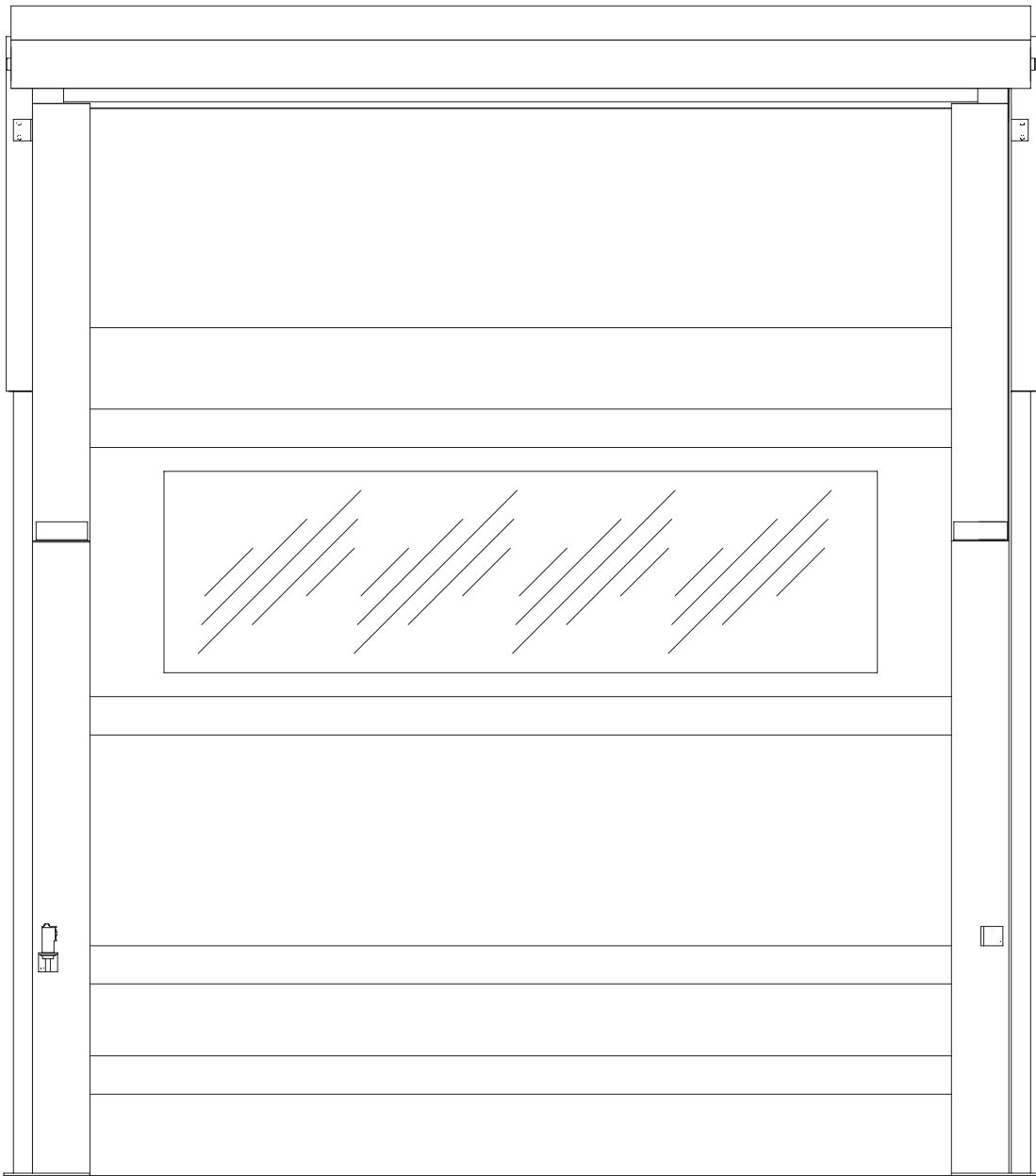


ROLL-TOP™

AUTOMATED ROLL-UP CURTAIN



This Manual Covers Serial No. 42994 and Units Shipped to Date, Refer to 1325B for Units Prior to 3-13-2008.

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NOTICE TO USER

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

Thank you for purchasing the ROLL-TOP™ by FROMMELT® SAFETY PRODUCTS.

The ROLL-TOP™ automated roll-up curtain integrates fabrics with technology to provide an effective safety barrier against sparks, harmful light emissions and physical contact with the machine by the operator.

FROMMELT® SAFETY PRODUCTS 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, may receive separate prints with the unit. Before returning any parts, you must contact the Technical Support group to obtain authorization and an PO#. Returned parts will not be accepted without a PO#.

If any procedures for the installation, operation or maintenance of the ROLL-TOP unit have been left out of this manual or are not understood, contact Technical Support at 1-563-589-2722.

TOOLS & MATERIAL REQUIRED

- Tube of Anti-Seize or Grease Lubricant
 - 3/8", 7/16", 1/2" & 9/16" Open End or Ratchet Wrench
 - 3/8", 7/16", 1/2" & 9/16" Socket
 - Phillips Screwdriver
 - Straight Screwdriver (small 1/8" blade)
 - Hammer
 - Hammer & Cordless Drill (3/8" or 1/2") w/Phillips Bit
 - 3/8" or 1/2" Masonry Bits
 - 5/16" Nut Driver
 - Tape Measure 25' Minimum
 - Wire Strippers and Side Cutters
 - Retaining Ring Pliers
 - Set of Allen Wrenches
 - 6' Carpenters Level, Water Level
 - Multi-Meter
 - Straps For Lifting Roller Tube
 - Forklift
 - 8' or 10' Step Ladder
- Hardware for anchoring to the floor are not provided.*

FEATURES

- Unique design for special applications.
- Heavy-Duty, U.V. protected 50oz Armor Pleat curtain fabric protects operator from intense light and flying debris.
- Smooth, fast opening operation.

WARRANTY

FROMMELT SAFETY PRODUCTS warrants that it's ROLL-TOP unit, including electrical components, will be free from defects in design, materials and workmanship for a period of one (1) year from the date of shipment. It does not cover damage incurred from abuse, misuse or impact. Chains, fuses, bulbs, and fogging of vision window, are not considered to be covered by 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 owner. This is FROMMELT SAFETY PRODUCTS exclusive warranty. FROMMELT SAFETY PRODUCTS expressly disclaims all implied warranties including the implied warranties of merchantability and fitness. Non-standard FROMMELT SAFETY PRODUCTS warranties, if any, must be specified by FROMMELT SAFETY PRODUCTS in writing.

In the event of any defects covered by this warranty, FROMMELT SAFETY PRODUCTS will remedy such defects by repairing or replacing any defective equipment or parts. This shall be the exclusive remedy for all claims whether based on contract negligence or strict liability. Neither FROMMELT SAFETY PRODUCTS any other manufacturer whose products are the subject of this transaction, nor any FROMMELT SAFETY PRODUCTS 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.

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SUPPORT POST INSTALLATION

WARNING!!!

Make sure that the assembly is securely attached to the forklift to avoid injury due to equipment slipping or falling. Make sure that work area is barricaded to prevent the potential of unauthorized personnel entering the area and becoming injured. Make sure that no one is standing under the assembly while it is being lifted. Ensure that all workers are wearing head, eye and foot protection.

CAUTION !!!

A floor that is not sound and level may cause personal injury and/or equipment damage due to failure or collapse of the ROLL-TOP.

1. Which workstation and which side of the workstation is the unit to be located?
2. Is anything buried in the floor where the anchors go?
3. Does the installation allow for clearance for robotic, machining, welding or other types of operation?
4. Does the installation meet all applicable robotic, machining, welding or other workstation safety requirements such as is contained in the following:
 - a. OSHA Instruction CPL 2-1.24 (Mechanical Power Presses)
 - b. UL Standard for Safety UL 325 (Door, Gate, Louver and Window Operators Systems)
 - c. ANSI RIA R 15.06-1999 (Industrial Robots and Robot Systems Safety Requirements)
 - d. CSA Z434-03 (Industrial Robots and Robot Systems - General Safety Requirements)
 - e. CSA Z432-04 (Safeguarding of Machinery)
5. Are any special work permits required?
6. Can the lifting device, lift the unit into position? Are there any overhead obstructions?
7. Is a qualified electrician ready to bring in the power and wire the controls ?
8. Can electrical power to the workstation be shut off without interfering with other plant operations?
9. Can material handling equipment be detoured during installation.
10. How will the work area be barricaded?
11. Does the customer wish to be present to observe?
12. Check that floor is level, in sound condition and does not have cracks or other flaws so that the unit will be level and the support posts will be plumb.
13. Plan the installation so that it will not interfere with the machining, welding or other work processes of the workstation.
14. Remove parts from containers and check that all are present.

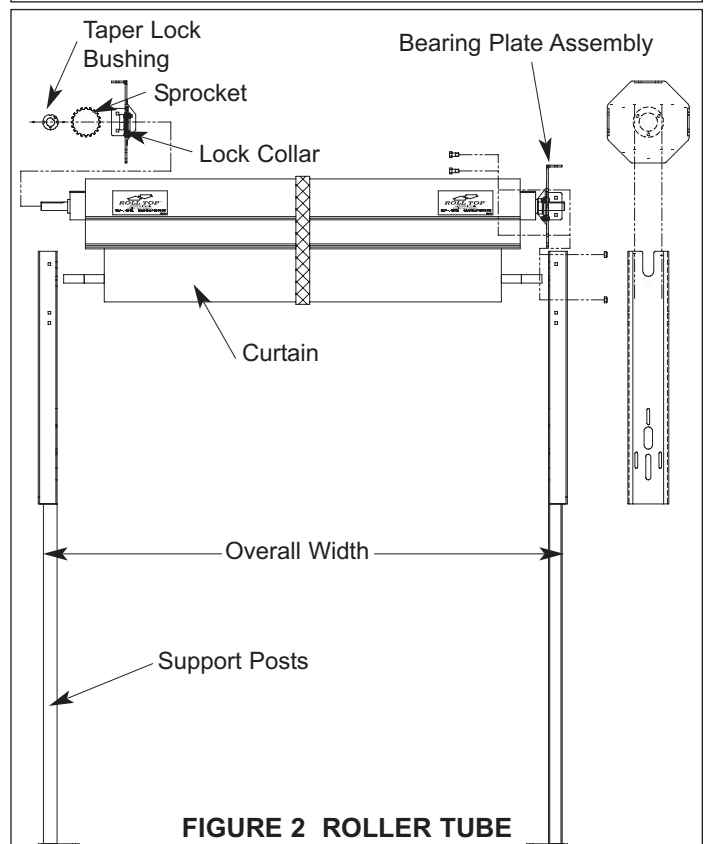
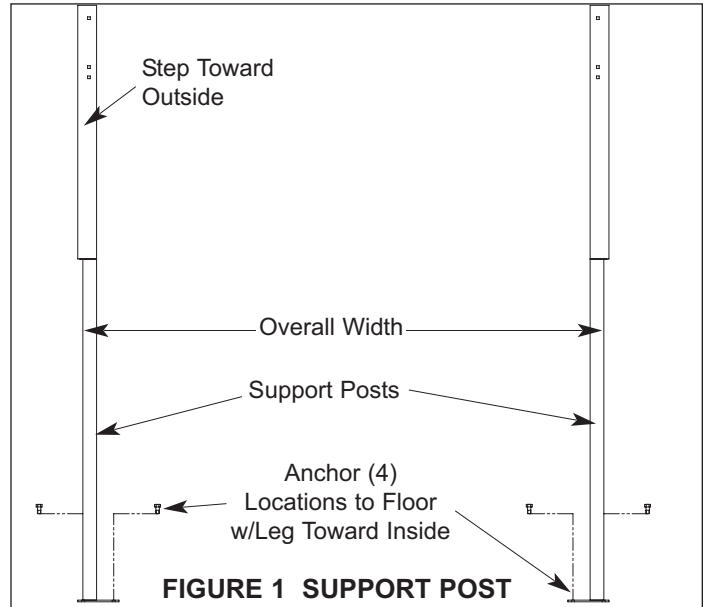
SUPPORT POST INSTALLATION

