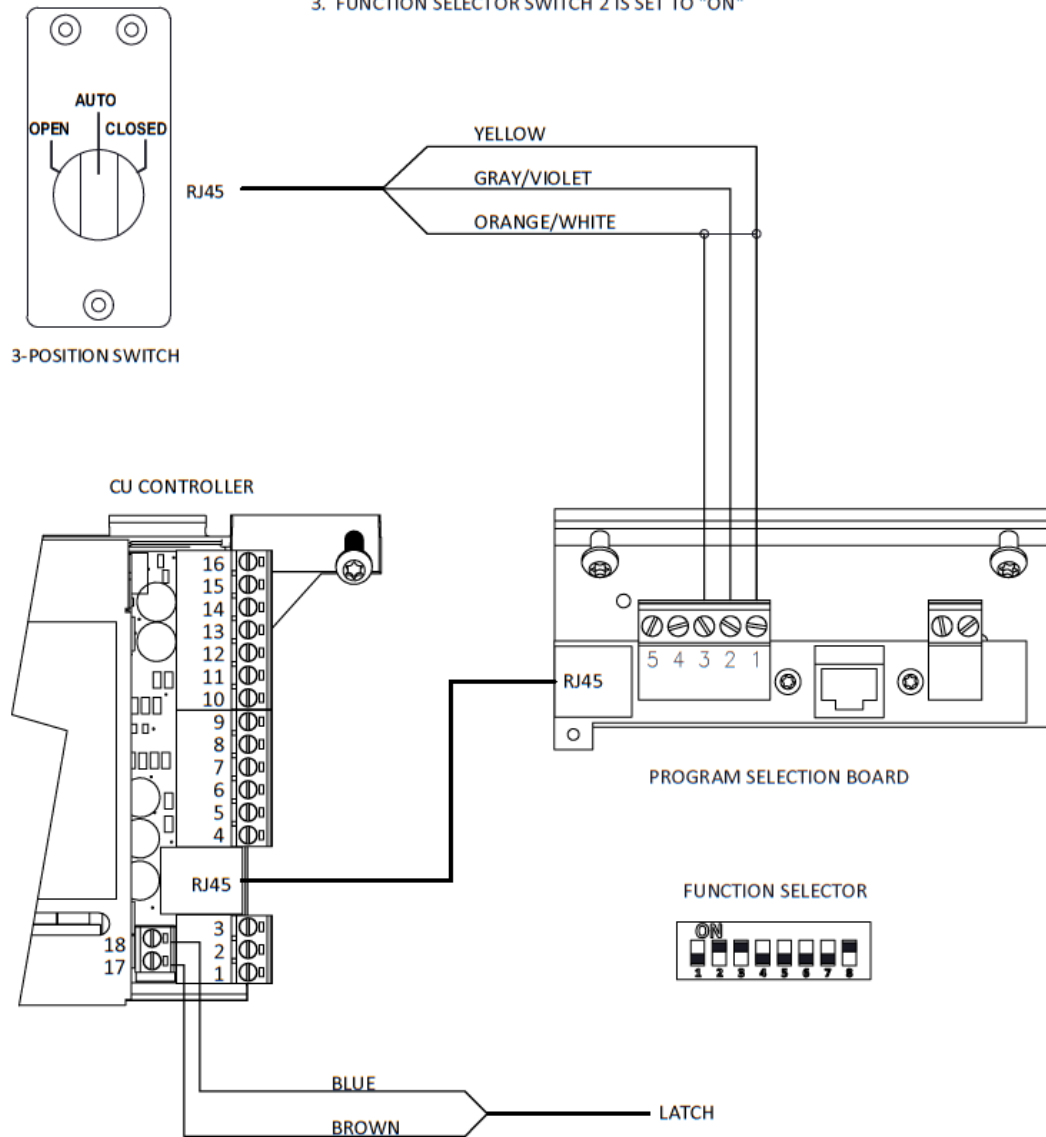
3 Position Switch for Positive Latch Hold-Open Function Disabled (No External N.C. Contact)

VersaMax Touchless

3-POSITION SWITCH FOR POSITIVE LATCH
HOLD-OPEN FUNCTION DISABLED (NO EXTERNAL N.C. CONTACT)
ONE OR TWO WAY TRAFFIC

SWITCH PROGRAM FUNCTION DESCRIPTIONS	
SELECTION	FUNCTION
OPEN	ACTIVATION ENABLED, LATCH ENABLED
AUTO	ACTIVATION ENABLED, LATCH ENABLED
CLOSE	ACTIVATION DISABLED - DOOR CLOSED & LATCHED

- NOTES: 1. CONNECT ACTIVATION DEVICES TO CONTROLLER TERMINALS 1 & 2
2. FOR ONE WAY TRAFFIC, DISCONNECT ACTIVATION ON THE NON-TRAFFIC SIDE
3. FUNCTION SELECTOR SWITCH 2 IS SET TO "ON"



ILL0439

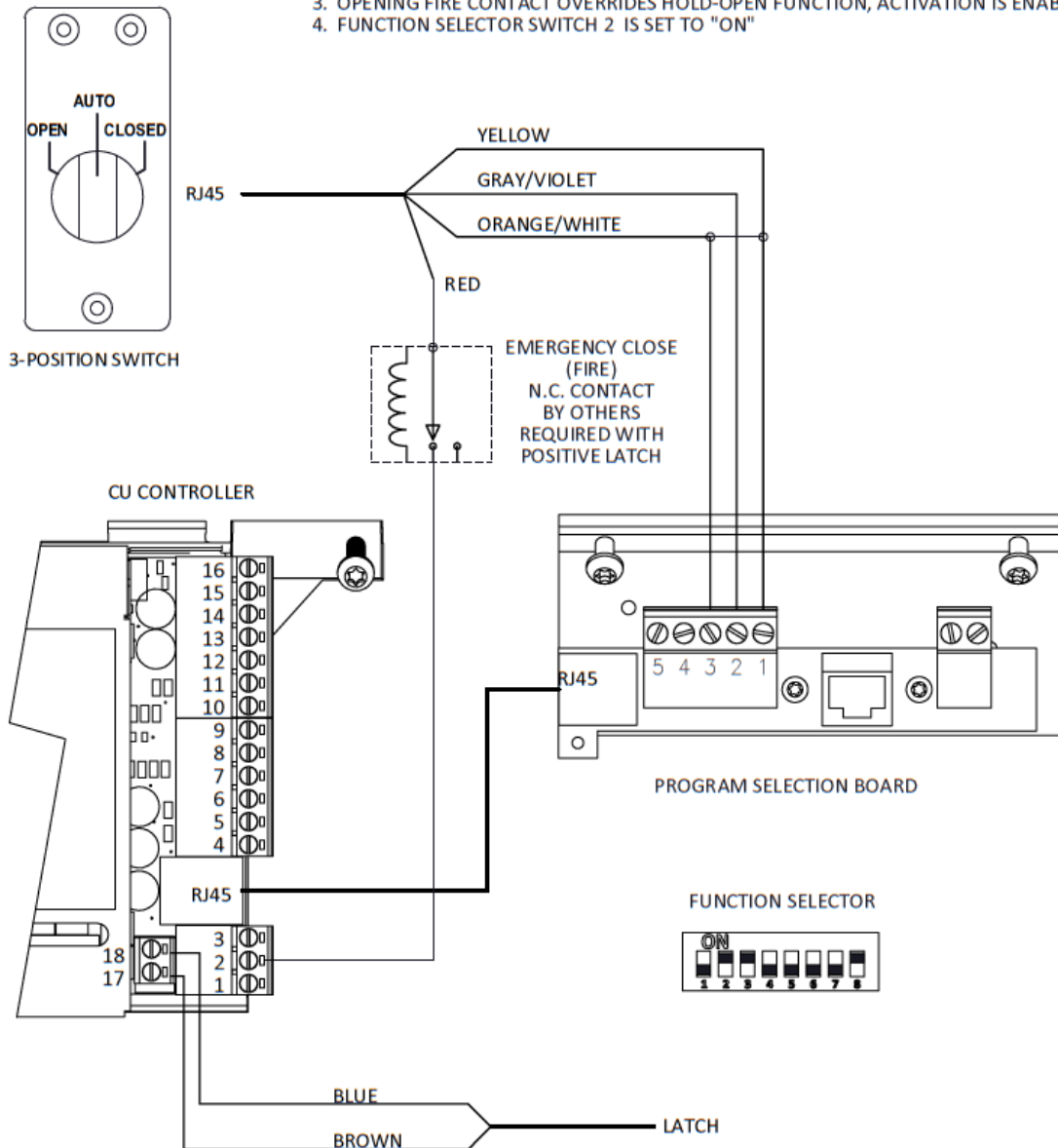
3-Position Switch for Positive Latch with Hold Open & Emergency Close Function

VersaMax Touchless

3-POSITION SWITCH FOR POSITIVE LATCH
WITH HOLD-OPEN AND EMERGENCY CLOSE FUNCTION
ONE OR TWO WAY TRAFFIC

SWITCH PROGRAM FUNCTION DESCRIPTIONS	
SELECTION	FUNCTION
OPEN	ACTIVATION DISABLED, HOLD-OPEN
AUTO	ACTIVATION ENABLED, LATCH ENABLED
CLOSE	ACTIVATION DISABLED - DOOR CLOSED & LATCHED

- NOTES: 1. CONNECT ACTIVATION DEVICES TO CONTROLLER TERMINALS 1 & 2
2. FOR ONE WAY TRAFFIC, DISCONNECT ACTIVATION ON THE NON-TRAFFIC SIDE
3. OPENING FIRE CONTACT OVERRIDES HOLD-OPEN FUNCTION, ACTIVATION IS ENABLED
4. FUNCTION SELECTOR SWITCH 2 IS SET TO "ON"



ILL0440

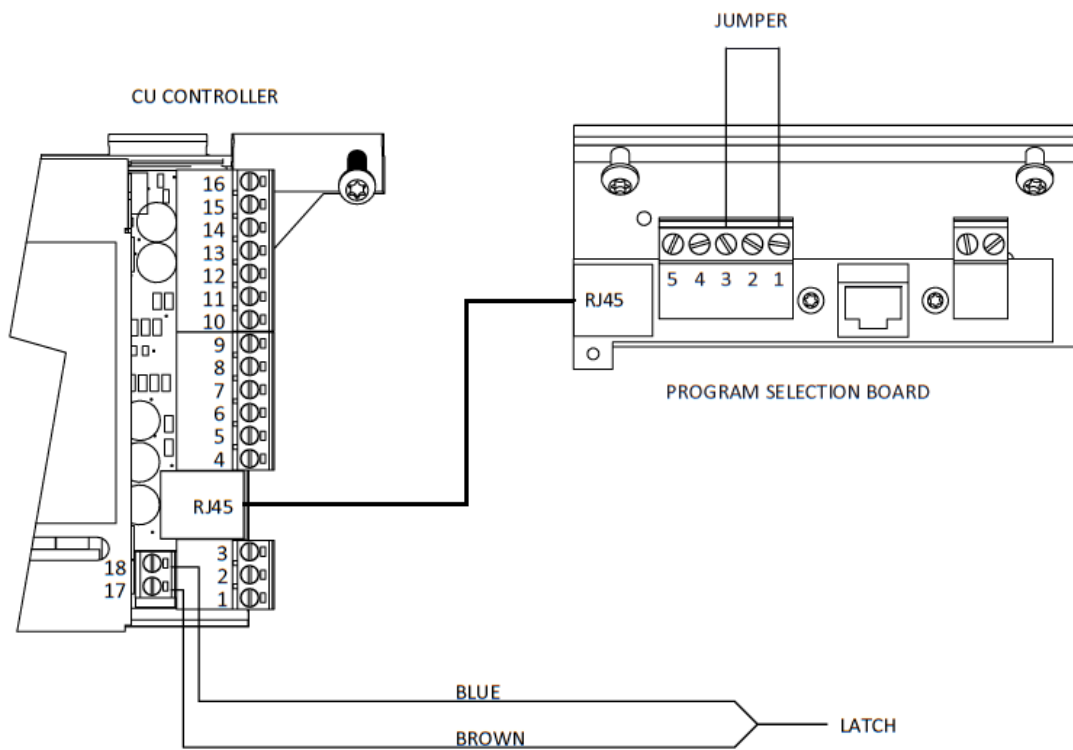
No Program Selection Switch Positive Latch

