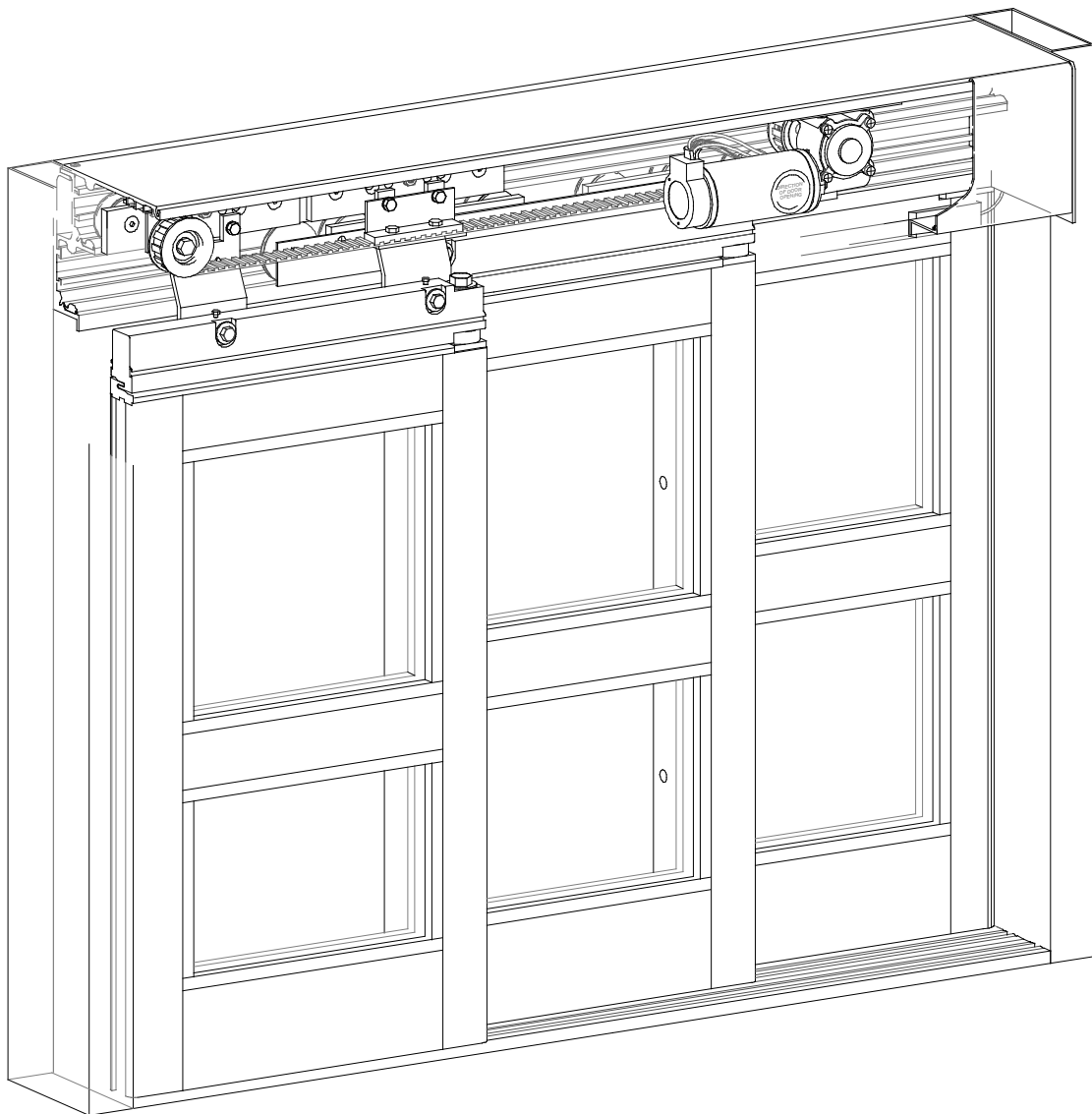


Series 2003T

Belt Drive Telescoping Slide Door

INSTALLATION INSTRUCTIONS

To be used with H210 C2150 Ver.10 Control Setup Instructions



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SERIES 2003T ELECTRIC SLIDING TELESCOPING DOOR INSTALLATION INSTRUCTIONS

1. INSTRUCTIONS TO INSTALLER

- This door is to be installed by a trained and experienced installer with knowledge of local codes and ANSI A156.10 standards for power operated doors.
- To ensure safe and proper operation, the door must be installed and adjusted to conform to Horton Automatics recommendations, all code requirements and ANSI A156.10.
- If there are any questions about these instructions, call Horton Automatics Technical Assistance.

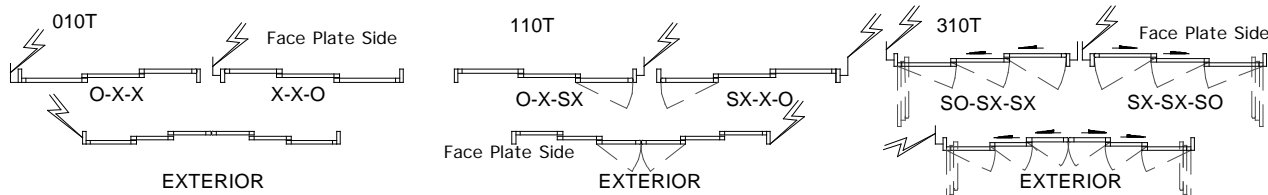
INFORMATION TO BE PROVIDED BY THE DISTRIBUTOR TO THE OWNER

- After installation instruct the owner on the safe operation of the door.
- Present the Owners Manual M300 and explain how to perform the daily safety check.
- Show the location of power on / off switch.
- Necessary warnings not covered in these general instructions.
- Date equipment shipped from Horton Automatics.
- Date equipment placed in service.
- Horton Automatics' invoice number for warranty reference.
- Equipment type.
- Accessories included.
- Phone number to call regarding problems or request for service.
- Give caution** to owner: if a potentially hazardous situation is suspected, the door should be taken out of automatic service until a professional inspection is made and the problem is corrected.