1. Stand support posts in the position to be installed. Make sure they are properly oriented, square to each other and spaced at the proper overall width, *Figure 1*.

NOTE:

Shim as necessary, using solid plastic or metal to fully support posts. Drill through shims to allow for proper installation of anchor bolts.

2. Mark and drill anchor mounting holes.
3. Plumb and square posts and fasten to the floor with minimum 3/8" anchors.



ROLLER TUBE / FRONT TRACK INSTALLATION

IMPORTANT!!!

Lock collar **MUST** be properly tightened, make sure it is securely fastened to the bearing plate and the set screw is tightened.

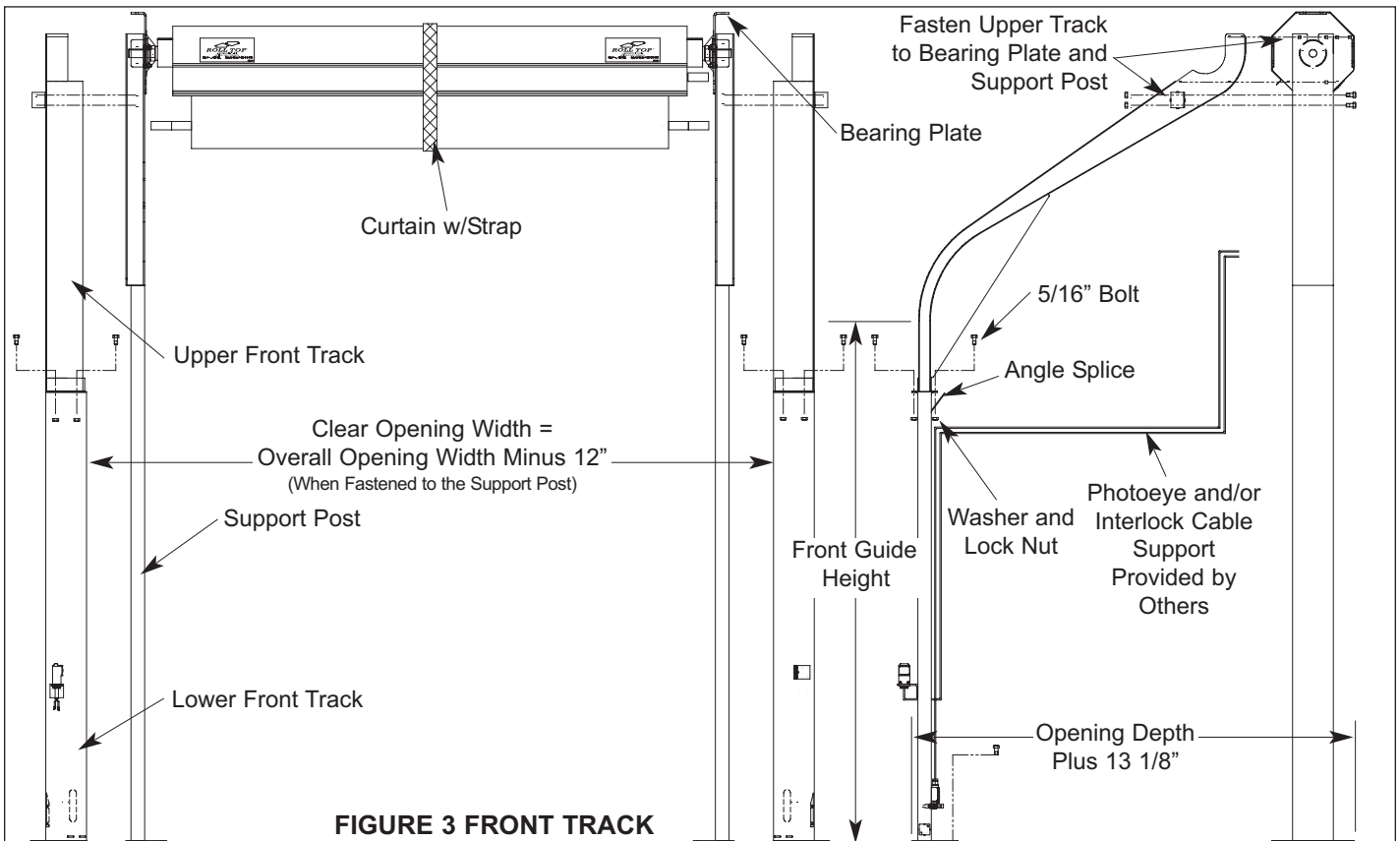
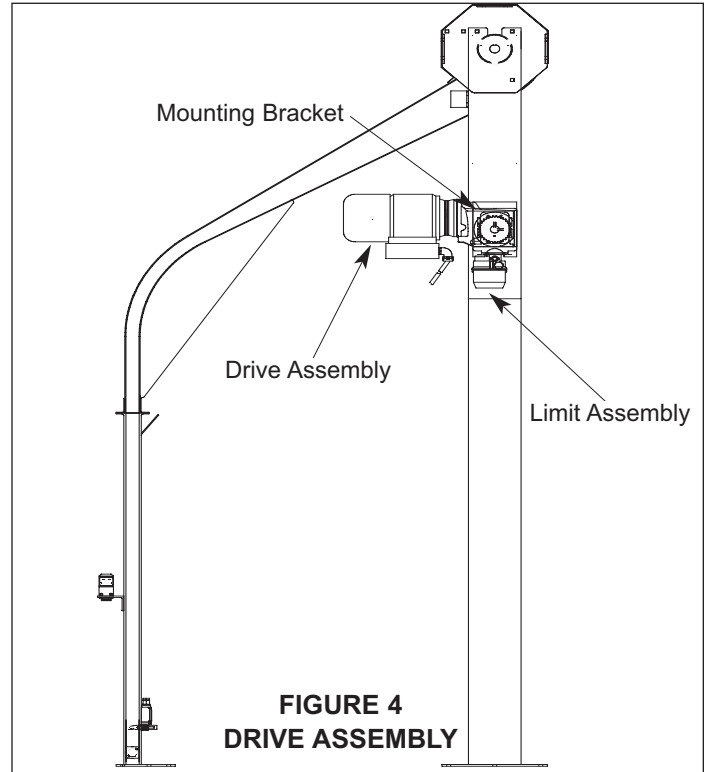
ROLLER TUBE INSTALLATION

1. Slide bearing lock collar on shaft with recess facing out.
- NOTE:** Bearing lock collar **MUST** be tight against roller tube spacer.
2. Install bearing plate assembly to the roller tube on the drive and non-drive sides.
 3. Facing end of shaft, tighten lock collar by turning clockwise until snug. A hammer and punch are required to rotate and tighten the lock collar, tighten set screw.
 4. Install drive sprocket and taper lock bushing flush with end of the shaft, **Figure 2**.
 5. Place roller tube on lift or strap and lift into place.
 6. Slide shaft down into the notch on the support post, align bearing plate with the (4) holes in the support post and fasten using 3/8" carriage bolts and lock nut, **Figure 2**. Torque bolts to 80 ft/lbs and repeat for opposite side.

FRONT TRACK INSTALLATION

1. Fasten lower front track to upper front track at the splice, using the (4) 5/16" bolt, flat washer and lock nuts each side.

2. Attach front track to inside face of the bearing plates using the (2) 3/8" carriage bolts, lock nuts on front of support, per side, **Figure 3**.
3. Tracks may need to be flexed to align and assemble.
4. Plumb, square and fasten to the floor using minimum 3/8" anchors.



