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COOKSON

1024 CYCLE-MASTER® DOORS

INSTALLATION AND

MAINTENANCE MANUAL

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Support Video Series

3-3973-01(5) ECN 1313 BY RG 6/10/15

THIS REVISION SUPERSEDES
ALL PREVIOUS REVISIONS

1024 CYCLE-MASTER DOORS INSTALLATION AND MAINTENANCE MANUAL - TABLE OF CONTENTS

FREIGHT DAMAGE INSTRUCTIONS

IMPORTANT

IMMEDIATELY UPON DELIVERY CHECK CONDITION OF MATERIALS FOR VISIBLE CONCEALED FREIGHT DAMAGE INCURRED IN TRANSIT.

UNDER NO CONDITION SHOULD INSTALLATION BE MADE WITHOUT AUTHORIZATION, AS NEITHER THE CARRIER NOR THE MANUFACTURER WILL ASSUME RESPONSIBILITY FOR LABOR COSTS INVOLVED IN REPLACING DAMAGED MATERIAL THAT HAS BEEN INSTALLED.

FOLLOW THE DIRECTIONS BELOW:

CONCEALED DAMAGE:

(A) MUST BE INSPECTED BY CARRIER'S REPRESENTATIVE WITHIN 15 DAYS FROM DATE OF DELIVERY.
(B) CONSIGNEE MUST OBTAIN COPY OF INSPECTION REPORT.
(C) MATERIAL SHOULD NOT BE MOVED FROM POINT OF DELIVERY TO OTHER PREMISES PRIOR TO DISCOVERY AND/OR REPORTING OF DAMAGE.
(D) CONTAINER AND PACKING SHOULD BE RETAINED BY CONSIGNEE UNTIL INSPECTION IS MADE.

VISIBLE DAMAGE:

(A) MUST BE INSPECTED BY CARRIER'S REPRESENTATIVE WITHIN 15 DAYS FROM DATE OF DELIVERY.
(B) CONSIGNEE MUST OBTAIN COPY OF INSPECTION REPORT.
(C) MATERIAL SHOULD NOT BE MOVED FROM POINT OF DELIVERY TO OTHER PREMISES PRIOR TO DISCOVERY AND/OR REPORTING OF DAMAGE.
(D) CONTAINER AND PACKING SHOULD BE RETAINED BY CONSIGNEE UNTIL INSPECTION IS MADE.

NOTE: IF DAMAGE IS CERTAIN, GOODS SHOULD NOT BE UNPACKED UNTIL INSPECTION IS MADE. IF DAMAGE IS UNCERTAIN, PACKAGES MAY BE OPENED BUT PACKING MATERIAL MUST BE SAVED UNTIL INSPECTION IS MADE.

INCOMPLETE DELIVERY:

(A) SHOULD BE NOTED ON DELIVERY RECEIPT.
(B) ACKNOWLEDGE BY DRIVER'S SIGNATURE.
(C) START TRACING IMMEDIATELY.
(D) NOTIFY SHIPPER.

RETURNING DAMAGED MATERIAL:

IF DAMAGED TO THE EXTANT THAT IT IS NECESSARY TO RETURN TO THE MANUFACTURER TO BE REPAIRED, PLEASE DO AS FOLLOWS:
(A) OBTAIN PERMISSION TO DO SO FROM THE DELIVERING CARRIER.
(B) ROUTE THE RETURN SHIPMENT VIA THE IDENTICAL CARRIER(S) INVOLVED IN THE ORIGINAL SHIPMENT.
(C) NOTIFY THE MANUFACTURER WHEN SHIPPED.

PRE-INSTALLATION INSTRUCTIONS

WARNING

ONLY TRAINED DOOR SYSTEMS TECHNICIANS SHOULD INSTALL OR PERFORM MAINTENANCE ON DOORS

WARNING

READ AND FOLLOW THESE INSTRUCTIONS THOROUGHLY - THE MANUFACTURER WILL NOT BE HELD RESPONSIBLE FOR ANY CHARGES INCURRED THROUGH MISSING PARTS, OPERATION, OR DAMAGE - DUE TO IMPROPERLY INSTALLED DOOR ASSEMBLIES

1) IF YOU HAVE RECEIVED MORE THAN ONE DOOR, YOU WILL FIND THAT ALL MAJOR PARTS AND PIECES FOR ANY ONE DOOR ARE MARKED WITH CORRESPONDING NUMBERS; THEREFORE, A COMPLETE DOOR SHOULD BE COMPOSED OF PARTS BEARING THE SAME NUMBERS AND LETTERS.

DO NOT INTERCHANGE PARTS FROM ONE DOOR TO ANOTHER!!!

2) BEFORE INSTALLING THE DOOR SEE THAT ALL COMPONENT MARKINGS AGREE.
3) BEFORE ATTEMPTING INSTALLATION OF THE DOOR AND, SPECIFICALLY, BEFORE LEAVING THE JOBSITE MAKE CERTAIN YOU HAVE READ AND ADHERED TO THE ATTACHED "SAFETY CHECK LIST".

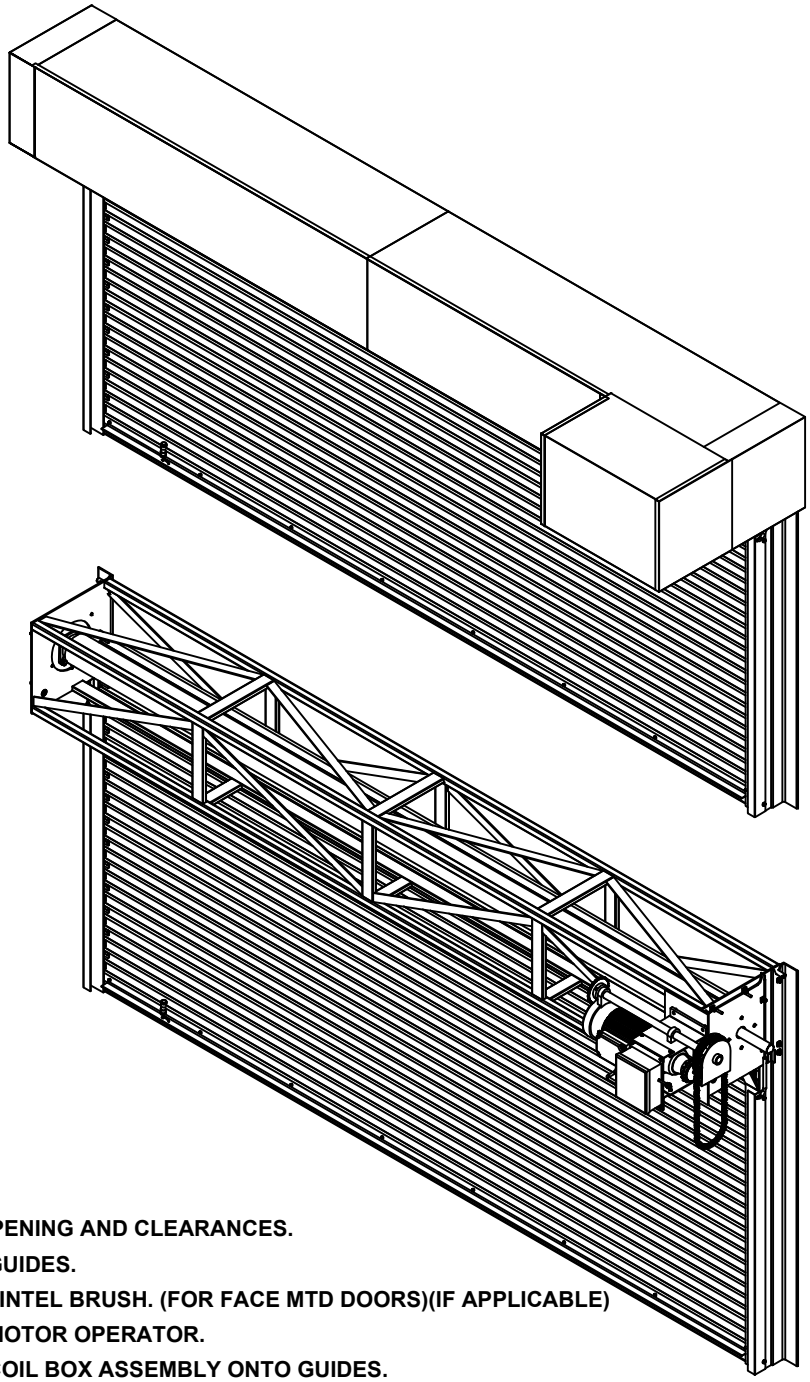
SAFETY CHECK LIST

WARNING

IN ORDER FOR YOU TO ASSURE YOUR CUSTOMER THAT THIS DOOR HAS BEEN INSTALLED PROPERLY AND IN A SAFE MANNER, WE ASK THAT YOU CHECK THE FOLLOWING BEFORE LEAVING THE JOBSITE

1) ASSURE YOURSELF THAT SPROCKETS OR GEARS REQUIRING KEYS HAVE THE CORRECT KEYS INSTALLED AND DRIVE SHAFT SPROCKETS OR GEARS ARE RETAINED BY COTTER PINS.
2) RECHECK THE SETSCREWS (ONE OVER KEY - THE OTHER LOCATED AT 90° FROM KEY) IN EACH SPROCKET OR GEAR FOR TIGHTNESS. MAKE SURE TAPER LOCK SPROCKET FASTENERS ARE TIGHT.
3) CHECK ALL FASTENERS HOLDING GUIDES TO BUILDING STRUCTURES.
4) CHECK ALL FASTENERS USED IN ASSEMBLING DOOR COMPONENTS.
5) INSTRUCT OWNERS OR HIS/HER REPRESENTATIVE IN THE PROPER METHOD OF OPERATING THIS DOOR.

INSTALLATION PROCEDURE SUMMARY

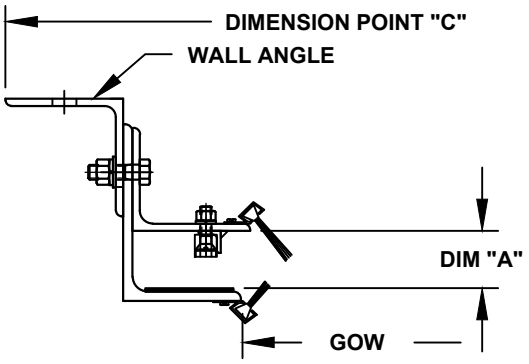


1) VERIFY OPENING AND CLEARANCES.
2) INSTALL GUIDES.
3) INSTALL LINTEL BRUSH. (FOR FACE MTD DOORS)(IF APPLICABLE)
4) INSTALL MOTOR OPERATOR.
5) INSTALL COIL BOX ASSEMBLY ONTO GUIDES.
6) INSTALL ENTRAPEMENT DEVICE AND OTHER ELECTRICAL OPTIONS.
7) SET LIMITS IN OPERATOR.
8) PERFORM COMMISSIONING SEQUENCE.
9) VERIFY PROPER DOOR OPERATION.
10) INSTALL HOODS AND FASCIA. (IF APPLICABLE)
11) INSTALL LINTEL BRUSH FOR BETWEEN JAMB MOUNTED DOORS(IF APPLICABLE)
12) INSTALL MECHANICAL COVERS. (IF APPLICABLE)
13) PERFORM FINAL DOOR OPERATION CHECK WITH ALL OPTIONS FOR PROPER FUNCTION.