VersaMax Touchless

NO PROGRAM SELECTION SWITCH
POSITIVE LATCH
ONE OR TWO WAY TRAFFIC

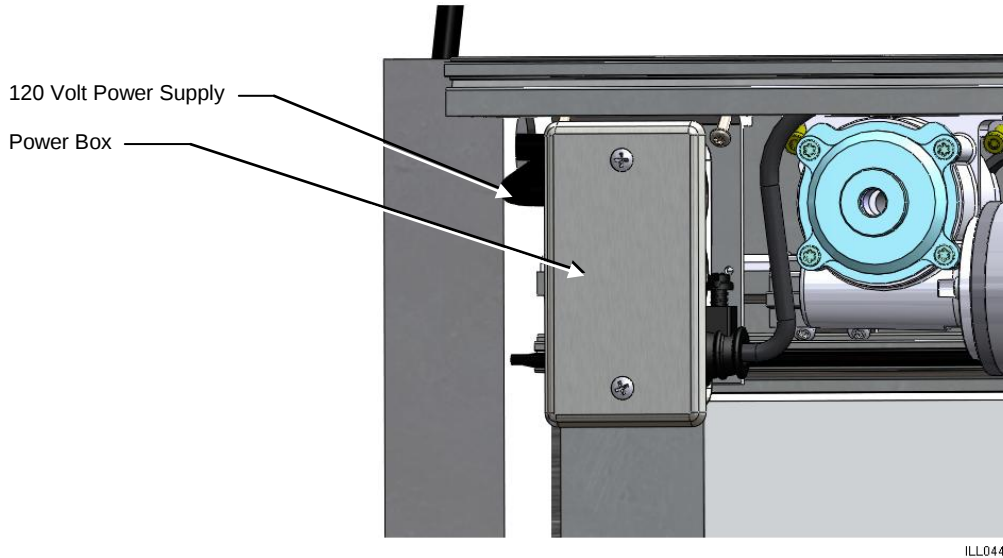
- NOTES: 1. CONNECT ACTIVATION DEVICES TO CONTROLLER TERMINALS 1 & 2
2. FOR ONE WAY TRAFFIC, DISCONNECT ACTIVATION ON THE NON-TRAFFIC SIDE
3. FUNCTION SELECTOR SWITCH 2 IS SET TO "ON"

FUNCTION SELECTOR

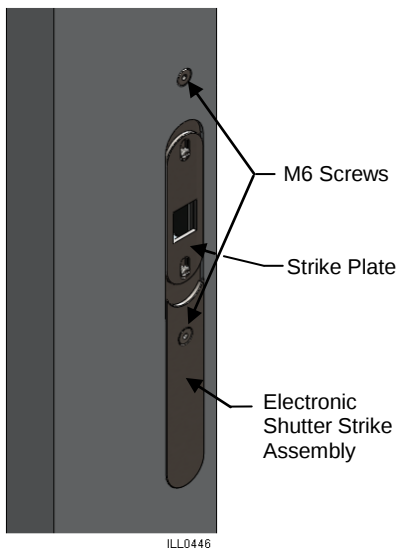
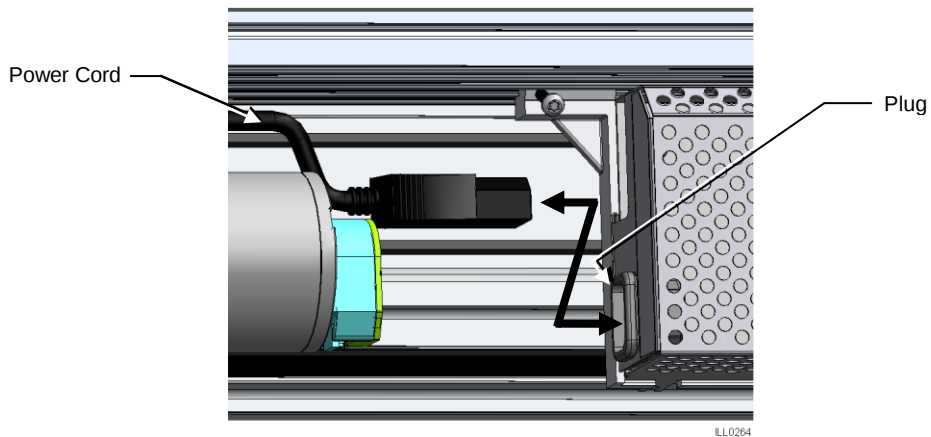


ILL0441

2. Attach 120 Volt power supply to power box.

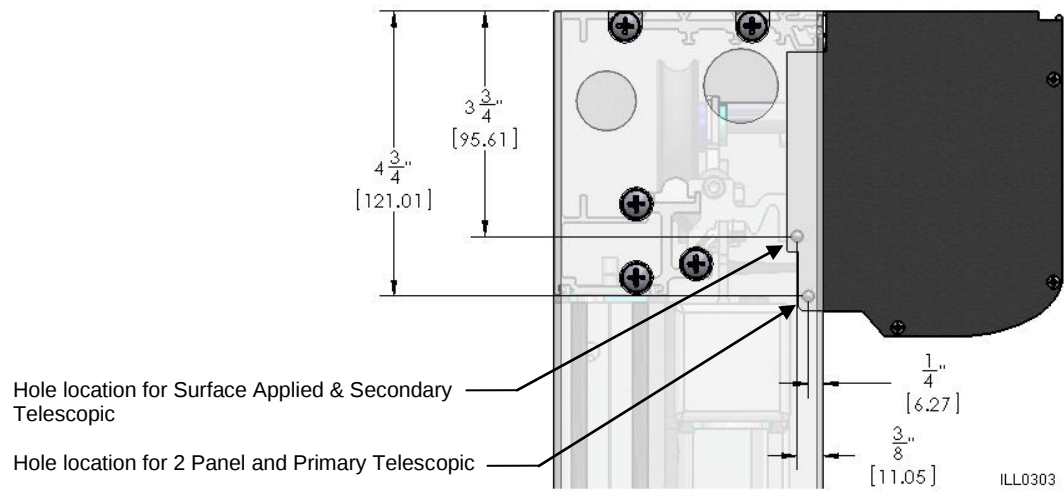


3. Plug power cord into Controller.

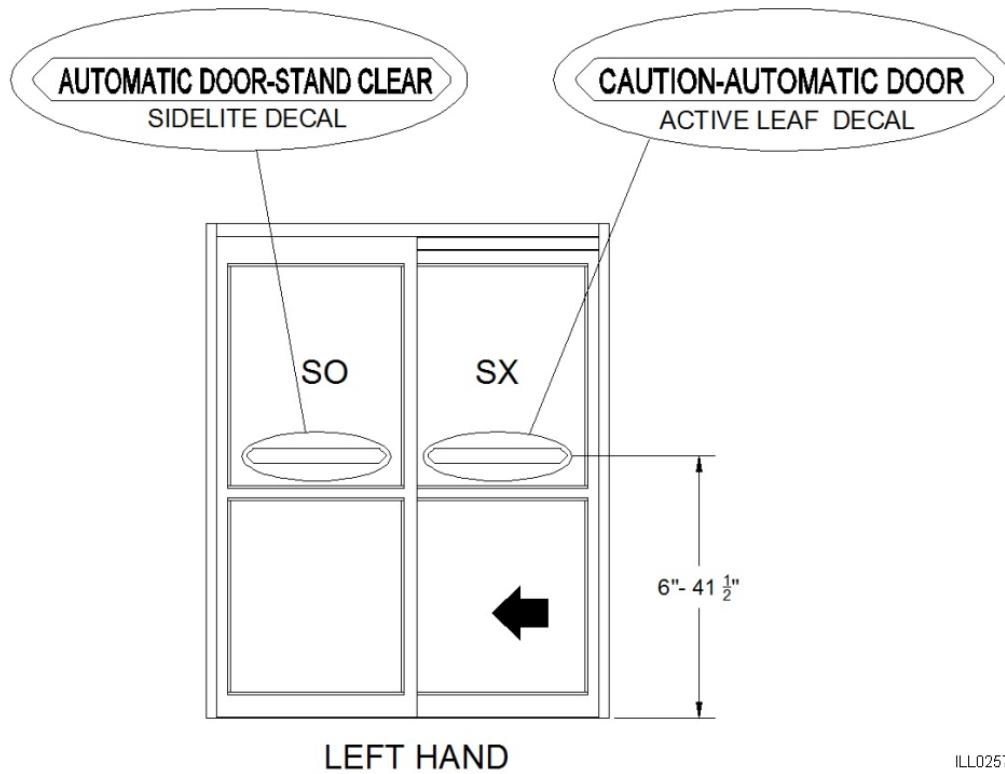


4. (Trackless Packages) Move door stops towards jambs so pivot block will hit pin.
5. Tune in door per UniSlide Installation Manual. (**Opening door speed is set to 1ft/sec. Closing door speed is set to 6 in/sec. This is not adjustable; however, the latch speed is adjustable.**)
6. Check door adjustments and operating systems before testing door. Reference appropriate documentation shipped with this package before performing this task.
7. To adjust Access Control/Electric Shutter Strike, loosen the two M6 screws with Allen wrench.
8. Move Shutter Strike assembly to desired location and retighten M6 screws, securing assembly in desired location.
9. Once screws are tightened, confirm that Strike Plate still moves freely.

10. Close cover and align hole in end cap with pre-drilled hole and using a self tapping screw, lock the cover. (Self tapping #10 screw is located in end cap kit.)



Signage



ILL0257

Note!

The above graphic indicates the typical signage location and type for each package.

Retrofit Kit Installation

The installation of the Touchless Automatic Door option may occur as a field installed retrofit kit installation at the customer's site. As such, each situation and package is approached differently.

Caution!

Although the Electronic Shutter Strike/Access Control Retrofit is possible, it is not recommended due to the complexity and special tools required. If it is unavoidable, contact Technical Services before proceeding.