DRIVE INSTALLATION

MOTOR INSTALLATION

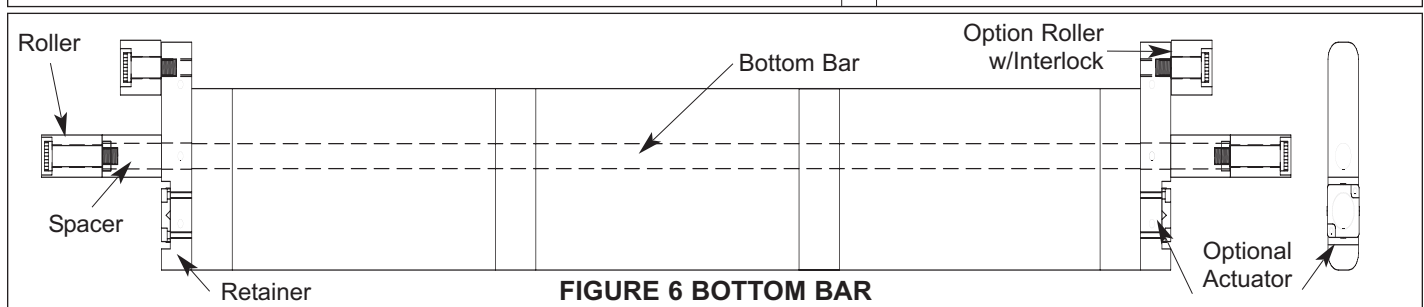
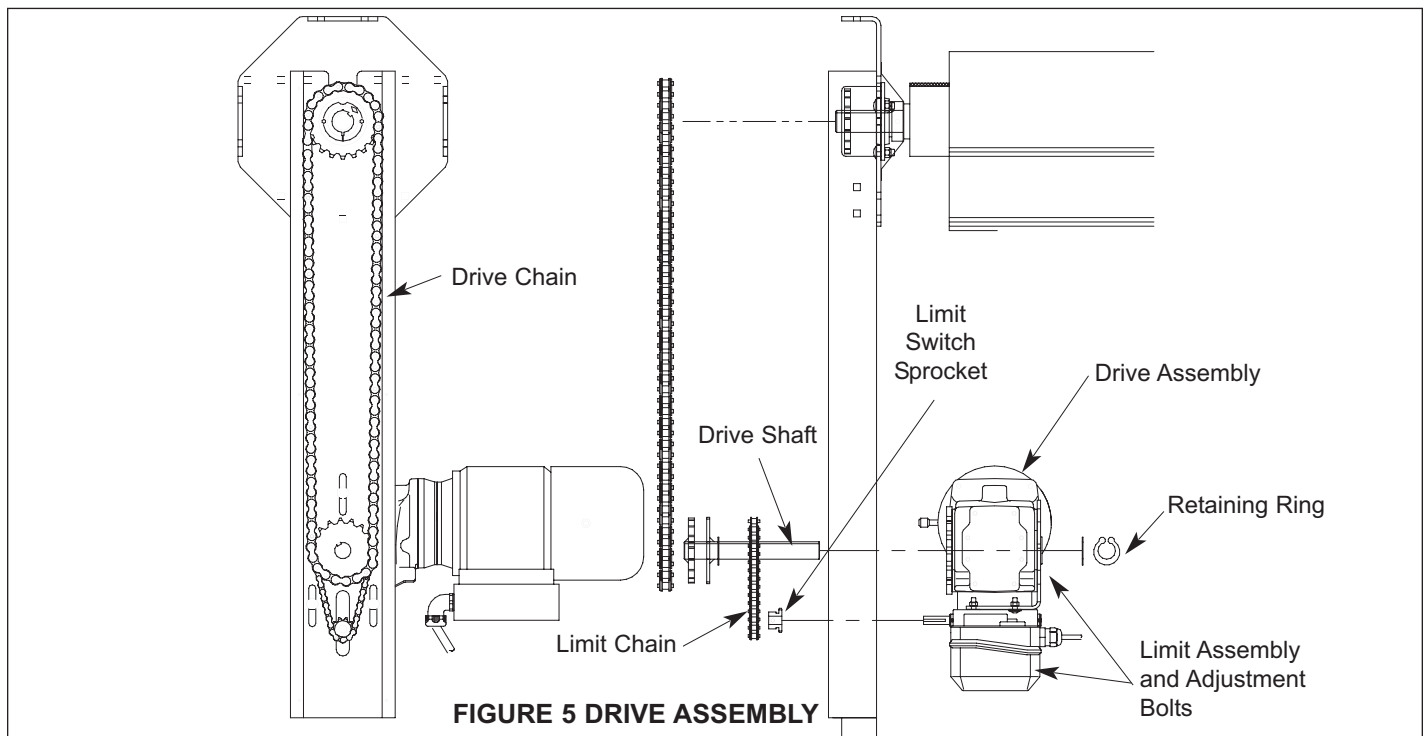
1. Fasten drive assembly to the support post using (3) 3/8" carriage bolts, washers and lock nuts provided, **Figure 4**. Push to top of slots and tighten bolts.
2. Apply a grease lubricant or anti-seize (not supplied) to the drive shaft to ease installation and maintenance of gearbox.
3. Slide sprocket/shaft assembly through the support post and into the gearbox shaft, **Figure 5**.
4. Install 1/4" x 3/16" key into the keyway from the back side until it is past the retaining ring slot. The key should slide freely, forcing the key may cause distortion.
5. Gearbox case should be flush with the end of the retaining ring groove, **Figure 5**.
6. Install retaining ring into shaft groove, **Figure 5**.
7. Slide limit switch sprocket onto shaft of limit switch and place flush with end of shaft.
8. Tighten the set screws onto the shaft with allen wrench to 75 in/lbs and lock-tight.
9. Install #35 limit switch chain onto sprockets, place connector link onto chain and lock in place, **Figure 5**.
10. Install #50 drive chain onto sprockets, **Figure 5**.

11. Tighten chain by loosening drive mounting bracket, pulling toward floor, and then tighten bolts.
12. To adjust limit switch chain, loosen up the limit switch mounting bolts and adjust so the chain deflects approximately 1/4". More than 1/4" may cause wear on the limit switch shaft bearing assembly. Make sure chain is tight enough so it does not slip over the teeth.

NOTE: *The motor and brake cable is pre-wired into the motor junction box, but needs to be terminated to the controls later in the installation process. Electrical drawings are located in the control or parts box and on Pages 10 thru 12.*

CURTAIN BARRIER BOTTOM BAR

1. **Figure 6** shows a drawing of the curtain bottom bar detailing the barrier bar rollers, retainer, and actuator for the optional interlock.
2. If after installation the curtain is not tracking squarely, manually lower the curtain to expose the hook / loop fastener on the roller tube and curtain. Loosen the curtain from one of the ends and raise or lower the curtain based on the direction the curtain is tracking. Distance should be 5/8" from curtain to upper guide, guides may need to be flexed to square properly.



ELECTRICAL INSTALLATION



WARNING!!!

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!!!

The control box and all wiring should be installed by a qualified electrician in accordance with all national and local electrical codes. If the rigid conduit is installed, bonding must be maintained between conduit and ground connections by using ground bushings and a jumper wire. Solid 3/4" conduit is recommended.

IMPORTANT!!!

Do not connect or install any activation device until power up/start up process is completed.

NOTE: The Roll-Top may be wired directly into the workstation control system.

Flexible non-metallic conduit must be securely fastened at least every 3' to meet National Electrical Code requirements (N.E.C. 351-27).

All necessary wiring diagrams are on [Pages 10 thru 12](#).

1. The following is the responsibility of the installing electrician.
 - a. All local, state, and national electrical codes are met.
 - b. Electrical service up to the control box with proper branch service protection and an approved means of disconnect.
2. All holes and conduit run into the control box must be through the bottom, [Figure 7](#).
3. The control box is provided with class CC protective fusing for the incoming power.
4. The incoming power terminals in the control box will not accommodate wires larger than 10AWG.

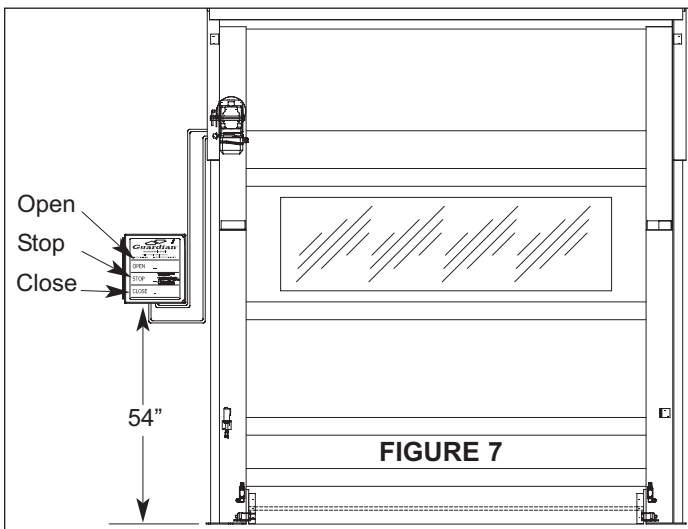


FIGURE 7

CONTROL BOX INSTALL

1. Install control box and remote disconnect (supplied by others), approximately 54" above floor level, [Figure 7](#).
2. Install electrical conduit between motor junction box, control box and remote disconnect. **All connections to control box must be through the bottom.**
3. Terminate wires into control box.
4. The STOP button stops the curtain operation at any time during its travel, [Figure 7](#).
5. The OPEN button opens the curtain and resets the curtain after a fault condition. To open, press the button, you do not have to press and hold the button. When you take your finger off the button, the button springs back to its normal position.
6. The CLOSE button closes the curtain. To close, press the button, [Figure 7](#).

