

3-3950-01(10) ECN 1187 BY RG 8/1/13

THIS REVISION SUPERSEDES ALL PREVIOUS REVISIONS

# TABLE OF CONTENTS

PAGE#	DESCRIPTION	FIG#	
FD	Freight Damage Instructions		
1	Pre-Installation Instructions/Safety Checklist		
2/3	Guide Installation	A1-A6	
4	Optional Welded Wall Angle Installation	A7	
5	Fastener Table		
5	Guide Groove Dimension Table		
6	Barrel & Bracket Assembly	A8 / A9	
7	Curtain Assembly for SD/FD/or Grille Door	A10 / A11	
8	Tensioning Instructions- Standard Tension Wheel	A12	
8	Tensioning Instructions- Special Tension Sprocket	A13	
9	Hood Support Mounting Instruction	A14 / A15	
10	Hood Installation	A16 / A17	
Manual	Operators		
11	Hand Chain Operator Installation	B1	
11	Crank Gearbox Assembly- Worm Gear Type	B2	
12	Crank Operated Installation Instructions	B3	
13	Thru-Wall Crank Operated Installation Instructions	B4	
14	Thru-Wall Chain Operated Assembly	B5	
Motor O	perators		
15	Vertically Mounted Motor Operator	C1	
16	Vertically Mounted 3 HP GH Double Reduction Bracket	C2	
17	Horizontally Mounted GH Motor Operator	C3	
18	Side Mounted GH Motor Operator		
18	Wall Mounted Operator	C4	
19	Thru Wall GH Motor Operator	C5	
20	Belt Drive Motor Bracket Assembly- Top Mount	C6	
21	Instructions for setting Rotary Limit Switch	C7	
Safety E	dges / Devices		
22	Safety Edge Coil Cord / Cord Reel Installation	D1	
~~	Inside Door W/ Motor Mounted Controller	D2	
23	Outside and Above Mounted Doors	Dz	
24	Miller Edge Installation Instructions	D3	
25	Setting Instructions for Featheredge Switch	D4	
_0 25	Top Safety Limit Switch Installation	D5	
_0 26	Top & Bottom Safety Limit Switch Installation	D6	
27	Inertia Brake Installation Instructions	D7	
Weather	Stripping		
28	SD Guide Weatherstrip Installation Instruction	E1	
29	Guide Weatherstripping	E2	
30	Brush Type Gasketing Installation Instruction	E3 / E4	
31	Florida Doors Optional Welded Wall Angle Installation	E5 / E6 / E7	
Mainten	ance Schedules		
32	Operating Instructions		
33	Curtain Care Instructions		
34	Maintenance Schedule		

# \*IMPORTANT\* 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.

#### CONCEALED LOSS OR DAMAGE:

THE TERM "CONCEALED LOSS OR DAMAGE" INDICATES THE LOSS OR DAMAGE WAS DISCOVERED AFTER, AND THE CARRIER RECEIVED A CLEAR DELIVERY RECEIPT WITH NO EXCEPTIONS NOTED.

- REPORTING CONCEALED LOSS OR DAMAGE IF LOSS OR DAMAGE IS DISCOVERED AFTER YOU HAVE GIVEN THE CARRIER A CLEAR DELIVERY RECEIPT, IMMEDIATELY NOTIFY THE CARRIER IN WRITING, OR IF BY PHONE CONFIRM IN WRITING LATER. HOLD THE PIECES IN THE CONDITION THEY WERE IN WHEN THE DAMAGE WAS DISCOVERED.
- INSPECTION BY THE CARRIER THE CARRIER WILL INSPECT THE FREIGHT WITHIN FIVE WORKING DAYS, AND WILL GIVE YOU A COPY OF THE INSPECTION REPORT FOR CLAIM SUPPORT. INCLUDE THIS INSPECTION REPORT WHEN FILING YOUR CLAIM.
- FAILURE TO INSPECT IF THE CARRIER FAILS TO INSPECT THE FREIGHT, YOU MUST MAKE THE INSPECTION AND RECORD ALL RELEVANT FACTS ABOUT THE DAMAGE. THIS INFORMATION MUST BE INCLUDED WHEN YOU FILE A CLAIM.