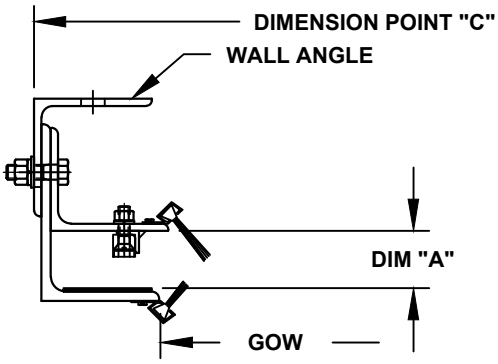
GUIDE INSTALLATION INSTRUCTIONS

DEPENDING ON YOUR SPECIFIC JOB CONDITIONS, YOU HAVE RECEIVED GUIDES THAT APPEAR AS SHOWN BELOW:

TYPE 1 (ZEE)

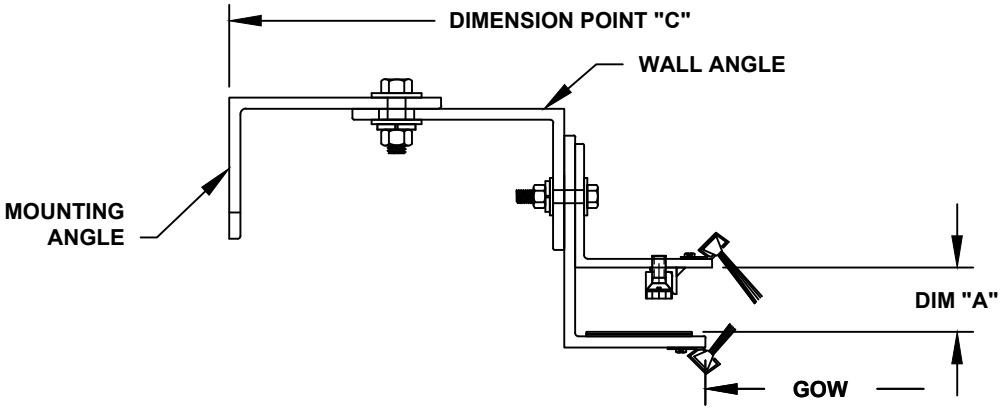


TYPE 2 (E)



A1

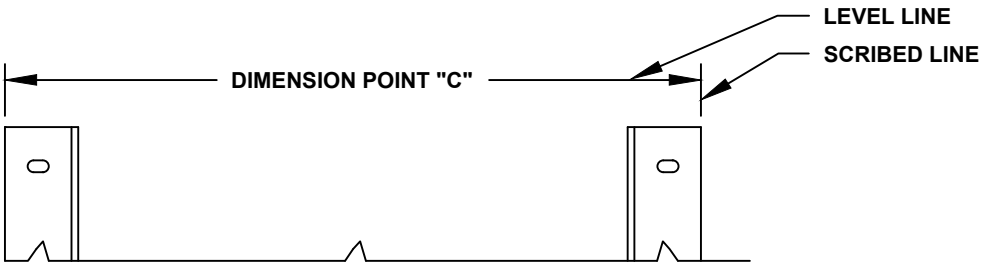
TYPE 14/TYPE 16 (BETWEEN JAMB)



A2

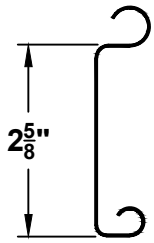
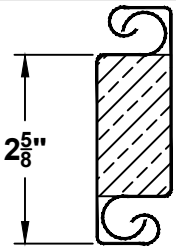
1) LOCATE GUIDE DIMENSION POINT FOR BOTH LEFT AND RIGHT JAMB. MEASUREMENT BETWEEN DIMENSION POINTS MUST EQUAL DIMENSION "C".
2) FOR TYPICAL INSTALLATION FOR TYPE 1 AND 2 (SEE FIG A1) GUIDE ASSEMBLIES, DIMENSION POINT "C" IS CENTERED AROUND JAMB OPENING - (IF SIDE ROOM PERMITS) - IF THERE ARE QUESTIONS CHECK JOB CONSTRUCTION DRAWINGS (IF AVAILABLE).
3) CHECK THE GUIDE OPENING MEASUREMENT. LOCATE A MARK ON THE FLOOR AT THE TIP OF EACH GUIDE AND MEASURE. GUIDE MEASUREMENT MUST EQUAL GUIDE OPENING WIDTH (GOW). THIS IS CRITICAL. IF GUIDE OPENING IS NOT CORRECT, STOP AND REDO STEPS 1 AND 2.
4) SCRIBE A PLUMB LINE ON THE WALL AT DIMENSION POINTS.
5) PLACE THE GUIDES AGAINST THE SCRIBED LINE AND WITH THE TOPS OF GUIDES LEVEL, MARK THE LOCATION OF THE MOUNTING HOLES. NOTE: BETWEEN JAMB GUIDES MAY HAVE TO BE DISASSEMBLED.
6) DRILL MOUNTING HOLES FOR WALL FASTENERS AND MOUNT THE GUIDES. (SEE PAGE 4 FOR FASTENER TYPE) REASSEMBLE GUIDES IF NECESSARY.
7) SLIDE THE GUIDES AS FAR APART AS THE SLOTS ALLOW TO MAKE ROOM FOR COIL BOX ASSY INSTALLATION. LEAVE BOLTS SNUG BUT DO NOT TORQUE FULLY. MAKE SURE WALL ANCHORS ARE SECURE IN WALL.
8) GUIDE GROOVE WIDTH IS PRESET AT THE FACTORY. CHECK TO MAKE SURE DIM "A" MATCHES VALUE IN TABLE A4.
9) INSTALL LINTEL BRUSH IF SUPPLIED USING LINTEL BRUSH INSTALATION INSTRUCTIONS ON FOLLOWING PAGES.

GUIDE INSTALLATION INSTRUCTIONS (CONT)



A3

GUIDE GROOVE DIMENSION TABLE

SLAT NO.	4	45 INSUL
SLAT PROFILE		
DIM "A"	1 7/8"	2"

A4

FASTENER TABLE

TYPE OF CONSTRUCTION TO WHICH FASTENER EMBEDS	TYPE OF FASTENER TO USE	HOLE SIZE (DRILL DIA.)	TAP SIZE (IF REQ'D)	DEPTH OF HOLE
CONCRETE/ MASONRY	Ø1/2" THRU BOLTS	Ø5/8" CARBIDE	———	THRU WALL
	Ø5/8" THRU BOLTS	Ø3/4" CARBIDE	———	THRU WALL
	Ø3/4" THRU BOLTS	Ø7/8" CARBIDE	———	THRU WALL
CONCRETE	Ø1/2" X 5-1/2" WEDGE ANCH.	Ø1/2" CARBIDE	———	4" MIN
	Ø5/8" X 6" WEDGE ANCH.	Ø5/8" CARBIDE	———	5" MIN
	Ø3/4" X 8-1/2" WEDGE ANCH.	Ø3/4" CARBIDE	———	6" MIN
MASONRY OR BRICK	Ø5/8" X 4-1/4" SLEEVE ANCH. (Ø1/2" BOLT)	Ø5/8"	———	4" MIN
	Ø3/4" X 6-1/4" SLEEVE ANCH. (Ø5/8" BOLT)	Ø3/4"	———	5" MIN
STEEL	Ø1/2" BOLT	Ø27/64"	1/2"-13UNC	———
	Ø5/8" BOLT	Ø17/32"	5/8"-11UNC	———
	Ø3/4" BOLT	Ø21/32"	3/4"-10UNC	———

LINTEL BRUSH INSTALLATION INSTRUCTIONS

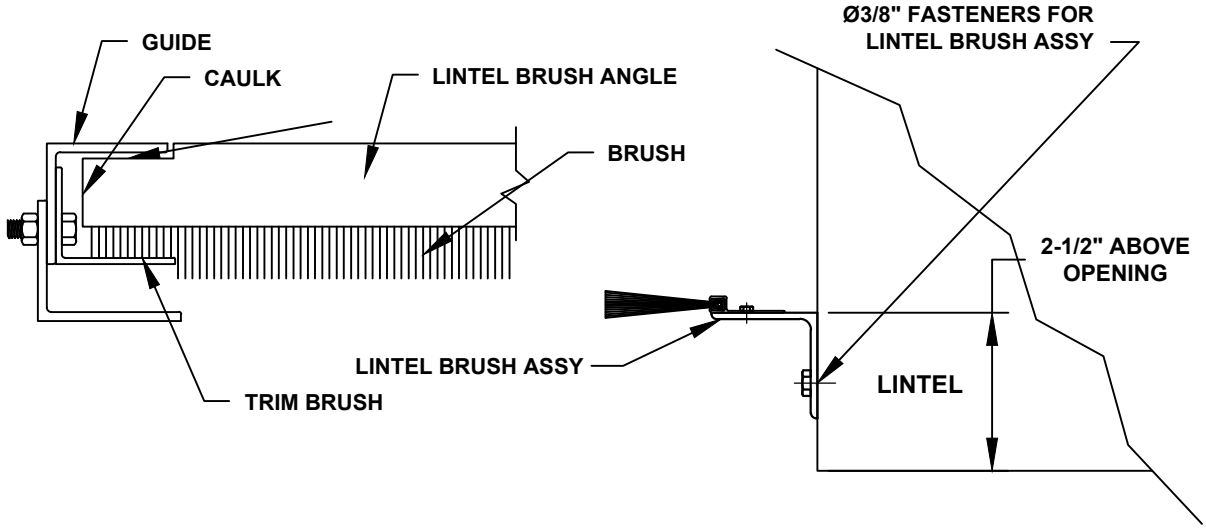
FACE OF WALL MOUNTING:

1) LOCATE FASTENER IN TABLE 1 PER WALL TYPE.
2) LAYOUT AND DRILL WALL FOR LINTEL BRUSH ASSEMBLY MOUNTING FASTENERS.
3) INSTALL WALL FASTENERS AS REQUIRED TO MOUNT ASSEMBLY.

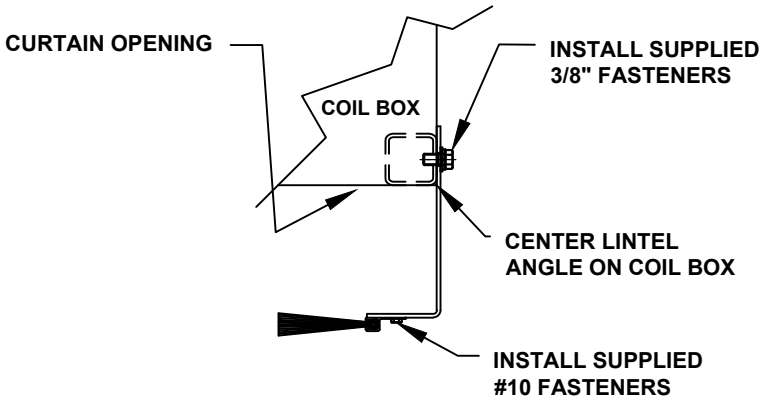
TABLE 1			
MOUNTING MATERIAL	DRILL SIZE	DRILL DEPTH	MOUNTING BOLT
MASONRY/CONCRETE	3/8" CARBIDE	2"	Ø3/8" WEDGE ANCHOR
WOOD	Ø3/16"	1"	Ø3/8" X 2" LAG SCREW
STEEL	Ø5/16" (TAP 3/8-16)	1"	Ø3/8" X 1" HHMB

NOTE: PERFORM STEPS 4 AND 5 AFTER COIL BOX IS INSTALLED AND FASTENED TO GUIDES.

4) CAULK ENDS OF LINTEL BRUSH ANGLE WITH CLEAR SEALANT.
5) TRIM BRUSH AT GUIDE ANGLE WITH SCISSORS SO BRUSH JUST CONTACTS GUIDES.