2. GENERAL REQUIREMENTS

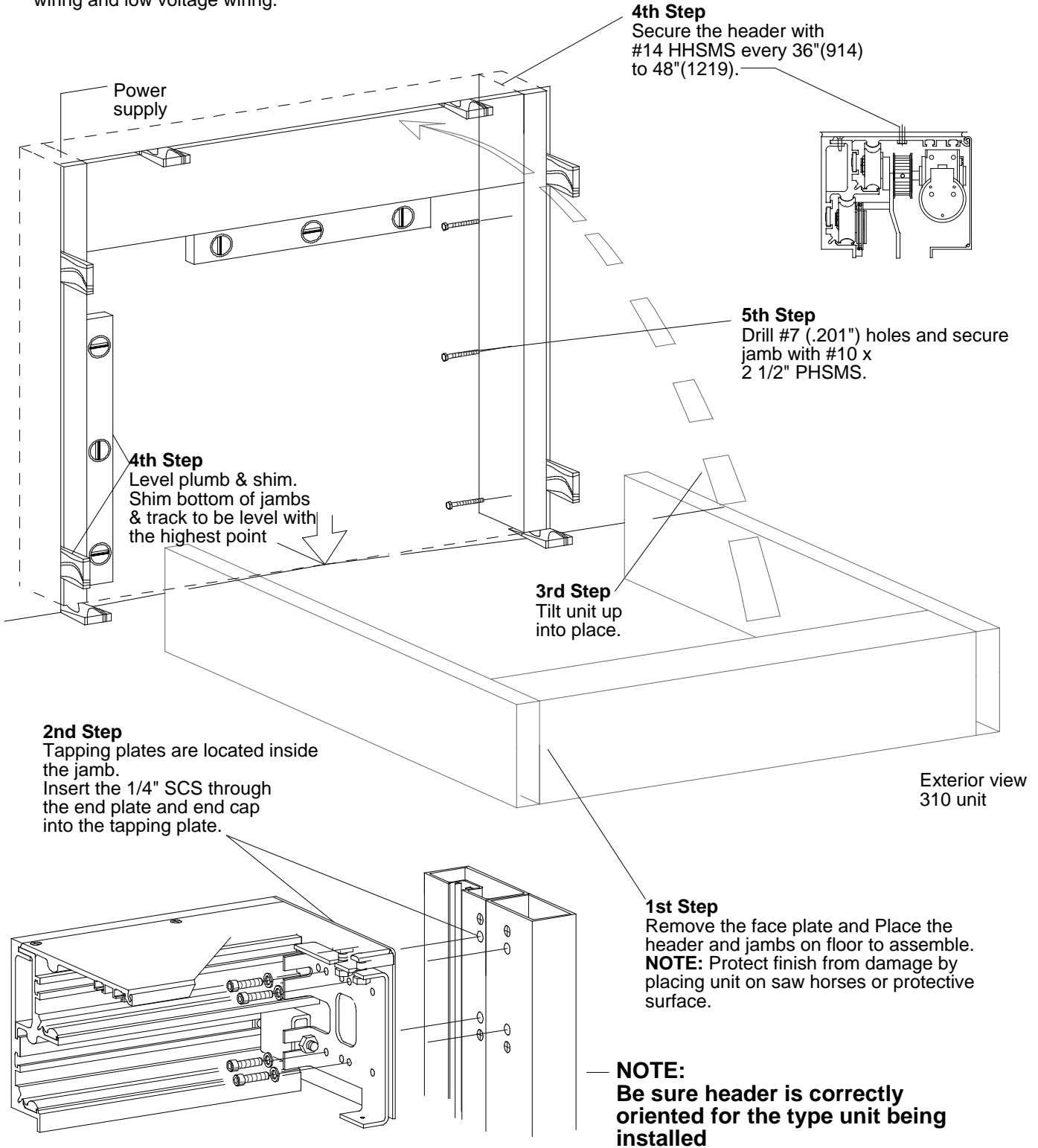
- Power: 120 VAC, 60Hz, 15 Amp service (in conduit) to the inside of the header of each unit. See H202
- Non North American voltages can be 240 VAC, if so be sure the operator has a 240VAC power supply.
- Power may be brought in through the top of the jamb on perimeter mount units or in through the back of surface mount units.
- For remote switch locations, routing of low voltage class II wiring (in conduit) to the operator controls will be required.
- Remote switch locations should be predetermined and wired before installation begins.
- Opening size should be 1/4" taller and 1/2" wider than the unit / frame.
- The opening must be plumb and level, including the threshold area.
- Door panels may be glazed before or after installation.

POWER INPUT LOCATIONS



3. INSTALLING FRAME

If a recessed threshold is required, this should be done prior to frame installation. Take care that the frame is not racked. Shims 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.