#### VISIBLE DAMAGE:

CAREFULLY CHECK ALL PIECES FOR ANY VISIBLE SIGNS OF DAMAGE. IF A PACKAGE IS DAMAGED IT SHOULD BE OPENED IMMEDIATELY WITH THE DRIVER PRESENT. A JOINT INSPECTION OF THE PIECE(S) SHOULD BE MADE BY YOU AND THE DRIVER, AND A FULL/EXACT DESCRIPTION OF THE INSPECTION SHOULD BE WRITTEN ON BOTH THE CARRIER'S AND YOUR COPY OF THE DELIVERY RECEIPT. BE SURE THE DRIVER SIGNS AND DATES YOUR COPY.

WHEN NOTING DAMAGE ON A DELIVERY RECEIPT, IT IS NOT RECOMMENDED THAT YOU ONLY USE THE WORD "DAMAGE". THIS IS A GENERAL TERM THAT DOES NOT PROPERLY SUPPORT YOUR CLAIM. WRITE THE EXACT NATURE (SCRATCHED, BROKEN, BENT OR DENTED) AND THE EXTENT OF DAMAGE ON BOTH COPIES.

#### INCOMPLETE DELIVERY/SHORTAGES:

CHECK FOR A SHORTAGE AS GOODS ARE BEING OFFLOADED. COUNT THE PIECES, AND MAKE A WRITTEN TALLY WHEN A LARGE NUMBER OF ITEMS ARE BEING RECEIVED. KEEP THE SHIPMENT TOGETHER UNTIL UNLOADING IS COMPLETE IN CASE A RECOUNT IS NECESSARY. IF THERE IS A DISCREPANCY, DESCRIBE IT EXACTLY ON THE CARRIER'S DELIVERY RECEIPT AND YOUR COPY OF THE DELIVERY RECEIPT BEFORE SIGNING FOR THE GOODS. CHECK THE LABELS ON ALL PIECES TO BE CERTAIN THAT THEY ARE YOURS.

#### MITIGATION OF LOSS:

THE FACT THAT GOODS ARE DAMAGED OR SHORT DOES NOT JUSTIFY YOUR REFUSAL TO ACCEPT THE SHIPMENT, NOR DOES ACCEPTANCE OF DAMAGED OR SHORT DELIVERY RELEASE THE CARRIER FROM COVERING REPLACEMENT MATERIAL COST. WHENEVER PRACTICAL, PRODUCT SHOULD BE ACCEPTED AND ALL NECESSARY STEPS SHOULD BE TAKEN TO MINIMIZE THE LOSS. A CLAIM SHOULD THEN BE FILED FOR THE COST OF REPAIRS AND/OR REPLACEMENT OF MATERIAL SHORT OR DAMAGED BEYOND REPAIR.

#### TIME LIMIT / WHO MAY FILE CLAIM:

CARRIERS SPECIFY THAT CLAIMS MUST BE FILED AFTER THE DELIVERY HAS BEEN MADE, HOWEVER THE QUICKER THIS IS DONE THE BETTER YOUR CHANCES OF BEING REIMBURSED. EVERY CARRIER HAS THEIR OWN POLICY FOR DURATION AFTER DELIVERY FOR ACCEPTING CLAIMS. CONSULT THE CARRIER FOR THEIR POLICY. A CLAIM MAY BE FILED BY THE SHIPPER. THE CONSIGNEE OR A THIRD PARTY WHO MAY HAVE PAID THE FREIGHT CHARGES.

#### **RETURNING DAMAGED MATERIAL:**

IF DAMAGED TO THE EXTENT 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 DROP TEST, RESET 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".
- 4) SHOULD THERE BE ANY DISCREPANCIES IN THE JOB CONDITIONS OR MANUFACTURED MATERIALS, CONTACT THE <u>COOKSON COMPANY, INC.</u> IN WRITING OR BY CALLING <u>1-800-294-4358</u> FOR WESTERN U.S. AND CANADA OR <u>1-800-390-8590</u> FOR EASTERN U.S. AND CANADA. IF DOOR WAS PURCHASED BY A COOKSON DISTRIBUTOR AND SOLD TO ANOTHER PARTY THEY SHOULD CONTACT THE DISTRIBUTOR FOR WARRANTY OR REPAIR RIGHTS.

