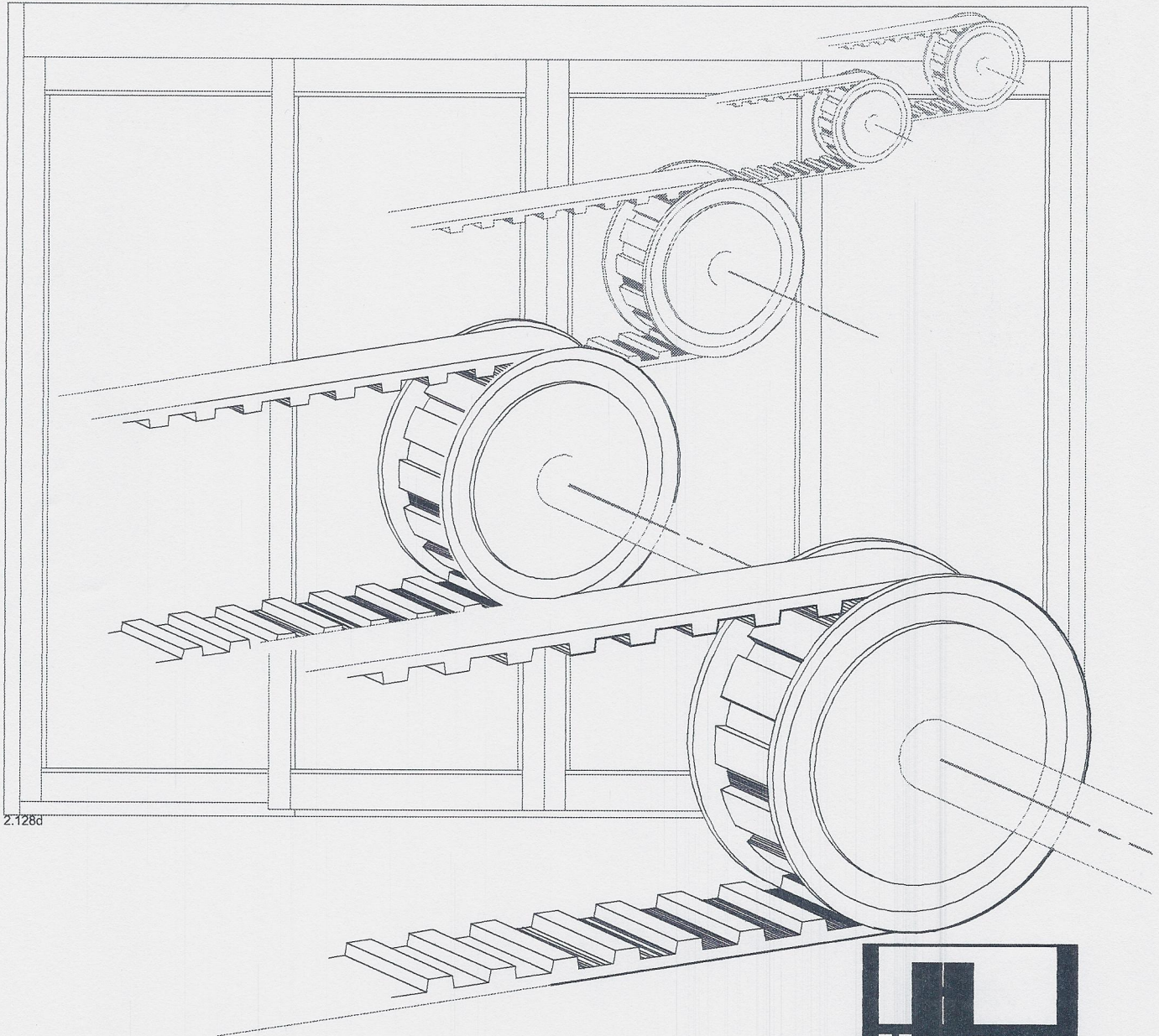


Series 2003 Belt Drive Electric Slide Door Operator Installation Instructions



2.128d

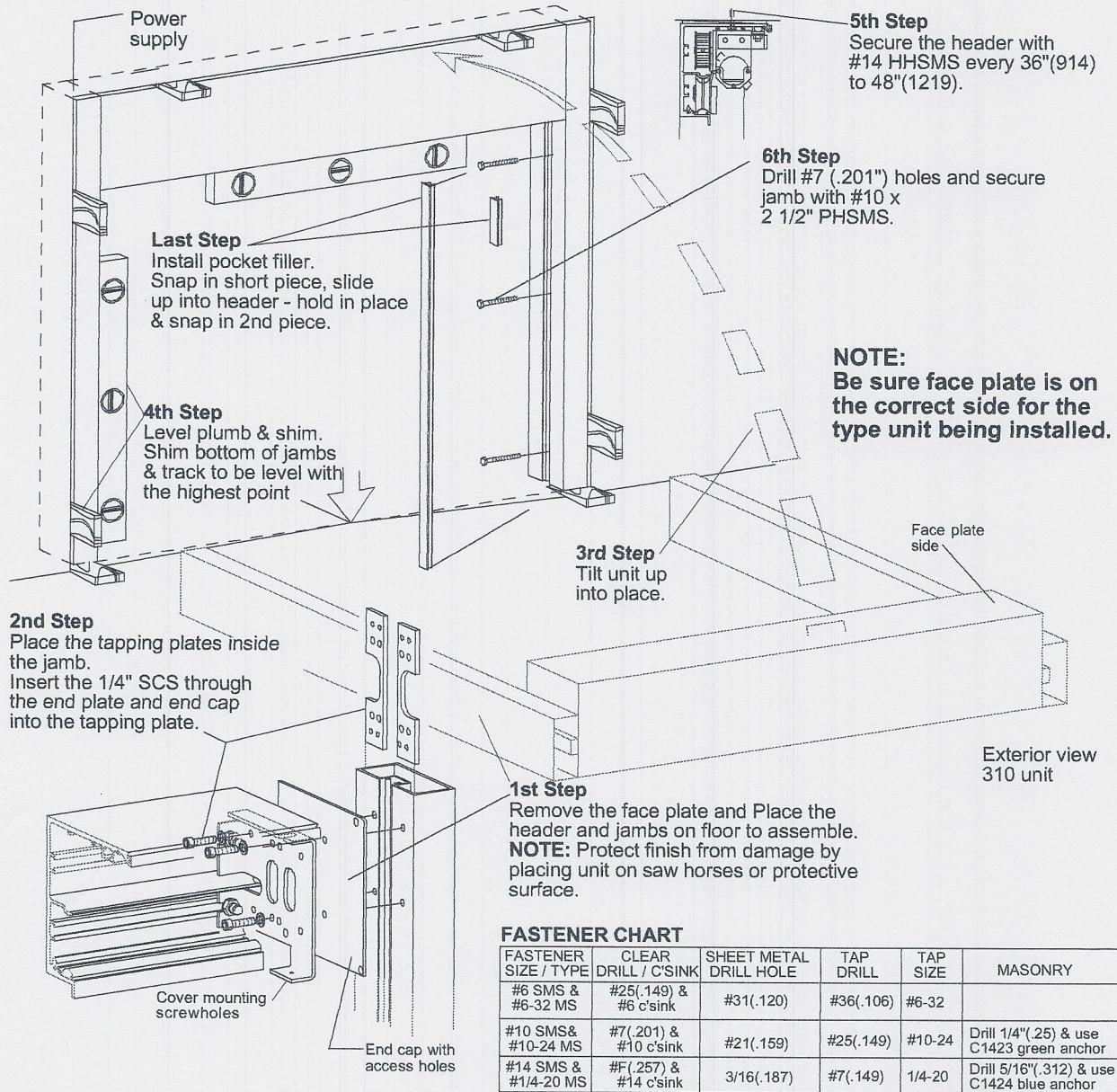


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3. INSTALLING FRAME

Take care that the frame is not racked. Wood shingles will be needed to shim the unit. All the fasteners shown below are provided with each unit. If these are inappropriate, alternate fasteners are shown in the fastener chart. Route power supply wiring and low voltage wiring.

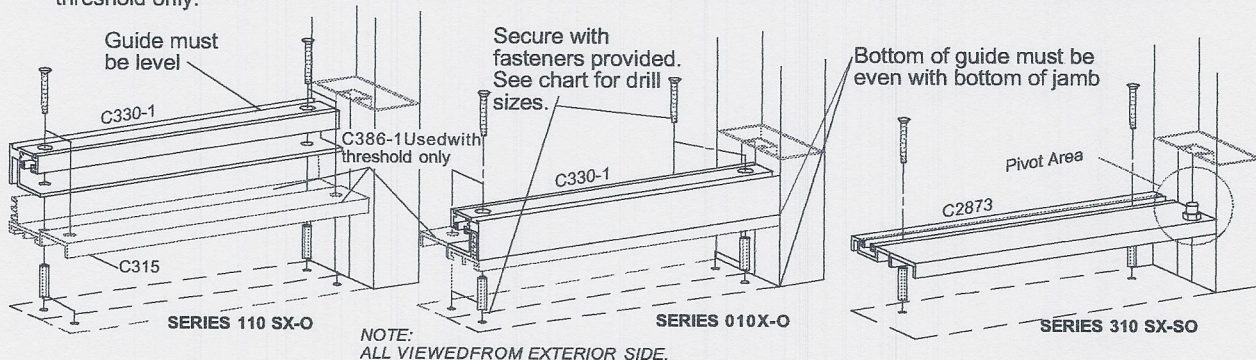


FASTENER CHART

FASTENER SIZE / TYPE	CLEAR DRILL / C'SINK	SHEET METAL DRILL HOLE	TAP DRILL	TAP SIZE	MASONRY
#6 SMS & #6-32 MS	#25(.149) & #6 c'sink	#31(.120)	#36(.106)	#6-32	
#10 SMS & #10-24 MS	#7(.201) & #10 c'sink	#21(.159)	#25(.149)	#10-24	Drill 1/4"(.25) & use C1423 green anchor
#14 SMS & #14-20 MS	#F(.257) & #14 c'sink	3/16(.187)	#7(.149)	1/4-20	Drill 5/16"(.312) & use C1424 blue anchor

4. INSTALLING FLOOR GUIDES

Bottom guides will vary with the unit type. The 3 basic types are shown below. The C315 / C386-1 filler is used with threshold only.