2.210d

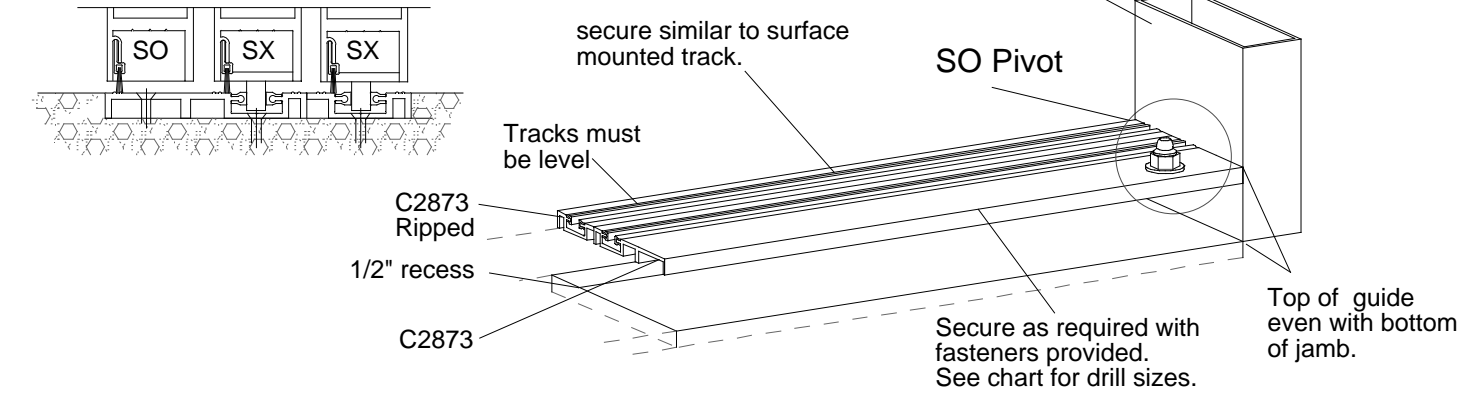
FASTENER CHART

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 & #1/4-20 MS	#F(.257) & #14 c'sink	3/16(.187)	#7(.149)	1/4-20	Drill 5/16"(.312) & use C1424 blue anchor

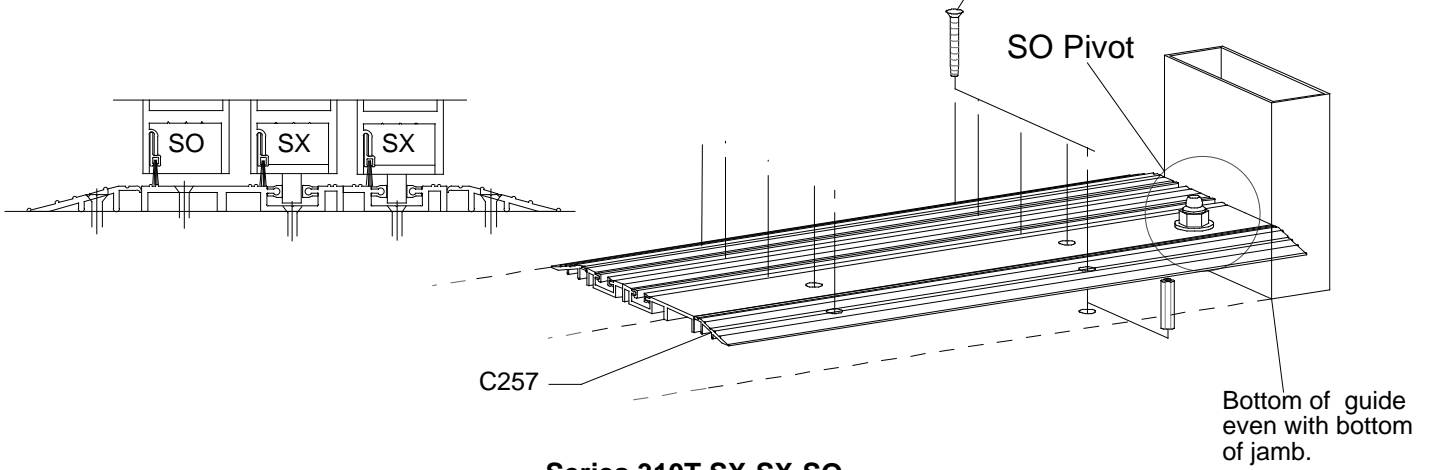
4. INSTALLING FLOOR GUIDES

Bottom guides will vary with the unit type. The 3 basic types are shown below.

