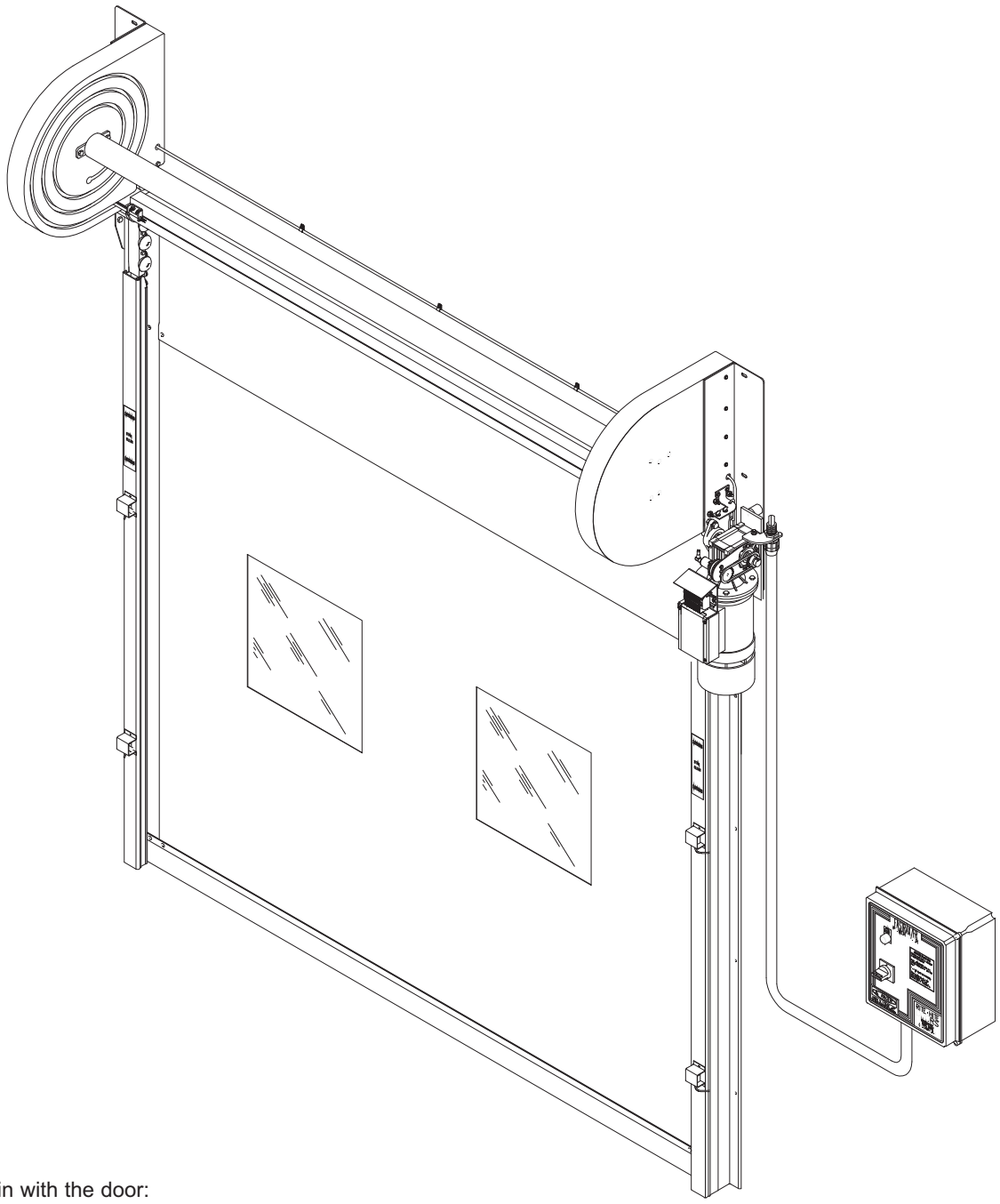
FASTRAX®

HIGH PERFORMANCE MODULAR DOOR



This manual to remain with the door:
Date Installed:_____

RITE-HITE® DOORS
The Leading Edge In Door Safety.

MADE IN THE U.S.A.

This Manual Covers Doors Shipped = > 8/16/2010. Added Encoder, fabric shroud and updated radials.
Refer to FasTraxE for doors prior.

PRINTED IN U.S.A.
email: printshop@RITEHITE.com

Publication No. FasTraxG
July 2011

TABLE OF CONTENTS

SPECIAL FEATURES

- i-COMM™ Universal Controller
- Heavy-Duty Industrial Materials
- No Springs, Pulleys or Weights
- InsulMax Curtain w/Auto Re-feed™
- I-Zone™ Area Detection System
- Flexible “You Build It” Track Design
- DuraMax Curtain w/Auto Re-feed™
- Adjustable Speeds
- Encoder Positioning
- Virtual Vision
- Powder Coated Materials
- Soft-Edge™ Technology
- High Pressure Capability

RECOMMENDED SERVICE PARTS

Bumper, Rubber, Motor	15250081 (2)
Fuse, 1 Amp, 250V, Time Delay	51000002 (2)
Fuse, 2 Amp, 250V, Time Delay	51000005 (2)
Kit, Drive Sphere, Qty 10	53700561 (2)
Photoeye Source	53700702 (1)
Photoeye Receiver	53700703 (1)
Kit, Encoder	53700792 (1)

NOTICE TO USER

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

Thank you for purchasing the FasTrax® door from RITE-HITE DOORS, INC. The FasTrax door is a unique fabric door that can be transformed to fit most opening configurations while helping to keep different atmospheres separate.

This manual should be thoroughly read and understood before beginning the installation, operation or servicing of this door. This owners manual MUST be stored near the door. Complete final checklist prior to leaving site. Refer to partslist manual for exploded views and part numbers.

RITE-HITE DOORS, INC. reserves the right to modify the electrical and architectural drawings in this manual as well as the actual parts used on this product are subject to manufacturing changes and may be different than shown in this manual. Due to unique circumstances with varying requirements, separate prints may be included with the unit.

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. The serial # for your door is on a label located on the side of the control box and side track, ***Figure 17.1.***

Your local RITE-HITE DOORS, INC. Representative provides the Planned Maintenance Program (P.M.P.) which can be fitted to your specific operation. If any procedures for the installation, operation or maintenance of the FasTrax have been left out of this manual, are not complete or have suggestions, contact RITE-HITE DOORS, INC. Technical Support at 1-563-589-2722.

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

5,203,175, 5,329,781, 5,353,859, 5,392,836, 5,408,789 5,450,890, 5,542,463, 5,579,820, 5,601,134, 5,638,883, 5,655,591, 5,730,197, 5,743,317, 5,794,678, 5,887,385, 5,915,448, 5,944,086, 5,957,187, 6,042,158, 6,089,305, 6,098,695, 6,145,571, 6,148,897, 6,192,960, 6,321,822, 6,325,195, 6,330,763, 6,352,097, 6,360,487, 6,481,487, 6,574,832, 6,598,648, 6,612,357, 6,615,898, 6,659,158, 6,688,374, 6,698,490, 6,766,562, 6,901,703, 6,923,238, 6,926,061, 6,942,000, 6,964,289, 7,034,682, 7,045,764, 7,111,661, 7,114,753, 7,151,450, 7,748,431

CHAPTER 1 - DOOR JAMB

⚠ CAUTION !!!

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

It is important to verify the following basic information before starting with the installation.

1. Alternate dimensions in brackets are in [millimeters].
2. Make sure that you are working at the correct location and that you have the required work permits.
3. Inspect the site to make sure that there are no overhead obstructions (sprinkler pipes, HVAC systems, electrical supply lines, etc.) that might interfere with the installation.
4. Detour material handling equipment during the installation.
5. Make sure that the correct electrical power is supplied to the door control box and can be shut off without interfering with other plant operations.
6. Install optional equipment after verifying door operation.
7. To verify proper installation, use Checklist on ***Page 21.***

NOTE: ***Electrical prints included in the parts or control box supersede any prints included in this owners manual on Pages 34 - 38. Always check for electrical prints.***

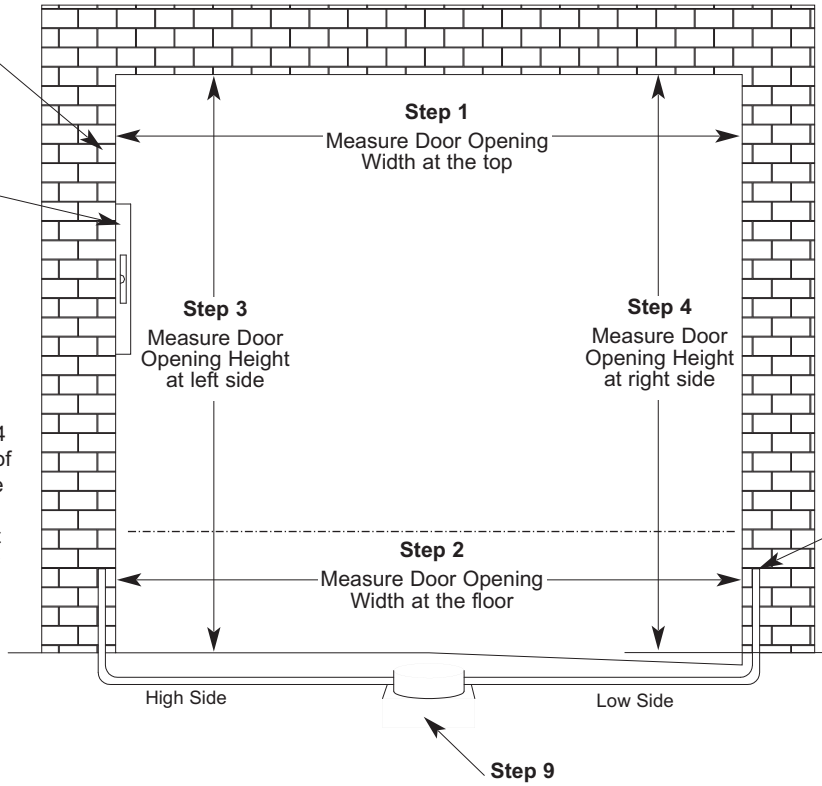
RECOMMENDED MOUNTING FASTENERS

Wall	Fastener
Wood	Lower Track - 3/8" [10] thru-bolt at top, middle, and bottom. 5/16" x 1-1/2" [8x38] lag screws at all other fastener positions. Upper Track - 5/16" x 1-1/2" [8x38] lag screws at all positions.
Wood /Steel	Lower Track - 3/8" [10] thru-bolt at top, middle, and bottom. 5/16" x 1-1/2" [8x38] lag screws at all other fastener positions. Upper Track - 5/16" x 1-1/2" [8x38] lag screws at all positions.
Wood /Masonry	Lower Track - 3/8" [10] thru-bolt or 3/8" [10] masonry anchor positions.at top, middle, and bottom. 5/16" x 1-1/2" [8x38] lag screws at all other fastener positions.
Steel	1. 3/8" [10] thru-bolt. 2. 3/8" [10] drill and tap (material must be 5/16" [8] min.). 3. 3/8" [10] drive self tap/drill screws (1/4" – 14) [6]. 4. Weld, lower track is aluminum, only weld if steel jamb option is included or provided by others.

INSTALLATION TOOLS REQUIRED

- 25’ [7620] Tape measure
- 6’ [1829] Carpenters level
- Scissors Lift
- “C” Clamps
- Drill (cordless or electric)
- Phillips Bit for Drill
- Wire Strippers
- Small Straight/Phillips Screwdrivers
- Allen Wrench Set (2MM, 1/8” [3] & 5/32” [4])
- 7/16” [11], 1/2” [13], 9/16” [14], 3/4” [19] Socket/wrench
- Hydro level
- Ladder (6’-8’) [1829 - 2438]
- Plumb Bob
- Hammer Drill
- Drill Bits
- Straight Edge
- 5/16” [10] Nut Driver

3.1



Step 6
Surface, MUST be flat, smooth and collinear with opposite side

Step 7
Using a 6’ [1829] carpenter’s level, verify that the door jambs and header are plumb and perpendicular.

Step 5
Dimensions from Steps 1 - 4 should be within ± 1/2" [13] of the dimensions listed on the serial number label.
If the measurements do not agree, STOP! Contact your RITE-HITE DOORS, INC. representative.

For space clearance requirements, see Architectural drawings on ***Pages 47 - 51.***

Step 8
Place a mark at 4’ [1219] on each side of the jamb.

Step 9
Using a hydro level, determine if the floor is level. If the floor is not level to within 1/8" [3], mark the wall where the level point is indicated. The measurement between the level mark and the floor is the amount of shimming that needs to be done under the track that will be located on the “Low Side” (greatest measurement) of the door opening.

CHAPTER 2 - LOWER TRACK INSTALLATION

IMPORTANT!!!

If door is equipped with Poly Lumber option - proceed to *Page 22.*

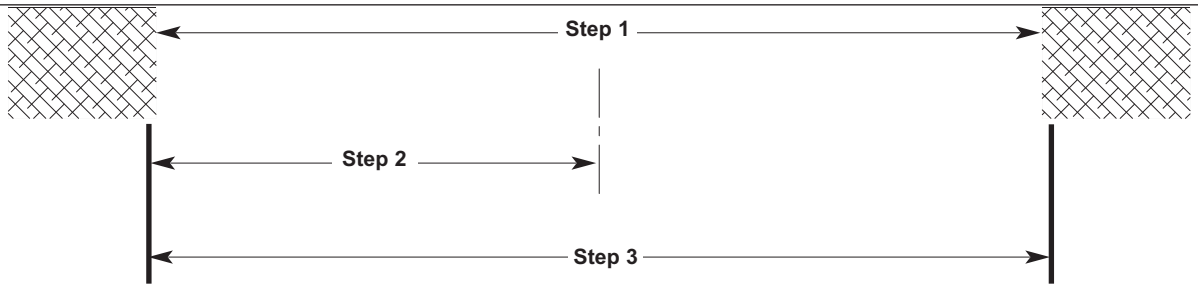
IMPORTANT!!!

If door is equipped with Weld Plate option - proceed to *Page 25.*

IMPORTANT!!!

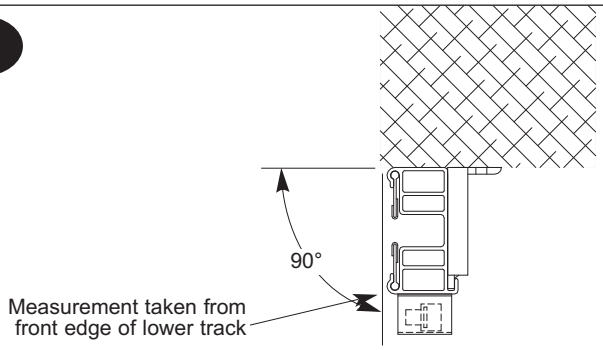
It is imperative that the tracks be mounted at the proper width. If mounted too wide, excess wear is placed on the drive spheres. If too narrow, the curtain may appear wavy or crease in the center.

4.1



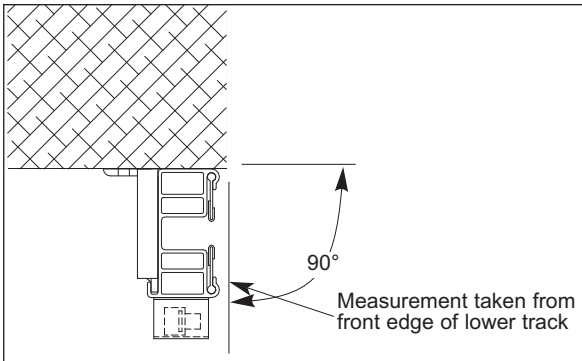
Step 1: Measure Door Opening Width, find center and place mark on the floor.
Step 2: From centerline, measure over 1/2 Ordered Door Width + 1/4" [6] (+ 1/16" [1.5], -0") and place a 6" mark on the floor.
Step 3: From this mark, measure over Ordered Door Width + 1/2" [13] (+ 1/8" [3], -0") and place a 6" mark on the floor.

4.2



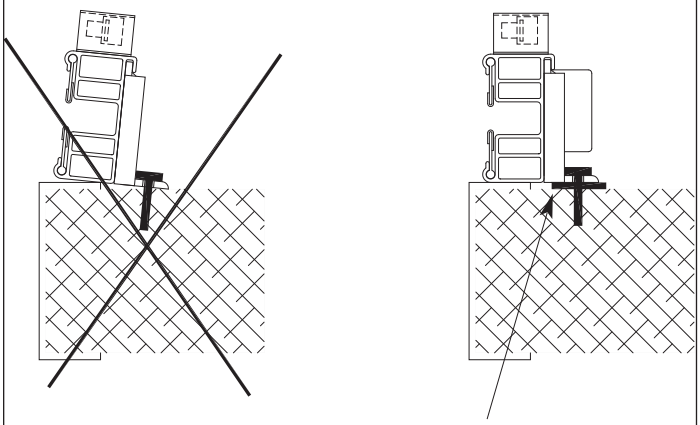
Step 4: Place drive side lower track at the previously made mark on the floor.
Step 5: Lower track must be 90° to wall, use shims as required to square the track.
Step 6: Using a 6' [1829] level, make sure that the track is plumb in both directions.

4.3



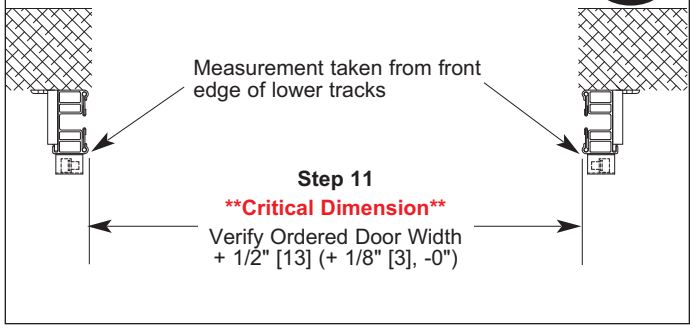
Step 7: Place non-drive side lower track at the previously made mark on the floor.
Step 8: Lower track must be 90° to wall, use shims as required to square the track.
Step 9: Using a 6' [1829] level, make sure that the track is plumb in both directions.

4.4



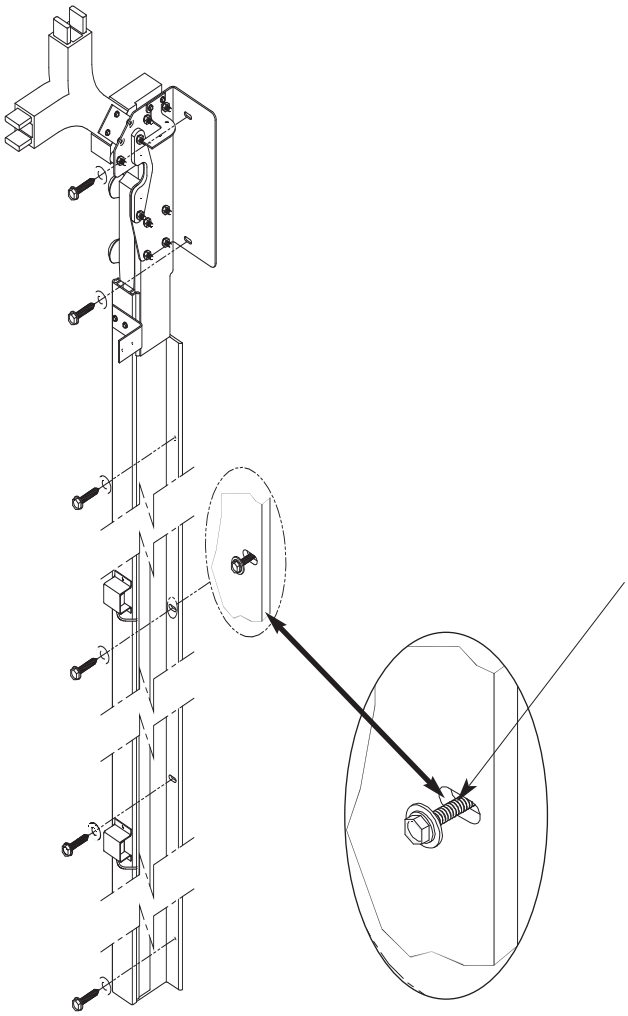
Step 10: If wall has a jamb cap, the lower track MUST be shimmed out.

4.5



CHAPTER 2 - LOWER TRACK INSTALLATION

5.1



Step 12: Verify proper lower track width: O.D.W. + 1/2".

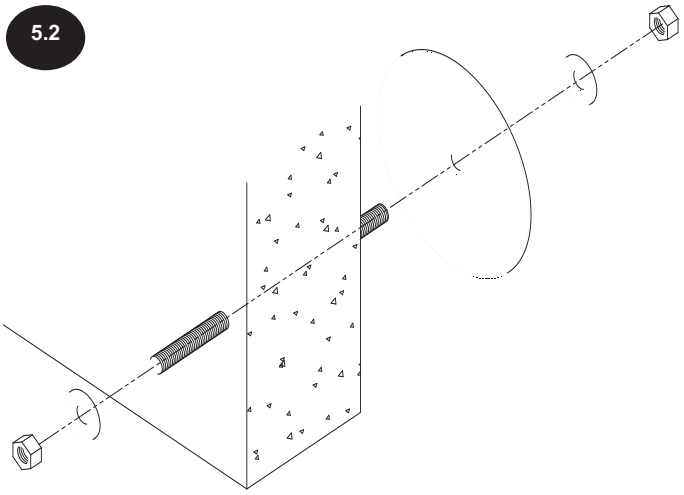
Step 13: Using the predrilled slots in the track as a guide, mark and drill a hole and place a fastener in the center of the slot, at the top, (middle), bottom and tighten.
Slot location may vary based on ordered height.

If the hole goes completely through the wall, use thru-bolts and backing plates to secure the track to the wall, ***Figure 5.2***.
Sleeves may be required if wall collapses when tightening thru-bolt.
It is the responsibility of the installer to ensure proper lower track spacing and adequate method of fastening to the wall.

Step 14: After the entire door is installed and operational make sure the curtain is not too tight or too loose.
Then fill in the remaining holes with fasteners.
It is imperative that all the holes are utilized to prevent lower track movement.

Step 15: For optional weld plates, refer to, ***Figure 25.1.***

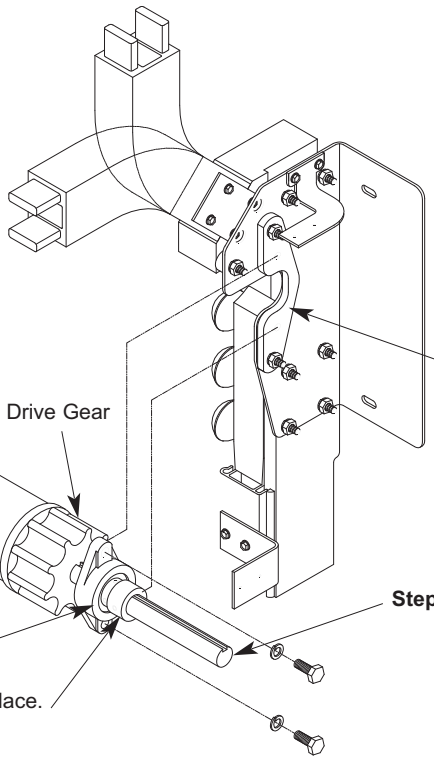
5.2



Step 16: If backer plates are being used, they must be clean and either be painted, or a non-ferrous material.

CHAPTER 3 - DRIVE TUBE INSTALLATION

6.1



Step 5: Lift drive tube in place and fasten the drive and non-drive bearings onto the mounting plate with the (4) 1/2” [13] bolts and lock washers removed earlier

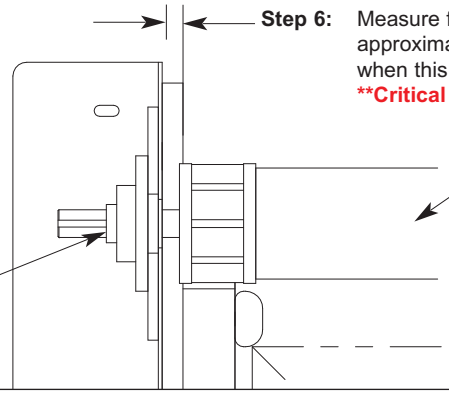
Step 1: Remove the (4) 1/2” [13] bolts and lock washers from the bearing mount plate on drive and non-drive sides.

Step 2: Drive end of shaft is longer than the non-drive side. If chain hoist option is included, the longer shaft is still on the drive side

Step 4: Loosen set screws on bearings prior to lifting drive tube

Step 3: Make sure spacer is in place.

6.2



Step 6: Measure from inside mounting plate to face of drive gear, approximately 5/8" [16]. Tighten bearing set screws when this dimension is equal on both sides.
****Critical Centering Dimension****

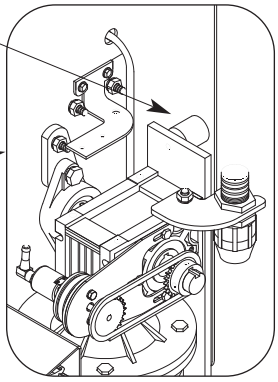
Step 8: Place a level on the drive tube to verify tube is level to within 1/8”, if not, shim lower track as needed

Step 7: Slide lock collar next to bearing and tighten lock collar set screws.

CHAPTER 3 - MOTOR / ENCODER INSTALLATION

7.1

Step 17:
Tighten the rubber motor mounts on the back of the motor mounting plate to the wall mount bracket to reduce any motor rocking. Tighten the rubber mount nuts to lock in place. After motor is wired, run to verify motor does not rock



Grease Fitting

Drive shaft is pre-lubricated at the factory, if more is required, lubricate with an anti-seize lubricant.

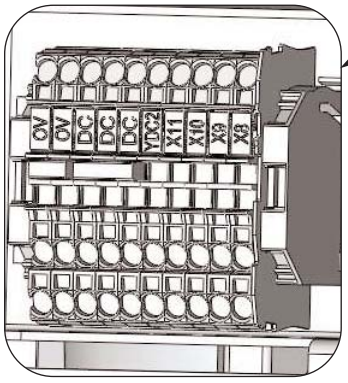
Spacer

Conduit Bracket

Step 10:
Rotate the drive tube until the key way slots are aligned and install key. Re-install lock collar (115 in/lbs).

Step 9: Remove lock collar from drive shaft. Slide gearbox housing onto shaft until it is against the spacer.

Step 11: Finger tighten top bolt on encoder mounting plate to gearbox



Motor/Brake/Gearbox Assembly

Step 12: Slide Encoder drive sprocket onto the drive shaft.
Step 13: Install encoder chain around sprockets.
Step 14: Finger tighten remaining two mounting plate bolts.
Step 15: Measure from each sprocket to plate to align. Tension chain and tighten mounting plate bolts.
Step 16: Tighten set screw on drive sprocket using a 3/32" allen wrench (Do NOT overtighten - 5 in/lbs). Sprocket does NOT require a key.

NOTE:
If side clearance is not available (minimum 18" [457]) to install gearbox after drive tube is installed, place gearbox onto shaft prior to installing drive tube. A lifting device will be necessary for this procedure.

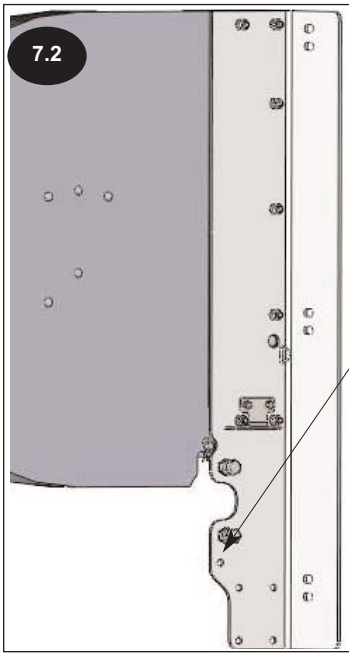
⚠ CAUTION !!!

Make sure lock collar is securely fastened.

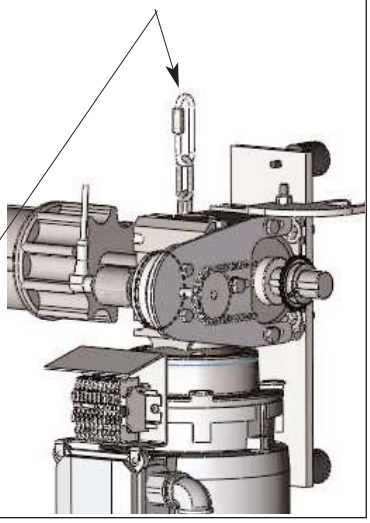
IMPORTANT!!!

If motor rocks excessively, tighten bumpers.

7.2

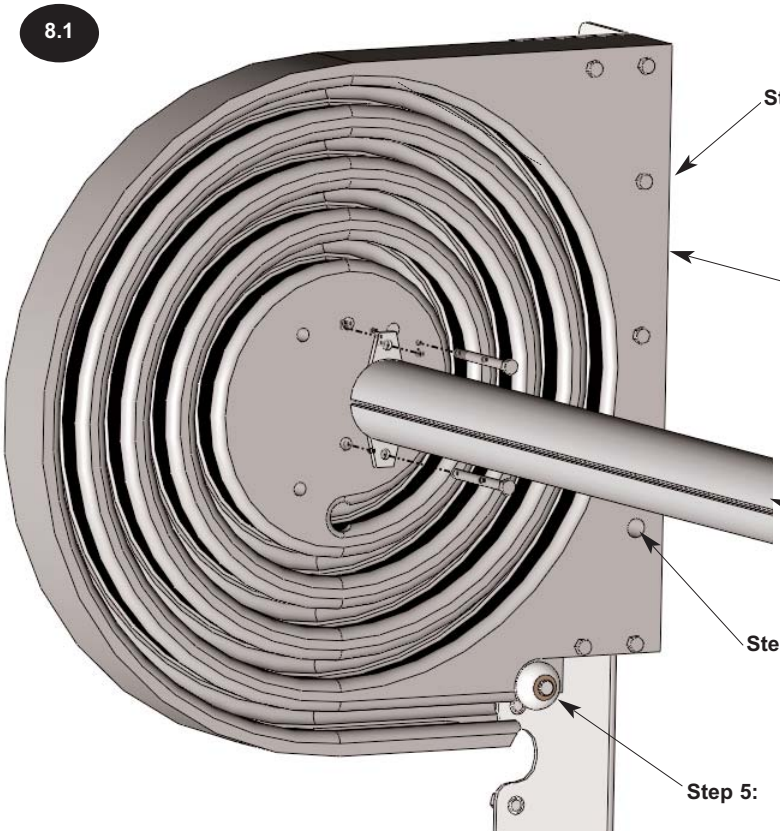


Step 18:
Fasten chain connector from gearbox to hole in wall mount bracket



CHAPTER 4 - UPPER TRACK RADIAL ONLY

8.1



Step 1: Verify area behind wall mounting plates, is solid

Step 2:
O.D.W. + 1/4" [6] ± 1/8" [3]
Make sure radials are parallel to each other and square to the wall.