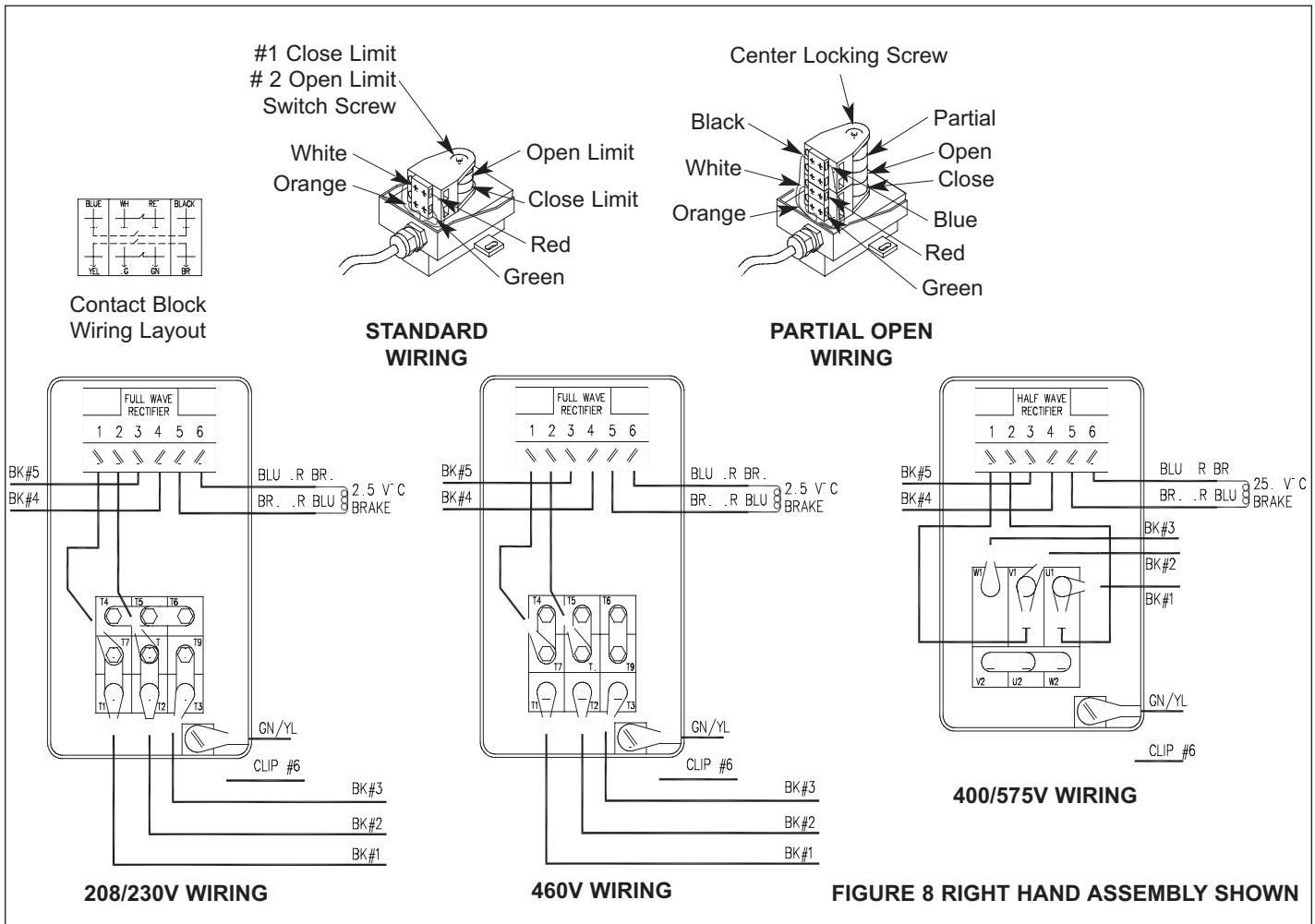
NO CONTROL BOX INSTALL

1. Assemble components necessary to control 3 phase power at either 208, 230, 400, 460 or 575 volts.
2. Follow wiring diagram on [Pages 10 - 12](#) to connect motor and control wiring.
3. Terminals 3 & 4 on the Bridge Rectifier (Located in the motor junction box) should be switched with auxiliary N.O. dry contacts on motor contactors to release the brake when motor is running. The contacts should close when the motor is running to release the brake. Wires 4 & 5 in the supplied motor harness are wired into terminals 3 & 4 on the Bridge Rectifier. See Motor / Brake Electrical Schematic on [Page 14](#) for wiring.

LIMIT SWITCH ADJUSTMENT

1. Manually release brake and raise or lower the curtain to the proper full open position.
2. Loosen the two phillips screws and remove cover.
3. The limit switches are normally closed.
4. Loosen the center locking screw and turn the open limit switch cam locking screw labeled #2 until you hear the contact click, [Figure 8](#). Pay attention to rotation of the cam so when limit is adjusted, it will be on the proper side of the large cam.
 - a. For a Right Hand Drive door, turn the #2 open limit switch screw counter-clockwise to raise the door and clockwise to lower the door.
 - b. For a Left Hand Drive Roll door, turn the #2 open limit switch screw counter-clockwise to raise the door and clockwise to lower the door.
5. To adjust the closed limit switch, manually lower the door to the full closed position using the brake release handle. Turn the cam locking screw labeled #1 until you hear the contact click, [Figure 8](#).
 - a. For a Right Hand Drive door, turn the #1 close limit switch screw counter-clockwise to raise the door and clockwise to lower the door.
 - b. For a Left Hand Drive door, turn the #1 close limit switch screw clockwise to raise the door and counter-clockwise to lower the door.

LIMIT SWITCH ADJUSTMENT



6. Fine tuning of the limits may be necessary. This will be determined by running the door up and down.
7. For any reason if the limit switch plate adjustment bolts need to be loosened or replaced, they should be Grade 8 bolts and torqued to 19ft/lbs.

Continue to rotate the bracket until the LEDs turn off. Rotate the bracket back half the distance and tighten the mounting bolts. Yellow LED indicates unit has power.

REVERSING PHOTOEYE

A photoeye sensor device is a beam of infrared light "emitted" (sent) across the curtain opening to the reflector. The beam is reflected back by the reflector to the "receiver" portion of the photoeye assembly. If the light beam is "blocked" the photoeye contact is actuated sending an open command until the item blocking the beam is removed. The action is to prevent the curtain from being lowered on someone or some item.

1. Locate the photoeye components (receiver, reflector, hardware and mounting brackets).
2. Attach the photoeye brackets to the front track at the pre-drilled holes, **Figure 9**.
3. Route and connect the wires to the terminal strip.
4. Locate the Light/Dark Operate Switch on the back end of the receiver unit. Make sure that the switch is set to the Light Operate position.
5. To set the vertical alignment loosen the mounting bracket attachment bolts slightly and rotate the mounting bracket until the RED and GREEN LEDs turn on, **Figure 9**.

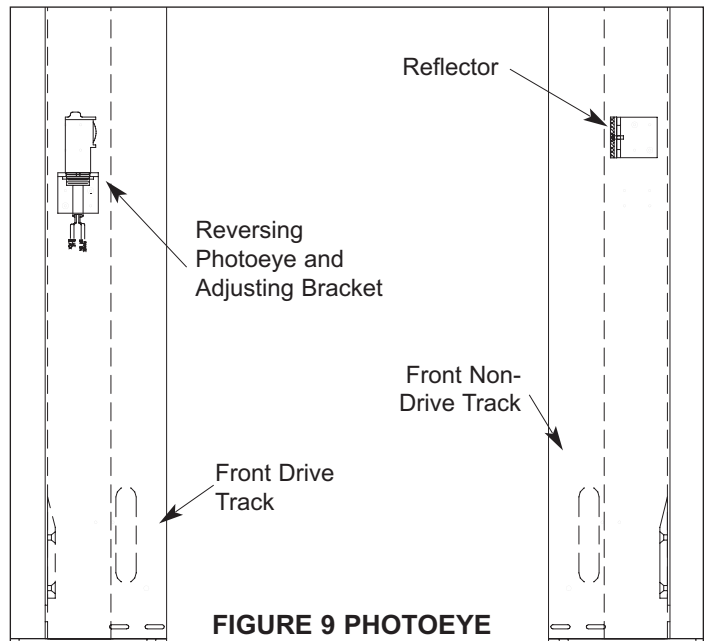


FIGURE 9 PHOTOEYE

PHOTOEYE/INTERLOCK INSTALLATION

- To set the horizontal alignment loosen the lock ring and sweep photoeye left or right until the RED and GREEN LEDs turn on. Continue to rotate the photoeye assembly until the LEDs turn off. Rotate the photoeye back half the distance and tighten the lock ring.

- Make sure interlock switch in curtain guide is aligned with the barrier bar so that the interlocked machine or equipment will not operate unless curtain is closed.

IMPORTANT!!!

In the next step be prepared to press the stop button, in case the motor winding is phased incorrectly and causes the roller to turn the wrong way.

POWER UP/START UP

- Turn on power to the control box.
- Position the barrier curtain in the center of its travel.
- Press the OPEN button, the roller should turn so that the curtain would be raised.
- If roller turns the wrong way, immediately stop the door. To reverse the phase, disconnect power, lock and tag out. Reverse leads T1 and T2 in the control box. Reconnect power and check operation.
- Press the CLOSE button, the roller should turn so that if the curtain would be lowered.

OPERATING CONDITIONS

- Operate the curtain under normal conditions. Observe the curtain opening to make sure that it opens fully and does not open too far. Observe the closing action to make sure that the curtain operates smoothly, and fully closes without excessive curtain ripple near the bottom.
- While the curtain is closing, block the reversing photoeye. The unit should open immediately.

NON-CONTACT INTERLOCK

NOTE: The Non-Contact interlock transmits a coded signal from the controller through the switch. The actuator modifies the received signal and resends it to the controller via the switch. The switch is located on a sliding bracket in the bottom of the curtain guide. The actuator is installed on the curtain bottom bar.

- Secure controller on din rail inside enclosure.
- Wire switch and controller as shown on [Page 12](#). Secure switch wiring as required.
- Adjust the switch to minimize the distance to the actuator when the curtain is closed, [Figures 6 & 10](#).
- The LED indicator on the switch is green when actuator is within range and indicates the safety circuit is closed and the unit is closed. A red LED indicates the actuator is out of range, the safety circuit is open, and the unit is open. A flashing green/red LED indicates the actuator is in range and unit is closed, but the safety circuit is open.

LEVER ARM INTERLOCK

- The Lever Arm Interlock is factory installed and not adjustable, the limit switch must be adjusted to stop the curtain bottom barrier bar in the proper position, [Figure 10](#).

SUPPORT POST COVER INSTALLATION

- After unit is functional, use the (6) screws per side provided to fasten covers to the support post sides, a 5/16" Nut driver is needed, [Figure 11](#).

OPTIONAL SHROUD INSTALLATION

- After unit is functional, use the (12) 3/8" bolts and nuts provided to fasten shroud to the bearing plates, [Figure 12](#).

! WARNING!!!

Make sure switch is wired directly into the safety control circuit, so that the machine will shut down if the switch is defective or the curtain is not down.