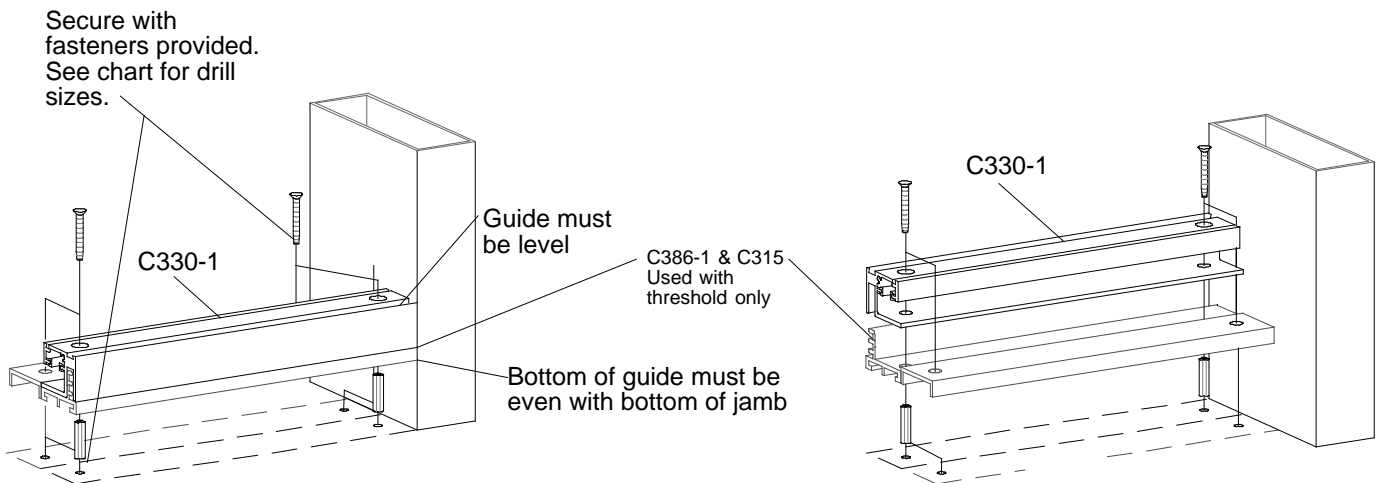
NOTE:
Jams are not recessed



Series 310T SX-SX-SO Recessed



Series 310T SX-SX-SO Surface mounted



Series 010 X-X-O

Series 110 SX-X-O

NOTE:
ALL VIEWED FROM EXTERIOR SIDE.

5. INSTALLING PANELS (SX-SX-SO)

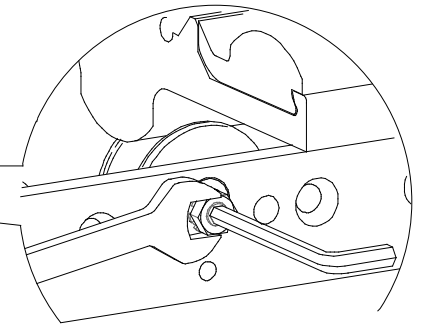
NOTE:

The belt and cable connection are factory installed - but are not shown for clarity. (see section 11 for connection details)

2nd Step

Secure the door panels to the wheel carriages

WHEEL CARRIAGE ANTI-RISE MUST BE ADJUSTED AFTER THE DOOR PANELS ARE INSTALLED

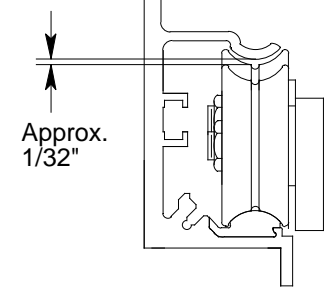


Anti-rise wheel adjustment

Loosen 5/16" nut. Rotate allen wrench to raise or lower anti-rise wheel to proper position. Re-tighten nut.

NOTE:

Antirise wheel should **NOT** contact the upper track at any point of travel



Approx. 1/32"

3rd Step

Adjust door height as required

INSTALL FIRST

INSTALL SECOND

NOTE: Slow door may be broken out to allow the interlocks to engage.

1st Step

Place the bottom guides in the track.