# 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) MAKE CERTAIN THAT THE PROPER AMOUNT OF TENSION HAS BEEN APPLIED TO THE TORSION SPRINGS, IN ORDER TO PROPERLY COUNTERBALANCE THE WEIGHT OF THE CURTAIN.
- 2) ASSURE YOURSELF THAT THE TENSION WHEEL IS SECURELY FASTENED IN PLACE.
- 3) ASSURE YOURSELF THAT SPROCKETS OR GEARS REQUIRING KEYS HAVE THE CORRECT KEYS INSTALLED AND DRIVE SHAFT SPROCKETS OR GEARS ARE RETAINED BY COTTER PINS.
- 4) RECHECK THE SETSCREWS (ONE OVER KEY THE OTHER LOCATED AT 90° FROM KEY) IN EACH SPROCKET OR GEAR FOR TIGHTNESS.
- 5) CHECK ALL FASTENERS HOLDING GUIDES TO BUILDING STRUCTURES.
- 6) CHECK ALL FASTENERS USED IN ASSEMBLING DOOR COMPONENTS.
- 7) INSTRUCT OWNERS OR HIS/HER REPRESENTATIVE IN THE PROPER METHOD OF OPERATING THIS DOOR.







# **FASTENER TABLE**

# NOTE: If doors are windload tested / certified refer to specific approval documentation for required mounting conditions/fasteners.

TYPE OF CONSTRUCTION TO WHICH FASTENER EMBEDS	TYPE OF FASTENER TO USE	HOLE SIZE (DRILL DIA.)	TAP SIZE (IF REQ'D)	DEPTH OF HOLE
MOOD	Ø1/2" X 3" LAG BOLT	Ø5/16"		2-1/2" MAX
VVOOD	Ø5/8" X 3-1/2" LAG BOLT	Ø7/16"		3" MAX
	Ø1/2" X 5-1/2" WEDGE ANCH.	Ø1/2" CARBIDE		4" MIN
CONCRETE	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	Ø5/8" X 4-1/4" SLEEVE ANCH. (Ø1/2" BOLT)	Ø5/8"		4" MIN
OR BRICK	Ø3/4" X 6-1/4" SLEEVE ANCH. (Ø5/8" BOLT)	Ø5/8"		5" MIN
	Ø1/2" BOLT	Ø27/64"	1/2"-13UNC	
STEEL	Ø5/8" BOLT	Ø17/32"	5/8"-11UNC	
	Ø3/4" BOLT	Ø21/32"	3/4"-10UNC	

NOTE: See page 4 if the guides are to be welded to the jambs. NOTE: See page 31 for mounting of Florida Aprroved Doors.

# **GUIDE GROOVE DIMENSION TABLE**

SLAT NO.	5	4	45
SLAT PROFILE			25"
DIM "A"	1"	1 1/8"	1 1/4"































## **INSTRUCTIONS FOR SETTING ROTARY LIMIT SWITCH**

### CAUTION: ONLY ADJUST THE ROTARY LIMIT SWITCH WITH THE POWER "OFF". ONLY TRAINED PERSONNEL SHOULD SET OR ADJUST THE LIMIT SWITCH.

- 1) USING THE MANUAL OPERATOR, LOWER OR RAISE THE CURTAIN TO THE MIDPOINT OF THE OPENING.
- 2) OPEN THE LIMIT SWITCH BOX AND IDENTIFY ALL PARTS: (A) DETENT PLATE (B) CAM NUT (C) BASIC SWITCHES
- 3) DEPRESS THE SPRING LOADED DETENT PLATE AND ROTATE EACH CAM NUT APPROXIMATELY 1/8" FROM THE BASIC SWITCHES AS SHOWN BELOW.