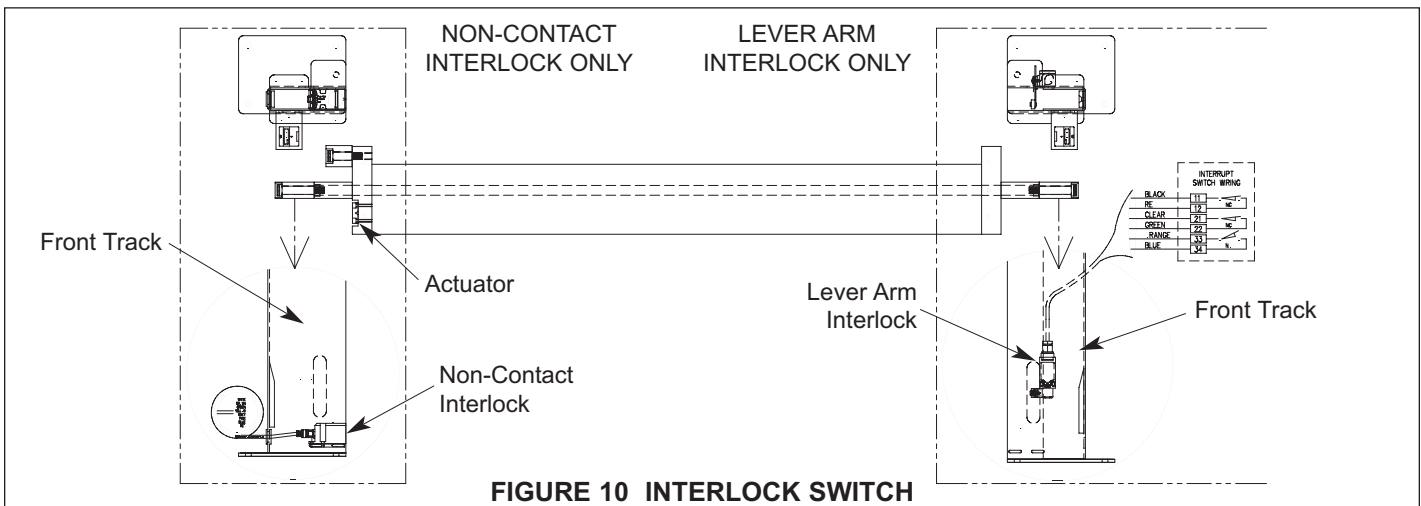


FIGURE 10 INTERLOCK SWITCH

MAINTENANCE TROUBLESHOOTING CHECKLIST

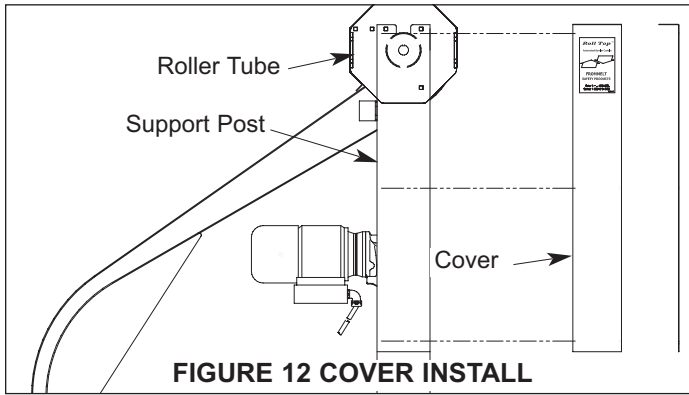


FIGURE 12 COVER INSTALL

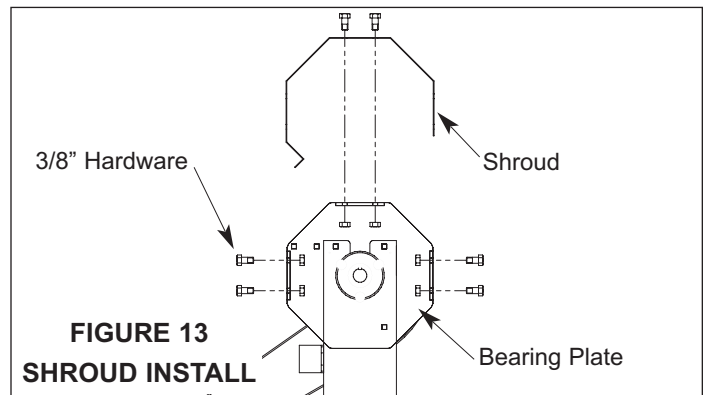


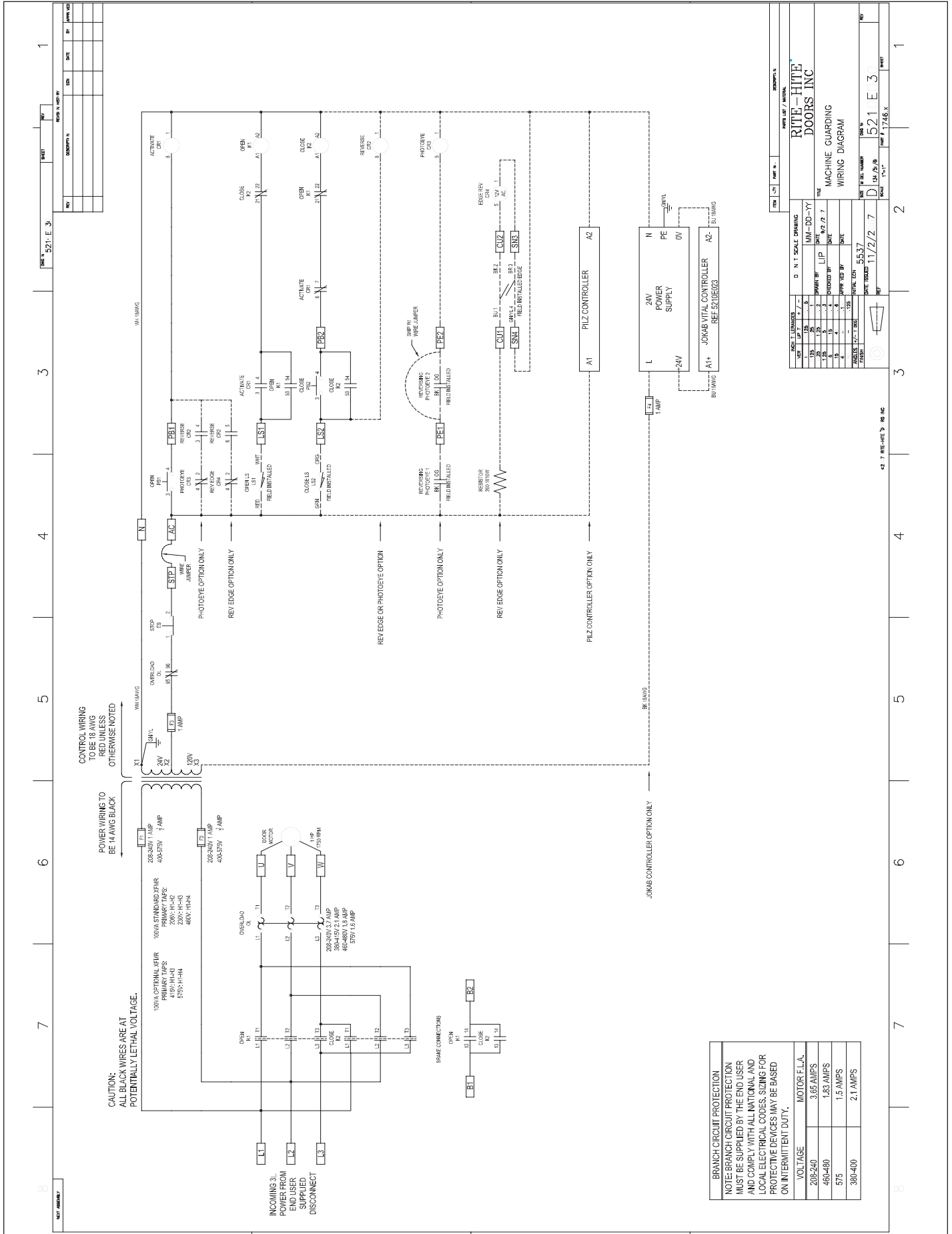
FIGURE 13 SHROUD INSTALL

**FROMMELT® SAFETY PRODUCTS PLANNED MAINTENANCE
Model 1325 ROLL-TOP™**

CUSTOMER:		DATE:								Inspect and Perform the Following (See Manual)
RHC#	SERIAL#	Recommended P.M. Intervals (Time Shown In Months)								
Periodic Cycle Check: Planned Maintenance		1	4	8	12	18	24	30	36	
Activation Devices										• Check for proper operation.
Chain		•	•		•			•		• The break-in period is 30 days or 50,000 cycles. Tension must be maintained.
Curtain										• Operate to verify proper operation. Clean with warm non abrasive soapy water. Check for damage or wear and repair any tears.
Electrical Connections			•		•			•		• Perform visual inspection and tighten.
Frame and Hardware			•		•					• Perform visual inspection and tighten. Blow dust and dirt from the frame assembly.
Interlocks (optional)			•		•			•		• Verify switch shuts off the proper machine components when activated.
Labels and Instructions					•					• Replace if missing.
Limit Switch			•	•	•			•		• Make sure barrier curtain stops at the proper open and closed positions. Inspect chain and sprockets for wear, and lubricate.
Photoeyes and Reflectors			•		•			•		• Clean and check for proper operation. Barrier curtain must reverse when the beam is blocked.

PROBLEM	REMEDY
Control Box (Optional)	The control box contains the necessary motor starters, relays, transformers, etc. to safely control 3 phase power, open, close and stop push buttons. If control box does not power up, check fuses and replace as needed.
Curtain	The curtain provides a safety barrier against sparks, harmful light emissions and physical contact with the machine by the operator. The curtain is manufactured of nylon reinforced material. Barrier bars are sewn in to add rigidity. Vision window is available as an option.
Curtain remains open,	Reversing photoeye alignment incorrect. (Red LED on photoeye off.) does not close. Realign photoeye. Photoeye not set to "Light Operate." Open reversing photoeye cover to check switch position. Fuse blown, Replace fuse after checking for shorts. Check all connectors for proper connection. Stop button pushed when door was in open position. Press close button.
Curtain does not stop at limits.	Limit switch positioning incorrect. Ensure that the limit switches are properly positioned. Failed limit switch, check for continuity, replace if necessary.
Curtain travel reversed.	Motor phases reversed. Remove power, reverse wires in terminals T1 & T2.
Curtain will not go up or down.	Loss of power. Verify that electrical power is getting to the control box. Bad fuse, check fuses. Make sure nothing is blocking the path of any photoeye light beam.
Curtain tracks off one side.	Curtain misaligned. Curtain may need to be adjusted on the hook and loop fastener Both vertical support to columns must be plumb and level. The distance between columns must be the same when measured at the top and bottom. Shim or remount as required.
Interlock Devices (Optional)	The interlock keeps the machine from functioning unless the curtain is in position. The interlock mounts in the bottom of the support post and is activated by the curtain when it comes into the closed position.
Limit Assembly	If limits come out of adjustment, make sure the center locking screw is tightened down. For rewiring of the limit switch, see Page 7 .
Motor Assembly	The motor assembly includes the motor, gearbox, brake and limit switch. The motor assembly unrolls and lowers the curtain before the machine cycle begins and rolls the curtain back up when the machine cycle is complete. For rewiring of the motor, Page 7 . If motor doesn't run, look for loose connections, check all connections in terminals T1, T2, T3, and the connectors. Brake not releasing. Check brake connections.