BETWEEN JAMB MOUNTING: TO BE DONE AFTER HOODS ARE INSTALLED



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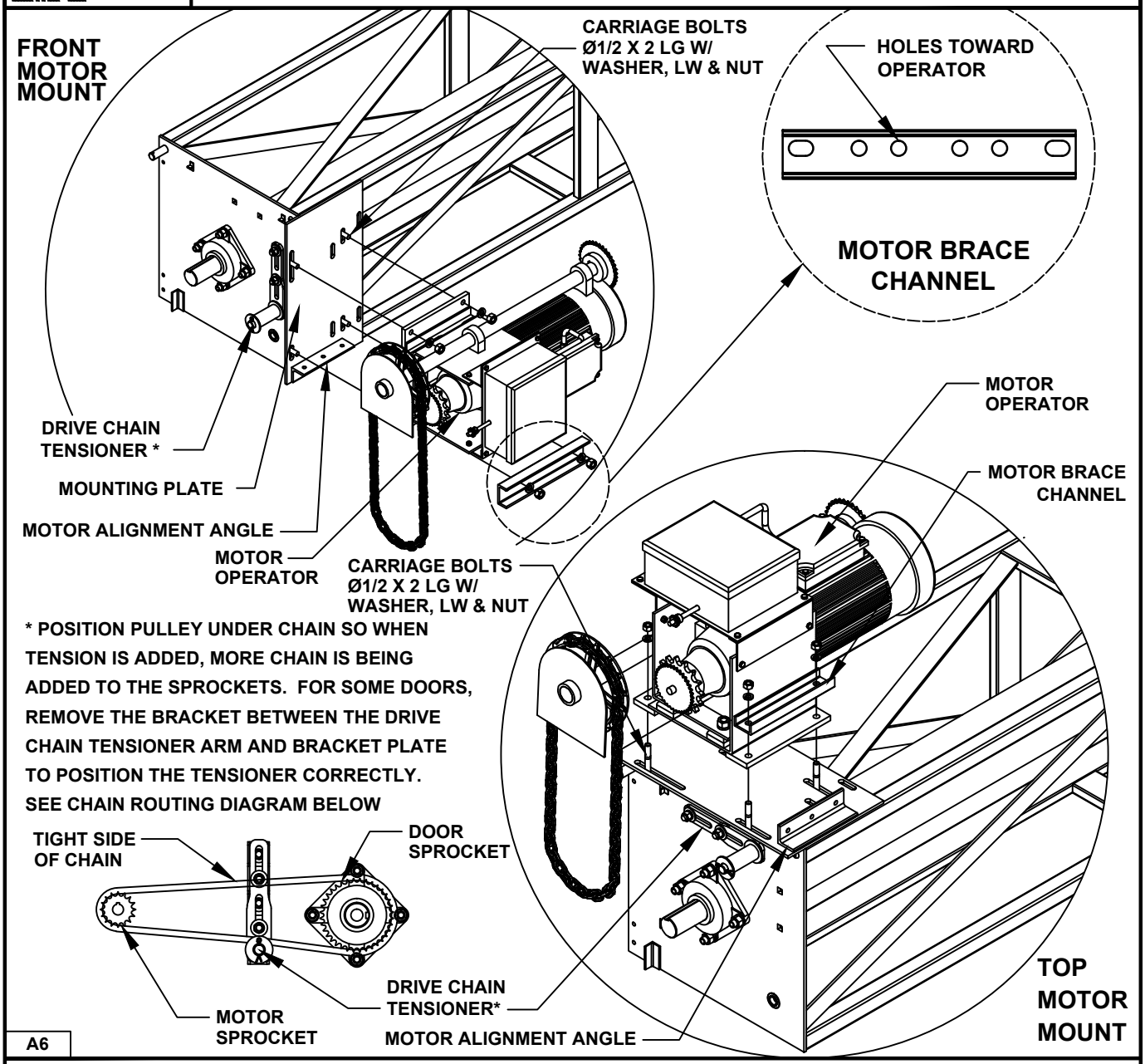
MOTOR INSTALLATION INSTRUCTIONS



*** POSITION PULLEY UNDER CHAIN SO WHEN TENSION IS ADDED, MORE CHAIN IS BEING ADDED TO THE SPROCKETS. FOR SOME DOORS, REMOVE THE BRACKET BETWEEN THE DRIVE CHAIN TENSIONER ARM AND BRACKET PLATE TO POSITION THE TENSIONER CORRECTLY. SEE CHAIN ROUTING DIAGRAM BELOW**

A6

1) BACK OUT THE BOLTS IN THE MOTOR ALIGNMENT ANGLE TO ALLOW MOTOR INSTALL AT LOWEST POINT OF MOTOR MOUNTING PLATE.
2) LIFTING MOTOR WITH A LIFTING STRAP, PLACE MOTOR AGAINST PLATE. NOTE: MOTOR BRACE CHANNEL TO BE BOLTED TO BOTTOM MOTOR BOLTS WHEN BEING INSTALLED. POSITION THRUST CHANNEL SO MOUNTING HOLES ARE CLOSER TO MOTOR.
3) BOLT BASE OF MOTOR TO MOUNTING PLATE WITH 1/2 X 2 CARRIAGE BOLTS PROVIDED IN SHIPPING CRATE, AND LEAVE LOOSE.
4) ALIGN MOTOR BY SCREWING IN BOLTS ON MOTOR ALIGNMENT ANGLE AND SECURE WITH JAM NUTS. THIS WILL ADJUST THE TILT OF MOTOR TO MAKE SURE THE DOOR AND MOTOR SPROCKETS ARE PARALLEL TO EACH OTHER.
5) TIGHTEN UP CARRIAGE BOLTS AND SET SCREWS ON MOTOR SPROCKETS.
6) LINE UP SPROCKET ON DOOR TO MOTOR AND INSTALL CHAIN. TO HELP ALIGN THE TAPER LOCK SPROCKET, SET THE SPROCKET UP ON THE HUB ABOUT 1/4" OUT OF ALIGNMENT AND ALLOW THE MOUNTING BOLTS ON THE HUB TO PULL THE SPROCKET INTO ALIGNMENT. TO SEPARATE SPROCKET FORM HUB, THREAD THE HUB BOLTS INTO THE THREADED HOLES ON THE HUB TO PUSH THE SPROCKET OFF THE HUB. (CONT. ON NEXT PAGE)

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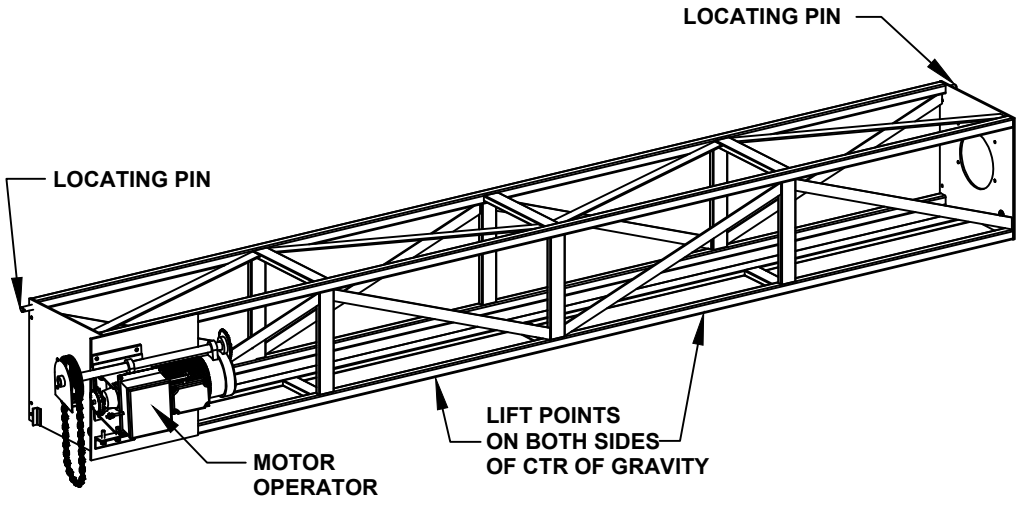
MOTOR INSTALLATION INSTRUCTIONS (CONT.)

7) USE CHAIN TENSIONER TO APPLY TENSION TO DRIVE CHAIN AND TIGHTEN FASTENERS.
8) CHECK SET SCREWS ON LIMIT SPROCKETS TO MAKE SURE THEY ARE TIGHT.
9) WIRE SAFETY BRAKE TO MOTOR AS PER WIRING DIAGRAM SUPPLIED WITH CONTROL PANEL.

BARREL AND BRACKET ASSEMBLY DOOR INSTALLATION INSTRUCTIONS



(FRONT MOTOR MOUNT SHOWN)

A7

*CURTAIN AND BARREL NOT SHOWN FOR CLARITY

1) DETERMINE WHETHER YOU HAVE RIGHT HAND (RH) OR LEFT HAND (LH) DRIVE, PLACE THE DOOR ASSEMBLY BELOW THE OPENING IN THE POSITION IT TAKES WHEN ACTUALLY MOUNTED.
2) LIFT DOOR ASSEMBLY UP ABOVE GUIDE SLOTS (FIG A8).
   NOTE: IF THIS IS A BETWEEN JAMB MOUNTING OR LOW HEAD ROOM MOUNTING, LIFT SO PINS CLEAR THE CUT OUT IN THE GUIDE AND PUSH STRAIGHT IN.

⚠ WARNING

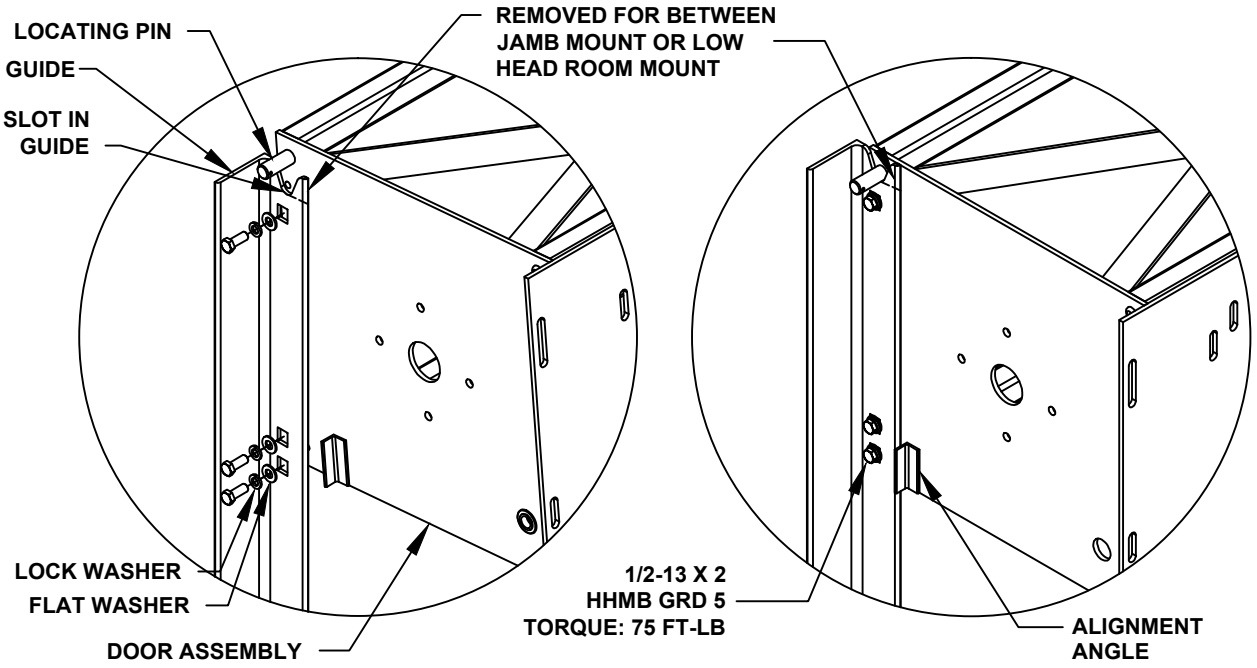
FOR BETWEEN JAMB OR LOW HEAD ROOM MOUNTING, THE LIFT WILL NEED TO REMAIN IN PLACE UNTIL THE MOUNTING FASTENERS HAVE BEEN INSTALLED

3) PLACE DOOR ASSEMBLY BETWEEN GUIDES AND LOCATE PINS ABOVE GUIDE SLOTS WITH AID FROM ALIGNMENT ANGLE. THERE SHOULD BE ABOUT 1/4" CLEARANCE ON EACH SIDE OF COIL BOX ASSY TO WALL ANGLES.
4) LOWER DOOR ASSEMBLY INTO GUIDE SLOTS (FIG A8).
5) USE 1/2 X 2 HHMB (PROVIDED IN SHIPPING CRATE) TO BOLT ASSEMBLY TO BRACKETS.
6) PULL WALL ANGLES TIGHT TO COIL BOX ASSEMBLY BY TIGHTENING BRACKET BOLTS.
7) TIGHTEN BOLTS ON WALL ANGLES ONCE PLUMB.
8) REMOVE FLAT BAR ON BOTTOM TO ALLOW CURTAIN MOVEMENT. (PAINTED RED)