5. INSTALLING SIDE PANELS

2 types of side panels are shown "O" fixed and "SO" swing panel. If panels are to be glazed before installation see section 7.

Panels come assembled and prewired from the factory, unless side panels are extra large.

TYPE 010 OR 110 "O" PANEL

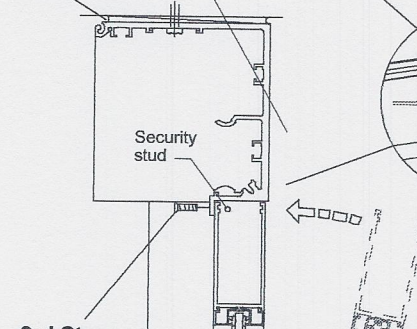
1st Step

Position the "O" panel, as shown, in the C330-1 bottom guide about 1" from the jamb to clear security stud.

2nd Step

Connect safety wiring harness from door panel to harness in header. Place wire in notch and feed into door panel as unit is tilted into place.

Do not fill joint with caulk or cover will bind



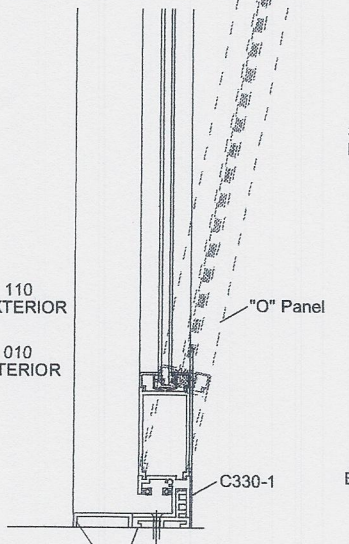
3rd Step

Slide panel against the jamb & match drill with #21 (.159) bit thru existing holes into top rail. Secure with #10 screws.

NOTE: there will be a small space between top of panel and bottom of header.

110 EXTERIOR

010 INTERIOR



Use C386-1 /C315 only with threshold applications.

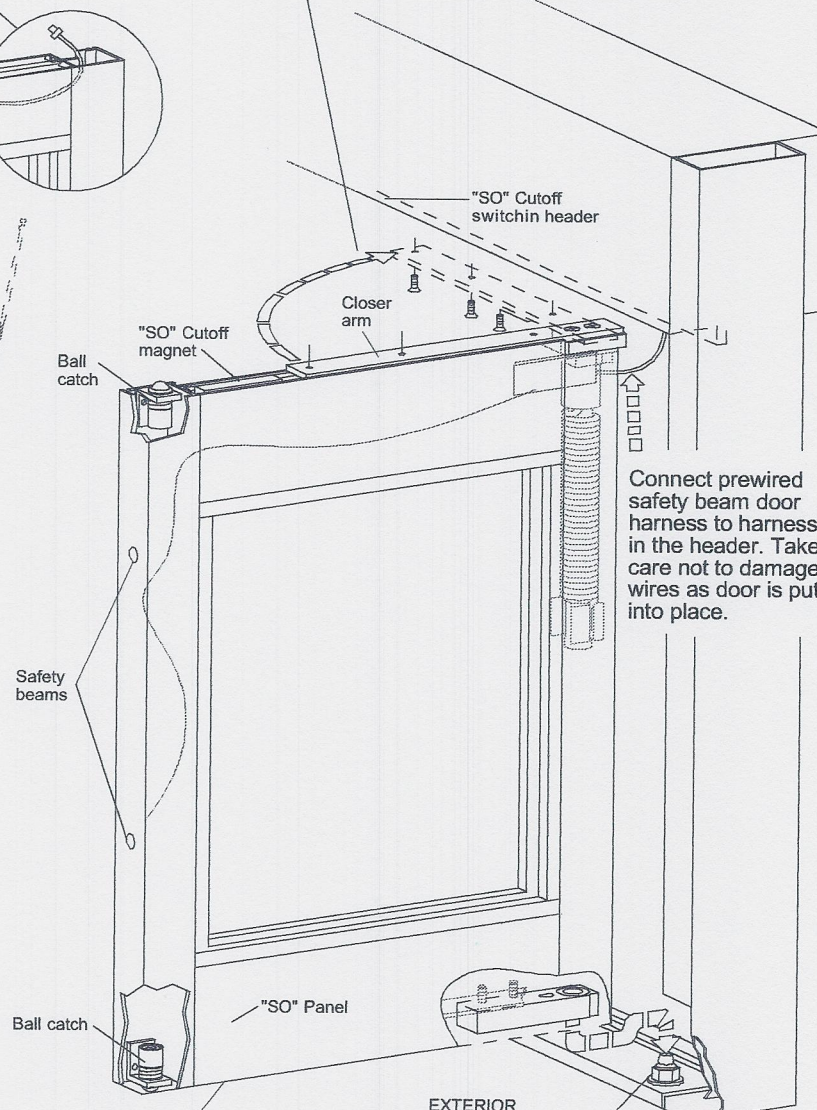
TYPE 310 OR 410 "SO" PANEL

2nd Step

Place "SO" panel in open position & rotate closer arm under header. Secure "SO" closer with #10 screws.