CONTROL BOX WIRING DIAGRAM



REV	DESCRIPTION	DATE	BY
1	521-E-3		

DATE		SCALE		DRAWING NO.		REV.	
1	11/2/2	1:1		521-E-3		1	

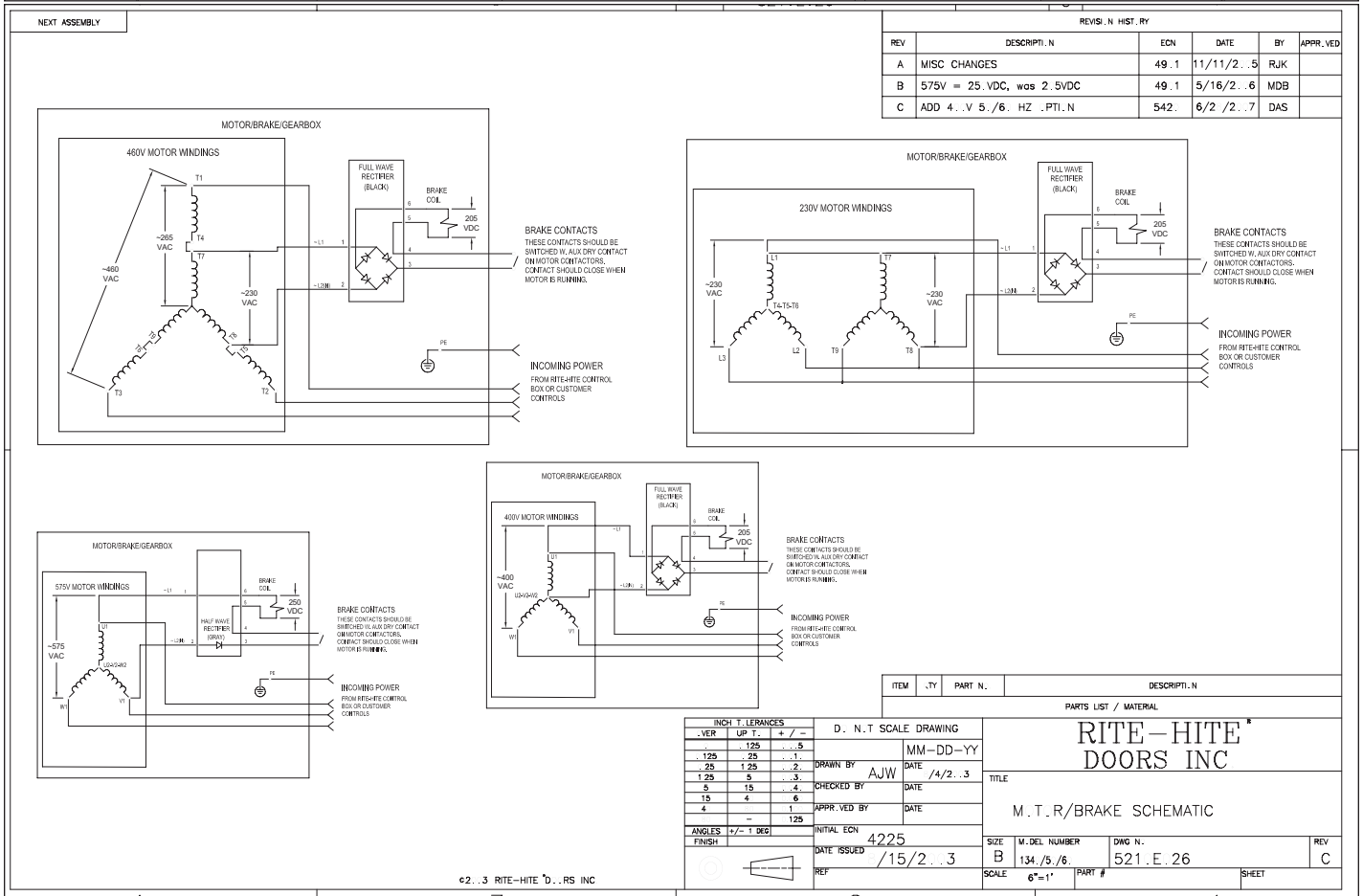
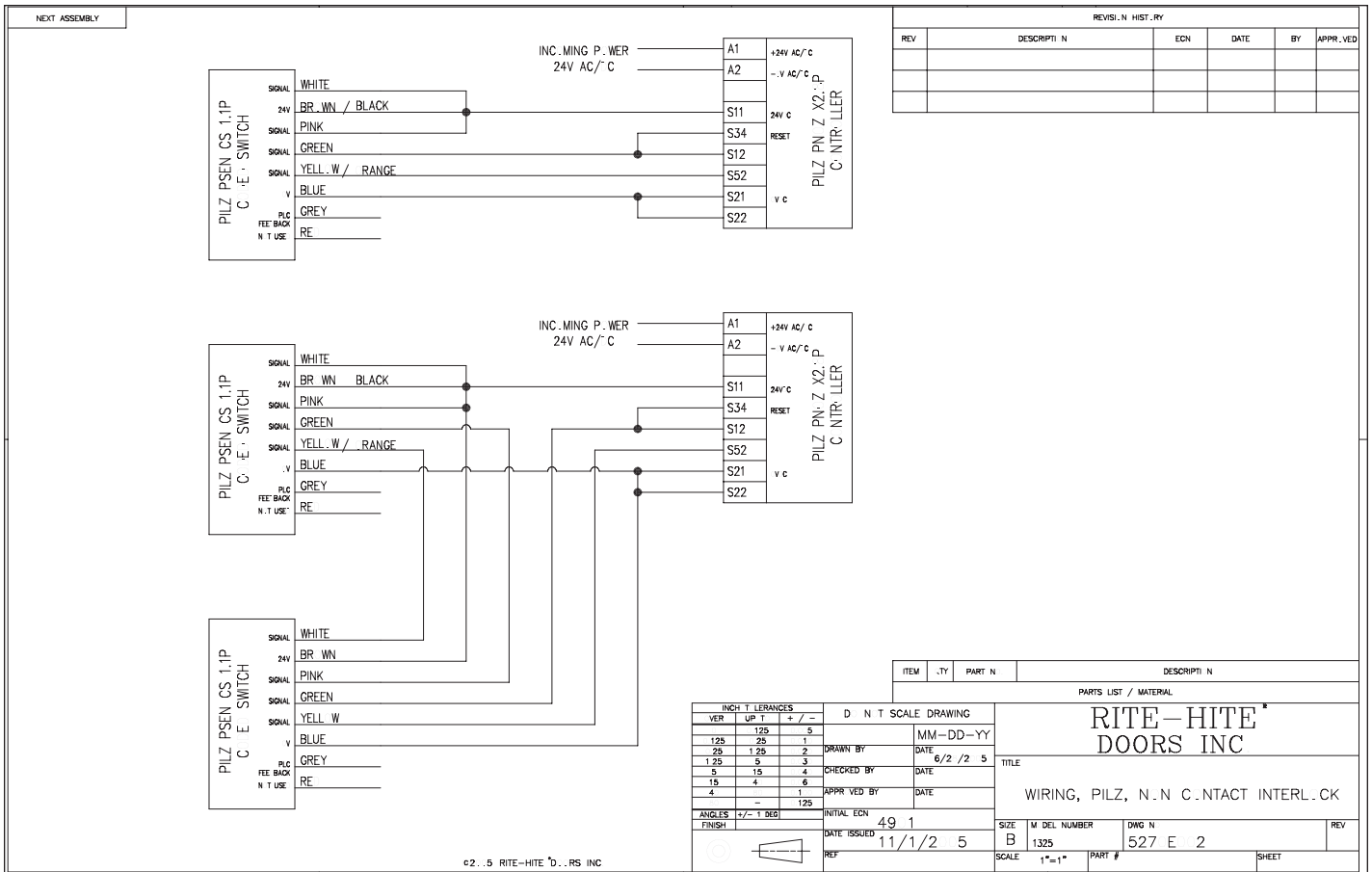
NO.	DESCRIPTION	DATE	BY
1	521-E-3		

DATE	SCALE	DRAWING NO.	REV.
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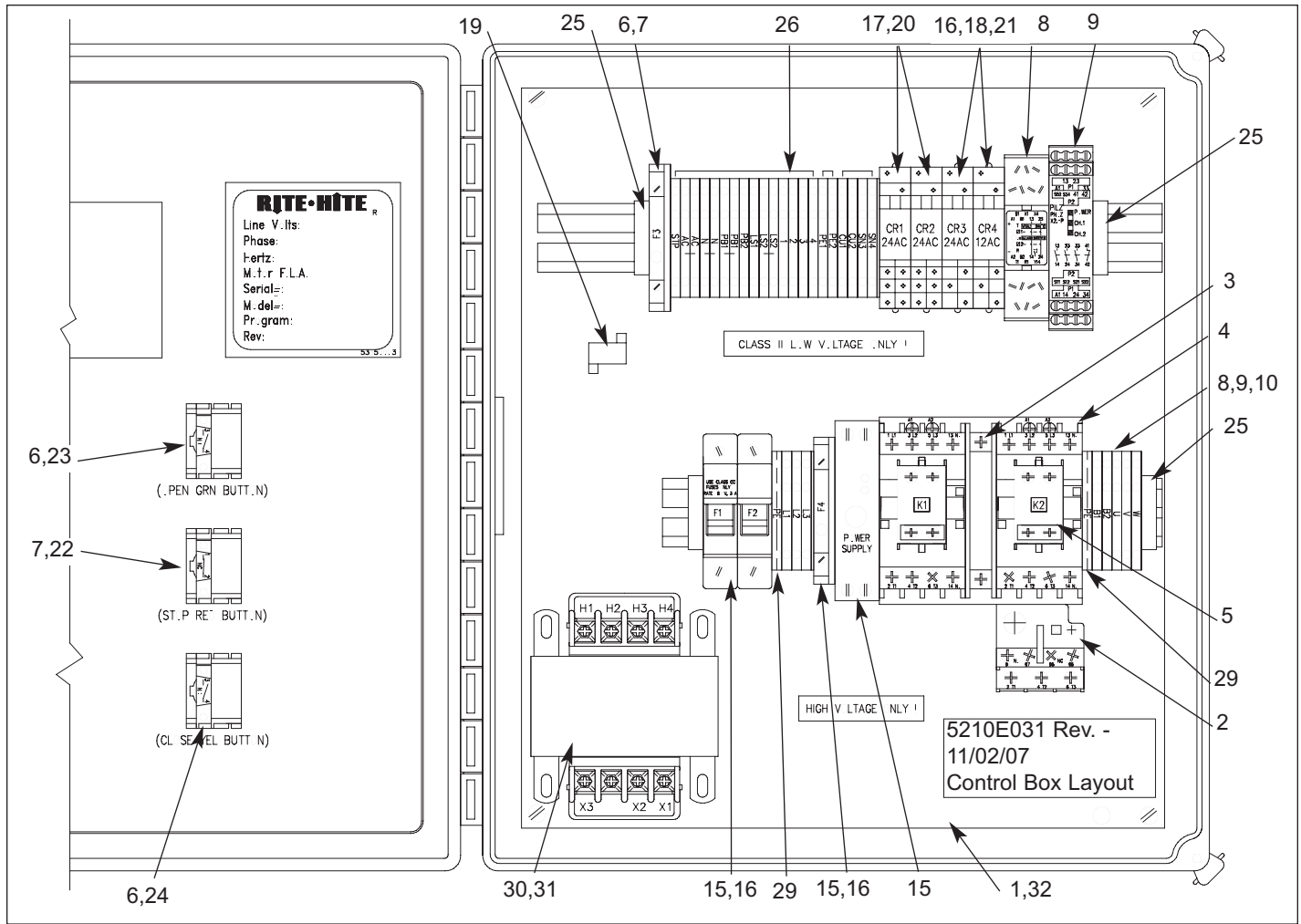
DATE	SCALE	DRAWING NO.	REV.
11/2/2	1:1	521-E-3	1