⚠ WARNING

FAILURE TO REMOVE SHIPPING FLAT BAR PRIOR TO OPERATING CURTAIN MAY RESULT IN SEVERE DAMAGE TO CURTAIN AND POSSIBLY INJURY TO PERSONNEL

BARREL AND BRACKET ASSEMBLY
DOOR INSTALLATION INSTRUCTIONS (CONT)

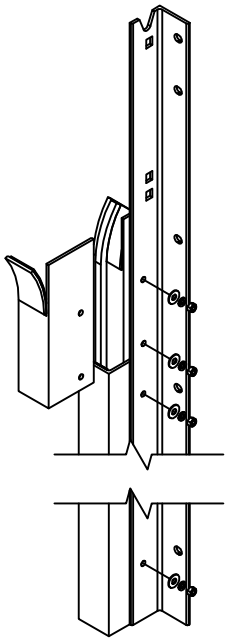


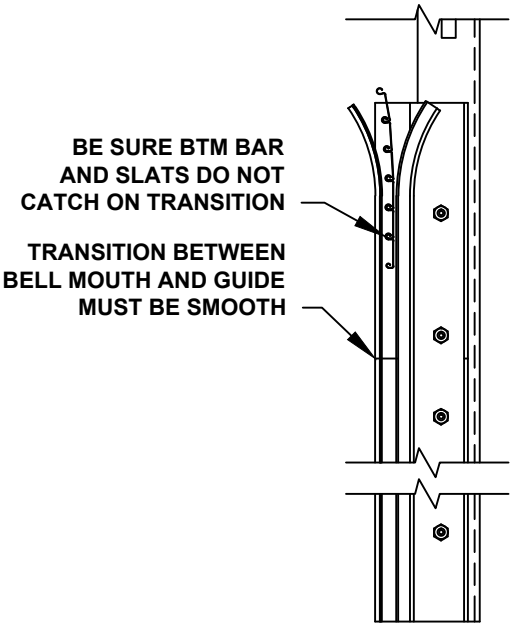
A8

MOTOR NOT SHOWN FOR CLARITY

BARREL AND BRACKET ASSEMBLY
DOOR INSTALLATION INSTRUCTIONS (CONT)

9) CHECK CURTAIN IS NOT BINDING AS IT IS FED INTO THE GUIDES. USING THE CHAIN HOIST, LOWER THE CURTAIN TO ABOUT THE HALF CLOSED POSITION. IF THE BOTTOM BAR, OR THE CURTAIN, CATCH IN THE TRANSITION BETWEEN THE BELL MOUTH (TOP OF THE GUIDE) AND THE REST OF THE GUIDE, MOVE THE BELL MOUTH IN 1/32".





11) MAKE WIRING CONNECTIONS FOR MOTOR AND CONTROL PANEL WITH OPERATOR MANUAL PROVIDED.

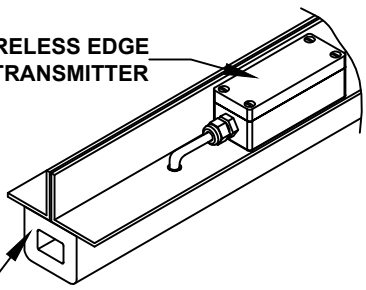
12) REFER TO COMMISSIONING SEQUENCE AFTER ELECTRICAL SETUP.

A9

WIRELESS EDGE (OPTIONAL EQUIPMENT)
INSTALLATION INSTRUCTIONS

THE WIRELESS SENSING EDGE IS AN AVAILABLE OPTION FOR THE 1024 SD. IF THE INSTALLED DOOR IS EQUIPPED WITH THIS OPTION, FOLLOW THE STEPS BELOW FOR INSTALLATION.

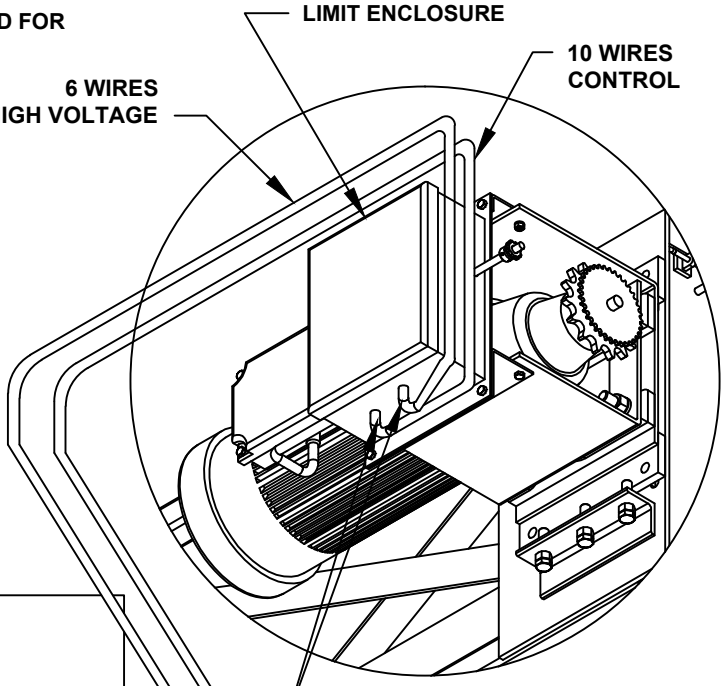
1) ENSURE PROPER CONNECTION OF ALL WIRING INCLUDING PHOTO EYE CONNECTIONS TO THE OPERATOR ARE COMPLETE, AND THAT THE DOOR AND OPERATOR ARE COMPLETELY FUNCTIONAL <u>PRIOR</u> TO CONNECTING THE WIRELESS EDGE TO THE SYSTEM.
2) VERIFY THAT THERE IS CONTINUITY BETWEEN THE SENSING EDGE LEADS WHEN THE EDGE IS ACTIVATED.
3) ATTACH THE WIRELSS EDGE TRANSMITTER TO THE BOTTOM BAR ON THE DRIVE SIDE/DRIVE END OF THE BOTTOM BAR AS SHOWN IN THE DETAIL BELOW.
4) REFER TO THE WIRELESS EDGE INSTALLATION INSTRUCTIONS FOR WIRING AND SET-UP.
<u>NOTE</u>: THE WIRELESS RECEIVER HAS BEEN INSTALLED AND WIRED INTO THE CONTROL PANEL AT THE FACTORY. VERIFY THE ADDRESS SETTINGS ON THE TRANSMITTER AND RECEIVER. ADJUST AS NECESSARY.



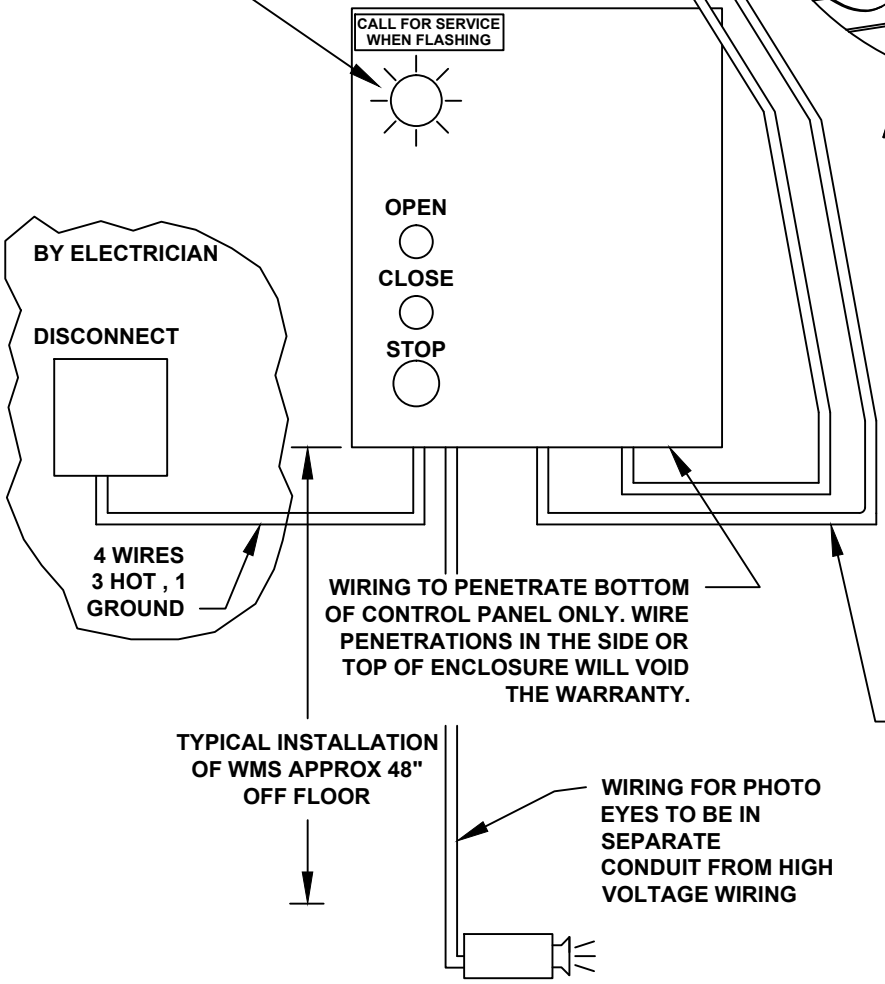
A10

CONTROL PANEL WIRING REQUIREMENTS

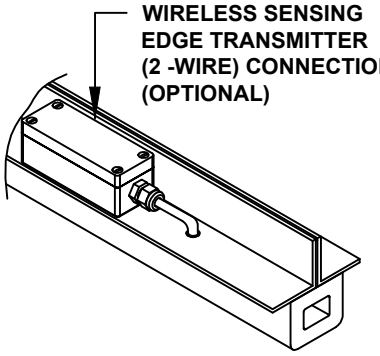
PROGRAMMABLE LOGIC CONTROL AND VARIABLE FREQUENCY DRIVE HAVE BEEN PRECONFIGURED FOR PROPER DOOR OPERATION AT THE FACTORY:
DO NOT ADJUST



LIGHT ON CONTROL PANEL WILL BEGIN FLASHING WHEN DOOR REACHES 500K & 1000K CYCLES INDICATING THE NEED FOR SCHEDULED MAINTENANCE.



COMPRESSION FITTING PROVIDED IN MOTOR LIMIT SWITCH BOX FOR INTERLOCK FOR SAFETY BRAKE AND PHOTO-EYE CONNECTIONS.



LIQUID-TITE CONDUIT PRE-POPULATED W/10 WIRES. WIRES ARE TERMINATED AND MARKED FOR FIELD CONNECTION TO WALL MTD STARTER PANEL.