- 4) APPLY POWER TO THE MOTOR AND TEST THE OPERATION OF THE DOOR. AS THE DOOR IS OPENING THE "OPEN" CAM NUT SHOULD BE TRAVELING TOWARDS THE "OPEN" BASIC SWITCH. AS THE DOOR IS CLOSING THE "CLOSE" CAM NUT SHOULD BE TRAVELING TOWARDS THE "CLOSE" BASIC SWITCH. THE CAM NUTS ARE DESIGNED TO ACTIVATE THE BASIC SWITCHES AND TERMINATE THE TRAVEL OF THE DOOR.
- 5) <u>IMPORTANT</u>: CHECK THAT THE MOTOR IS CORRECTLY WIRED IN REGARDS TO ROTATION AND DIRECTION. OPERATE THE OPEN AND CLOSE FUNCTIONS. IF THE MODE OF OPERATION IS INCORRECT (WHEN THE "OPEN" FUNCTIONS OF THE CONTROL STATION MAKES THE DOOR CLOSE OR THE "CLOSE" FUNCTIONS OF THE CONTROL STATION MAKES THE DOOR OPEN) OR THE ROTATION DIRECTION OF THE CAM NUT IS INCORRECT (CAM NUT TRAVELS TOWARD THE "OPEN" BASIC SWITCH WHEN CLOSING AND THE "CLOSE" BASIC SWITCH WHEN OPENING) DISCONTINUE OPERATION OF THE DOOR AND CHECK THE WIRING. ALL WIRING MUST BE CORRECT BEFORE PROCEEDING.
- 6) ONCE THE CORRECT ROTATION AND ORIENTATION OF THE CONTROL FUNCTIONS AND BASIC SWITCHES HAS BEEN DETERMINED, PROCEED WITH THE FINALIZED SETTING OF THE ROTARY LIMIT SWITCH.
- 7) TURN POWER OFF. WITH THE MANUAL OPERATOR LOWER THE DOOR TO THE FULLY CLOSED POSITION. ROTATE THE "CLOSE" CAM NUT TOWARD THE "CLOSE" BASIC SWITCH UNTIL THE SWITCH CLICKS. THE "CLOSE" BASIC SWITCH IS NOW SET. RAISE THE DOOR TO THE FULLY OPEN POSITION. ROTATE THE "OPEN" CAM NUT TOWARD THE "OPEN" BASIC SWITCH UNTIL THE SWITCH CLICKS. THE OPEN BASIC SWITCH IS NOW SET.
- 8) MAKE SURE THAT THE DETENT PLATE IS FULLY ENGAGED IN THE SLOTS OF EACH CAM NUT, REPLACE THE COVER ON THE LIMIT SWITCH AND APPLY POWER TO THE MOTOR OPERATOR TO TEST THE OPERATION OF THE DOOR. IF FURTHER FINE TUNING ADJUSTMENTS ARE REQUIRED MAKE SURE THAT THE POWER IS OFF BEFORE ADJUSTMENTS ARE MADE.













## GUIDE WEATHERSTRIP INSTALLATION INSTRUCTIONS

- 1) THIS DOOR(S) IS EQUIPPED WITH GUIDE WEATHERSTRIPPING, WHICH IS SHIPPED LOOSE AND PACKAGED WITH THE HOOD OR IN A SEPARATE TUBE. THE WEATHERSTRIPPING CONSISTS OF A PLASTIC EXTRUSION WITH A VINYL FLAP. IT IS DESIGNED TO BE INSTALLED WHEN THE DOOR(S) IS INSTALLED.
- 2) PRIOR TO INSTALLATION OF THE WEATHERSTRIP, MEASURE THE GUIDE'S CURTAIN SLOT THROUGH THEIR FULL HEIGHT. THESE SLOTS ARE FACTORY PRESET, BUT MIGHT BE ALTERED BY JARRING DURING SHIPMENT OR INSTALLATION. COMPARE THE MEASUREMENTS TO THE ILLUSTRATIONS BELOW. TO OPEN A TIGHT SLOT, LOOSEN THE GUIDE BOLTS AND MOVE THE GUIDE ANGLES UNTIL THE PROPER SLOT DIMENSION IS OBTAINED AND RETIGHTEN THE BOLTS.

NOTICE: A RUBBER MALLET SHOULD BE USED TO PROPERLY INSTALL THE WEATHERSTRIP. DO NOT INSTALL THE WEATHERSTRIP USING A STEEL HAMMER. USE CAUTION WHEN INSTALLING THE WEATHERSTRIP BELOW FREEZING TEMPERATURES, AS IT MAY CRACK IF HANDLED OR INSTALLED IMPROPERLY. IF POSSIBLE STORE THE WEATHERSTRIP ABOVE FREEZING TEMPERATURES UNTIL INSTALL.