BRANCH CIRCUIT PROTECTION	
VOLTAGE	MOTOR F.L.A.
208-240	3.65 AMPS
460-480	1.83 AMPS
575	1.5 AMPS
380-400	2.1 AMPS

NON-CONTACT INTERLOCK & MOTOR/BRAKE WIRING

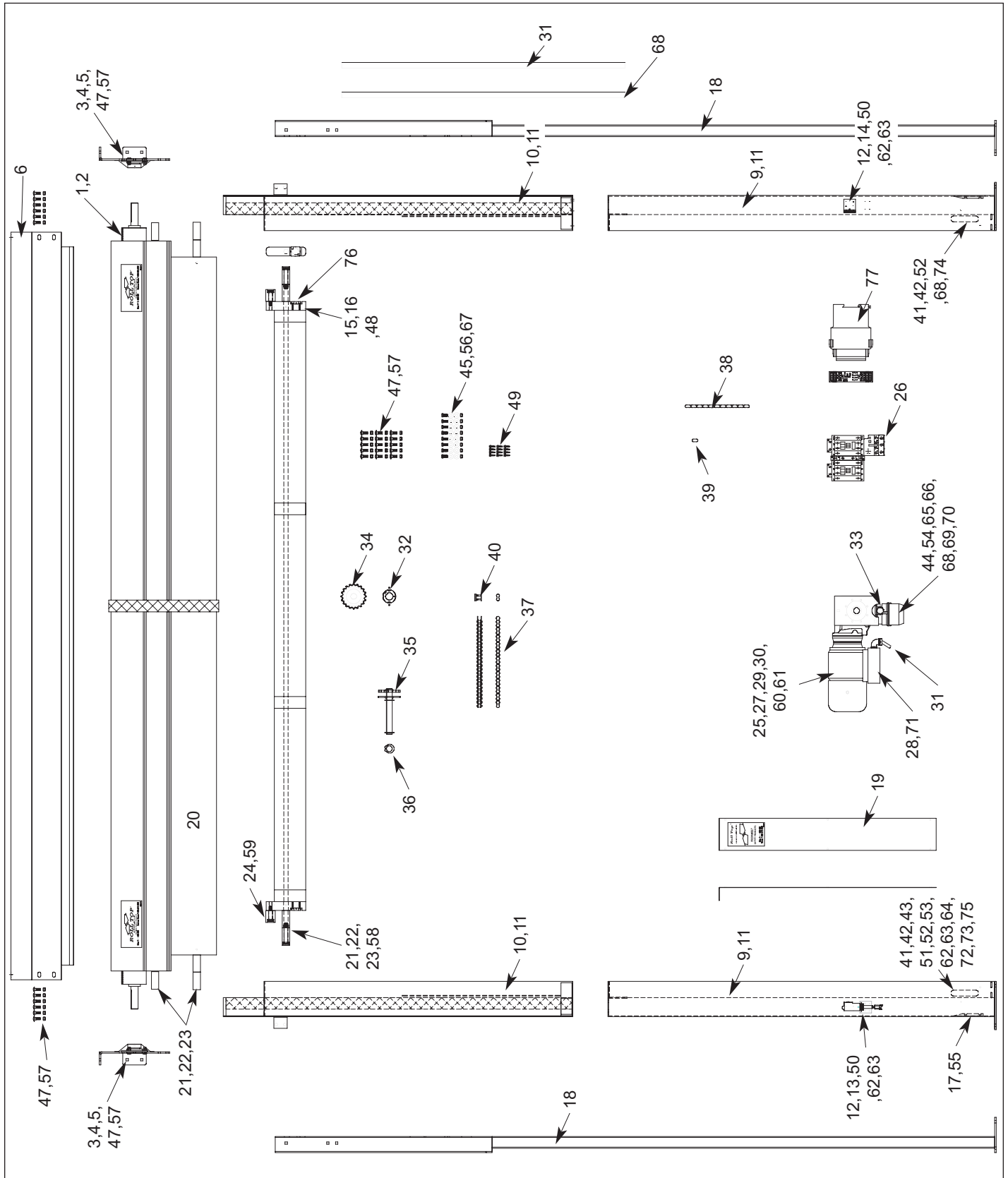


CONTACTOR CONTROL BOX



ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Control Box Assembly (Guardian or Dual Guardian)	.1746....
2	1	Circuit Breaker, Overload, 1.6-5A	.16660008
3	1	Contactor, Interlock, MCS	.17000010
4	2	Contactor 24VAC, 16amp, 50/60Hz, 1NO	.17000020
5	2	Contactor Auxiliary, 2NO	.17000021
6	2	Contact, 3 Across N.O.	.17200012
7	1	Contact, 3 Across N.C.	.17200013
8	1	Controller, Vital 1, Jokab (Model 1340, 1345 & 1360 only)	.17500011
9	1	Controller, Pnoz, Pilz (Model 1325 & 1345 only)	.17500012
10	2	Fuse, .5AMP, 60)V, Time Delay(>= 380V)	.51000001
11	1/2	Fuse 1AMP, 250V, Time Delay (Standard & Model 1340, 1345 & 1360 Jokab option)	.51000002
12	1	Fuse Holder, 2 Pole, 600V, 30A	.51000003
13	1/2	Fuse Holder, 1 Pole,300V,12A (Standard & Model 1340, 1345 & 1360 Jokab option)	.51000004
14	2	Fuse, 1AMP, 600V, CC, Time Delay (< =240V)	.51000023
15	1	Power Supply, Din, 24VDC,18W (Model 1340, 1345 & 1360 only Jokab Option)	.65700006
16	1	Relay SPDT 12VAC 10A (Model 1390 Rev Edge only)	.66450002
17	1/2	Relay DPDT 24VAC 5A (Stand, Rev Edge or Photoeye option)	.66450003
18	1	Relay SPDT 24VAC 10A (photoeye option)	.66450004
19	1	Resistor, 200 Ohm, 10 Watt (Model 1390 Rev Edge only)	.66550017
20	2/3	Relay Socket 2 Pole (Standard, Rev Edge or Photoeye option)	.70350001
21	1	Relay Socket 1 Pole (Photoeye option or Model 1390 Rev Edge option)	.70350002
22	1	Switch, Push button, Red 22.5MM	.72700006
23	1	Switch, Push button, Green 22.5MM	.72700085
24	1	Switch, Push button, Yellow 22.5MM	.72700086
25	4	Terminal, End, Stop, Screwless	.73100024
26	23/25/29	Terminal, PH, Cage, 20A, 3 Hole (2-Photoeye option or 4-Model 1390 Rev Edge)	.73100072
27	3	Terminal, PH, Cage, 20A, 3 Hole, Bar	.73100073
28	4	Terminal, PH, Cage, 20A, Jump, 2P	.73100074
29	2	Terminal, PH, Cage, 20A, 3 Hole, Gnd	.73100076
30	1	Transformer 100VA 208/230/460V 24/115V	.73550029
31	1	Transformer 100VA 380/415/575V 24/115V	.73550030
32	1	Control Box Assembly (Power-Shield)	.1736....