JOB SPECIFIC WIRING DIAGRAMS HAVE BEEN PROVIDED IN CONTROL PANEL

A11

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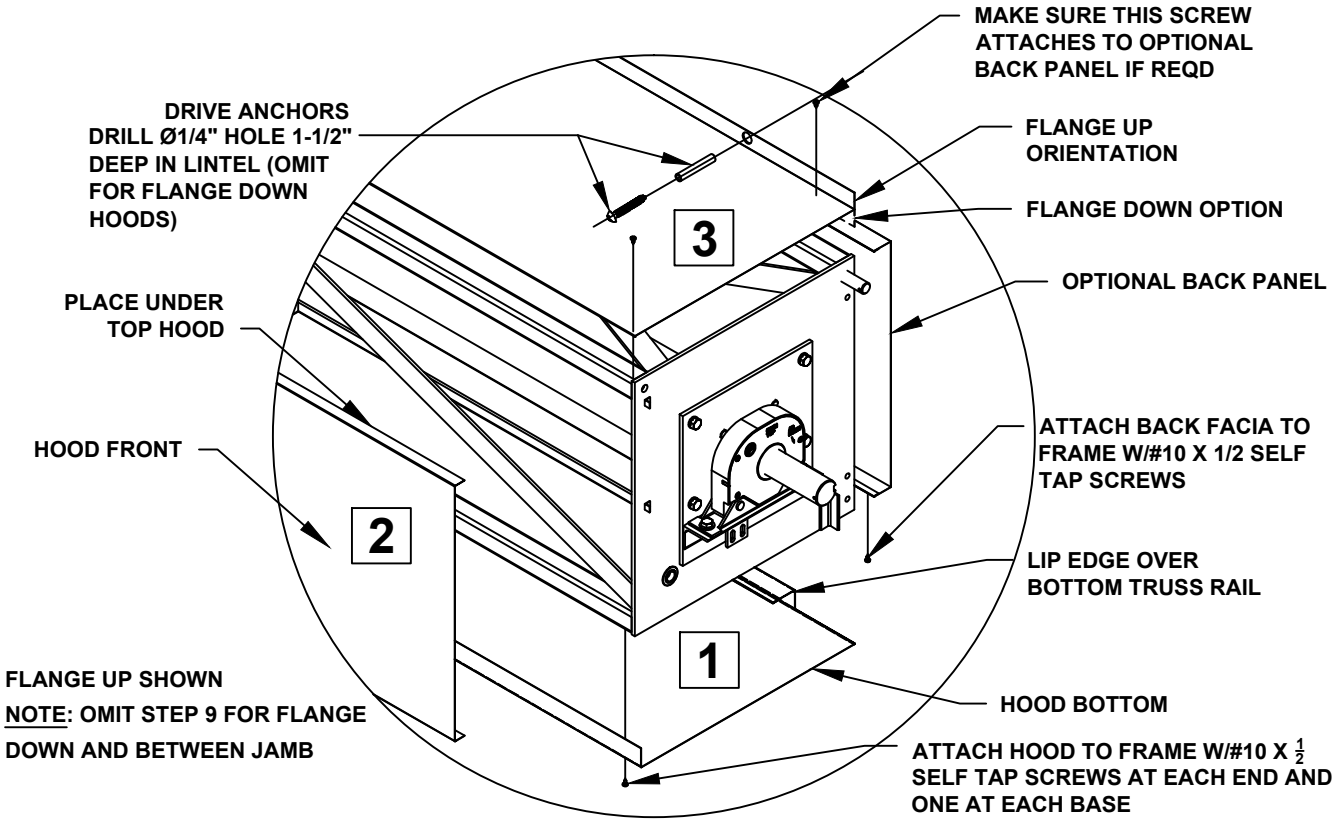
COMMISSIONING SEQUENCE

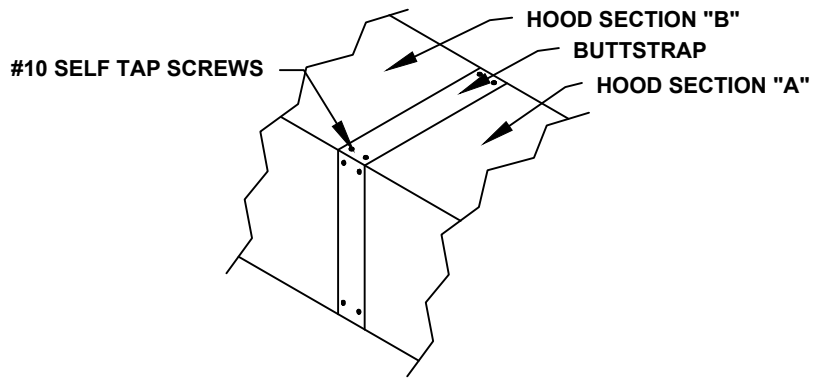
1) RUN DOOR TO THE FULLY CLOSED POSITION AND VERIFY LIMIT SETTING POSITION.
2) WITH THE DOOR IN THE FULLY CLOSED POSITION, VERIFY THE HEADER SLAT IS CENTERED ON THE BARREL. IF IT IS NOT, CENTER IT SO THE ENDLOCKS OF THE CURTAIN ARE BOTH ON THE PIPE, BY LOOSENING THE BARREL BOLTS AND SLIDING THE HEADER SLAT OVER.
3) ROLL THE CURTAIN UP IN ROUGHLY ONE FOOT INCREMENTS AND ALIGN THE CURTAIN BY THE FOLLOWING:
   A) USE A PRY BAR OR PRYING DEVICE BETWEEN THE BRACKET PLATE AND ENDLOCK TO SLIDE THE SLATS BACK AND FORTH TO LINE UP THE ENDLOCKS AND WINDLOCKS ON THE BARREL TO MATCH THE PREVIOUS CURTAIN WRAP.
   B) BE CAREFUL NOT TO DAMAGE THE CURTAIN ENDLOCK ATTACHMENT ASSEMBLY OF THE CURTAIN.
   C) WHEN THE ENTIRE CURTAIN HAS BEEN ALIGNED PROPERLY, THERE SHOULD NOT BE ANY CONING OF THE CURTAIN WHEN THE DOOR IS IN THE FULLY OPEN POSITION.
4) MAKE SURE THE OPEN LIMIT IS SET APPROPRIATELY. THE BOTTOM BAR AND FIRST SLAT SHOULD BE WITHIN THE FLAT PART OF THE GUIDE AND NOT POSITIONED IN THE BELL MOUTH.
   A) CATASTROPHIC DAMAGE TO THE CURTAIN MAY RESULT FROM AN UPPER LIMIT SET TOO HIGH.
   B) THE OPEN LIMIT HEIGHT IS PROVIDED IN THE INSTALL DIMENSION SHEET PROVIDED WITH THE DOOR. A LABEL IS ALSO PROVIDED TO SHOW THE MAXIMUM ALLOWABLE HEIGHT OF THE BOTTOM BAR WHEN THE UPPER LIMIT IS SET.
5) AFTER THE DOOR TRAVEL IS SMOOTH AND QUIET, CHECK THE FUNCTION OF THE PHOTOEYES AND OTHER INSTALLED SAFETY DEVICES BY ACTIVATING THEM ONCE DURING THE CLOSE CYCLE OF THE DOOR.
6) UPON COMPLETION OF THE PREVIOUS STEPS, THE DOOR IS READY FOR OPERATION. CONTINUE TO INSTALLATION OF HOODS AND COVERS.

HOOD INSTALL INSTRUCTIONS



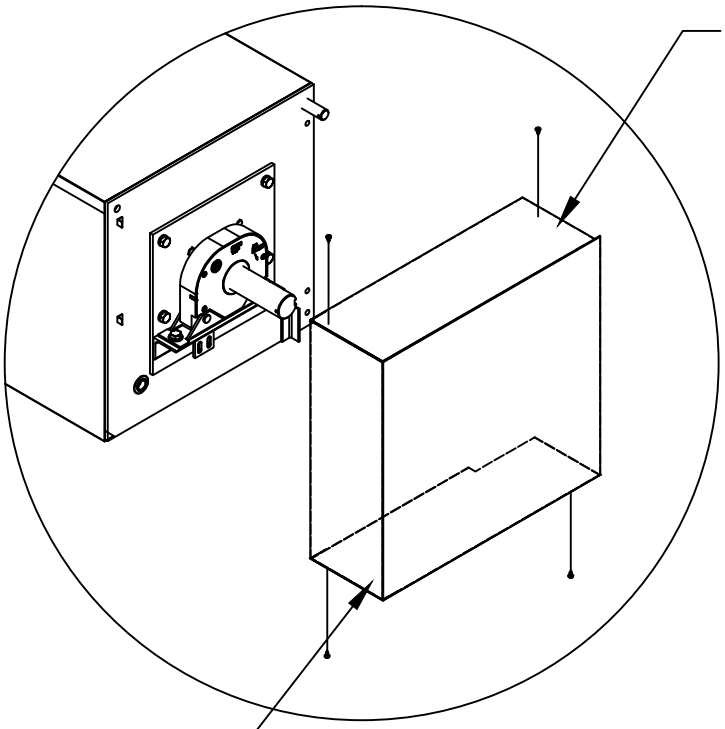
1) TOOLS REQD: DRILL W/5/16 NUT DRIVER ATTACHMENT AND 11/64" DRILL BIT.
2) USE CAUTION WHEN HANDLING SHARP EDGES.
3) ENSURE FELT ON COIL BOX IS NOT LOOSE.
4) SLIP BOTTOM LIP OF HOOD PIECE #1 OVER BOTTOM TRUSS RAIL.
5) INSTALL HOOD PIECE #2 WITH LOWER EDGE OVER HOOD PIECE #1.
6) OPTIONAL: INSTALL BACK FACIA PANEL.
7) INSTALL HOOD PIECE #3 WITH FRONT EDGE OVER HOOD PIECE #2 AND EDGE OVER BACK FACIA PANEL IF SUPPLIED. DRILL 11/64" PILOT HOLES AND SCREW #10 SELF-TAP SCREW THRU BOTH HOOD PIECES #1 AND #3 INTO THE DOOR ASSEMBLY.
8) FOR HOODS WHICH HAVE TWO SECTIONS, BUTT UP THE ENDS AND COVER WITH BUTT STRAP. FASTEN WITH #10 SELF-TAP SCREWS (SEE FIGURE A13)
9) WITH #3 PIECE FLANGE UP AT THE WALL, DRILL Ø1/4" HOLE 1-1/2" DEEP IN LINTEL AND DRIVE IN ANCHORS AT 24" O.C. MAX. (OMIT THIS STEP W/FLANGE DOWN HOODS).

A12



A13

END COVER INSTALLATION INSTRUCTIONS

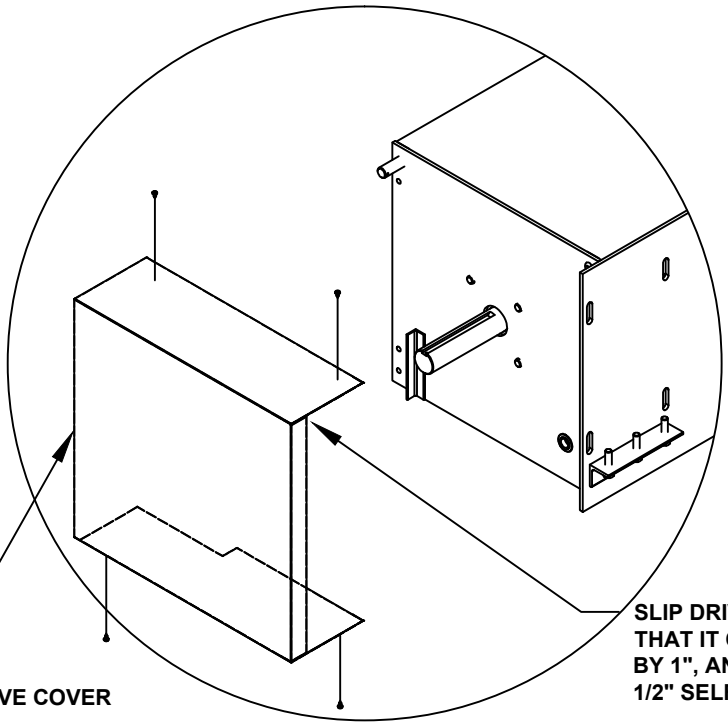


SLIP TENSION COVER SO THAT IT OVERLAPS HOOD BY 1", AND INSTALL #10 X 1/2" SELF TAP SCREWS

* GUIDES AND ANTI-WEAR DEVICE COMPONENTS NOT SHOWN FOR CLARITY

TENSION COVER

1) TOOLS REQUIRED: DRILL W/ 5/16" NUT DRIVER ATTACHMENT.
2) USE CAUTION WHEN HANDLING SHARP EDGES.
3) SLIP END COVER OVER END OF ASSEMBLY AND PROVIDE 1" OVERLAP. INSTALL #10 SELF-TAP SCREWS TO ATTACH COVER TO ASSEMBLY.