CAUTION:

Closer arm is spring loaded. Take precautions to avoid injury.



Connect prewired safety beam door harness to harness in the header. Take care not to damage wires as door is put into place.

1st Step

Install weather strip before mounting panel.

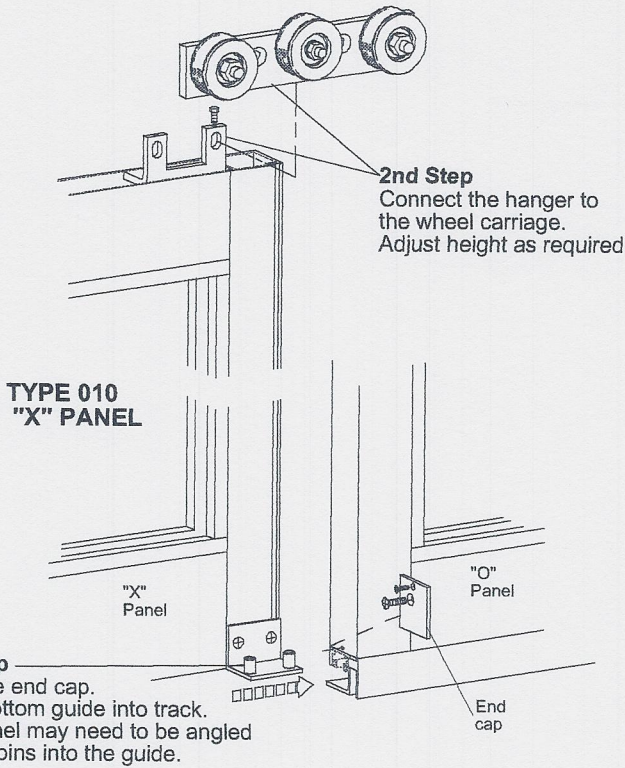
2nd Step

Place "SO" Panel on bottom pivot.

EXTERIOR VIEW

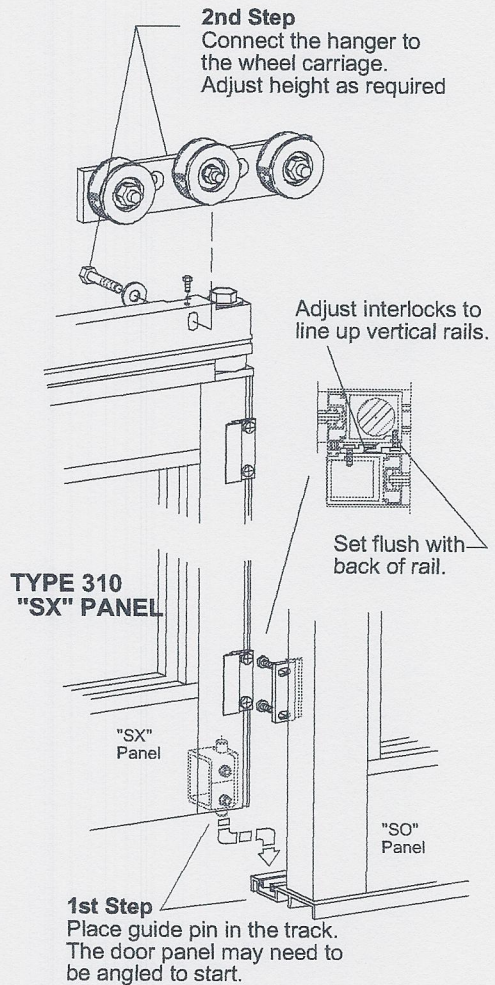
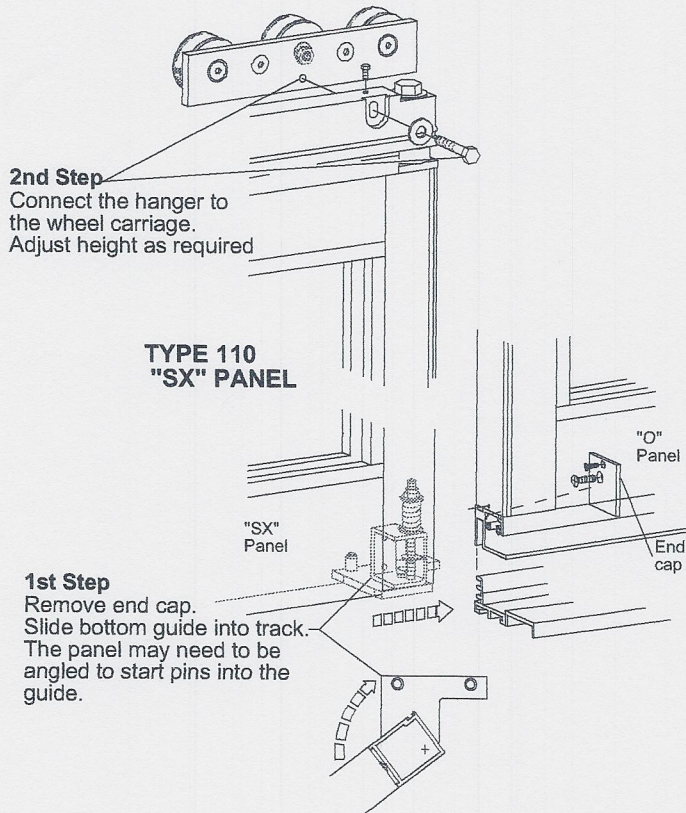
6. INSTALLING SLIDE PANELS