ROLL-TOP SERVICE PARTS



ROLL-TOP SERVICE PARTS LIST

ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Roller Tube Weldment (includes 2" PSA hook fastener)	6748....
2	a/r	Roller Tube, Hook Fastener, 2" PSA	74000020
3	2	Bearing, Fafnir	12500023
4	4	Bearing Flange Mount	45750001
5	2	Bearing Plate Kit	53700517
6	2	Plate, Bearing	65000528
7	1	Shroud	6941....
8	-		
9	1/1	Guide, Assembly, Front, Lower, Right or Left	5142....
10	2	Guide, Assembly, Front, Upper, Right or Left	5144....
11	a/r	Guide, Front, Loop Fastener, 2", FR	74000071
12	2	Photoeye, Bracket	14500024
13	1	Photoeye, Retro-Reflective	63900002
14	1	Photoeye, Reflector	66400001
15	1	Retainer, Bottom Loop, Standard	66800012
16	1	Retainer, Bottom Loop, Non-Contact Interlock	66800013
17	2	Shim, Front Track	69000013
18	1/1	Support Post, Rear, Right or Left	7253....
19	2	Support Post, Rear, Cover	17900126
20	1	Curtain Assembly	2872....
21	5	Curtain, Barrier Bar, Assembly	6452....
22	2	Spacer, Bottom Bar, Roller	70450112
23	10	Roller, Barrier Bar	67200058
24	2	Roller, Barrier Bar, Non-Contact	67200059
25	1	Motor, Assembly	5533....
26	1	Motor, Starter Set	5534....
27	1	Motor/Brake/Gearbox, 1HP, 230/460V	55250101
28	1	Rectifier, Bridge, 2A, 110-230V (for 230/460V doors)	66270009
29	1	Motor/Brake/Gearbox, 1HP, 575V	55250103
30	1	Motor Plate	65000529
31	a/r	Motor, Cable	15650154
32	1	Bushing, Taper Lock, 1" x 1 1/4" Bore	15550052
33	1	Sprocket, Limit Switch, Driven	70800012
34	1	Sprocket, Taper Lock, 20 Tooth, #50	70800034
35	1	Shaft, Weldment, Drive	68950138
36	2	Ring, Retaining, Ext, 1.0" x .042	67020016
37	5	Chain, Drive, #50	16600017
38	1,3'	Chain, Drive, #35	16600019
39	1	Chain, Connector Link, #35	54400008
40	1	Chain, Connector Link, #50	54400011
41	2	Connector, Straight, L/T, 1/2 (interlock)	16960002
42	2	Grommet, Rubber (interlock)	51280002
43	4	Nut, Hex, Nylon, Lock, #10-24, znc (Non-Contact)	55600004
44	4	Nut, Hex, Nylon, Lock, 1/4-20, znc (shim, limit switch)	55610001
45	8	Nut, Hex, Nylon, Lock, 5/16-18, znc (splice)	55620010
46	-		
47	20	Nut, Hex, Nylon, Lock, 3/8-16, znc (bearing, shroud, support post)	55630005
48	a/r	Rivet, 2pc, 1 7/8, SSLM-8SP-30, Blk (curtain)	66860007
49	12	Screw, HWH, Self Drill/Tap, #12-14 x 3/4" (support post covers)	67850004
50	4	Screw, RHPS, Phillips, #10-24 x 1/2", znc (photoeye, reflector)	67850008
51	2	Screw, RHMS, Phillips, #8-32 x 1/2", znc (Non-Contact Interlock)	67850017
52	2/2	Screw, RHMS, Phillips, #10-24 x 1, znc (Non-Contact or Lever Arm Interlock)	67850024
53	8	Screw, RHMS, Phillips, #10-24 x 3/4", znc (Non-Contact)	67850030
54	2	Bolt, Carriage, 1/4-20 x 3/4, GR 5, znc (motor)	67860023
55	4	Screw, FHMS, Allen, 1/4-20 x 3/4", (shim)	67860042
56	8	Screw, HHMS, 5/16-18 x 3/4, GR 5, znc (splice)	67870006
57	6/12/15	Bolt, Carriage, 3/8-16 x 1", GR 5, znc (bearing, shroud, support post)	67880092
58	2	Bolt, Shoulder, 5/8 x 2 1/2", (non-contact roller)	67910008
59	a/r	Bolt, Shoulder, 5/8 x 1 1/2", Self Locking (barrier bar roller)	67910030
60	4	Screw, HHMS, M6-1 x 16mm, GR 8 (motor)	67930006
61	8	Screw, FSHCS, Allen, M6-1x20mm, znc (motor)	67850145
62	4/8	Washer, Lock, Split #10, znc (2 reflector, 2 photoeye, 2 Non-Contact Interlock)	74100001
63	4/8	Washer, Flat, 13/64 x 1/2 x .036, znc (2 reflector, 2 photoeye, 2 Non-Contact Int)	74100002
64	4/6	Washer, Lock, Split #8, znc (shim)	74100005
65	4	Washer, Flat, 1/4 x 3/4 x 1/16, znc (motor)	74110001
66	4	Washer, Lock, Split, 1/4, znc (motor)	74110004
67	16	Washer, Flat, 5/16, znc (splice)	74120003
68	a/r	Switch, Limit, Cable (Limit Switch Cable and Lever Arm Interlock)	15650047
69	1	Switch, Limit, Plate	65000527
70	1	Switch, Limit, 2P, Standard	72700186
71	1	Rectifier, Bridge, 1/2 Wave, 575V	66270012
72	1/2	Switch, Interlock, Non-Contact, Cable	15650218
73	1/2	Switch, Interlock, Non-Contact, Plate	65000530
74	1/1	Switch, Interlock, Long Arm, 2NC, 1NO	72700183
75	1/2	Switch, Interlock, PILZ, Non Contact, PSEN	72700184
76	1/2	Actuator, PSEN, PILZ	10200007
77	1	Controller, PNOZ, PILZ	17500012

ARCHITECTURAL DRAWING ROLL-TOP

DWG N° 527 A:01

SHEET A

3

4

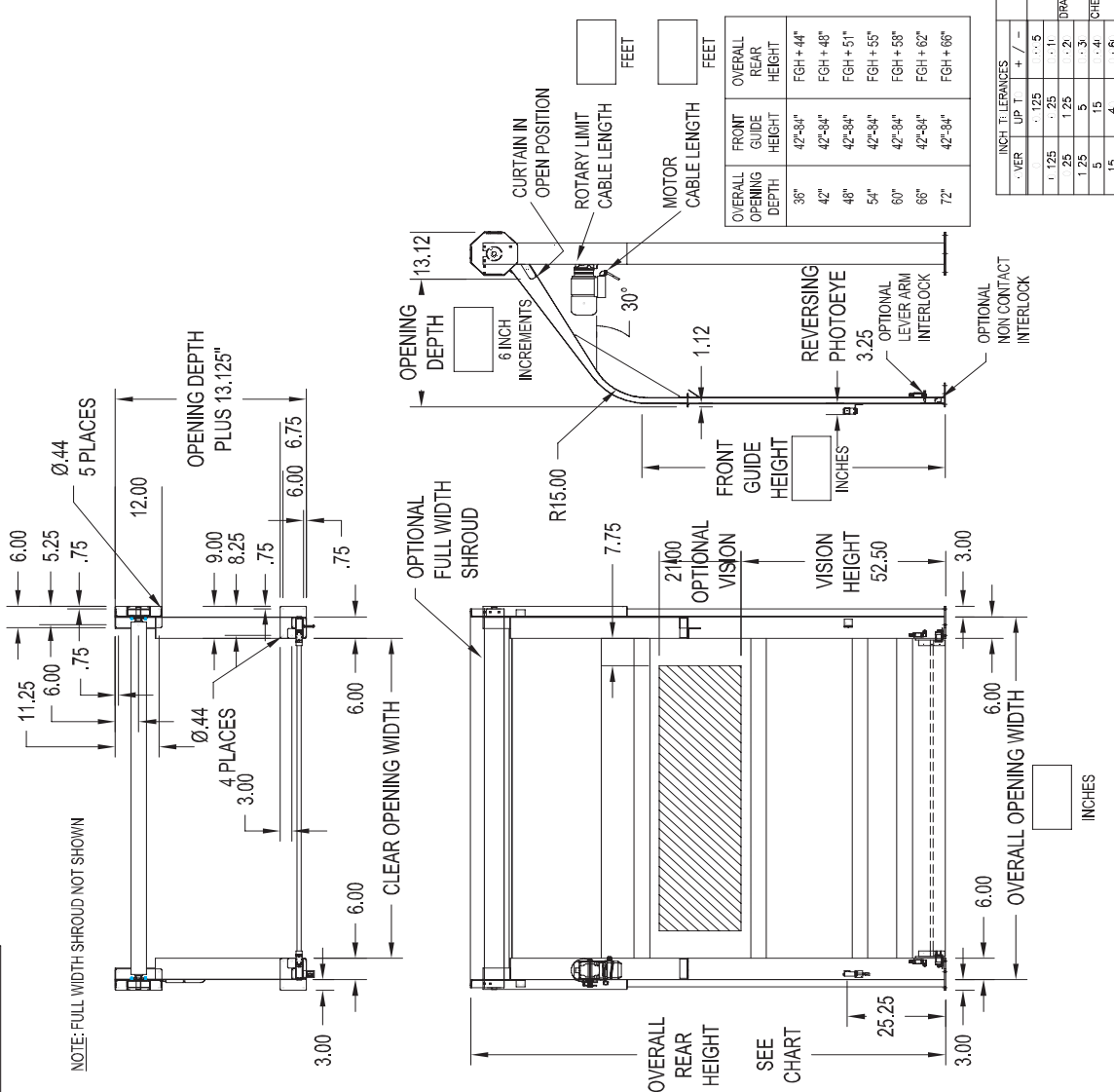
REV	DESCRIPTION	ECN	DATE	BY	APPR. VED
A	CHANGE C. NTR. L. B. X. SIZE	5537	11/21/2007	RJP	

REV	DESCRIPTION	ECN	DATE	BY	APPR. VED
A	CHANGE C. NTR. L. B. X. SIZE	5537	11/21/2007	RJP	

ITEM	QTY	PART N°	DESCRIPTION
			DESCRIPTION: N

STANDARD SPECIFICATIONS:

- ROLL TOP SIZE:** WIDTH: 4'-0" THRU 12'-6"
FRONT GUIDE HEIGHT: 3'-6" THRU 7'0"
- CURTAIN MATERIAL:** STD. 500z. ARMOR PLEAT, BLACK
- ROLLER TUBE:** 4" DIA. STEEL TUBE
- CURTAIN GUIDES:** 12 GA. STEEL
- BARRIER BARS:** 3/4"OD X 1/8"W BOTTOM BAR
1"OD X 1/8"W BARRIER BARS
- MOTOR:** 3 PHASE, 1HP MOTOR WITH BRAKE
- GEARBOX:** 13.49:1 BEVEL
- BRAKE:** 15 LB SELF ADJUSTING ELECTROMECHANICAL
- AVERAGE SPEED:** 307/SEC
- WIRING:** VARIABLE LENGTH MOTOR AND LIMIT CABLES
- OPTIONAL:**
- CONTROL BOX:** SIZE 16" x 14" x 8.5"
INCLUDES OPEN, CLOSE AND STOP BUTTONS
REVERSING CONTACTS 24VDC, 120 VAC, OR 24VAC
(NOT APPLICABLE IF CONTROL BOX IS ORDERED)
- MOTOR STARTER:** 80 MIL PVC, AMBER, CLEAR, OR SHADE 8
- CURTAIN VISION:** LEVER ARM SAFETY SWITCH WITH 13 FOOT CABLE
2 N.C.+AUX N.O.
- CAT 2 INTERLOCK:** NON CONTACT SAFETY SWITCH W/32 FOOT CABLE
3 SAFETY N.O. & 1 AUX. N.C.
- CAT 4 INTERLOCK:** SAFETY RELAY PROVIDES REDUNDANT
CIRCUIT WITH SELF MONITORING
- PARTIAL OPEN:** 4 POSITION LIMIT SWITCH
- SHROUD:** SELECTOR SWITCH TOGGLES FULL/PARTIAL OPEN
FULL WIDTH



SIZE	M DEL NUMBER	DWG N°	REV
B		527 A:01	A

SCALE	PART #	SHEET
3/4" = 1'		1

DATE ISSUED	INITIAL ECN	DATE
49	1	9/29/2005

DATE	CHECKED BY	DATE

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