* MOTOR AND COMPONENTS NOT SHOWN FOR CLARITY

SLIP DRIVE COVER SO THAT IT OVERLAPS HOOD BY 1", AND INSTALL #10 X 1/2" SELF TAP SCREWS

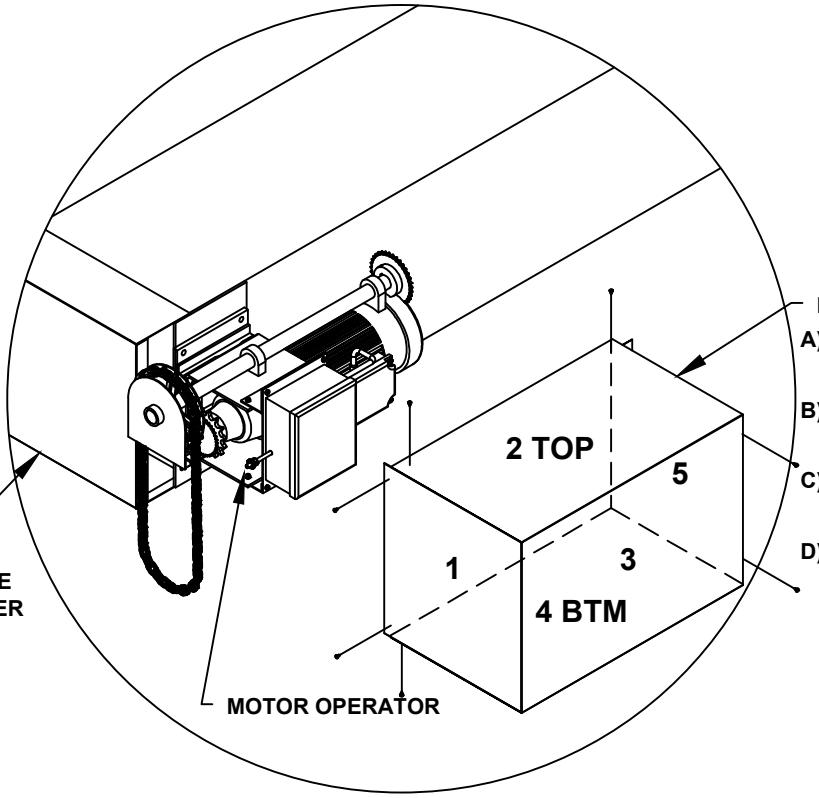
DRIVE COVER

FRONT MOTOR MOUNT

A14

MOTOR COVER INSTALLATION INSTRUCTIONS

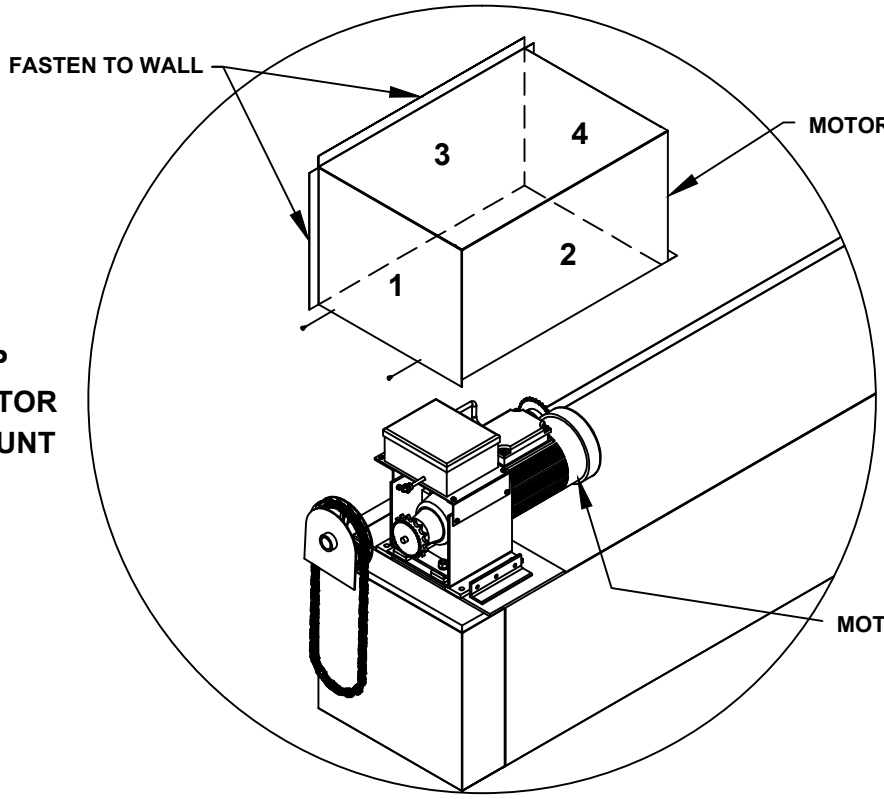
FRONT MOTOR MOUNT



A) FASTEN PANELS 2&4 TO PANEL 3.
B) INSERT PANEL 1 AND FASTEN TO ASSY.
C) INSERT PANEL 5 AND FASTEN TO ASSY.
D) FASTEN ASSY TO DOOR.

1) INSTALL MOTOR COVER TO DRIVE COVER AND HOOD WITH #10 SELF-TAP SCREWS PROVIDED. MAKE SURE THAT COVER IS SQUARE TO HOOD.
2) IF OUTSIDE MOUNTED, APPLY SILICONE OR EQUIVALENT SEALANT TO TOP BEAD OF MOTOR COVER.

TOP MOTOR MOUNT



A) FASTEN PANEL 1 TO PANEL 2.
B) FASTEM PANEL 3 TO ASSY.
C) INSERT PANEL 4 INTO ASSY AND FASTEN.
D) FASTEN ASSY TO DOOR.

A15

MAINTENANCE AND REPAIR PROCEDURES

WARRANTY

THE COOKSON COMPANY, INC., WARRANTS TO THE BUYER THAT THE 1024 DOOR SERIES WILL BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP (ORDINARY WEAR AND TEAR EXPECTED) FOR THE TIME PERIODS BELOW:

MECHANICAL COMPONENTS: FOR A PERIOD OF FIVE YEARS OR ONE MILLION CYCLES, WHICHEVER COMES FIRST, FROM THE DATE OF SHIPMENT.

OPERATOR AND CONTROL PANEL: FOR A PERIOD OF FIVE YEARS OR ONE MILLION CYCLES, WHICHEVER COMES FIRST, FROM THE DATE OF SHIPMENT.

DOOR SLATS: FOR A PERIOD OF FIVE YEARS FROM THE DATE OF SHIPMENT AGAINST BLISTERING, FLAKING, OR PEELING. NORMAL FINISH WEAR IS NOT INCLUDED.

THIS WARRANTY DOES NOT INCLUDE EXTRA MATERIALS, EQUIPMENT, OR LABOR THAT MAY BE REQUIRED DUE TO SITE CONDITIONS, ADJACENT CONSTRUCTION, INCORRECT INSTALLATION, LACK OF MAINTENANCE, LACK OF ACCESS, ORDINARY WEAR, ABUSE, OR NEGLECT. DOCUMENTATION OF A PROPERLY EXECUTED MAINTENANCE PROGRAM WILL BE REQUIRED PRIOR TO CORRECTIVE ACTION BEING AUTHORIZED. THE DESIGN OF COILING PRODUCTS BY NATURE WILL ABRADE VIRTUALLY ANY APPLIED FINISH. FOR THIS REASON, COOKSON DOES NOT WARRANT EITHER STANDARD OR OPTIONAL FINISHES. COMPONENT WEAR IS TO BE EXPECTED IN THE NORMAL OPERATION OF A HIGH CYCLE DOOR. COOKSON AGREES TO REPAIR OR REPLACE, AT COOKSON'S DISCRETION, ANY PARTS WHICH ARE DETERMINED, BY COOKSON, TO BE DEFECTIVE.

IMPORTANT: DOORS MOUNTED IN EXTERIOR LOCATIONS REQUIRE HOODS, FASCIA, END COVERS AND MOTOR COVERS TO BE PROPERLY INSTALLED ON THE DOOR. FAILURE TO DO SO COULD RESULT IN LIMITATIONS TO YOUR WARRANTY.

INTRODUCTION

THIS SECTION CONTAINS INSTRUCTIONS FOR MAINTENANCE, REPAIR, PREPARATORY DISASSEMBLY, ADJUSTMENTS AND ALIGNMENTS THAT MAY BE REQUIRED DURING THE LIFE OF THESE DOORS. A LIGHT ON THE CONTROL PANEL INDICATES WHEN SERVICE IS REQUIRED, WHICH ILLUMINATES AT 500,000 CYCLE INTERVALS. THE SERVICE LIGHT IS TO BE RESET BY THE DOOR TECHNICIAN UPON SERVICE.

⚠ WARNING

ALL ADJUSTMENTS TO ROLLER CHAIN TENSION AND SPROCKET ALIGNMENT MUST BE MADE WHEN DOOR IS IN FULLY CLOSED POSITION, OR WITH THE DOOR COILED UP INSIDE THE COIL BOX AND THE CURTAIN SECURED WITH THE CURTAIN RETAINERS.

REPAIR

IN ORDER TO REPAIR A MOTOR OPERATED ROLL-UP DOOR IT IS OFTEN NOT NECESSARY TO COMPLETELY DISASSEMBLE THE DOOR. ONE ONLY NEEDS TO DISASSEMBLE THE PARTS NECESSARY TO GAIN ACCESS TO THE PARTS NEEDING REPAIR.

TO REPLACE SLATS AND/OR FOOTPIECE

RAISE DOOR TO THE FULLY OPEN POSITION. REMOVE TOP SECTIONS OF THE OUTSIDE GUIDE ANGLES TO GAIN ACCESS TO THE CURTAIN. REMOVE CURTAIN AND/OR FOOTPIECE, REPAIR PARTS, REINSTALL TOP GUIDE SECTIONS AND TEST FOR PROPER OPERATION. PERFORM COMMISSIONING SEQUENCE.

TO COMPLETELY DISASSEMBLE DOOR

RAISE DOOR TO THE FULLY OPEN POSITION AND REMOVE HOOD. HAND CHAIN CURTAIN INTO COIL BOX SO BOTTOM BAR IS ABOVE OPENING AND INSTALL CURTAIN RETAINER. TIE A LINE OR STRAP AROUND CURTAIN OR FOOTPIECE, THUS PREVENTING CURTAIN FROM BEING LOWERED. DISASSEMBLE THE DOOR BY REVERSING THE INSTALLATION INSTRUCTIONS.

CURTAIN CARE AND TOUCH-UP INSTRUCTIONS

WHILE COOKSON DOOR FINISHES ARE ENGINEERED TO LAST, THE INHERENT DESIGN OF ROLLING DOOR PRODUCTS WILL EVENTUALLY ABRADE VIRTUALLY ANY APPLIED FINISH. CARE SHOULD BE TAKEN ON DIRTY OR DUSTY JOBSITES NOT TO USE THE DOORS UNLESS THEY HAVE BEEN CLEANED, OTHERWISE THE FINISH MAY BE DAMAGED. ROUTINE CARE AND MAINTENANCE WILL FURTHER HELP PROLONG FINISH LIFE BY REDUCING THE AMOUNT OF WEAR CAUSED BY FOREIGN SUBSTANCES ON THE DOOR CURTAIN. FOLLOWING THE CLEANING AND TOUCH-UP INSTRUCTIONS BELOW WILL HELP TO PROTECT AND MAINTAIN THE SURFACE FINISH.

TO FURTHER PROTECT THE DOOR, IT IS ALSO RECOMMENDED THAT IT BE DISABLED IN THE OPEN POSITION UNTIL PROJECT CLOSE OUT. IF THE DOOR IS TO BE UTILIZED BY OTHER TRADES DURING THE CONSTRUCTION PROCESS, THEN THE CONTRACTOR SHOULD ACCEPT OWNERSHIP OF IT AT THE TIME OF INSTALL TO ENSURE THAT THE DOOR IS TURNED OVER TO THE BUILDING OWNER IN ITS ORIGINAL "NEW" CONDITION.