Retrofit Kit Preliminary Preparation

This process contains information for preparing the ICU/CCU 2-Panel or Telescopic Panel Packages for the Touchless Automatic Door option.

For 2-Panel Units

1. Remove cover and end plates. (See "[2 and 4-Panel Retrofit Kits](#)" process below.)
2. Remove the Self Closing System if one is present.
3. Remove opening and closing Wedge Dampener if one is present.

For Telescopic Units

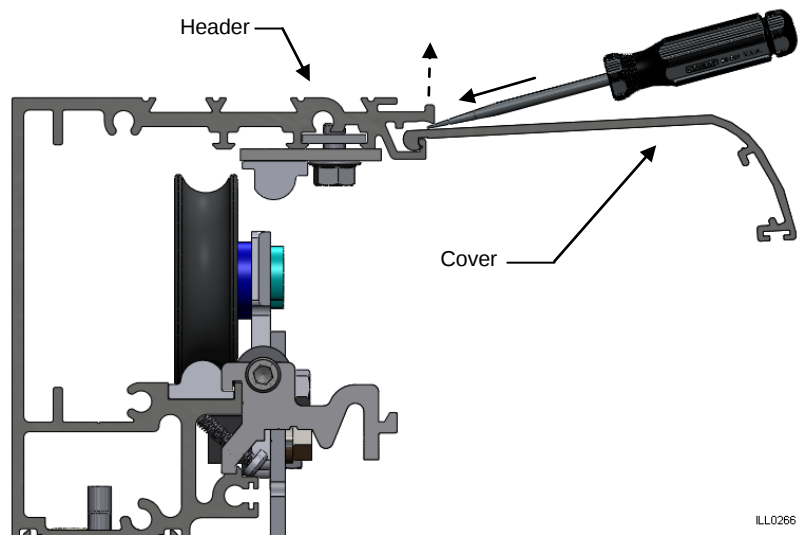
1. Remove cover, end plates, and beam extension. (See "[Telescopic Retrofit Kits](#)" process below.)
2. Remove the Self Closing System if one is present.
3. Remove opening and closing Wedge Dampener if one is present.

Follow the process below, prefabricating where necessary. (May require holes to be drilled, modification of hardware, etc..)

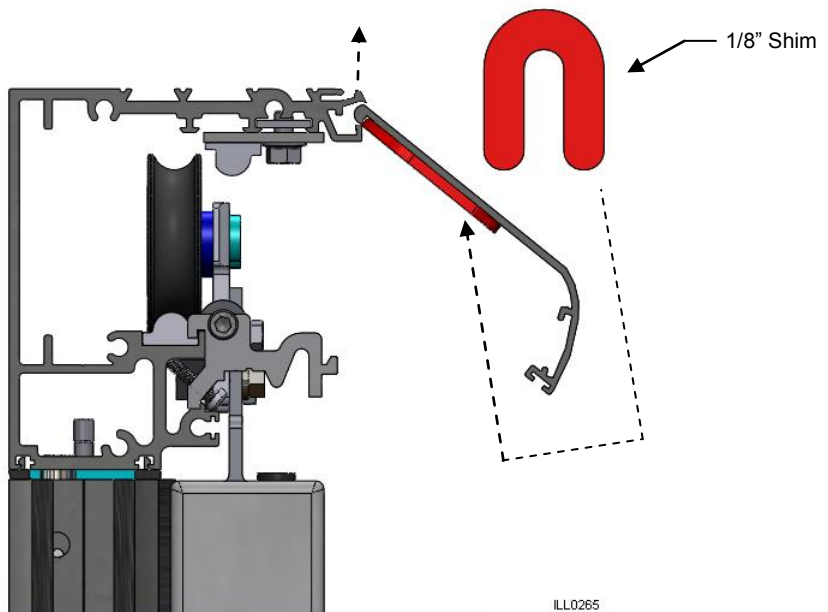
2 and 4-Panel Retrofit Kits

1. Unlock cover.
2. Insert large flathead screwdriver between header and cover, at a location measuring laterally approximately 4 – 6" in from the end of header, and bend header upward only enough to allow part of the cover to be removed.

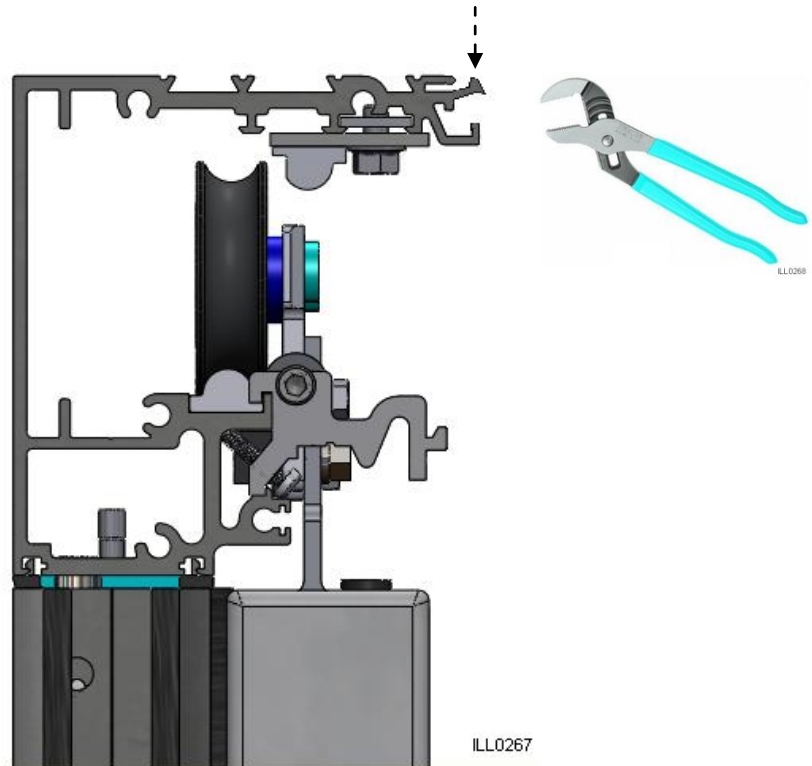
Important!
Do not distort header any more than necessary to start cover removal.



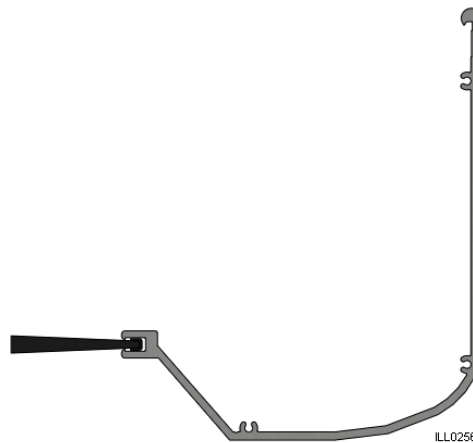
3. Insert 1/8" thick shim between cover and header as shown, close cover, forcing the cover out of hinge. As before, again relocate the shim 2" further down the cover and again, close the cover forcing the cover further out of the hinge. Repeat this process down the full length of the cover until the cover has been removed.



4. When removal of cover is completed, use channel locks to bend top lip of header back to its original location.



5. Insert brush into cover.



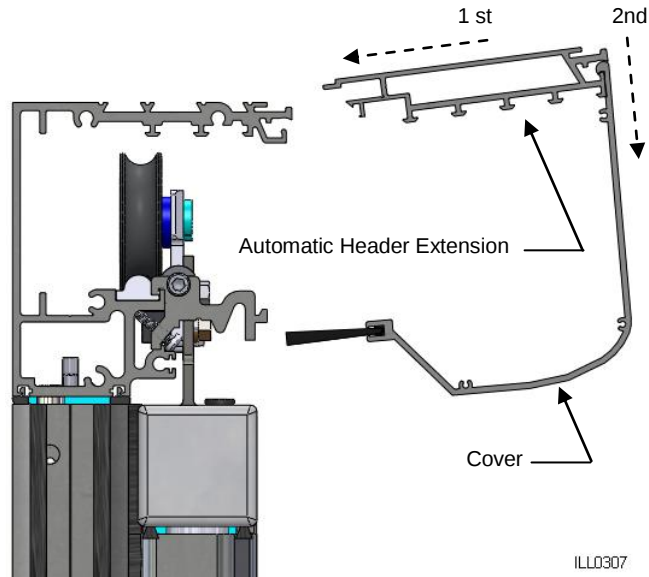
6. Install cover onto automatic header extension.

Note!

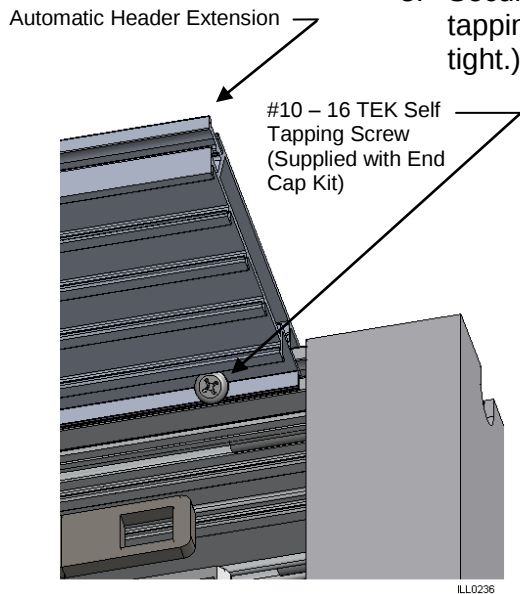
Covers over 8' will require an additional section of brush. In these instances, ensure that the brushes are mounted end-to-end in such a manner as to appear to be one brush.

7. Snap in ICU automatic header extension and cover into header as shown in illustration.

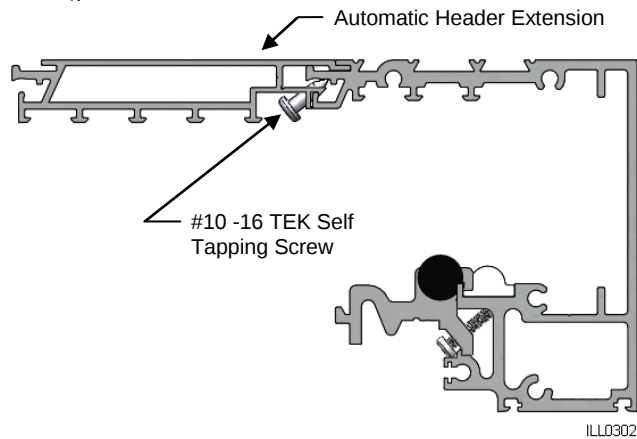
Tip:
When installing automatic header extension onto reworked header, use lubricant to ease header extension into position.



8. Secure automatic header extension to header with self tapping TEK Screws at each end as shown. (Ensure that it is tight.)

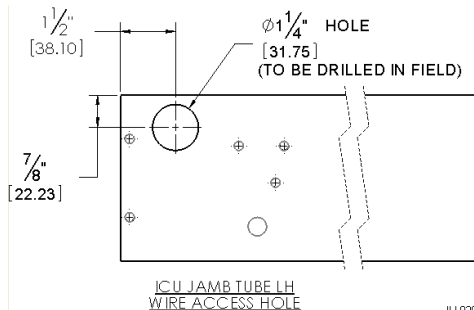


Note: Ensure that when using the TEK Self Tapping screw, that it correctly intersects both the cover and the header, acting as a setscrew.

