RITE-HITE®
ALWAYS LOOKING AHEAD

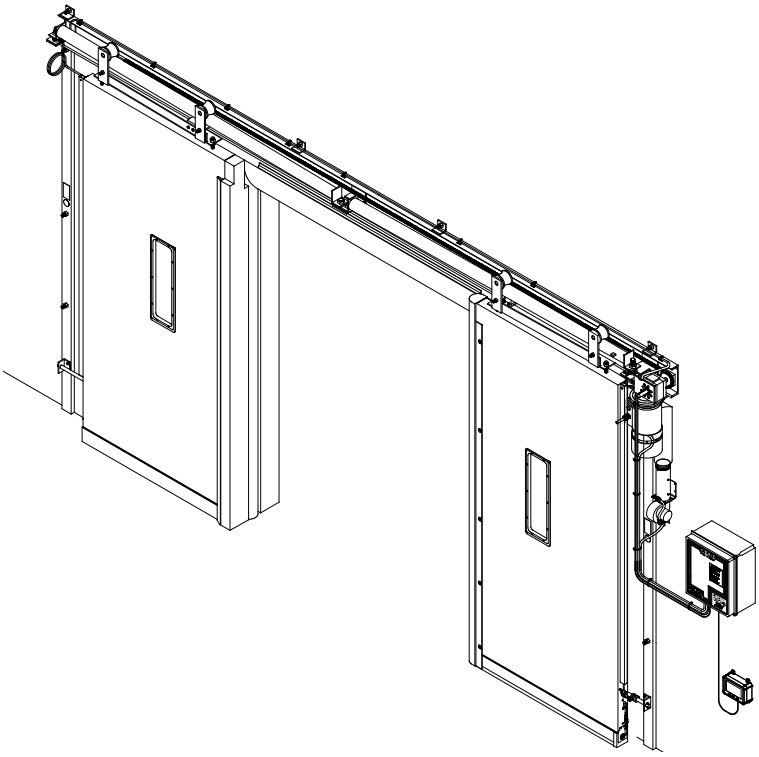
BARRIER® GLIDER

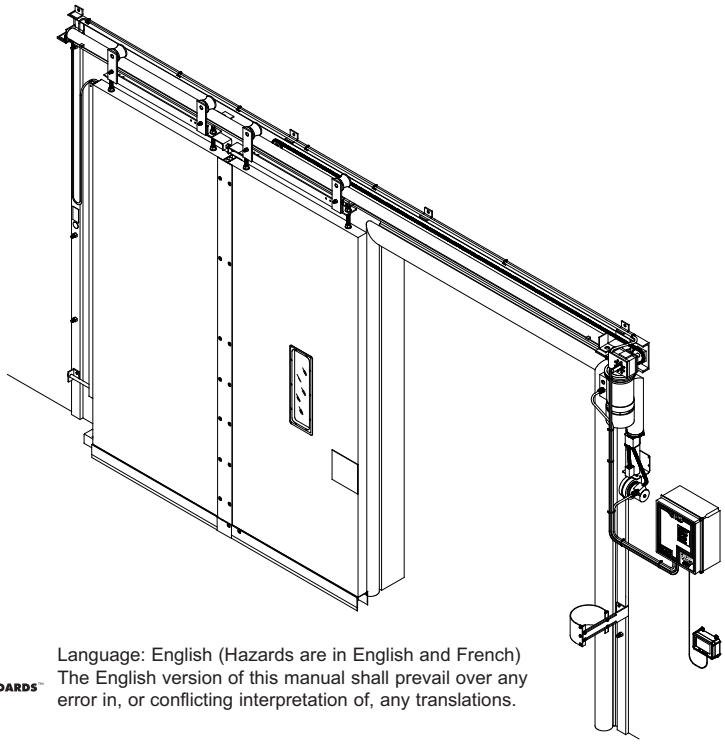
COLD STORAGE DOOR

MODEL 7100

Installation/Owner's Manual

This manual covers units ordered 11-6-2017 to date for Encoder, i-Comm, GUI change.
For doors ordered prior to 11-6-2017 refer to 7100N.





ISO AMERICAN GLOBAL STANDARDS 9001 CERTIFIED

Language: English (Hazards are in English and French)
The English version of this manual shall prevail over any error in, or conflicting interpretation of, any translations.

Publication: **AMEN00027 2017-11-06**

TABLE OF CONTENTS

SPECIAL FEATURES

- i-COMM™ Universal Controller
- GUI™ controls (reduces need to open control box)
- Frequency drive (VFD) controls speed
- Fast smooth opening, maximum speed of 80 in/sec.
- Motor voltage 3 phase options: 60 Hertz: 208, 230, 400V (50 Hz), 460, 575
- Energy efficient high R-value flexible panels
- Thermal air sealing system
- Impactable panel retention system
- Heavy-duty industrial materials

NOTICE TO END USER

Our mission is to "Improve Industrial Safety, Security and Productivity Worldwide Through Quality and Innovation."

Thank you for purchasing the BARRIER® GLIDER door from RITE-HITE DOORS, INC. The BARRIER® GLIDER door is designed to be a fast, smooth opening, low maintenance door that provides superior environmental separation while reducing passage time and temperature loss

The information contained in this manual will allow you to operate and maintain the door in a manner which will insure maximum life and trouble free operation.
This manual should be thoroughly read and understood before beginning the installation, operation or servicing of this door.
Complete Final Checklist prior to leaving site

When ordering parts through Aftermarket or Warranty department, always include your door serial or RHC# to be sure that you receive the correct parts. The RHC and serial # for your door is located on a label on the side of the control box, ***Figure 21.*** The actual parts used on your door may be different than shown in this manual due to special engineering or product improvement.

Your local RITE-HITE DOORS, INC. Representative provides a Planned Maintenance Program (P.M.P.) which can be fitted to your specific operation. Call your local representative or RITE-HITE DOORS, INC. at 1-414-355-2600 or toll free at 1-800-456-0600. If any procedures for the installation, operation or maintenance of the TRAKLINE have been left out of this manual or are not complete, contact RITE-HITE DOORS, INC. Technical Support at 1-563-589-2722.

INSTALLATION TOOLS REQUIRED

Fork and scissors lift
Hydro level
10ft [3M] Step ladder
Cordless drill
25ft [8M] Tape measure
Wire strippers
6ft [2M] Carpenters level
Utility knife
(2) 15/16in [24mm] open end wrenches
Hammer
1/2in [13mm] Masonry and/or drill bit for thru bolting
7/16in [11], 1/2in [13], 9/16in [14] open end and/or socket wrench
11/16in x 12in [17mm x 305mm] drill bit for thru bolting
Straight screwdriver (small 1/8in [3mm] spade)
Hardware for mounting the header, support posts, retention rod, blower and perimeter seals to wall are provided. Caulk for perimeter seals is not provided.

RECOMMENDED PARTS

Retention Cord/Spring	53700460 (3)
Kit, 7100, Encoder	53701004 (1)
Panel Blower/Heater	53700647 (1)
Kit, Controller i-COMM 3	53701043 (1)
Fuse, 1 Amp	51000002 (2)
Fuse, 3.5 Amp	51000008 (2)
Fuse, 10 Amp	51000033 (3)
Fuse, 6 Amp	51000055 (2)
Fuse, 9 Amp	51000064 (2)
GUI	55150353 (1)

SAFETY WARNINGS

SAFETY IDENTIFICATION

DANGER

Danger indicates the presence of a hazard that *will cause severe personal injury, death.*

WARNING

Warning indicates the presence of a hazard that *can cause severe personal injury, death.*

CAUTION

Caution indicates the presence of a hazard that *will or can cause minor personal injury, death.*

NOTICE

Notice communicates installation, operation, or maintenance information that is safety related but not hazard related and may cause equipment or property damage.

NOTE:

A Note is used to inform you of important installation, operation or maintenance information.

GENERAL SAFETY NOTICES

DANGER

When working with electrical or electronic controls, make sure that the power source has been locked out and tagged according to OSHA regulations and approved local electrical codes.

DANGER

A qualified electrician should install the wiring in accordance with local and national electrical codes.
Use lockout and tagout procedures to avoid injury.

DANGER

To reduce risk of injury or death, an earth ground connection MUST BE made to the green/yellow control box ground terminal. If metal conduit is used as the ground connector, an N.E.C. approved ground bushing and green/yellow wire MUST BE properly attached to the conduit for connection to the ground terminal.

WARNING

Make sure to barricade the door opening on both sides to prevent unauthorized use until the door has been completely installed.

NOTICE

Damage or debris may fall into electrical components causing failure or severe equipment damage, when drilling holes in the box.
DO NOT turn control box upside down or go too deeply into the box.

NOTICE

In freezer and cooler applications where a conduit passes from a warm to cold temperature zone, the conduit must be plugged with epoxy. This will help prevent condensation from forming in the conduit. For more information, see Section 300-7a of the National Electric Code.

NOTICE

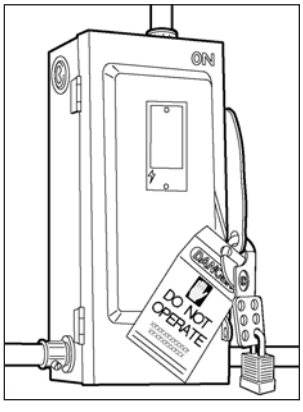
Do not drill holes on top of control box to run conduit, as dust particles and moisture may cause damage to electrical components. The safest location is at the bottom. Failure to do so will void warranty.

LOCKOUT/TAGOUT PROCEDURES

The Occupational Safety and Health Administration requires that, in addition to posting safety warnings and barricading the work area, the power supply has been locked in the OFF position or disconnected. It is mandatory that an approved lockout device is utilized. An example of a lockout device is illustrated. The proper lockout procedure requires that the person responsible for the repairs is the only person who has the ability to remove the lockout device.

In addition to the lockout device, it is also a requirement to tag the power control in a manner that will clearly note that repairs are under way and state who is responsible for the lockout condition. Tagout devices have to be constructed and printed so that exposure to weather conditions or wet and damp locations will not cause the tag to deteriorate or become unreadable.

RITE-HITE Corporation does not recommend any particular lockout device, but recommends the utilization of an OSHA approved device (refer to OSHA regulation 1910.147). RITE-HITE Corporation also recommends the review and implementation of an entire safety program for the Control of Hazardous Energy (Lockout/Tagout). These regulations are available through OSHA publication 3120.



PRELIMINARY INSTALLATION CHECKS

NOTE:

Check for electrical prints included in the parts or control box. They supersede any prints in this manual.

Refer to GUI / i-COMM 3 Touch Screen Control manual for installation.

Refer to Optional LED Countdown drawings for installation.

Refer to Optional LED Preannounce drawings for installation.

1. Alternate measurements in brackets are in [metric].
2. Match control box serial number with track serial number.
3. Make sure you are working at the correct location and have any required work permits.
4. Inspect installation site to make sure area is free of overhead obstructions (sprinkler pipes, HVAC systems, electrical supply lines, etc.) that might interfere with the lifting of the header assembly during installation.
5. Detour material handling equipment (fork lift trucks, etc.) during the installation of the door.
6. Make sure that the electrician is ready to bring the correct electrical power supply to the door control box.
7. Make sure that the electrical power can be shut off without interfering with other plant operations.
8. Move the entire crate of the door components as close to the door opening as possible.
9. When removing the panels from the crates. Be sure not to lean panels such that they crease.
10. If multiple doors are being installed, it is imperative to install the proper control box with the matching door unit. The serial # for your door is on a label located on the side of the control box and lower track, ***page 22.***
11. Remove header from the crate by removing the front and motor side of the crate, sliding the motor off the edge of the crate and standing up. There will be a block under the C-Channel to keep the motor off the floor. This will allow a fork lift to pick up the header using the header lifting tubes.
10. Remove plastic rivets and keep in a warm place.
11. To verify proper installation, use "Final Checklist" on ***page 29.***
12. Install Activation & Optional equipment after verifying door operation.

DOOR JAMB

DOOR JAMB

1. Measure door opening width at the top (A) and floor (B).
2. Measure door opening height at left side (C) and right side (D).
3. Dimensions from steps 1-2 should be ± 1/2in [13mm] of the dimensions listed on the serial number label. If the measurements do not agree, STOP! Contact your Rite-Hite representative.
4. Surface MUST be flat, smooth and true with opposite side (E).
5. Using a 6ft [2M] carpenter's level (F), verify that the door jambs and header are plumb and perpendicular.
6. Using a laser level (G), place a mark where the laser is sighted on each side of the jamb to determine if the floor is level. Measure both sides from floor to the mark. If floor is not level to ± 1/8in [3mm], shim under the lower track that (H) that is the larger measurement.
7. For space clearance requirements, refer to Architectural Drawings, ***Pages 50 - 54,*** or call your Rite-Hite Representative.
8. Measure between the jamb at the top of the opening and at the floor and divide this measurement in half and mark the centerline on the wall and on the floor. Drop a plumb bob from the mark at the top of the jamb and place a mark on the floor. The dimension should be within 1/8in [3mm], if not place a mark half way between these two marks.

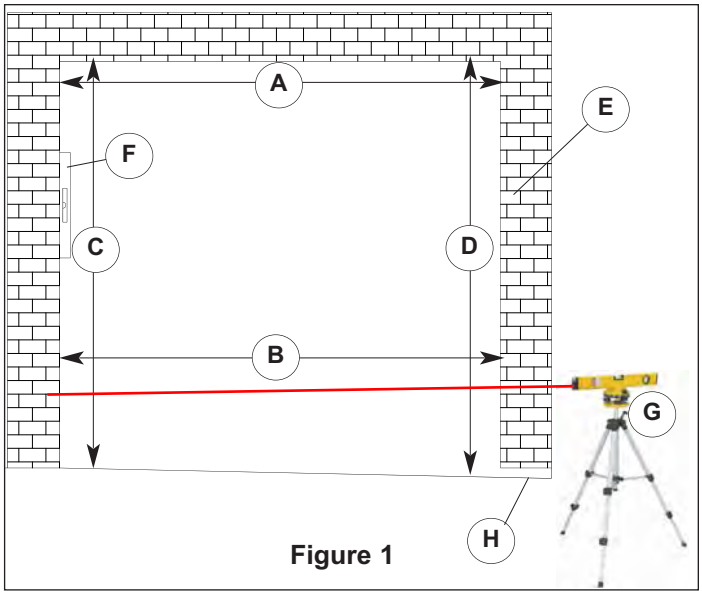


Figure 1

NOTICE

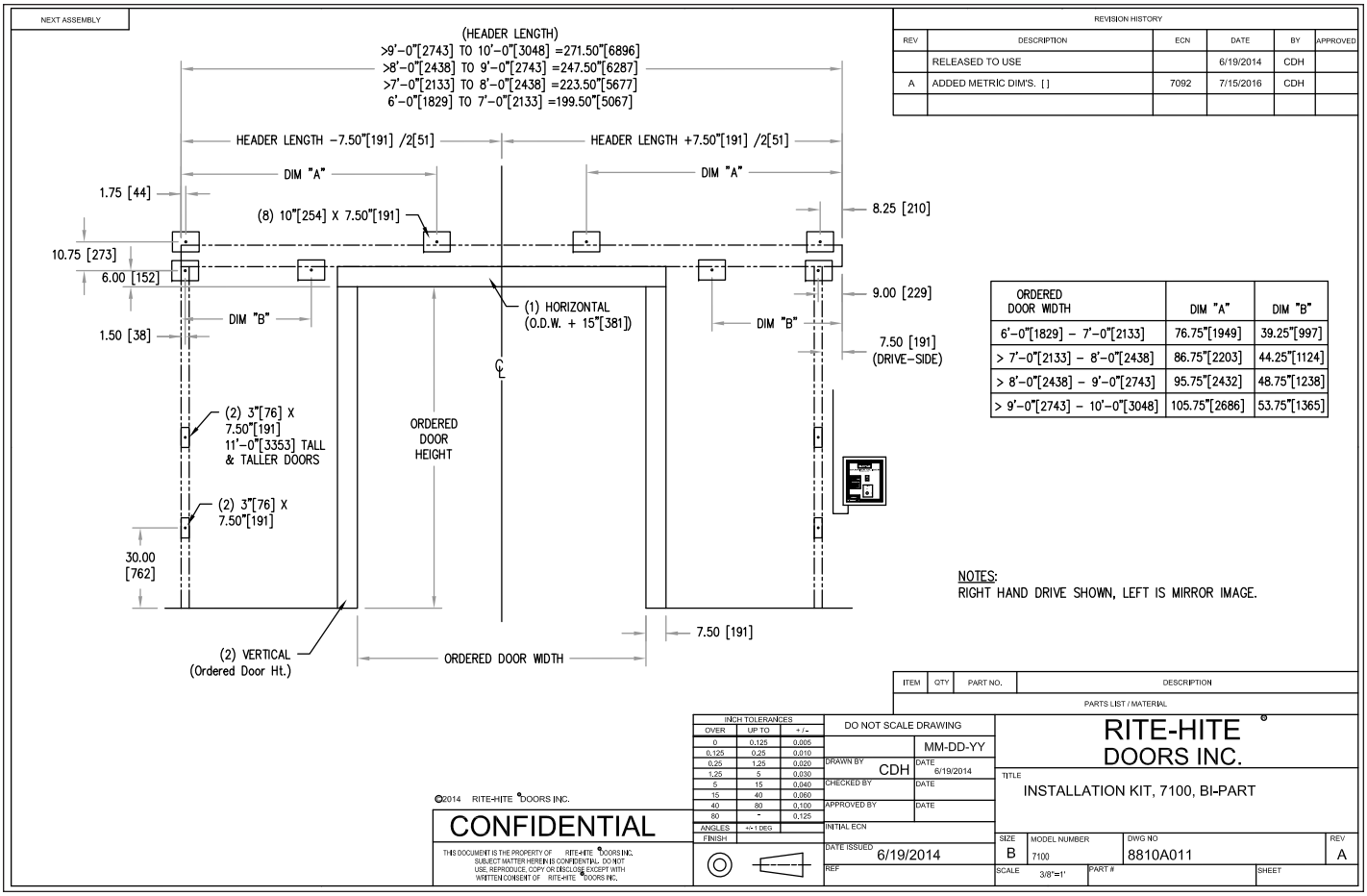
It is HIGHLY recommended to thru-bolt the header with the all threaded rods provided as this is the main support for the door.

POLY LUMBER

POLY LUMBER

1. Place vertical and horizonal poly Lumber pieces per drawing specifications on ***Page 7.***
2. Caulk behind poly lumber that surrounds the opening.
3. Place header poly lumber tab behind pre-drilled mounting hole.
4. Install support post poly lumber tab behind pre-drilled mounting hole after header is in place.

POLY LUMBER



ORDERED DOOR WIDTH	DIM "A"	DIM "B"
6'-0"[1829] – 7'-0"[2133]	76.75"[1949]	39.25"[997]
> 7'-0"[2133] – 8'-0"[2438]	86.75"[2203]	44.25"[1124]
> 8'-0"[2438] – 9'-0"[2743]	95.75"[2432]	48.75"[1238]
> 9'-0"[2743] – 10'-0"[3048]	105.75"[2686]	53.75"[1365]

NOTES:
RIGHT HAND DRIVE SHOWN, LEFT IS MIRROR IMAGE.

REVISION HISTORY					
REV	DESCRIPTION	ECN	DATE	BY	APPROVED
	RELEASED TO USE		6/19/2014	CDH	
A	ADDED METRIC DIM'S. [ ]	7092	7/15/2016	CDH	

ITEM	QTY	PART NO.	DESCRIPTION

PARTS LIST / MATERIAL

INCH TOLERANCES		
OVER	UP TO	+/-
0	0.125	0.005
0.125	0.25	0.010
0.25	1.25	0.020
1.25	5	0.030
5	15	0.040
15	40	0.060
40	80	0.100
80	-	0.125
ANGLES	+/- 1 DEG	
FINISH		

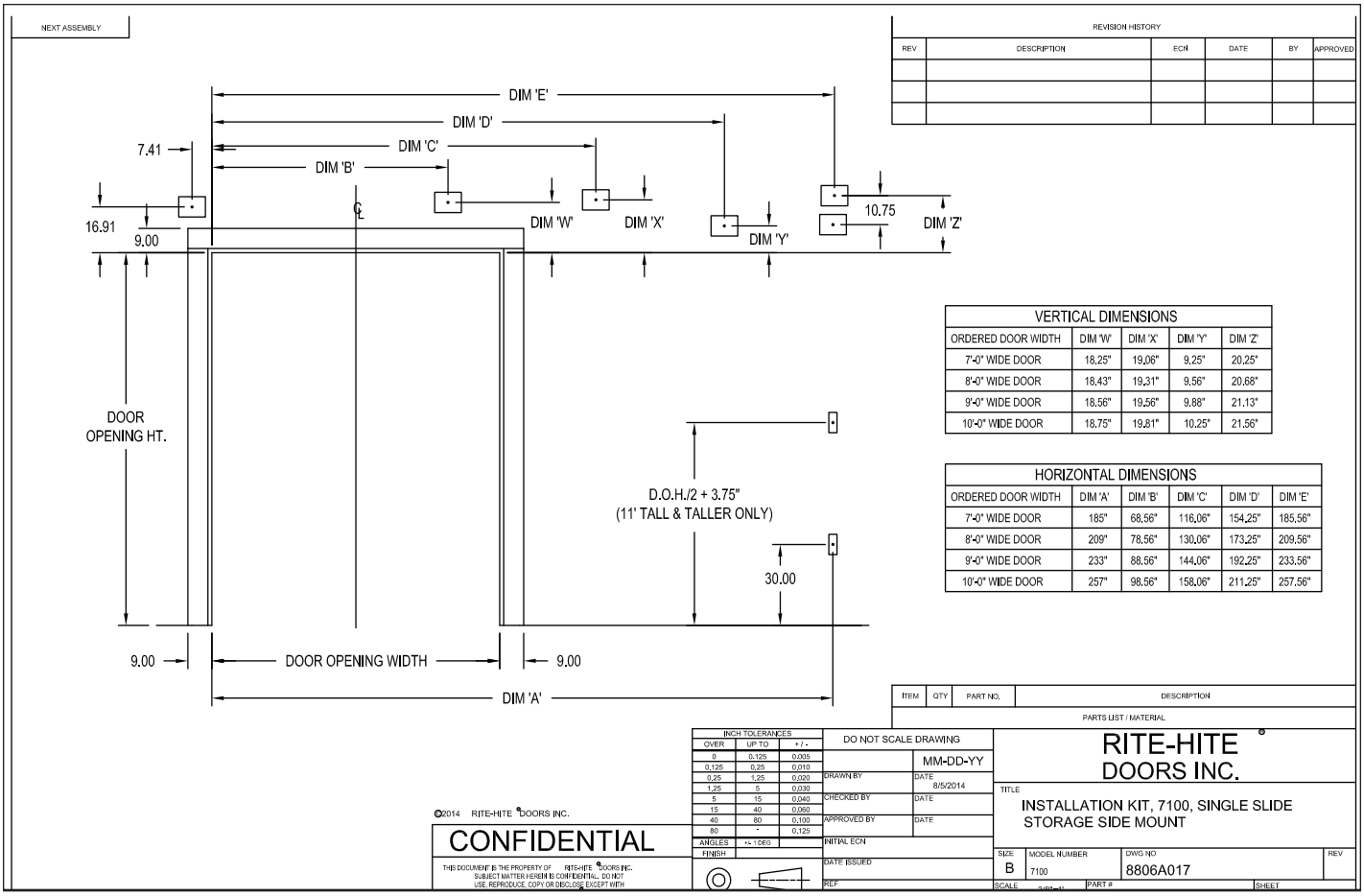
DO NOT SCALE DRAWING
MM-DD-YY
DRAWN BY CDH DATE 6/19/2014
CHECKED BY DATE
APPROVED BY DATE
INITIAL ECN
DATE ISSUED 6/19/2014
REF

RITE-HITE DOORS INC.

TITLE
INSTALLATION KIT, 7100, BI-PART

SIZE	MODEL NUMBER	DWG NO	REV
B	7100	8810A011	A

SCALE 3/8"=1' PART # SHEET



VERTICAL DIMENSIONS				
ORDERED DOOR WIDTH	DIM 'W'	DIM 'X'	DIM 'Y'	DIM 'Z'
7'-0" WIDE DOOR	18.25"	19.06"	9.25"	20.25"
8'-0" WIDE DOOR	18.43"	19.31"	9.56"	20.68"
9'-0" WIDE DOOR	18.56"	19.56"	9.88"	21.13"
10'-0" WIDE DOOR	18.75"	19.81"	10.25"	21.56"

HORIZONTAL DIMENSIONS					
ORDERED DOOR WIDTH	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'
7'-0" WIDE DOOR	185"	68.56"	116.06"	154.25"	185.56"
8'-0" WIDE DOOR	209"	78.56"	130.06"	173.25"	209.56"
9'-0" WIDE DOOR	233"	88.56"	144.06"	192.25"	233.56"
10'-0" WIDE DOOR	257"	98.56"	158.06"	211.25"	257.56"

REVISION HISTORY					
REV	DESCRIPTION	ECN	DATE	BY	APPROVED

ITEM	QTY	PART NO.	DESCRIPTION

PARTS LIST / MATERIAL

INCH TOLERANCES		
OVER	UP TO	+/-
0	0.125	0.005
0.125	0.25	0.010
0.25	1.25	0.020
1.25	5	0.030
5	15	0.040
15	40	0.060
40	80	0.100
80	-	0.125
ANGLES	+/- 1 DEG	
FINISH		

DO NOT SCALE DRAWING
MM-DD-YY
DRAWN BY DATE 8/5/2014
CHECKED BY DATE
APPROVED BY DATE
INITIAL ECN
DATE ISSUED
REF

RITE-HITE DOORS INC.

TITLE
INSTALLATION KIT, 7100, SINGLE SLIDE
STORAGE SIDE MOUNT

SIZE	MODEL NUMBER	DWG NO	REV
B	7100	8806A017	

SCALE PART # SHEET

BI-PARTING HEADER INSTALLATION

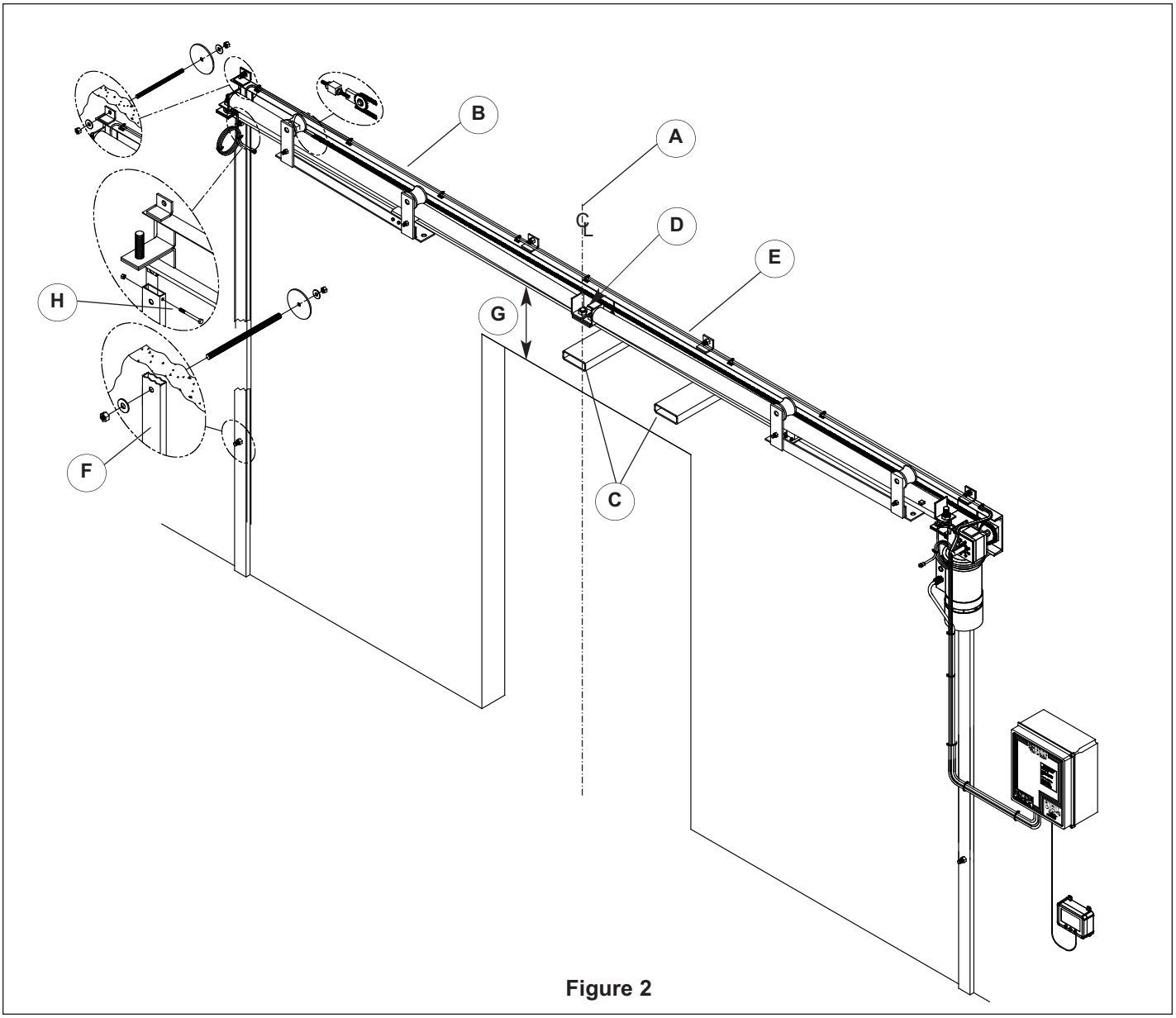


Figure 2

1. Find the center of the top of the jamb and mark an 8in [203mm] vertical line (A).
2. Place header (B) in front of the opening, by locating the factory assembled header lifting tubes (C) bolted to the bottom of the header.
3. Make sure to clamp lifting tubes to fork lift and remove after complete.
4. Line up the center splicing bracket (D) on the header with the line on the center of the jamb.
5. Lift the header using a fork lift and bolt (H) the support posts to the header and place against the wall with the bottom of the C-channel 7 1/2in [191mm] above the jamb.
6. If support posts do not rest on the floor with the header at 7 1/2in [191mm] (G) above the opening, check the floor for obstructions and make corrections. Header should be level to ± 1in [25mm].
7. Thru-bolt the header to the wall at the (4) top (E) and (2) bottom mounting angles using the 6in Ø [152mm] backer plates, all thread and nuts are provided. If wall is not solid, sleeves (not provided) must be used to prevent wall from crushing and sagging of the header.
8. Plumb and fasten the support posts (F) to the wall in the (4 or 6 based on O.D.H) locations provided with the 6in Ø [152mm] backer plates, all thread and nuts are provided.
9. Find the center bracket (D) of the header C-Channel. Chain should be tensioned so there is 1/8in [3mm] between the bottom of the chain and the nylon wear pad.