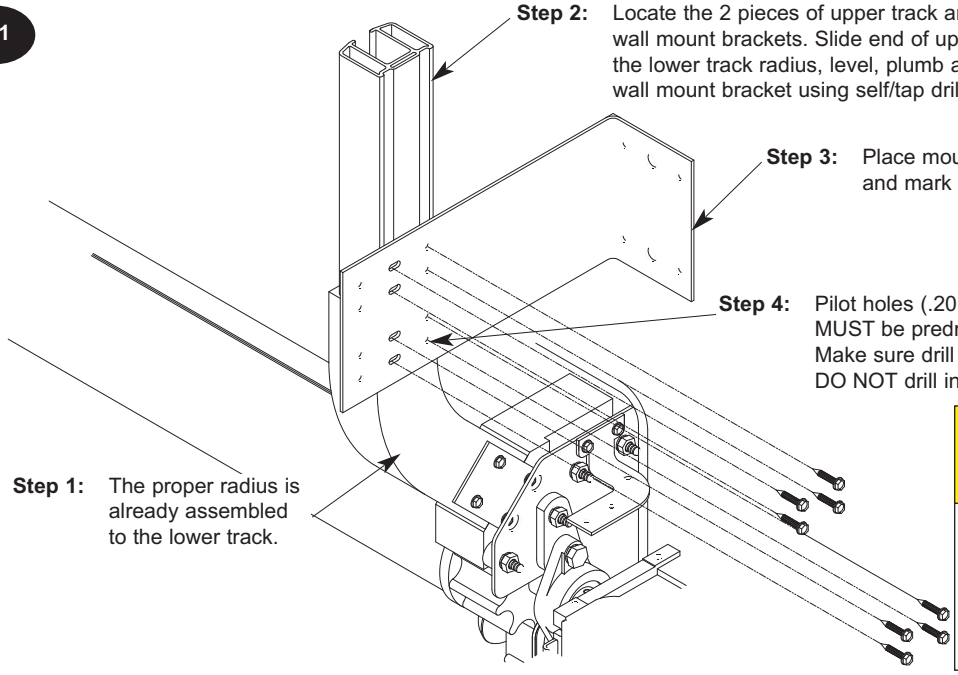
Step 3: Radial doors without a center shroud require spreader bar. Attach bracket to radial with (4) 3/8-16 x 4" bolts, flat washers and lock nuts

Step 4: Cut wire tie holding non-drive photoeye cables and route cables thru hole in non-drive radial and across the top of the opening and fasten to wall using the cable clamps provided. Then route thru hole in drive radial.

Step 5: Rear roller on radial is factory installed and must be in place to ensure a smooth curtain transition.

CHAPTER 4 - UPPER TRACK VERTICAL ONLY

9.1



Step 1: The proper radius is already assembled to the lower track.

Step 2: Locate the 2 pieces of upper track and the supplied wall mount brackets. Slide end of upper track into the lower track radius, level, plumb and fasten to wall mount bracket using self/tap drill screws

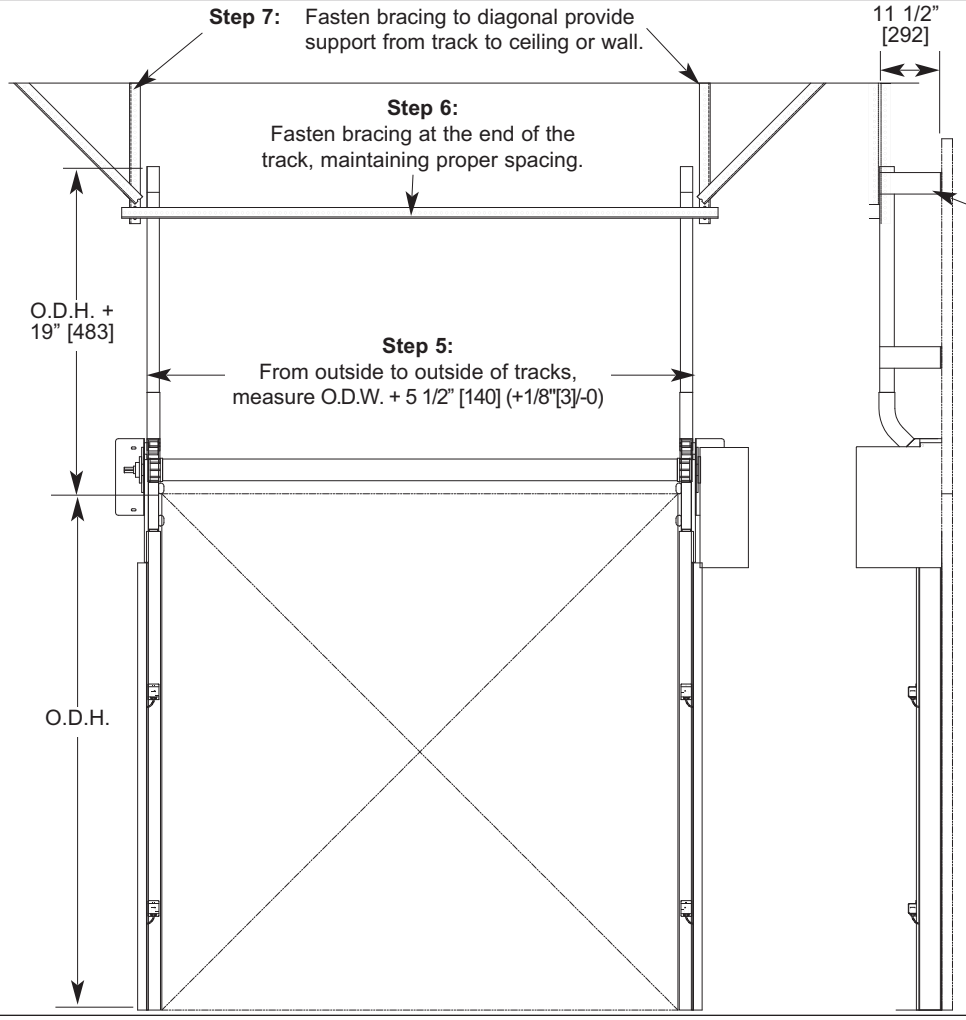
Step 3: Place mounting bracket in position and mark holes to be drilled in wall

Step 4: Pilot holes (.201Ø x 1 1/4" [5x32] deep) MUST be predrilled into lower track radius. Make sure drill is perpendicular and level, DO NOT drill into curtain groove.

⚠ CAUTION!!

Make sure to place screws so they go into the outer cavities of the upper track and not into the curtain groove. The drill MUST be held perpendicular and level to ensure screw does not go into groove.

9.2



Step 5: From outside to outside of tracks, measure O.D.W. + 5 1/2" [140] (+1/8"[3]/-0)

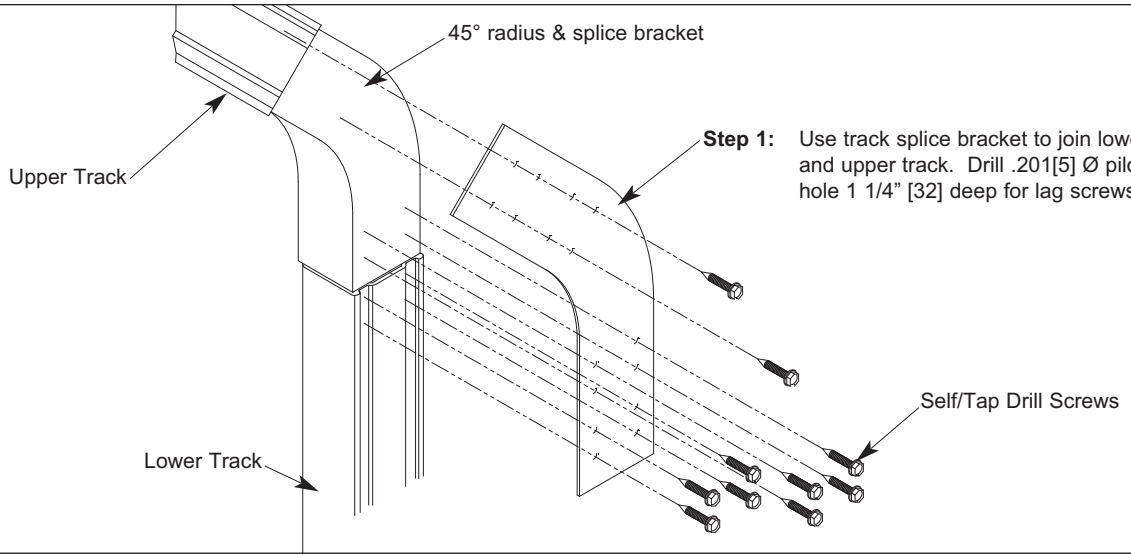
Step 6: Fasten bracing at the end of the track, maintaining proper spacing.

Step 7: Fasten bracing to diagonal provide support from track to ceiling or wall.

Step 8: Fasten mounting brackets to the wall and then the upper track.

CHAPTER 4 - UPPER TRACK 45° TILT ONLY

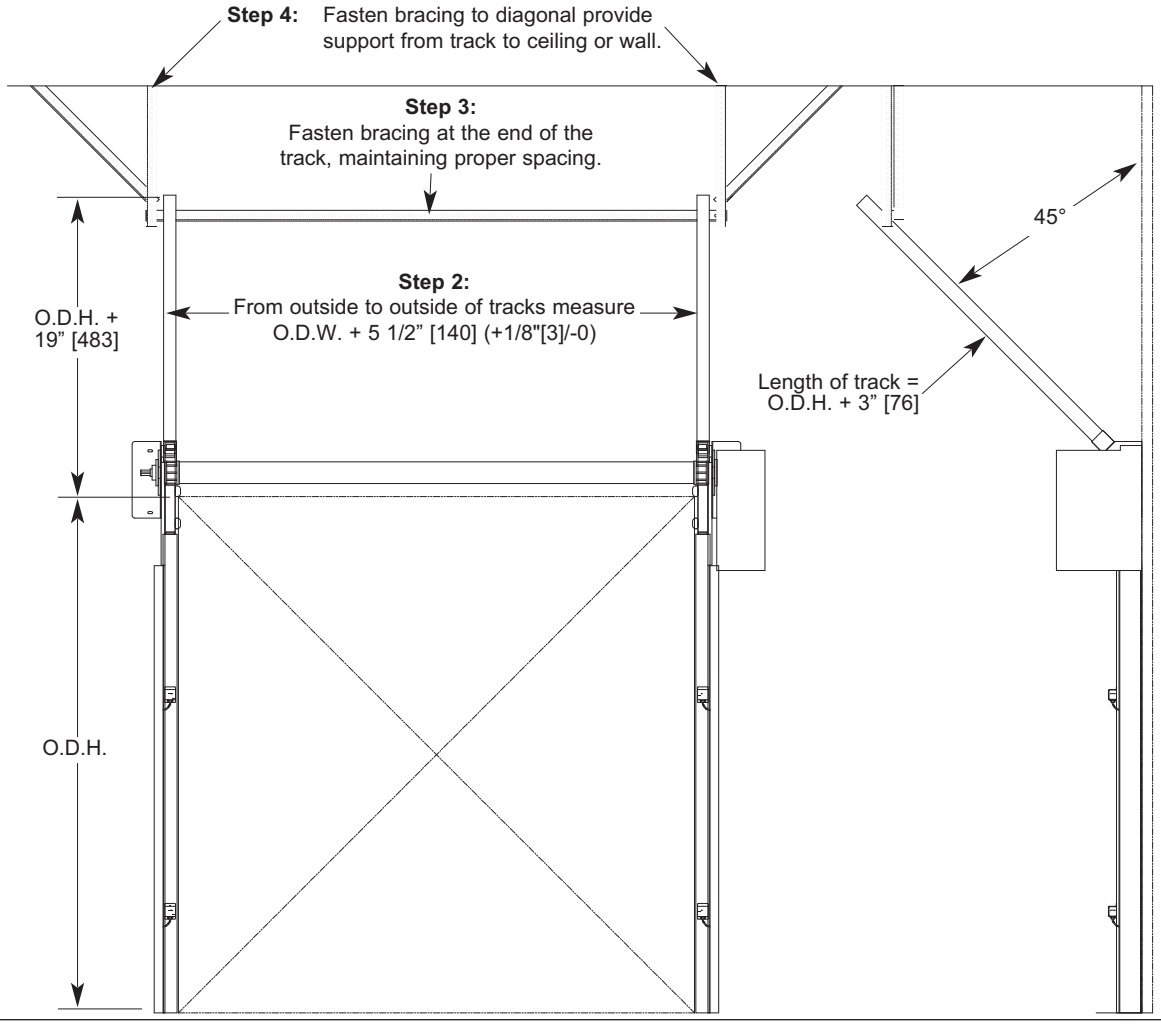
10.1



CAUTION !!!

Make sure to place screws so they go into the outer cavities of the upper track and not into the curtain groove. The drill MUST be held perpendicular and level to ensure screw does not go into groove.

10.2

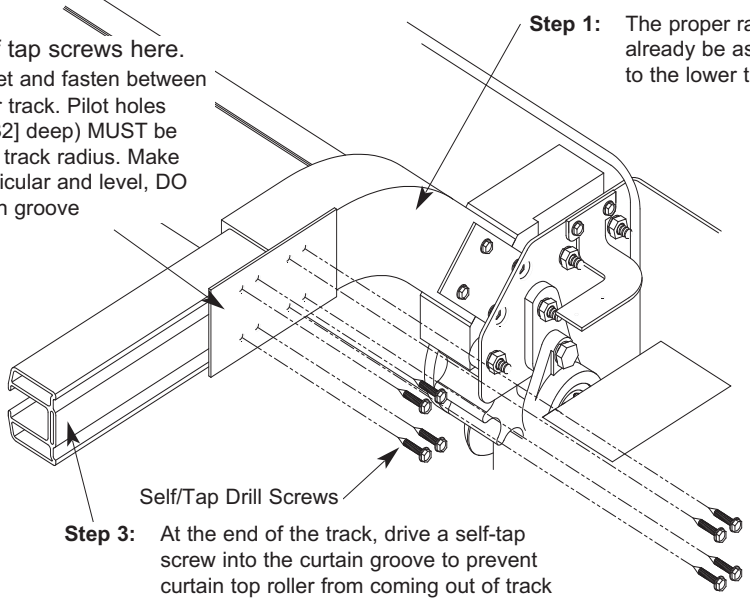


CHAPTER 4 - UPPER TRACK STANDARD LIFT ONLY

11.1

Step 1: The proper radius is already be assembled to the lower track.

Step 2: DO NOT Use self tap screws here.
Locate splice bracket and fasten between the upper and lower track. Pilot holes (.201Ø x 1 1/4" [5x32] deep) MUST be predrilled into lower track radius. Make sure drill is perpendicular and level, DO NOT drill into curtain groove



Step 3: At the end of the track, drive a self-tap screw into the curtain groove to prevent curtain top roller from coming out of track

⚠ CAUTION !!!

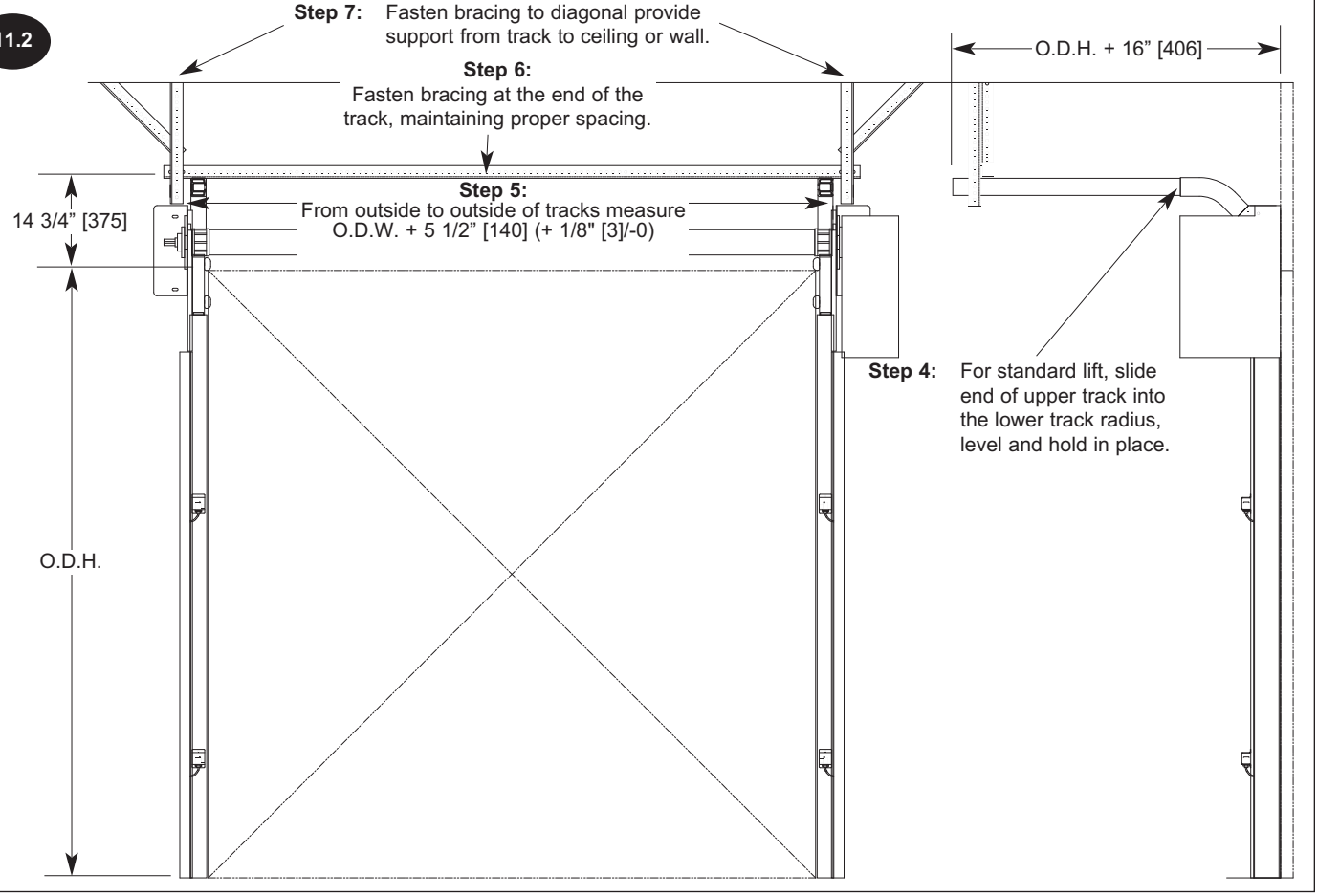
Make sure to place screws so they go into the outer cavities of the upper track and not into the curtain groove. The drill MUST be held perpendicular and level to ensure screw does not go into groove.

11.2

Step 7: Fasten bracing to diagonal provide support from track to ceiling or wall.

Step 6: Fasten bracing at the end of the track, maintaining proper spacing.

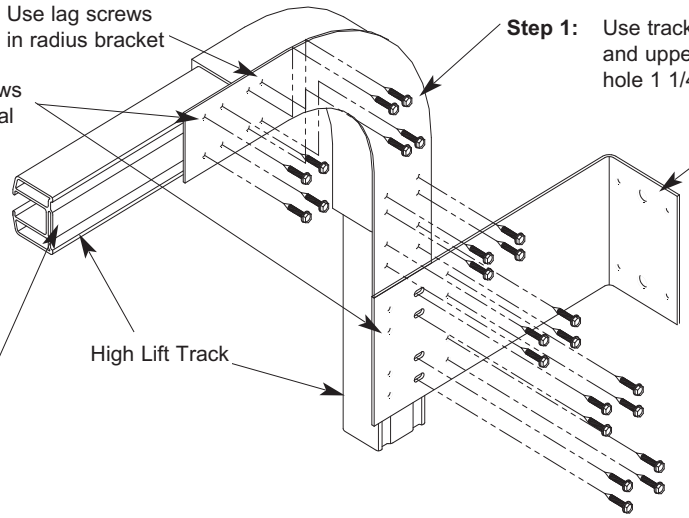
Step 5: From outside to outside of tracks measure O.D.W. + 5 1/2" [140] (+ 1/8" [3]/-0)



Step 4: For standard lift, slide end of upper track into the lower track radius, level and hold in place.

CHAPTER 4 - UPPER TRACK HIGH LIFT ONLY

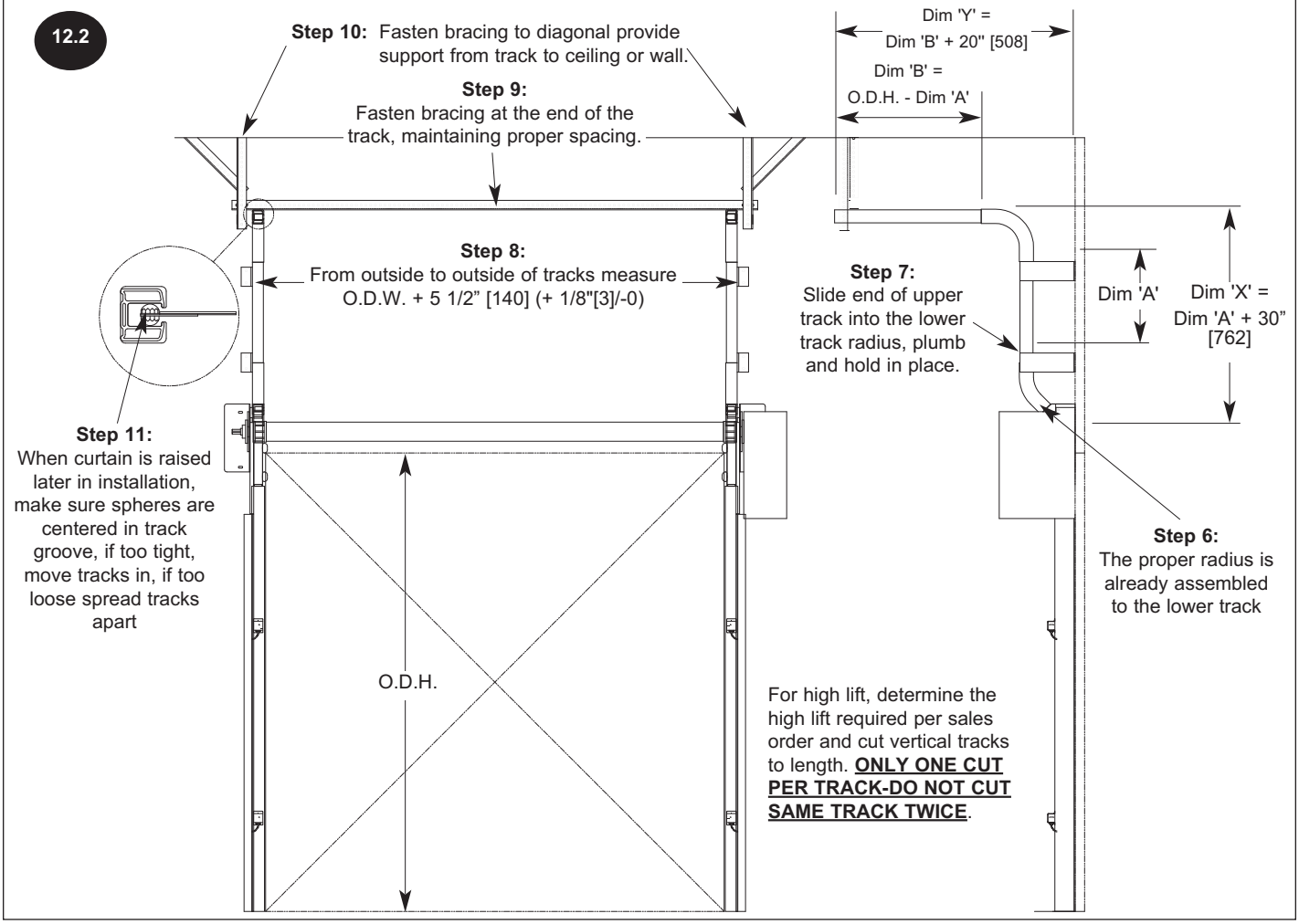
12.1



⚠ CAUTION !!!

Make sure to place screws so they go into the outer cavities of the upper track and not into the curtain groove. The drill MUST be held perpendicular and level to ensure screw does not go into groove.

12.2



RITE-HITE DOORS NOTES PAGE

This page intentional left blank.

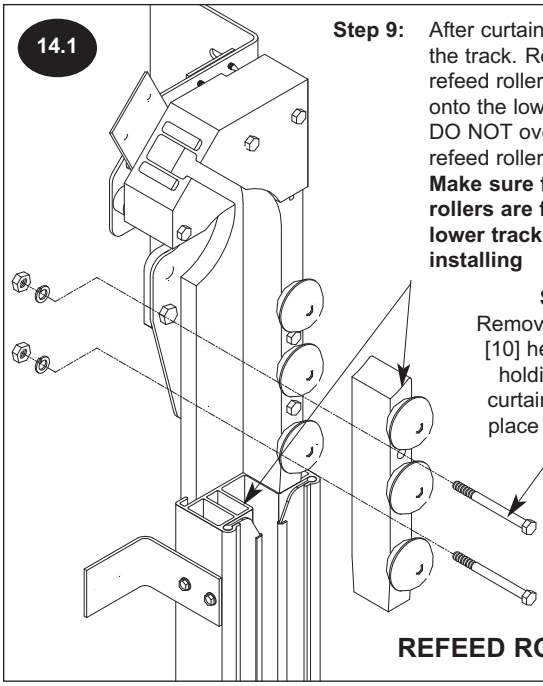
CHAPTER 5 - CURTAIN INSTALLATION

MOTOR PHASING

Note: If electrical is available, bypass *Figures 14.1 - 14.3* and proceed to Electrical Installation on *Page 16,* and then return here. If electrical is not complete, proceed to install curtain per *Figures 14.1 - 14.3*

1. With electrical complete, turn disconnect to "ON".
2. When pressing the "OPEN" button, the drive tube should rotate counter-clockwise on right hand drive door and clockwise on left hand drive door. (The back of the tube should be turning toward the ceiling.)
3. If the drive tube rotates in the opposite direction, switch wires in motor terminals U & V.

14.1



Step 9: After curtain is fully into the track. Re-install front refeed rollers back onto the lower track. DO NOT overtighten front refeed rollers fasteners. **Make sure front refeed rollers are flush with lower track when installing**

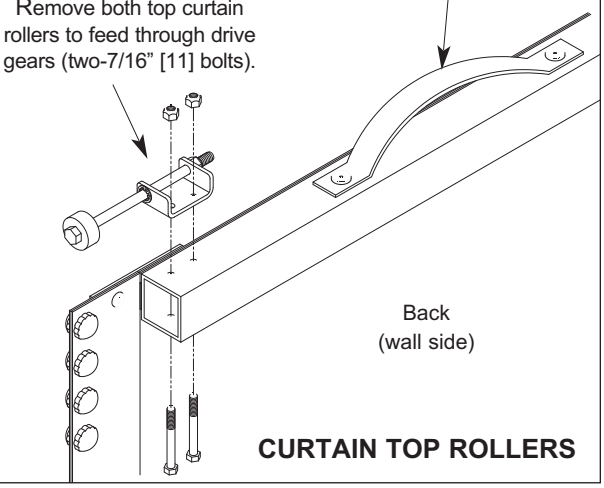
Step 1: Remove the two 3/8" [10] hex head bolts holding the front curtain retainers in place (both sides).

REFEED ROLLERS

IMPORTANT!!!

***Top curtain roller bracket should be positioned such that the roller shaft is toward the curtain and away from the wall.**

14.2



Step 2: Remove both top curtain rollers to feed through drive gears (two-7/16" [11] bolts).

CURTAIN TOP ROLLERS

14.3

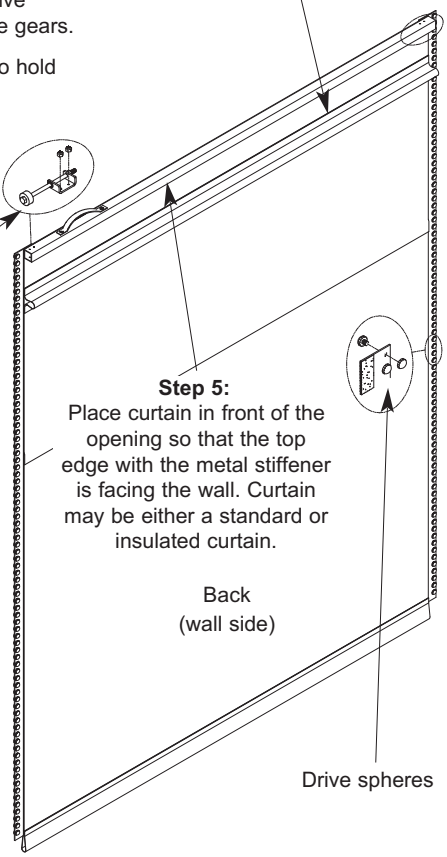
CURTAIN INSTALLATION

Step 4: Disengage brake by pulling the handle on the brake and locking in place, *Figure 27.3.*

Step 6: Raise curtain and feed top drive sphere around the back side of the drive gear and into the radius and/or upper track approximately 6" [152] by rotating drive tube to drive curtain through the drive gears.

Release brake handle to hold curtain.

Step 3: Verify there is a wall surface at the header for the rear top seal to seal against. If not, one must be provided in order for curtain to seal to wall.



Step 7: Fasten curtain top roller bracket back onto the curtain brace. Refer to *Figure 14.2.*

Step 5: Place curtain in front of the opening so that the top edge with the metal stiffener is facing the wall. Curtain may be either a standard or insulated curtain.