CLEANING INSTRUCTIONS

1) CLEAN THE DOOR PRIOR TO USE, AND REGULARLY, USING A DAMP CLOTH OR LIGHT SPRAY WASH. REMOVE ALL DUST, DIRT AND DEBRIS FROM THE CURTAIN SURFACE.

2) FOR DOORS WHICH ARE SUBJECTED TO HEAVIER DIRT CONDITIONS, WASH THE DOOR WITH A MIXTURE OF LIGHT DISH SOAP AND WATER. USE 2 OZ OF SOAP FOR EACH GALLON OF WATER, THEN RINSE ALL SOAP FROM THE DOOR AND DRY.

TOUCH-UP INSTRUCTIONS

1) CLEAN THOROUGHLY AND ENSURE THAT THE DOOR IS COMPLETELY DRY.

2) MIX PAINT FOR ONE FULL MINUTE PRIOR TO USE.

3) APPLY MULTIPLE LIGHT COATINGS TO AVOID PAINT RUNS. FOR SPRAY APPLICATIONS, HOLD THE CAN APPROXIMATELY 8" TO 12" FROM THE SURFACE, COVERING ALL WEAR AREAS. FOR BRUSH APPLICATIONS, APPLY EVENLY ACROSS WEAR AREA AND EXTEND OVER COATED AREA.

4) LET DRY FOR 24 TO 48 HOURS BEFORE CYCLING THE DOOR.

PREVENTATIVE MAINTENANCE SCHEDULE

PREVENTATIVE MAINTENANCE AND TEST PROCEDURES

THESE DOORS HAVE BEEN DESIGNED FOR A MINIMUM OF MAINTENANCE. ALL SCHEDULED MAINTENANCE AND TEST PROCEDURES ARE TO BE FOUND IN THIS SECTION.

COMPREHENSIVE MAINTENANCE

ITEM	CHECK
VISUAL CHECK	VISUALLY INSPECT DOOR FOR UNREPORTED DAMAGE. REPAIR OR REPLACE ANY DAMAGED PARTS. VISUAL INSPECTION INCLUDES CURTAIN, GUIDES, HOODS AND CONTROL PANEL.
OPERATIONAL CHECK	OPERATE DOOR ONE FULL CYCLE WHILE INSPECTING DOOR OPERATION FOR BINDING, STRAINING OR UNUSUAL NOISES. CORRECT ANY OPERATIONAL PROBLEMS FOUND.
MOTOR CHECK	OPERATE DOOR ONE FULL CYCLE WHILE CHECKING MOTOR FOR UNUSUAL NOISES, SMELLS OR SMOKE. CORRECT ANY MOTOR OPERATIONAL PROBLEMS FOUND.
DRIVE CHAIN LUBRICATION/ INSPECTION	INSPECT ROLLER CHAINS, SPROCKETS AND GEARS. REPLACE ANY SPROCKETS OR GEARS WITH TEETH WORN WHERE THEY DO NOT OPERATE SMOOTHLY. LUBRICATE CHAINS & SPROCKETS WITH A MOLY BASED CHAIN LUBE. ADJUST CHAIN TENSION AS REQUIRED. REPLACE CHAIN IF STRETCHED TO THE POINT WHERE IT MAKES NOISE.
DRIVE CHAIN TENSIONER	INSPECT THE BUSHING ON THE TENSIONER. IF WEAR DEPTH EXCEEDS THE HEIGHT OF THE CHAIN, REPLACE THE BUSHING.
SAFETY BRAKE INSPECTION	VERIFY THAT RED TAB IS NOT PUSHED OUT OF HOUSING. OPERATE DOOR ONE FULL CYCLE WHILE CHECKING FOR UNUSUAL NOISES AND VIBRATION. REPLACE IF VISIBLE DAMAGE SEEN THROUGH CLEAR COVER. IF THE RED TAB IS OUT, PROCEED TO THE INERTIA BRAKE RESETTING INSTRUCTIONS ON PAGE 26.
LIMIT SHAFT / NUTS	VERIFY THE THREADS ON THE LIMIT SHAFT ARE NOT WORN AND ARE LUBRICATED PROPERLY. CHECK FOR EXCESSIVE SHAFT END PLAY. VERIFY THE LIMIT NUTS DO NOT WOBBLE EXCESSIVELY OR BIND ON THE LIMIT SHAFT. USE A MOLY BASED CHAIN LUBE FOR LUBRICATION.
OPERATOR INSPECTION	OPERATE DOOR IN THE CLOSE DIRECTION AND HIT THE "STOP" BUTTON WHEN THE BOTTOM BAR IS ABOUT 36" ABOVE THE FINISHED FLOOR. VERIFY THAT THE BRAKE DOES NOT ALLOW THE DOOR TO CONTINUE TO MOVE IN THE CLOSED DIRECTION MORE THAN 2" AFTER THE INITIAL BRAKE ENGAGEMENT.
BRACKET BEARINGS	INSPECT THE BRACKET BEARINGS FOR WORN OUTER RACES AND DEBRIS. LUBRICATE THE BEARINGS WITH BEARING GREASE VIA THE SUPPLIED GREASE FITTINGS.
SENSING EDGE	OPERATE DOOR IN THE CLOSED DIRECTION AND CONTACT THE EDGE TO VERIFY EDGE FUNCTIONS AND DOOR RETURNS TO THE FULLY OPEN POSITION. CHECK THE BATTERY CONDITION IN THE TRANSMITTER AND REPLACE BATTERY IF REQUIRED. INSPECT THE BOTTOM SURFACE OF THE EDGE FOR CRACKING OR SEPARATION AT ENDS.
PHOTO-EYES	OPERATE THE DOOR IN THE CLOSED DIRECTION AND PLACE AN OBSTRUCTION IN THE PATH OF THE PHOTO-EYES AS THE DOOR IS IN MID-TRAVEL. VERIFY THAT THE DOOR STOPS AND REVERSES TO THE FULLY OPEN POSITION.

MAINTENANCE SCHEDULE

	CYCLES					
	3 MONTHS	500K/12 MOS	1M/24 MOS	1.5M/36 MOS	2.0M/48 MOS	2.5M/60 MOS
VISUAL INSPECTION	INSPECT	INSPECT	INSPECT	INSPECT	INSPECT	INSPECT
BRACKET BEARINGS	INSPECT	LUBRICATE	LUBRICATE	LUBRICATE	LUBRICATE	LUBRICATE
DRIVE CHAIN	INSPECT	LUBE/INSPECT	LUBE/INSPECT	LUBE/INSPECT	LUBE/INSPECT	LUBE/INSPECT
DRIVE CHAIN TENSIONER	INSPECT	INSPECT	INSPECT	INSPECT	INSPECT	INSPECT
LIMIT NUTS/SHAFT	INSPECT	LUBRICATE	LUBRICATE	LUBRICATE	LUBRICATE	LUBRICATE
MOTOR OPERATOR	INSPECT	INSPECT	INSPECT	INSPECT	INSPECT	INSPECT
OPERATOR BRAKE OPERATION	TEST	TEST	TEST	TEST	TEST	TEST
INERTIA BRAKE	INSPECT	INSPECT	REPLACE*	INSPECT	REPLACE*	INSPECT
SENSING EDGE	INSPECT	INSPECT	INSPECT	INSPECT	INSPECT	INSPECT
PHOTOEYES	INSPECT	INSPECT	INSPECT	INSPECT	INSPECT	INSPECT
MAINTENANCE DATE						
CYCLE COUNTER READOUT						
SERVICER INITIALS						

*REPLACE ONLY ON CYCLE INTERVAL. DO NOT REPLACE AT 12 MONTH INTERVALS.

TROUBLESHOOTING GUIDE

FOR ELECTRICAL ISSUES - CONSULT MOTOR OPERATOR MANUAL.

BARREL

PROBLEM	CAUSE	CORRECTION
A) DOOR STARTS DOWN THEN STOPS	1) CURTAIN BINDS IN GUIDES. 2) INTERNAL INTERFERENCE INSIDE COIL BOX.	1) INCREASE GUIDE GROOVE OPENING. CURTAIN MUST BE LOOSE IN GUIDES. 2) CONSULT DISTRIBUTOR.
A) DRIVE SHAFT BENT	1) BROKEN WELD OR SHIPPING DAMAGE.	1) CONSULT DISTRIBUTOR FOR DETERMINATION IF FIELD REPAIR IS POSSIBLE.

CURTAIN

PROBLEM	CAUSE	CORRECTION
A) CURTAIN ROLLS UP UNEVENLY	1) TOP SLATS NOT IN LINE. 2) CURTAIN NOT LINED UP. 2) BARREL NOT LEVEL.	1) LOOSEN TOP SCREWS AND STRAIGHTEN CURTAIN. 2) SEE COMMISSIONING SEQUENCE. 3) USE HYDRO-LEVEL TO LEVEL BARREL.
B) DOOR CURTAIN SEPARATES.	1) FREIGHT DAMAGE.	1) CONSULT DISTRIBUTOR.
C) CURTAIN SEPARATES FROM BARREL.	1) MACHINE BOLTS PULLED THRU TOP SLAT. 2) CURTAIN BACK WOUND. 3) HEADER SLAT FAILURE.	1) INSTALL WASHER UNDER HEAD OF SCREWS. 2) CONSULT DISTRIBUTOR. 3) CONSULT DISTRIBUTOR.
D) FINISH PROBLEMS	1) PAINT WORN DOWN TO BARE METAL WITH LOW NUMBER OF CYCLES. 2) DIRT AND FOREIGN OBJECTS ON CURTAIN.	1) CLEAN WITH MILD SOAP AND WATER.

BRACKET

PROBLEM	CAUSE	CORRECTION
A) DRIVE CHAIN NOISE	1) SPROCKET POSITION OUT OF ALIGNMENT. 2) DRIVE CHAIN STRETCHED.	1) TIGHTEN CHAIN BY SLIDING OPERATOR OR REMOVE LINK FROM CHAIN. 2) REPLACE DRIVE CHAIN.
B) BINDING IN BEVEL GEAR BOX	1) LOOK AT LUBRICATION.	1) LUBRICATE GEAR BOX.

TROUBLESHOOTING GUIDE (CONT.)

GUIDE

PROBLEM	CAUSE	CORRECTION
A) CURTAIN BINDS IN GUIDE GROOVE	1) INCORRECT GUIDE GROOVE OPENING. 2) INCORRECT TIP-TO-TIP DIMENSION OF GUIDES.	1) REFER TO INSTALL INSTRUCTIONS AND ADJUST GUIDE GROOVE OPENING. 2) REFER TO INSTALL INSTRUCTIONS FOR TIP-TO-TIP DIMENSION AND ADJUST GUIDE SPACING.