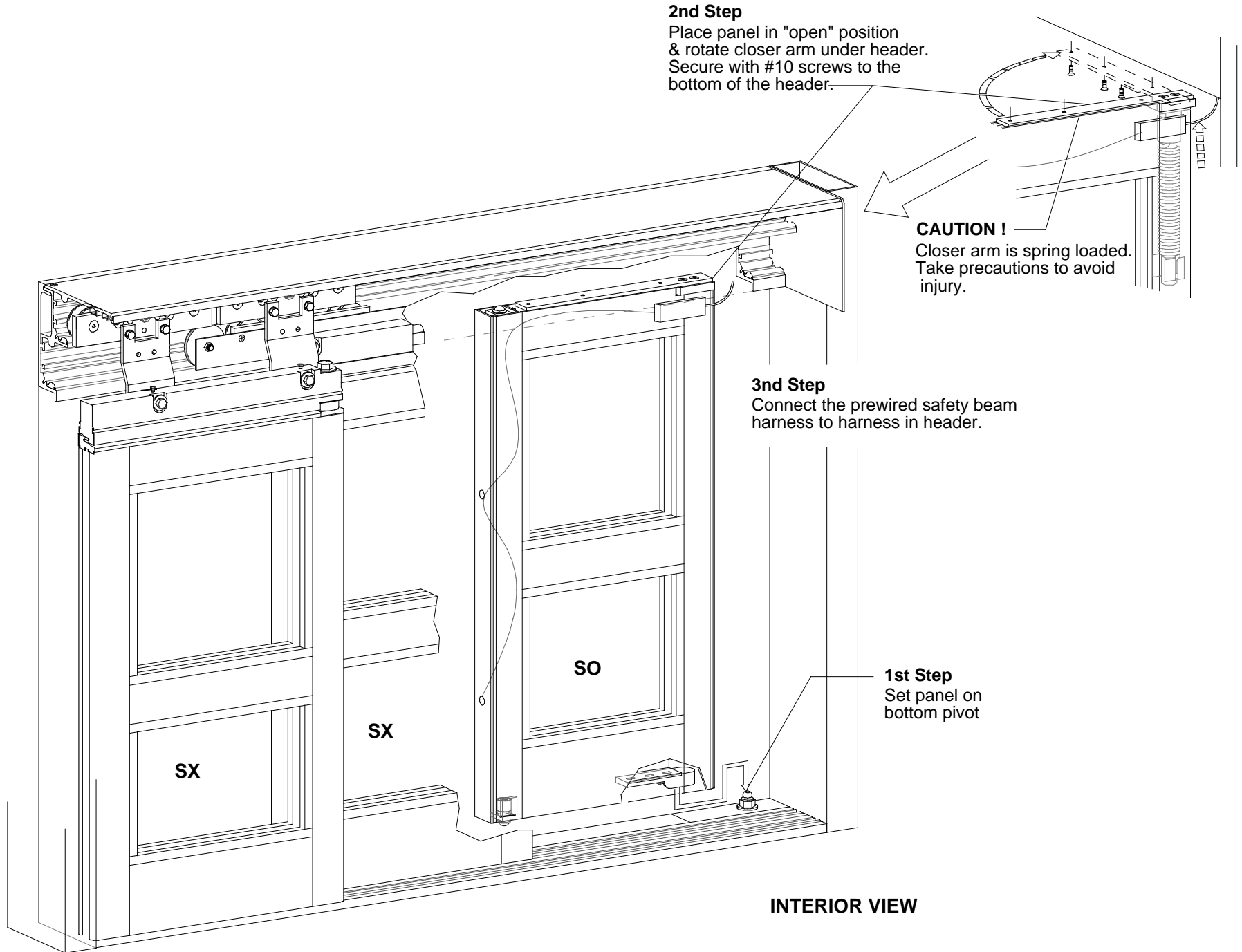
INTERIOR VIEW

SX

SX

G230T.4

6. INSTALLING PANELS (SX-SX-SO)



G203T.5

7. INSTALLING PANELS (SX-X-O)

NOTE:

The belt and cable connection are factory installed - but are not shown for clarity. (see section 11 for connection details)

4th Step

Attach the SX panel to the wheel carriages as shown.

2nd Step

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

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.

7th Step

Attach the X panel to the wheel carriages.

9th Step

Adjust the door height as required

8th Step

Place end cap on end of track.

6th Step

Slide the guide pins into the track.

5th Step

Position the X panel on the SX guide pins.