3 types of slide panels are shown 010, 110 & 310. If panels are to be glazed before installation see section 7.



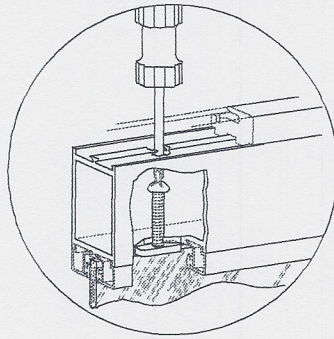
NOTE:
Always loosen height adjustment screw before installing or removing carriage bolts.
Height adjustment screws should not be used to raise or lower the door - only to hold it in place.

Install threshold after all panels are in place.



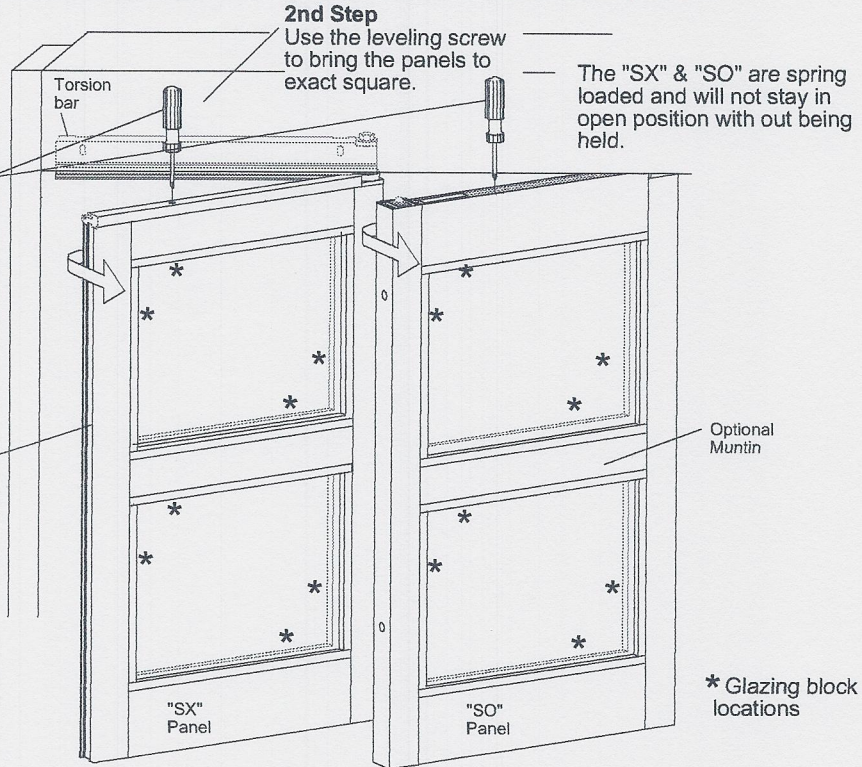
7. TYPICAL GLAZING AND SQUARING (SX-SO single slide shown)

Door panels may be glazed laying down flat or installed in the frame. The latter method is referred to below.