SINGLE SLIDE NON-DRIVE STORAGE HEADER INSTALLATION

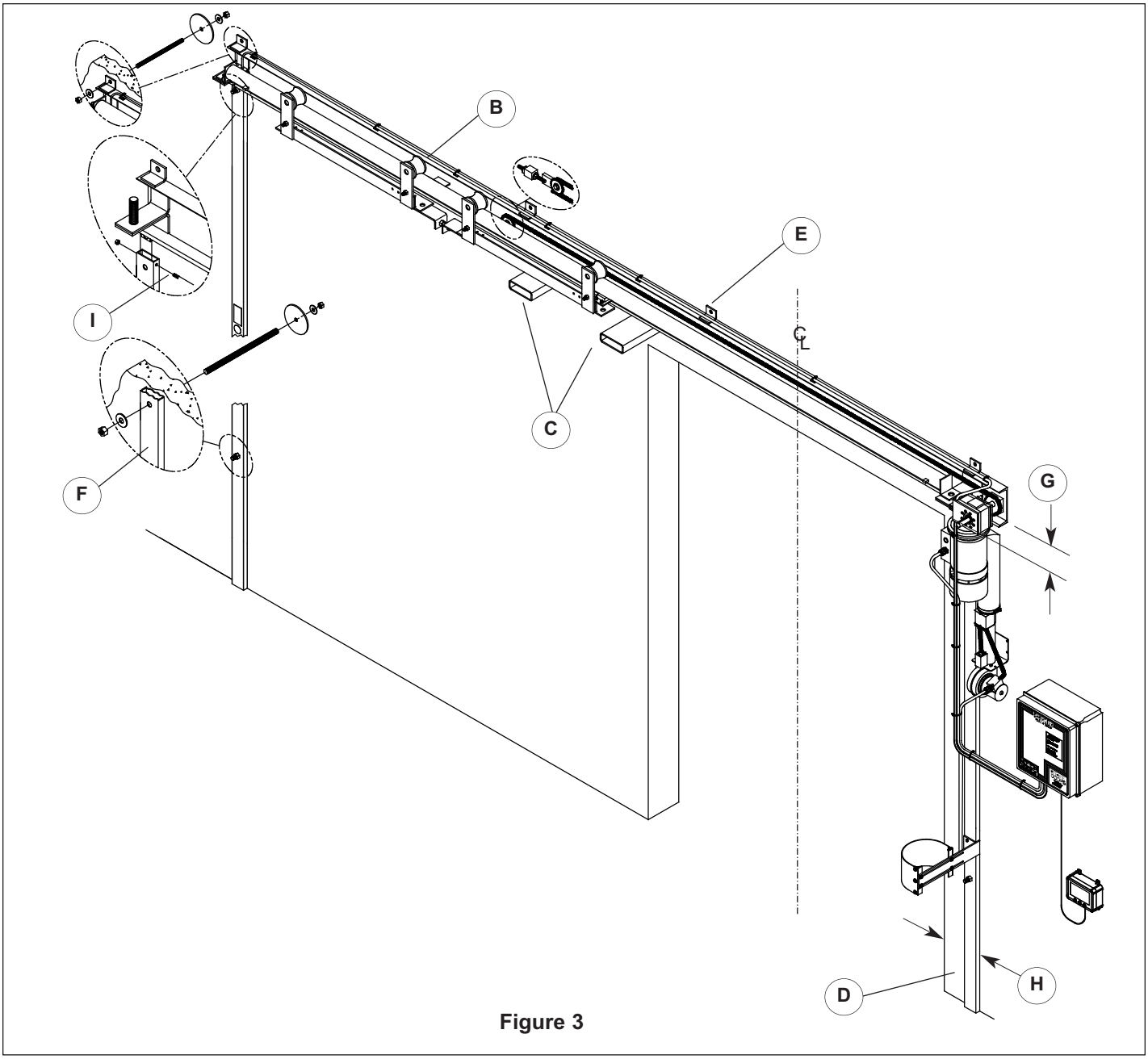


Figure 3

1. Place header (B) in front of the opening, by locating the factory assembled header lifting tubes (C) bolted to the bottom of the header.
2. Make sure to clamp lifting tubes to fork lift and remove after complete.
3. Place shorter jamb side support post (D) 9in [229mm] (H) past the edge of the jamb to the outside of the post.
4. Lift the header using a fork lift and bolt (I) the support posts to the header and place against the wall with the bottom of the C-channel 7 1/2in [191mm] above the jamb.
5. If support posts do not rest on the floor with the header at 7 1/2in [191mm] (G) above the opening, check the floor for obstructions and make corrections. Header should be level to ± 1in [25mm].
6. Thru-bolt the header to the wall at the (4) top (E) and (2) bottom mounting angles using the 6in Ø [152mm] backer plates, all thread and nuts are provided. If wall is not solid, sleeves (not provided) must be used to prevent wall from crushing and sagging of the header.
7. Plumb and fasten the support posts (F) to the wall in the (4 or 6 based on O.D.H) locations provided with the 6in Ø [152mm] backer plates, all thread and nuts are provided.
8. Chain should be tensioned so there is 1/8in [3mm] between the bottom of the chain and the nylon wear pad.

SINGLE SLIDE DRIVE STORAGE HEADER INSTALLATION

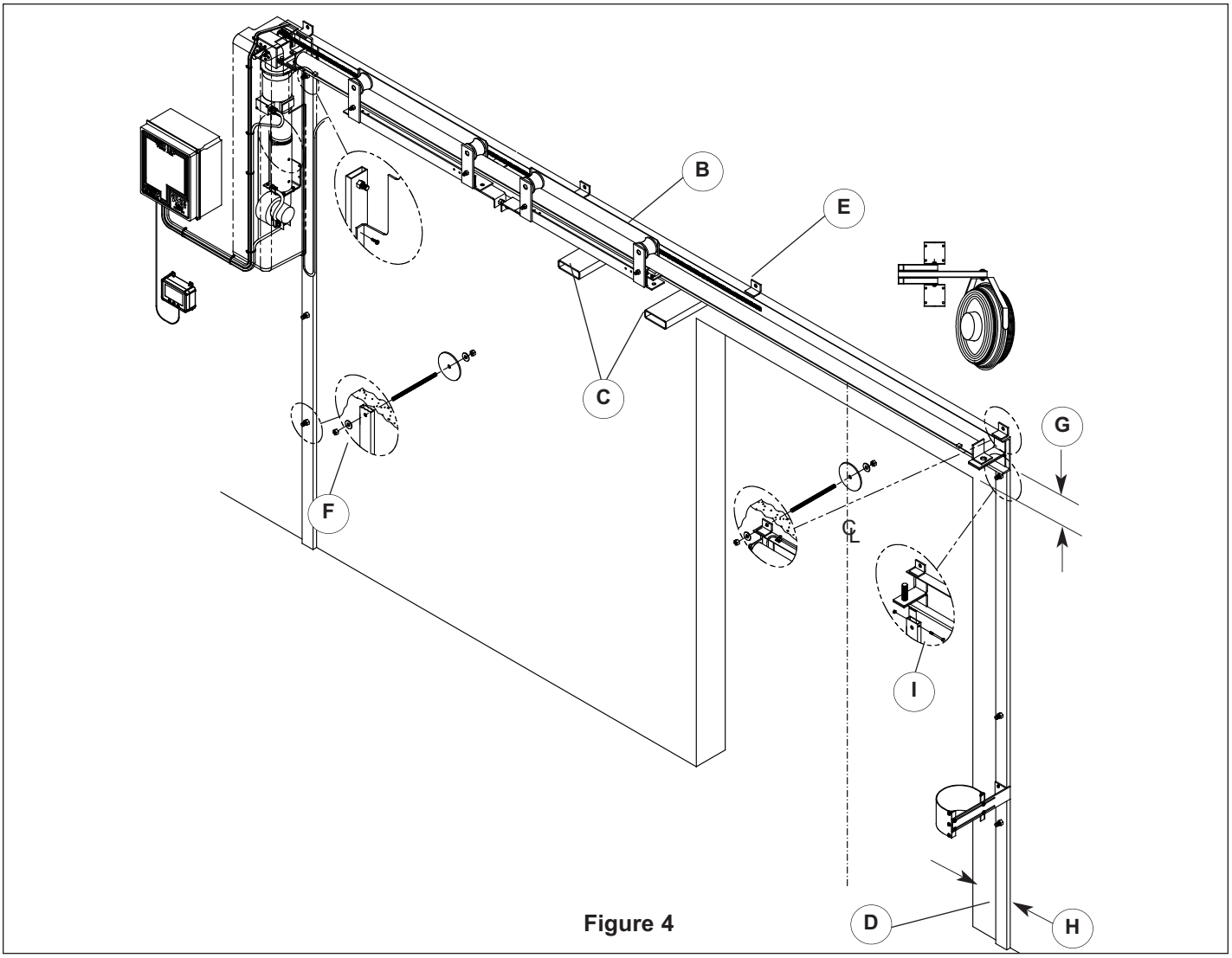


Figure 4

1. Place header (B) in front of the opening, by locating the factory assembled header lifting tubes (C) bolted to the bottom of the header.
2. Make sure to clamp lifting tubes to fork lift and remove after complete.
3. Place shorter jamb side support post (D) 9in [229mm] past the edge of the jamb to the outside of the post.
4. Lift the header using a fork lift and bolt (I) the support posts to the header and place against the wall with the bottom of the C-channel 7 1/2in [191mm] above the jamb.
5. If support posts do not rest on the floor with the header at 7 1/2in [191mm] above the opening, check the floor for obstructions and make corrections. Header should be level to ± 1in [25mm].
6. Thru-bolt the header to the wall at the (4) top (E) and (2) bottom mounting angles using the 6in Ø [152mm] backer plates, all thread and nuts are provided. If wall is not solid, sleeves (not provided) must be used to prevent wall from crushing and sagging of the header.
7. Plumb and fasten the support posts (F) to the wall in the (4 or 6 based on O.D.H) locations provided with the 6in Ø [152mm] backer plates, all thread and nuts are provided.
8. Chain should be tensioned so there is 1/8in [3mm] between the bottom of the chain and the nylon wear pad.

PERIMETER SEAL BP SINGLE BLOWER

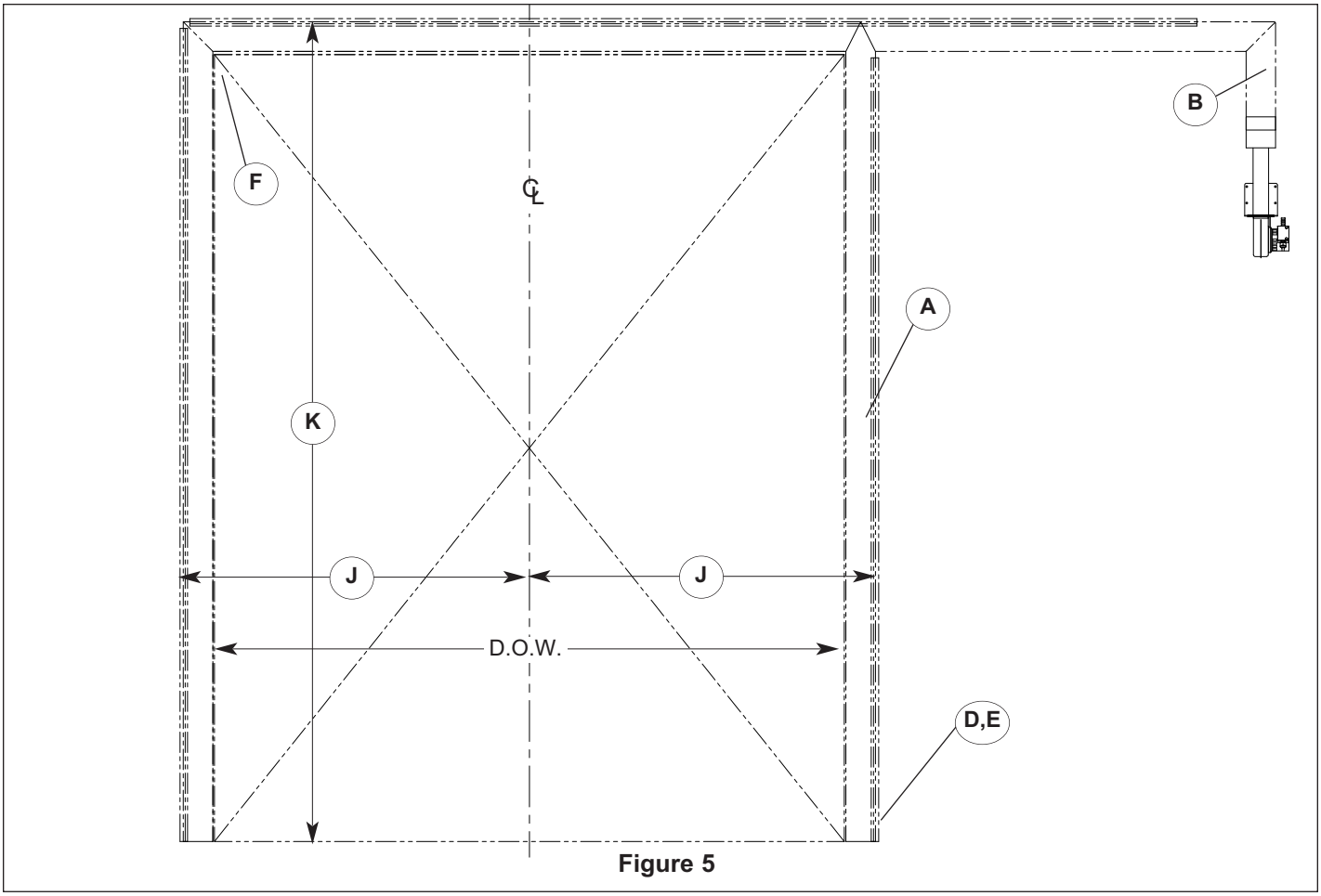


Figure 5

1. Find the center of the opening and place a mark on the floor. From the center of the opening measure and snap a chalk line on the wall the full height of the opening 1/2 O.D.W. plus 5 1/2in [140mm] (J).
2. From the floor, measure O.D.H. plus 5 1/2in [140mm] (K) to the top of the opening and snap a chalk line the full width of the opening.
3. Position Thermal Air® sealing system (A) in front of the opening with the extended section on the drive side. Vertical extension (B) is fastened to the blower on the drive side.
4. Fasten the aluminum seal retainer (C) ***Figure 7*** to the wall at the bottom ***Figure 8***, and then every 18in [457mm] using the #14 x 1 1/4in [32mm] hex head screws provided if possible. Pull seal tight and place a fastener thru the retainer and the white rope at the top. Repeat for opposite side.
5. Pull top retainer to the previously marked line and fasten to the wall.
6. Air seal must be twist and wrinkle free (F).
7. Air exhaust hole must not be obstructed (E) on both sides.
8. After seal installation caulk the entire inside perimeter of the aluminum retainer. Failure to do this may result in frost or ice buildup.
9. Mount the blower (G) to the wall such that no part of the blower sticks past the header and the vertical section of the air seal will attach to it. The fabric should be taught but not stretched when clamping (H) to the blower. Use (4) #14 x 1 1/4in [32mm] hex head screws provided.

NOTE:

Make sure aluminum retainers are to the outside of the air seal.

Periodic cleaning of the perimeter air seal sealing system may be required.

*As of **2/1/2015**:*

Doors that are greater than 16ft-0in O.D.H. require dual perimeter air seals. However dual air seals can be ordered optional for any size door.

PERIMETER SEAL BP DUAL BLOWER

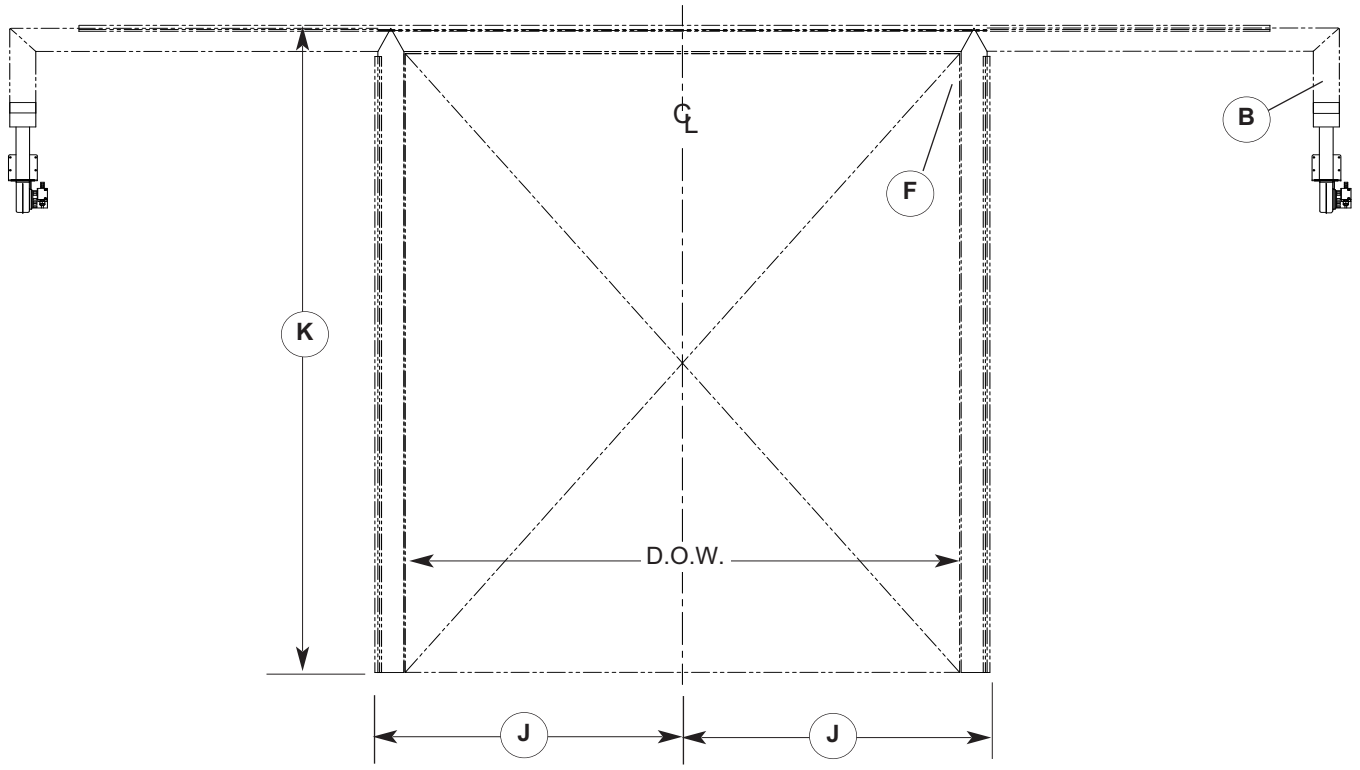


Figure 6

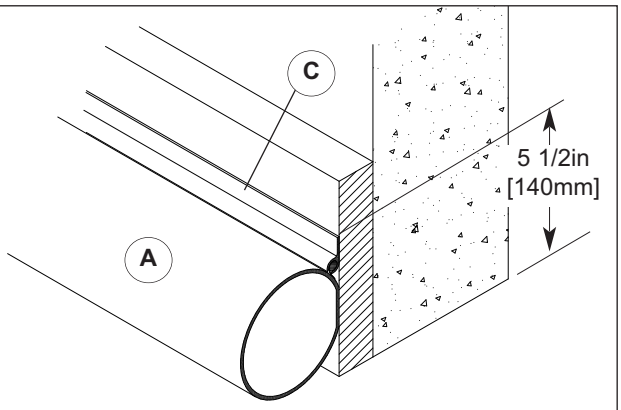


Figure 7

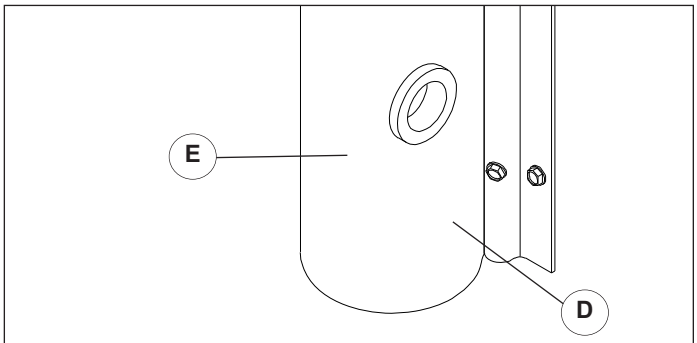


Figure 8

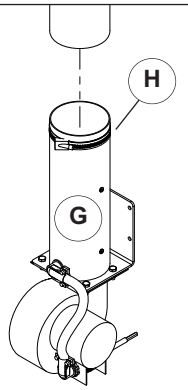


Figure 9

PERIMETER SEAL SS DUAL BLOWER

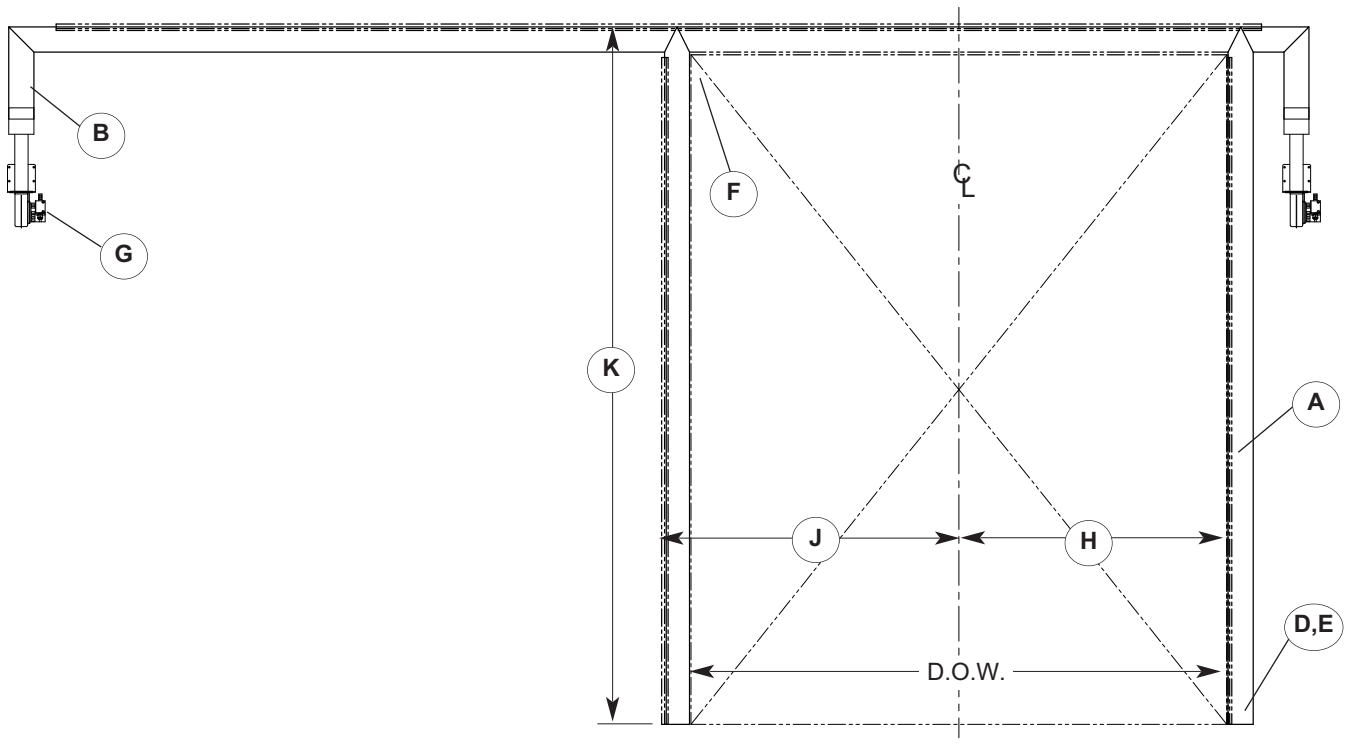


Figure 10

1. Find the center of the opening and place a mark on the floor. From the center of the opening measure and snap a chalk line on the wall the full height of the opening:

   (H) Drive Side: 1/2 O.D.W. plus 1/4in [6mm] and

   (J) Storage Side: 1/2 O.D.W. plus 5 1/2in [140mm].

2. From the floor, measure O.D.H. plus 5 1/2in [140mm] (K) to the top of the opening and snap a chalk line the full width of the opening.

3. Position Thermal Air® sealing system (A) in front of the opening with the extended section on the drive side. Vertical extension (B) is fastened to the blower on the drive side.

4. Fasten the aluminum seal retainer (C) ***Figure 7*** to the wall at the bottom ***Figure 8***, and then every 18in [457mm] using the #14 x 1 1/4in [32mm] hex head screws provided if possible. Pull seal tight and place a fastener thru the retainer and the white rope at the top. Repeat for opposite side.

5. Pull top retainer to the previously marked line and fasten to the wall.

6. Air seal must be twist and wrinkle free (F).

7. Air exhaust hole must not be obstructed (E) on both sides.

8. After seal installation caulk the entire inside perimeter of the aluminum retainer. Failure to do this may result in frost or ice buildup.

9. Mount the blower (G) to the wall such that no part of the blower sticks past the header and the vertical section of the air seal will attach to it. The fabric should be taught but not stretched when clamping (H) to the blower. Use (4) #14 x 1 1/4in [32mm] hex head screws provided.

NOTE:

Aluminum retainers are to the outside of the air seal on the storage side and toward the inside on the drive side.

*As of **2/1/2015**:*

Doors that are greater than 16ft-0in O.D.H. [5M] require dual perimeter air seals. However dual air seals can be ordered optional for any size door.