010 EXTERIOR
110 INTERIOR

"O" Panel

C330-1

Security stud

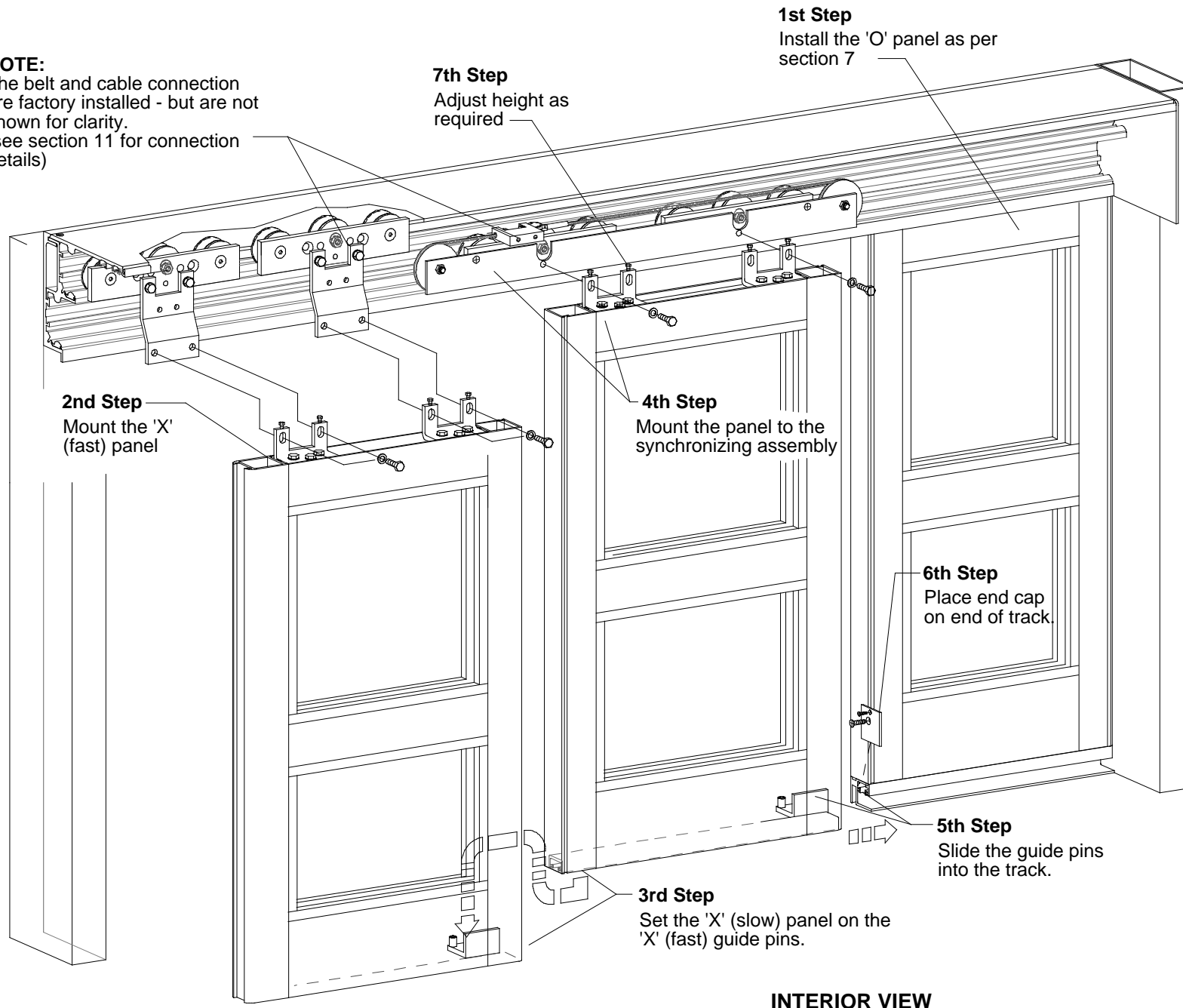
1st Step

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

EXTERIOR VIEW

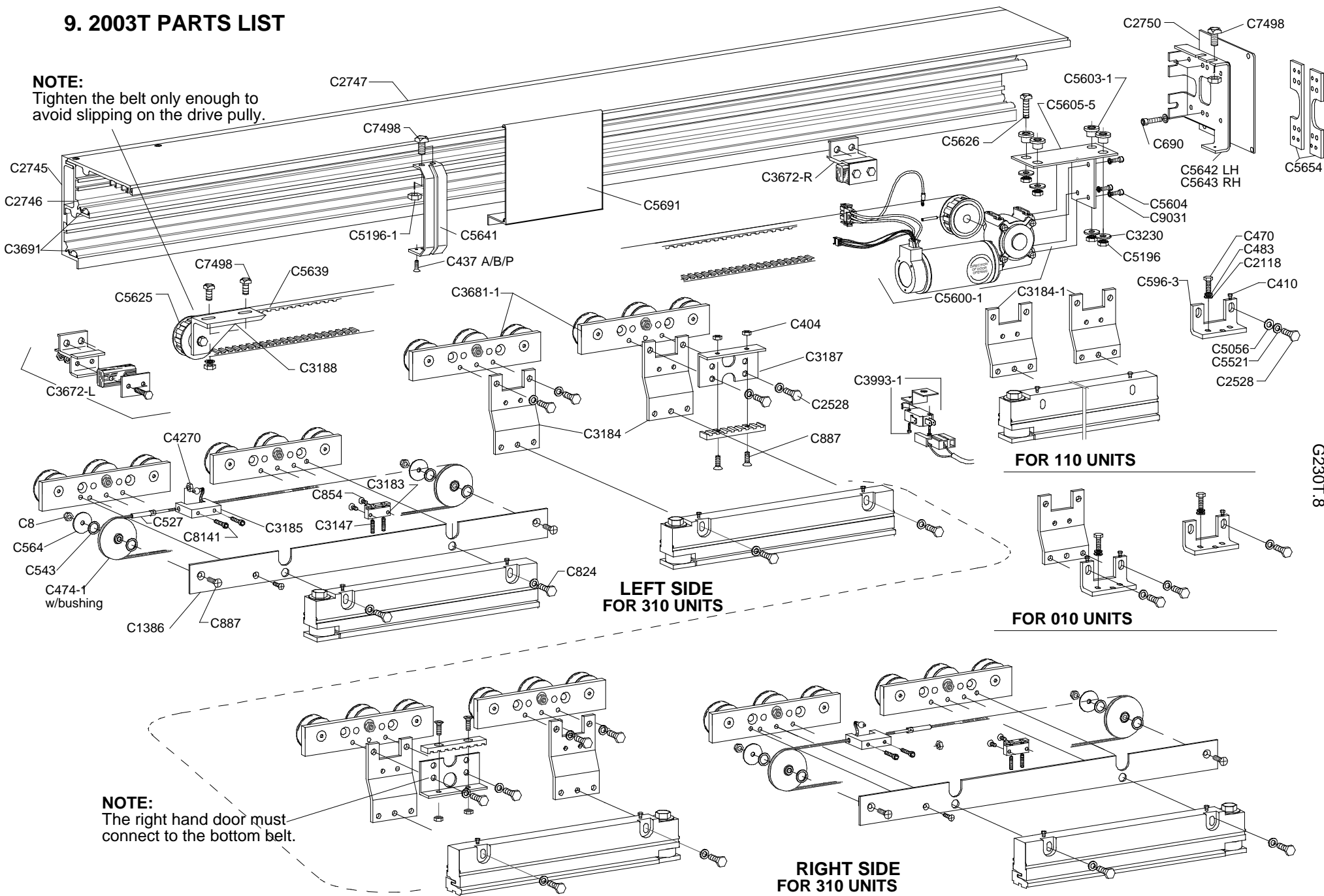
8. INSTALLING PANELS (X-X-O)

NOTE:
The belt and cable connection are factory installed - but are not shown for clarity.
(see section 11 for connection details)