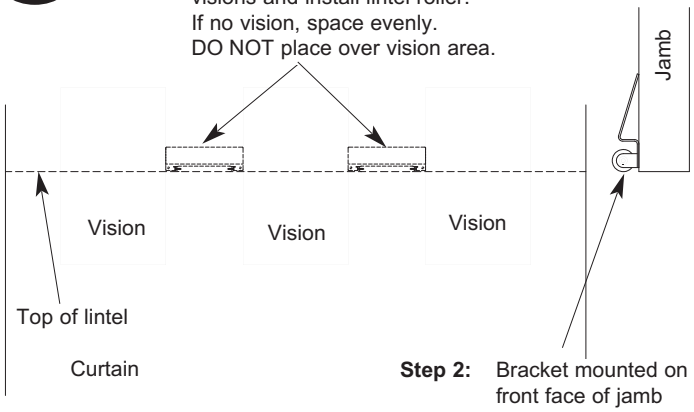
Back
(wall side)

Step 8: Once top rollers are securely fastened, disengage brake and continue to route curtain through opening in lower track. Refer to *Figure 14.1.*

Drive spheres

14.4

Step 1: Place curtain so the vision is at the lintel. Place a mark on the wall at the center of visions and install lintel roller. If no vision, space evenly. DO NOT place over vision area.

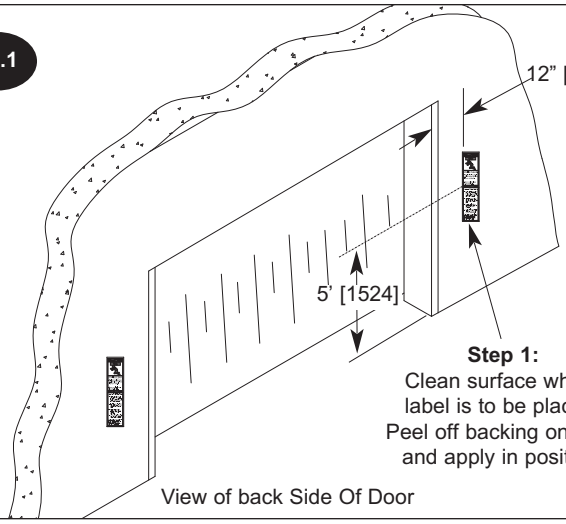


Step 2: Bracket mounted on front face of jamb with bottom of roller flush with jamb. DO NOT install on underside of jamb.

LINTEL ROLLER

CHAPTER 6 - LABELS / I-ZONE / SHROUD

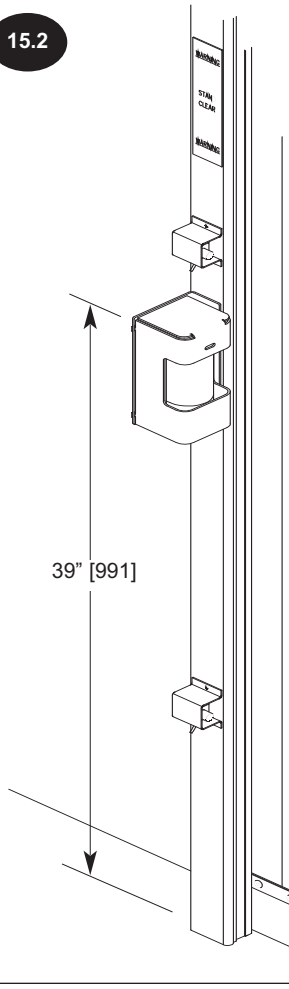
15.1



Step 1:
Clean surface where label is to be placed. Peel off backing on label and apply in position.

View of back Side Of Door

15.2



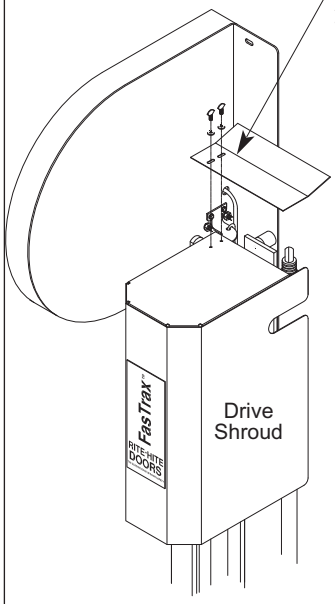
Optional

Step 1:
Mount I-Zone sensors to the lower tracks and route cables to the control box.

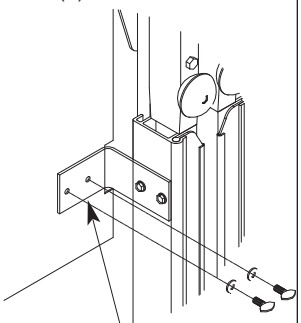
Step 2:
Lights on sensor will flash for 30 seconds on power up.

Step 3:
Alarm should be tested by removing the plastic cover from one of the I-ZONE sensors. After 30 seconds the alarm will sound. (Door should be in the open position during this test.)

15.3



Step 1:
Align extension bracket slots with holes in drive shroud and attach to upper mounting bracket with (2) thumb screws.



Step 2:
Place drive shroud into position and attach to lower mounting bracket with (2) thumb screws.

DRIVE SHROUD INSTALLATION

IMPORTANT!!!

Curtain needs to be stopped at or before it reaches the top of the jamb.

⚠ WARNING!!!

The curtain may close very quickly if the brake is fully released. Releasing the brake partially will allow the door to close smoothly. Failure to restrict the curtain speed, can result in damage to product or injury to personnel.

CHAPTER 7 - 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.

IMPORTANT!!!

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

CAUTION !!!

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

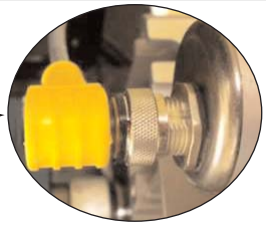
IMPORTANT!!!

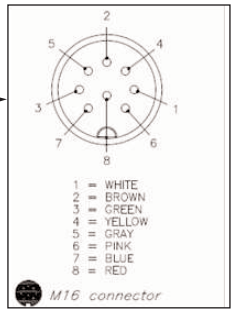
In freezer and cooler applications where a conduit passes from a warm to cold temperature zone, the conduit must be plugged with epoxy. This will help prevent condensation from forming in the conduit. For more information, see Section 300-7a of the National Electric Code.

IMPORTANT!!!

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.

16.1





Step 5:
Connect encoder cable to encoder. Make sure to line up pins properly. Make sure connector is tight, but do not over-tighten, as pins will twist. Once tight, the connector should not be able to move back and forth.

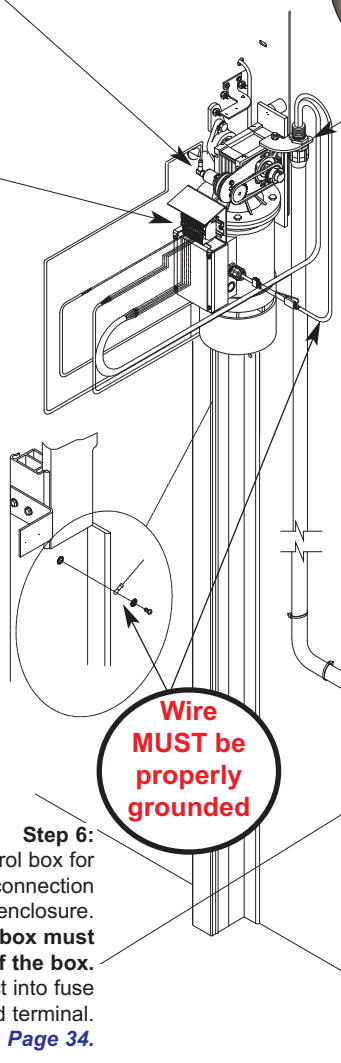
Step 4:
Connect photoeye and/or optional I-Zone wires using electrical drawing on ***Page 34.***

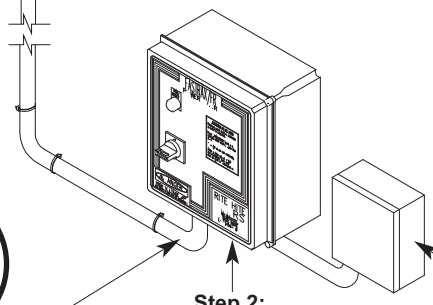
Step 3:
Attach control cable to the conduit mounting bracket, then route to the conduit fitting on the bottom of the control box. If the flexible conduit is too long, cut the protective outer casing and leave 16" to 20" [406 - 508] of wires. Clamp conduit to wall after the correct length is achieved.

Local electrical codes may require the use of rigid conduit rather than flexible conduit, if so, remove conduit connector, control cables from the flexible conduit and install the rigid conduit in its place and rewire.

Electrical Notes:

- Route all field installed wires so that separation is maintained between line voltage wires and low voltage class II wiring.
- The incoming power terminals in the control box will not accommodate wires larger than 12AWG. 20 or 30 Amp service may be required for cable runs longer than 300' [91,440].
- The control box is provided with class CC protective fusing for the incoming power.





Step 6:
Drill a hole in the bottom of the control box for the incoming power using the proper connection to maintain the NEMA rating on the enclosure. **All holes drilled through the control box must be through the bottom of the box.** Incoming 3-phase power must connect into fuse holder terminals F1, F2, F3 and ground terminal. See electrical drawing on ***Page 34.***

Step 2:
It is recommended to mount control box adjacent to the door at approximately 54" [1372] above the floor. If possible mount on the warm side regardless of door mount side.

Step 1:
It is the responsibility of the buyer to provide electrical service up to the control box with proper branch service protection and an approved means of disconnect.

CHAPTER 7 - ELECTRICAL INSTALLATION

⚠ WARNING!!!

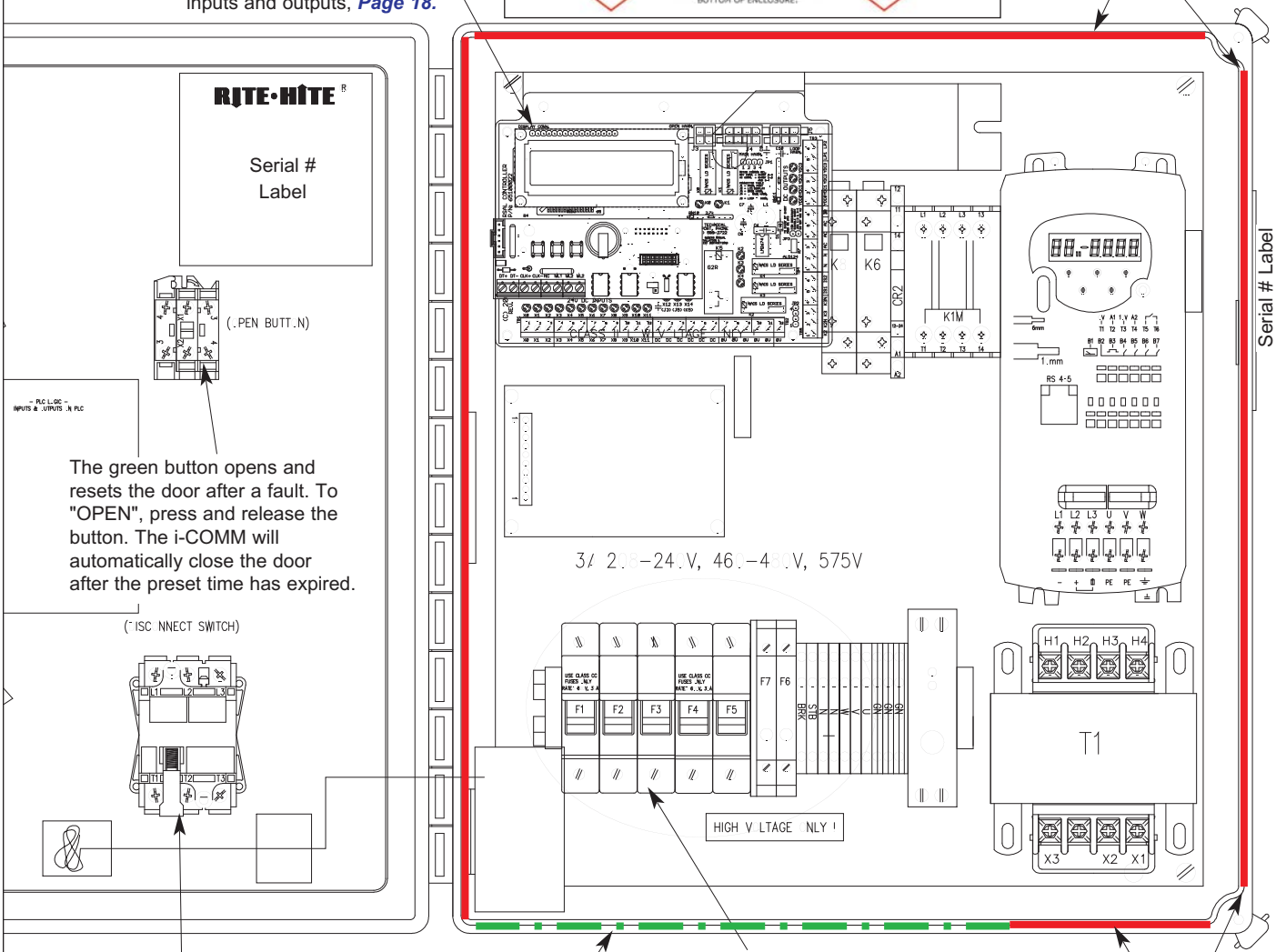
DO NOT DRILL HOLES ON TOP OF CONTROL BOX TO RUN CONDUIT, AS DUST PARTICLES AND MOISTURE MAY CAUSE DAMAGE TO ELECTRICAL COMPONENTS. THE SAFEST LOCATION IS AT THE BOTTOM. FAILURE TO DO SO, WILL VOID WARRANTY

17.1

The i-COMM is used to control all functions of the door.

Note label inside control box that is a ready reference to the i-COMM inputs and outputs, *Page 18.*

Red Bold Solid Line Indicates Un-Safe Area for Drilling Holes



The green button opens and resets the door after a fault. To "OPEN", press and release the button. The i-COMM will automatically close the door after the preset time has expired.

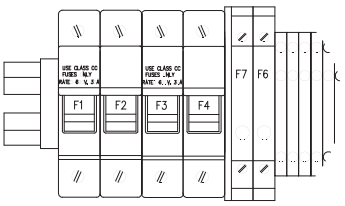
The red Disconnect Switch stops door operation. The control is rotated to the "ON" position for normal door operation. To stop door operation rotate the control to the "OFF" position.
Whenever the door operation is stopped by using the disconnect switch, you must do the following to resume operation.

1. Rotate the red disconnect switch to the "ON" position.
2. Press the "OPEN/RESET" button to reset and open the door.

Green Bold Dashed Line Indicates Safe Area for Drilling Holes

Incoming Power Terminals F1, F2, F3 for 230/460/400/575V 3Ø Configuration

Incoming Power Terminals F1, F2 for 220V 1Ø Configuration



Red Bold Solid Line Indicates Un-Safe Area for Drilling Holes

CHAPTER 7 - i-COMM LOGIC CHART

RITE-HITE® DOORS

FasTrax Encoder™
i-COMM Quick Reference

Input Table

Input	Input Function	Comments	Note(s)
XO	Open PB	On to open door	1
X1	Stop PB	On to stop door	1
X2	Torque Reverse	Off to reverse door	
X3,X6,X7	Activation Command	On to open door	1
X4	Close PB	On to close door	1
X5	Toggle Command	On to toggle open or close	1
X8,X9	IZone Sensors (Right & Left)	Not Available on FasTraxCL	
X10	18" Photoeye Input	Must be on for door to close. Off when blocked.	
X11	54" Photoeye Input	Must be on for door to close. Off when blocked.	
X12	Open/Reset Switch	On to reset from fault.	2
X13	Induction Loop Activation	On to open door	2
X14	Fault Input	Must be on for door to run.	

Encoder Adjustment Descriptions
(Refer to i-COMM and Owners Manuals for additional detail)

Open Distance	Use this option to set the overall opening distance of the door (in feet). For example, or an 9 foot tall FasTrax, this option should be set to "8" (to allow room for fine adjustment). This measurement is used for initial position setup only. For small adjustments of the open and close position, use "Close Position Adjust" or "Open Position Adjust"
Set Open Position	Use this option for initial position setup. Manually place door in the open position and select this option. Alternatively "Set Close Pos." can be used if it is more convenient to place the door in the closed position. NOTE: This option approximately sets the open and close positions. For additional adjustment of the open and close position, use "Close Position Adjust" or "Open Position Adjust"
Set Close Position	Use this option for initial position setup. Manually place door in the close position and select this option. Alternatively "Set Open Pos." can be used if it is more convenient to place the door in the open position. NOTE: This option approximately sets the open and close positions. For additional adjustment of the open and close position, use "Close Position Adjust" or "Open Position Adjust"
Open Position Adjust	Use this option to make small adjustment to the open position. The number displayed is the measurement between the open and closed position. For example if this option was set to 100" the door would open 100 inches from the closed position It is recommended to adjust the closed position of the door first, before adjusting the open position.
Close Position Adjust	Use this option to make small adjustment to the closed position. The number displayed is the relative displacement of the closed position. For example, if this option was set to -1.0" the door would closed approximately 1.0 inch more. option was set to 2.0" the door would close 2.0 inches

Timer Adjustment

1. PRESS [ENTER], Controller will stop and fault door.
2. Press [UP] until desired timer is displayed, display will read "Set Close Timer" or "Set Preannounce".
3. Press [ENTER], Display will show current timer value.
4. Using [UP] & [DOWN] keys select desired time.
5. Press [ENTER] to return to Main Menu.
6. Press [DOWN] until exit is displayed.
7. Press [ENTER] to save values.
8. Reset Door.

Preannounce Timer is the amount of time the Preannounce to close output will be on before door closes.
Close Timer is the amount of time the door will remain open before the preannounce to close timer activates

NOTES:

(1) Default setting shown in table & comments. Record any changes on space provided. Consult i-COMM manual for additional details.

(2) Device operation can be changed through menu. Consult i-COMM manual for additional details.

53850564-1

CHAPTER 7 - ENCODER SETUP

ENCODER SETUP INSTRUCTIONS

1. Verify wiring to encoder is properly terminated.

   Note: right-hand drive doors require a wire to be terminated in the 'DC' terminal, while left-hand drive doors do not. If motor phase is changed during this setup, please restart this procedure.

2. Move curtain to closed position.

3. Power up door and press enter button to enter **"MAIN MENU".**

4. Using down arrow, scroll to **"Open Distance".**

5. Press enter button to view parameter value (measured in feet), should be O.D.H. - (two) 2'. Change the value using the up or down arrow keys, round down if required, then press enter to return to **"MAIN MENU".**

6. Scroll using down arrow to item **"Set Close Pos."**.

7. Press enter button to view parameter. The controller will display the following message "RESET ALL LIMITS" … **"Press Up to Start".** Pressing the up arrow key will reset all of the limits, and reboot the controller.

   NOTE: DO NOT use this menu item to make adjustment to the limits; this is only for initial setup.

8. Press green Open/Reset button.

   a. The door should begin to open, be ready to shutdown the door if it begins to move in the wrong direction. If motor phase is changed, start over at step #2.

   b. If rotation is correct proceed to the instructions for adjusting the "Open and Close positions".

Open and Close Position Adjustment

To adjust CLOSE position:

1. Power up door and press enter button to enter **"MAIN MENU".**

2. Scroll using up arrow to the item **"Close Pos. Adjust".**

3. Press enter button to view parameter value. This parameter will show a coded value on the left and relative change in inches on the right. When entering this parameter the value will always start at 0.0".

   Change values using the up or down arrows.

   To bring the curtain closer to the floor, adjust this value so that it is less than zero. (i.e. To close the door 4" more, the value for **"Close Pos. Adjust"** will be -4.0") Moving this parameter in the positive direction raises the curtain relative to the floor. Changing this value will not affect the open position.

Note: If you leave this parameter and return to it, its value will again be zero. Any changes made before leaving the parameter will still be effective. For example: If you lowered the door 4.0", leave the parameter and return, the parameter will display 0.0". Even though the display shows 0.0" the -4.0" change has been recorded.

4. When parameter is changed press enter button for three (3) seconds to return to the **"MAIN MENU".**

5. Test operation of door and continue adjustment.

TIP: At any point in the menu mode, Pressing and holding the enter button for at least 2 seconds will cause the controller to automatically accept all the changes made and exit the menu system.

To adjust the OPEN position:

1. Power up door and press enter button to enter **"MAIN MENU".**

2. Using up arrow key, scroll to **"Open Pos. Adjust".**

3. Press enter button to view parameter value. This parameter will show a coded value on the left and the opening height in inches on the right. This value will always be less than the door opening height.

   Change the value using the up and down arrow keys.

   To bring the open position down (closer to the floor) adjust this value to be less than the current value. To open the door more relative to the floor, adjust this parameter in a positive direction. (i.e. To open the door 4" more, and the current value is 72.0". Change the value for **"Open Pos. Adjust"** to be 76.0"). Changing this value will not affect the close position.

4. When parameter is changed press enter button for three (3) seconds to return to the **"MAIN MENU".**

5. Test operation of the door, and continue adjustment.

ENCODER PROGRAMMING

OPTION	DESCRIPTION
Open Distance	Use this option to set the overall opening distance of the door (in feet). For example, for an 8' tall FasTrax. This option should be set to "7" [178]. This measurement is used for initial position setup only. For small adjustments of the open and close position, use "Close Position Adjust" or "Open Position Adjust"
Set Open Pos	Use this option for initial position setup. Manually place door in the open position and select this option. Alternatively "Set Close Pos." can be used if it is more convenient to place the door in the closed position. NOTE: This option approximately sets the open and close positions. For additional adjustment of the open and close position, use "Close Position Adjust" or "Open Position Adjust"
Set Close Pos	Use this option for initial position setup. Manually place door in the close position and select this option. Alternatively "Set Open Pos." can be used if it is more convenient to place the door in the open position. NOTE: This option approximately sets the open and close positions. For additional adjustment of the open and close position, use "Close Position Adjust" or "Open Position Adjust"
Open Pos Adjust	Use this option to make small adjustment to the open position. The number displayed is the measurement between the open and closed position. For example if this option was set to 100" [2540] the door would open 100 inches from the closed position. It is recommended to adjust the closed position of the door first, before adjusting the open position.
Close Pos Adjust	Use this option to make small adjustment to the closed position. The number displayed is the relative displacement of the closed position. For example, if this option was set to -1.0"[-25] the door would close approximately 1.0" [25] more. If this option was set to 2.0" [51] the door would close 2.0" [51] less.
Apr Open Pos	Use this option to adjust the approach open position. This option is a measurement in inches from the open position. For example, if this option was set to 24.0" [610] the door would slow down 24.0" [610] from the open position.
Encoder Startup	The controller is waiting for valid data from the encoder. It the controller does not receive a response at startup, this will remain on the screen indefinitely. If this does not clear with 5 seconds, please check all encoder wiring.
Encoder Read	The controller is unable to read valid data from the encoder. Check all wiring. Ensure that the shield on the encoder cable is connected to ground, and that the control box is grounded. The error requires the power to be cycled to reset.
Encoder Velocity	The controller has received a signal from the encoder that the door is moving faster than allowed. This can occur if the encoder is not properly attached to the shaft, bad electrical connection to the i-COMM, or improper grounding. The error requires the power to be cycled to reset.

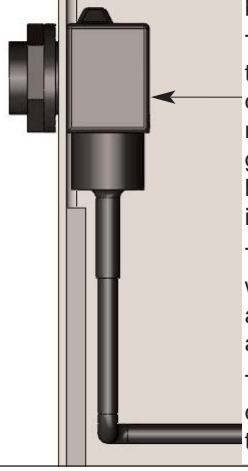
CHAPTER 8 - DOOR OPERATION / FINAL CHECKLIST

VERIFY DOOR OPERATION / CHECKLIST

1. It is recommended that the operation of all controls on the FasTrax be verified monthly.
2. The door operations are controlled by a Universal Controller. The controller 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 program.
3. A quick way of determining that the door is ready to operate, is to open the control box and look at the row of (X) green Input LED's on the i-COMM and the label to verify proper state.
4. Are door opening dimensions correct ?
5. Tracks shimmed as required?
6. Tracks aligned when installing wall fasteners ?
7. Are the pillow block bearing set screws tightened to 66 to 80 in.-lb. ?
8. Check for proper line voltage ?
9. Are all mounting bolts tight ?
10. All wires connected for the photoeyes ?
11. Are loose wires secured away from moving parts?
12. 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 i-COMM controller.
13. 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 without excessive curtain ripple.

    If it is necessary to adjust either position, refer to Encoder adjustment section.
14. While the door is closing, block the reversing photoeyes. The door should reverse direction and move to the open position, and then continue to operate.
15. 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 in which the green button is flashing.
16. 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.
17. Pedestrians should be advised to use man doors when present and to not lean into the door way.
18. A fault will occur if the optional non-powered chain hoist chain is pulled, simply press the green flashing "OPEN/RESET" button to return to normal operation.
19. Motor shroud installed.
20. **Ground and Shield wires have been properly terminated.**

20.1



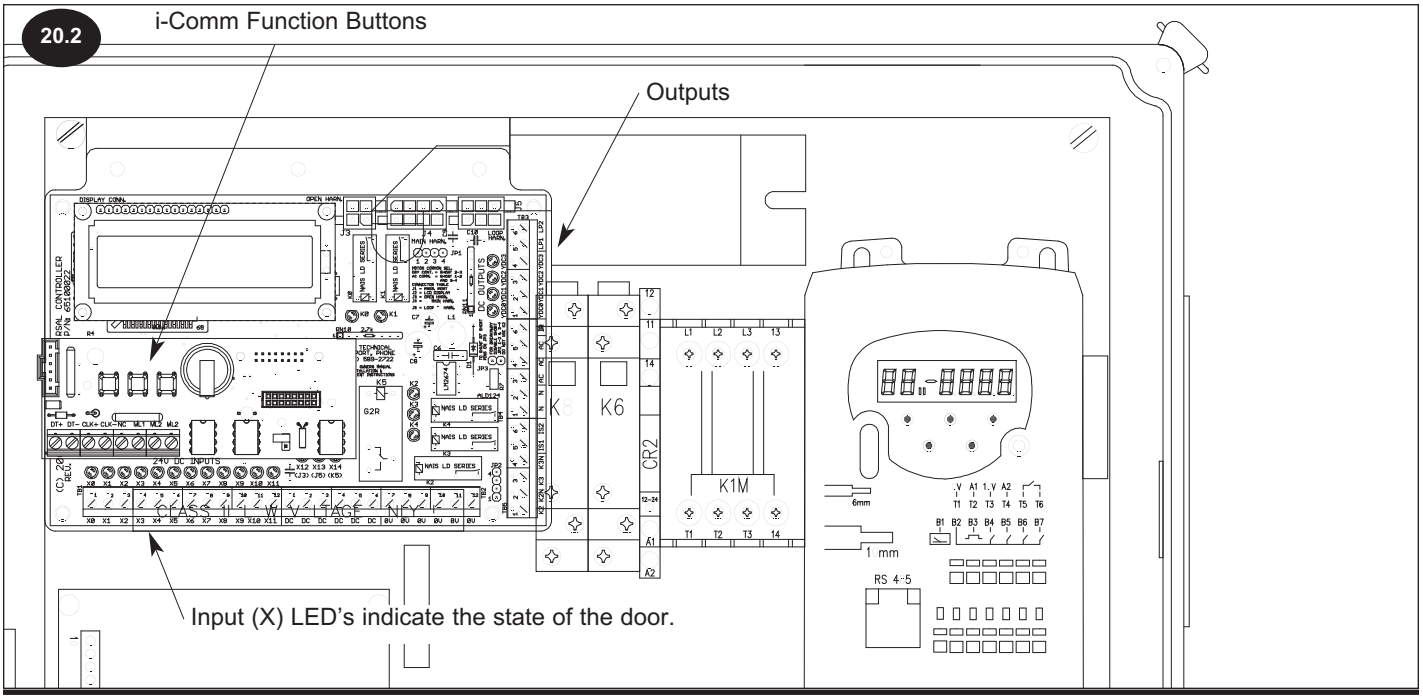
Locate the receiver photoeye on the drive side lower track. Located on the top of the photoeye are three LEDs.

The yellow LED will be on when the output is energized. The orange LED will be on when the margin is > 2.5. If the yellow and green LED's are OFF, either the beam is blocked or the photoeye is out of alignment.

The green LED should be on when the photoeye is powered and blocked causing the yellow and orange light to go off.

The source photoeye on the non-drive lower track will only have the green LED for power.