- 3) THE WEATHERSTRIP SHOULD COVER FROM THE BOTTOM OF THE BRACKET TO THE BOTTOM OF THE GUIDE. CHECK THIS BY EITHER MEASURING IT OR HOLDING IT UP TO THE GUIDE. IF THE WEATHERSTRIP DOES NOT COVER FROM THE GROUND TO THE BOTTOM OF THE BRACKET, A SPLICED SECTION IS NEEDED. PROCEED TO STEP 6. IF NO SPLICE IS NEEDED PROCEED TO STEP 4.
- 4) START AT THE TOP OF THE GUIDE AND WORK DOWNWARD. BE SURE THAT THE WEATHERSTRIP IS FULLY SEATED ON THE ANGLE. <u>NOTE</u>: STARTING AT THE BOTTOM MAY BE DIFFICULT, AS THE FLEXIBILITY OF THE MATERIAL WILL CAUSE IT TO PULL AWAY FROM THE GUIDE AS IT IS BEING INSTALLED.
- 5) RUN THE DOOR UP AND DOWN A FEW TIMES TO ENSURE THAT THE WEATHERSTRIP IS INSTALLED PROPERLY.







WEATHERSTRIP WITH TUBULAR BOTTOM BAR

E1

WEATHERSTRIP WITH ANGLE BOTTOM BAR

## GUIDE WEATHERSTRIP INSTALLATION INSTRUCTIONS (CONT)

NOTICE: A RUBBER MALLET SHOULD BE USED TO PROPERLY INSTALL THE WEATHERSTRIP. DO NOT INSTALL THE WEATHERSTRIP USING A STEEL HAMMER. USE CAUTION WHEN INSTALLING THE WEATHERSTRIP BELOW FREEZING TEMPERATURES, AS IT MAY CRACK IF HANDLED OR INSTALLED IMPROPERLY. IF POSSIBLE STORE THE WEATHERSTRIP ABOVE FREEZING TEMPERATURES UNTIL INSTALL.

6) A CRAFTSMAN HANDI-CUT UTILITY CUTTER IS RECOMMENDED (OR TIN SNIPS OR OTHER CUTTING DEVICE) FOR CUTTING THE WEATHERSTRIP. TRIM THE BOTTOM OF THE UPPER PIECE AT A 45 DEGREE ANGLE FROM THE CHANNEL THROUGH TO THE WIPER. TRIM THE TOP OF THE LOWER PIECE AT A 45 DEGREE ANGLE FROM THE WIPER AND CHANNEL. SEE FIGURE 38 FOR HOW TO TRIM THE WEATHERSTRIP. TAPE OR OTHER ADHESIVE CAN BE USED TO JOIN THE SPLICED WEATHERSTRIP, IF DESIRED.







# **OPERATING INSTRUCTIONS**

**PUSH-UP** - BE SURE THE ROLLING DOOR IS UNLOCKED, GRIP THE CENTER OF THE BOTTOM BAR & SMOOTHLY LIFT IN AN UPWARD MOTION. TO CLOSE, GENTLY PULL THE BOTTOM BAR DOWN TAKING CAUTION NOT TO LET THE DOOR FALL.





**CHAIN -** PULL THE OUTERMOST PART OF THE CHAIN LOOP (FARTHEST AWAY FROM THE DOOR) VERTICALLY DOWNWARD TO OPEN. TO CLOSE, PULL THE INNERMOST PART OF THE CHAIN LOOP (CLOSEST TO THE DOOR) VERTICALLY DOWNWARD. DO NOT LET THE DOOR FALL; ALWAYS CHAIN IT DOWN, MAINTAINING CONTROL OF THE CHAIN. USE BOTH HANDS TO CONTROL THE DESCENT OF THE DOOR.

**CRANK -** INSERT TIP OF WINDING SHAFT INTO THE HOOK LOCATED ON THE DRIVE BRACKET. HOLDING THE LOWER OF THE CRANK ROD SECURE WITH ON HAND, CRANK THE MIDDLE PIECE CLOCKWISE WITH THE OTHER HAND. REVERSE THIS ACTION TO CLOSE THE DOOR.





**CRANK BOX -** WITH A SECURE GRIP ON THE HANDLE, CRANK THE HANDLE IN A CLOCKWISE DIRECTION TO OPEN THE DOOR. CRANK COUNTERCLOCKWISE TO CLOSE THE DOOR.

**MOTOR -** PRESS THE OPEN BUTTON TO OPEN THE DOOR, PRESS THE STOP BUTTON TO STOP THE MOVEMENT OF THE DOOR, AND PRESS THE CLOSE BUTTON TO CLOSE THE DOOR.