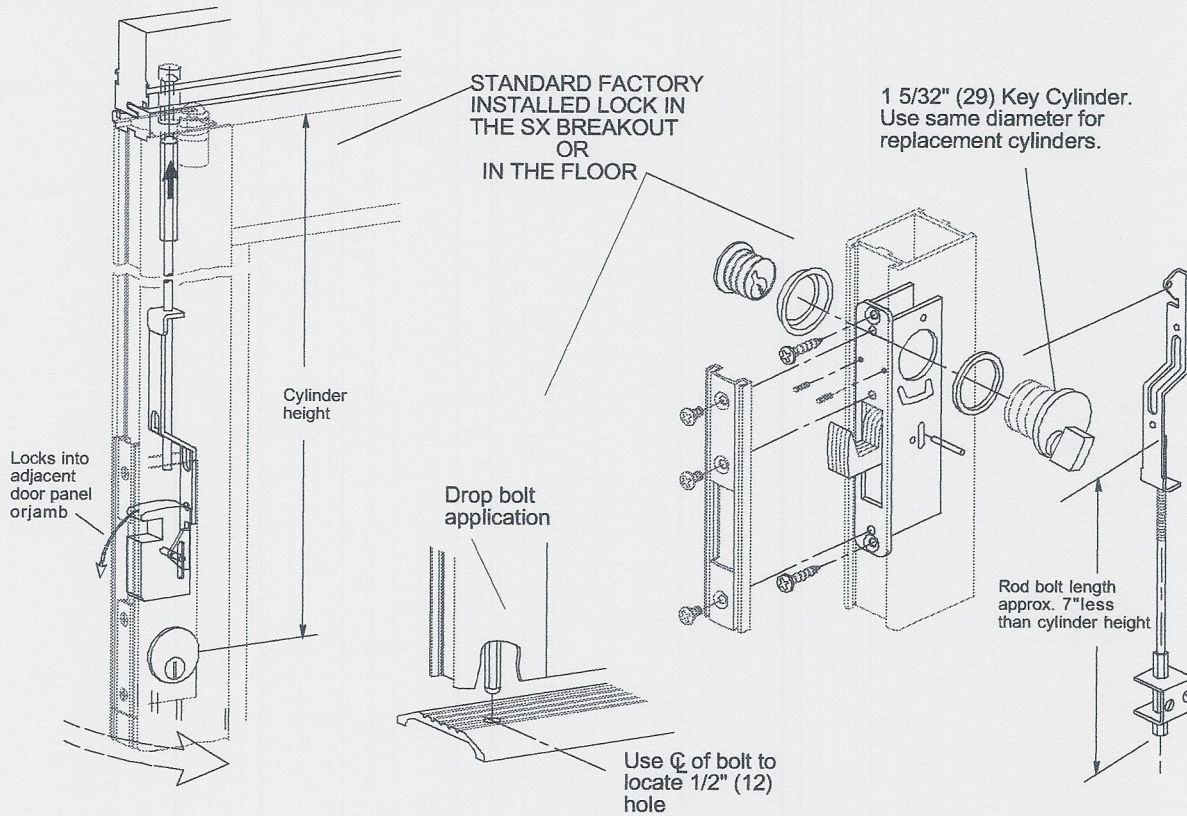
1st Step
Always glaze the "SX" panel with the torsion bar in the broken-out position.

NOTE:
Do not remove glazing blocks from door panels or **glass breakage will occur** when the leveling screw is adjusted.



8. STANDARD LOCKING

A lock cylinder is included with door. UL requires that the inside of the lock be equipped with a thumbturn. Local codes may vary.

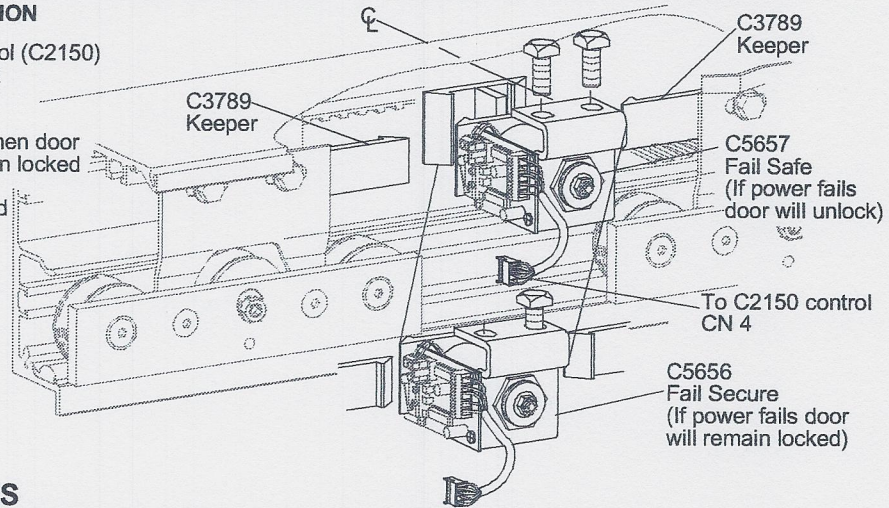


9. AUTOMATIC LOCKING (OPTIONAL)

The Fail Safe and Fail Secure Autolocks will only inhibit the slide action of the door not the "swing" or breakout action. See section 8 for standard locking. Autolocks are installed at the factory. Retrofit units will be supplied with instructions.