PERIMETER SEAL SS SINGLE BLOWER

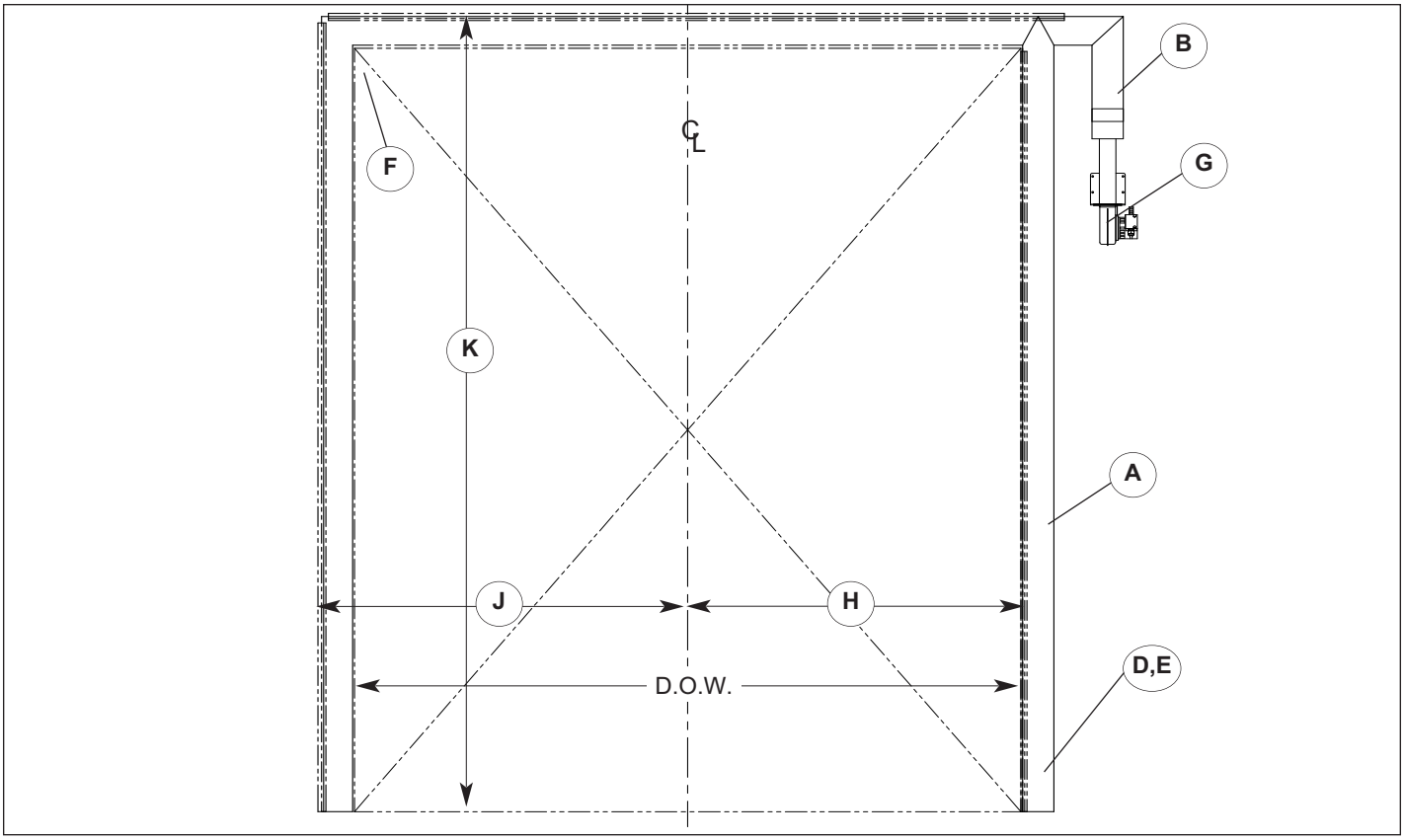


Figure 11 - Right Hand Drive Shown: Right Hand Drive w/Left Hand Slide or Left Hand Drive w/Right Hand Slide

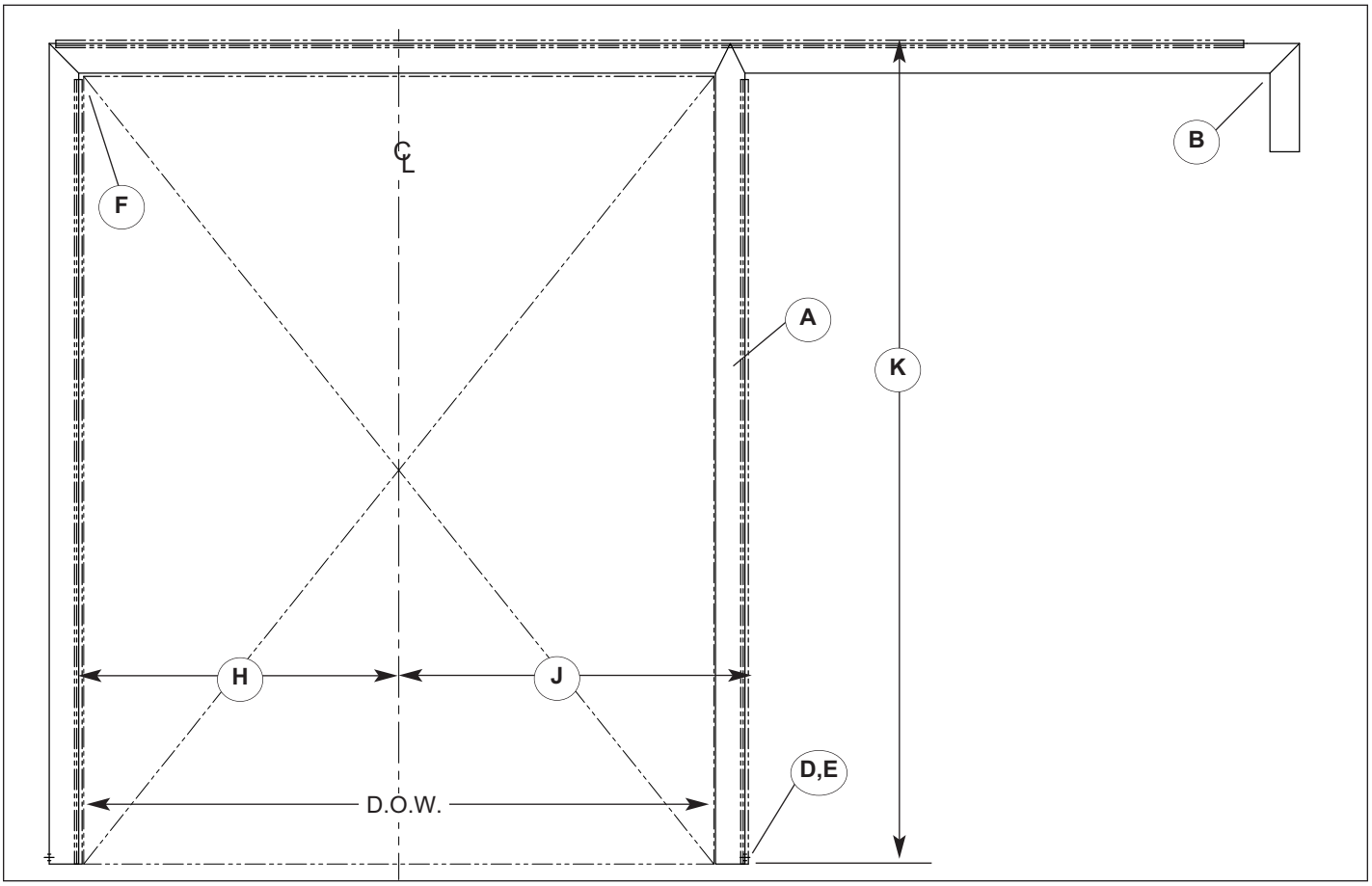


Figure 12 - Right Hand Drive w/Right Hand Slide or Left Hand Drive w/Left Hand Slide

Bi-PART PANEL INSTALLATION

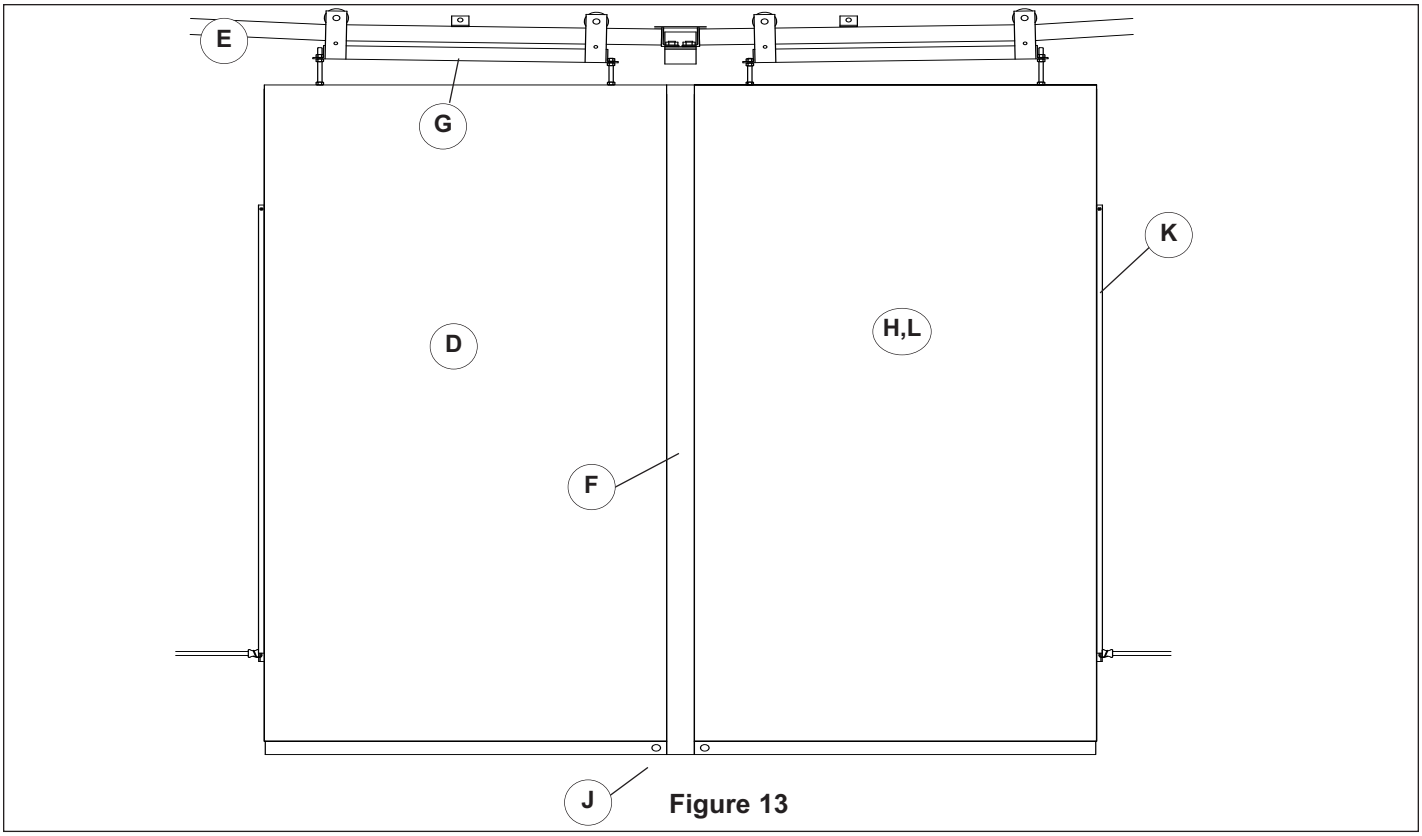


Figure 13

1. Remove the top 5/8in [19mm] nut (A) & washer (B) 15/16in [24mm] wrench) from the threaded rods (C).
2. Place the left panel (D) in front of the header (E) with the thread rods at the top and the nose seal (F) toward the center of the door.
3. Tilt panel such that the all thread rods will slide into the holes on the trolley (G), fasten with nuts and washers removed earlier.
4. Repeat for right panel (H).
5. The panel should be adjusted so that the bottom seal (J) is compressed no more than 1/4 - 3/8in [6 - 10mm] and no light is showing across the full length of the floor when closed. Panel bottom seal holes must remain open for air to exit. Repeat procedure for opposite panel.
6. With the cord at the bottom, fasten retention spring assembly (K) to the outside of the trail panel (L) by lining up the pre-drilled holes in the extrusion with the pre-marked holes on the panel. Use the #14 x 1 1/4in [32mm] self/tap drill screws provided.
7. Fasten eyebolt and nut (M) to the panel in the pre-tapped hole.
8. Fasten the blower assembly (N) to the panel using the self tap/drill screws provided and connect plugs.
9. Bottom seal fan not present with cooler door option

NOTE:

After panel is adjusted, torque nuts as tight as possible to prevent loosening from vibration and seal loss.

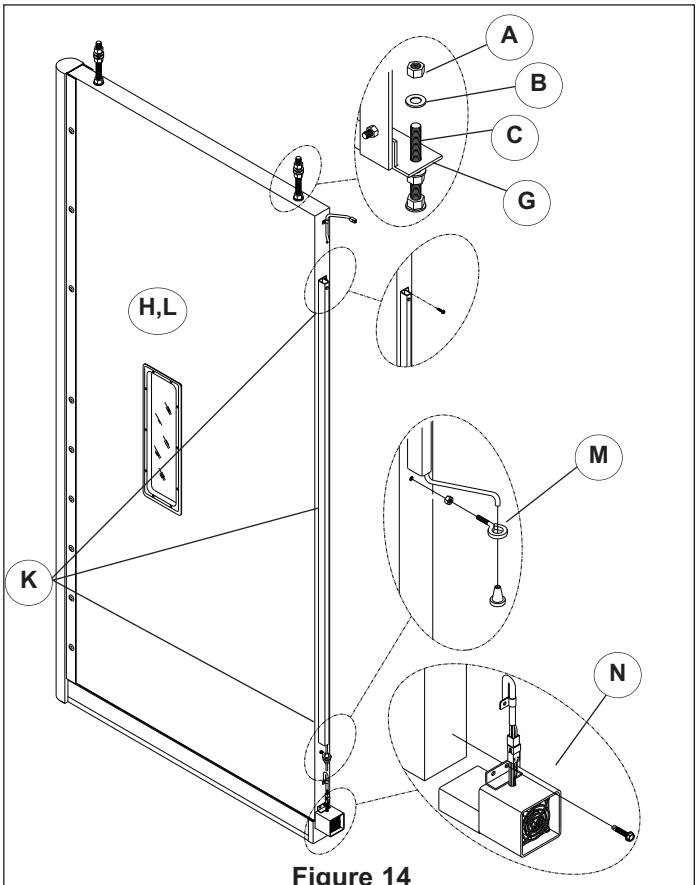


Figure 14

SINGLE SLIDE PANEL INSTALLATION

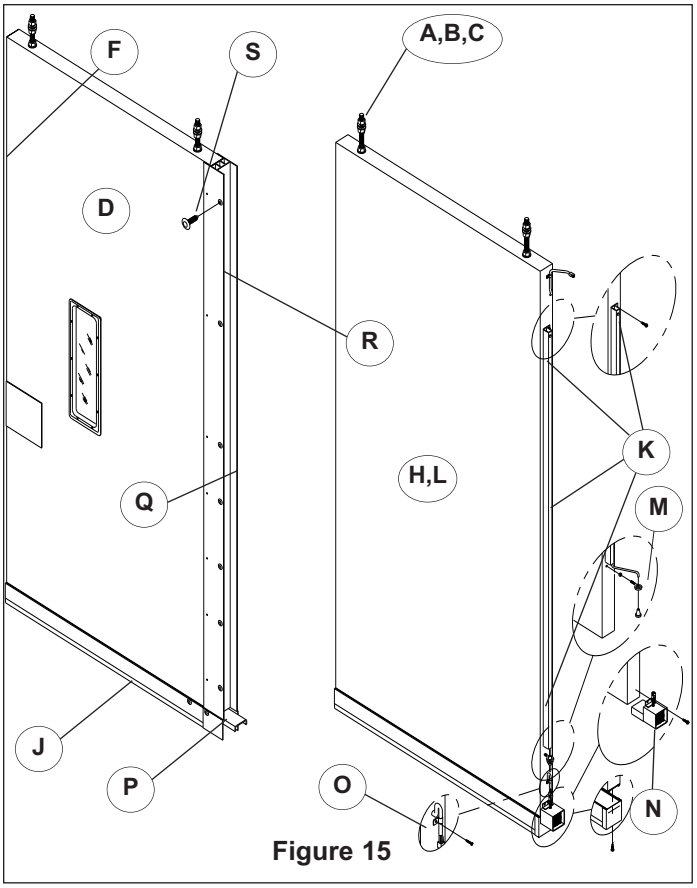


Figure 15

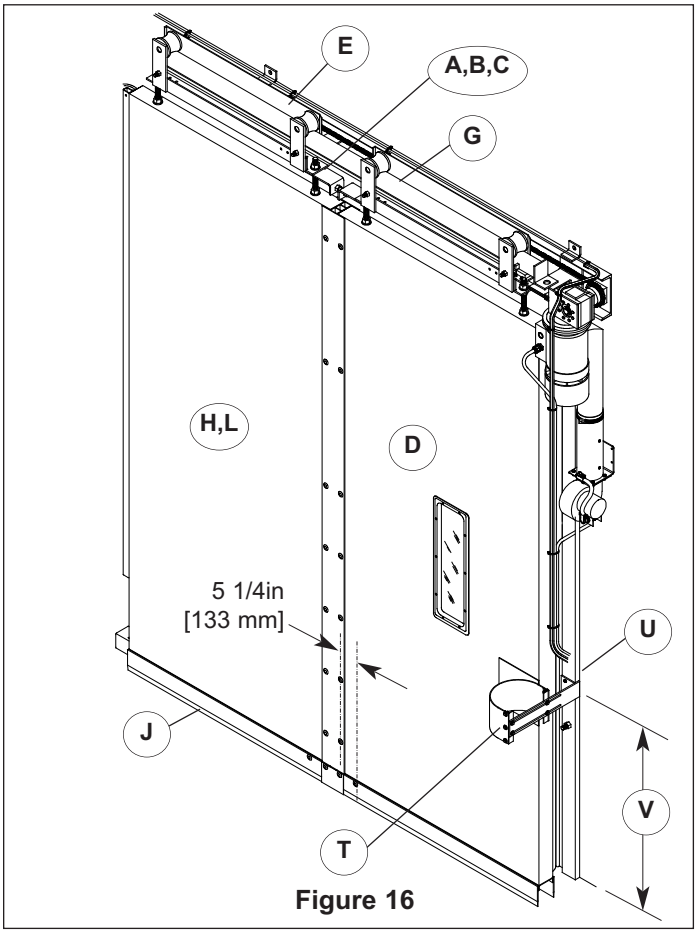


Figure 16

1. Remove the top 5/8in [19mm] nut (A) & washer (B) 15/16in [24mm] wrench) from the threaded rods (C).
2. Place the lead panel (D) in front of the header (E) with the thread rods at the top and the nose seal (F) toward the center of the door.
3. Tilt panel such that the all thread rods will slide into the holes on the trolley (G), fasten with nuts and washers removed earlier.
4. Repeat for right panel (H).
5. The panel should be adjusted so that the bottom seal (J) is compressed no more than 1/4in - 3/8in [6 - 10mm] and no light is showing across the full length of the floor when closed. Panel bottom seal holes must remain open for air to exit. Repeat procedure for opposite panel.
6. With the cord at the bottom, fasten retention spring assembly (K) to the outside of the trail panel (L) by lining up the pre-drilled holes in the extrusion with the pre-marked holes on the panel. Use the #14 x 1 1/4in [32mm] self/tap drill screws provided.
7. Fasten eyebolt and nut (M) to the panel in the pre-tapped hole.
8. Fasten the blower assembly (N) to the panel using the self tap/drill screws provided and connect plugs.
9. Bottom seal fan not present with cooler door option.
10. Fan cable attachment (O).
11. Set trail panel on top of lead panel lower bracket (P), slide trail panel into "H" bracket until the 1 5/8in [41mm] marks disappear.
12. Separate the trolleys by removing the bolt & nuts connecting them together.
13. Place marks along inside vertical edge of trail panel, 1 5/8in [41mm] in from edge of panel.
14. Apply a generous bead of caulk down the middle of the rear edge (Q) of the lead panel.
15. Attach the trail panel by drilling 17/64in [7mm] holes in the pre-drilled holes on the "H" bracket (R) and inserting the plastic rivets (S). **DO NOT DRILL THRU PANEL.**
16. Attach the panels and bottom seal flap together by drilling 17/64in [7mm] holes through the pre-drilled holes in the overlap flap, plastic and aluminum, then inserting two plastic rivets.
17. Fasten panel guide (T) to the support post (U) so it is centered (V) on the panel wear pad. To adjust, loosen bolts and slide in slots so panel is tight against the wall seal.
18. The top of the panels can be pulled together with the trolley to trolley attachment bolt at the top that was removed earlier. If panels are not tight together, remove spacer nut.

NOTE:

After panel is adjusted, torque nuts as tight as possible to prevent loosening from vibration and seal loss.

DO NOT use excessive force when hammering rivets into place, as distortion may occur.

RETENTION SYSTEM INSTALLATION

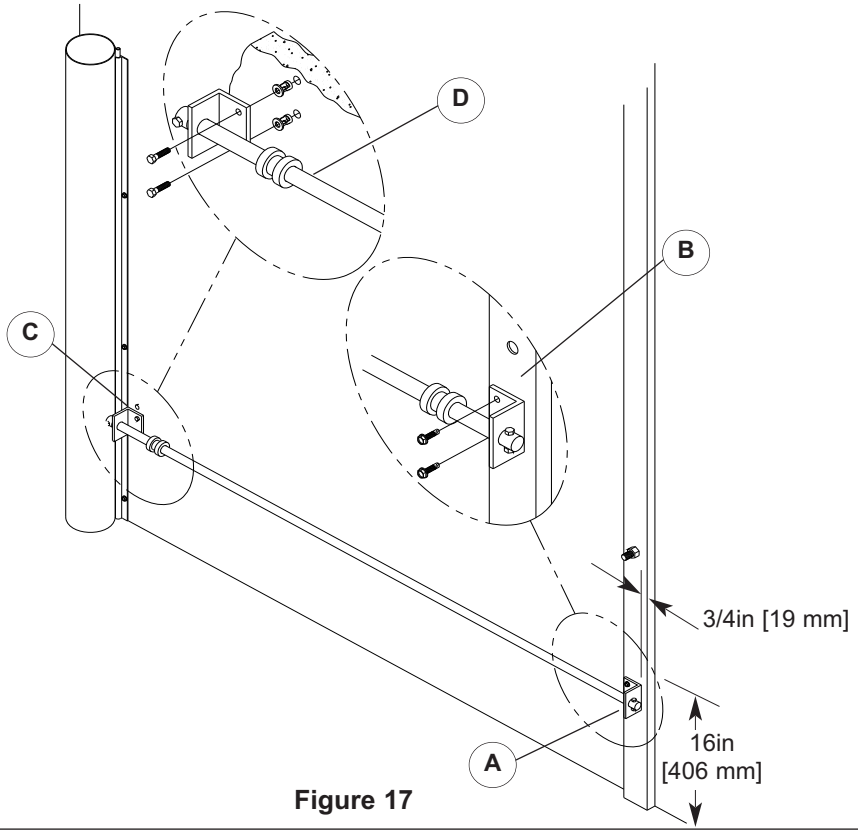


Figure 17

1. Mount outside wall bracket (A) on the support post (B), 16in [406mm] from the floor to the top of the bracket and 3/4in [19mm] from the outside of the post with the self tap/drill screws provided.
2. Mount inside bracket (C) on the wall with angle tight against the retention rod bolt. Make sure mounting method will hold if panel is impacted.
3. The center of the slide rod (D) should be approximately 3 1/2in [89mm] below the panel eyebolt.
4. Slide eyebolt insert (E) onto cord with insert facing up.
5. To pre-tension the spring (F), pull 6in [152mm] of cord out, tie a knot (G) below the eyebolt insert.
6. Wrap cord around the slide collar (H) and fasten with cable clamp (J), cut excess cord.

NOTE:

Cord should be tensioned to maintain a 3 1/2in [89mm] gap from the panel to the wall.

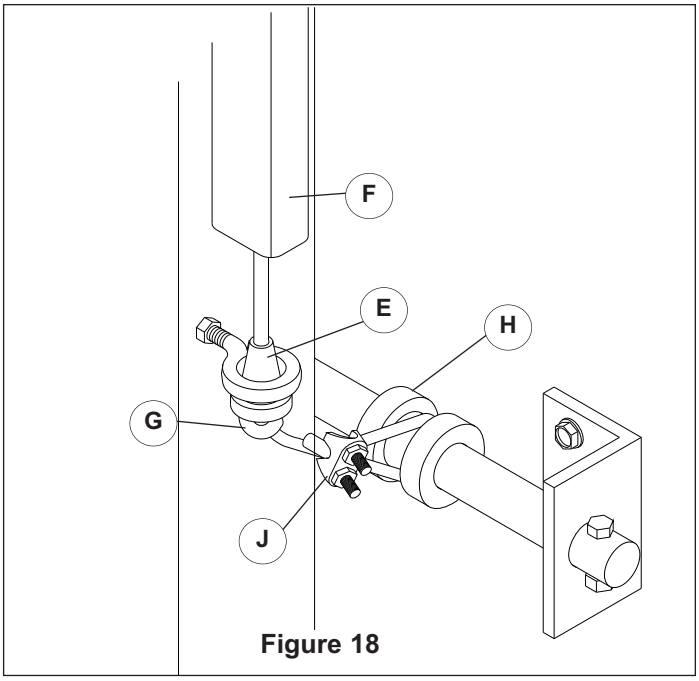


Figure 18

ENCODER INSTALLATION

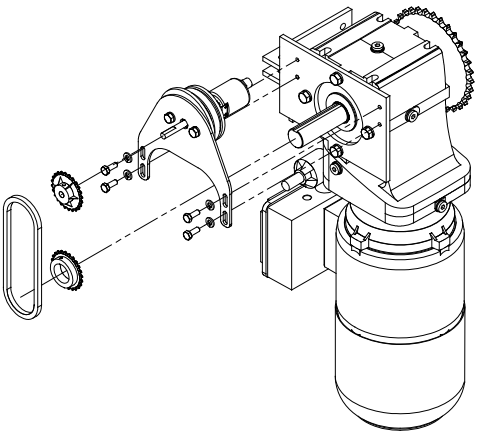


Figure 19

1. Finger tighten all 4 bolts on encoder mounting plate (A) to gearbox.
2. Slide encoder non-drive sprocket (B) onto the encoder shaft with hub out and even with the end of the shaft and tighten set screws.
3. Slide encoder drive sprocket (C) onto the drive shaft with hub facing out.
4. Install encoder chain (D) around sprockets.
5. Measure from each sprocket to plate aligning chain, apply tension and tighten mounting plate bolts.
6. Tighten set screw on drive sprocket using a 3/32in allen wrench. (Do NOT overtighten - 5in/lbs [0.56N-m]) Sprocket does NOT require a key.

NOTE:

DO NOT TIGHTEN SET SCREWS INTO THE KEY WAY SLOT. Set screws are not long enough to provide a tight connection. Slippage may result.

RITE-HITE DOORS NOTES PAGE

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ELECTRICAL INSTALLATION

DANGER

When working with electrical or electronic controls, make sure that the power source has been locked out and tagged according to OSHA regulations and approved local electrical codes.

DANGER

A qualified electrician should install the wiring in accordance with local and national electrical codes.
Use lockout and tagout procedures to avoid injury.

DANGER

To reduce risk of injury or death, an earth ground connection MUST BE made to the green/yellow control box ground terminal. If metal conduit is used as the ground connector, an N.E.C. approved ground bushing and green/yellow wire MUST BE properly attached to the conduit for connection to the ground terminal.

NOTICE

Do not drill holes on top of control box to run conduit, as dust particles and moisture may cause damage to electrical components. The safest location is at the bottom. Failure to do so will void warranty.

1. It is the responsibility of the end user to provide electrical service up to the control box (A) with proper branch service protection and an approved means of disconnect (B).
2. 20 or 30 Amp service may be required for cable runs longer than 300ft [91M].
3. If low control box mounting is desired, mount control box adjacent to the door at approximately 54in [1372mm] above the floor and 14in [356mm] from lower track.

   If utilizing Graphical User Interface option (C), mount control box near motor, however, allow room for installing or removing motor assembly.
4. The motor and brake cables (D) are pre-wired and must be wired to the control box.

   DO NOT coil or let conduit hang on the floor.
5. If local electrical codes require the use of rigid conduit:
6. If possible, mount on the warm side regardless of door mount side.
7. In freezer and cooler applications where a conduit passes from a warm to cold temperature zone, the conduit must be plugged with epoxy.

   This will help prevent condensation from forming in the conduit.
8. All holes drilled, must be through the bottom of the box (E). Conduit entering the sides or top of the enclosure will void the warranty.

WARNING

Make sure to barricade the door opening on both sides to prevent unauthorized use until the door has been completely installed.

NOTICE

Damage or debris may fall into electrical components causing failure or severe equipment damage, when drilling holes in the box.
DO NOT turn control box upside down or go too deeply into the box.

NOTICE

In freezer and cooler applications where a conduit passes from a warm to cold temperature zone, the conduit must be plugged with epoxy. This will help prevent condensation from forming in the conduit. For more information, see Section 300-7a of the National Electric Code.

9. Use the proper sealed connectors to maintain the rating on the enclosure.
10. Line up pins and connect encoder cable (E) to encoder. Verify connector is tight. DO NOT over tighten as pins will twist. When tight, the connector should not be able to move back and forth.
11. Incoming single or 3-phase power must connect into fuse holder terminals F1, F2, F3 and ground terminal.

    Terminals in the control box will not accommodate wires larger than 12AWG [2.05mm].
12. Route all field installed wires so that separation is maintained between line voltage wires and low voltage class II wiring.
13. The control box is provided with class CC protective fusing for the incoming power.
14. Cut the cable tie holding the panel blower/heater cable and route to control box. Connect cables together at the heater / blower.
15. Refer to electrical diagrams on ***page 32 or 33*** for further information.