9. 2003T PARTS LIST

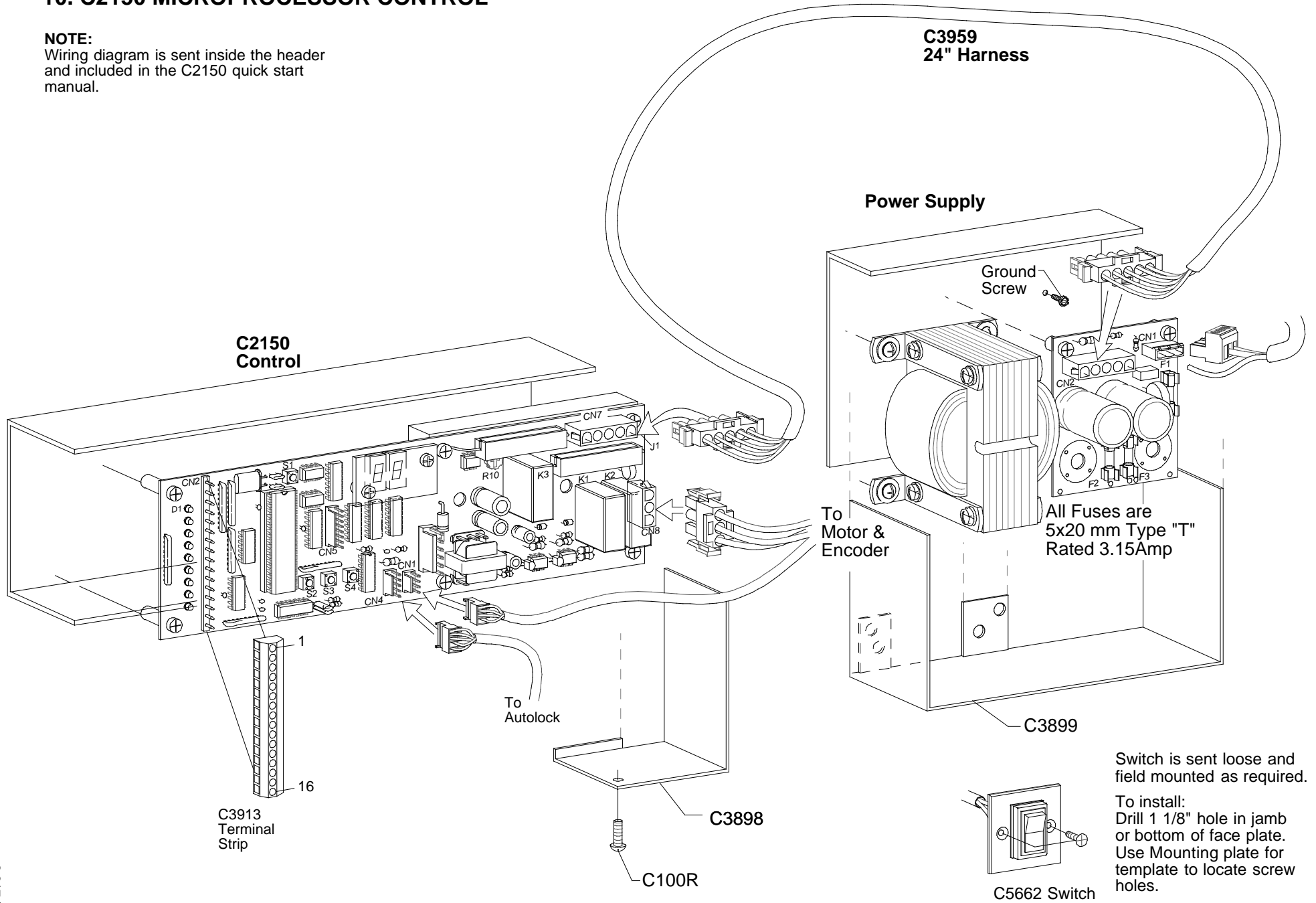
NOTE:
Tighten the belt only enough to avoid slipping on the drive pulley.



G230T.8

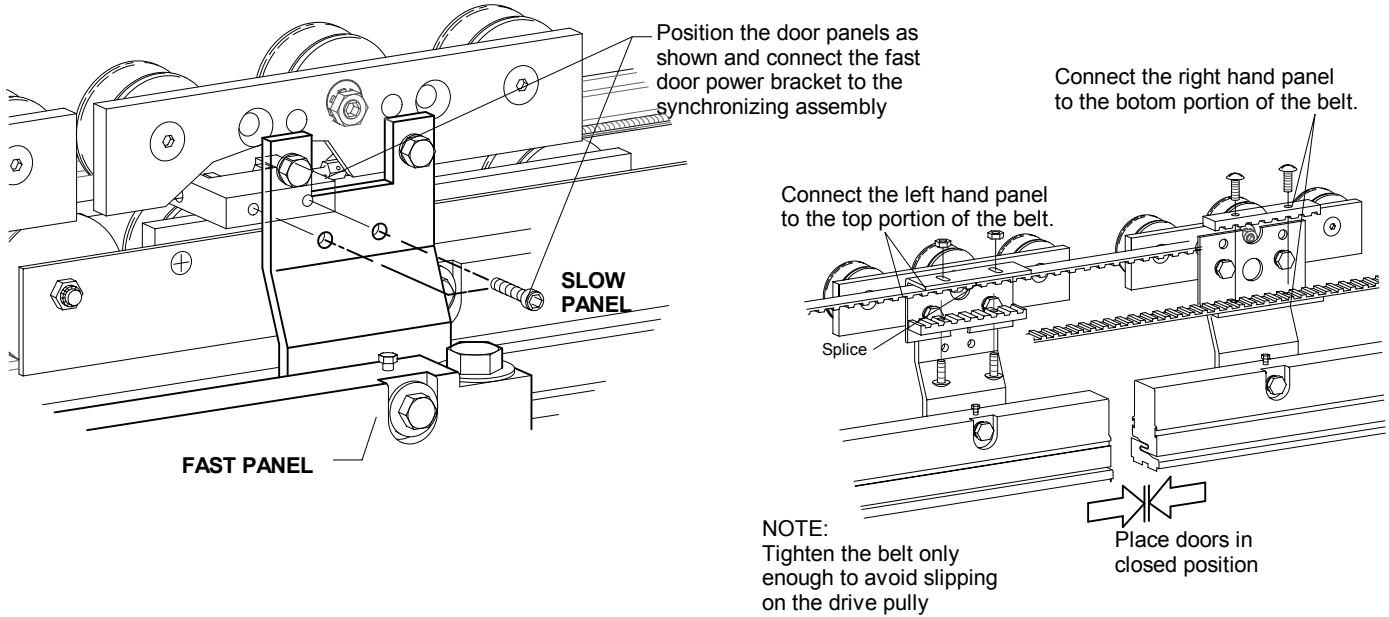
10. C2150 MICROPROCESSOR CONTROL

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



G230T.9

11. Belt and cable connection



12. 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 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.