20.2



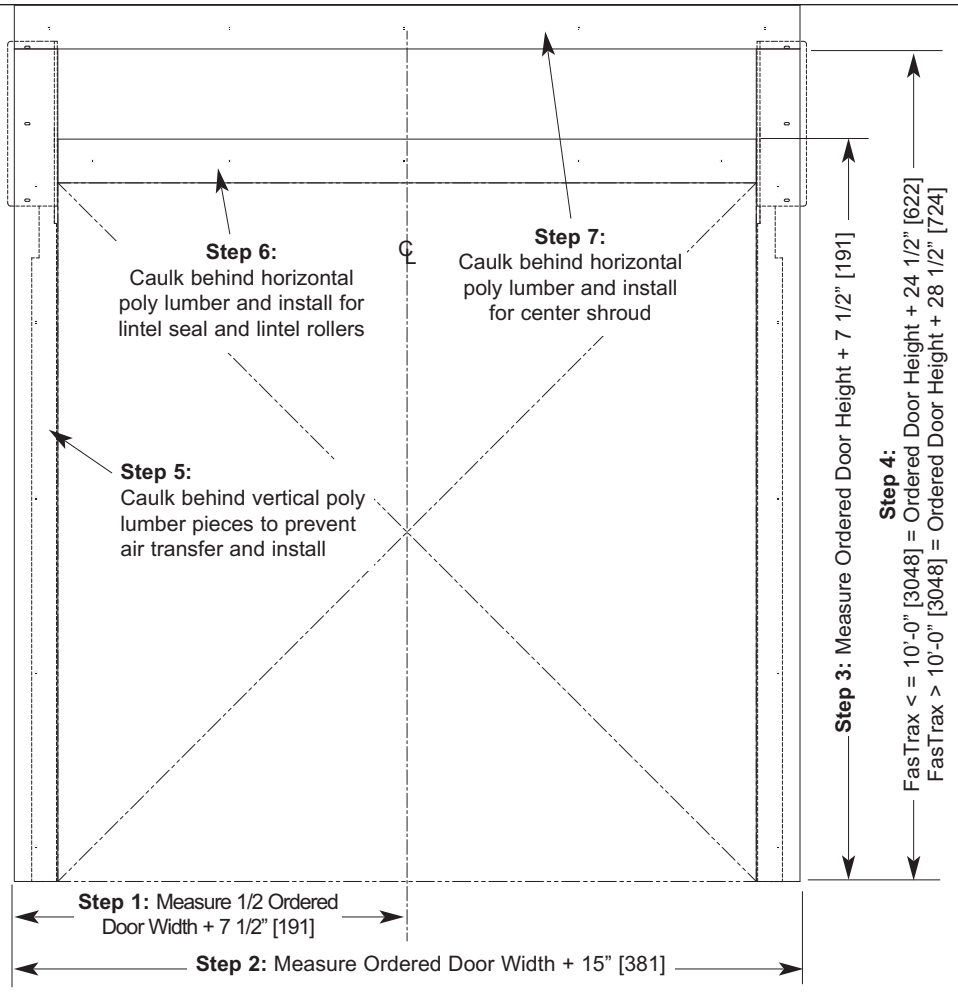
CHAPTER 8 - FINAL CHECKLIST

Complete	N/A	Description
-	-	Control box conduit mounting location (must be on the bottom)
-	-	Ground wires properly terminated
-	-	Shield wires properly terminated
-	-	Motor ground wire terminated to lower track
-	-	Encoder chain / sprockets / set screws properly aligned & tightened
-	-	Encoder cable tightened properly
-	-	Lower track properly spaced
-	-	Lower tracks caulked
-	-	Lower tracks square to wall
-	-	Lower tracks shimmed properly if jamb cap present
-	-	Wall mounting brackets securely fastened to wall
-	-	Photoeye wires properly secured to track or wall
-	-	Tracks / Radials lubricated
-	-	Track / Spreader bar in place (Radial or Non-Radial)
-	-	Upper track properly spaced
-	-	Upper track properly braced to wall
-	-	Drive tube level and evenly spaced
-	-	Lintel roller(s) installed properly (Non-FR)
-	-	Proper mounting fasteners used
-	-	Motor terminal strip wires securely fastened
-	-	Motor bumpers properly adjusted
-	-	Security chain in place
-	-	Drive shroud installed
-	-	Radial center shroud properly installed (Radial only)
-	-	Chain hoist properly installed (Optional)
-	-	If less than 8’ tall, make sure drive gear guards are in place (Optional)
-	-	Poly lumber properly installed (Optional)
-	-	FR – Air bag exhaust hole free and open (FR only)
-	-	FR – Blower properly mounted (FR only)
-	-	FR – Curtain fans properly installed (FR only)
-	-	FR – Step-down transformer and junction box properly installed (FR only)
-	-	Area clean of debris from installation
-	-	Notes: _____ 6/17/11

CHAPTER 9 - OPTIONS POLY LUMBER INSTALLATION

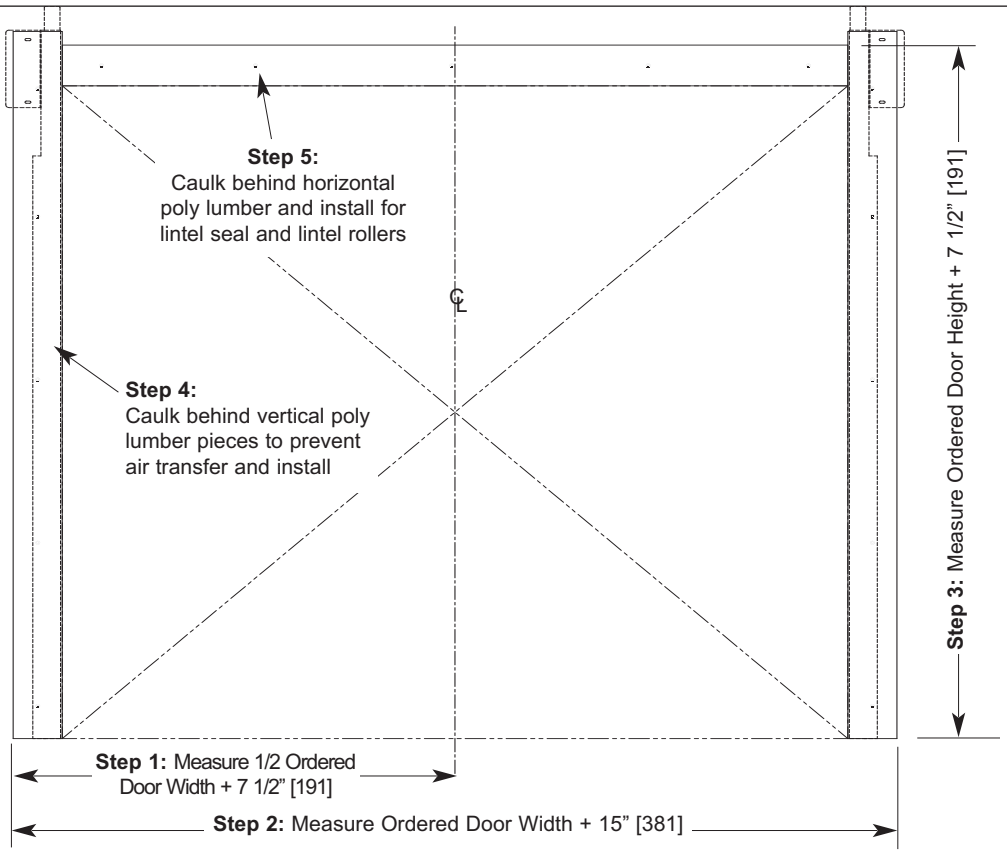
22.1

POLY LUMBER RADIAL



22.2

POLY LUMBER NON- RADIAL



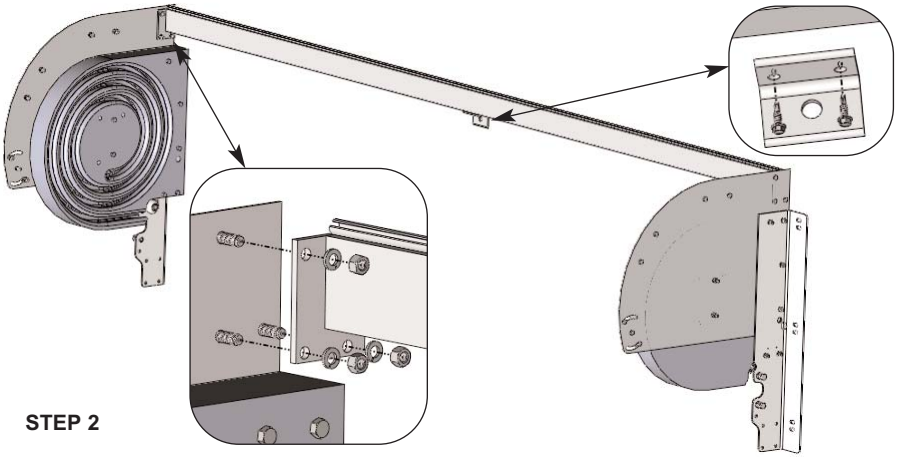
CHAPTER 9 - OPTIONS RADIAL SHROUD INSTALLATION

CENTER SHROUD

23.1

STEP 1

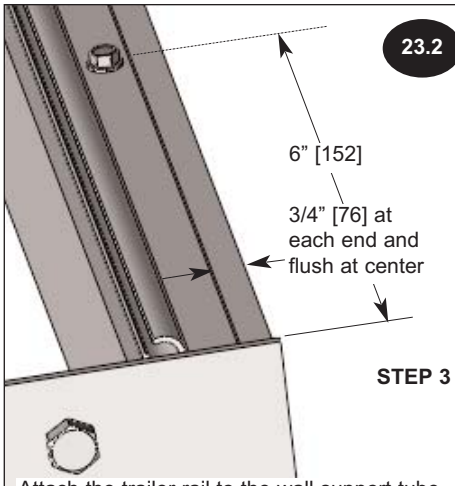
Locate components: (3 aluminum support tubes, 1 aluminum trailer rail, fabric cover, 12 self tapping screws, (18) 3/8" [10] hex nuts, flat washers and (18) 3/4" [76] lock washers.)



STEP 2

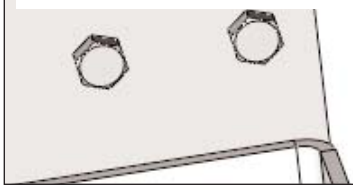
Using (6) bolts, nuts, flat and lock washers, fasten the tube ends to the radial end plates. Install wall mount bracket from the parts box in the best location available (recommended in the center of the opening). Install the fabric cover to the trailer rail.

23.2

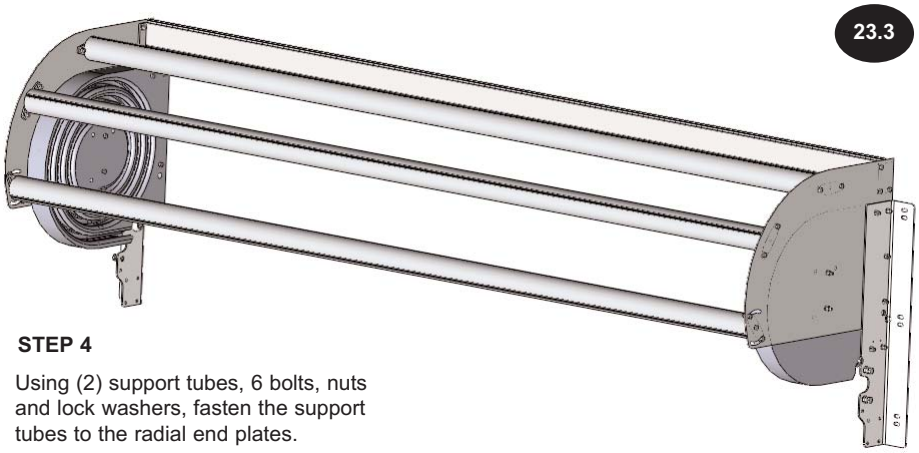


STEP 3

Attach the trailer rail to the wall support tube, flush to the back in the center and 3/4" [76] from the back on the ends. Screws will be attached in center, 6" [152] from each end and leave no greater than 2' [610] span between fasteners.



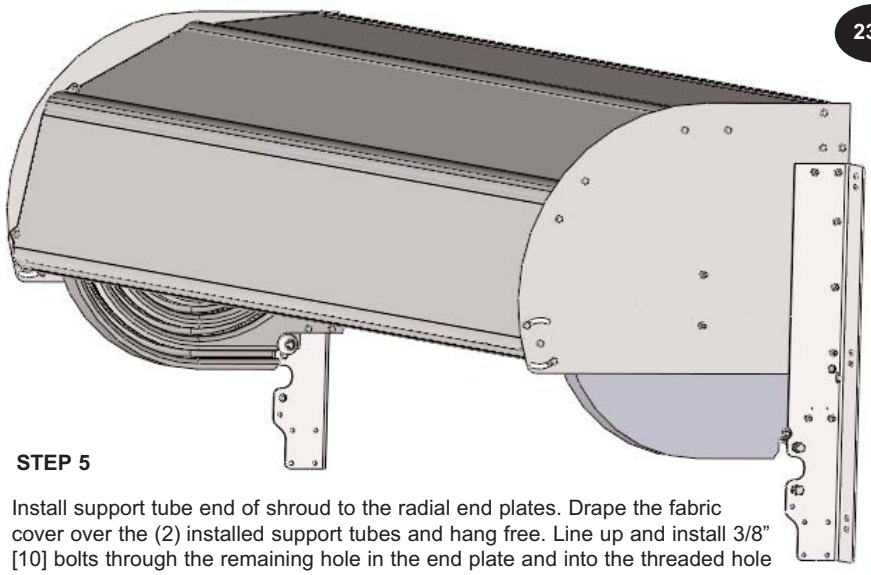
23.3



STEP 4

Using (2) support tubes, 6 bolts, nuts and lock washers, fasten the support tubes to the radial end plates.

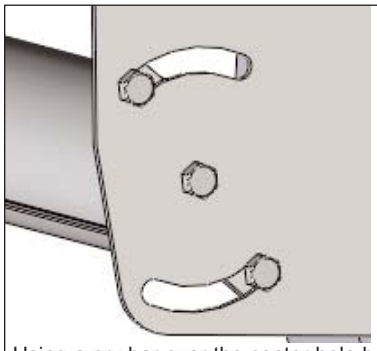
23.4



STEP 5

Install support tube end of shroud to the radial end plates. Drape the fabric cover over the (2) installed support tubes and hang free. Line up and install 3/8" [10] bolts through the remaining hole in the end plate and into the threaded hole in the center of the support tube mounting plate, (only thread these in about 1/2" [13]). Rotate the tube towards the wall as necessary and loosely install the remaining bolts, nuts, flat and lock washers through the slots in the end plate and holes in the support tube.

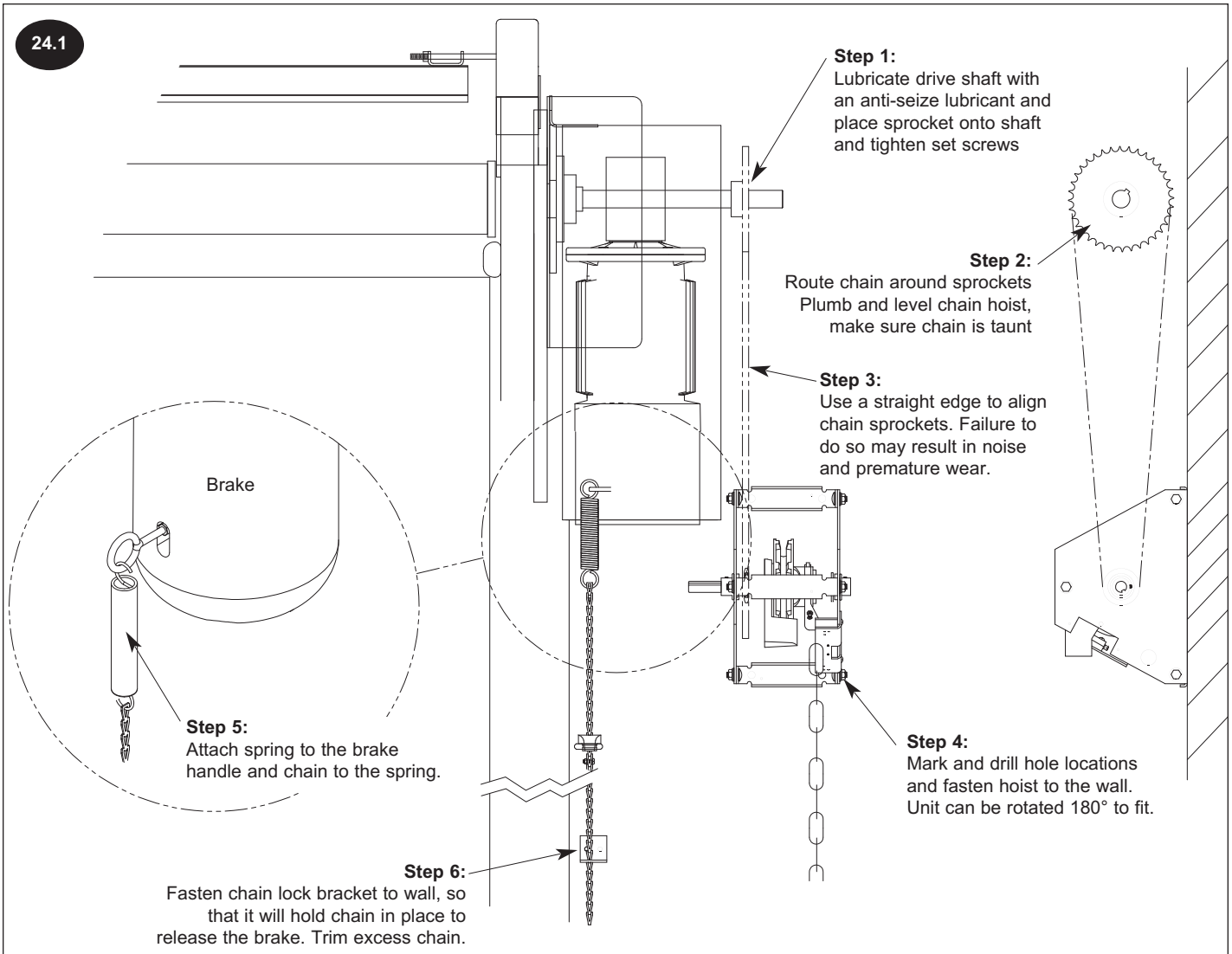
23.5



Using a pry bar over the center hole bolt and under the top slot bolt, torque the tube until the cover is tight and tighten the lower fastener, repeat for remaining bolts. Verify cover looks taught and tighten the (2) centering bolts.

CHAPTER 9 - OPTIONS BRAKE RELEASE / CHAIN HOIST

24.1



Step 1:
Lubricate drive shaft with an anti-seize lubricant and place sprocket onto shaft and tighten set screws

Step 2:
Route chain around sprockets
Plumb and level chain hoist, make sure chain is taunt

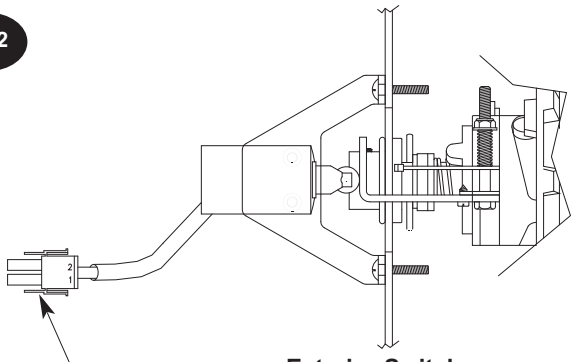
Step 3:
Use a straight edge to align chain sprockets. Failure to do so may result in noise and premature wear.

Step 4:
Mark and drill hole locations and fasten hoist to the wall. Unit can be rotated 180° to fit.

Step 5:
Attach spring to the brake handle and chain to the spring.

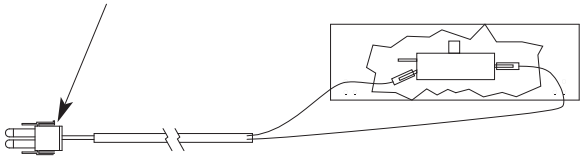
Step 6:
Fasten chain lock bracket to wall, so that it will hold chain in place to release the brake. Trim excess chain.

24.2



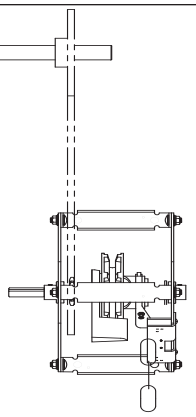
Exterior Switch

Step 7:
Plug in cable and wire chain hoist into control box per electrical drawing on ***Page 34.***

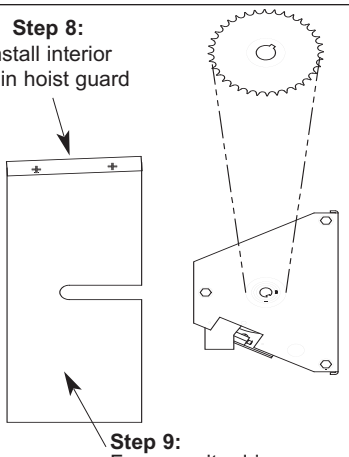


Interior Switch

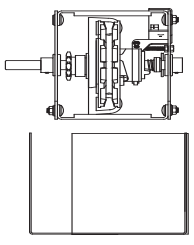
24.3



Step 8:
Install interior chain hoist guard



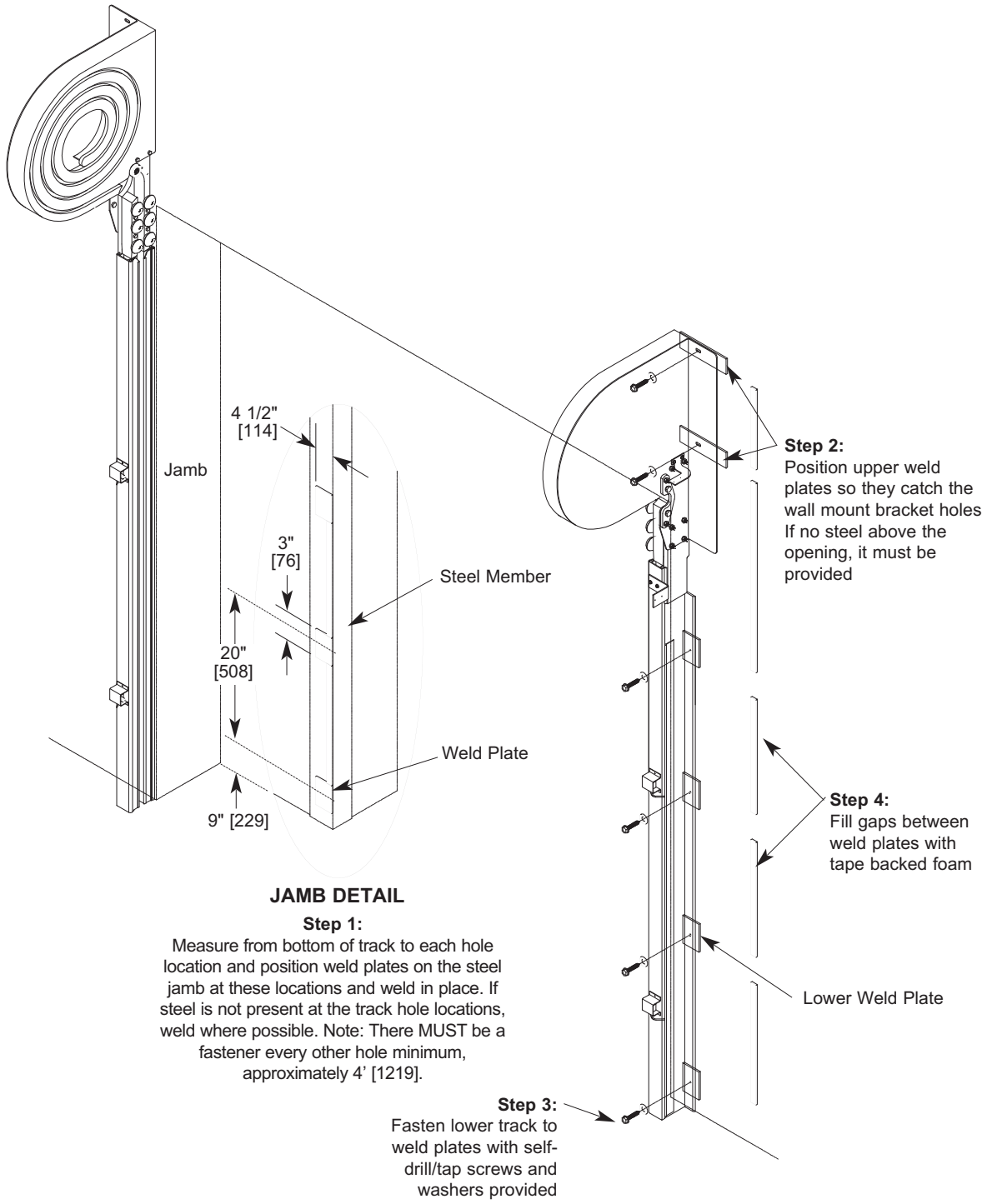
Step 9:
For opposite drive, remove top bracket, rotate 180° and re-fasten



Step 10:
Test operation of chain hoist.
Pull brake chain and lock in place.
Pull chain hoist chain, which will stop door operation.
Release brake chain and operate door.

CHAPTER 9 - OPTIONS WELD PLATE INSTALLATION

25.1

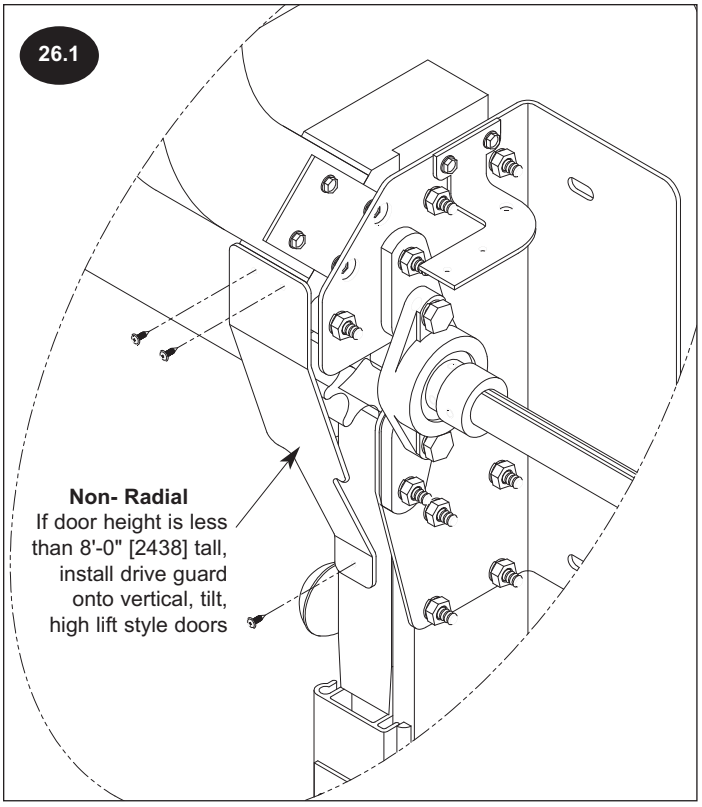


JAMB DETAIL

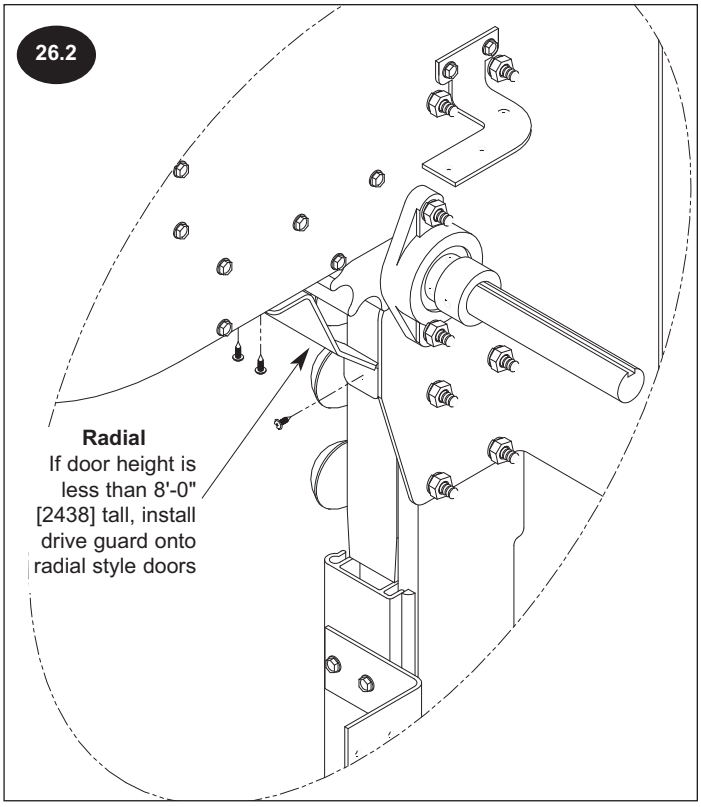
Step 1:
Measure from bottom of track to each hole location and position weld plates on the steel jamb at these locations and weld in place. If steel is not present at the track hole locations, weld where possible. Note: There MUST be a fastener every other hole minimum, approximately 4' [1219].

CHAPTER 9 - OPTIONS <8’- 0” [2438] D.O.H.

26.1

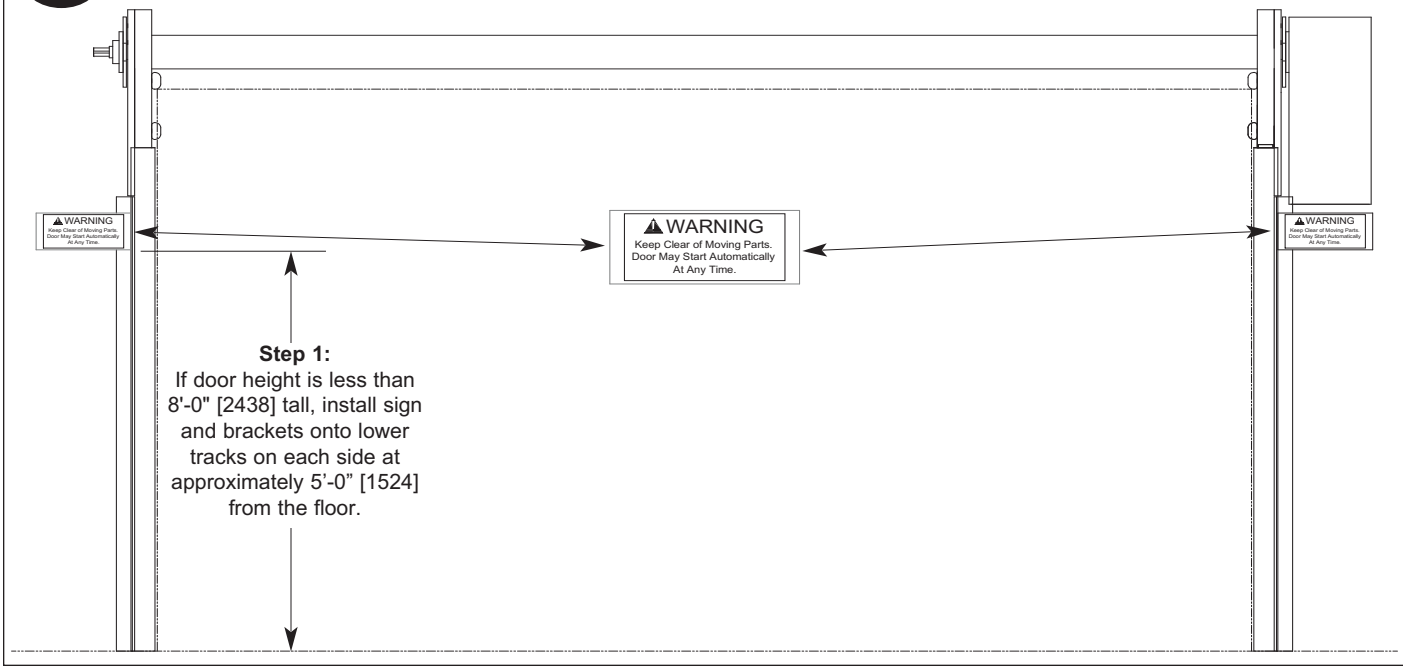


26.2



26.3

< 8’-0” [2438] D.O.H. KEEP CLEAR SIGN



CHAPTER 10 - MAINTENANCE ITEMS

27.1

Remove the brake cover by removing the three screws and brake handle holding it on.