NOTE: DO NOT SPLICE CONTROL WIRING

ELECTRICAL INSTALLATION

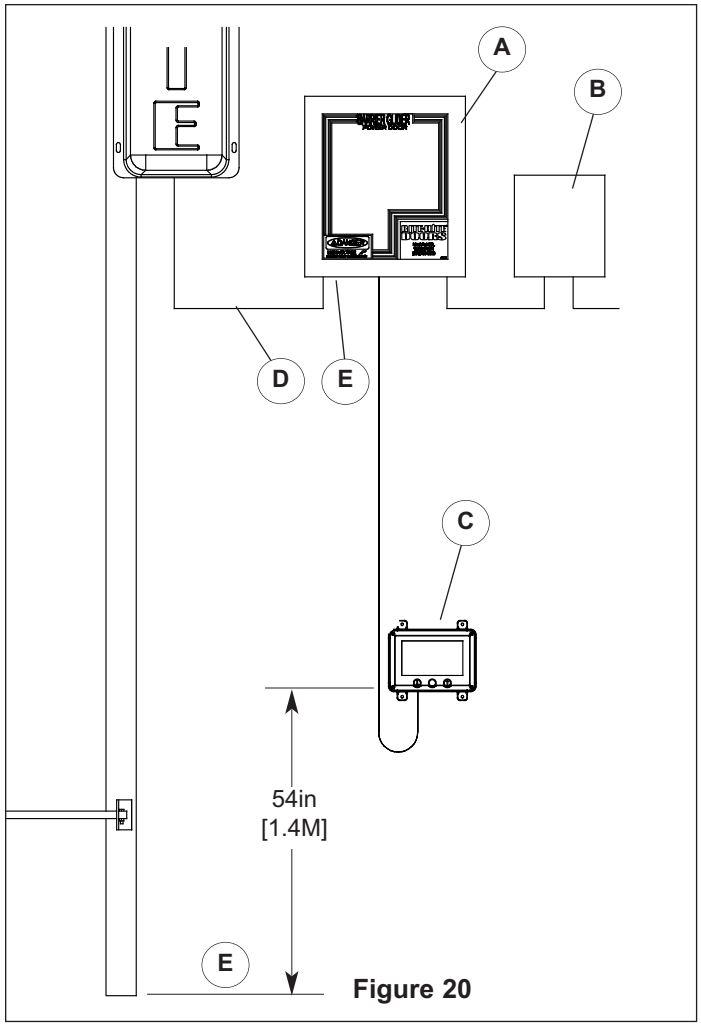


Figure 20

ELECTRICAL INSTALLATION

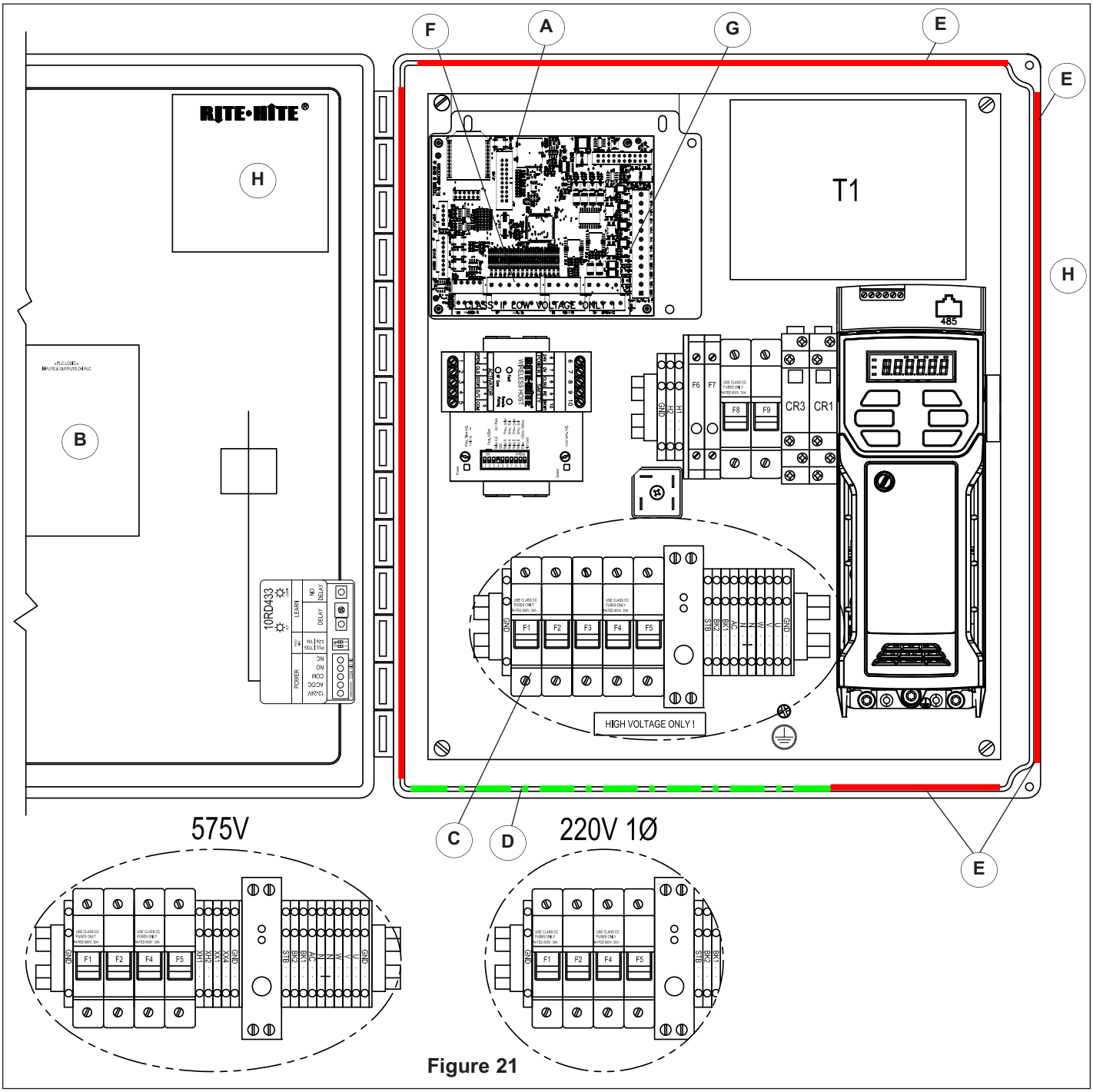


Figure 21

A. The i-COMM controls all functions of the door.

B. Label inside control box that is a ready reference to the i-COMM inputs and outputs, ***Page 23.***

C. Incoming power terminals L1, L2, L3, ground.

D. Green bold dashed line indicates safe area for drilling holes.

E. Red bold solid line indicates un-safe area for drilling holes

F. Illuminated input Led's.

G. Illuminated output Led's.

H. Serial number label.

i-COMM 3 INPUT / OUTPUT TABLE

RITE-HITE®
ALWAYS LOOKING AHEAD

Barrier® Glider Encoder
i-COMM™ 3 Quick Reference

INPUT TABLE	
Input	Function
X0	Close PB
X1	Stop PB
X2,X3,X6,X7	Activation Command
X4	Close PB
X5	Toggle Command
X8*,X9*	Unused
X10*	Torque Reverse
X11*	Unused
X12	Open/Reset PB
X13	Induction Loop Input
X14*	Fault Input
X15*	Input Power

* Not shown in I/O menu and not programmable

OUTPUT TABLE	
Relay Output	Function
YK0	Interlock Out
YK1	Programmable
YK2	Programmable
DC Output	Function
YDC0	On when door Open
YDC1	Unused
*YDC2	Unused
*YDC3	Open/Reset PB Light
*YDC4	Unused
YDC5	Preannounce to Close
*YDC6	Unused
*YDC7	Disabled

53850769-1

WIRELESS ACTIVATION

Figure 22

Pair the unit(s) at the control box prior to mounting.

To pair the host with a wireless device:

1. Apply power to the control box and wireless host unit.
2. Open the cover and remove the plastic strip (A) under the batteries in the remote unit to energize the device.
3. Press the "Pair button" (B) on the desired remote unit. An Amber LED will begin to flash to indicate it is in the pairing mode.
4. On the wireless host, use a 1/8in [3mm] diameter rod made from a non-ferrous* material and insert into the "Remote Pairing" (C) hole approximately 1 1/2in [38mm] in depth until you feel a button depress and then release it. The "RF Com" LED (D) will begin to flash green once per second to indicate it is in pairing mode.
5. Once paired, the Red and Green LED's will briefly turn on and then off. If the units are unable to pair up, the Green light will continue to flash for 20 seconds and then time out.
6. To test, activate the remote unit. The Green LED on the host and the Amber LED on the remote should turn on and operate the door. If not, reattempt pairing process.
7. Mount the remote unit at it's operating position.
8. Wiring for host unit to Control Box i-COMM ii:

   4 - X6 5 - DC 6 - DC 7 - OV

NOTICE

Performing this operation will cause the Host to clear all paired remotes. Remotes must be re-paired in order to re-establish communication.

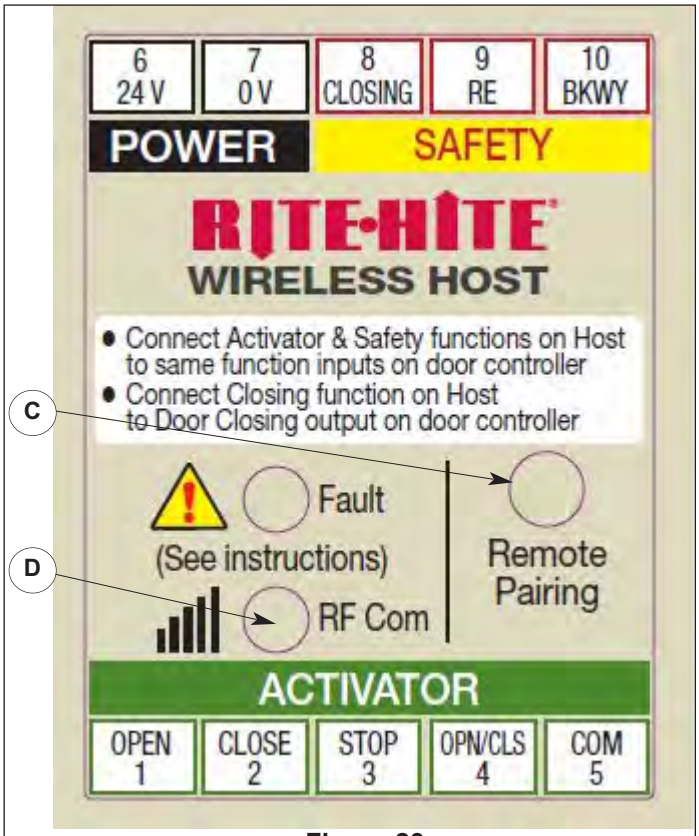


Figure 23

Resetting Communication Parameters

If the batteries are not lasting as long as they should, reset the communication parameters.

1. With power applied to the Host, insert a thin screwdriver into the "Remote Pairing" slot. With the tip of the screwdriver pointing straight into the slot locate the "Remote Pairing" button.
2. Using the screwdriver, apply pressure to the "Remote Pairing" button. The GREEN LED will illuminate once the button has been pressed.
3. Keep pressure applied to the button for at least 5 seconds. The GREEN LED will turn OFF to signify the correct amount of time has elapsed.
4. Once the GREEN LED has turned OFF remove pressure from the button.
5. The GREEN LED will turn ON for 1 second to signify that the operation was performed successfully.
6. The Host will now RESET, causing both the RED and the GREEN LED to briefly turn ON and then turn OFF.
7. The communication parameters have now been successfully RESET.

ELECTRICAL LAYOUT

VIRTUAL VISION DESCRIPTION

Virtual Vision is optional on model 7100 Barrier Glider doors. There will be a motion sensor mounted on each side of the door, as well as 2 red LED light bars on each side of the opening on both sides. The motion sensors will detect motion on the opposite side of the curtain to warn oncoming traffic of a possible pedestrian or forklift on the opposite side.

To avoid cross talk when changing the settings on the Virtual Vision or activation sensors when using the remote controls, Rite-Hite offers the following three options:

The BEA remote control allows you to set a unique security code for each sensor. Then you would be able to enter the code for the sensor you are interested in changing, and it will only change the settings for that sensor. To accomplish this, temporarily disconnect the activation sensor(s) from its power supply (at the i-COMM), use the remote to set a security code (e.g. "1111") for the Virtual Vision sensor(s), then power up all sensors. The activation sensor will have the default security code "0000" for its settings, and the Virtual Vision sensor will have its new security code (use unlock/lock sequence). There should be no cross-talk with the remote's instructions when using this approach. Make sure to record these values for future reference.

If you do not wish to use security code settings, you can simply power down one unit (at the i-COMM) while setting the other unit, and then do the same thing with the other unit. This is similar to option "a", although if you want to make subsequent changes to the settings, you would need to go through the power down procedure again.

If you do not wish to power down the units or use security settings, you can physically cover one of the units while programming the other unit. Any opaque material (e.g. cardboard) should work, this may be difficult for units mounted high above the opening.

INSTALLATION INSTRUCTIONS

1. Install Panel fan(s) (A) beyond the support posts near the top of the opening. Adjust fan to move air across the panel.
2. If door is mounted on cold side, install fans on warm side.
3. DO NOT mount fan other than method shown. Rotating mounting brackets 90° will cause failure.
4. Locate Virtual Vision light bar assemblies (C) on each side of the doorway and in clear view of oncoming traffic. They should be installed approximately 2ft [610mm] off the floor, adjacent to the doorway (e.g. goal posts or wall) and in a location that is protected from potential impact damage.
5. Virtual Vision Motion Sensor (D).
6. Motion sensors should be installed off to the side.
7. Sensors should be programmed for a 2 second hold time and bi-directional detection.
8. Direct sensors so they DO NOT extend beyond the width of the door.
9. Mount step down transformer (E) if 120V not available.
10. If door is equipped with Thermal Air Seal step down transformer junction box (F), plug in Virtual Vision cable. If not, there will be a separate junction box strictly for the Virtual Vision.
11. Mount opposite side Virtual Vision assembly (G).
12. Mount opposite side Virtual Vision motion sensor (H).
13. Thermal Air-Seal Heater/Blower (J).
14. End User Provided Disconnect (K).
15. Swivel arm mounting bracket, it is recommended to thru-bolt to the wall.

NOTE: Fan(s) may be turned off if there is no moisture present.

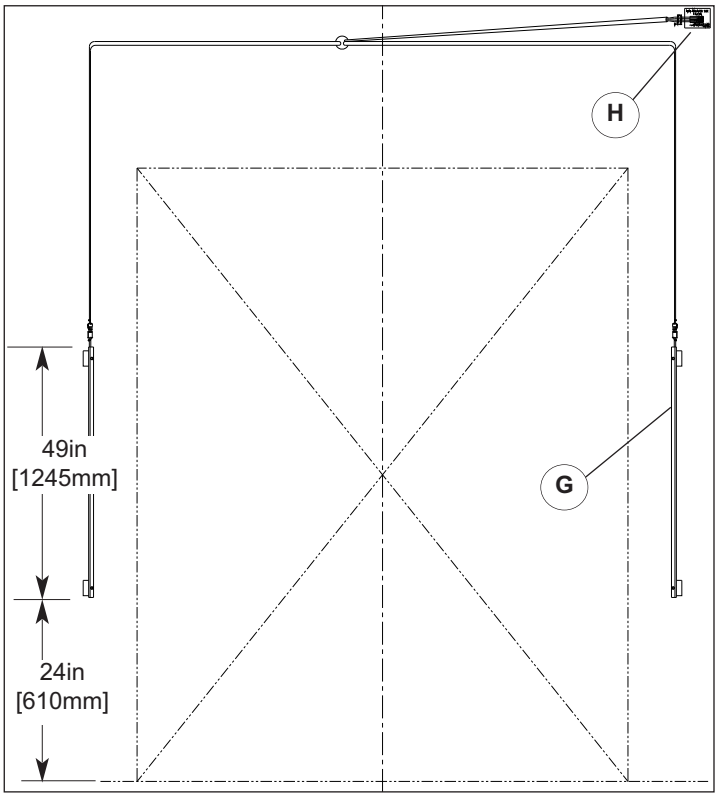


Figure 24- Back side

ELECTRICAL LAYOUT BLOWER - BP

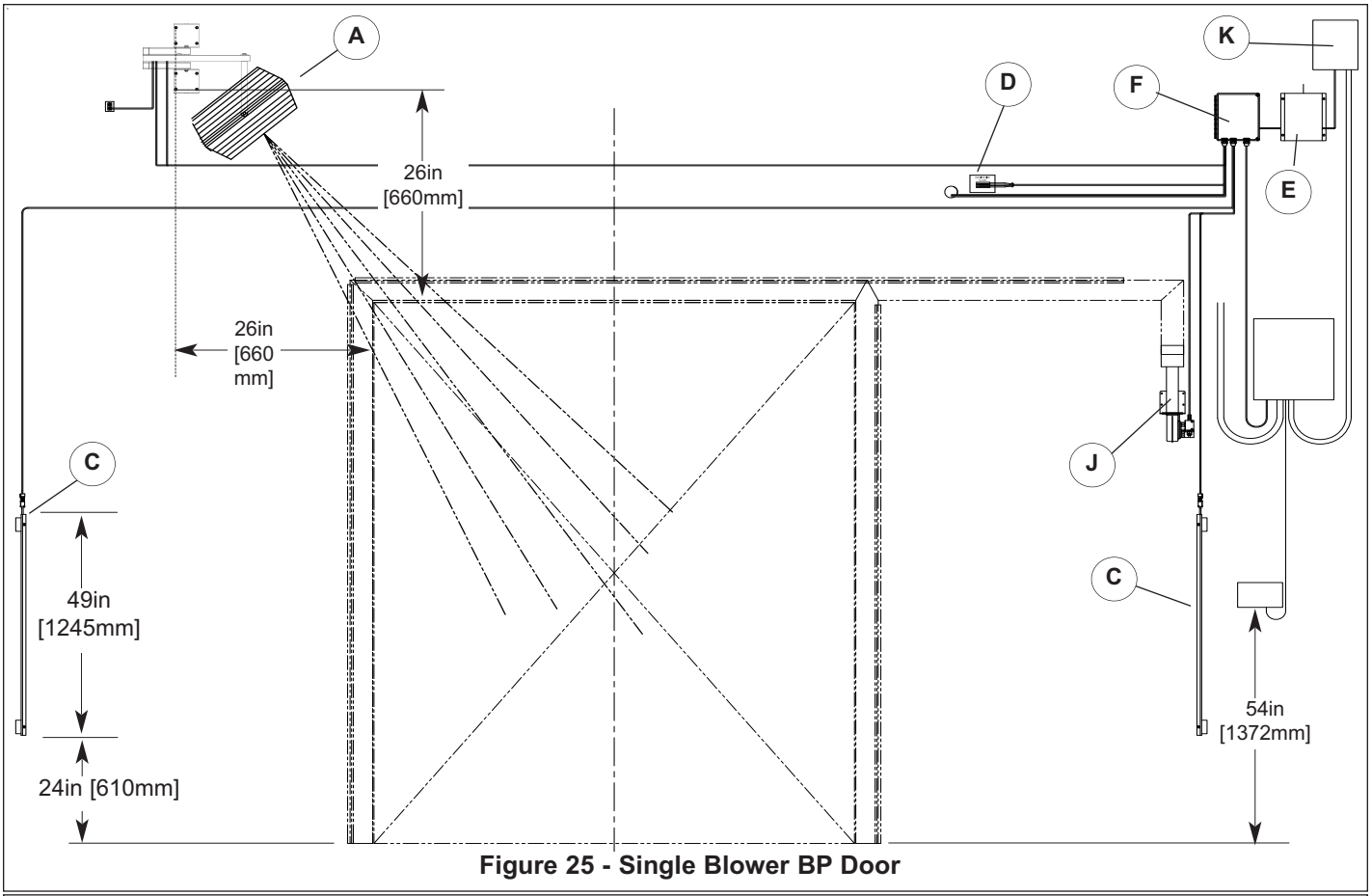


Figure 25 - Single Blower BP Door

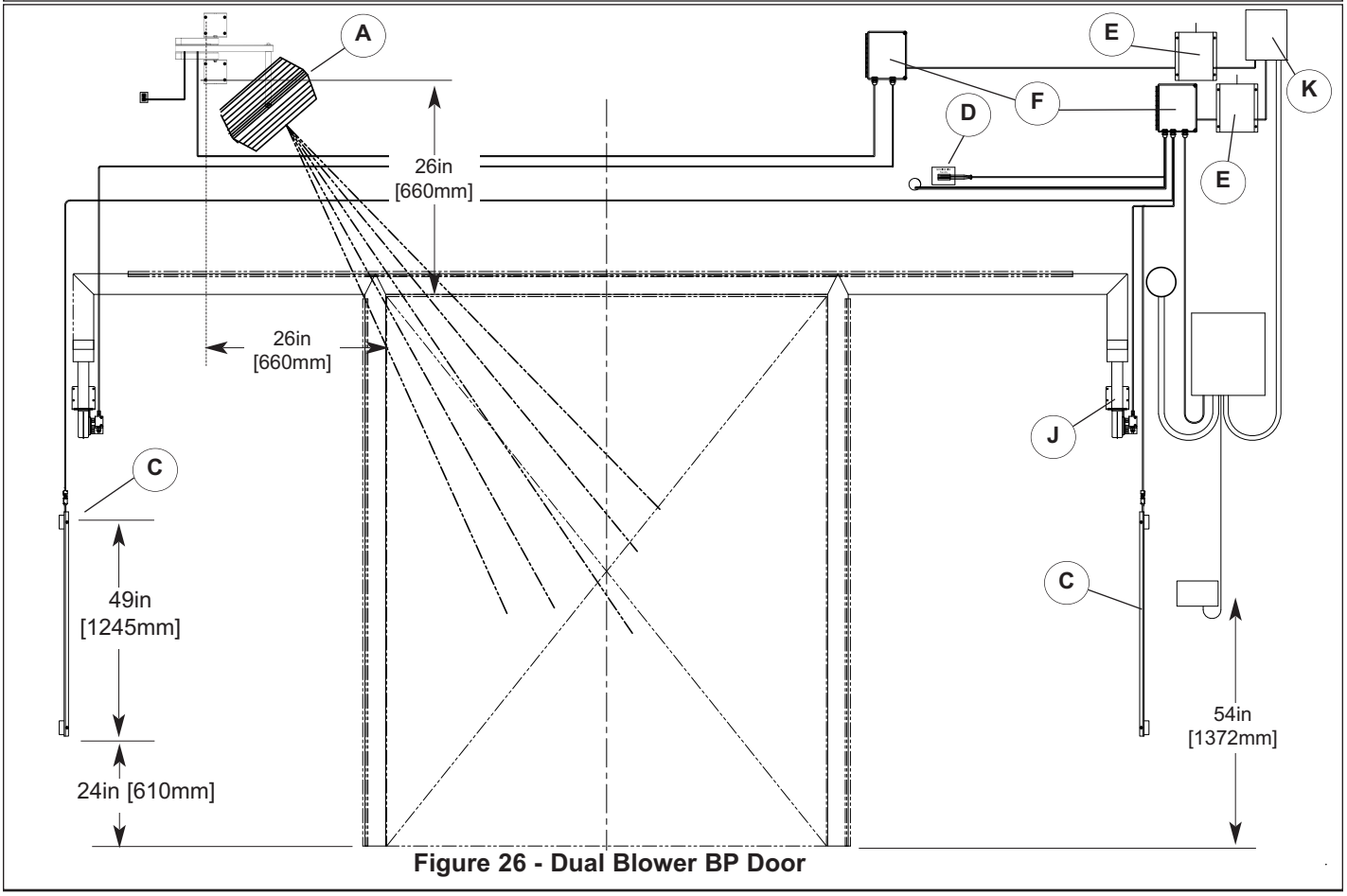


Figure 26 - Dual Blower BP Door

ELECTRICAL LAYOUT BLOWER - SS

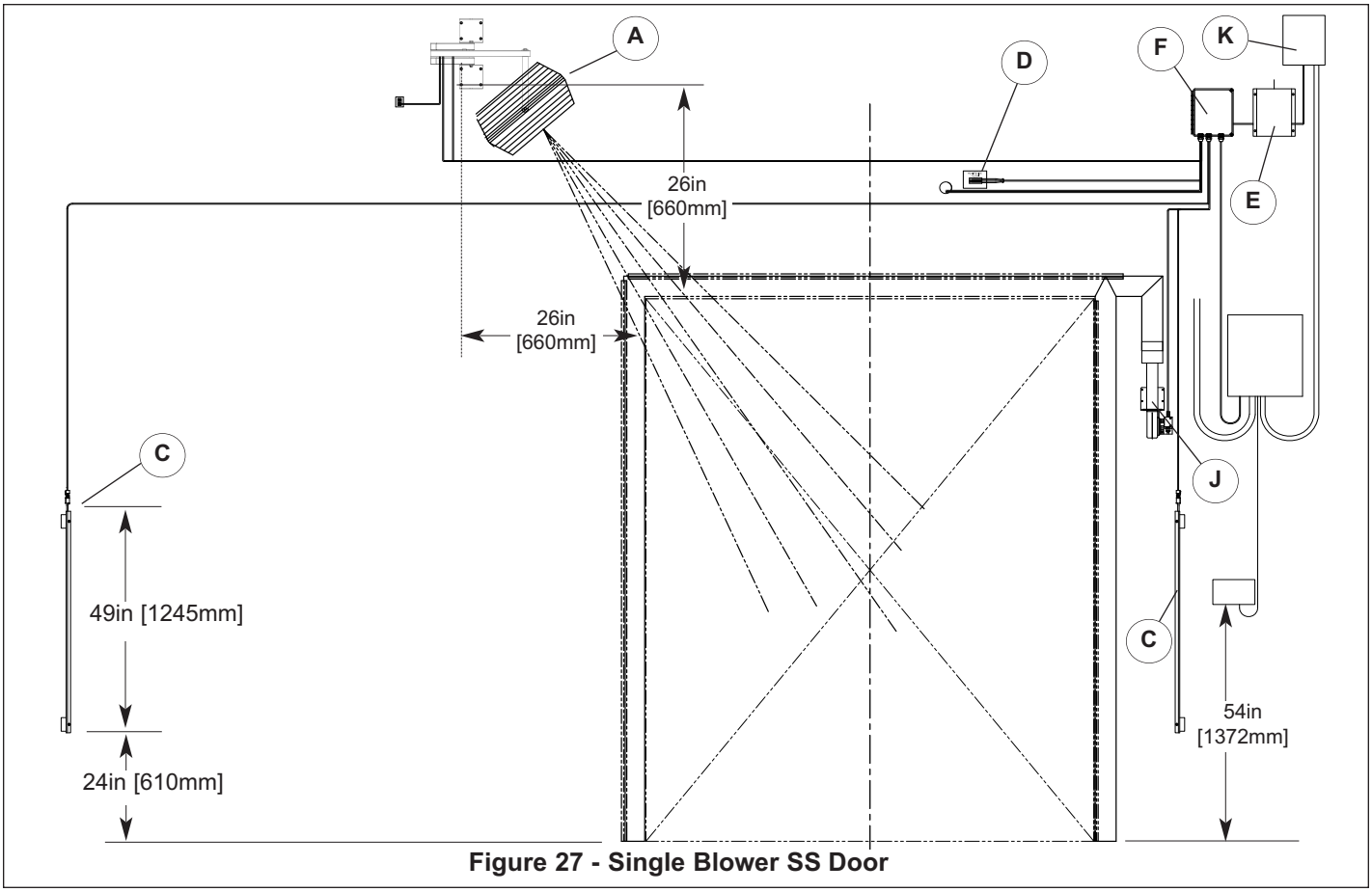


Figure 27 - Single Blower SS Door

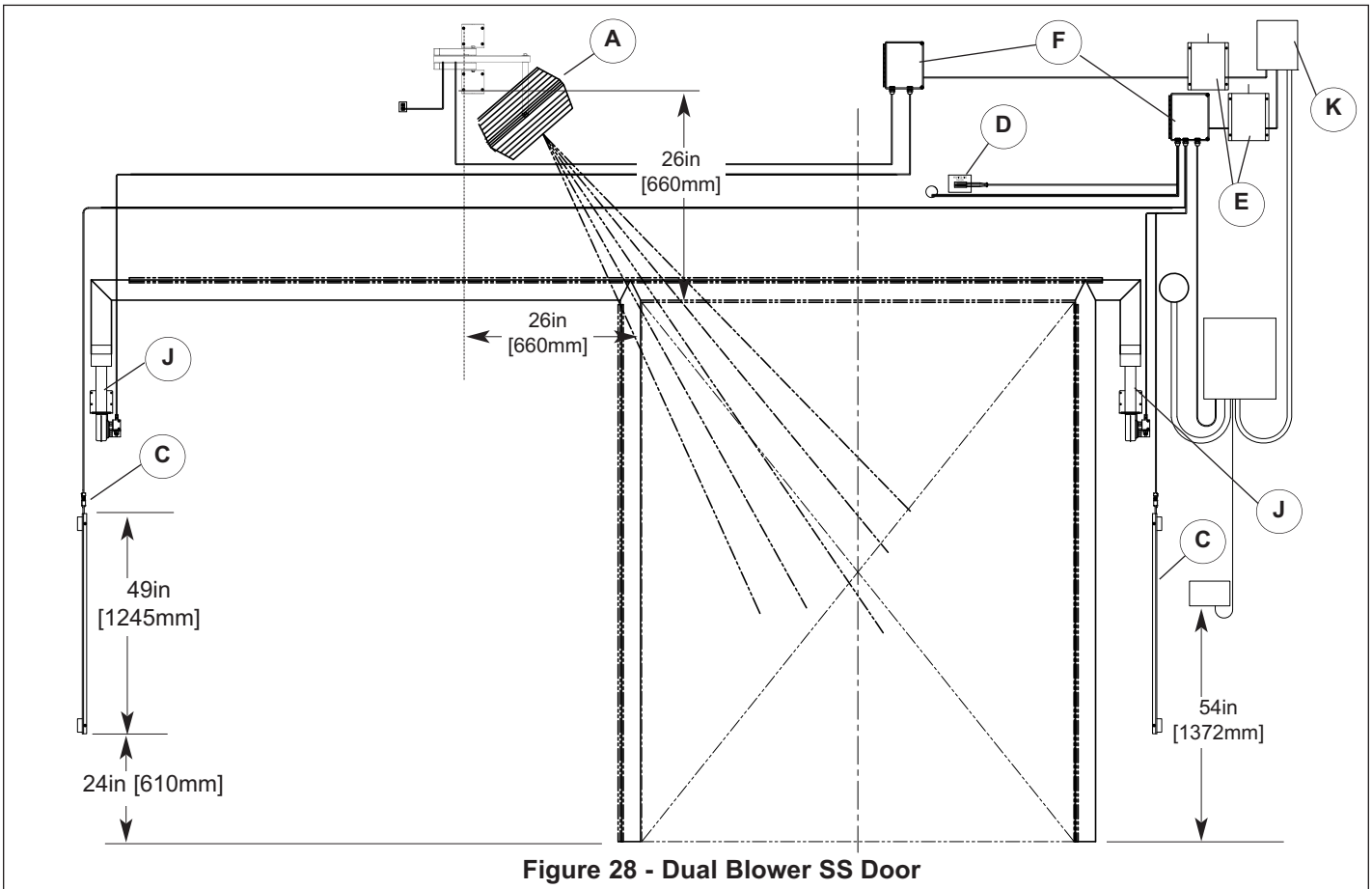


Figure 28 - Dual Blower SS Door

MAINTENANCE

RITE-HITE® DOORS PLANNED MAINTENANCE
Model 7100 BARRIER® GLIDER

CUSTOMER:	SO#	SERIAL#	DATE:

Periodic Cycle Check: Planned Maintenance	Recommended P.M. Intervals (Time Shown In Months)								Inspect and Perform the Following (See Manual)
	1	4	8	12	18	24	30	36	
Air Seal System		•		•		•		•	Make sure air flow thru the system is adequate. Air seal may require periodic cleaning.
Blower		•		•		•		•	Perform visual inspection.
Blower Heater		•		•		•		•	Check air temperature.
Door Fasteners		•		•		•		•	Perform visual inspection, check for proper width dimension and tighten all bolts.
Drive Chain		•		•		•		•	Lubricate, check tension and wear. Find the center bracket of the header C-Channel. Chain should be tensioned so there is 1/8in [3] between the bottom of the chain and the nylon wear pad.
Gearbox		•		•		•		•	Check lube, add if required.
Encoder		•		•		•		•	Check open and close positions.
Panel		•		•		•		•	Check for damage, repair any tears to prevent moisture or frost build-up. Make sure panel hanger bolts are tight.
Panel Nose and Bottom Seals				•		•		•	Check for proper sealing, and tears and repair.
Panel Retention System		•		•				•	Make sure spring, cord and rod are functional and panel is tight to the air seal, with no air leaks.
Torque Reversing Edge		•	•	•	•	•	•	•	Check that door reverses at the nose.
Trolley Rollers		•		•		•		•	Inspect for wear or binding.