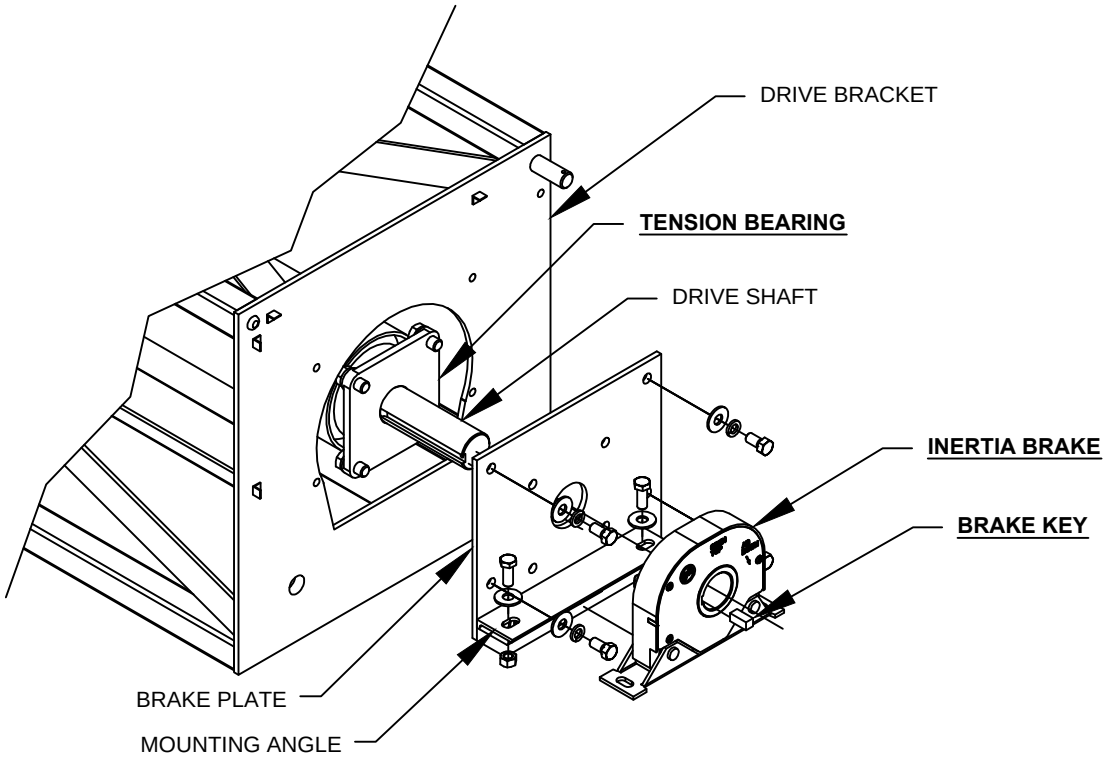
HOOD

PROBLEM	CAUSE	CORRECTION
A) INCORRECT DIMENSIONS, MATERIAL OR END COVERS	1) ORDERING PROCESSING PROBLEMS.	1) GET ALL DIMENSIONS OF MATERIAL SUPPLIED AND CONSULT DISTRIBUTOR.

INERTIA BRAKE

PROBLEM	CAUSE	CORRECTION
A) DOOR STARTS DOWN THEN STOPS	1) SAFETY BRAKE ENGAGED. 2) SAFETY BRAKE PROBLEMS.	1) VISUALLY INSPECT SAFETY BRAKE. IF RED TAB IS OUT BRAKE IS ENGAGED. FOLLOW INERTIA BRAKE RESET INSTRUCTIONS.
B) DOOR JERKS IN DOWN DIRECTION	1) SAFETY BRAKE ENGAGED. 2) SAFETY BRAKE PROBLEMS.	1) VISUALLY INSPECT SAFETY BRAKE. IF RED TAB IS OUT BRAKE IS ENGAGED. FOLLOW INERTIA BRAKE RESET INSTRUCTIONS.

DOOR COMPONENT REPLACEMENT INSTRUCTIONS



A16

INERTIA BRAKE RESETTING INSTRUCTIONS

1) RUN IN THE OPEN DIRECTION 1" OR MORE TO RELIEVE TORQUE LOCK ON THE BRAKE.
2) INSPECT THE BRAKE BY LOOKING IN THE CLEAR COVER AND SEE IF THE SPRINGS ARE INTACT. BRAKE REMOVAL MAY BE REQUIRED FOR INSPECTION. IN THIS EVENT, REFER TO BRAKE REPLACEMENT INSTRUCTIONS FOR REMOVAL PROCEDURE.
   A) IF THE SPRINGS ARE INTACT, THE BRAKE MOST LIKELY HAS BEEN PARTIALLY ENGAGED. SEE STEP 3.
   B) IF THE SPRINGS HAVE BEEN DEFORMED AND ARE OFF THE RETAINING PINS SO THAT THEY ARE LAYING IN THE BOTTOM OF THE BRAKE HOUSING, THE BRAKE HAS BEEN FULLY ENGAGED. SEE STEP 5.
3) PUSH THE RED TAB BACK IN TO RESET THE BRAKE.
4) RUN THE DOOR IN THE DOWN DIRECTION TO VERIFY THAT THE DOOR OPERATES SMOOTHLY WITH NO ENGAGEMENT FROM THE BRAKE. IF THE DOOR DOES NOT OPERATE SMOOTHLY DUE TO THE BRAKE BINDING, GO ON TO STEP 5.
5) IF THE SPRINGS ARE DEFORMED, NOT INTACT, OR THE BRAKE DOES NOT OPERATE SMOOTHLY, THE BRAKE HAS BEEN FULLY ENGAGED AND MUST BE REPLACED. FOLLOW THE BRAKE REPLACEMENT PROCEDURE PER THE INSTALLATION AND MAINTENANCE MANUAL.

TENSION BRACKET BEARING REPLACEMENT

1) OPERATE DOOR TO FULLY CLOSED POSITION.
2) REMOVE INERTIA BRAKE PER INSTRUCTIONS. (SEE FIG A16)
3) SUPPORT BARREL WITH STRAPS HUNG FROM COIL BOX ASSY.

NOTE: A COME-ALONG OR STRAPS ATTACHED TO FORKS OF A FORKLIFT HELP INSTALLATION AND REMOVAL AS THIS ALLOWS BARREL HEIGHT TO BE ADJUSTED.

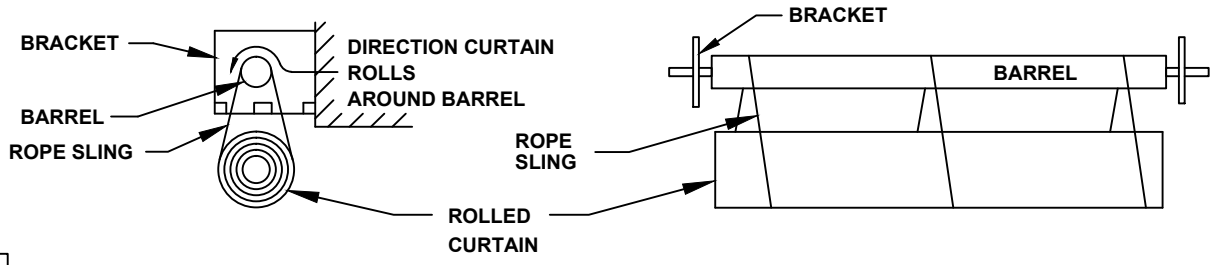
4) REMOVE BARREL PLATE WITH BEARING ATTACHED.
5) REMOVE BRAKE PLATE BEARING AND REPLACE.
6) INSTALLATION IS REVERSAL OF REMOVAL.

DRIVE BRACKET BEARING REPLACEMENT

1) REMOVE DRIVE CHAIN PER INSTRUCTIONS.
2) REMOVE DOOR SPROCKET ON DRIVE SIDE.
3) SUPPORT BARREL WITH STRAPS HUNG FROM COIL BOX ASSEMBLY.

NOTE: A COME-ALONG OR STRAPS ATTACHED TO FORKS OF A FORKLIFT HELP INSTALLATION AND REMOVAL AS THIS ALLOWS BARREL HEIGHT TO BE ADJUSTED.

4) REMOVE AND REPLACE DRIVE BRACKET BEARING.
5) INSTALLATION IS REVERSAL OF REMOVAL.



A17

CURTAIN REPLACEMENT

1) RAISE DOOR TO FULLY OPEN POSITION.
2) REMOVE TOP SECTION OF GUIDES.
3) SLING CURTAIN WITH STRAPS OR ROPE AS SHOWN IN FIG A67.

NOTE: ROUTE ONE SIDE OF ROPE SLING THROUGH OPENING IN COIL BOX BEHIND CURTAIN AND OTHER SIDE IN FRONT OF CURTAIN IN THE OPEN SECTION TOWARDS THE FRONT OF COIL BOX (SEE FIG A16).

4) USE HAND CHAIN TO LOWER CURTAIN ONTO SLING.

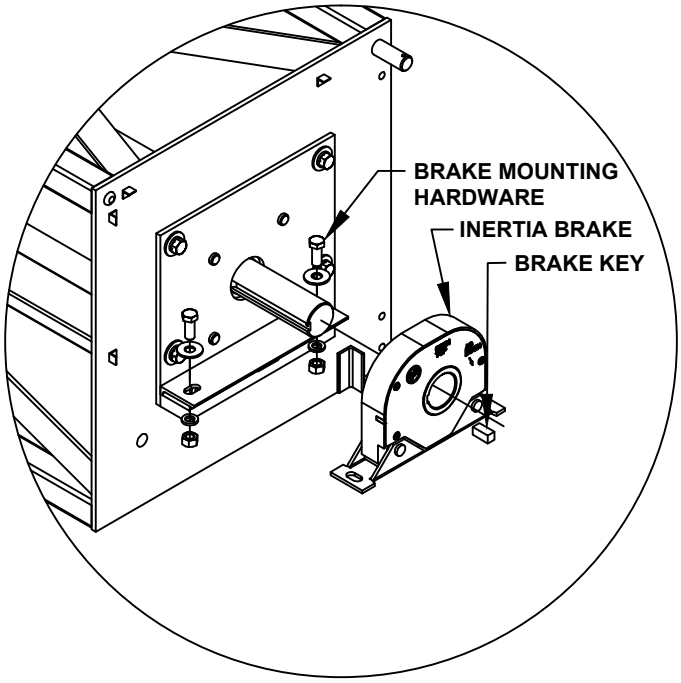
NOTE: BE CAREFUL CURTAIN CLEARS LOWER SECTION OF THE GUIDES AS IT COILS.

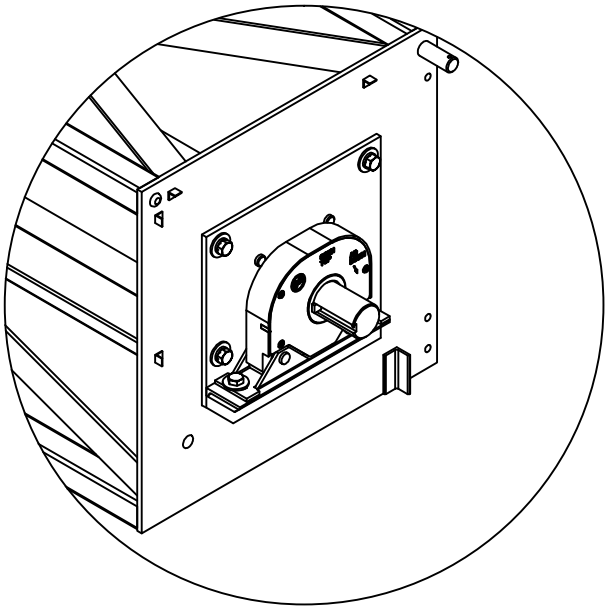
5) TIE ROPES OR STRAPS AROUND CURTAIN TO HOLD IN COIL, REMOVE ROPE SLINGS FROM BARREL, AND LOWER CURTAIN TO GROUND WITH FORK LIFT.
6) INSTALLATION IS REVERSAL OF REMOVAL.

NOTE: PERFORM COMMISSIONING SEQUENCE WHEN DONE.

Watch Support Video

INERTIA BRAKE REPLACEMENT INSTRUCTIONS





A18

TO REPLACE BRAKE:

1) RUN DOOR TO FULLY CLOSED POSITION. IF BRAKE IS LOCKED SO DOOR WILL NOT CLOSE, RUN DOOR TO OPEN 1", AND RUN DOOR TO CLOSED POSITION AFTER STEP 8.
2) REMOVE BOLTS ON BRAKE MOUNTING ANGLE AND SLIDE OLD BRAKE OFF. REMOVE KEY.
3) SEPARATE WIRES FROM OLD INERTIA BRAKE.
4) POSITION NEW BRAKE ON MOUNTING ANGLE AND TIGHTEN FASTENERS. (MAKE SURE DIRECTIONAL ARROW ON BRAKE POINTS TOWARD DIRECTION OF BARREL ROTATION AS DOOR CLOSES) ADJUST MOUNTING ANGLE AS REQUIRED BY LOOSENING POSITION ADJUSTMENT BOLTS. TIGHTEN BOLTS AFTER BRAKE FASTENERS ARE TIGHT.
5) CONNECT WIRES TO NEW INERTIA BRAKE.
6) INSTALL BRAKE KEY. REPLACEMENT KEY IS PROVIDED WITH NEW BRAKE.
7) OPERATE DOOR AND CHECK FOR PROPER OPERATION.