GENERAL AUTOLOCK OPERATION

- Open signal is received by control (C2150)
- Unlock signal is sent to Autolock
- Solenoid retracts lockbolt
- Door opens and closes
- Solenoid extends the lockbolt when door is fully closed and the keeper is in locked position
- Door (slide motion only) is locked



10. ACTIVATING DEVICES

- Activating switches must be located where door operation may be observed by the person actuating it.
 - ANSI standard requires a motion detector be placed on each side of the door and be active while the door is open (except the last 6" 150mm of closing). The detector pattern may be reduced to 24"(610) on the control side for one-way traffic.
 - Mount sensors on the door header or above at a height of 7ft (2134) to 8ft (2438) from the floor. Sensitivity and detection area may not meet ANSI standards if detector is placed higher.
 - Walk test the pattern from various angles and speeds.
 - Adjust the sensitivity and pattern of the motion sensor as per ANSI A156.10 See drawing below for pattern and location.
- See instructions supplied with the sensor.
- NOTE: Never decrease the sensitivity or pattern so it will not detect slow moving or cross traffic.**
- The motion detector time delay should be set to a minimum of two seconds cumulative with C2150 control before the door begins to close. Three seconds or more is recommended by Horton Automatics.

11. SAFETY BEAMS

Horton Automatics' sliding doors are sold with dual safety beams as standard equipment. The doors are factory prepped and wired.

1st Step

Drill hole in faceplate for wiring and mount motion sensor with sheet metal screws. No more than 7ft to 8ft above the floor. Drilling template is provided with motion detector. Route wiring to avoid belt.

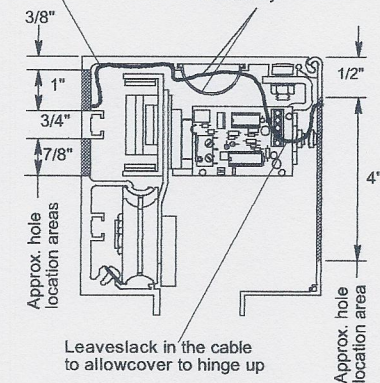
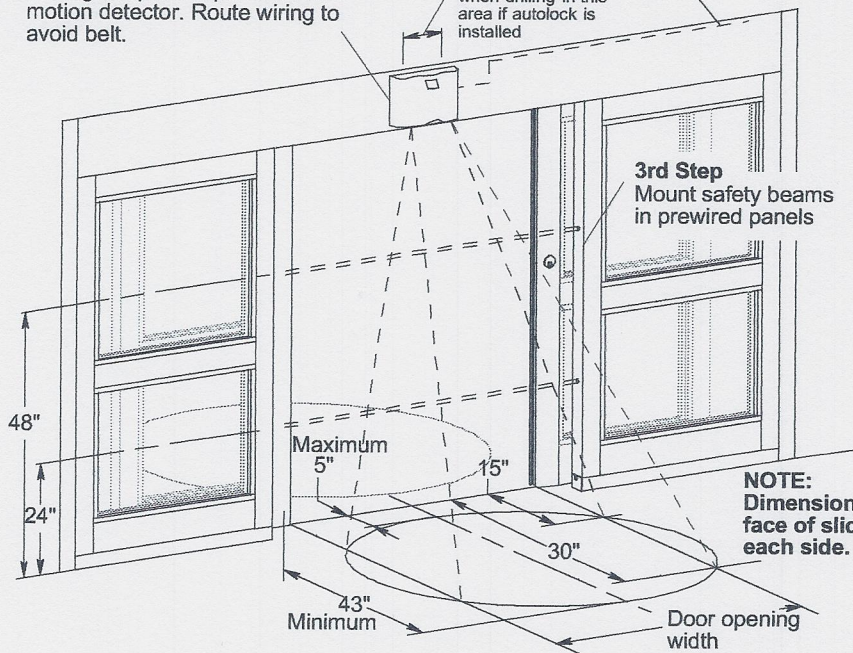
2nd Step

Route wiring through faceplate and wire way to C2150 control

2 9/16" Use caution when drilling in this area if autolock is installed

Support cable to avoid contact with belt.

Penetrate wire way to allow mtec cable to pass through if necessary.



NOTE: Dimensions taken from face of sliding door each side.

Leaveslack in the cable to allow cover to hinge up

12. SAFETY CONSIDERATIONS

To comply with Underwriters' Laboratories Safety Requirements (UL 325), ANSI A156.10 and pedestrian safety, horizontal sliding doors must be adjusted within the following requirements and guidelines.

CLOSING SPEED

- At no time should the door close faster than 1ft per second or close completely in less than 3 seconds for door panels weighing up to and including 160 lbs 73kg.

CLOSING FORCE

- The force required to stop the door should not exceed 30 foot pounds (133N).

REVERSING

- The reversing circuit of the C2150 must be adjusted to reverse when a maximum force of 28 foot pounds (38N) is exerted to prevent the door from closing.

TIME DELAY

- The time before closing should never be less than 2 seconds. 3 seconds or more (after activating zone is clear) is recommended by Horton Automatics.

For set-up and trouble-shooting

SEE HORTON PUBLICATION H202 FIELD QUICK START INSTRUCTIONS.

NOTE: After adjustments are completed be sure the faceplate is secured with screws into the support brackets.