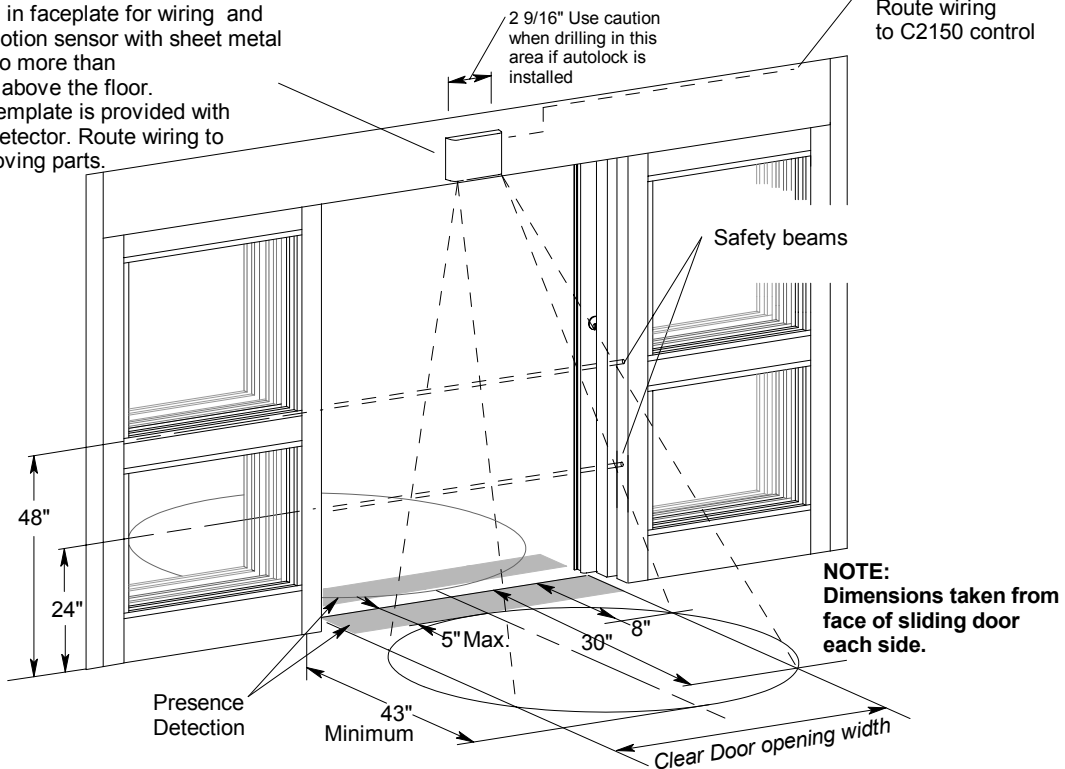
13. MOTION SENSOR PREP

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 moving parts.

2nd Step

Route wiring to C2150 control



14. SAFETY CONSIDERATIONS

G230T.11

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 can 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

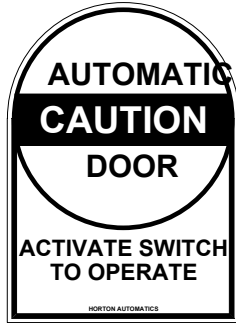
- All sliding doors should be installed with presence detection on each side of sliding doors in addition to dual safety beams.

- Motion detectors must be set up as per section 10 on previous page.

15. 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.

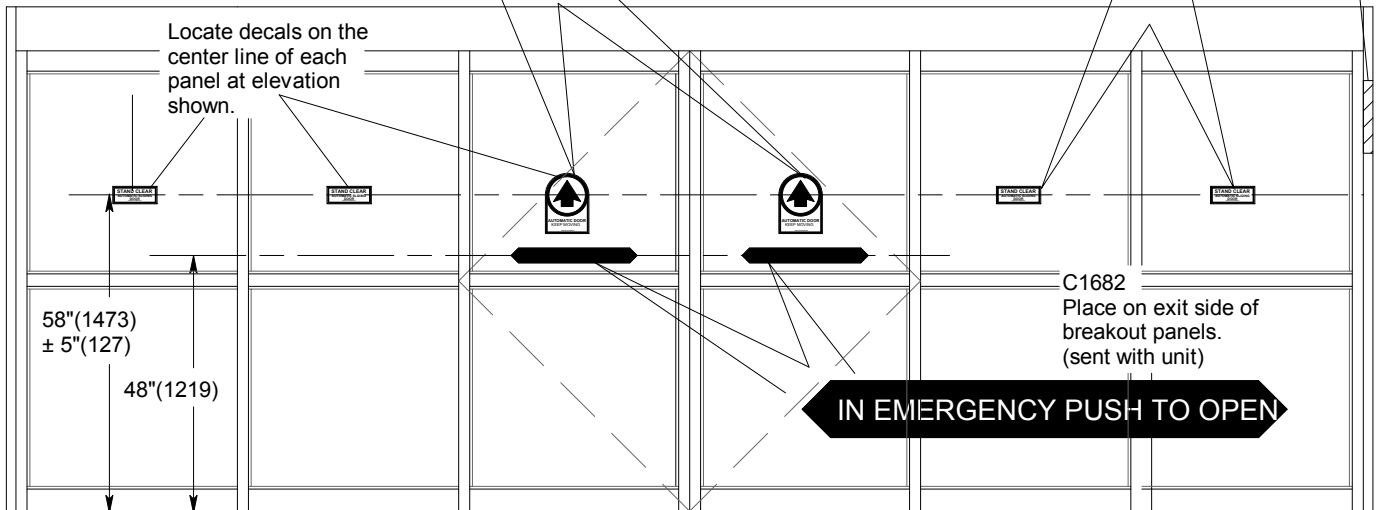


C1690-1

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

C1634

Place on sidelites. (sent with unit)



2.219d



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Horton Automatics reserves the right to improve the product and change its specifications without notice.