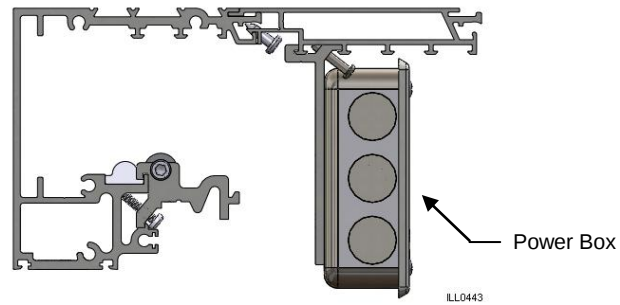


9. Prep jamb for wire access. (Reference illustrations below.)

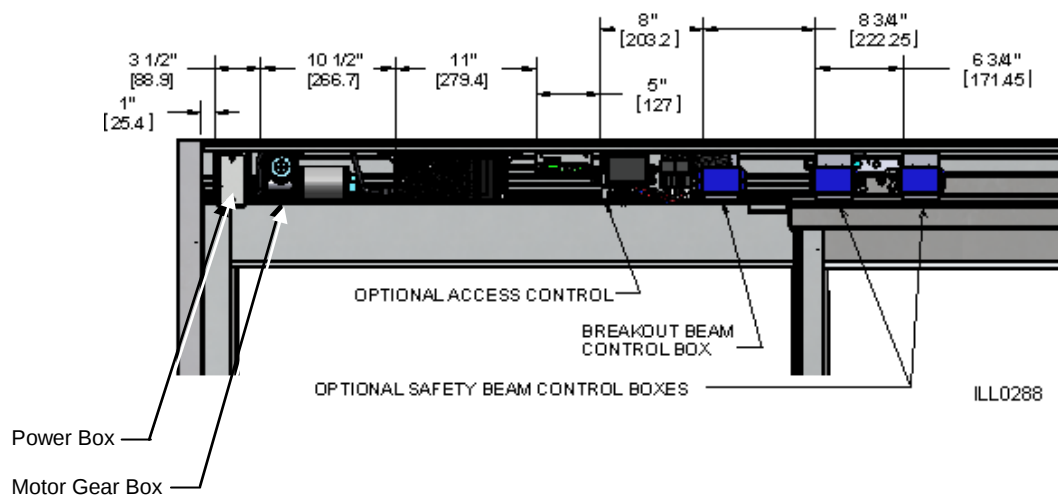
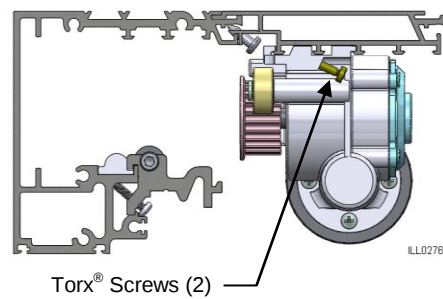
Note!
Information in this graphic is the same for both jambs.



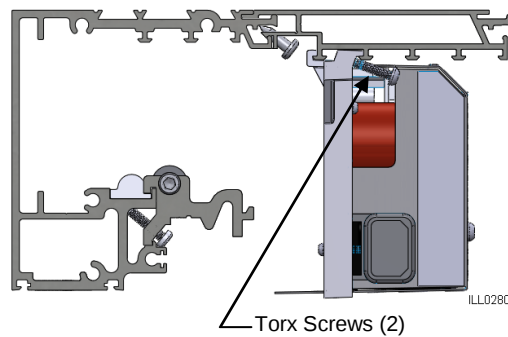
10. Install power box to automatic header extension.



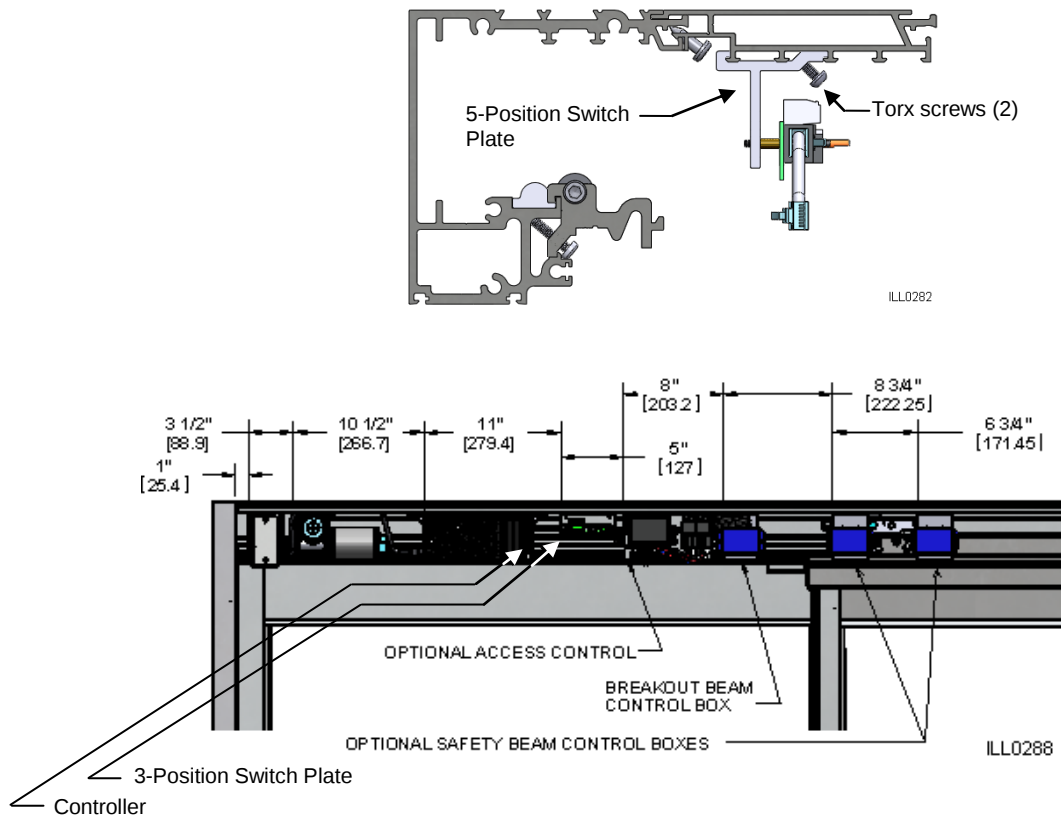
11. Install motor gear box to automatic header extension.



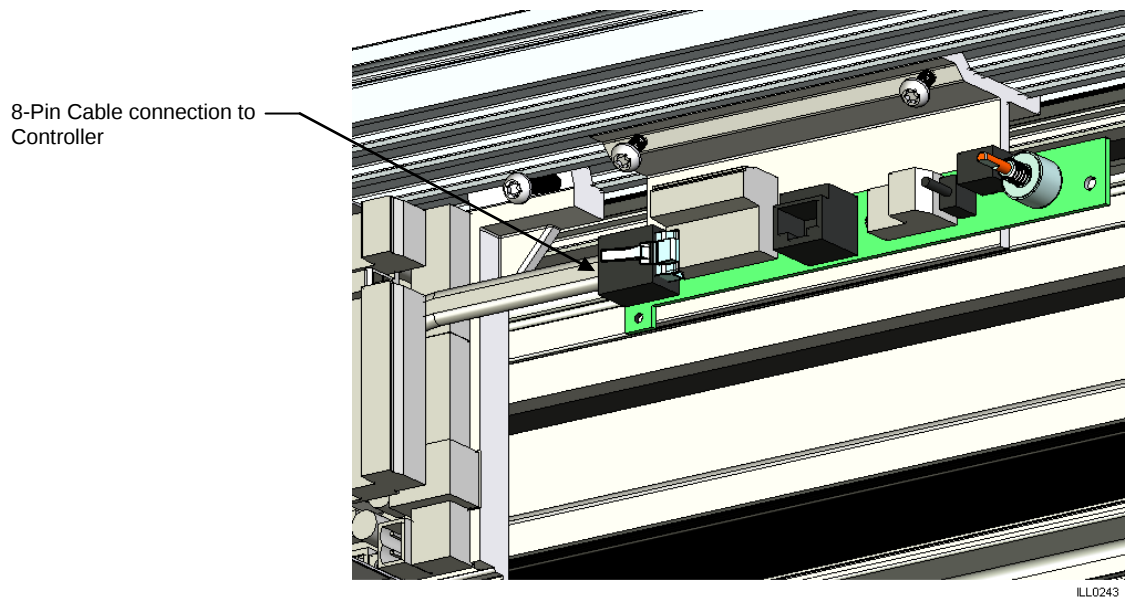
12. Install controller to automatic header extension.



13. Install 3-position switch plate to automatic header extension.



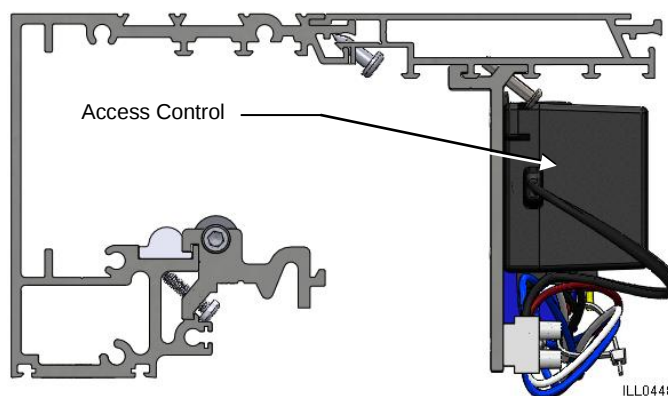
14. Attach 8-pin cable from 5 position switch plate to controller and use tie-wraps to secure extra wiring away from moving members.



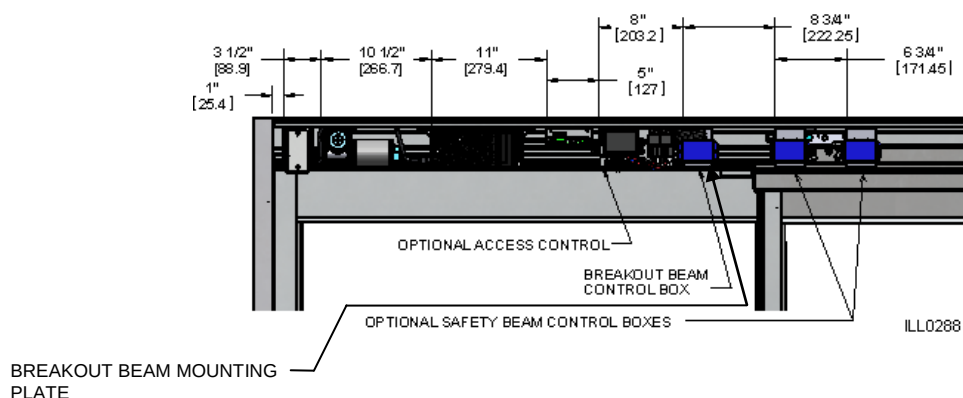
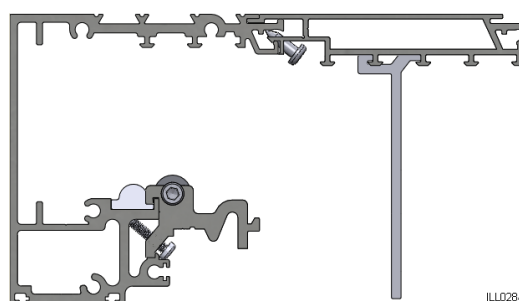
15. If present, Install Access Control option for remote control.