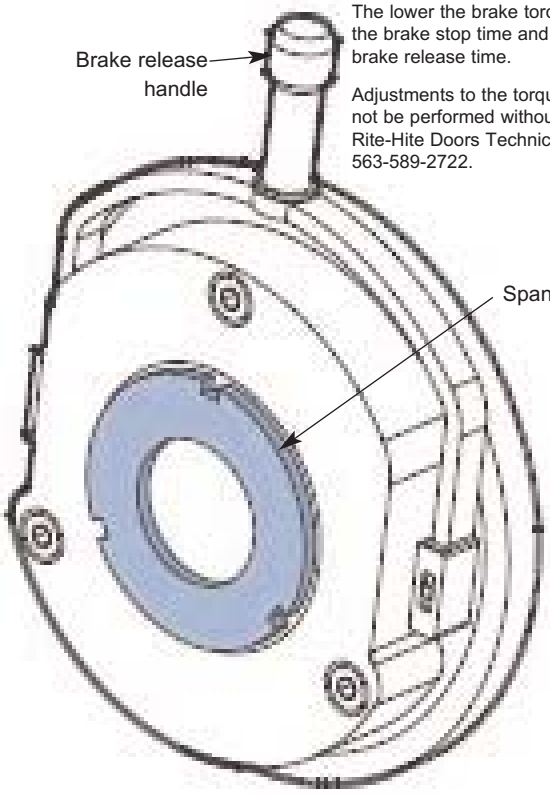
Torque Adjustment

This should only be required after prolonged brake use.

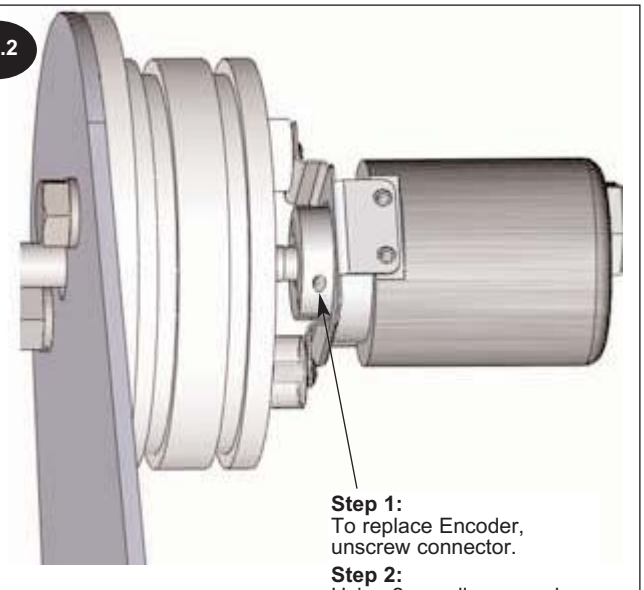
The spanner nut is tight against the brake casing, to make adjustments unscrew the spanner nut a few clicks at a time. (2.5 turns starting out)

The lower the brake torque, the longer the brake stop time and the faster the brake release time.

Adjustments to the torque setting should not be performed without first consulting Rite-Hite Doors Technical Support at 563-589-2722.



27.2



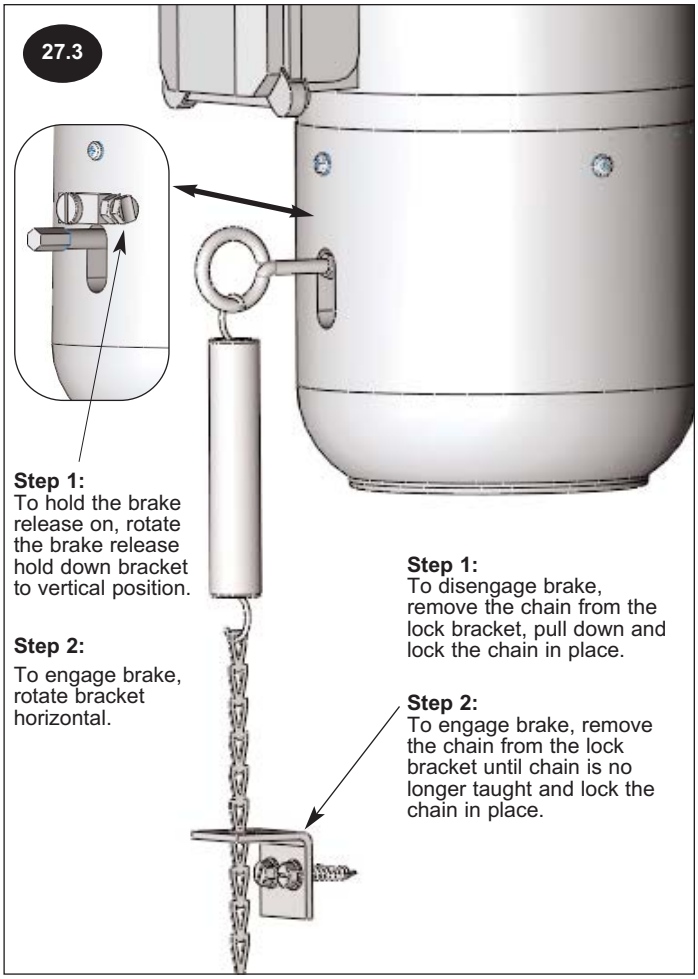
Step 1:
To replace Encoder, unscrew connector.

Step 2:
Using 2mm allen wrench, loosen lock collar and slide Encoder off of shaft.

Step 3:
Install new Encoder, tighten lock collar (14 in/lbs), and screw connector on.

Step 4:
Proceed to Encoder setup instructions

27.3



Step 1:
To hold the brake release on, rotate the brake release hold down bracket to vertical position.

Step 2:
To engage brake, rotate bracket horizontal.

Step 1:
To disengage brake, remove the chain from the lock bracket, pull down and lock the chain in place.

Step 2:
To engage brake, remove the chain from the lock bracket until chain is no longer taught and lock the chain in place.

27.4

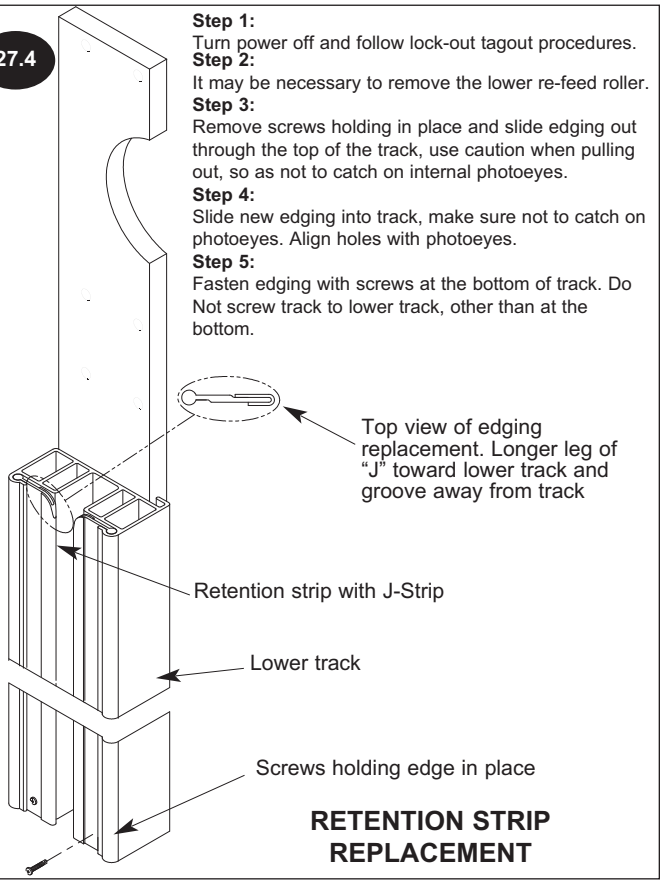
Step 1:
Turn power off and follow lock-out tagout procedures.

Step 2:
It may be necessary to remove the lower re-feed roller.

Step 3:
Remove screws holding in place and slide edging out through the top of the track, use caution when pulling out, so as not to catch on internal photoeyes.

Step 4:
Slide new edging into track, make sure not to catch on photoeyes. Align holes with photoeyes.

Step 5:
Fasten edging with screws at the bottom of track. Do Not screw track to lower track, other than at the bottom.



RETENTION STRIP REPLACEMENT

CHAPTER 10 - 230/460V INVERTER PROGRAMMING

FasTrax™ Inverter Program Instructions

When in Status mode, pressing and holding the **"M" MODE** key for 2 seconds will change the display from displaying a speed indication to displaying load indication and visa versa.

Pressing and releasing the **"M" MODE** key will change the display from status mode to parameter view mode. In parameter view mode, the left hand display flashes the parameter number and the right hand display shows the value of that parameter.

Pressing and releasing the **"M" MODE** key again will change the display from parameter view mode to parameter edit mode. In parameter edit mode, the right hand display flashes the value in the parameter being shown in the left hand display.

Pressing the **"M" MODE** key in parameter edit mode will return the drive to the parameter view mode. If the **"M" MODE** key is pressed again then the drive will return to status mode, but if either of the **"UP"** or **"DOWN"** keys are pressed to change the parameter being viewed before the **"M" MODE** key is pressed, pressing the **"M" MODE** key will change the display to the parameter edit mode again. This allows the user to very easily change between parameter view and edit modes whilst commissioning the drive.

"WARNING: Consult factory before changing any parameters not listed in this table."

Parameter Number	Name	Default Value	New Value	Units
00.03	Acceleration Rate 1	5.0	0.5	s/100 Hz
00.04	Deceleration Rate 1	10.0	1.0	S/100 Hz
00.10	Security Status	L1	L2	
00.18	Preset Speed 1	0.00	0.00	Hz
00.61	Torque Detection Level	0	50	%

FasTrax - Status Modes

Left Display	Status	Explanation
rd	Drive ready	The drive is enabled and ready for a start command. The output bridge is inactive.
ih	Drive inhibited	The drive is inhibited because there is no enable command, or a coast to stop is in progress or the drive is inhibited during a trip reset.
Er	Drive has tripped	The drive has tripped. The trip code will display in the right hand display.
dC	Injection braking	DC injection braking current is being applied to the motor.
Fr		Drive output frequency in Hz
SP		Motor speed in RPM
Ld		Load current as a % of motor rated load current
A		Drive output current per phase in A

CHAPTER 10 - 230/460V INVERTER PROGRAMMING

FasTrax - Inverter Error Codes

Trip Code	Condition	Possible Cause
tr UU	DC bus under voltage	Low AC supply voltage, check power source. Low DC voltage when supplied by an external DC power supply.
tr OV	DC bus over voltage	The DC bus (Pr. 84) has exceeded 800V-460V or 400V-230VAC, check the following: If DC bus climbs while door is not running, disconnect CE filter with power off. If fault is intermittent when door is not running try to set Automatic reset of faults. (PR. 73 = 10.34, PR. 74=10.36, PR. 63 = 3, PR 64 = on) If fault is while door is closing add breaking resistor, see Control Box Explosion for a list of parts. Deceleration rate set too fast for the inertia of the machine. Mechanical load driving the motor.
tr It.br	I^2C on braking resistor	Check door closing speed. If fault is while door is closing, add breaking resistor. See tr OV for more troubleshooting.
tr It. AC	I^2C on drive output	Check that radial spacing and that they are square, or lower track spacing. Motor wiring, check for loose connections or shorts. Make sure door cannot move if brake is engaged.
tr OI.AC	Drive output instantaneous over current	Door is mechanical binding or jammed. Check radial spacing and that they are square, or lower track spacing. Motor wiring, check for loose connections or shorts. Make sure door cannot move if brake is engaged. Disconnect CE filter with power off. Insufficient ramp times. Phase to phase or phase to ground short circuit on the drives output. Drive requires autotuning to the motor. Motor or motor connections changed, re-auto tune drive to motor MUST wait 10 seconds to reset after trip occurs
OI.br	Braking resistor instantaneous over current	Excessive braking current in braking resistor Braking resistor value too small. MUST wait 10 seconds to reset after trip occurs
O.SPd	Over speed	Excessive motor speed (typically caused by mechanical load driving the motor)
tunE	Auto tune stopped before complete	Run command removed before autotune complete
It.br	I^2-t on braking resistor	Excessive braking resistor energy
It.AC	I^2-t on drive output current	Excessive mechanical load. Drive requires re-auto tuning to motor. High impedance phase to phase or phase to ground short circuit at drive output.
O.ht1	IGBT over heat based on drives thermal model	Overheat software thermal model
O.ht2	Over heat based on drives heatsink	Heatsink temperature exceeds allowable maximum
th	Motor thermistor trip	Excessive motor temperature
O.Ld1	User +24V or digital output overload	Excessive load or short circuit on +24V output The Enable/Reset terminal will not reset an O.Ld1 trip. Use the Stop/Reset key.
OUL.d	I x t overload	Reduce motor current
hot	Heatsink/IGBT temp is high	Reduce ambient temperature or reduce motor current
br.rS	Braking resistor overload	See Advanced user guide
EEF	Internal drive EEPROM failure	Possible loss of parameter values
PH	Input phase imbalance or input phase loss	One of the input phases has become disconnected from the drive
rS	Failure to measure motors stator resistance	Motor too small for drive Motor cable disconnected during measurement
O.cL	Overload on current loop input	Input current exceeds 25mA
tr HF ##	Hardware Fault	The drive has detected a hardware problem, verify wiring is correct. This cannot be fixed in the field, replace the drive.
HF 05 trip		No signal from DSP at start up
HF 06 trip		Unexpected Interrupt
HF 07 trip		Watchdog failure
HF 08 trip		Interrupt crash (code overrun)
HF 11 trip		Access to the EEPROM failed
HF 20 trip		Power stage - code error
HF 21 trip		Power stage - unrecognized frame size
HF 22 trip		OI failure at power up
HF 25 trip		DSP Communications failure
HF 26 trip		Soft start relay failed to close, or soft start monitor failed or braking IGBT short circuit at power up
HF 27 trip		Power stage thermistor fault
HF 28 trip		DSp software overrun
HF xx trip		HF 1-4, 9-10,12-19,23,24,29,30 Are not used

CHAPTER 10 - 575V INVERTER PROGRAMMING

FasTrax™ Allen Bradley - 575V - Inverter Program Instructions

Press **"ESC"** once to display the Display Group parameter.

Press **"ESC"** again to enter the group menu, the group letter will flash. Press **"UP"** or **"DOWN"** arrow to scroll through the group menu.

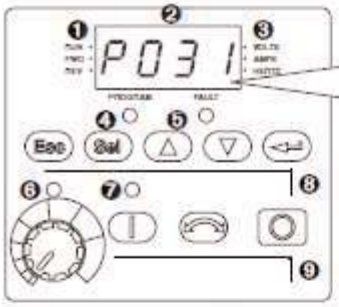
Press **"Enter"** or **"Sel"** to enter a group. Press **"UP"** or **"DOWN"** arrow to scroll through the group menu.

Press **"Enter"** or **"Sel"** to view the value of the parameter. Press **"ESC"** to exit without making any changes. Press **"Enter"** or **"Sel"** to edit parameter, when # is flashing (Program LED will illuminate if parameter can be edited), press **"UP"** or **"DOWN"** arrow to change value.

Press **"Enter"** when completed to save changes. Press **"ESC"** to exit and return to program list.

"WARNING: Consult factory before changing any parameters not listed in this table."

Parameter Number	Name	Default Value	New Value
039	Accel Time	.5	a/r
040	Decel Time	.3	a/r
056	Torque Detection Level	70.0	a/r
080	DC Brake Injection Time	.5	a/r
081	DC Brake Injection Level	1.50	a/r
101	Program Lock	1	0



Menu	Description
d	Display Group (View Only) Consists of commonly viewed drive operating conditions.
P	Basic Program Group Consists of most commonly used programmable functions.
A	Advanced Program Group Consists of remaining programmable functions.
F	Fault Designator Consists of list of codes for specific fault conditions. Displayed only when fault is present.

No.	LED	LED State	Description
❶	Run/Direction Status	Steady Red	Indicates drive is running and commanded motor direction.
		Flashing Red	Drive has been commanded to change direction. Indicates actual motor direction while decelerating to zero.
❷	Alphanumeric Display	Steady Red	Indicates parameter number, parameter value, or fault code.
		Flashing Red	Single digit flashing indicates that digit can be edited. All digits flashing indicates a fault condition.
❸	Displayed Units	Steady Red	Indicates the units of the parameter value being displayed.
❹	Program Status	Steady Red	Indicates parameter value can be changed.
❺	Fault Status	Flashing Red	Indicates drive is faulted.
❻	Pot Status	Steady Green	Indicates potentiometer on Integral Keypad is active.(1)
❼	Start Key Status	Steady Green	Indicates Start key on Integral Keypad is active. The Reverse key is also active unless disabled by A095 [Reverse Disable].

No.	Key	Name	Description
❽	Esc	Escape	Back one step in programming menu. Cancel a change to a parameter value and exit Program Mode.
	Sel	Select	Advance one step in programming menu. Select a digit when viewing parameter value.
	▲ ▼	Up Arrow Down Arrow	Scroll through groups and parameters. Increase/decrease the value of a flashing digit. Used to adjust internal frequency of IP66, NEMA/UL Type 4X rated drives only when a Display Group parameter is shown and P038 [Speed Reference] is set to internal frequency, A069 [Internal Freq].
	↵	Enter	Advance one step in programming menu. Save a change to a parameter value.
❾		Potentiometer(1)	Used to control speed of drive. Default is active. Controlled by parameter P038 [Speed Reference].
		Start	Used to start the drive. Default is active. Controlled by parameter P036 [Start Source].
		Reverse	Used to reverse direction of the drive. Default is active. Controlled by parameters P036 [Start Source] and A095 [Reverse Disable].
		Stop	Used to stop the drive or clear a fault. This key is always active. Controlled by parameter P037 [Stop Mode].

CHAPTER 10 - MAINTENANCE PROCEDURES

RITE-HITE DOORS, INC. PLANNED MAINTENANCE
Model FASTRAX®

CUSTOMER:	JOB#	SERIAL#	DATE:

Planned Maintenance Task	Recommended P.M. Intervals (Time Shown In Months)							Inspect and Perform the Following
	1	6	12	18	24	30	36	
Activation		x	x	x	x	x	x	Operate all devices to verify proper operation.
Curtain Fans		x	x		x		x	Verify that Curtain Fans are powered and working. Make sure that the fans are positioned properly and are removing condensation from the curtain.
Auto Re-Feed		x	x		x		x	Verify auto re-feed is operational.
Brake	x		x		x		x	Verify that brake stops the door at open and closed positions as well as when stopped in the middle of travel. To move the curtain manually, turn the brake release handle to the disengaged position. The curtain should be able to be moved manually. If brake is making noise, adjust.
Controls / Wiring			x		x		x	Clean, check all connections with disconnect off. Make sure all wires are free from moving parts.
Curtain		x		x	x		x	Inspect for wear or damage, patch immediately to prevent condensation or frost buildup. Clean with warm soapy water. Check drive spheres, if missing or damaged, replaced. Check top roller.
Door Assembly			x		x		x	Perform visual inspection for damage. Tighten all hardware. Replace any worn labels. Use air hose to remove dust and debris.
Door Operation			x	x	x	x	x	Operate door and make sure all operations are functioning properly.
Drive Tube			x		x		x	Verify drive tube gear is centered over track groove. Make sure bearing set screws and mounting bolts are tight.
Gearbox			x		x		x	Check gearbox fluid level, fill with 90 weight if low. Check lock collar set screws.
Encoder / Chain / Sprockets			x		x		x	Verify Encoder chain and sprocket set screws are tight. Check open and close positions, adjust as required.
Lintel Seal			x		x		x	Verify lintel seal is sealing wall properly.
Motor			x		x		x	Check junction box and plug connections.
Non-Powered Opening Option			x		x		x	With power off, verify chain hoist opens door. Lubricate chain, sprockets and check alignment.
Photoeyes		x	x	x	x	x	x	Verify both photoeyes reverse the curtain. LED's on receiver should go on/off. Clean emitter and receiver lens.
Thermal Air Seal (FR door only)		x	x		x		x	Verify air bag is inflated, free of tears and providing an adequate seal against curtain and the wall. If torn, patch immediately to prevent condensation buildup. Verify warm air existing exhaust holes.
Tracks / Radial (upper and lower)	x	x	x	x	x	x	x	Perform visual inspection. Lubricate radials and tracks with food grade synthetic grease (Super Lube). It may be required to remove the existing grease prior to adding new. Verify proper width and tighten all hardware. Check foam seal if present.
Track Retention Strips			x		x		x	Inspect track retention strips, replace if cracked.
Virtual Vision			x	x	x	x	x	Verify virtual vision is functioning properly. Red LED's should be lit if movement on opposite side.
Vision (not on FR doors)		x	x		x	x		Inspect vision for tears or separation. Clean with warm soapy water.
Radial and Track Lubrication	Lubrication of radials and tracks may be required more than every 6 months, based on usage and environmental conditions.							Lubrication of the radials and tracks is the sole responsibility of the end user. If door is mounted in a dirty environment, it may be required to remove the existing grease prior to adding new.

MAINTENANCE INFO

High-Temperature Synthetic Grease with PTFE (Polytetrafluoroethylene)

The synthetic oil base in this food-grade silica-thickened grease, increases the time before the next application. It also contains a PTFE additive that reduces friction and waterproofs metal surfaces, preventing rust and corrosion. NSF rated H1 for applications with incidental food contact. Temperature range is -45° to +450° F [-45° to +232° C]. Color is white.

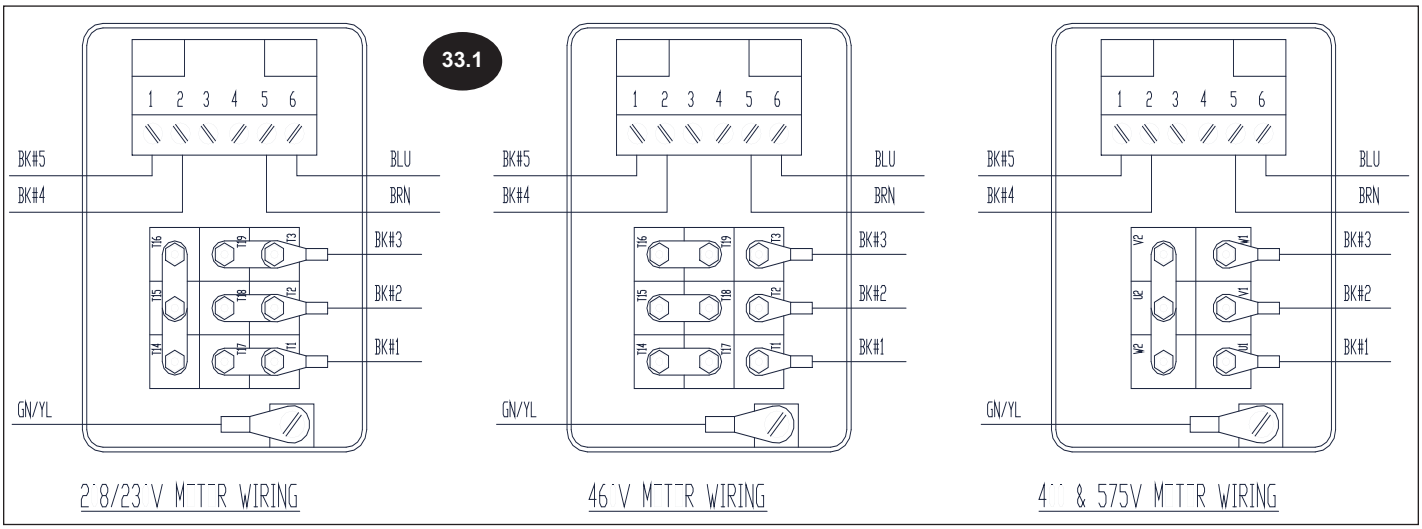
McMaster Carr # 1378K33 - 14.1oz Cartridge

CHAPTER 10 - TROUBLESHOOTING

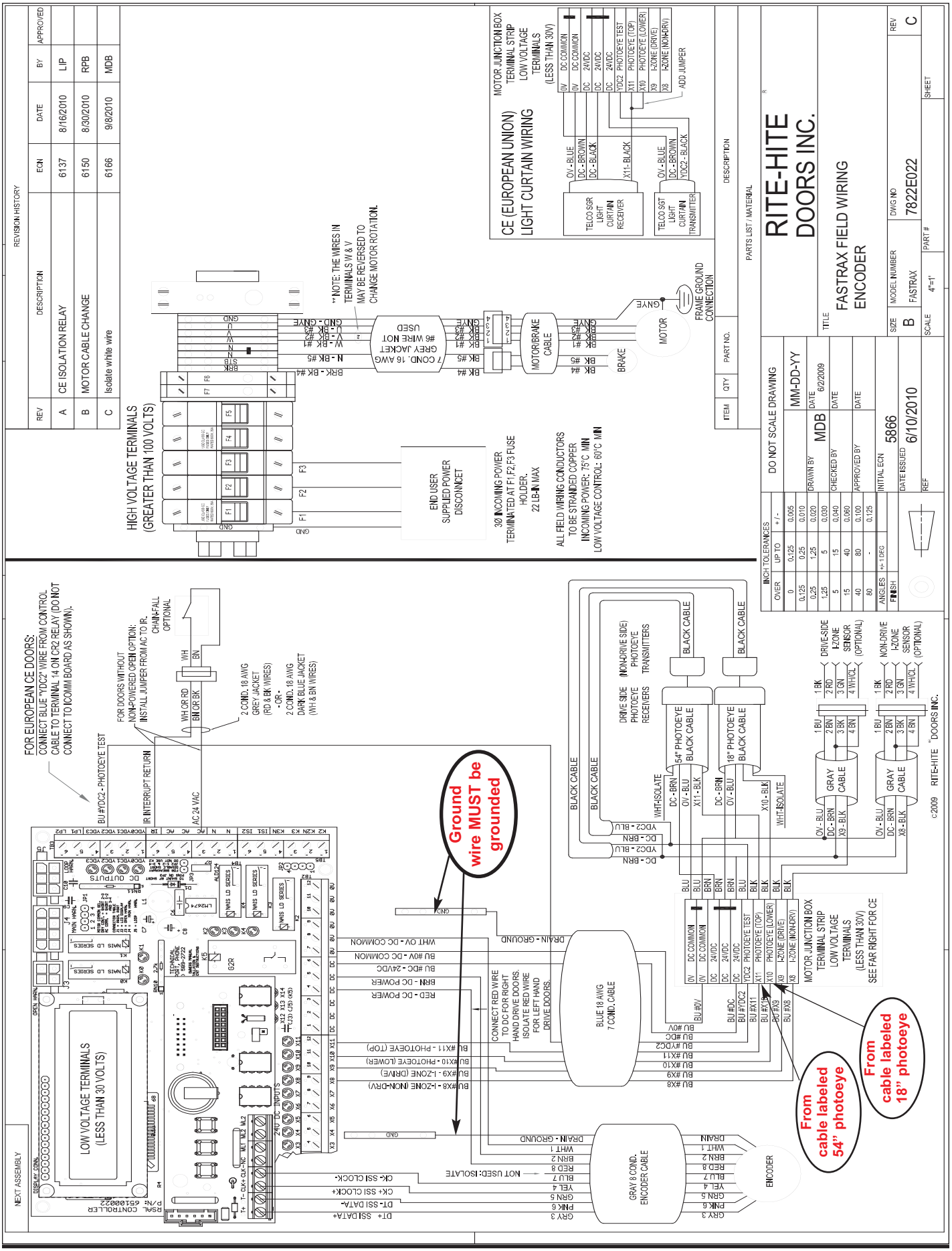
DEFINITION	FUNCTION
Activation	It is preferred not to wire activation devices until after the door is functioning properly. (Refer to Activation Manual)
Brake	The brake is powered by 110VAC, if brake does not stop door when open or closing or if there is excessive noise, see brake adjustments on ***Page 27.*** Brake will have approx. 267 ohms on normal readings, disconnect rectifier.
Breakaway	If the curtain is separated from the lower tracks, simply press the green open/reset button and the door will auto-refeed back into the tracks without tools or intervention. If a major separation occurs the drive tube may need to be turned manually to prevent damage to the curtain.
Control Box Cable	**DO NOT DRILL HOLES ON TOP OF THE CONTROL BOX TO RUN CONDUIT, AS DUST PARTICLES AND MOISTURE MAY CAUSE DAMAGE TO ELECTRICAL COMPONENTS.** **THE IDEA SAFEST LOCATION IS AT THE BOTTOM. Failure to do so, voids warranty.** If supplied conduit cable is too short, DO NOT splice wires, as the cable is shielded to prevent electrical noise. Make sure the motor is grounded and the braided (drain) wire is properly grounded to prevent electrical noise. Contact local Representative for replacement.
Curtain	The curtain is driven by the drive spheres and the drive tube. a) If drive spheres are missing from curtain, repair or replace. b) If curtain struggles to raise or lower or is baggy, **check for proper track spacing**, O.D.W. + 1/2" [13]. c) Check to make sure tracks are lubricated with food grade synthetic grease (Super Lube). d) If curtain is making contact with the wall when closing, verify lower tracks are not too close together and that lintel roller is present and properly installed. e) The curtain can be either 27oz, 60 mil, 80 mil, or 27oz insulated.
Disconnect Switch	The disconnect switch is in line with fuse holder terminals F1, F2, F3, and removes power from the entire control box, except for terminals F1, F2, F3.
D.O.H. or D.O.W.	D.O.H. = Door Opening Height or D.O.W. = Door Opening Width
Drain Wire	**Verify that drain wire is terminated properly, failure to properly terminate the drain wire, may result in sporadic reversals, photoeye and other issues due to either static electricity or electrical noise and void warranty.**
Drive Side Switch	The drive can be switched from right hand to left hand by performing the following: a) Remove and switch conduit mounting bracket to opposite side. b) Remove and switch motor mount bumper bracket. c) Remove encoder bracket and move to outside holes. d) Remove and switch driven sprocket. e) Remove and switch drive and non-drive photoeye cables. f) New drive shroud and bracket are required. g). Flip Drive Tube 180°.
Drive Tube	If drive spheres make excessive clicking noise, make sure tube drive gears are centered over track grooves.
Encoder	See Encoder Section. **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. c) Red Encoder wire is NOT used on Left Hand drive doors. d) See ***Page 19*** for Encoder errors.
Fuses	F1, F2, F3: Incoming power fuses, must have line voltage across all 3 legs. (Transformer, Inverter, motor) F4, F5: Primary side transformer fuses, must have line voltage across both legs. F6, F7: Secondary side transformer fuses, F6 is 24V and F7 is 120V (power supply & brake).
i-COMM Controller™	The i-COMM controller is a circuit board that controls the actions of the door. There is 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 18.*** Settings can be changed for re-close or pre-announce timers, interlocks, special activation commands, among many others, refer to instructional manual included. a) Verify i-Comm is receiving 24VDC from power supply. b) If i-Comm display is blank or hard to see, adjust contrast. c) Input X2 - Torque Reverse needs to be on for the door to operate. d) Input X10 - Lower Photoeye will be on unless photoeye is blocked or not aligned. e) Input X11 - Upper Photoeye will be on unless photoeye is blocked or not aligned. f) Input X14 - Fault needs to be on for the door to operate. g) The door can be set to close from 2 to 255 seconds, follow i-COMM adjustment instructions.
Inverter	See ***Pages 28 -30*** for proper parameter settings.
Motor	If door will not run will given an activation, check the following: a) Check voltage to and from inverter. b) Check voltage and for loose wires at terminals, U, V, and W. c) 208V-240V motor will have 2.8 ohms on normal readings. d) 400V-480V motor will have 9 -10 ohms on normal readings. e) 575V motor will have 13 ohms on normal readings.
Motor Phasing	If "Open/Reset" button is pressed and the door closes, phasing is reversed, switch wires in terminals, V and W. Make sure the motor is properly grounded to prevent electrical noise.
Non-Powered Opening	If issues arise with the non-powered opening chain hoist, check the following: a) If power outage, release brake and pull chain on hoist to open door. b) If chain hoist chain is pulled while door is powered, the door will go into fault mode (green light flashing). c) If chain hoist chain is pulled, reset door by pressing the green flashing button.
O.D.H. or O.D.W.	O.D.H. = Ordered Door Height or O.D.W. = Ordered Door Width
Open/Reset Push Button	The open/reset push button function is when the button is pressed, a command to open the door is given. To jog door when i-Comm states "Photoeye Failure", press and hold the "Open/Reset" button.
Pressure	If the curtain is blowing out because of high wind or negative pressure, check the following: a) Tracks MUST be mounted at O.D.W. + 1/2" [13]. If mounted wider, excessive curtain wear may occur, if too narrow, curtain buckling or billowing will be greater. b) Check to make sure the curtain has all the drive spheres in place. c) Exterior doors are equipped with a garnet bag in the bottom loop to protect from the elements.
Photoeyes	The photoeyes are wired to the 24VDC circuit and are wired as normally closed when there is power to the unit and the emitter photoeye is aligned with the receiver photoeye. There are 3 lights on the receiver and one on the emitter. Green is for power, yellow and orange are for proper alignment. The photoeyes will reverse or hold the door open when the photoeye beam is blocked. When the beam is not broken, the door will auto-reclose. If photoeyes require adjustment, check that lower tracks are square to the wall. a) Power to Brown (DC) and Blue (OV) wires. b) Internal photoeye relay wires Black / Blue should be closed when photoeye is aligned and open when not aligned. c) When open, i-COMM verifies photoeye inputs are off. If on, door will fault. If off, test is ok, emitter's turn on. d) Orange and yellow light on the Receiver should be on when aligned. e) Green light on the Emitter indicates the unit is powered up. f) Input X11 will go off when the upper (54") [1372] photoeye is tripped. g) Input X10 will go off when the lower (18") [457] photoeye is tripped.