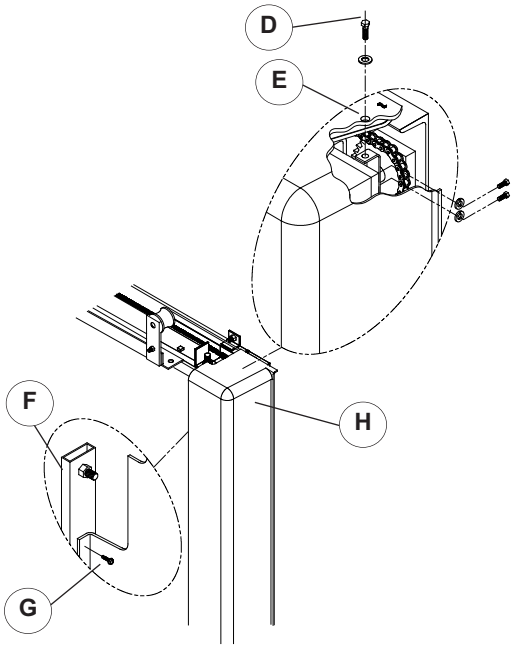


Figure 29

DRIVE SHROUD

Install optional drive shroud after installation and adjustments are complete.

1. Remove 1/4 in [M6] hex head bolt (D) and flat washer. Lift and install shroud and refasten to hole in angle on gearbox (E).
2. Fasten to the support post (F), using two #14 x 1 in [25 mm] hex head self drill/tap screws (G).
3. Use caution not to pinch air seal when installing shroud.
4. Shroud will have 1 1/2 in [38 mm] gap (H) on backside for air flow

FINAL CHECKLIST

NOTE:

After the door installation is complete, the following MUST BE confirmed before the door is ready for operation.

ACTIVATION DEVICE INSTALLATION

1. Proceed to install activation devices and verify operation.
2. Normal settings are set to auto-reclose. Once the open button is pressed, the door will open, time out per the setting of the re-close timer on the GUI and close.
3. The door can be equipped with several types of activation devices that can open or close the door and can be setup to either auto-reclose or toggle mode.
4. For toggle mode, the door can be setup such that if a device is used to open the door, it or another device needs to be reactivated to close the door.

NOTE: Electrical prints included in the parts or control box, supersede any prints included in this owner's manual on Page 31-39. Always check parts or control box for prints.

Verify Operation of Controls (Monthly)

The door operations are controlled by a Universal Controller (i COMM) and Graphic User Interface (GUI). The controller is set-up and programmed during testing at the factory. Only Rite-Hite authorized service technicians should change the programming.

1. To quickly determine if the door is ready to operate:

a. Open the control box

b. Look at the row of (X) green Input LED's on the i-COMM and the label to verify proper state per i-COMM chart on ***page 23.***

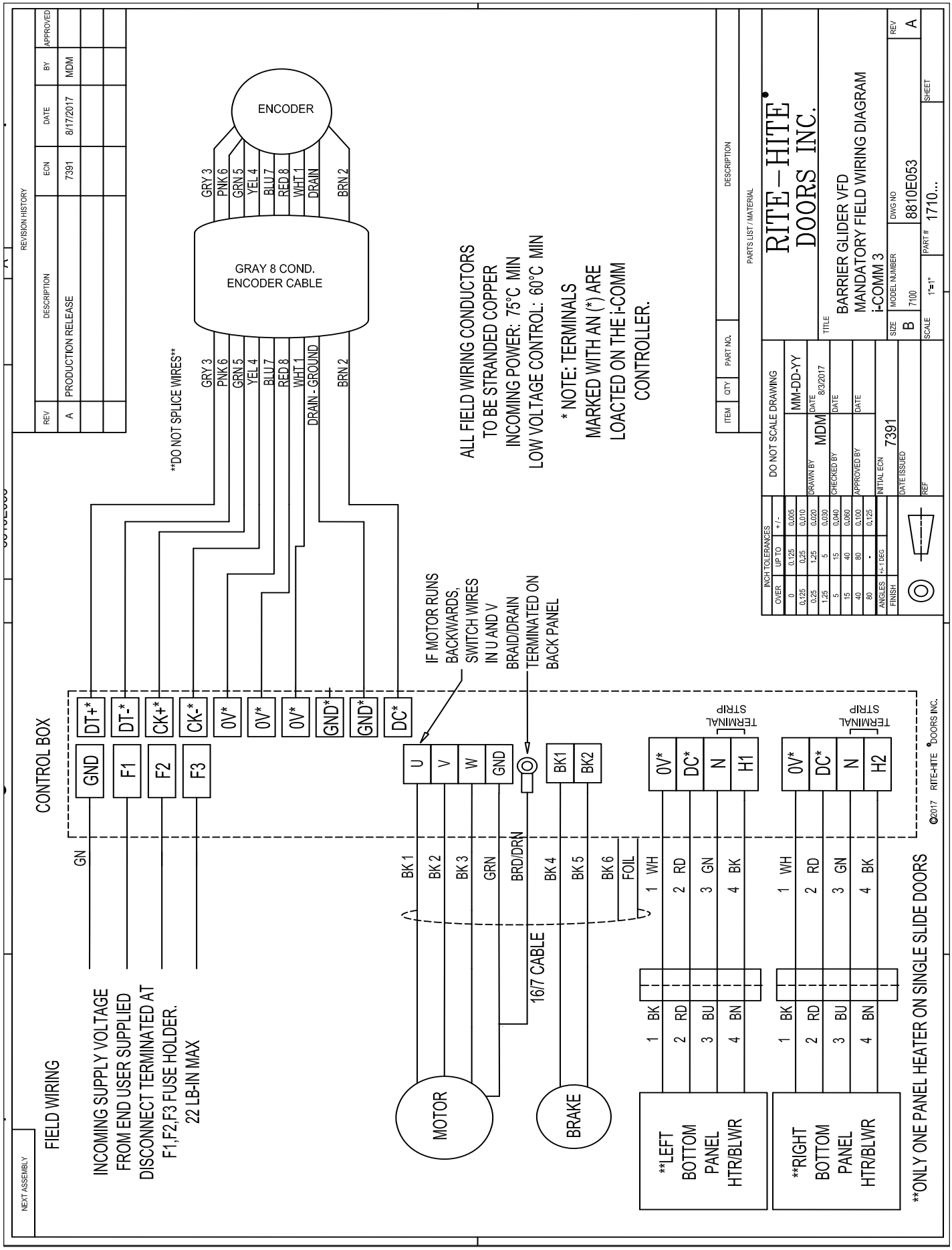
2. Are loose wires secured away from moving parts?
3. With the power on, press the "OPEN" button, the door should open and close automatically after a short delay. To adjust the amount of door open time, the setting must be changed in the GUI.
4. Operate and observe the door opening to make sure that it fully opens. Observe the closing action to make sure that the door operates smoothly and fully closes.
5. If it is necessary to adjust either position, refer to i-COMM 3 Installation/Service Manual.
6. Using end user material handling equipment, approach door slowly and verify that all the activation devices that are being used are operating properly. DO NOT attempt to drive through a door that is in a fault.
7. Use caution (honk horn) and look in all directions when approaching a door that is closing and ensure that the door will reverse before proceeding.
8. Advise pedestrians to use man doors if present and not to lean into the door way.

Complete	N/A	Description
		Conduit mounting location (must be on the bottom)
		Ground or shield wires properly terminated
		Support posts properly fastened to the floor
		Header shimmed properly
		Proper mounting fasteners used
		Poly lumber properly installed (Optional)
		Bottom seal compression 1/4 – 3/8in [6-9mm] to floor. Air exhausting thru hole
		Aluminum seal retainer caulked
		Air seal tight to the floor, twist free, exhaust hole free and open
		Air seal blower properly mounted
		Panel fans properly installed
		Panel hanger bolts / nuts tightened
		Tension applied to spring to maintain 3 1/2in]89 mm] from panel to wall
		Panel blower/heater cables wrapped around panel bolts and secured
		Step-down transformer and junction box properly installed
		Retention system operating freely
		Area clean of debris from installation
		Notes: _____

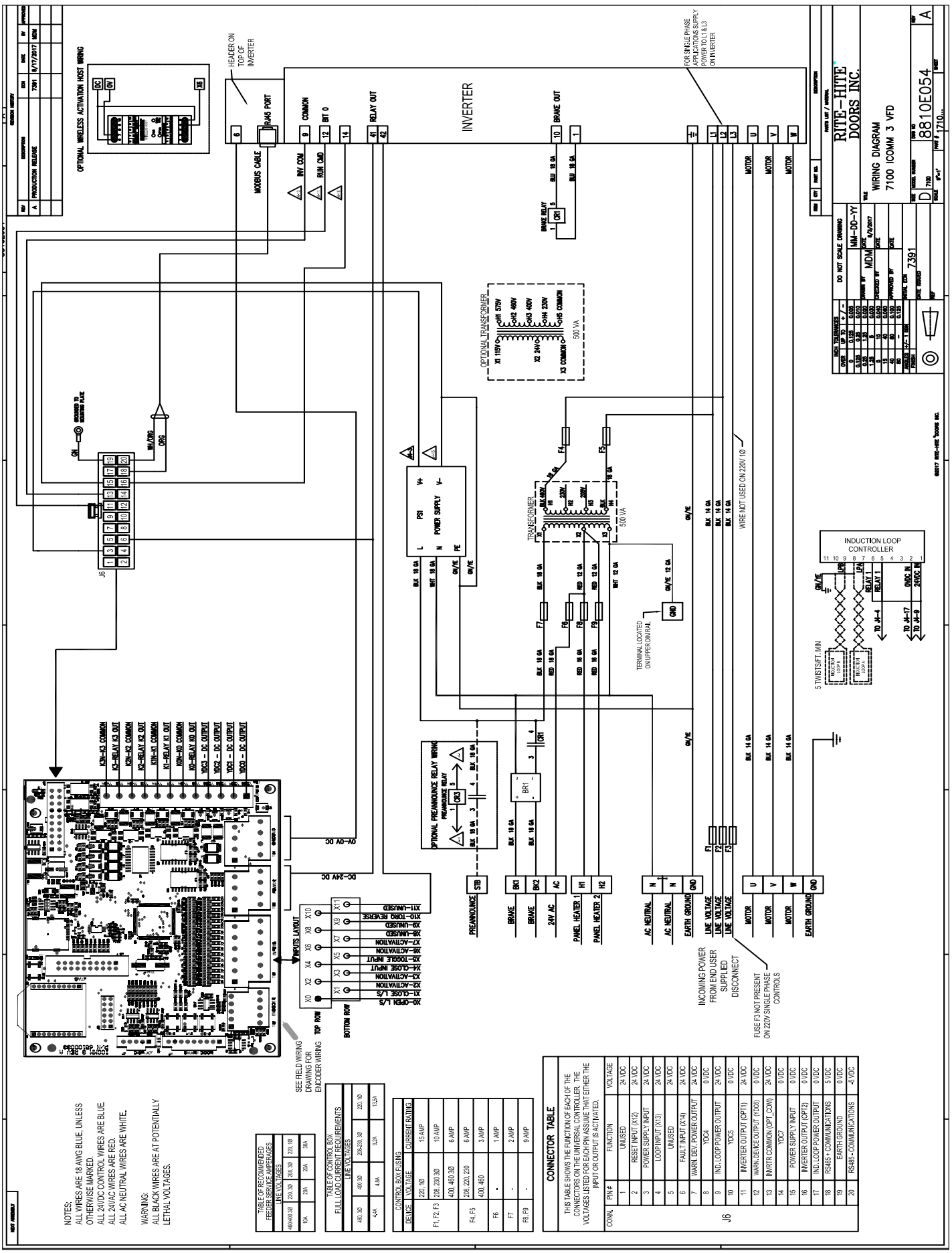
TROUBLESHOOTING

	ITEM FUNCTION
Activation Devices	Make sure all devices fully opens and closes the door after the re-close timer has expired. If you have wired the devices in toggle mode, operate the device twice to verify that the door will open and close with an activation. All activation devices use a set of normally open contacts, refer to ***Page 34***.
Brake	If the brake is not functioning properly, check the following: a) Check F7 fuse, replace if needed. b) Brake wiring at terminals BK1 & BK2 and plug connections. c) The brake rectifier should have 120VAC (~ / ~) incoming and outgoing 90-110VDC (+/-). d) Brake will have 290 ohms on normal readings. (must be checked after the rectifier).
Control Box	The control box is a fuse protected NEMA 4X. Voltages can be 208V, 230V, 400V, 460V, and 575V 3-phase or 220 single phase.
Door Operation and Controls	The door operations are controlled by an i-COMM Universal Controller. The i-COMM is set-up and programmed during testing at the factory. Unless you are a RITE-HITE DOORS, INC. authorized service technician, you should not attempt to change the factory set program. A quick way of determining that the door is ready to operate normally is to open the control box and look for the green LED lights to be ON at the X_ inputs and the Y_ outputs. Refer to the Input/Output logic table located on ***Page 23*** of this manual. If the door fails to function, contact your local representative.
Drive Chain	Make sure the drive chain is kept taught, but not so tight as to place stress on the shaft, sprocket or tensioner.
Drive Side Switch	To switch drive sides, a new header is required.
Encoder	**THE ENCODER CABLE SHOULD NEVER BE SPLICED OR EXTENDED.** a) If curtain is not stopping at the same position, make sure encoder cable is grounded. b) Verify encoder chain is operating properly and sprocket set screws are tight to shafts.
F1, F2, F3 Fuses	F1, F2, F3 Fuses are fuses for the incoming power and they protect the inverter, motor and the entire control box. See electrical wiring diagram for fuse sizes.
F4, F5	Fuses for primary side of transformer.
F6	24VAC Fuse from secondary side of transformer that supplies terminal AC.
F7	120VAC Fuse from secondary side of transformer that supplies bridge rectifier and power supply.
F8, F9	7 Amp slow blow glass fuses for the Panel Heater.
Graphical User Interface	A digital display that shows the cycles, status and position of the door at any time during its travel. For input and output function signals, refer to chart on ***Page 23.*** Settings can be changed for re-close or pre-announce timers, interlocks, special activation commands, among many others. Refer to instructional manual for details.
i-COMM Controller™	The i-COMM controller is a circuit board that controls the actions of the door.
Motor	Ohms for the following motor voltages. The motor is AC. a) 230V ~ 11 Ohms, 460V ~ 21.5 Ohms.
Motor Phasing	If command to open door is given and the door closes, check the following: a) Phasing is reversed, reverse wires in terminals, U and V.
Motor will not run	If door will run will given an activation, check the following: a) Check voltage and for loose wires at terminals, U, V, and W.
Panel	The panel is a 3in [76mm] flexible panel. Repair any tears to prevent foreign matter buildup and temperature loss.
Panel Blower/Heater	Panel Blower/Heater provides warm air to keep the bottom seals warm and dry. Entire unit must be replaced if blower or heater goes bad. Verify F8 & F9 fuses.
Panel Retention System	The panels are held against the Perimeter Air Seal by a cord that is spring loaded on the panel and slides on a rod along the wall. When impacted, the panel swings out and back toward the perimeter seal when the impact object is removed.
Panel Reversing System	When the panels impact an object in the opening, the door will reverse and go open. This should be set so as not to damage any product or personnel that may be in the opening.
Power Supply	Powered by 120VAC from the F7 fuse and converts to 24VDC to the i-comm.
Relay CR3	Single pole 24VDC relay is required when the pre-announce option is chosen.
Thermal Air Sealing System	The Thermal Air Sealing System provides a seal between the panel and the wall by utilizing a 110VAC blower/heater system to provide heated air to fill the seal. Power to blower must be separate and not tied into control box. Power to the blower must be constant. Make sure air exhaust hole is free of obstructions, blockage my cause frost buildup. Repair any tears or replace as necessary.
Trolley	To remove trolleys or replace rollers, remove the bottom plates and pull off.
Transformer	The standard transformer is a tri-volt transformer that takes an incoming voltage of 208V, 230V and 460V and converts it to 110VAC and 24VAC. A transformer is also available for 400V & 575V doors. a) 208V (Taps H1-H2) 6.8 Ohms b) 230V (Taps H1-H3) 7.5 Ohms c) 380V (Taps H1-H2) 18.4 Ohms d) 460V (Taps H1-H4) 27 Ohms e) 415V (Taps H1-H3) 20.5 Ohms f) 575V (Taps H1-H4) 29 Ohms g) 120V (Taps X1-X3) 4.4-4.8 Ohms h) 24V (Taps X1-X2) .4 to .6 Ohms
Voltage Switch	To change the voltage, see steps below: a) Change transformer taps and fuses per electrical diagram. b) Change motor wiring per junction box diagram. c) Replace Inverter and brake resistor with proper voltage. d) Change voltage selection on GUI. e) If changing to or from 400 or 575V, a new transformer and motor are also required.

FIELD WIRING DIAGRAM

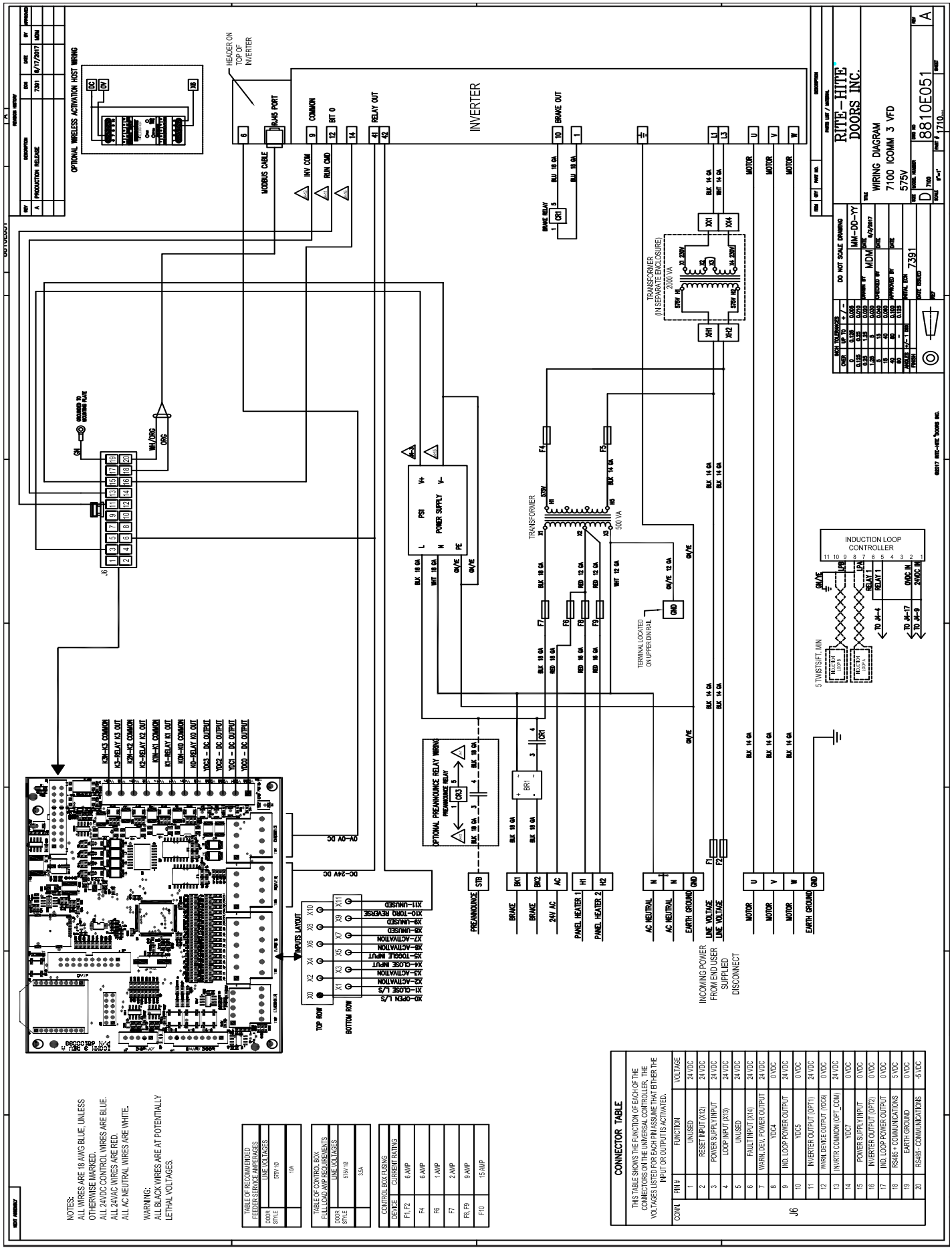


WIRING DIAGRAM 230 - 460V



CONN.	PIN#	FUNCTION	VOLTAGE
J6	1	UNUSED	24 VDC
	2	RESET INPUT (X12)	24 VDC
	3	POWER SUPPLY INPUT	24 VDC
	4	LOOP INPUT (X13)	24 VDC
	5	UNUSED	24 VDC
	6	FAULT INPUT (X14)	24 VDC
	7	WARN./DEV. POWER OUTPUT	24 VDC
	8	YDC4	0 VDC
	9	IND. LOOP POWER OUTPUT	24 VDC
	10	YDC5	0 VDC
	11	INVERTER OUTPUT (OPT1)	24 VDC
	12	WARN./DEVICE OUTPUT (YDC6)	0 VDC
	13	INVRTR COMMON (OPT_COM)	24 VDC
	14	YDC7	0 VDC
	15	POWER SUPPLY INPUT	0 VDC
	16	INVERTER OUTPUT (OPT2)	0 VDC
	17	IND. LOOP POWER OUTPUT	0 VDC
	18	RS485 + COMMUNICATIONS	5 VDC
	19	EARTH GROUND	0 VDC
	20	RS485 - COMMUNICATIONS	-5 VDC

WIRING DIAGRAM - 575V



NOTES:
ALL WIRES ARE 18 AWG BLUE, UNLESS OTHERWISE MARKED.
ALL 24VDC CONTROL WIRES ARE BLUE.
ALL 24VAC WIRES ARE RED.
ALL AC NEUTRAL WIRES ARE WHITE.

WARNING:
ALL BLACK WIRES ARE AT POTENTIALLY LETHAL VOLTAGES.

TABLE OF RECOMMENDED FEEDER SERVICE AMPERAGES	
DOOR STYLE	LINE VOLTAGES
	575V /3
	10A

TABLE OF CONTROL BOX FULL LOAD AMP REQUIREMENTS	
DOOR STYLE	LINE VOLTAGES
	575V /3
	3.5A

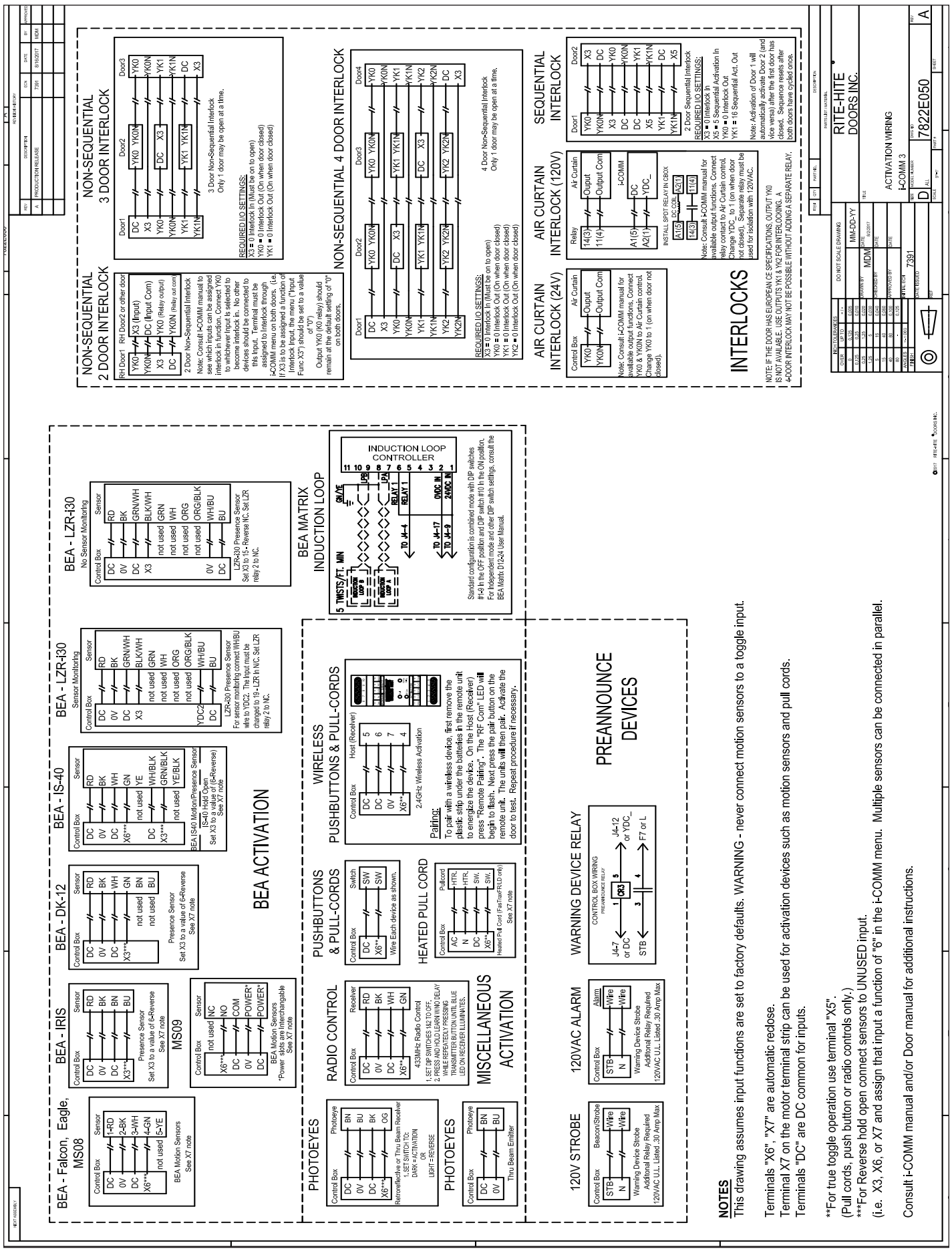
CONTROL BOX FUSING	
DEVICE	CURRENT RATING
F1, F2	6 AMP
F4	6 AMP
F6	1 AMP
F7	2 AMP
F8, F9	9 AMP
F10	15 AMP

CONNECTOR TABLE

THIS TABLE SHOWS THE FUNCTION OF EACH OF THE CONNECTORS ON THE UNIVERSAL CONTROLLER, THE VOLTAGES LISTED FOR EACH PIN ASSUME THAT EITHER THE INPUT OR OUTPUT IS ACTIVATED.