Caution!

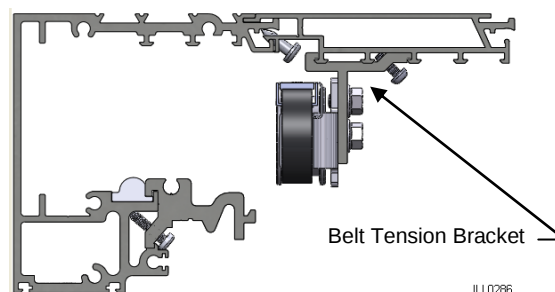
Although the Electronic Shutter Strike/Access Control Retrofit is possible, it is not recommended due to the complexity and special tools required. If it is unavoidable, contact Technical Services before proceeding.

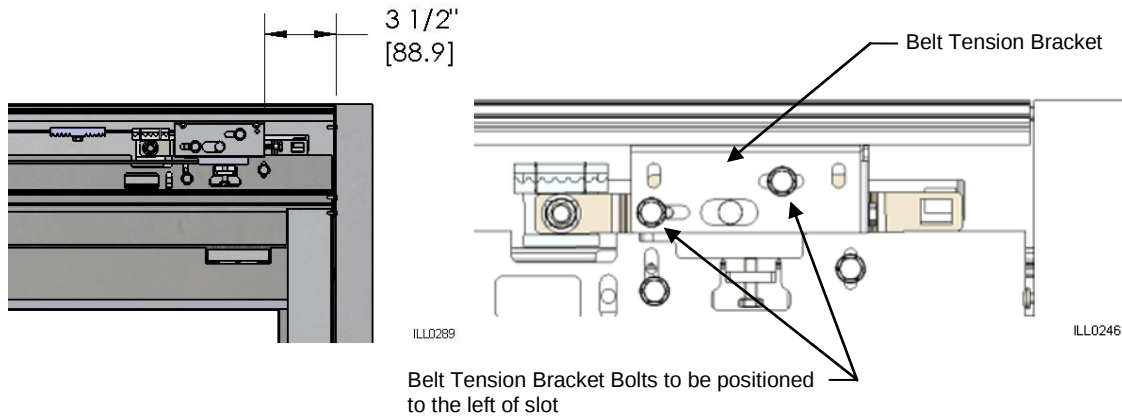


16. Install mounting plate for breakout beam box and optional safety beam if required.

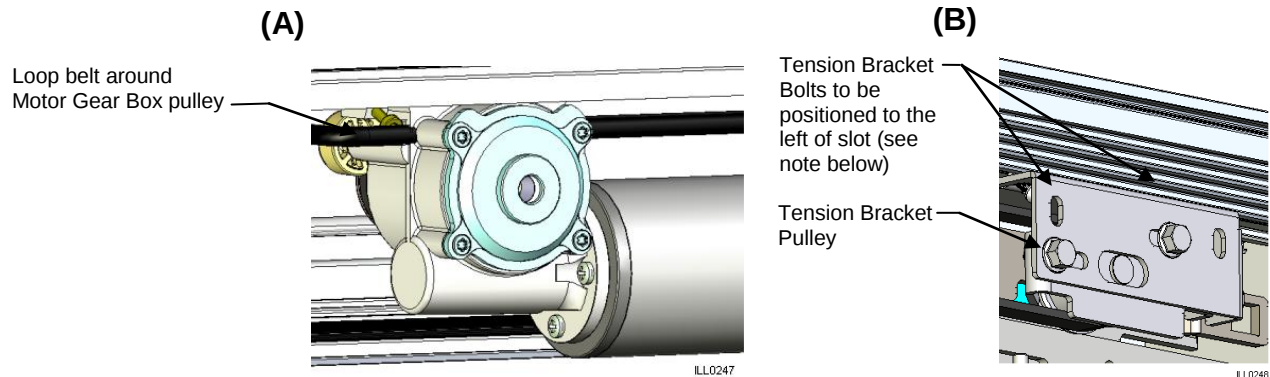


17. Install belt tension bracket.



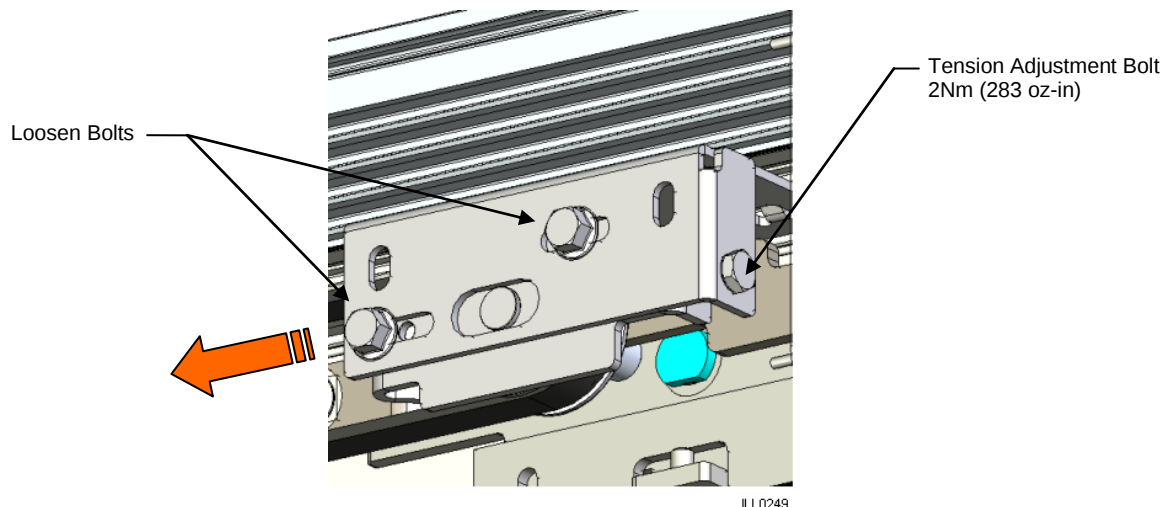


18. Loop belt around motor gear box and place over pulley (A), then extend belt ends to and around Tension Bracket Pulley (B).

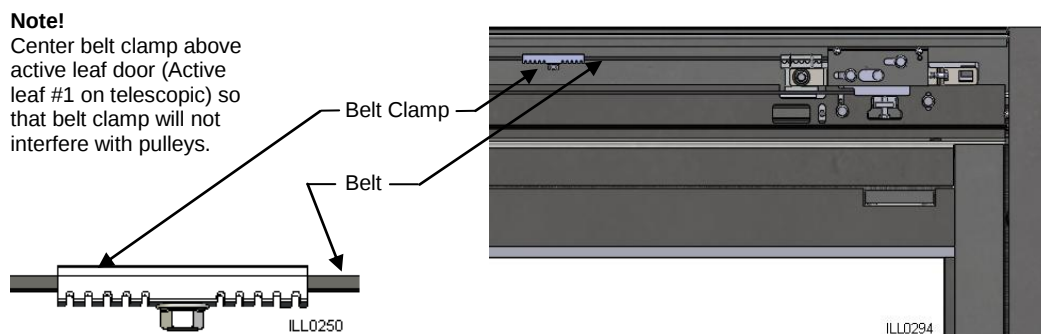


Note!

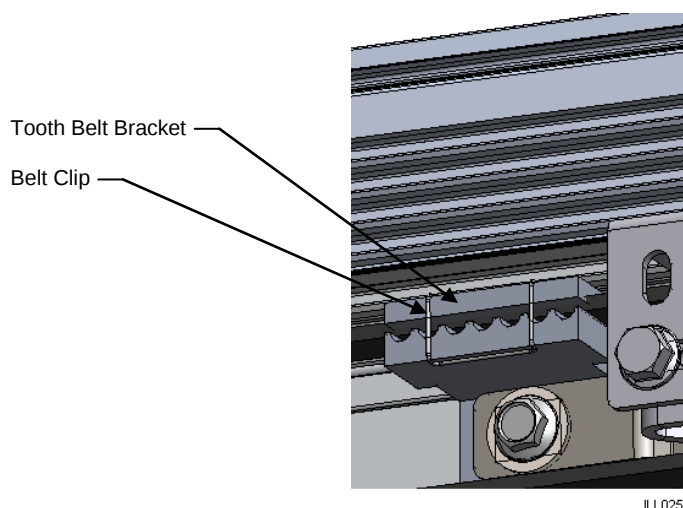
Bolts in tension bracket pulley should be loosened and the bracket moved toward the motor, before calculating and cutting the belt to length.



19. Determine the correct length of belt and cut, joining belt ends inside belt clamp. (Belt should have slight tension on it when connected. Reference the UniSlide Installation Manual for belt tension instructions.)



20. Insert belt into tooth belt bracket and add belt clip to tooth belt bracket.



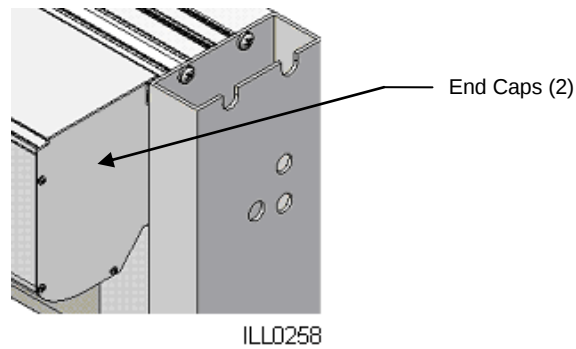
Note!
Belt clip may rub on controller on larger packages. Remove belt clip if rubbing.

21. Install sensors/activation units (this must be done before installing the belt for ease of installation). Use the appropriate sections (A – E) in this step to install the sensors/activation units supplied with your package.

Note!