CHAPTER 10 - TROUBLESHOOTING

DEFINITION	FUNCTION
Power Supply	Power Supply is powered by 120VAC from the F1 fuse and delivers 24VDC to the i-comm.
Tracks	a) Verify tracks are properly spaced b) Lubricate as required per Maintenance Schedule, ***Page 31.***
Virtual Vision	Virtual Vision is optional on the FasTrax door. When motion is sensed via Falcon motion sensors, the Virtual Vision red LED's will illuminate to notify driver of movement on the opposite side of the curtain. a) It is normal for the YDC3 output to flash on i-COMM during door operation.
Voltage Change	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 with proper voltage.
Door does not close	a) Verify inputs X2 and X4 are on. b) Verify inputs X5, X6 or X7 are not on, if on, remove wire from terminal to determine what is keeping light on. c) Verify outputs K1, K2, K4, K5 and YDC2 are on or coming on to signal inverter to close door. d) Check status on i-Comm display to see why door is staying open (*"Photoeye Blocked" or Photoeye Failure", etc.)*, should read *"Door Closing in "x" seconds".* e) Verify inverter display is changing frequency. f) Verify chain hoist chain is not pulled and switch is not tripped. g) Verify brake handle is not released. h) Verify X10 and X11 are on and that the photoeyes are lined up and not blocked. i) Verify proper incoming power is reaching inverter at L1, L2 and L3. j) Verify as the curtain gets near the photoeyes that they are being shut off. k) If run timer occurs, check for binding or obstructions. Tracks may need to be lubricated to reduce friction. L) If curtain reverses at photoeyes, verify that the photoeye wiring is not reversed.
Door does not open	a) Verify inputs X2 and X4 are on. b) Verify input X3, X5, or X6 are coming on when activation device is being used. c) Verify outputs K3, K4, K5 and YDC2 are on or coming on to signal inverter to open door. d) Check status on i-Comm display to see why door is staying closed, should read *"Door Opening".* e) Verify inverter display is changing frequency. f) Verify brake handle is not released. g) Verify proper incoming power is reaching inverter at L1, L2 and L3.
Door slams open/close	a) Verify the open and close positions are properly set. b) Verify encoder lock collar and sprocket set screws are tight and the chain moves when the drive tube is turning. c) Verify the encoder shaft turns when the drive tube is turned. d) Verify the inverter is changing speeds on the display. e) Verify the phasing is correct. The door should open when the green open button is pressed. f) Verify the brake is engaged and not released. g) Verify the key been installed on the gearbox shaft. h) Verify the proper ratio gearbox is being used.



CHAPTER 11- MANDATORY FIELD WIRING DIAGRAM

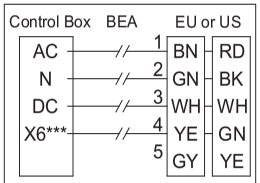


DWG NO	SHEET	REV
7822E011		A

NEXT ASSEMBLY

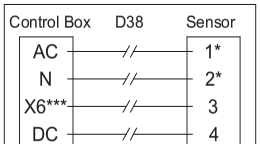
REVISION HISTORY					
REV	DESCRIPTION	ECN	DATE	BY	APPROVED
A	UPDATE FALCON	5705	7/25/2008	LIP	

BEA - Falcon, IS-87, EagleHM



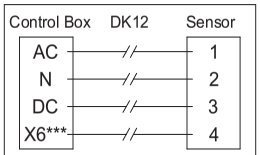
BEA Motion Sensors

MS Sedco - D38



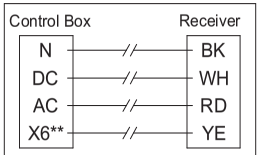
D38 Motion Sensor
*If switched, green lite will be on, and F2 fuse blown.

BEA - DK-12

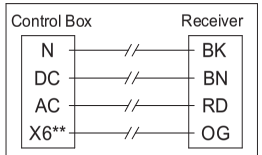


Presence Sensor

RADIO CONTROLS

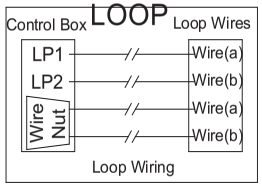


300MHz Radio Control



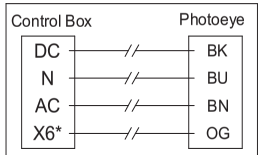
40MHz Radio Control
(1, 2 or 4 Button)

INDUCTION LOOP

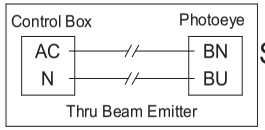


Loop Wiring

PHOTOEYES

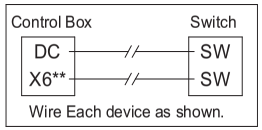


Retroreflective or Thru Beam Receiver



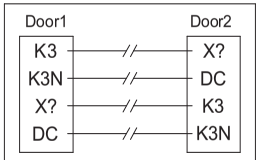
Thru Beam Emitter

PUSHBUTTONS & PULL-CORDS



Wire Each device as shown.

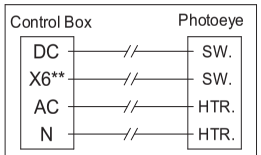
INTERLOCK



2 Door Standard Interlock

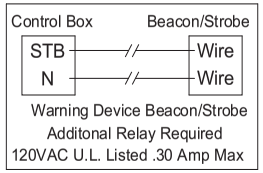
Note: Consult i-COMM manual to see which inputs can be assinged interlock in function. Connect K3 to whichever input is selected to become interlock in. No other devices should be connected to this input. Terminal Must be assigned to Interlock through i-COMM menu on both doors. (i.e. If X3 is to be assigned a function of Interlock Input, the menu ("Input Func X3") should be set to a value of "0") Output YK3 (K3 relay) should remain at the default setting of "0" on both doors.

HEATED PULL CORDS

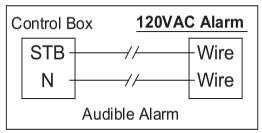


Heated Pull-Cord Station

STROBES & ALARMS



Warning Device Beacon/Strobe
Additonal Relay Required
120VAC U.L. Listed .30 Amp Max



Audible Alarm

NOTES: THIS DRAWING ASSUMES INPUT FUNCTIONS ARE SET TO FACTORY DEFUALTS. CONSULT i-COMM MANUAL FOR DETAILS
WARNING: NEVER CONNECT MOTION SENSORS TO A TOGGLE INPUT

Terminals "X6", "X7" are automatic reclose.
Terminals "DC" are DC common for inputs.
Terminals "AC" and "N" are 24VAC terminals.

*Terminal X7 is a default
**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 for additional instructions.

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: RPB — DATE: 7/24/2008
CHECKED BY — DATE
APPROVED BY — DATE
INITIAL ECN: 5288
DATE ISSUED: 3/9/2007
REF

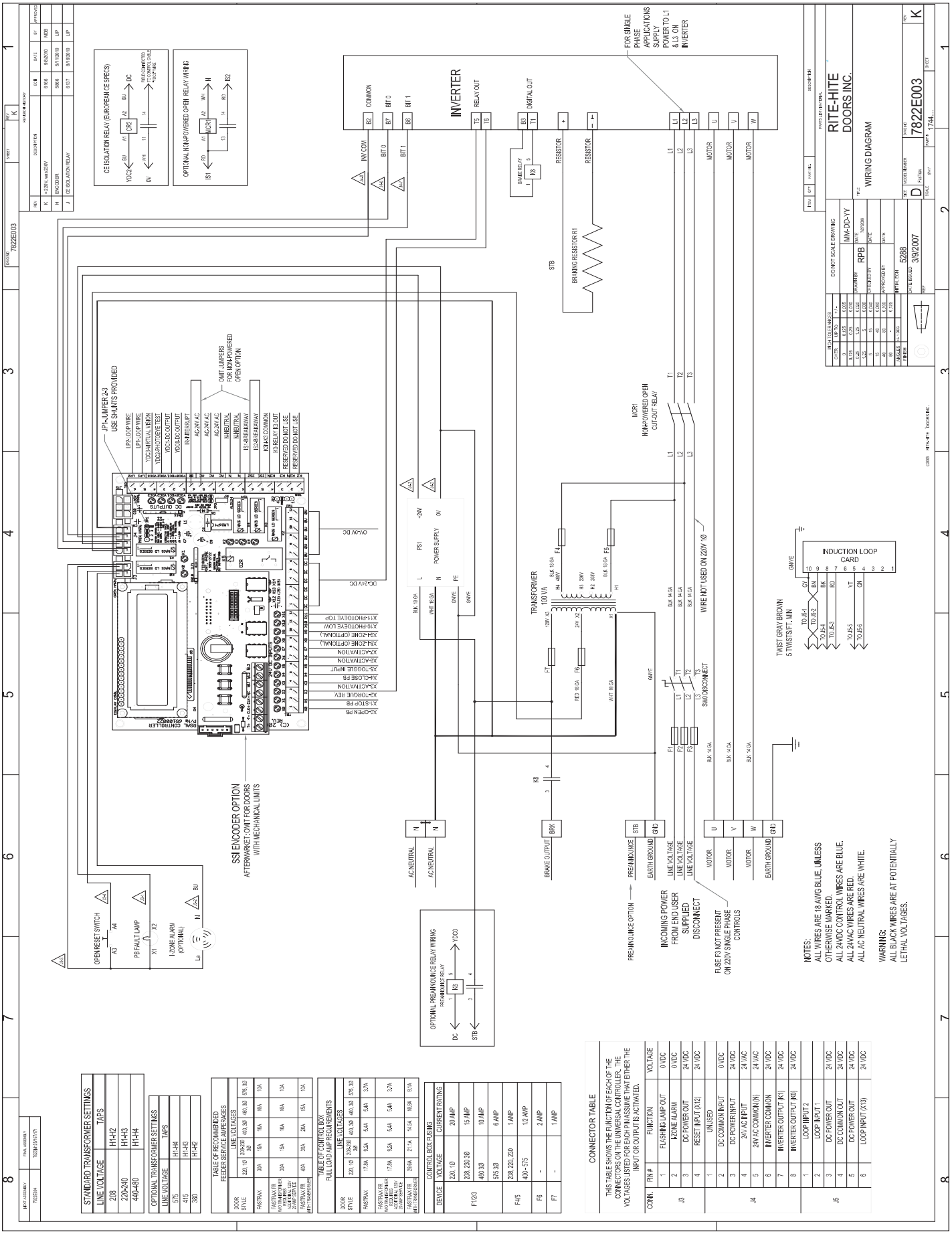
RITE-HITE® DOORS INC.

TITLE
FasTrax SERIES
ACTIVATION WIRING
i-COMM

SIZE	MODEL NUMBER	DWG NO	REV
B	FasTrax/FasTrax FR	7822E011	A

SCALE 8"=1' — PART # — SHEET

CHAPTER 11- 230/460V ELECTRICAL WIRING DIAGRAM



STANDARD TRANSFORMER SETTINGS

LINE VOLTAGE	TAPS
208	H1-H2
220-240	H1-H3
440-480	H1-H4

OPTIONAL TRANSFORMER SETTINGS

LINE VOLTAGE	TAPS
575	H1-H4
415	H1-H3
380	H1-H2

TABLE OF RECOMMENDED FEEDER SERVICE AMPERAGES

DOOR STYLE	LINE VOLTAGES 220 -10	230-240 -5/+10	400, 460 -10/+5	380, 415, 575 -10/+5
FASTRAX	30A	15A	10A	10A
FASTRAX ER WITH TRANSFORMER (SEE NOTE 1)	30A	15A	10A	10A
FASTRAX ER WITHOUT TRANSFORMER (SEE NOTE 2)	40A	30A	20A	15A

TABLE OF CONTROL BOX FULL LOAD AMP REQUIREMENTS

DOOR STYLE	LINE VOLTAGES 220 -10	230-240 -5/+10	400, 460 -10/+5	380, 415, 575 -10/+5
FASTRAX	17.8A	9.2A	5.4A	5.4A
FASTRAX ER WITH TRANSFORMER (SEE NOTE 1)	17.8A	9.2A	5.4A	5.4A
FASTRAX ER WITHOUT TRANSFORMER (SEE NOTE 2)	28.6A	21.1A	11.3A	10.3A

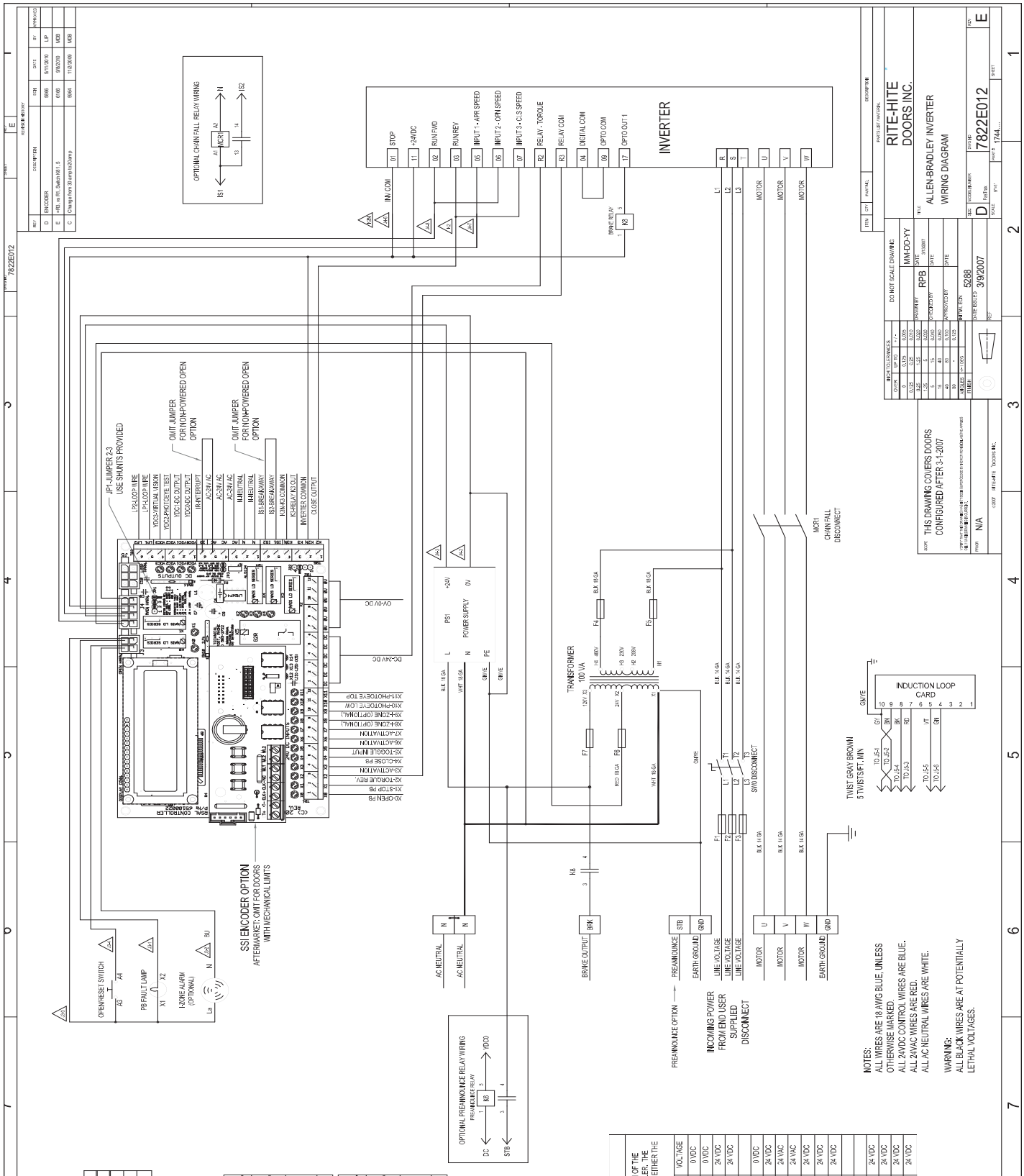
CONTROL BOX FUSING		
DEVICE	VOLTAGE	CURRENT RATING
F1/2/3	220, 10	20 AMP
	208, 230/30	15 AMP
	460/30	10 AMP
	575/30	6 AMP
F4/5	208, 220, 230	1 AMP
	400 - 575	1/2 AMP
F6	-	2 AMP
F7	-	1 AMP

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
J3	1	FLASHING LAMP OUT	0 VDC
	2	1-ZONE ALARM	0 VDC
	3	DC POWER OUT	24 VDC
	4	RESET INPUT (X12)	24 VDC
J4	1	UNUSED	
	2	DC COMMON INPUT	0 VDC
	3	DC POWER INPUT	24 VDC
	4	24V AC INPUT	24 VAC
	5	24V AC COMMON (N)	24 VAC
	6	INVERTER COMMON	24 VDC
	7	INVERTER OUTPUT (K1)	24 VDC
	8	INVERTER OUTPUT (K0)	24 VDC
J5	1	LOOP INPUT 2	
	2	LOOP INPUT 1	
	3	DC POWER OUT	24 VDC
	4	DC COMMON OUT	24 VDC
	5	DC POWER OUT	24 VDC
	6	LOOP INPUT (X13)	24 VDC

CHAPTER 11- 575V ELECTRICAL WIRING DIAGRAM



STANDARD TRANSFORMER SETTINGS

LINE VOLTAGE	TAPS
208	H1-H2
220-240	H1-H3
440-480	H1-H4

OPTIONAL TRANSFORMER SETTINGS

LINE VOLTAGE	TAPS
575	H1-H4
415	H1-H3
380	H1-H2

TABLE OF RECOMMENDED FEEDER SERVICE AMPERAGES

DOOR STYLE	LINE VOLTAGES	208/230/460/575	208/230/460/575	208/230/460/575
FASTRAX	208, 230	30A	15A	10A
	460, 575	30A	10A	10A
FASTRAX FR WITH ENCODER OR WITH TRIP EDGE	208, 230	30A	15A	10A
	460, 575	30A	10A	10A
FASTRAX FR WITH ENCODER AND WITH TRIP EDGE	208, 230	40A	30A	20A
	460, 575	40A	30A	15A

TABLE OF CONTROL BOX FULL LOAD AMP REQUIREMENTS

DOOR STYLE	LINE VOLTAGES	208/230/460/575	208/230/460/575	208/230/460/575
FASTRAX	208, 230	9.2A	3.4A	3.4A
	460, 575	9.2A	3.4A	1.7A
FASTRAX FR WITH ENCODER OR WITH TRIP EDGE	208, 230	17.0A	9.2A	5.4A
	460, 575	17.0A	9.2A	5.4A
FASTRAX FR WITH ENCODER AND WITH TRIP EDGE	208, 230	28.0A	21.1A	14.5A
	460, 575	28.0A	21.1A	10.0A

CONTROL BOX FUSING

DEVICE	VOLTAGE	CURRENT RATING
F1/2/3	220, 10	20 AMP
	208, 230 380	15 AMP
	460, 380	10 AMP
	575, 300	6 AMP
F4/5	208, 220, 230	1 AMP
	400 - 575	1/2 AMP
F6	-	2 AMP
F7	-	1 AMP

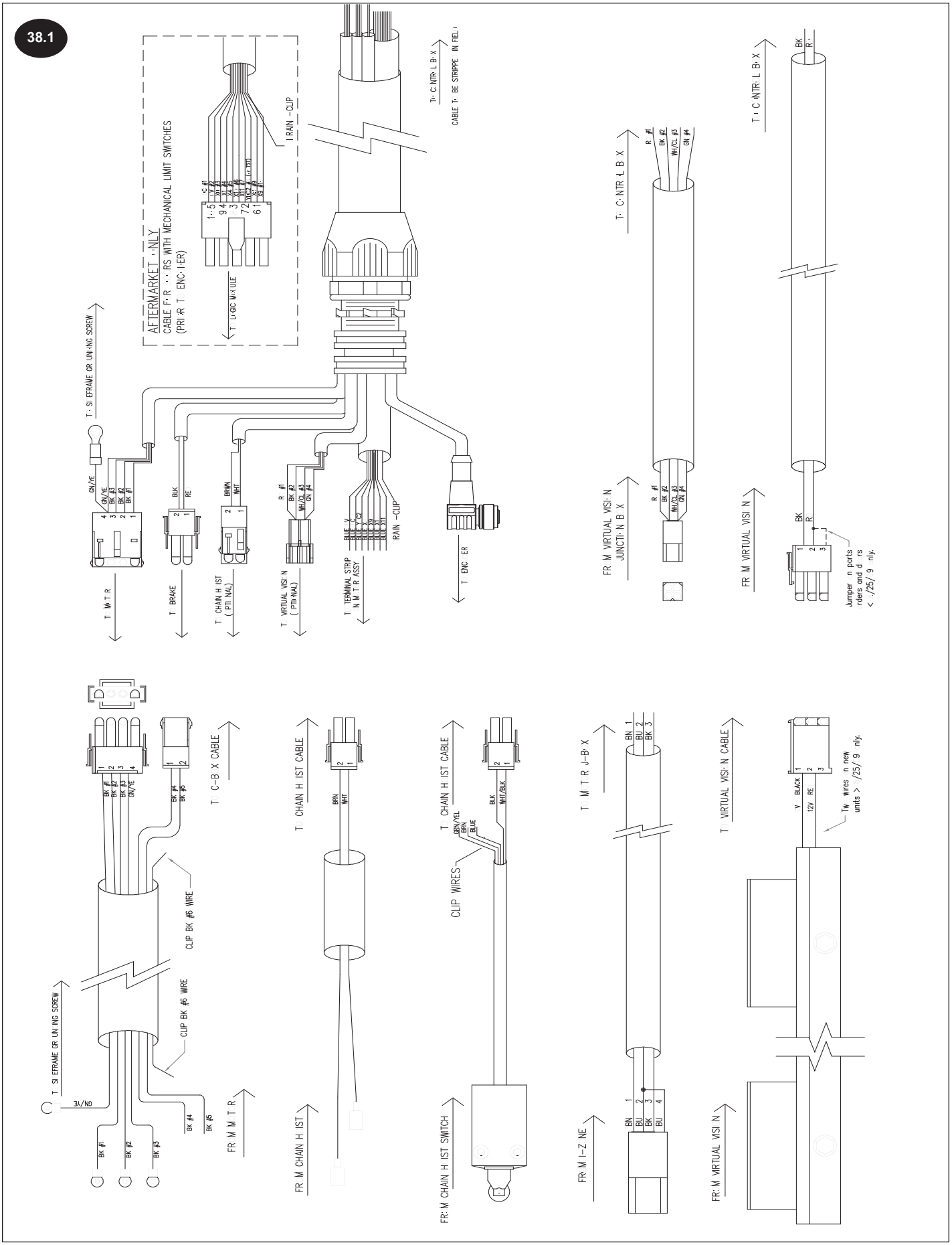
CONNECTOR TABLE

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.