CONN.	PIN #	FUNCTION	VOLTAGE
J6	1	UNUSED	24 VDC
	2	RESET INPUT (X12)	24 VDC
	3	POWER SUPPLY INPUT	24 VDC
	4	LOOP INPUT (X13)	24 VDC
	5	UNUSED	24 VDC
	6	FAULT INPUT (X14)	24 VDC
	7	WARN, DEV, POWER OUTPUT	24 VDC
	8	YDC4	0 VDC
	9	IND, LOOP POWER OUTPUT	24 VDC
	10	YDC5	0 VDC
	11	INVERTER OUTPUT (OPT1)	24 VDC
	12	WARN, DEVICE OUTPUT (YDC6)	0 VDC
	13	INVRTR COMMON (OPT_COM)	24 VDC
	14	YDC7	0 VDC
	15	POWER SUPPLY INPUT	0 VDC
	16	INVERTER OUTPUT (OPT2)	0 VDC
	17	IND, LOOP POWER OUTPUT	0 VDC
	18	RS485 + COMMUNICATIONS	5 VDC
	19	EARTH GROUND	0 VDC
	20	RS485 - COMMUNICATIONS	-5 VDC

ACTIVATION WIRING



NOTES

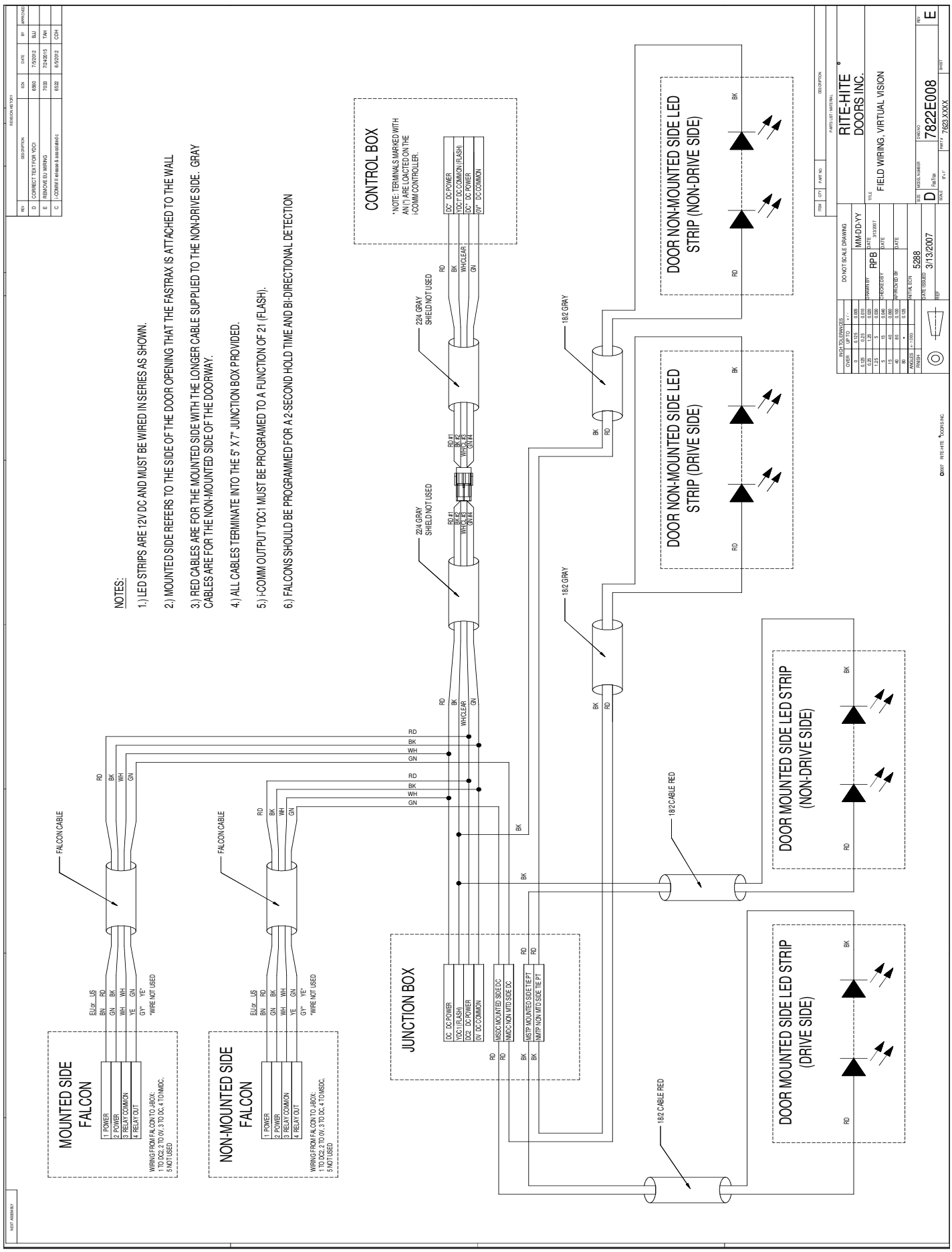
This drawing assumes input functions are set to factory defaults. WARNING - never connect motion sensors to a toggle input.

Terminals "X6" , "X7" are automatic reclose.
Terminal X7 on the motor terminal strip can be used for activation devices such as motion sensors and pull cords.
Terminals "DC" are DC common for inputs.

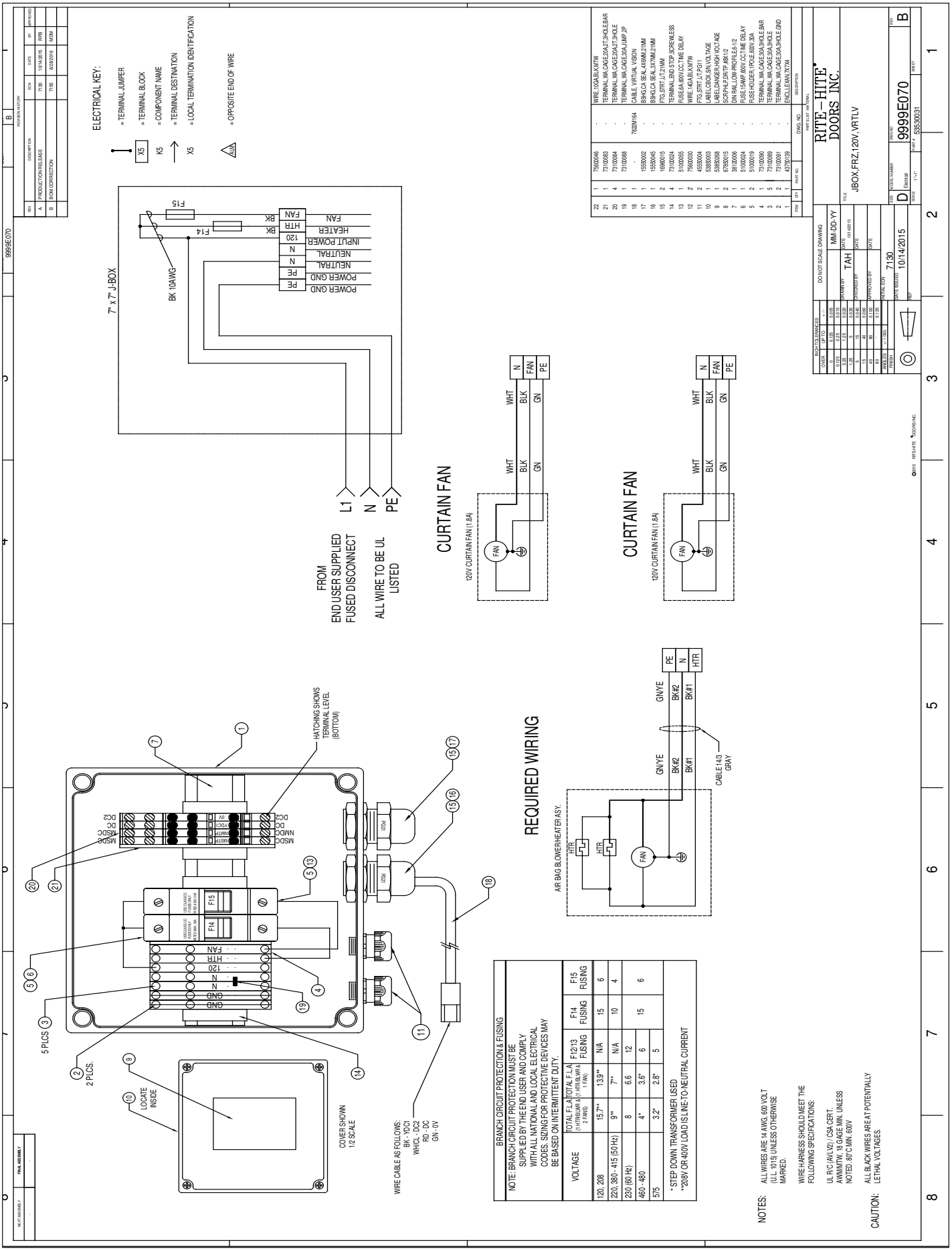
**For true toggle operation use terminal "X5".
(Pull cords, push button or radio controls only.)
***For Reverse hold open connect sensors to UNUSED input.
(i.e. X3, X6, or X7 and assign that input a function of "6" in the i-COMM menu. Multiple sensors can be connected in parallel.

Consult i-COMM manual and/or Door manual for additional instructions.

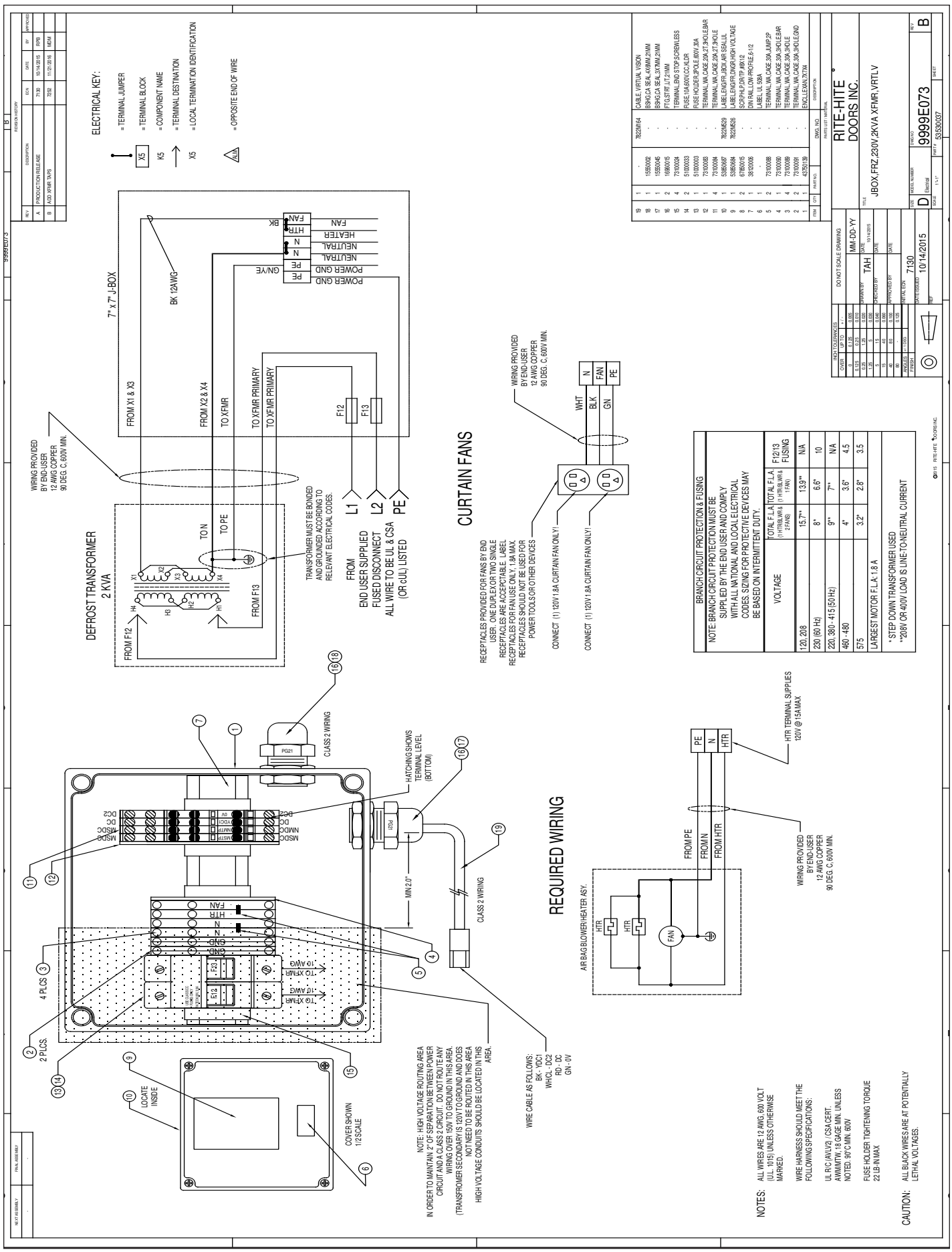
VIRTUAL VISION ELECTRICAL WIRING



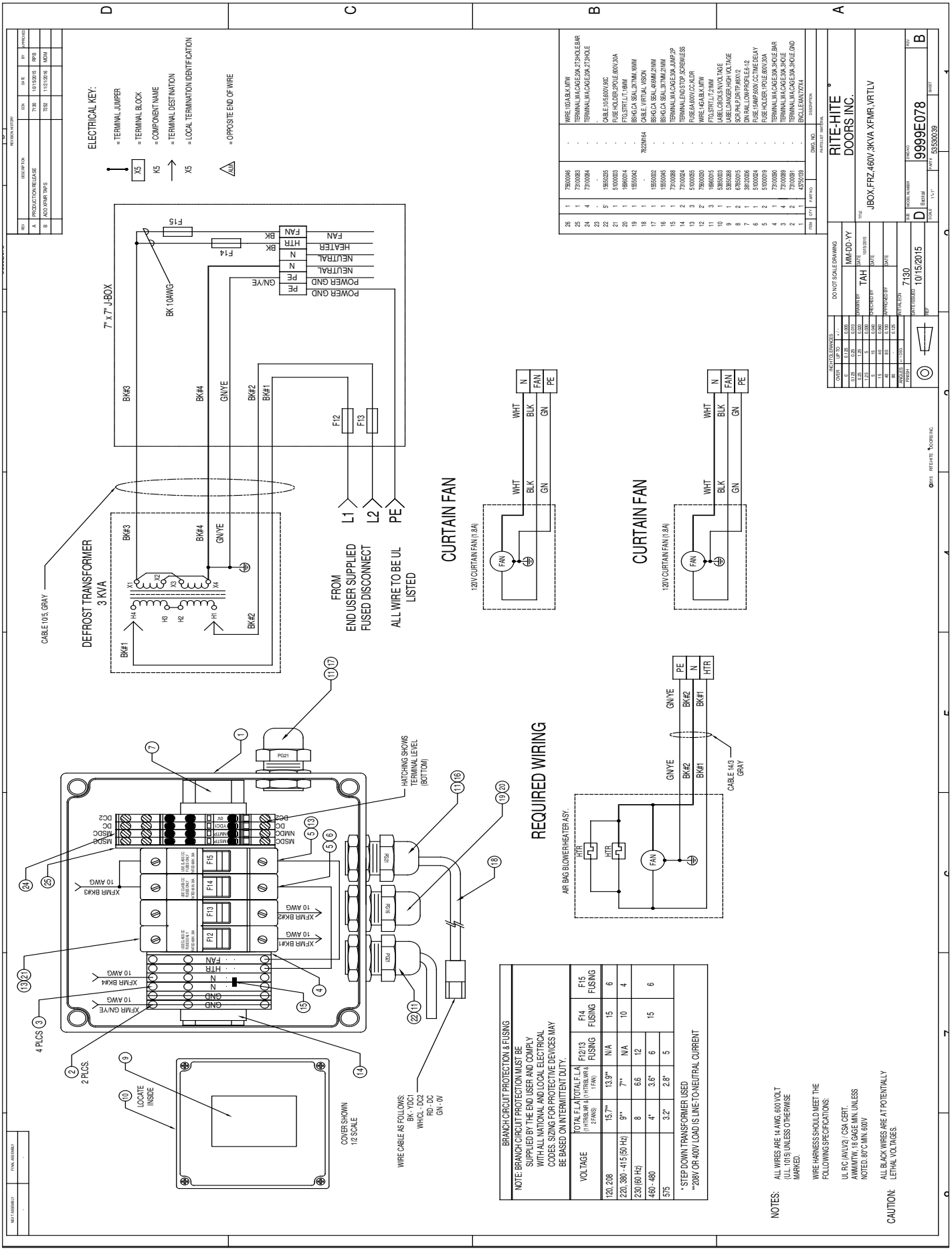
JUNCTION BOX 120V VIRTUAL VISION



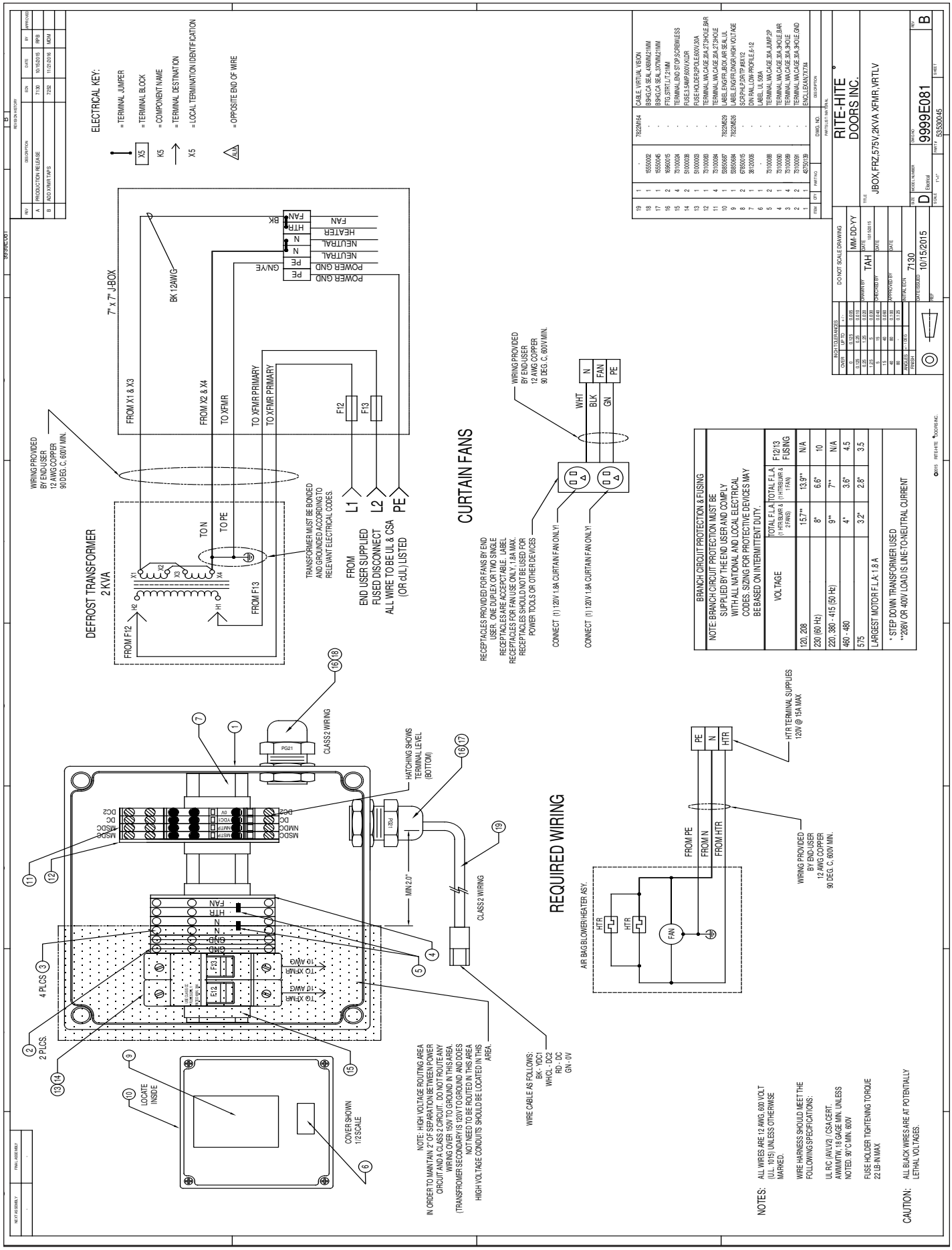
JUNCTION BOX 230V 2KVA TRANSFORMER / VIRTUAL VISION



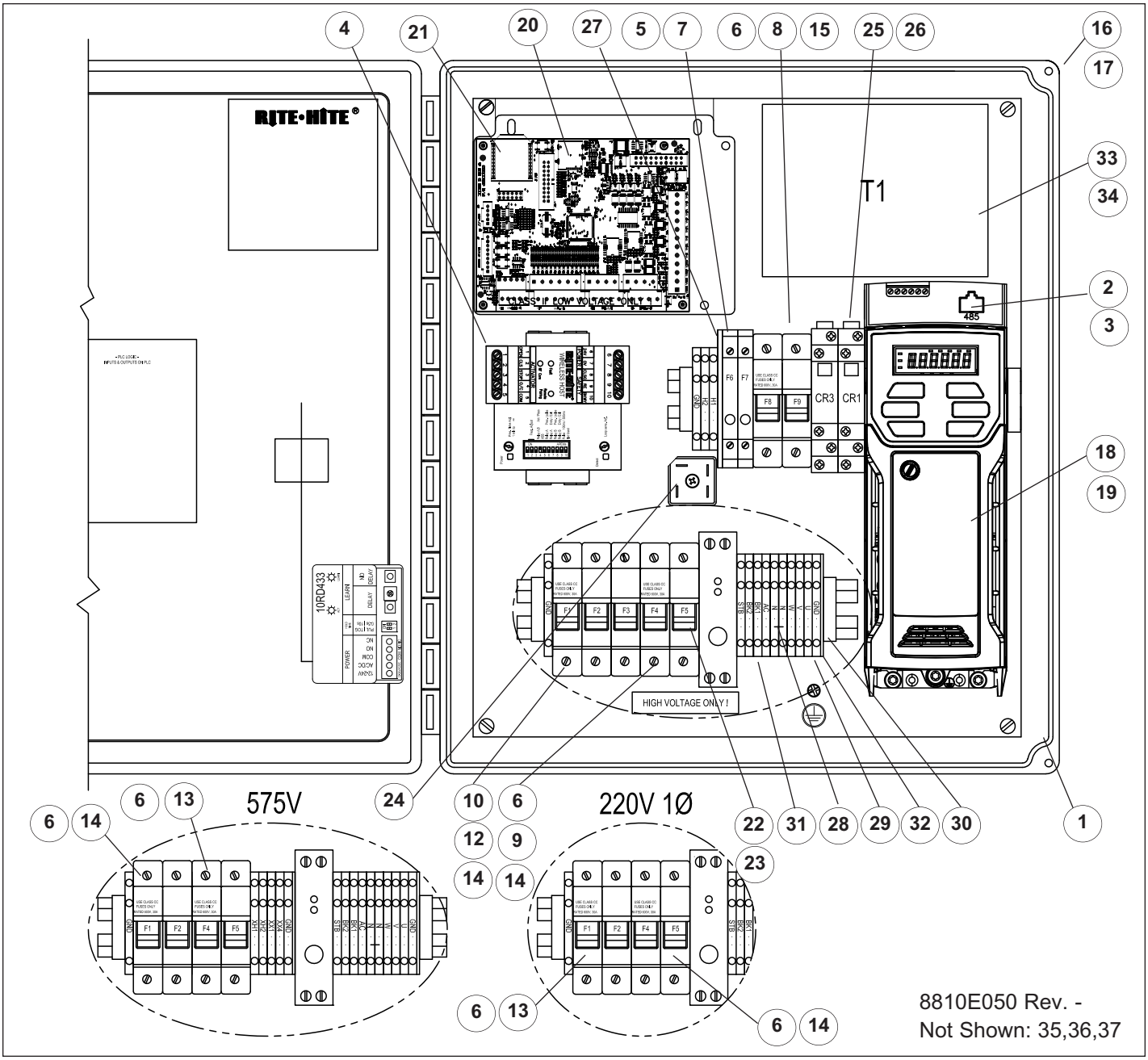
JUNCTION BOX 460V 3KVA TRANSFORMER / VIRTUAL VISION



JUNCTION BOX 575V 2KVA TRANSFORMER / VIRTUAL VISION



CONTROL BOX SERVICE PARTS



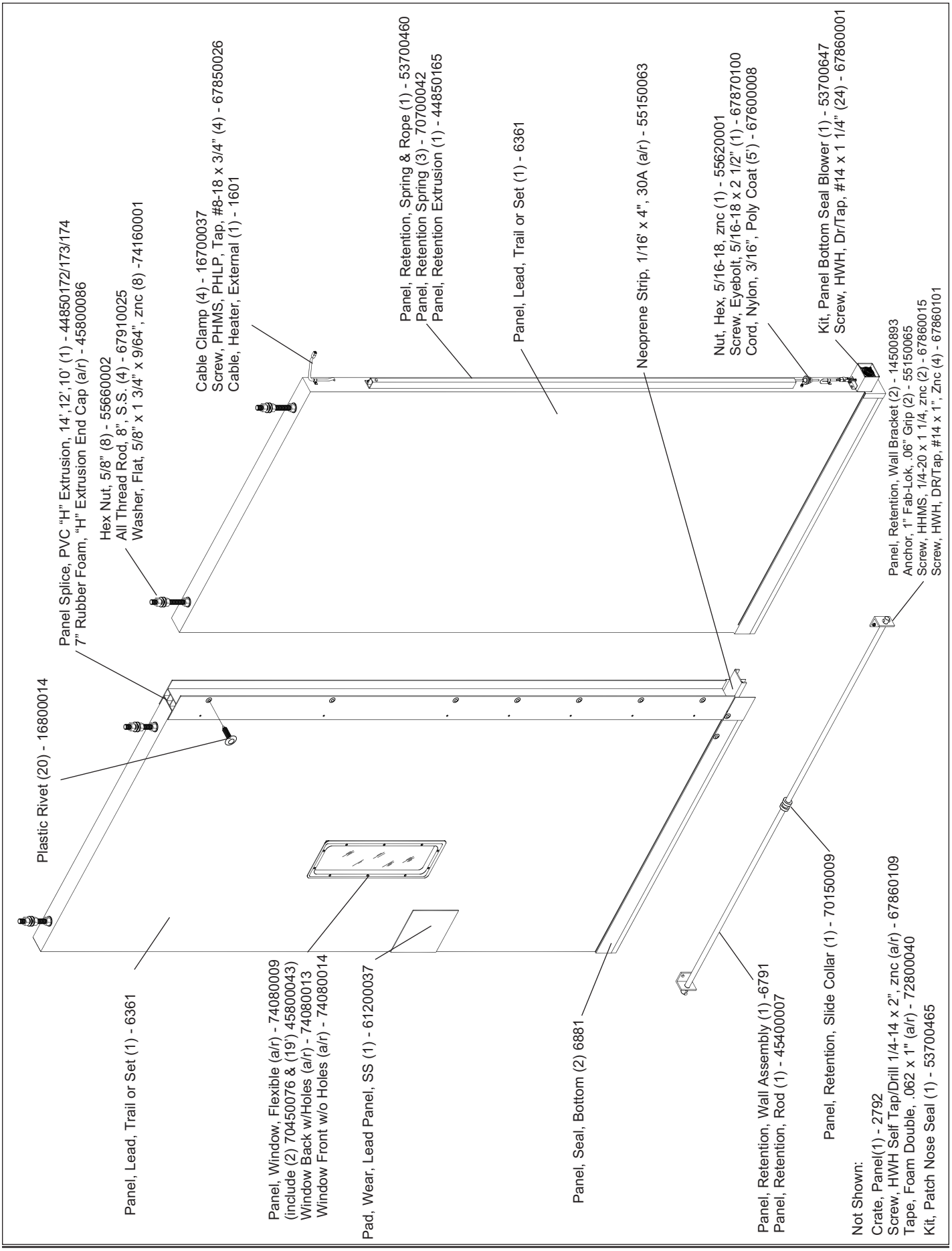
ITEM	QTY	DESCRIPTION	PART #
1	1	Control Box Assembly, 7100, i-COMM 3	1710
2	1	Adapter, RS-485,M Series	10300019
3	1	Cable, Inverter, 24/4 UTP	15650290
4	1	Controller, Wireless Act, BTR, 12-24V	17500025
5	1/2	Fuse 1A 250V Time Delay (30W PS)	51000002
6	1/2	Fuse Holder Double Pole, 600V, 30A	51000003
7	2	Fuse Holder Single Pole, 300V, 12A	51000004
8	0/1	Fuse 2A 250V Time Delay (60W PS)	51000005
9	0/1	Fuse 3A 600V Time Delay (400/460V)	51000008
10	1	Fuse Holder, 3 Pole, 600V, 30A (460V)	51000013
11	-		
12	3	Fuse 10A 600V, CC, KLDR (208/230V)	51000033
13	1/2	Fuse 15A 600V, CC, KLDR (220/575V)	51000051
14	3/5	Fuse 6A 600V,CC,KLDR	51000055
15	2	Fuse 9A 600V,CC,KLDR	51000064
16	4	Enclosure, Mounting Foot	51950018
17	2	Latch, Quick Release, Kit, Fiberglass	51950021
18	1	Kit, Inverter, 2HP, 230V,1-3PH, M200	53701041
19	1	Kit, Inverter, 2HP, 460V, 3PH, M200	53701042
20	1	Kit, Controller, i-COMM 3, Replacement	53701043
21	1	Wireless Interlock Radio	55150354