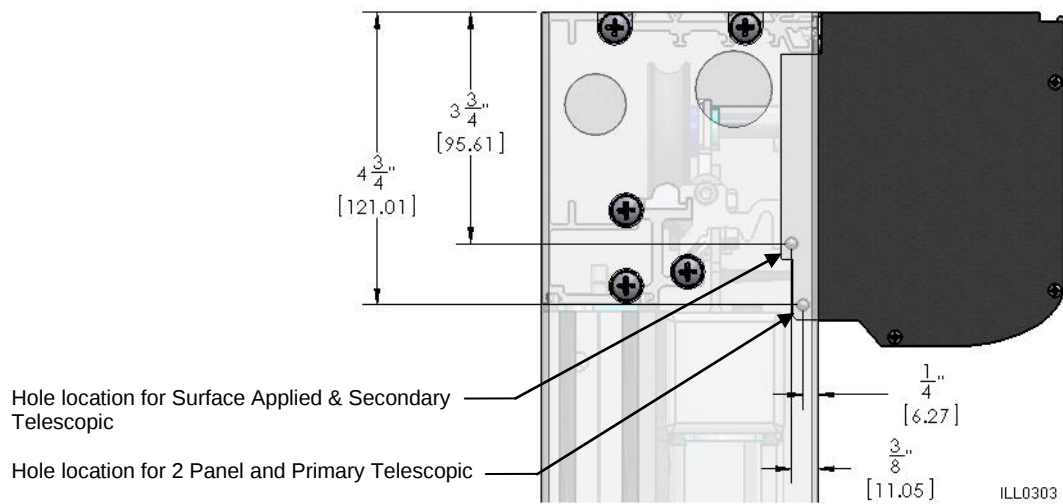
22. Before installing any sensor/activation unit, field jamb preparation is required. Check each option and complete the jamb preparation required for this particular package. Once the required jamb preparation is completed, attach jambs to header for wire routing for sensors/activation units.

23. Install End Caps.



24. Check door adjustments and operating systems before testing the door. Reference appropriate documentation shipped with this package before performing this task.

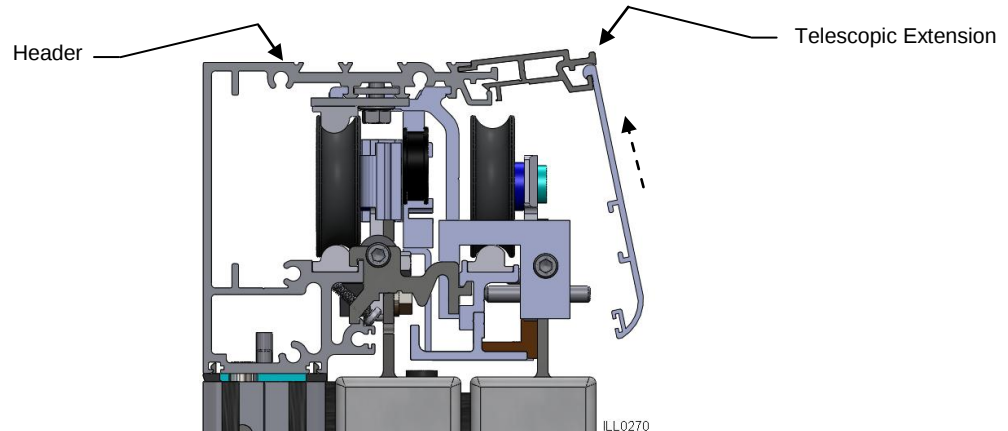
25. Pre-drill 1/8" hole in each jamb. (See graphic below.)



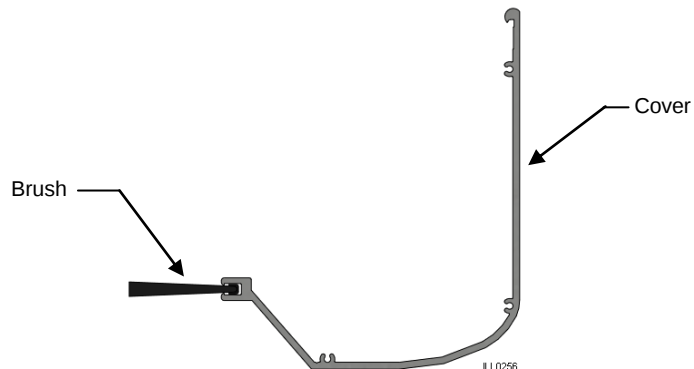
26. Close cover and align hole in end cap with pre-drilled hole, and using a self tapping screw, lock the cover. (Self tapping #10 screw is located in end cap kit.)

Telescopic Retrofit Kits

1. Unlock cover.
2. Using necessary force to unsnap telescopic extension from header, pulling header telescopic extension and cover up and away from header to remove from package.



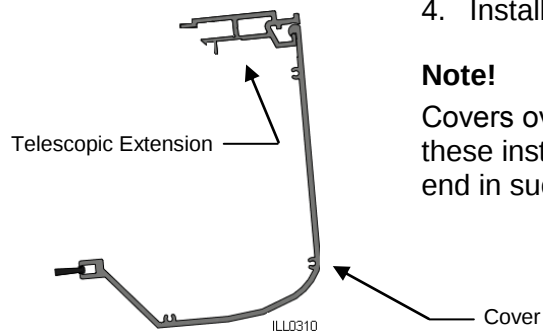
3. After removing existing cover from telescopic extension, insert brush into new cover.



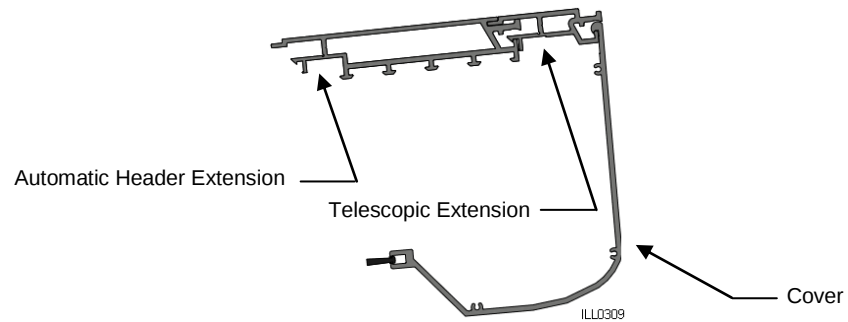
4. Install cover onto telescopic extension.

Note!

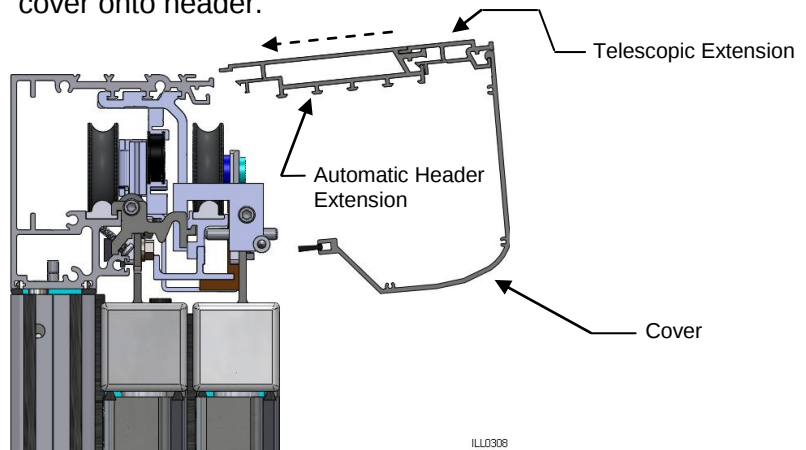
Covers over 8' will require an additional section of brush. In these instances, ensure that the brushes are mounted end-to-end in such a manner as to appear to be one brush.



5. Install telescopic extension and cover onto automatic header extension.

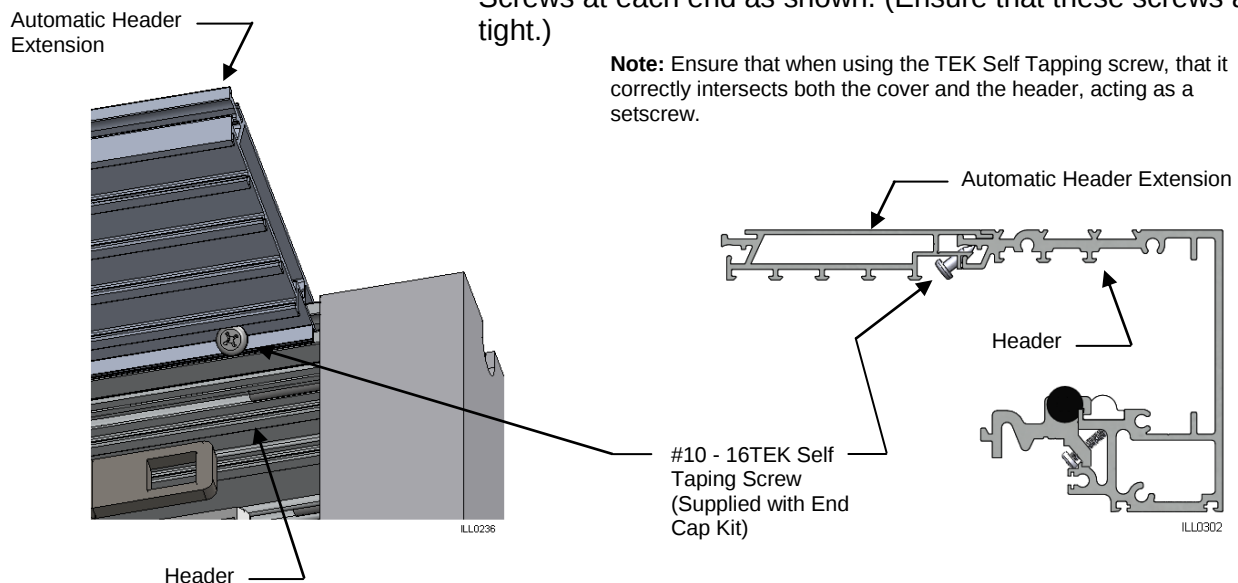


6. Install automatic header extension, telescopic extension and cover onto header.



7. Secure header extension to header using TEK Self Tapping Screws at each end as shown. (Ensure that these screws are tight.)

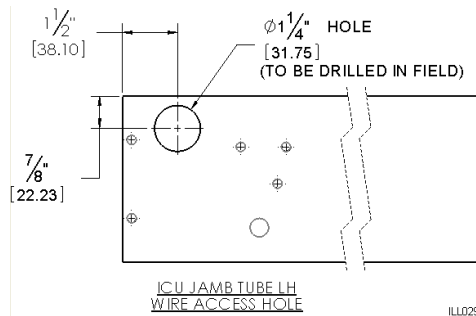
Note: Ensure that when using the TEK Self Tapping screw, that it correctly intersects both the cover and the header, acting as a setscrew.



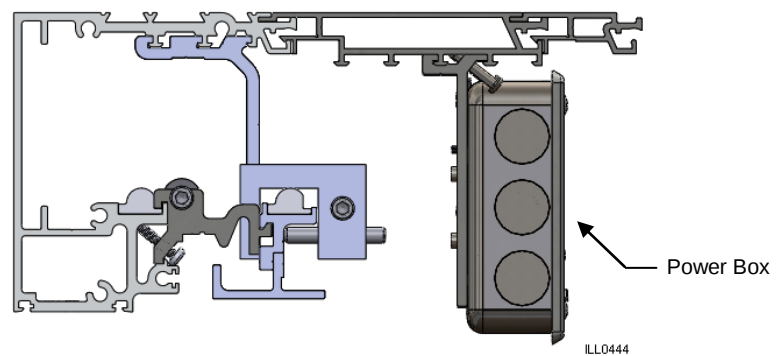
8. Prep jamb for wire access. (Reference illustrations below.)

Note!