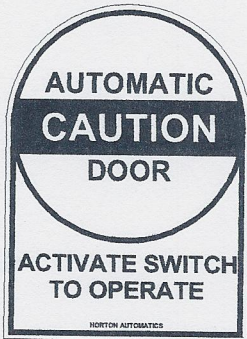
THRESHOLD PROTECTION

- All sliding doors should be installed with a minimum of two presence detectors in the threshold area. Horton Automatics sliding doors are supplied with dual safety beams.
- Motion detectors must be set up as per section 10 on previous page.

13. DECAL APPLICATION

C7280

Place on entry side of slide panels on doors using pushbutton entry To meet knowing act ANSI standard.



C1630-2

For 2-way traffic place one on each sliding panel. For 1-way traffic use C1631-3 (sent with unit)



C1631-3

For 1-way traffic place the side shown toward control side of door.



C1690-1

Daily safety check. Place near on / off switch at eye level.

C1634

Place on sidelites. (sent with unit)



Locate decals on the center line of each panel at elevation shown.

58" (1473)
± 5" (127)

48" (1219)

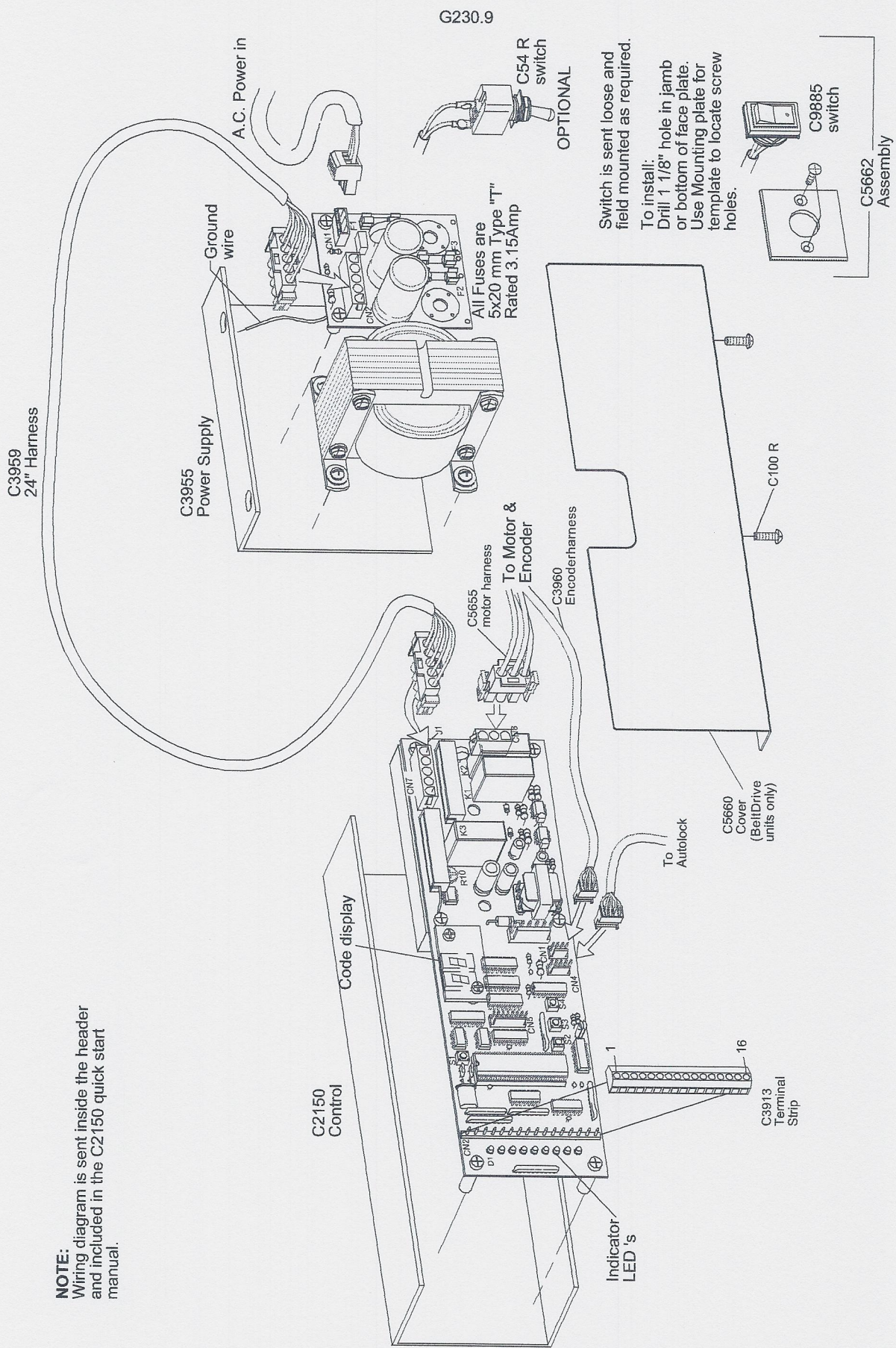


C1682

Place on exit side of breakout panels. (sent with unit)

IN EMERGENCY PUSH TO OPEN

NOTE:
Wiring diagram is sent inside the header and included in the C2150 quick start manual.



15. C2150 MICROPROCESSOR CONTROL



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