ITEM	QTY	DESCRIPTION	PART #
22	1	Power Supply, 24VDC, 30W, CG (VV-no, LZR <2)	65700007
23	1	Power Supply, 24VDC, 60W, CG (VV-yes, LZR >1)	65700012
24	1	Rectifier, Bridge, 35A, 600V	66270006
25	1/2	Relay SPDT 10Amp 24VDC (Strobe/Beacon)	66450014
26	1/2	Relay Socket, Single Pole 10 Amp 250V	70350002
27	1	Terminal End Barrier, Fuse Holder	73100019
28	11/15	Terminal, PX, Cage, 24A, 3 Hole	73100096
29	3/4	Terminal, PX, Cage, 3 Hole, Gnd	73100097
30	4	Terminal, PX, End Stop Screwless	73100098
31	1	Terminal, PX, Cage, 24A, Jump, 2P	73100099
32	2/3	Terminal, PX, Cage, 3 Hole, Bar	73100101
33	1	XFMR,500VA, 208/230/460V:24/120	73550031
34	1	XFMR,500VA, 230/400/460/575V:24/120	73550032
35	1	Cagle, GUI, 50'	15650343
36	1	Module, Network, Wifi, USB, GUI	51950106
37	1	GUI (Graphical User Interface)	56150353
		Refer to ***Page 41*** for Activation Parts List	

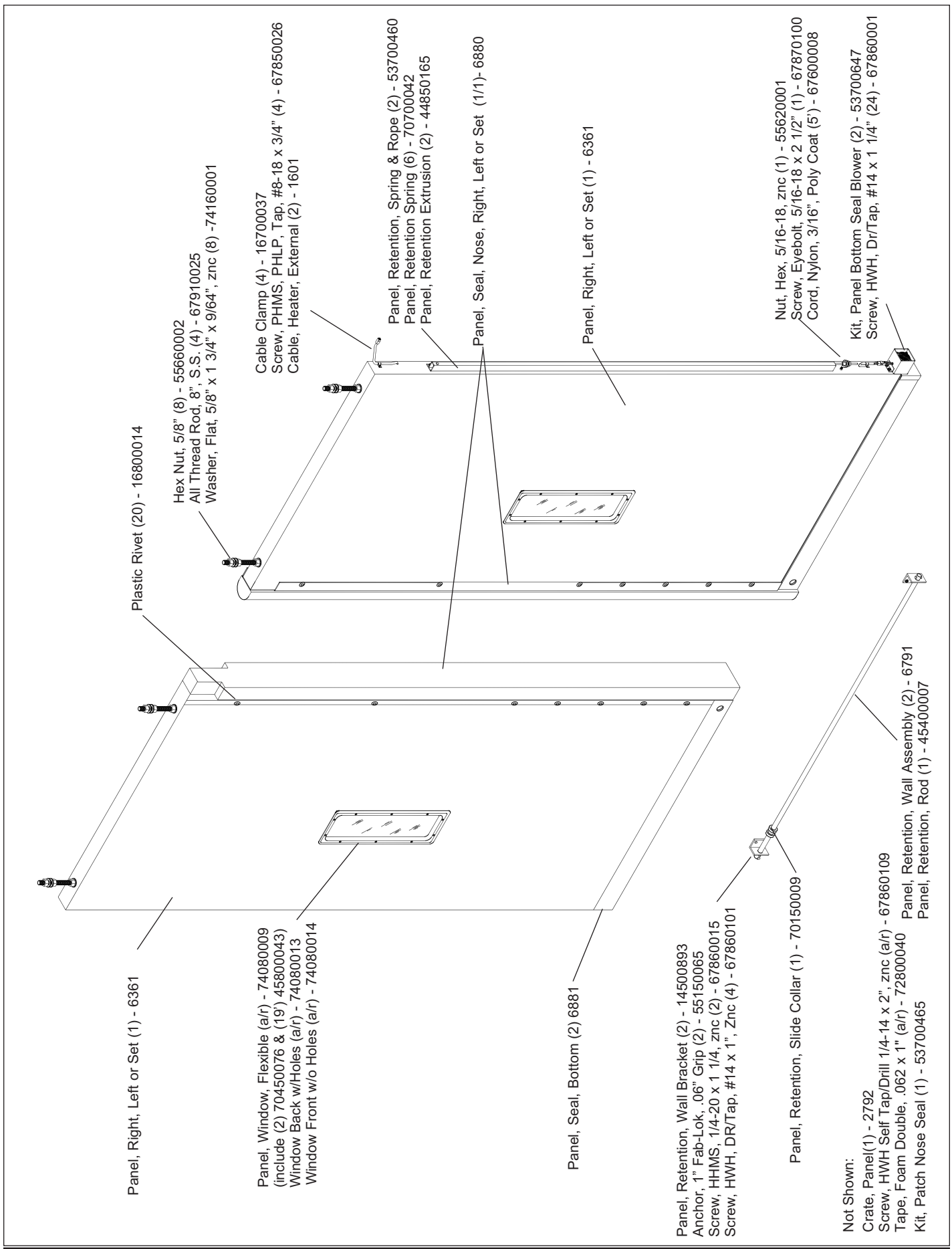
ACTIVATION SERVICE PARTS

#	Part #	Description	5700	7100	8000	8600	8900	FSTX	FSTXCL	FSTXFR	FSTXFRLD	FSTXXL	LTSPD	Split2nd
1	11050007	Alarm, Audible, 24AC/DC, 22.5 (I-Zone)	N	N	Y	N	Y	Y	Y	Y	Y	Y	Y	N
2	11050010	Alarm, Audible, 120VAC,10-TONE, AB	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N
3	17500025	Controller, Wireless, Act, BTR, 12-24V	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y
4	17500001	Induction Loop Board, 24VDC (<5/28/14)	N	Y	Y	Y	Y	Y	Y	Y	N	Y	N	N
5	17500010	Induction Loop Board, 12/24VDC (=>6/20/12)	N	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
6	52000037	Induction Loop Board Harness (<5/28/14)	N	Y	Y	Y	Y	Y	Y	Y	N	Y	N	N
7	52000056	Induction Loop Board Harness (=>6/20/12)	N	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
8	53700552	Induction Loop, Kit, Single (<5/28/14)	N	Y	Y	Y	Y	Y	Y	Y	N	Y	N	N
9	53700864	Induction Loop, Kit, Dual	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
10	55150279	i-COMM ii LCD Interface	N	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y
11	7622	I-Zone Kit	N	N	Y	N	Y	Y	N	Y	Y	Y	Y	N
12	7636	I-Zone Upgrade Kit, Non FasTrax	N	N	Y	N	Y	N	N	N	N	N	Y	N
13	7637	I-Zone Upgrade Kit, FasTrax	N	N	N	N	N	Y	N	Y	Y	Y	N	N
14	14500774	I-Zone Sensor Bracket Black	N	N	Y	N	Y	Y	N	Y	Y	Y	Y	N
15	14500775	I-Zone Sensor Bracket Gray	N	N	Y	N	Y	Y	N	Y	Y	Y	Y	N
16	14500783	I-Zone Sensor Bracket Stainless	N	N	Y	N	Y	Y	N	Y	Y	Y	Y	N
17	17900110	I-Zone Cover Gray	N	N	Y	N	Y	Y	N	Y	Y	Y	Y	N
18	17900111	I-Zone Cover Black	N	N	Y	N	Y	Y	N	Y	Y	Y	Y	N
19	17900112	I-Zone Cover Stainless	N	N	Y	N	Y	Y	N	Y	Y	Y	Y	N
20	14501212	Motion Sensor, Mounting Bracket	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
21	55200012	Motion Sensor, Remote Programmer	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
22	55200018	Motion Sensor, Falcon XL < 11.5'H	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
23	55200019	Motion Sensor, Falcon >= 11.5'H	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
24	55200021	Motion Sensor, IS40, 12-24V	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
25	55200022	Motion Sensor, LZRI30, 12-35VDC	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
26	55200026	Motion Sensor, MS09,Touchless, 12-24V	N	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
27	55200024	Motion Sensor, IS40XL, 12-24V	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
28	14500024	Photoeye Mounting Bracket	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
29	53700053	Photoeye, 24V, Kit, Thru-beam	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
30	53700122	Photoeye, 24V, Kit, Retroreflective	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
31	66400001	Photoeye, Reflector, 2 3/4" x 2"	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
32	63900002	Photoeye, Retro-Reflective 20-40VAC/10-55VDC	N	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y
33	69300004	Photoeye, Thru-beam Source 20-40VAC/10-55VDC	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
34	63900005	Photoeye, Thru-beam Receiver 20-40VAC/10-55VDC	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
35	63900048	Photoeye, Light Curtain, Receiver, (CE)	N	N	N	N	N	Y	N	Y	Y	N	N	N
36	63900049	Photoeye, Light Curtain, Transmitter, (CE)	N	N	N	N	N	Y	N	Y	Y	N	N	N
37	72700213	Pull Cord, Assembly, w/Bracket, Standard	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
38	72700214	Pull Cord, Assembly, w/Bracket, Heated	N	Y	Y	Y	Y	N	Y	Y	Y	N	N	N
39	72700270	Pull Cord, Wireless	N	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y
40	72700030	Push Button Station Single Green	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
41	72700102	Push Button Station, Open/E-Stop/Close, Nema 4X	N	N	N	N	N	N	N	Y	Y	N	Y	Y
42	72700269	Push Button, Single, Wireless	N	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y
43	66250020	Radio Control, RCVR, BEA, 433, 12-24V, 1 FN (=>8/26/14)	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
44	73750078	Radio Control, Trans, BEA, 433, 1 BTN (=>8/26/14)	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
45	73750079	Radio Control, Trans, BEA, 433, 2 BTN (=>8/26/14)	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
46	73750080	Radio Control, Trans, BEA, 433, 3 BTN (=>8/26/14)	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
47	11280002	Radio Control Ant w/15' Cable, 318 MHZ (<8/26/14)	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
48	53700068	Radio Control, 24V, Kit, 318 MHZ (<8/26/14)	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
49	66250016	Radio RCVR, 24V 318 MHZ (<8/26/14)	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
50	66250017	Radio RCVR, 24V 300 MHZ (<8/26/14)	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
51	73750002	Radio TRANS, 300 MHZ, BTN, 4 (<8/26/14)	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
52	73750015	Radio TRANS, 318 MHZ, BTN, 1 (<8/26/14)	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
53	73750018	Radio TRANS, 318 MHZ, BTN, 3 (<8/26/14)	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
54	73750019	Radio TRANS, 318 MHZ, BTN, 2 (<8/26/14)	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
55	54270030	Strobe 120VAC Amber	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
56	54270031	Strobe 120VAC Red	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
57	54270036	Light, Dok Lok, Assy, 12/24 LED	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y
58	53700567	Switch, Disconnect w/Handle	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
59	72700011	Switch, Selector, 2 Pos, Key	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
60	72700072	Switch, Selector, 2 Pos (Socket p/n: 17200012)	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
61	72700144	Switch, Selector, 3 Pos, 3 Pole, 12A	Y	N	N	N	N	N	N	N	N	N	N	N
62	VRTLV	Virtual Vision, Kit, Stand Alone	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
63	53701031	Virtual Vision Stand Alone Junction Box	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
64	7623	Virtual Vision, Kit, FSTX/FR/LTSPD	N	N	N	N	N	Y	N	Y	Y	N	Y	Y
65	7624	Virtual Vision, Kit, FSTXCL	N	N	N	N	N	N	Y	N	N	N	N	N
66	7628	Virtual Vision, Kit, FSTXXL	N	N	N	N	N	N	N	N	N	Y	N	N
67	53700862	Warning Device Kit, Relay, i-COMM	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
68	53700863	Warning Device Kit, Relay, PLC	N	N	Y	Y	Y	N	N	N	N	N	N	N
69	53700306	Kit, Activation Service Parts (loop, pe, pull, push)	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
#	Part #	Description (Last updated: 08.29.17)	5700	7100	8000	8600	8900	FSTX	FSTXCL	FSTXFR	FSTXFRLD	FSTX	LTSPD	Split2nd

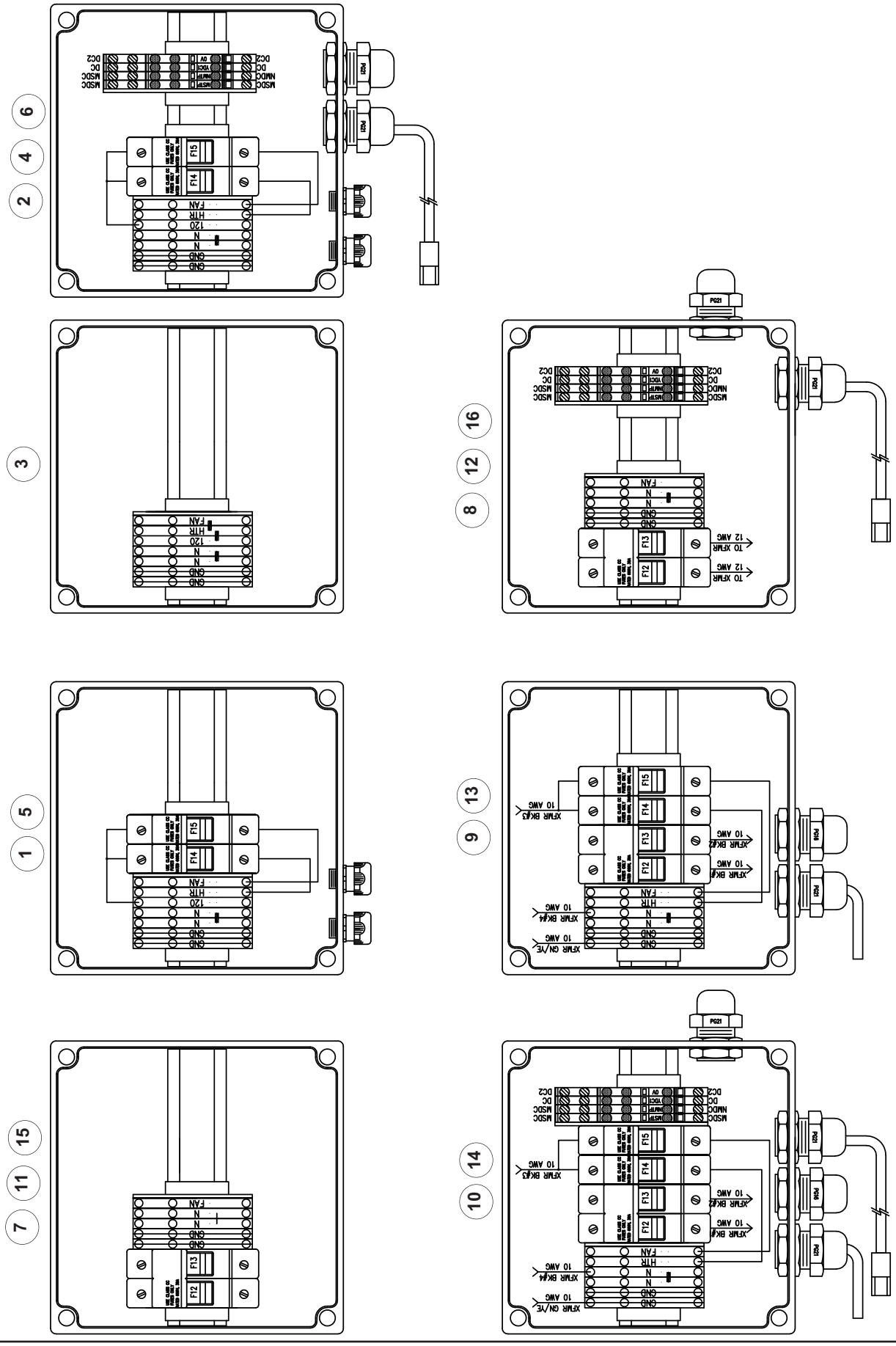
SS PANEL SERVICE PARTS



BP PANEL SERVICE PARTS



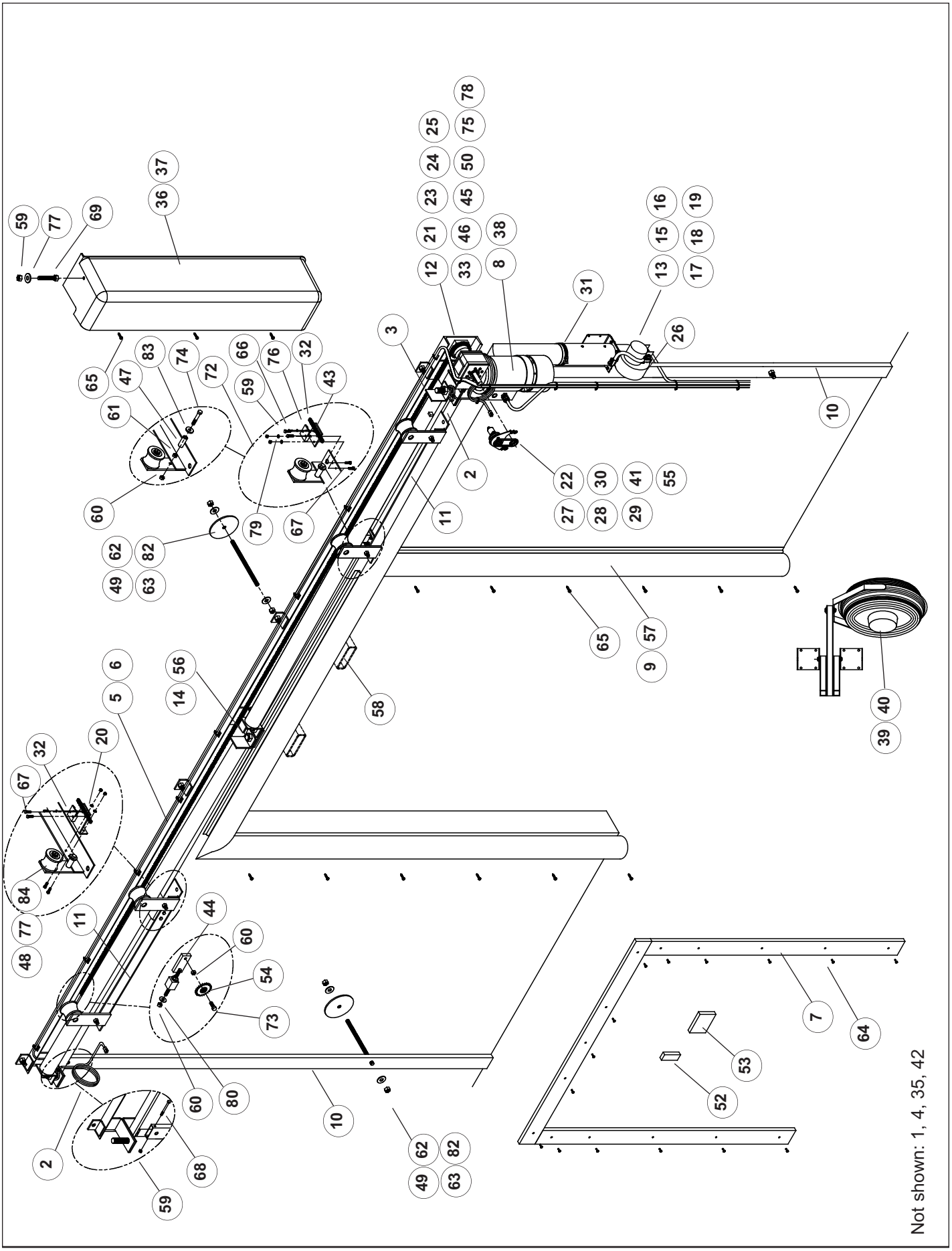
JUNCTION BOX SERVICE PARTS



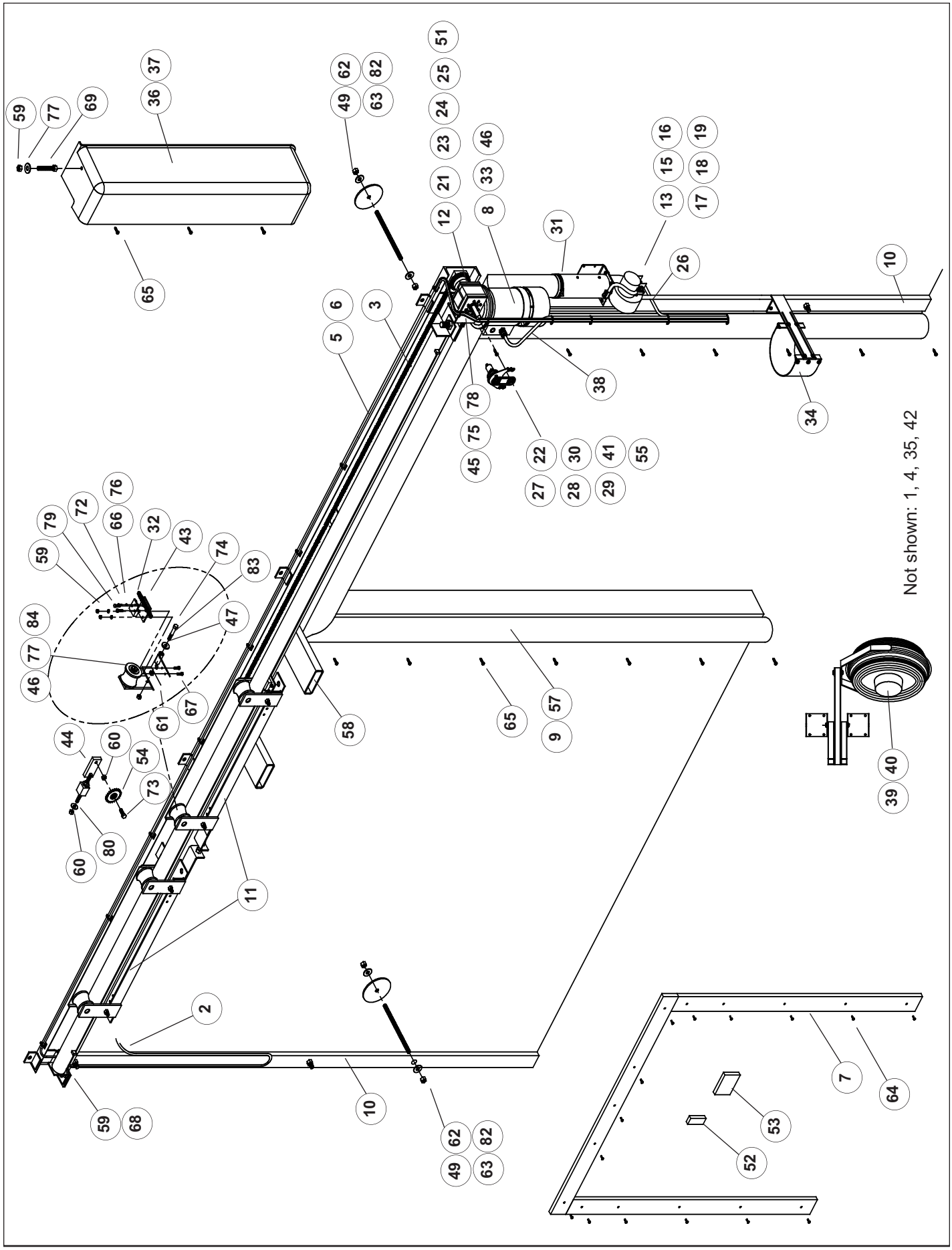
JUNCTION BOX SERVICE PARTS

#	Virtual vision	Canadian Specs	120V	230V	Stepdown			Junction Box Description	Part Number	Transformer Description	Part Number
					230V	460V	575V				
1	-	-	X	-	-	-	-	JBOX,FRZ,120V	53530030	-	-
2	-	X	X	-	-	-	-	JBOX,FRZ,120V,CAN	53530032	-	-
3	X	X	X	-	-	-	-	JBOX,FRZ,120V,CAN,VRTLV	53530033	-	-
4	X	-	X	-	-	-	-	JBOX,FRZ,120V,VRTLV	53530031	-	-
5	-	-	-	X	-	-	-	JBOX,FRZ,220V	53530034	-	-
6	-	X	-	-	x	-	-	JBOX,FRZ,230V,2KVA XFMR	53530036	XFMR,2.0KVA,480/240:240/120	73550024
7	X	X	-	-	x	-	-	JBOX,FRZ,230V,2KVA XFMR,VRTLV	53530037	XFMR,2.0KVA,480/240:240/120	73550024
8	X	-	-	X	-	-	-	JBOX,FRZ,220V,VRTLV	53530035	-	-
9	-	-	-	-	-	X	-	JBOX,FRZ,460V,3KVA XFMR	53530038	XFMR,3KVA,480/240:240/120	73550027
10	-	X	-	-	-	X	-	JBOX,FRZ,460V,2KVA XFMR	53530040	XFMR,2.0KVA,480/240:240/120	73550024
11	X	X	-	-	-	X	-	JBOX,FRZ,460V,2KVA XFMR,VRTLV	53530041	XFMR,2.0KVA,480/240:240/120	73550024
12	X	-	-	-	-	X	-	JBOX,FRZ,460V,3KVA XFMR,VRTLV	53530039	XFMR,3KVA,480/240:240/120	73550027
13	-	-	-	-	-	-	X	JBOX,FRZ,575V,3KVA XFMR	53530042	XFMR,3KVA,600:240/120	73550026
14	-	X	-	-	-	-	X	JBOX,FRZ,575V,2KVA XFMR	53530044	XFMR,2.0KVA,600:240/120	73550017
15	X	X	-	-	-	-	X	JBOX,FRZ,575V,2KVA XFMR,VRTLV	53530045	XFMR,2.0KVA,600:240/120	73550017
16	X	-	-	-	-	-	X	JBOX,FRZ,575V,3KVA XFMR,VRTLV	53530043	XFMR,3KVA,600:240/120	73550026

BP DOOR SERVICE PARTS



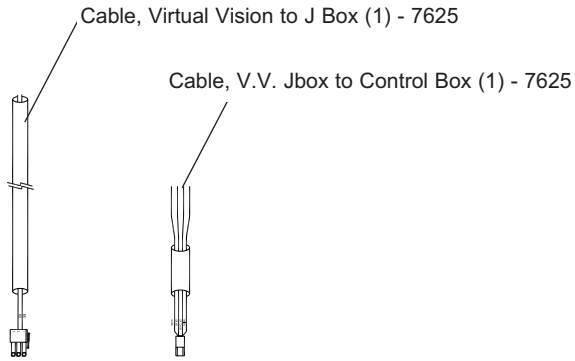
SS DOOR SERVICE PARTS



DOOR SERVICE PARTS

ITEM	QTY	DESCRIPTION	P/N
1	1	Door Assembly	7100
2	1	Cable, Panel Heater, Drive or Non-Drive	1591
3	a/r	Drive Chain, #40	1655
4	1	Door Crate	2791
5	1	Header Weldment (specify RHD/LHD)	4653
6	1	Header Assembly (specify RHD/LHD)	5220
7	1	Kit, Poly Lumber	5337
8	1	Motor/Brake Assembly, 7100	5544
9	1	Seal, Perimeter Ass'y (Specify Drive & Storage)	6879
10	2	Support Post	7266
11	1/2	Header Trolley (specify SS-R/L, Bi-Part)	7385
12	1	Gearbox Bushing	12500036
13	1	Blower 140 CFM 115V (Thermal Air Seal)	13250025
14	1	Drive Chain Wear Pad	13000041
15	1	Kit, Blower, Heater, Air seal, 110V	13250080
16	1	Kit, Blower, Heater, Air seal, 230V	13250081
17	1	Kit, Blower, Cooler, Air seal, 120V	13250082
18	1	Kit, Blower, Cooler, Air seal, 230V	13250083
19	1	Kit, Blower, Heater, Air Seal (Canada)	13250084
20	1	Drive Chain Attachment, LH Trolley	14500831
21	1	Gearbox, Plate, Weldment, RHD	14501411
22	1	Bracket, Encoder, 172.1	14501412
23	1	Gearbox, Plate, Weldment, LHD	14501414
24	1	Bracket, Drive Shroud, Encoder, RHD, 7100	14501450
25	1	Bracket, Drive Shroud, Encoder, LHD, 7100	14501453
26	20'/50'	Cable, Blower	15650204
27	1	Encoder Cable 4M	15650256
28	1	Encoder Cable 8M	15650257
29	1	Encoder Cable 17M	15650258
30	1	Chain, #25, Roller, 16", Nyltron, GS	16600063
31	1	Clamp, Nose, Snap lock, 2-5" STNLS	16700020
32	1	Drive Chain Trolley Clamp	16700035
33	1	Key, Gearbox, 1/4" SQ x 3 1/2"	53550010
34	1	Panel Guide (S.S. only)	53700458
35	1	Kit, Spare Parts Box (not shown)	53700468
36	1	Kit, Shroud, Motor, RHD	53700480
37	1	Kit, Shroud, Motor, LHD	53700481
38	1	Kit, 7100, Cable, Motor, 20'	53700637
39	1	Kit, Curtain Fan, 115V, 1Ø	53700769
40	1	Kit, Curtain Fan, 220V, 1Ø	53700770
41	1	Kit, Encoder Assembly, 172.1, 7100	53701004
42	1	Kit, 7100, Jbox, Assy, Panel Htr	53701038
43	1	Drive Chain Attachment, RH Trolley	65000424
44	1	Drive Chain Tensioner	65000430
45	-	n/a	
46	1	Retaining Ring	67020052
47	4	Header Trolley Roller, Bottom	67200046
48	4	Header Trolley Roller Assembly	67200052
49	10/12	Thru-Bolt All Thread Rods, 5/8"-11 x 12"	67900042
50	1	Gearbox Shaft, 7100, BP, Encoder	68950239
51	1	Gearbox Shaft, 7100, SS, Encoder	68950240
52	6	Shim, Support Tube, 3", 7100	69000008
53	6	Shim, Header, 10", 7100	69000009
54	1	Sprocket, Idler	70800028
55	1	Sprocket, #25, 24T, 1" Bore, Plastic	70800047
56	9"	Drive Chain Wear Pad Tape	72800040
57	1	Seal, Perimeter Track (18')	73400002
58	2	Header Lifting Bracket	73870033
59	2	Nut, Hex, 5/16-18, Znc	55620001
60	6	Nut, Hex, 1/2-13, Znc	55650001
61	4	Nut, Hex, Lock, 1/2-13, Znc	55650004
62	20/24	Nut, Hex, 5/8-11, Znc	55660001
63	10/12	Backer plate, 1/8" x 6" Ø, Znc	65000723
64	a/r	Fab Lok, 5/16" x 1.8"	66840016
65	40	Screw, HWHSMS, #14 x 1 1/4", Znc	67850001
66	1	Screw, RHMS PHLP, #10-24 x 3/4", Znc	67850030
67	8	Screw, HWH, DR/Tap, #14 x 1", Znc	67860101
68	2	Screw, HHMS, 5/16-18 x 3 1/2", Gr5, Znc	67870015
69	1	Screw, Carriage, 5/16-18 x 2 1/2", Znc	67870034
70	-	n/a	
71	-	n/a	
72	2	Screw, HHMS, 5/16-18 x 1 1/2", Gr8, Znc	67870102
73	1	Screw, HHMS, 1/2-13 x 1 1/2", Gr5, znc	67900005
74	2	Screw, HHMS, 1/2-13 x 4", Gr5, znc	67900023
75	8	Screw, HHMS, M6-1.0x16MM, GR8	67930006
76	2	Washer, Lock, Split, #10, Znc	74100001
77	2	Washer, Flat, 1/4 x 5/8 x .050, SS	74110003
78	8	Washer, Lock, Split, 1/4", znc	74110004
79	2	Washer, Lock, Split, 5/16, Znc	74120002
80	2	Washer, Flat, 5/16, Znc	74120003
81	2	Washer, Flat, 1/2 x 1 3/8" x 7/64", Znc	74150001
82	20/24	Washer, Flat, 5/8 x 1-3/4 x 9/64, Znc	74160001
83	4	Washer, Trolley	74170021
84	2	Screw, BHMS, Socket, 1/4-20 x 1/2"	67860110