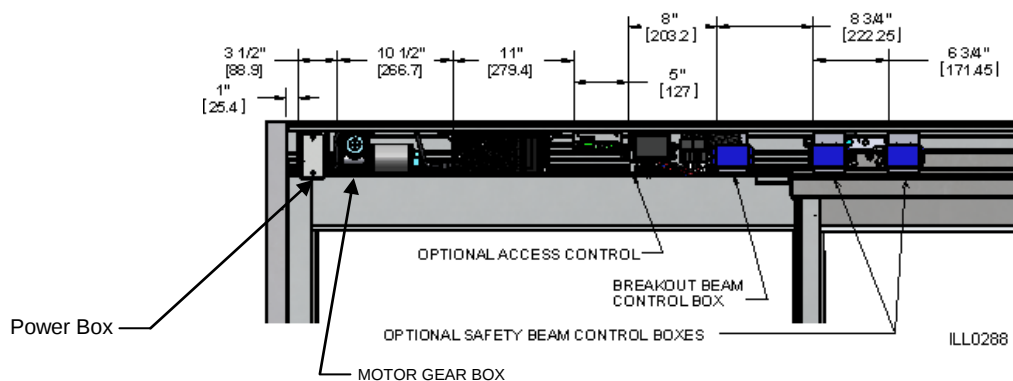
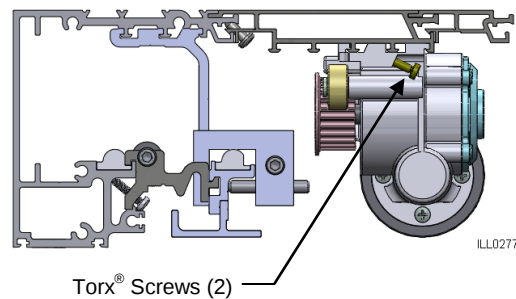
Information in this graphic is the same for both jambs.



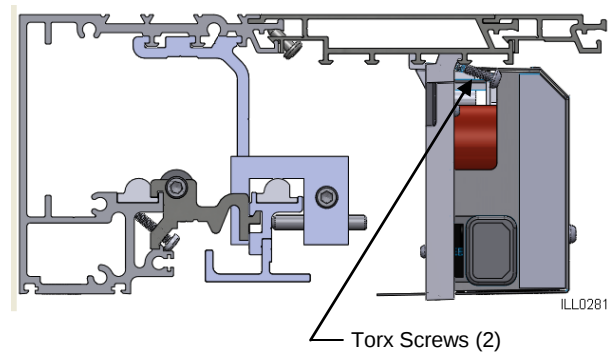
9. Install power box to automatic header extension.



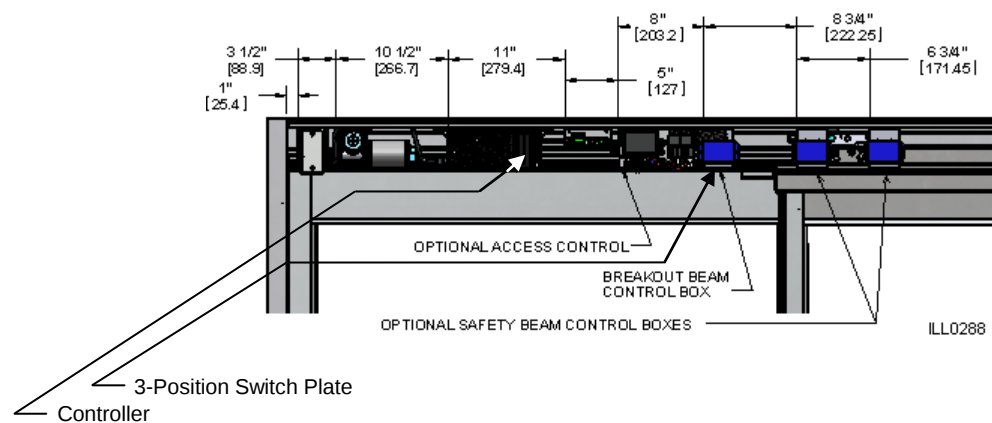
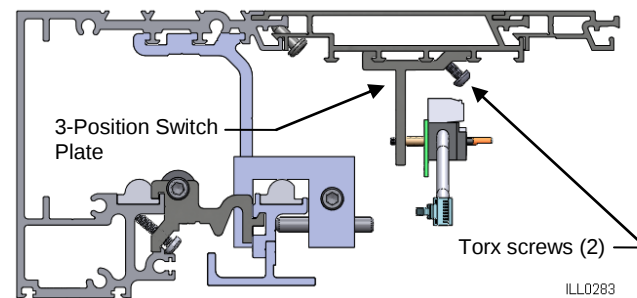
10. Install motor gear box to automatic header extension.



11. Install controller to automatic header extension.

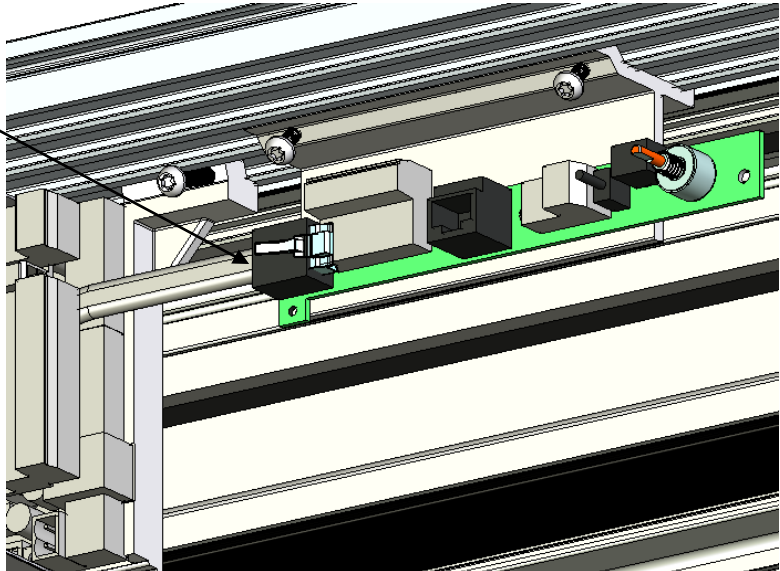


12. Install 3-position switch plate to automatic header extension.



13. Attach 8-pin cable from 3-position switch plate to controller and use tie-wraps to secure extra wiring away from moving members.

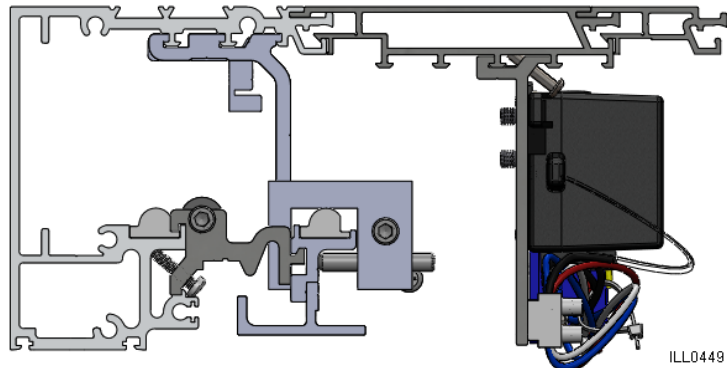
8-Pin Cable connection to Controller



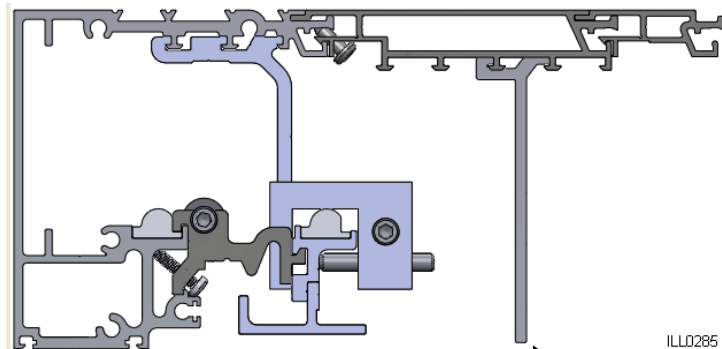
14. If required, install Access Control option to Automatic Header Extension.

Caution!

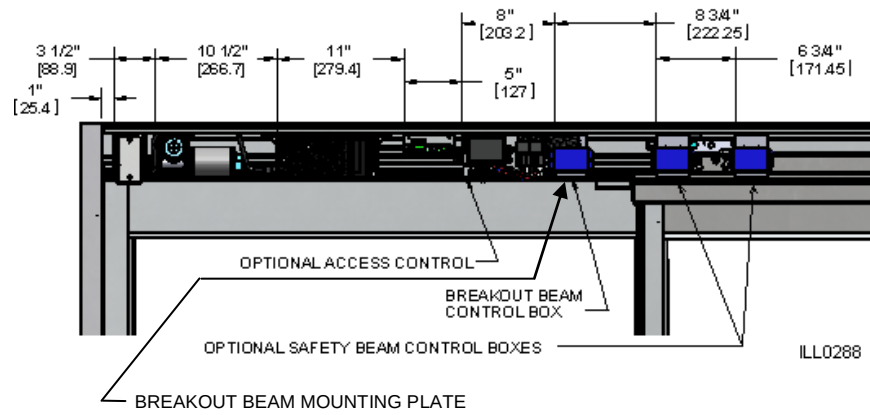
Although the Electronic Shutter Strike/Access Control Retrofit is possible, it is not recommended due to the complexity and special tools required. If it is unavoidable, contact Technical Services before proceeding.



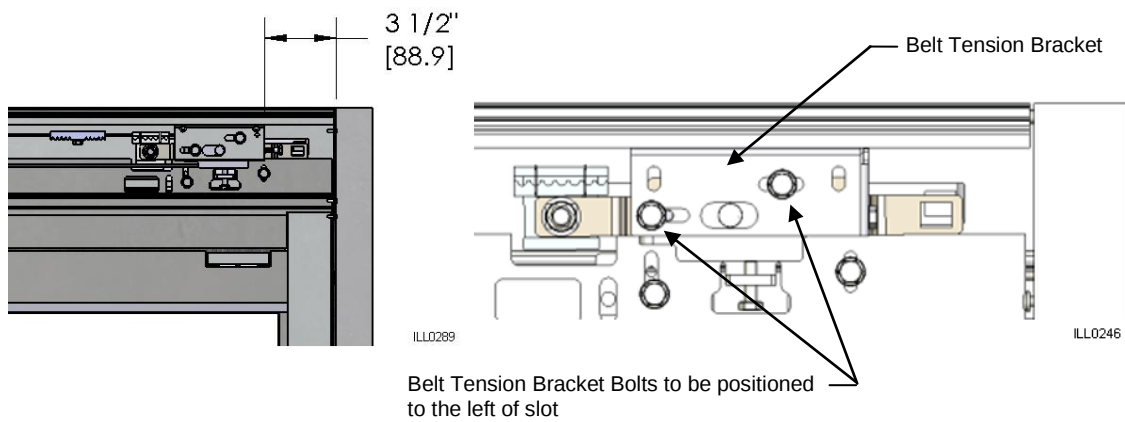
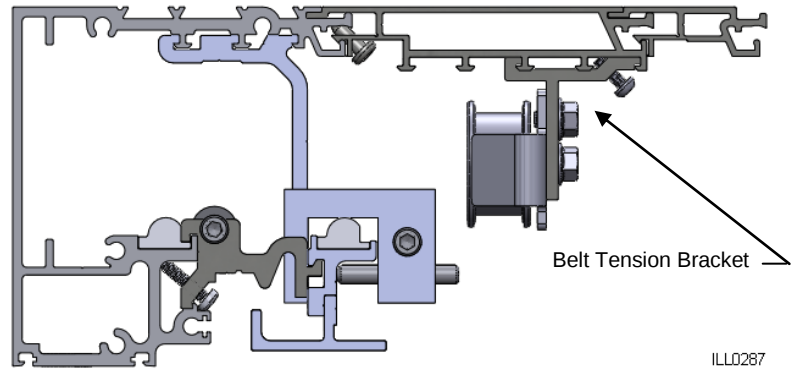
15. Install mounting plate for breakout beam box and optional safety beam if required.