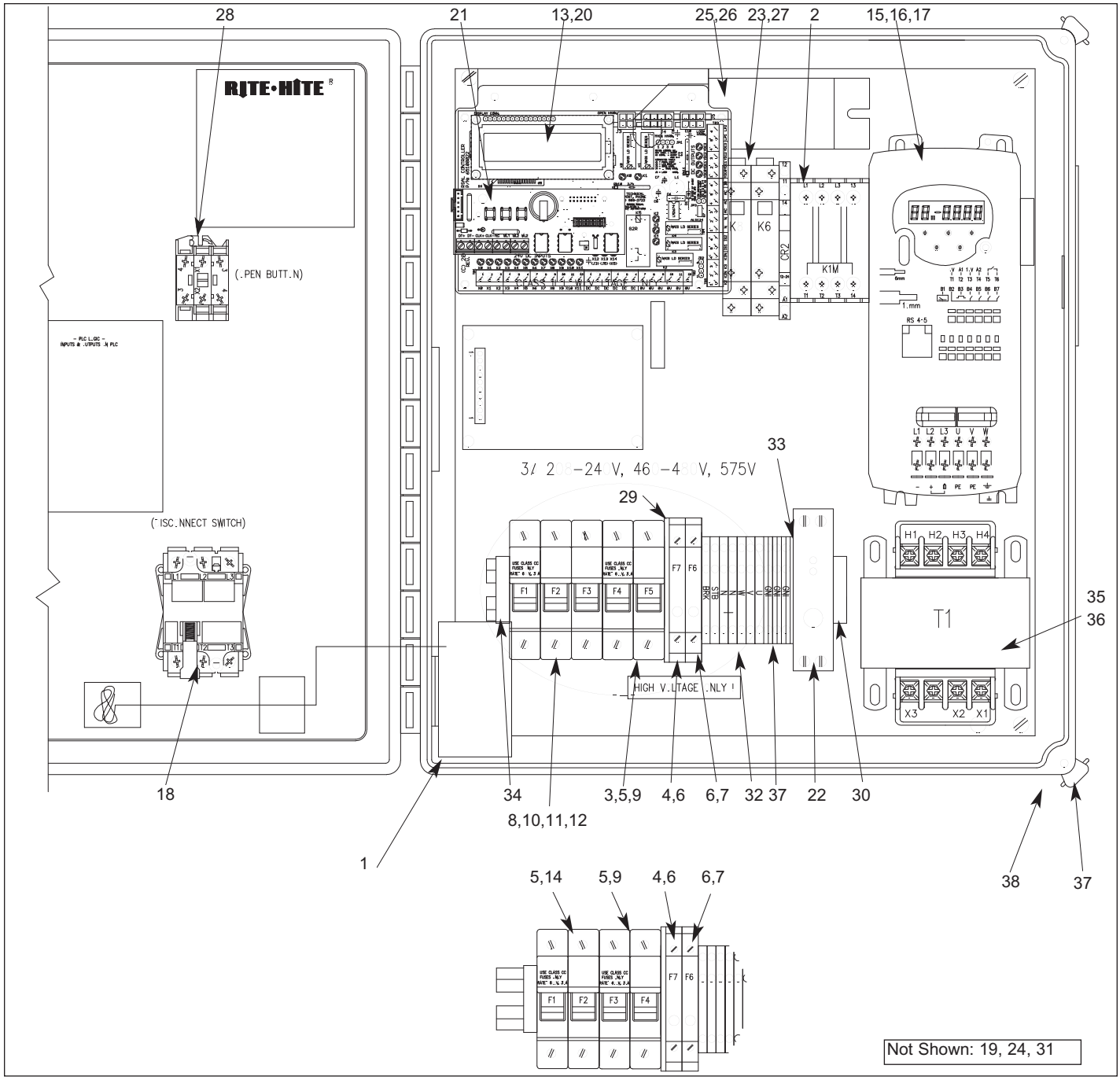
CONN.	PIN #	FUNCTION	VOLTAGE
J3	1	FLASHING LAMP OUT	0 VDC
	2	HZONE ALARM	0 VDC
	3	DC POWER OUT	24 VDC
	4	RESET INPUT (X12)	24 VDC
J4	1	UNUSED	
	2	DC COMMON INPUT	0 VDC
	3	DC POWER INPUT	24 VDC
	4	24V AC INPUT	24 VAC
	5	24V AC COMMON (NI)	24 VAC
	6	INVERTER COMMON	24 VDC
	7	INVERTER OUTPUT (K1)	24 VDC
	8	INVERTER OUTPUT (K6)	24 VDC
J5	1	LOOP INPUT 2	
	2	LOOP INPUT 1	
	3	DC POWER OUT	24 VDC
	4	DC COMMON OUT	24 VDC
	5	DC POWER OUT	24 VDC
	6	LOOP INPUT (X13)	24 VDC

CHAPTER 11 - ELECTRICAL CABLE IDENTIFICATION

38.1



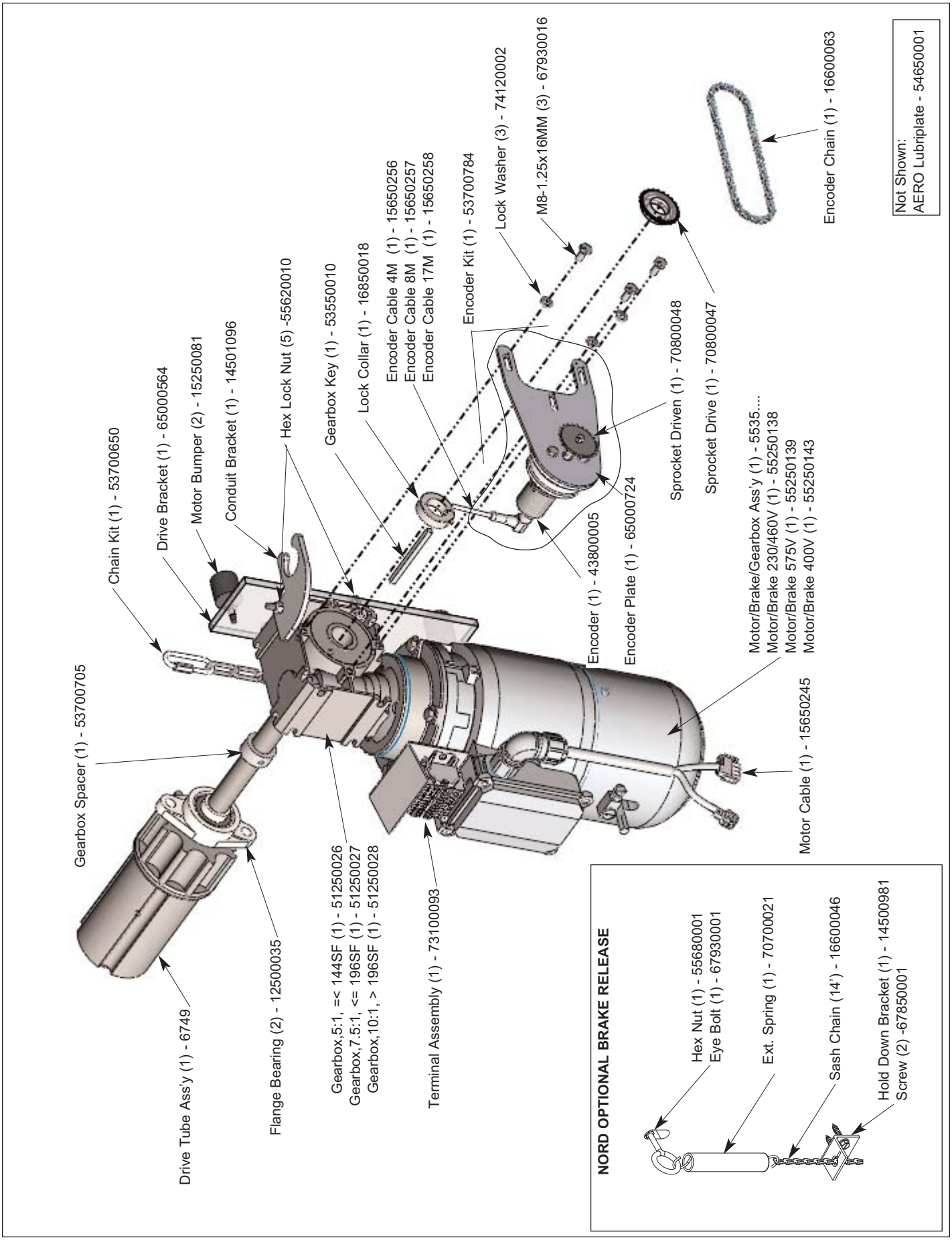
CHAPTER 12 - CONTROL BOX PARTS / LIST



ITEM	QTY	DESCRIPTION	P/N
1	1	Ass'y (C-Box, BackPanel, Enclosure w/labels)	1744....
2	1	Contactor 24VAC,16A, 50/60 Hz (Chain hoist)	17000020
3	2	Fuse, .5 amp, 600V Time Delay (400-575V)	51000001
4	1	Fuse, 1 amp, 250V Time Delay (208-240V)	51000002
5	1/2	Fuse Holder, 3 Pole, 600V, 30A (3Ø-1; 1Ø-2)	51000003
6	2	Fuse Holder, 1 Pole, 300V, 12A	51000004
7	1	Fuse, 2 amp, 250V, Time Delay	51000005
8	1	Fuse Holder, 3 Pole, 600V, 30A (not 220V 1Ø)	51000013
9	2	Fuse, 1 amp, 600V, CC, Time Delay (208-230V)	51000023
10	3	Fuse, 10 amp, 600V, CC, KLDR (400-460V)	51000033
11	3	Fuse, 15 amp, 600V, KLDR (208-230V)	51000051
12	3	Fuse, 6A, 600V, CC, KLDR (575V)	51000055
13	1	Display, LCD, 2-Line, W/Conn	51950067
14	2	Fuse, 20 amp, 600V, KLDR (220V 1Ø)	51950077
15	1	Inverter, 2HP, 575V, 3PH, AB-FLEX40 (575V)	53300044
16	1	Inverter, 2HP, 460V, 3PH, CT (460V)	53300047
17	1	Inverter, 2HP, 230V, 1-3PH, CT (208-230V)	53300046
18	1	Kit, Disconnect Switch, w/ Handle	53700567
19	1	Kit, FasTrax Inverter Relay (not shown)	53700643

ITEM	QTY	DESCRIPTION	P/N
20	1	Kit, i-COMM Controller, Encoder	53700737
21	1	DCC, Module, I-Comm, SSI	65100025
22	1	Power Supply, DIN, 24VDC, 18W	65700006
23	1/1	Relay, SPDT,24VDC,10AMP (warn device & brake)	66450014
24	1	Relay, SPDT, 24VAC/DC, 6 Amp, Term (upgrade)	66450033
25	1	Kit,Resistor,Inverter,230V,2HP (doors >100 FT^2)	53700689
26	1	Kit,Resistor,Inverter,460V,2HP (doors >100 FT^2)	53700688
27	1/1	Socket, Relay,1Pole,250VAC,10AMP (W.D. & Brake)	70350002
28	1	Switch, Push Button, Ext, Green, Illum, 22MM	72700005
29	1	Terminal, End Barrier, Fuse Holder	73100019
30	4/6	Terminal, End Stop, Screwless	73100024
31	1	Terminal, WA, Cage, 20A, Jump, 2P	73100081
32	7	Terminal, WA, Cage, 20A, 3 Hole	73100085
33	1	Terminal, WA, Cage, 20A, 3 Hole, Barrier	73100086
34	2	Terminal, WA, Cage, 20A, 3 Hole, GND	73100087
35	1	Transformer, 100VA, 208/230/460V:24/115	73550029
36	1	Transformer, 100VA, 380/415/575V:24/115	73550030
37	2	Control Box Quick Release Latch	51950021
38	4	Control Box Mounting Tab	51950018

CHAPTER 12 - DRIVE SYSTEM SERVICE PARTS



CHAPTER 12 - MISC SERVICE PARTS

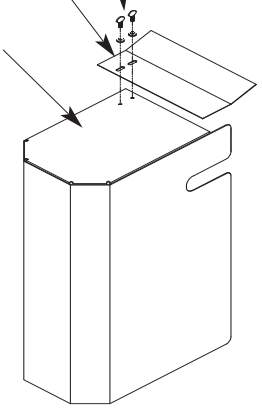
Not Shown:

FasTrax Entire Door (1) - FASTRAX
FasTrax FR Entire Door (1) - FasTrax FR
FasTrax Service Parts Kit (1) - 53700557
FasTrax Sample (1) - 67750026
Crate (1) - 53700146
FasTrax Warning Bracket, Set (Doors <8'-0" H) (1) - 14500999

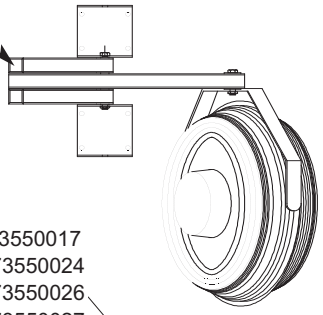
H18 (4) & H30 (4)

LH Shroud Extension Plate (1) - 65000627
RH Shroud Extension Plate (1) - 65000628

RH Drive Shroud (1) - 53700600
LH Drive Shroud (1) - 53700601



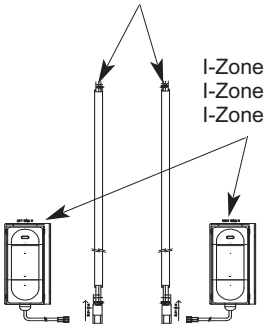
120V Curtain Fan (2) - 53700769
220V Curtain Fan (2) - 53700770
120V Fan only (2) - 13250069
230V Fan only (2) - 13250072
Arm only (2) - 11500046



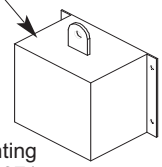
Keep Clear Warning Label (1) - 53850534
Sign Plate (Doors <8'-0" H w/o Shroud) (1) - 65000609

I-Zone Cable (1) - 1554....

I-Zone Detector Assembly (2) - 7622....
I-Zone Upgrade (a/r) - 7637....
I-Zone Cover (2) - 17900111



Transformer, 2KVA, 600:240/120 (1) - 73550017
Transformer, 2KVA, 480/240:240/120 (1) - 73550024
Transformer, 3KVA, 600:240/120 (1) - 73550026
Transformer, 3KVA, 480/240:240/120 (1) -73550027

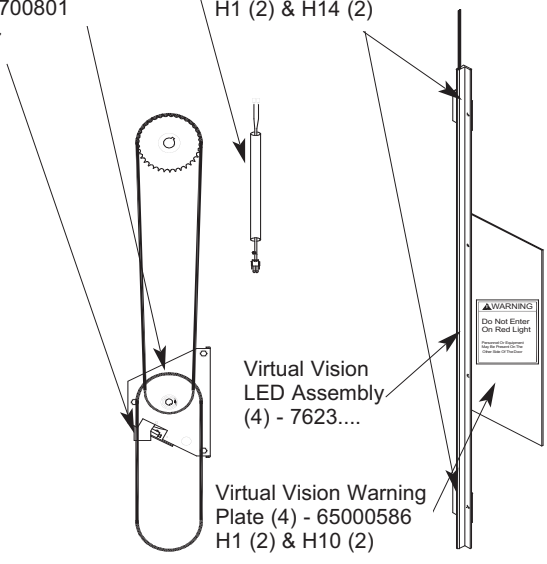


Chain Hoist Cable (1) - 15650234

Chain Hoist,4:1 Ratio (1) - 56150038
Kit,Fastrax,Chain Hoist,Nord,Interior (1) (=>8/5/09) - 53700782
Kit, Chain Hoist, Hallmark (1) (<8/5/09) - 53700565
Shroud, Chain Hoist, Interior (1) - 53700796
Kit,Fastrax,Chain Hoist,Nord,Exterior (1) - 53700801

Virtual Vision Mounting Bracket (8) - 14500971
H1 (2) & H14 (2)

Exterior Chain Hoist Switch Kit (1) - 53700687
Interior Chain Hoist Switch (1) - 72700218

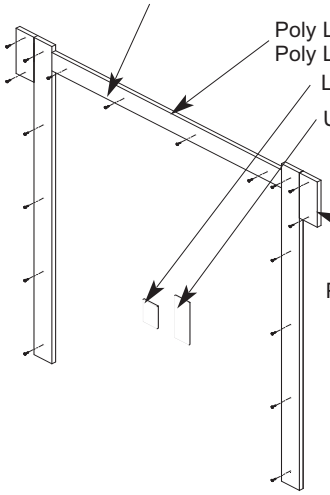


H7 (a/r)

Poly Lumber Install Kit (1) - 5339....
Poly Lumber 1 1/2"x7 1/2"x10'-6" (a/r) - 65450100

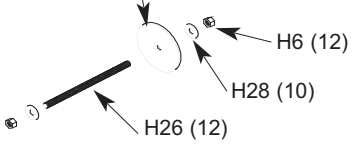
Lower Track Weld Plate (16) - 65000587

Upper Track Weld Plate (6) - 65000588



Poly Lumber Header Shim
14 1/4" (2) - 69000015

Plate, 6" Ø, znc (10) - 65000723

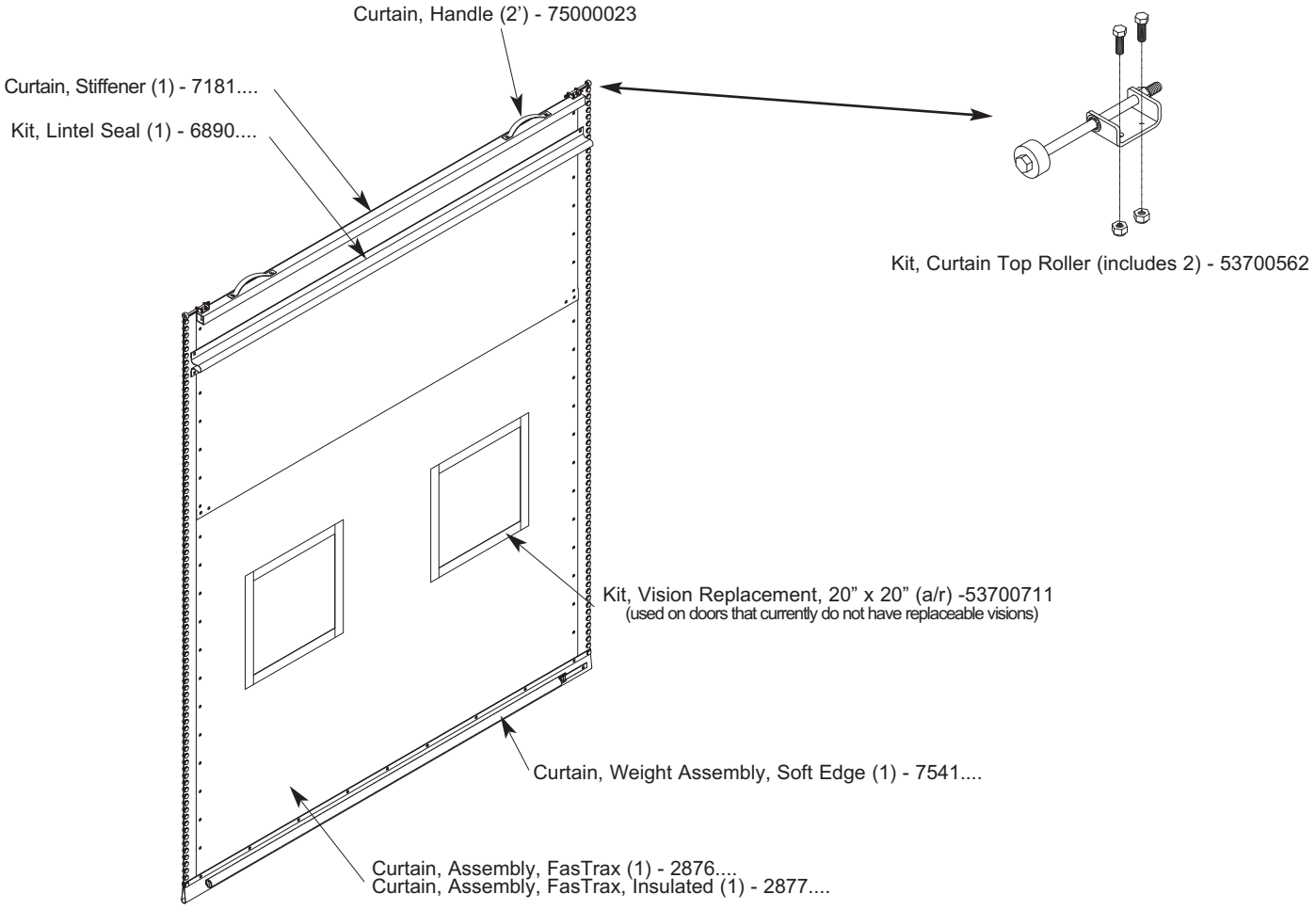


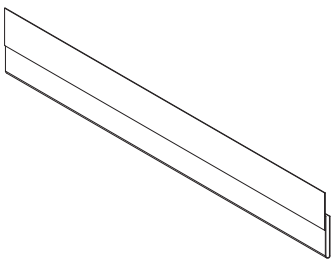
H6 (12)
H28 (10)
H26 (12)

Virtual Vision
LED Assembly
(4) - 7623....

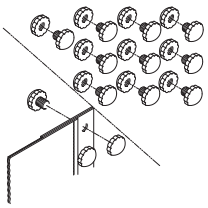
Virtual Vision Warning
Plate (4) - 65000586
H1 (2) & H10 (2)

CHAPTER 12 - CURTAIN SERVICE PARTS

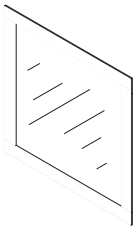




Kit, Bottom Loop Seal Replacement (1) - 6893....



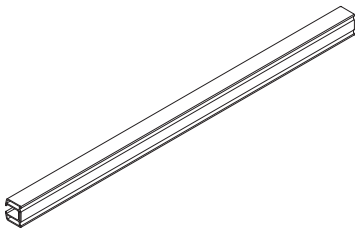
Kit, Curtain, Drive Sphere, Qty 10 (a/r) - 53700561



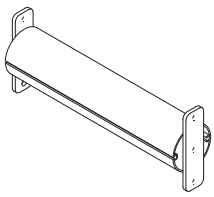
Cover, Window, UV INH,FasTrax (a/r) - 17900163

PATCH KIT PARTS LIST	
Kit, Curtain, Patch, PVC, 27 oz, Blue (a/r)	53700558
Kit, Curtain, Patch, 60 mil, Blue (a/r)	53700559
Kit, Curtain, Patch, Urethane, 27 oz, Blue (FR) (a/r)	53700774
Kit, Curtain, Patch, PVC, 27 oz, Green (a/r)	53700667
Kit, Curtain, Patch, PVC, 27 oz, Gray (a/r)	53700668
Kit, Curtain, Patch, PVC, 27 oz, Orange (a/r)	53700669
Kit, Curtain, Patch, 100 mil, Blue (a/r)	53700670
Kit, Curtain, Patch, 100 mil, Green (a/r)	53700671
Kit, Curtain, Patch, 100 mil, Gray (a/r)	53700672
Kit, Curtain, Patch, 100 mil, Orange (a/r)	53700673
Kit, Vision, Patch, 30oz, Clear (a/r)	53700778
Kit, Curtain, Patch, 100mil, Red, (a/r)	53700757
Kit, Curtain, Patch, 100mil, Wht, (a/r)	53700758

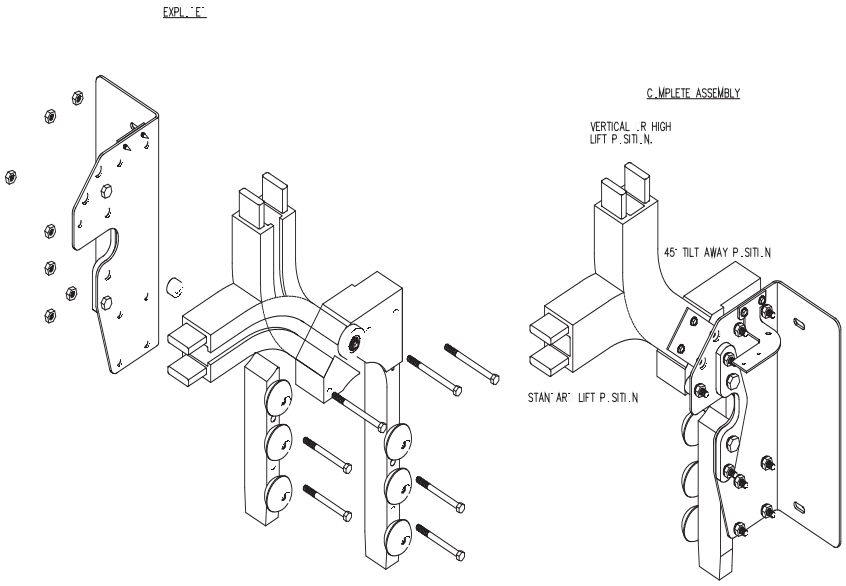
CHAPTER 12 - VERTICAL/TILT/HIGH LIFT SERVICE PARTS



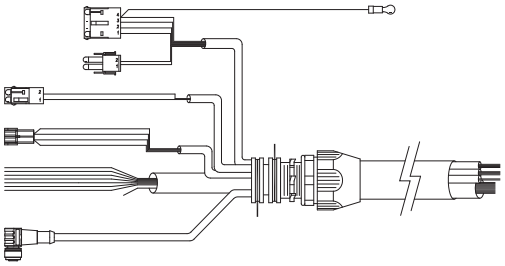
Track, Upper, =< 10'-0" O.D.H. (2) - 53700627
Track, Upper, =< 12'-0" O.D.H. (2) - 53700628
Track, Upper, =< 14'-0" O.D.H. (2) - 53700629
Track, Upper, =< 16'-0" O.D.H. (2) - 53700630



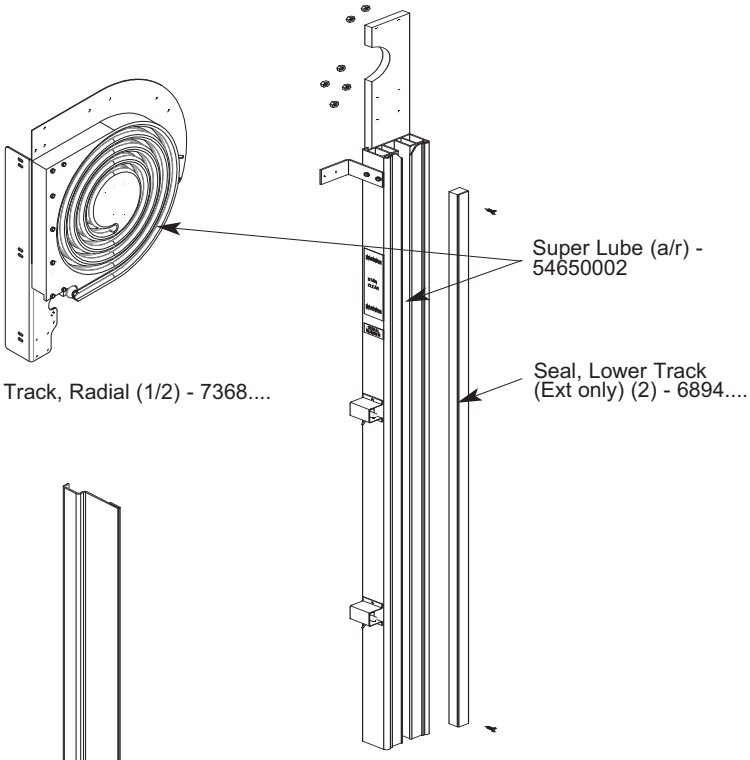
Radial Spreader Bar (1) - 7243....



Upper Track, VL, High, Stand, Tilt (1/2) - 7368....

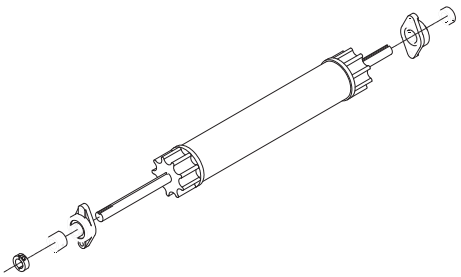


Control Box Cable Assembly (1) - 1555....

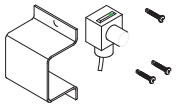


Upper Track, Radial (1/2) - 7368....

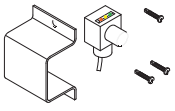
Lower Track Assembly (a/r) - 7362....



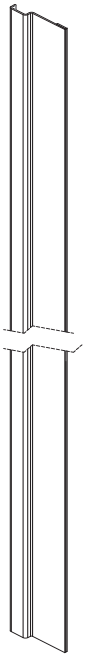
Drive Tube Ass'y (1) - 6749



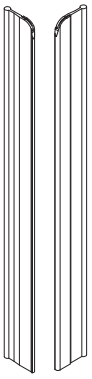
Kit, Photoeye, Thrubeam Source, 13M (2) - 53700702
Photoeye, Bracket Cover (4) - 14501207



Kit, Photoeye, Thrubeam Receiver (2) - 53700703
Photoeye, Bracket Cover (4) - 14501207

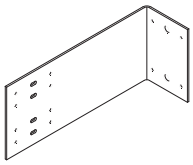


Photoeye, Wiring Cover (2) - 1917....

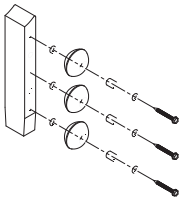


Breakaway Retention Strips (a/r) - 1481....

CHAPTER 12 - MISC SERVICE PARTS

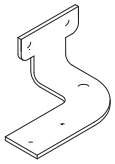


Track, Upper, Wall Mount Bracket (a/r) - 14500980

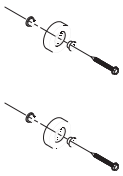


Kit, FasTrax, Refeed, LH (bracket & 3 rollers) (1) - 53700606
Kit, FasTrax, Refeed, RH (bracket & 3 rollers) (1) - 53700607

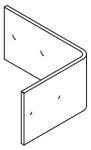
Label, Warning, Stand Clear, 2” x 9” (2) - 53850516



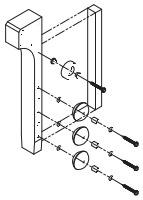
Shroud, Bracket, Upper, LH (1) - 14501097
Shroud, Bracket, Upper, RH (1) - 14501099



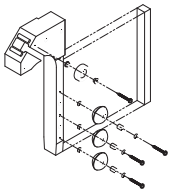
Kit, Radial Nylon Roller (2) - 53700632



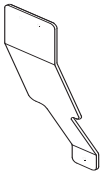
Shroud, Bracket, Lower (1) - 14501098



Kit, Bracket, Drive Cage, Radial, Left (1) - 53700608
Kit, Bracket, Drive Cage, Radial, Right (1) - 53700609

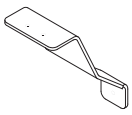


Kit, Bracket, Drive Cage, Non Radial, L (1) - 53700645
Kit, Bracket, Drive Cage, Non Radial, R (1) - 53700646

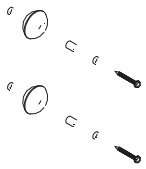


Guard, Drive Non-Radial (2 - <8' d.o.h) - 51300057

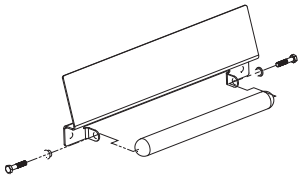
Tube, Plate, Bearing (2) - 65000563



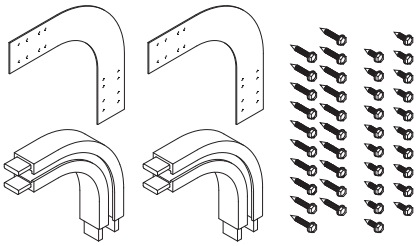
Guard, Drive Radial (2 - <8' d.o.h) - 51300058



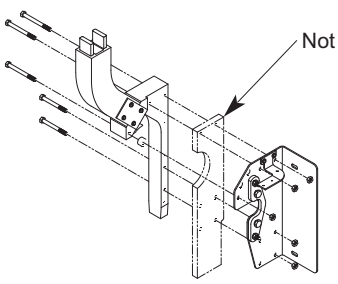
Kit, FasTrax/FR, Refeed Roller (2) (a/r) - 53700611



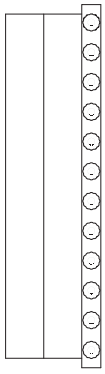
Kit, Lintel Roller (a/r) - 53700654



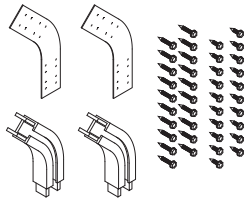
Kit, Track Connector, Radius, 90° (1) - 53600185



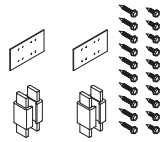
Kit, VL/High Lift Drive Cage, L (1) - 53700616
Kit, VL/High Lift Drive Cage, R (1) - 53700617



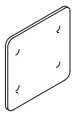
Kit, Edge Repair, 3 Sphere (a/r) - 53700712
Kit, Edge Repair, 6 Sphere (a/r) - 53700717
Kit, Edge Repair, 10 Sphere (a/r) -53700723
Kit, Edge Repair, 12 Sphere (a/r) -53700787



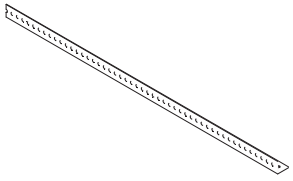
Track, Kit, Connector, Radius, 45° (1) - 53600189



Kit, Universal Track Connector (a/r) - 53600186

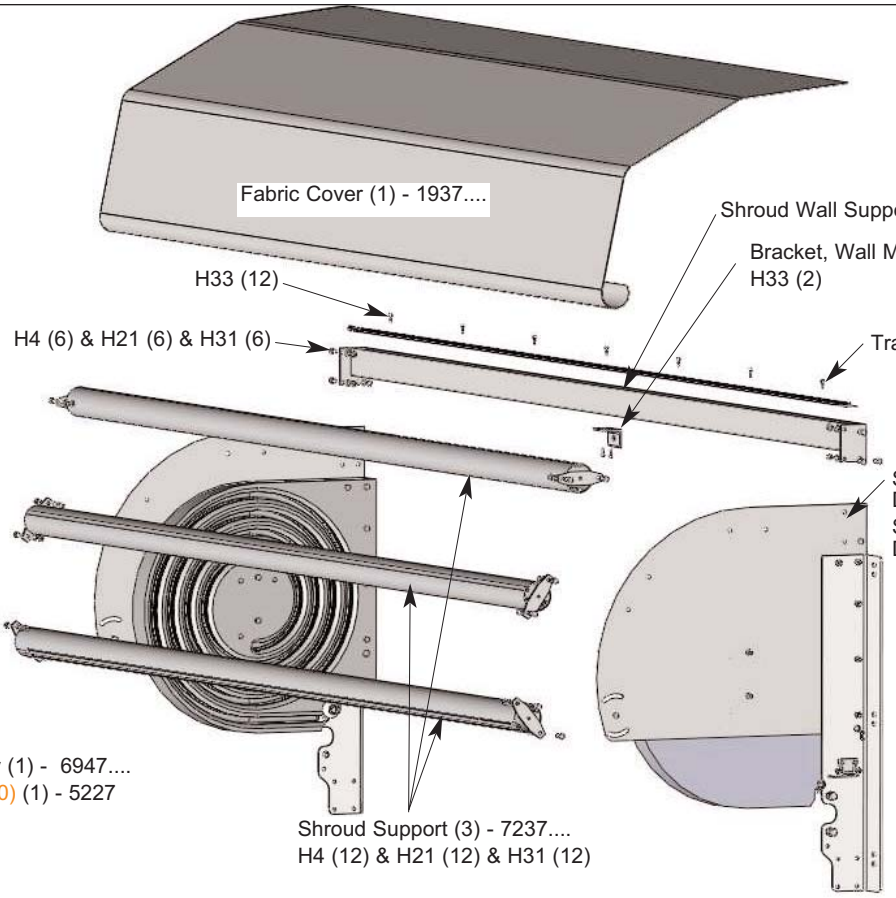


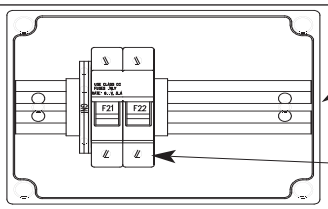
Track, Joiner, Drive Cage (2) - 65000576



Track, Perforated, Angle, 2”x2”x13’, 12GA (13’) - 71500030

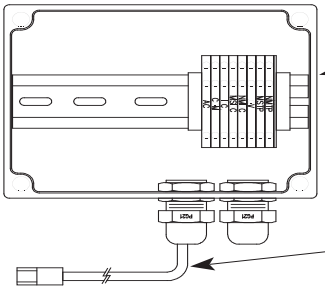
CHAPTER 12 - RADIAL SHROUD / J-BOX SERVICE PARTS





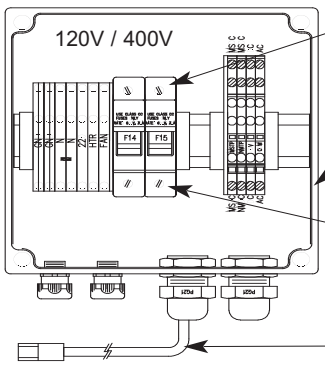
Curtain Fan Only Junction Box, FasTrax (1) - 53530012

2 Pole Fuse Holder, 600V, 30A (1) - 51000003
Fuse, 3AMP, 600V, Time Delay (1) - 51000008



Virtual Vision Only Junction Box Ass’y FasTrax (1) - 5357....