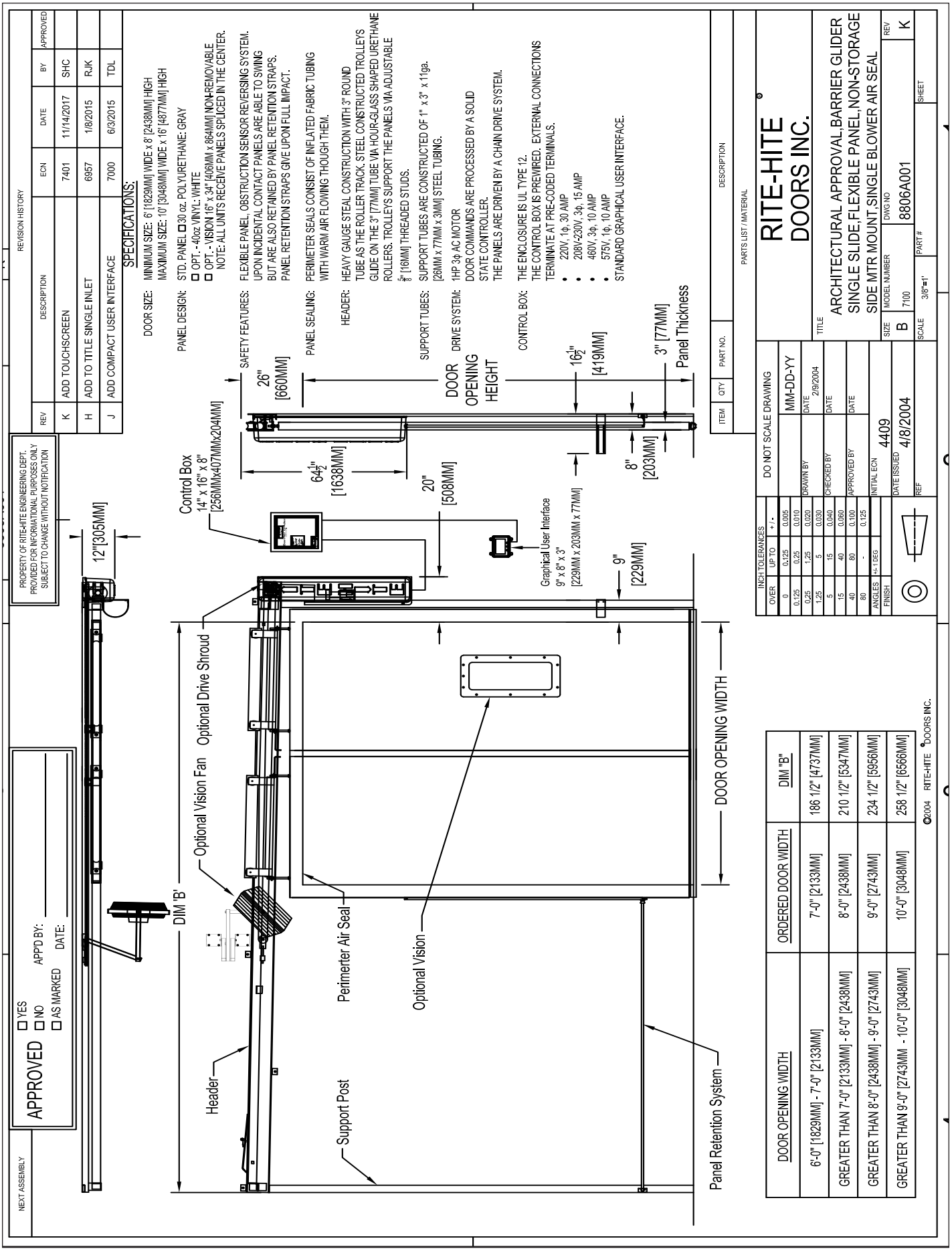
SERVICE PARTS



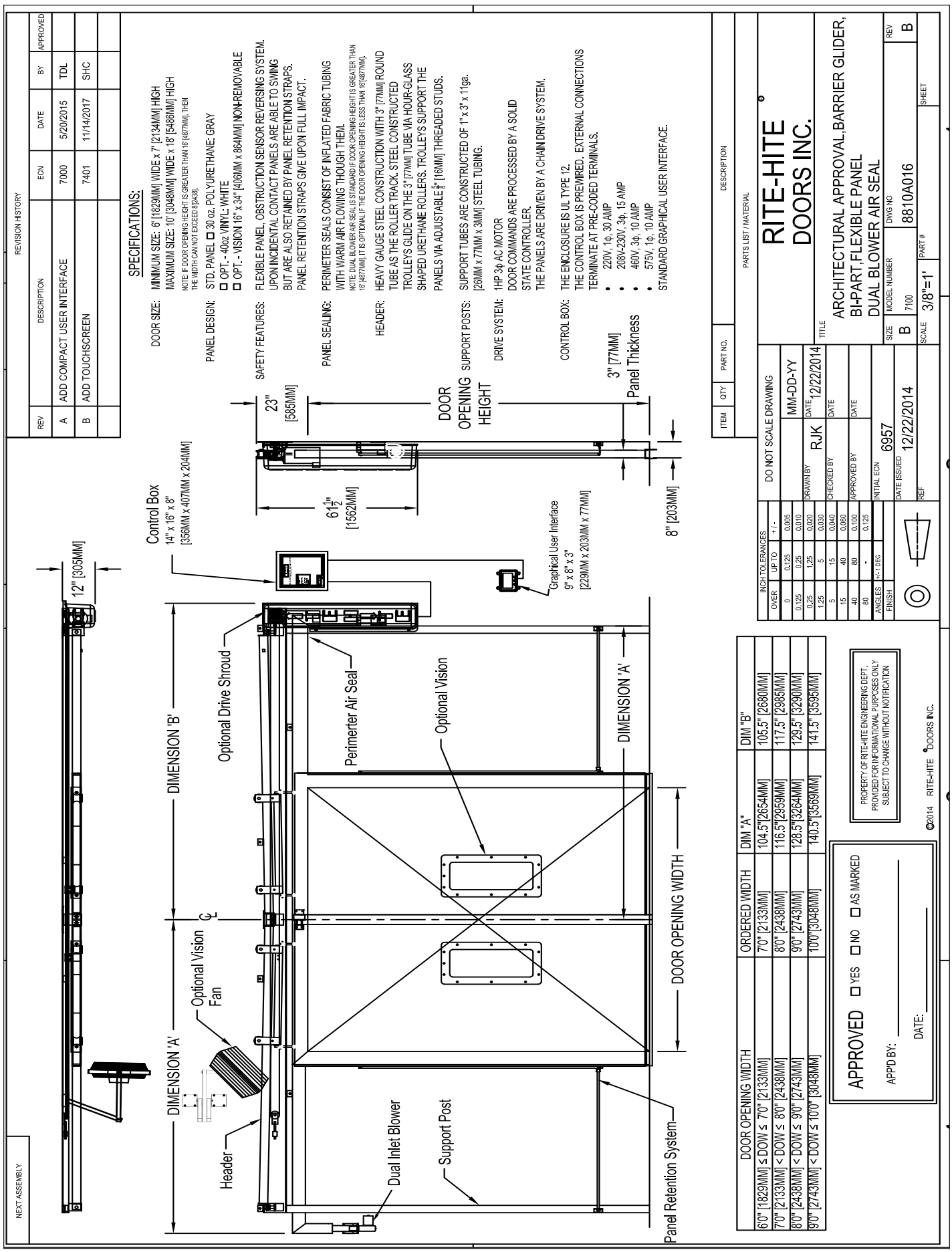
Virtual Vision Assembly, (a/r) - 7625

Bracket, BEA Falcon - (a/r) 14501212

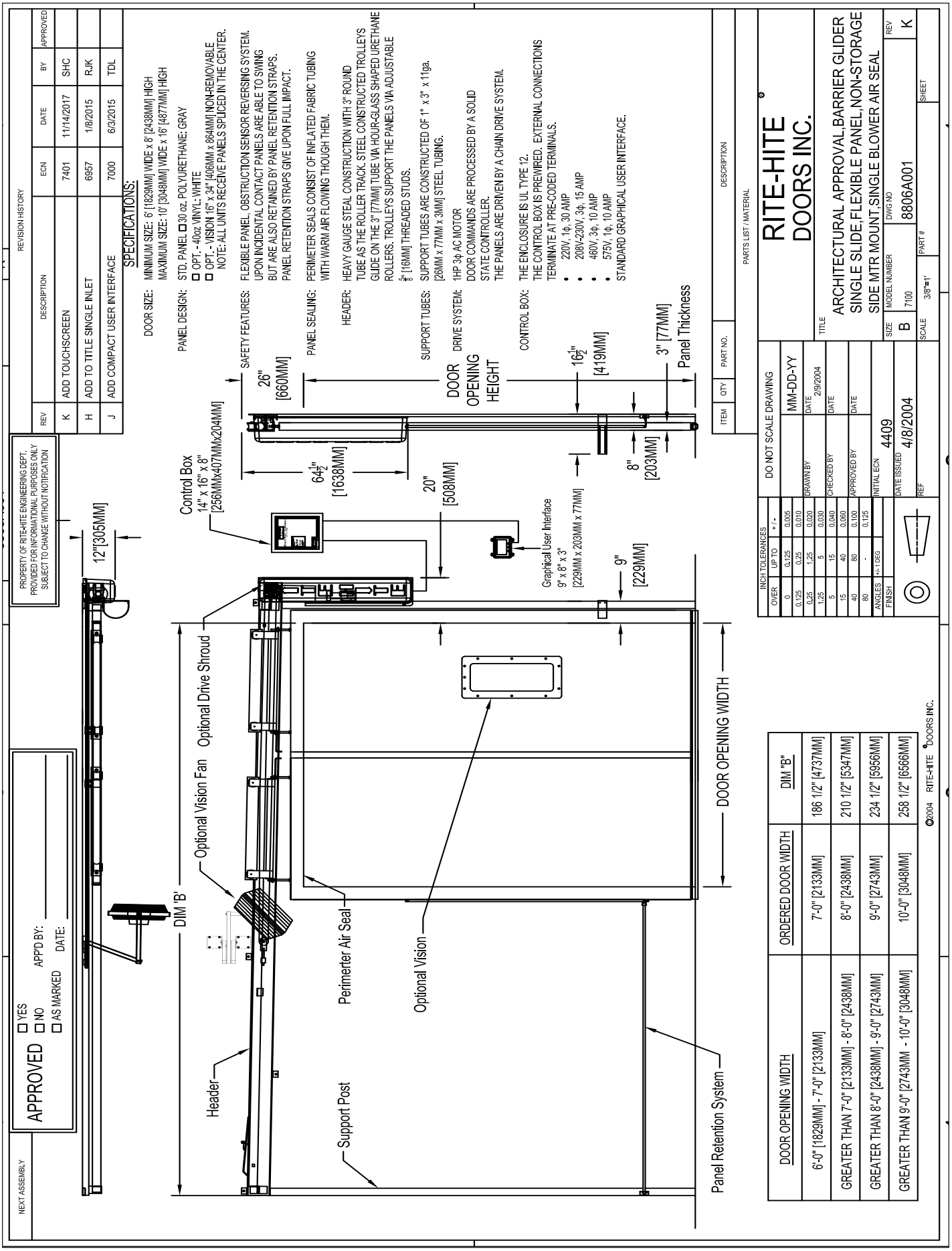
ARCH DWG BI-PART SINGLE BLOWER



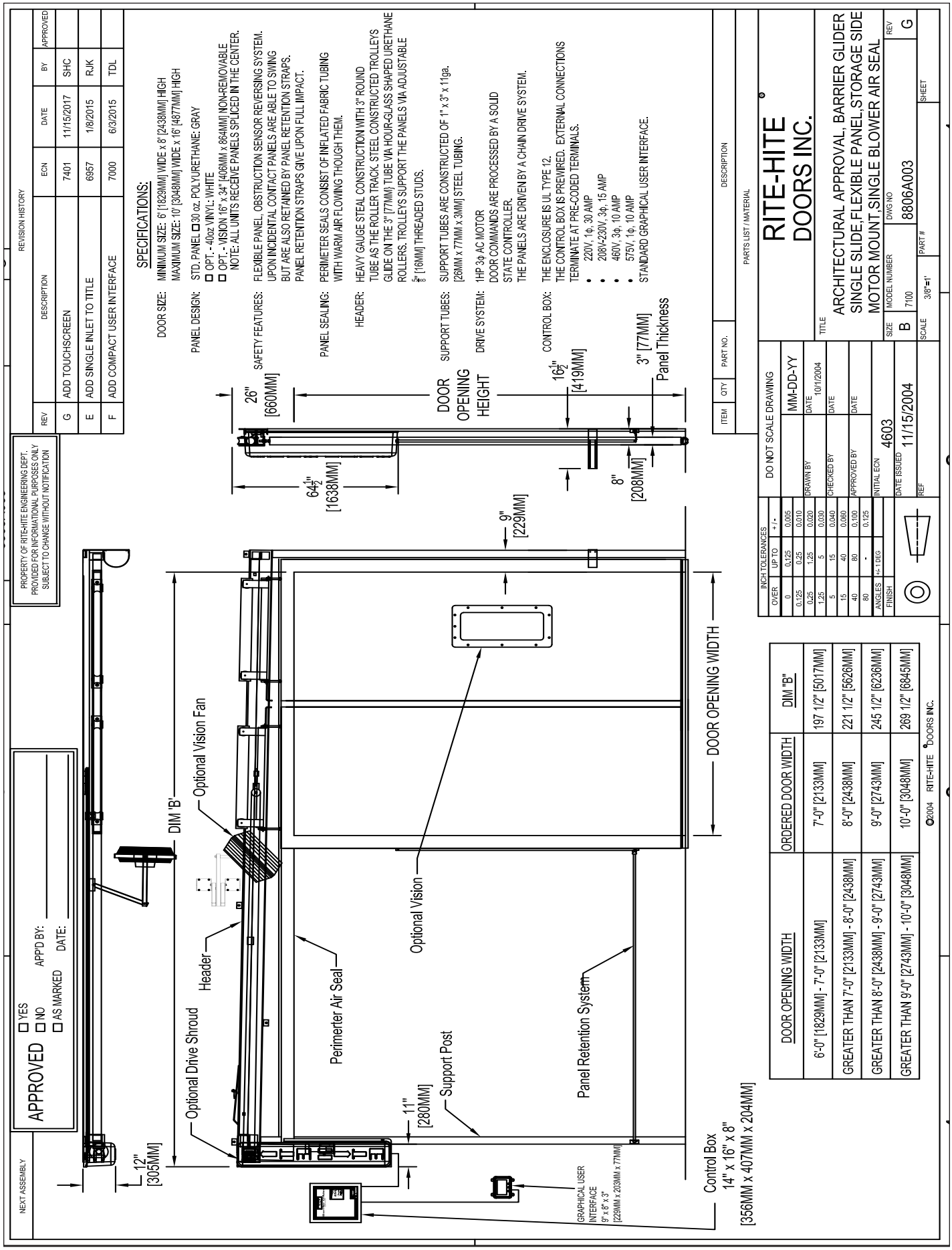
ARCH DWG BI-PART DUAL BLOWER



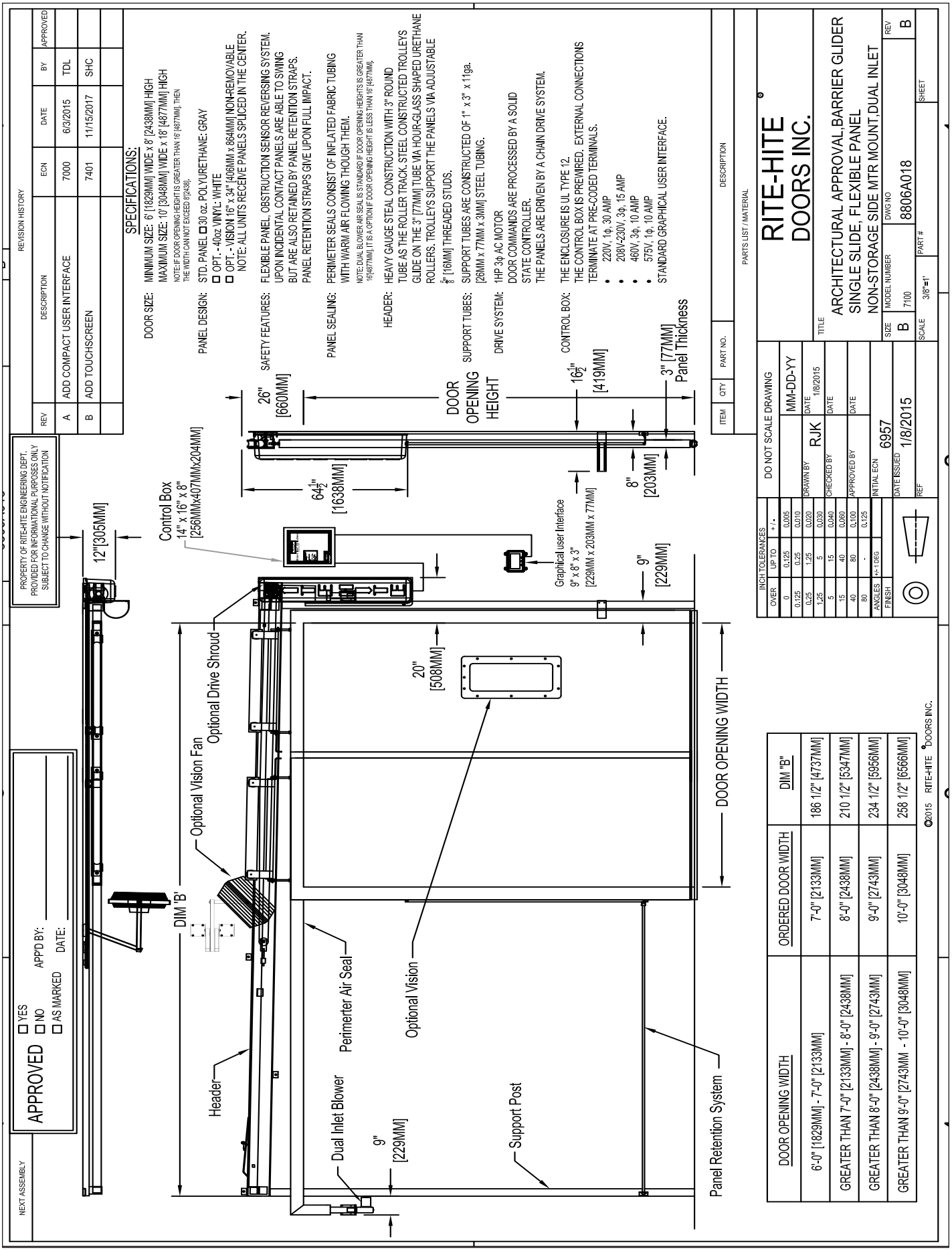
ARCH DWG SS RHD, LH SLIDE SINGLE BLOWER



ARCH DWG SS LHD, LH SLIDE SINGLE BLOWER



ARCH DWG SS RHD, LH SLIDE DUAL BLOWER



RITE-HITE DOORS ABBREVIATION LIST

Abbreviation	Description	Abbreviation	Description
AB	Allen Bradley	Max	Maximum
AC	Alternate Current	Mhx	Mega Hertz
ACT	Activation	Mil / mm	Millimeters
Amp	Amperage	Min	Minimum
A/R	As Required	Misc	Miscellaneous
Ass'y	Assembly	MPH	Miles per hour
BL or BLK	Black	MSDC	Mounted Side DC
BP	Bi-Parting	MSTP	Mounted Side Tie Point
BRD/DRN	Braided or Drain wire	N	Neutral
BR or BRN	Brown	NMDC	Non-Mounted Side DC
BRKT	Bracket	NMTP	Non-Mounted Side Tie Point
BRK	Brake	N/A	Not Available
BTM	Bottom	N.C.	Normally Closed
BU	Blue	N.O.	Normally Open
CC	Current Limiting	N.P.O.	Non-Powered Opening
CE	European Commission	OB	Obstruction
CL	Clean Door	O.D.H.	Ordered Door Height
CLR	Cooler Door	O.D.W.	Ordered Door Width
CR	Control Relay	Opt	Optional
CT	Control Techniques	OR or ORG	Orange
C.W.	Counter Weight	Oz	Ounce
DC	Direct Current	Pharma	Pharmaceutical
D.O.H.	Door Ordered Height	PB	Push Button
D.O.W.	Door Ordered Width	PE	Photoeye
DR	Drill	PHLP	Phillips Head
E-Stop	Emergency Stop	PHSMS	Pan Head Sheet Metal Screw
e.g.	For Example	PK	Pink
etc	Etcetera	P.M.P.	Planned Maintenance Program
Ext	Exterior	Pos	Position
Ext/Ext	Exterior / Exterior	PSA	Pressure Sensitive Adhesive
FHMS	Flat Head Machine Screw	Pub	Publication
F1,2,3	Fuse 1,2,3	PVC	Polyvinyl Chloride
FCC	Federal Communications Commission	Qty	Quantity
FHWH	Flat Head Washer Head	R	Right
FR / FZR	Freezer Door	RD	Red
FSTX	FasTrax	RH	Right Hand
GBX	Gearbox	RHD	Right Hand Drive
GN or GRN	Green	RHMS	Round Head Machine Screw
GND	Ground	R/T	Roller Tube
GR	Grade	SD	Secure Digital
GY	Gray	SEC	Seconds
HDW	Hardware	SF	Square Foot
HHCS	Hex Head Cap Screw	S/F	Side Frame
HHMS	Hex Head Machine Screw	SK	Control Techniques VFD
HWHSMS	Hex Washer head Sheet Metal Screw	SPDT	Single Pole Double Throw
H.P.	Horse Power	SPLT	SplitSecond
Hz	Hertz	SS	Single Slide
illum	Illumination	S.S. / STNLS	Stainless Steel
in	Inches	STND / STD	Standard
ind	Induction	SW	Switch (Disconnect)
Int	Interior	Term	Terminal
Int/Int	Interior / Interior	TIG	Tungsten Insert Gas
Int/Ext	Interior / Exterior	UHMW	Ultra High Molecular Weight
I/O	Input / Output	UV	Ultra Violet
J-Box	Junction Box	V	Voltage
KBPS	Kilobytes per second	VFD	Variable Frequency Drive
KLDR	Time Delay Fuse	VL	Vertical Lift
KVA	Kilo-Volt Ampere	V.V.	Virtual Vision
L	Left	W.D.	Warning Device
lb	Pounds	w/	With
LCD	Liquid Crystal Display	w/o	Without
LED	Light-Emitting Diode	WH	White
LH	Left Hand	X	Controller Input
LHD	Left Hand Drive	XL	Extra Large Door
L1,2,3	Line Voltage 1, 2, 3	Y	Controller Output
LLC	Limited Liability Company	YE	Yellow
LTSPD	LiteSpeed	ZNC	Zinc
L/S	Limit Switch	0V	Direct Current Common (Zero V)
M/D/Y	Month/Day/Year		

Rev. 7.22/15

RITE-HITE LIMITED PRODUCT WARRANTY

RITE-HITE Company, LLC and its affiliates (collectively "RITE-HITE") warrants that the Barrier Glider door sold to the Owner will be free of defects in design, materials and workmanship (ordinary wear and tear excepted) for the periods set forth below ("Limited Warranty").

Two (2) Year on all mechanical and electrical parts.

One (1) Year labor, based on approved travel and labor repair times.

Five (5) Year for motor, brake and gearbox material failure only

(does not include attached connectors, wiring or mechanical items).

REMEDIES

Parts. RITE-HITE's obligations under this Limited Warranty is limited to repairing or replacing, at RITE-HITE's option, any part which is determined by RITE-HITE to be defective during the applicable warranty period. Such repair or replacement shall be RITE-HITE's sole obligation and the Owner's exclusive remedy under this Limited Warranty.

Labor. RITE-HITE will provide warranty service without charge for labor in the first year of the warranty period. Thereafter, a charge will apply to any repair or replacement under this Limited Warranty.

CLAIMS. Claims under this Limited Warranty must be made (i) within 30 (thirty) days after discovery and (ii) prior to expiration of the applicable warranty period. Claims shall be made in writing or by contacting the representative from whom the Product was purchased directly. Owner must allow RITE-HITE or its agent, a reasonable opportunity to inspect any Product claimed to be defective and shall, at RITE-HITE's option, either (x) grant RITE-HITE or its agent access to Owner's premises for the purpose of repairing or replacing the Product or (y) return of the Product to the RITE-HITE, f.o.b. RITE-HITE's factory.

NOT WARRANTED. RITE-HITE does not warrant against and is not responsible for wear items such as fuses, batteries, bulbs, vision and seals. No implied warranty shall be deemed to cover, damages that result directly or indirectly from: (i) the unauthorized modification or repair of the Product, (ii) damage due to misuse, neglect, accident, failure to provide necessary maintenance, or normal wear and tear of the Product, (iii) failure to follow RITE-HITE's instructions for installation, failure to operate the Product within the Product's rated capacities and/or specified design parameters, or failure to properly maintain the Product, (iv) use of the Product in a manner that is inconsistent with RITE-HITE's guidelines or local building codes, (v) movement, settling, distortion, or collapse of the ground, or of improvements to which the Products are affixed, (vi) fire, flood, earthquake, elements of nature or acts of God, riots, civil disorder, war, or any other cause beyond the reasonable control of RITE-HITE, (vii) improper handling, storage, abuse, or neglect of the Product by Owner or by any third party.

DISCLAIMERS. THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER REPRESENTATIONS AND WARRANTIES, EXPRESS OR IMPLIED, AND RITE-HITE EXPRESSLY DISCLAIMS AND EXCLUDES ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PURPOSE. RITE-HITE SHALL NOT BE SUBJECT TO ANY OTHER OBLIGATIONS OR LIABILITIES, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORIES OF LAW, WITH RESPECT TO THE PRODUCTS SOLD OR SERVICES RENDERED BY RITE-HITE, OR ANY UNDERTAKINGS, ACTS, OR OMISSIONS RELATING THERETO.

LIMITATION OF LIABILITY. IN NO EVENT SHALL RITE-HITE BE RESPONSIBLE FOR, OR LIABLE TO ANYONE FOR, SPECIAL, INDIRECT, COLLATERAL, PUNITIVE, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RITE-HITE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Such excluded damages include, but are not limited to, personal injury, damage to property, loss of goodwill, loss of profits, loss of use, cost of cover with any substitute product, interruption of business, or other similar indirect financial loss.

RITE-HITE DOORS, INC. is covered by one or more of the following U.S. patents, including patents applied for, pending, or issued:

5,579,820, 5,638,883, 5,794,678, 5,887,385, 5,915,448, 5,944,086, 6,089,305, 6,145,571, 6,148,897, 6,192,960, 6,212,826, 6,321,822, 6,325,195, 6,330,763, 6,360,487, 6,481,487, 6,560,927, 6,598,648, 6,612,357, 6,615,898, 6,688,374, 6,698,490, 6,837,296, 6,901,703, 6,942,000, 6,964,289, 7,034,682, 7,045,764, 7,111,661, 7,114,753, 7,151,450, 7,578,097, 7,699,089, 7,748,431, 7,757,437, 8,037,921, 8,167,020, 8113265.

FCC COMPLIANCE

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

NOTE: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference
(2) This device must accept any interference received, including interference that may cause undesirable operation.

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