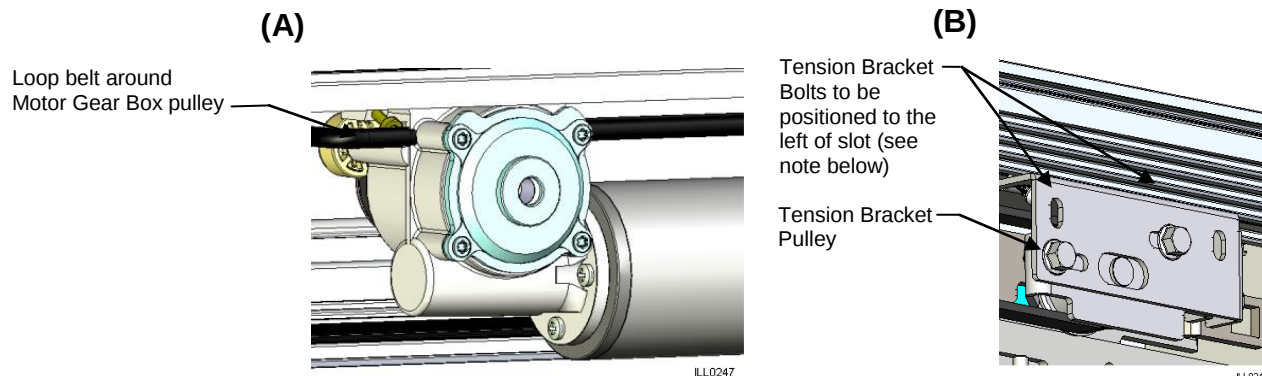
Breakout Beam Box and Optional Safety Beam mounting plates



16. Install belt tension bracket.

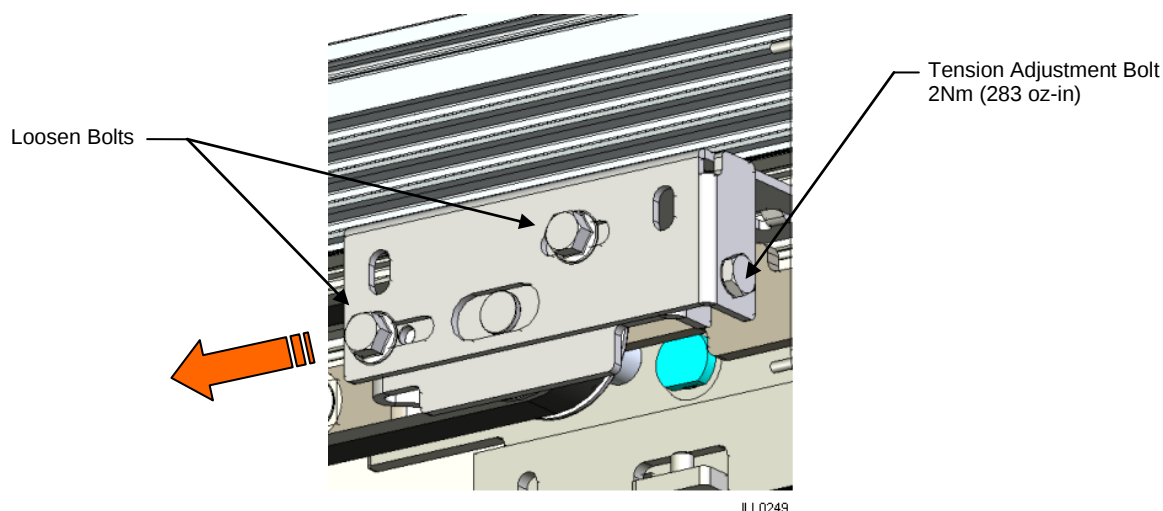


17. Loop belt around motor gear box and place over pulley (A), then extend belt ends to and around Tension Bracket Pulley (B).

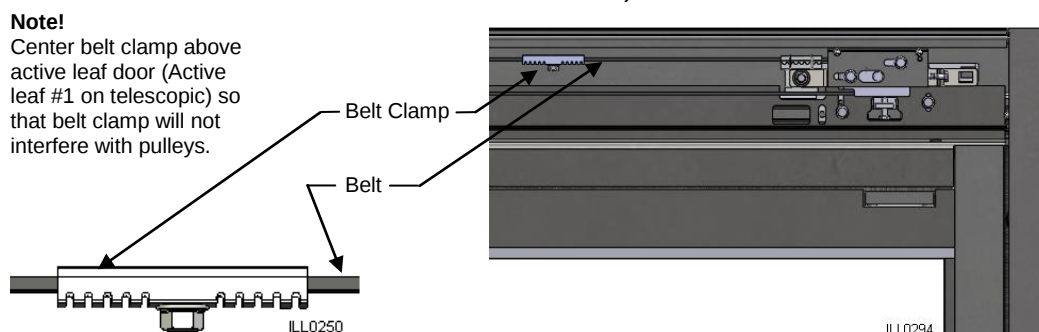


Note!

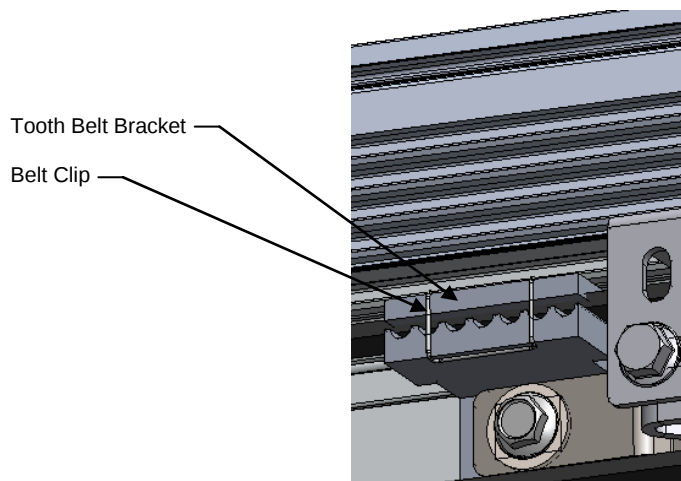
Bolts in tension bracket pulley should be loosened and the bracket moved toward the motor, before calculating and cutting the belt to length.



18. Determine the correct length of belt and cut, joining belt ends inside belt clamp. (Belt should have slight tension on it when connected. Reference the UniSlide Installation Manual for belt tension instructions.)



19. Insert belt into tooth belt bracket and add belt clip to tooth belt bracket.

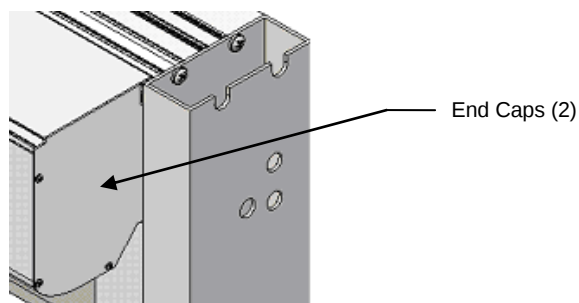


Note!

Belt clip may rub on controller on larger packages. Remove belt clip if rubbing.

ILL0252

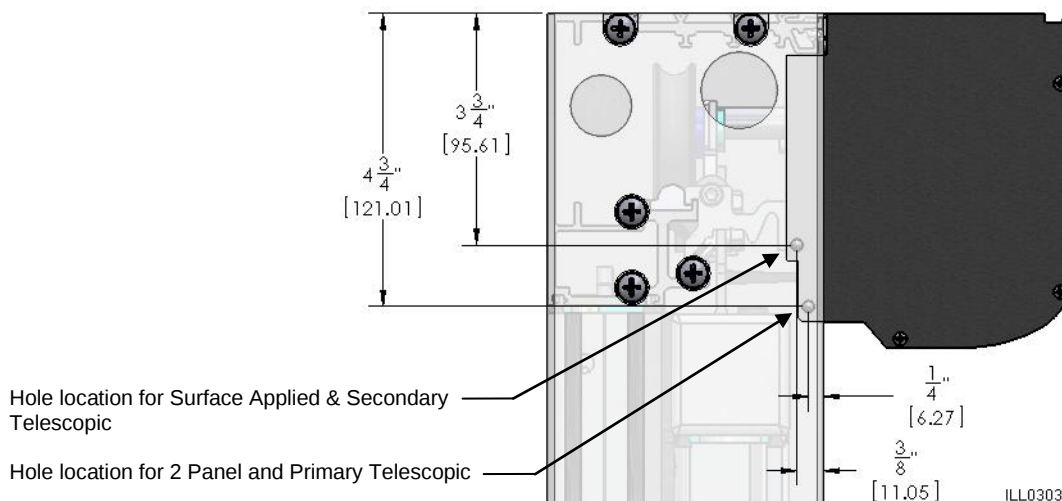
20. Install end caps.



ILL0258

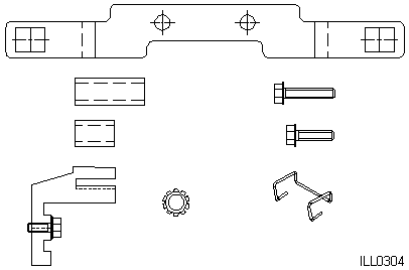
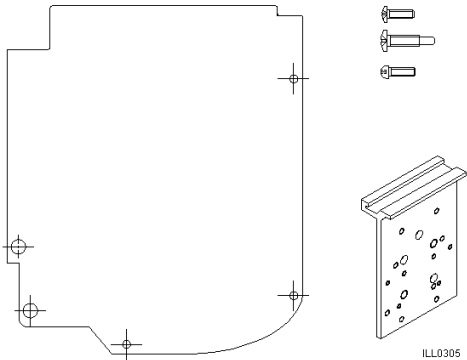
21. Check door adjustments and operating systems before testing the door. Reference appropriate documentation shipped with this package before performing this task.

22. Pre-drill 1/8" hole in each jamb. (See graphic below.)



23. Close cover and align hole in end cap with pre-drilled hole and using a self tapping screw, lock the cover. (Self tapping #10 screw is located in end cap kit.)

Spare Parts

Part Number	Description	View
US15-1699-01	Belt Bracket Kit	
US15-1699-02	End Cap Kit	

[illegible]



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1-877-BESAM-87 (866-237-2687) (sales)

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