Cable, Virtual Vision (1) - 15650233



120V:
Fuse Holder, 2 Pole, 600V, 30A (208, 230, 460, 480, 575V) (1) - 51000003
Fuse, 10A, 600V, CC, Time Delay (400V) (1) - 51000011
Fuse, 6A, 600V, CC, KLDR (2-460-480V or 1-120V) - 51000055

Junction Box Ass’y FasTrax (1) - 5357....
Junction Box Ass’y FasTrax FR (1) - 5358....

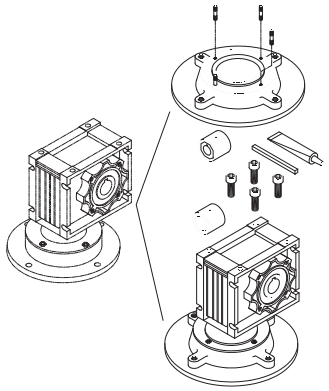
400V:
Fuse, 10A, 600V, CC, Time Delay (400V) (1) - 51000011
Fuse Holder, 1 Pole, 600V, 30A (208, 230, 460, 480, 575V) (2) - 51000019
Fuse, 4A, 600V, CC, Time Delay (400V) (1) - 51000040

Cable, Virtual Vision (1) - 15650233

CHAPTER 12 - HARDWARE & PREV GEN SERVICE PARTS

#	Hardware List:	Part #
H1	#10-24, Nylon Hex Lock Nut zinc	55600004
H2	Nut, Hex, Nylon, Lock, 1/4-20, znc	55610001
H3	Nut, Hex, Nylon, Lock, 5/16-18, znc	55620010
H4	Nut, Hex, 3/8-16, znc	55630003
H5	Nut, Hex, Nylon, Lock, 3/8-16, znc	55630005
H6	3/8-16 S.S. Hex Nut	55630006
H7	5/16" x 1.807 Fablok Blind Rivet	66840016
H8	Ring, Retaining, External, 5/16" Shaft	67020051
H9	Screw, HWHSMS, #14 x 1 1/4", znc	67850001
H10	#10-24 x 1/2" Phillips RHMS zinc	67850008
H11	Screw, Phlp, Dr/Tap, #8 x 1/2"	67850015
H12	Screw,PHSMS,Phillips,Tap,#8-18x3/4"	67850026
H13	Screw, PHSMS, Phillips, #10 x 1", znc	67850029
H14	#10-24 x 3/4" Phillips RHMS zinc	67850030
H15	Screw,FHWH,#8x9/16",BLK,K-LATH	67850065
H16	Screw,PH,Phillips,Plstite,#8-16x3/8"	67850088
H17	Screw, Phillips, Drill/Tap, #8 x 1/2"	67850115
H18	1/4-20 x 1/2" Thumb Screw GR2 znc	67860019
H19	Screw, HWH, Drill/Tap, #14x3/4", znc	67860094
H20	Screw, HHMS, 5/16-18x6", GR5, znc	67870111
H21	Screw, HHMS, 3/8-16 x 1", GR5, znc	67880002
H22	Screw, HHMS, 3/8-16x1 1/4",GR5,znc	67880004
H23	Screw, HHMS, 3/8-16 x 3 1/2", znc	67880017
H24	Screw, HHMS, 3/8-16 x 4", GR5, znc	67880029
H25	Screw, HHMS, 1/2-1 x 1", GR5, znc	67900003
H26	3/8-16 x 12" S.S.Threaded Rod	67900047
H27	Tape, Foam, Double Sided	72800044
H28	13/64" x 1/2 x .036 Flat Washer zinc	74100002
H29	Washer, Flat, 1/4 x 3/4 x 1/16, znc	74110001
H30	Washer,Flat,1/4x9/16"x3/32",Neoprene	74110007
H31	Washer, Lock, Split, 3/8", znc	74130002
H32	Washer, Lock, Split, 1/2", znc	74150005
H33	Self Tap/Drill #12 Screw	67850004

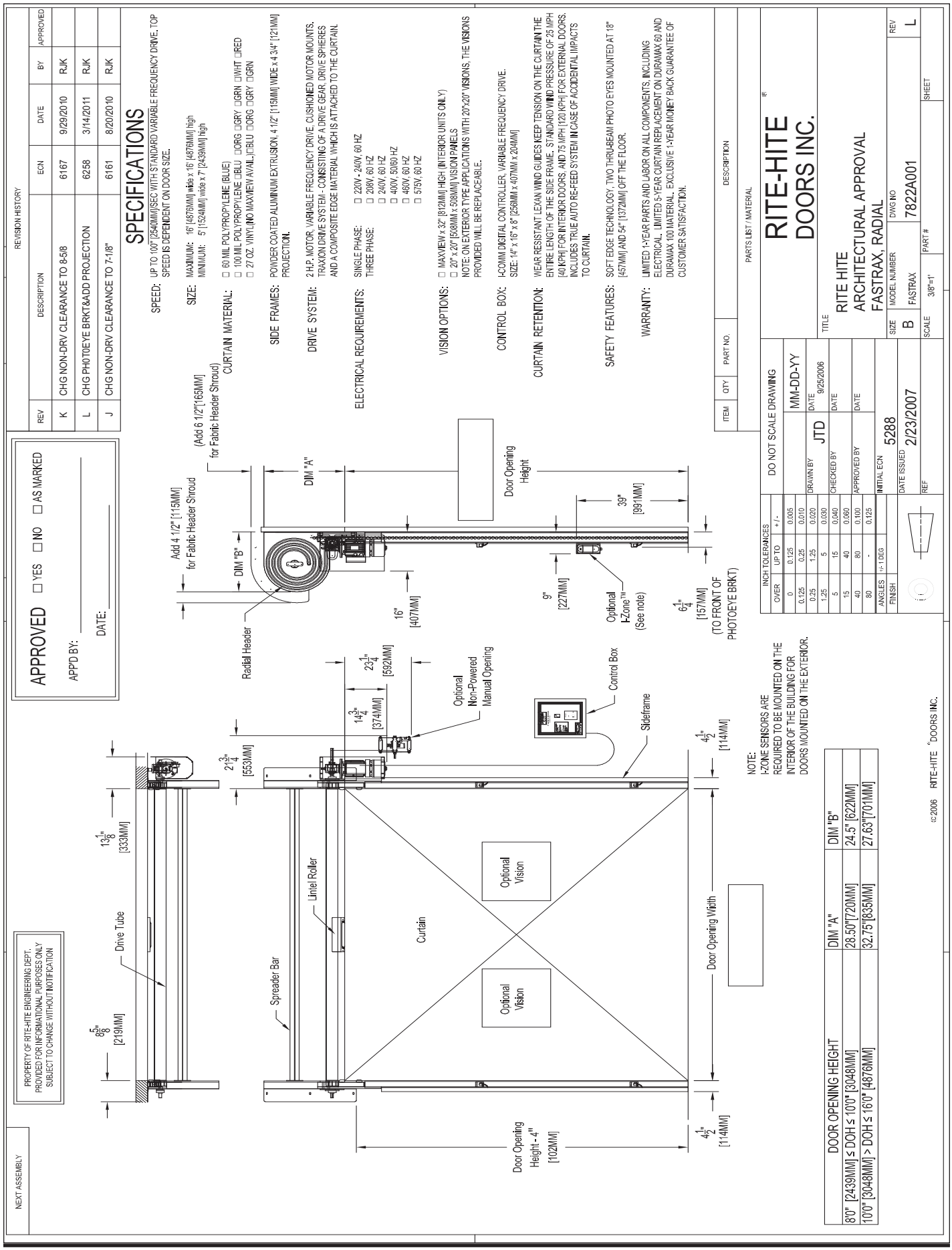
ITEM	QTY	DESCRIPTION (not shown)	P/N
1P	1	Kit, FasTrax, / FR, L/S, Ass'y, RH	53700555
2P	1	Kit, FasTrax, / FR, L/S, Ass'y, LH	53700556
3P	1	Kit, FasTrax, / FR, L/S, Chain	53700644
4P	1	Kit, FasTrax, / FR, L/S, Ass'y, Spanish, RH	53700677
5P	1	Kit, FasTrax, / FR, L/S, Ass'y, Spanish, LH	53700678
6P	1	Kit, FasTrax, / FR, L/S, Ass'y, German, RH	53700679
7P	1	Kit, FasTrax, / FR, L/S, Ass'y, German, LH	53700680
8P	1	Kit, FasTrax, / FR, L/S, Ass'y, Dutch, RH	53700681
9P	1	Kit, FasTrax, / FR, L/S, Ass'y, Dutch, LH	53700682



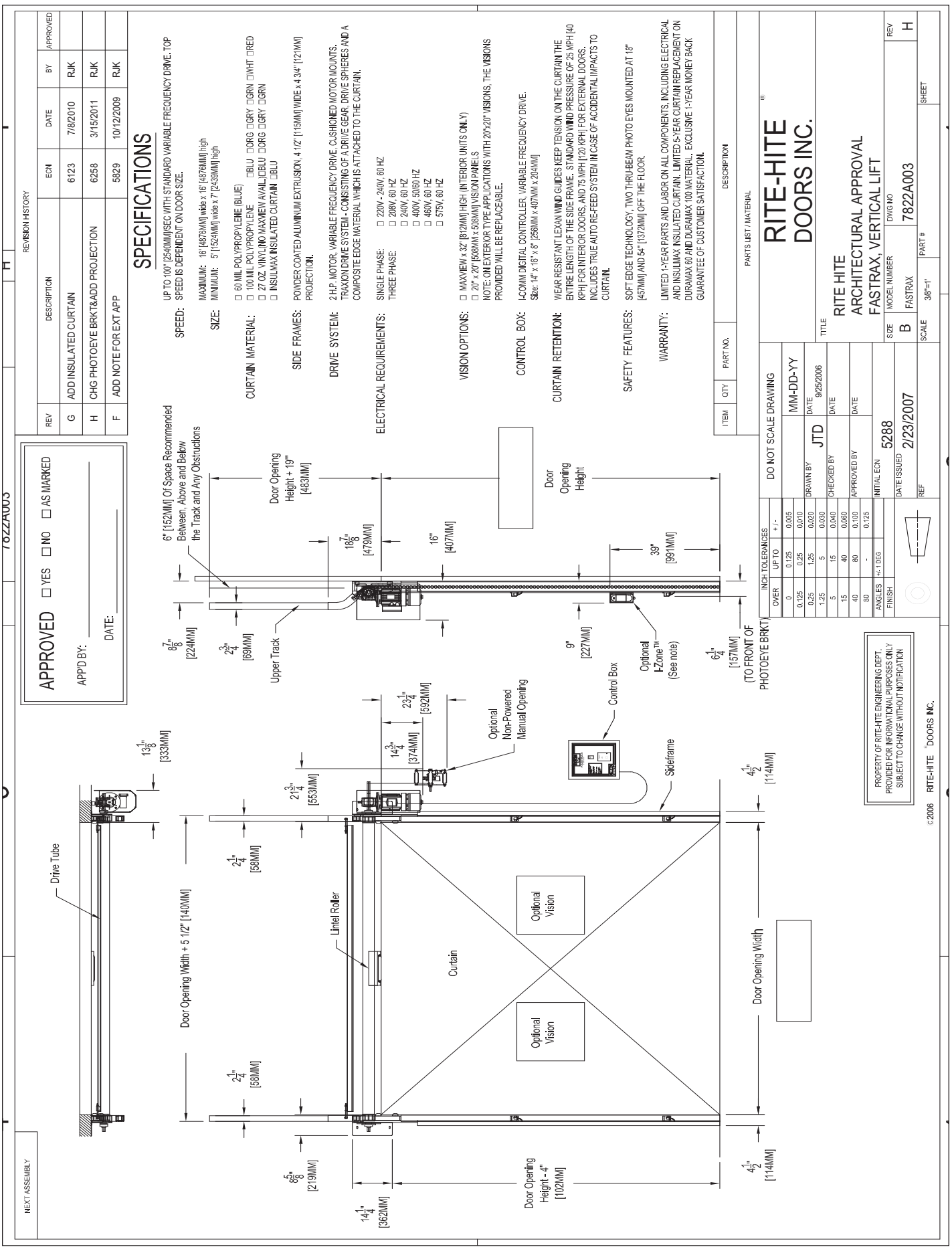
Kit,FasTrax,Gearbox,Retrofit, Hallmark,5:1 (<8/5/09) - (1) 53700779
Kit,FasTrax,Gearbox,Retrofit, Hallmark,7.5:1 (<8/5/09) - (1) 53700780
Kit,FasTrax,Gearbox,Retrofit, Hallmark,10:1 (<8/5/09) - (1) 53700781

Refer to Partslist Manual for exploded views and part numbers on doors prior to 8/13/10.

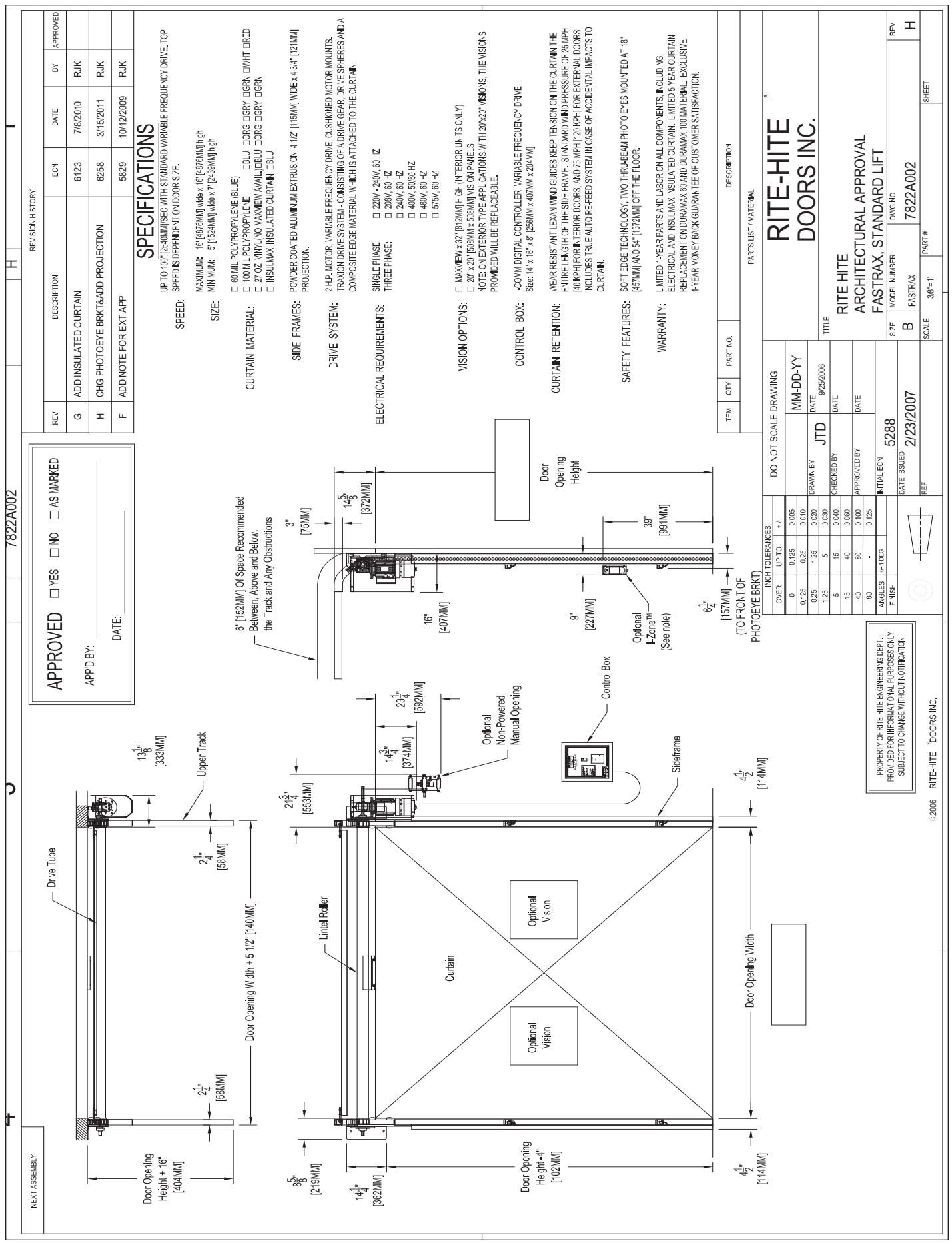
CHAPTER 13 - RADIAL ARCHITECTURAL DRAWING



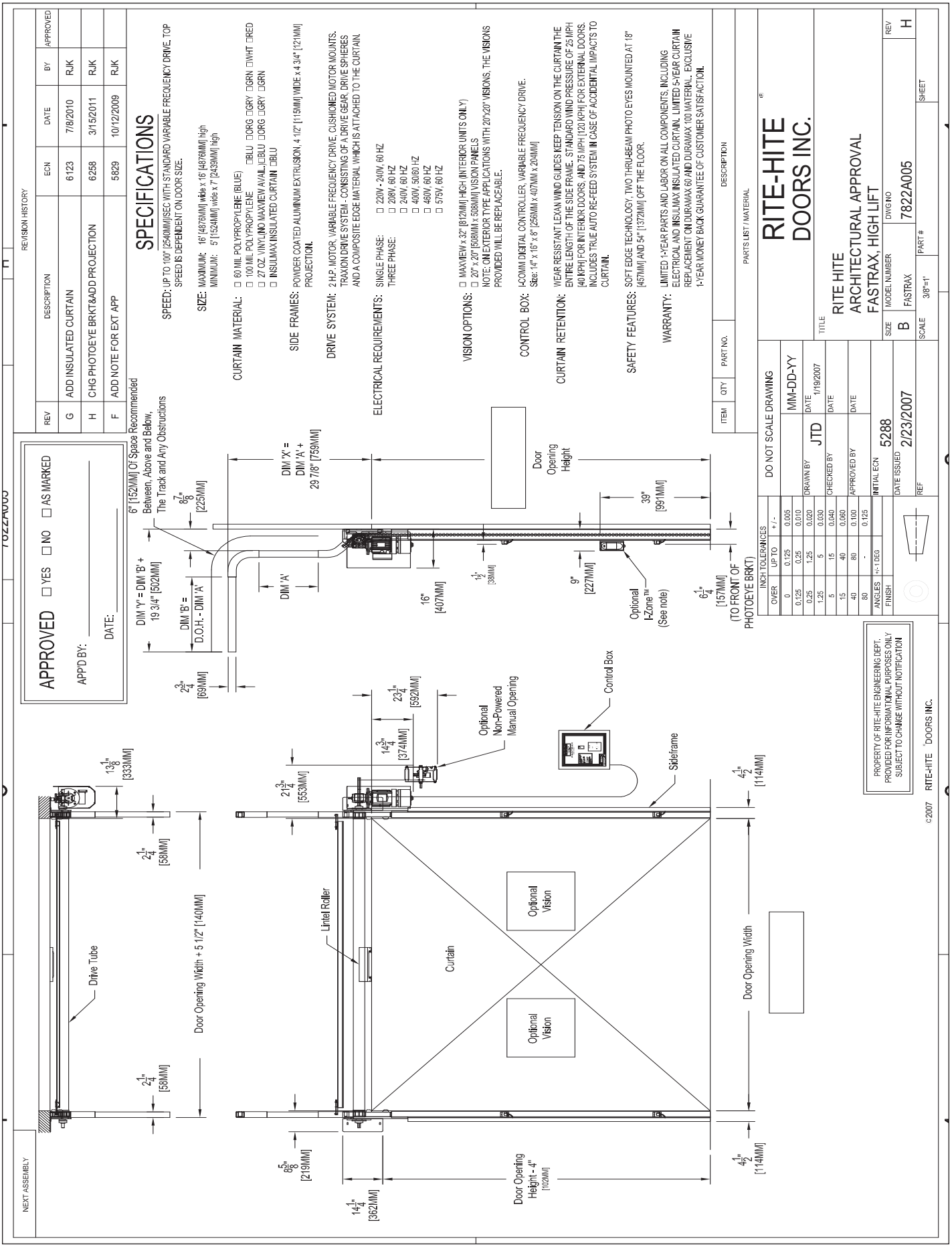
CHAPTER 13 - VERTICAL ARCHITECTURAL DRAWING



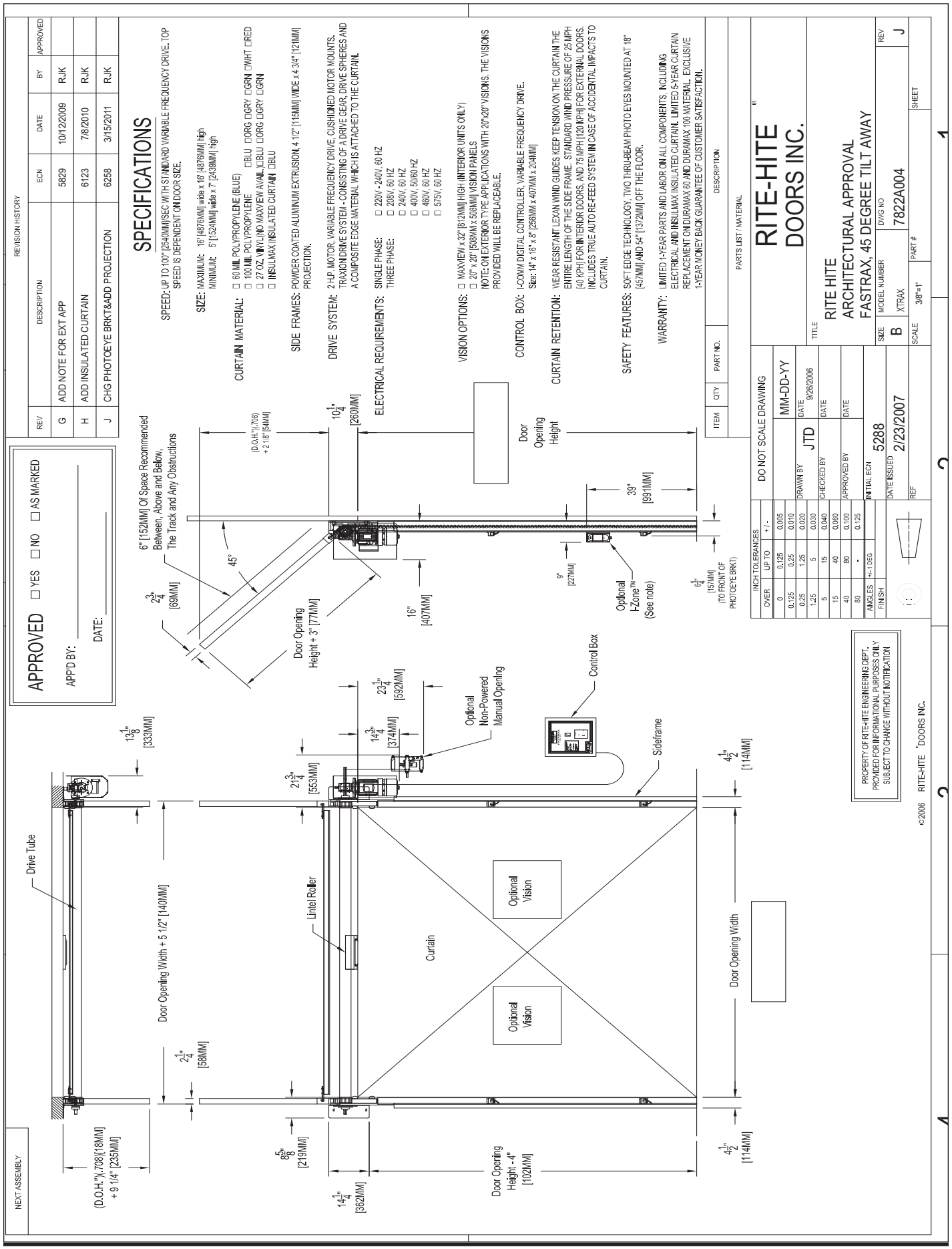
CHAPTER 13 - STANDARD LIFT ARCHITECTURAL DRAWING



CHAPTER 13 - HIGH LIFT ARCHITECTURAL DRAWING



CHAPTER 13 - 45° TILT ARCHITECTURAL DRAWING



WARRANTY

RITE-HITE DOORS, INC. warrants that its FasTrax door will operate or perform in conformance with the published specifications when subjected to normal, proper and intended usage and be free from defects in material and workmanship for a period of one (1) year from the date of shipment.

RITE-HITE DOORS, INC. warrants that the FasTrax 60 and 100 mil curtain fabric integrity only, shall be free from material defects for a period of five (5) years.

The curtain fabric warranty covers material failure under normal wear conditions.

It does not cover seals, spheres, edging or damage incurred from abuse, misuse, impact, accidents or disaster. It does not cover 27oz material, vision wear or labor.

Fuses, bulbs, power failures or electrical power surges are items that are not considered warranty.

All claims for breach of this warranty must be made within thirty (30) days after the defect is or can, with reasonable care, be discovered to be entitled to the benefits of this warranty, the products must have been properly installed, maintained, operated within their rated capacities, and not otherwise abused.

Periodic lubrication and adjustment is the sole responsibility of the end user.

This warranty is RITE-HITE DOORS, INC. exclusive warranty. RITE-HITE DOORS, INC. expressly disclaims all implied warranties including the implied warranties of merchantability and fitness.

Non-standard RITE-HITE DOORS, INC. warranties, if any, must be specified by RITE-HITE DOORS, INC. in writing.

In the event of any defects covered by this warranty, RITE-HITE DOORS, INC. will remedy such defects by repairing or replacing any defective equipment or parts, bearing all of the costs for parts, labor, and transportation based on the warranty policy.

This shall be the exclusive remedy for all claims whether based on contract negligence or strict liability. Neither RITE-HITE DOORS, INC. any other manufacturer whose products are the subject of this transaction, nor any RITE-HITE DOORS, INC. representative, shall in any event be liable for any loss or use of any equipment or incidental or consequential damages of any kind whether for breach of warranty, negligence, or strict liability. The application of a manufacturer's specifications to a particular job is the responsibility of the purchaser. RITE-HITE DOORS, INC. sole obligation with respect to its product shall be to repair or (at our own discretion) replace the product.

RITE-HITE DOORS INC

8900 N. Arbon Drive

P.O. Box 245020

Milwaukee, Wisconsin 53224-9520

Sales: 414-355-2600

Toll Free: 800-456-0600

Aftermarket: 563-589-2781

Service: 563-589-2722

Service Fax: 563-589-2737

Representatives in All Major Cities

www.ritehite.com