WARNING: WHEN OPERATING A ROLLING DOOR ALWAYS MAKE SURE THERE ARE NO OBSTRUCTIONS BLOCKING THE PATH OF MOVEMENT. KEEP FEET AND OTHER LIMBS AWAY FROM THE DOOR WHILE IT IS IN MOTION. WHEN OPENING A PUSH-UP OPERATED DOOR, USE CAUTION TO LIFT WITH YOUR LEGS AND NOT YOUR BACK. THE MANUFACTURER AND AFFILIATES SHALL NOT BE RESPONSIBLE FOR INJURY OR DAMAGE DUE TO FAILURE TO FOLLOW OPERATING INSTRUCTIONS.

## **CURTAIN CARE AND TOUCH-UP INSTRUCTIONS**

WHILE ROLLING 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.

## **MAINTENANCE INSTRUCTIONS**

### REGULAR SCHEDULED MAINTENANCE:

ALL ROLLING DOORS SHOULD BE INSPECTED ON A REGULAR BASIS TO ENSURE PROPER AND SAFE OPERATION. THE FREQUENCY OF THE INSPECTION IS DEPENDANT ON THE USAGE OF THE DOOR BUT ALL DOORS SHOULD BE INSPECTED AT LEAST ONCE A MONTH. THE INSPECTION SHOULD CONSIST OF THE FOLLOWING:

- A. VISUAL INSPECTION
  - 1) BENT BOTTOM BARS
  - 2) DAMAGED SLATS
  - 3) PINCHED GUIDES
  - 4) DENTED OR MISSING HOOD
- **B. CHECK ALL FASTENERS** 
  - 1) WALL ATTACHMENT BOLTS
  - 2) GUIDE ASSEMBLY BOLTS
  - 3) BRACKET ATTACHMENT BOLTS
  - 4) SET SCREWS ON GEARS AND SPROCKETS
  - 5) TENSION WHEEL SECURE
  - 6) KEYS SECURE
- C. CHECK OPERATING ASSEMBLIES
  - 1) OPERATING ASSEMBLY
  - 2) GOVERNOR ASSEMBLY
  - 3) BARREL ASSEMBLY
- D. LUBRICATE
  - 1) ALL PIVOT JOINTS
  - 2) SHAFTS
  - 3) ROLLER CHAIN
- E. CHECK NORMAL OPERATION
  - 1) OPERATION
  - 2) SPRING TENSION
  - 3) BALANCE

# TROUBLESHOOTING GUIDE

### NOTE: FOR MAINTENANCE OR REPAIR OF THIS PRODUCT, PLEASE CONSULT YOUR LOCAL AUTHORIZED DISTRIBUTOR

### BARREL

PROBLEM	CAUSE	CORRECTION
DOOR STARTS DOWN THEN BINDS	<ol> <li>1) CURTAIN BINDS IN GUIDES.</li> <li>2) SCREWS CONNECTING CURTAIN TO BARREL TOO LONG AND INTERFERING WITH TORSION SPRING.</li> <li>3) INCORRECT BARREL FOR OPENING.</li> <li>4) INTERNAL INTERFERENCE INSIDE BARREL.</li> </ol>	<ol> <li>INCREASE GUIDE GROOVE OPENING. CURTAIN MUST BE LOOSE IN GUIDES.</li> <li>REPLACE MACHINE SCREWS WITH SHORTER LENGTH. THEY MUST NOT PROTRUDE PAST BARREL WALL.</li> <li>CHECK DOOR MARK. LOCATE CORRECT BARREL.</li> <li>CONSULT DISTRIBUTOR.</li> </ol>
TENSION WHEEL TURNS FREELY	1) SPRING BROKEN. 2) BROKEN SHAFT TIE. 3) BROKEN BARREL TIE.	<ol> <li>CONSULT DISTRIBUTOR.</li> <li>CONSULT DISTRIBUTOR.</li> <li>CONSULT DISTRIBUTOR.</li> </ol>
TENSION SHAFT SLIPPED INTO BARREL.	1) DRIVE PIN FAILURE - SHIPPING DAMAGE. 2) BEARING FAILURE - SHIPPING DAMAGE.	1) CONSULT DISTRIBUTOR. 2) CONSULT DISTRIBUTOR.
DOOR LOSES TENSION (SPRUNG DOORS ONLY)	<ol> <li>1) PAWL SLIPPING ON INTERNAL TENSION WHEEL BECAUSE PAWL IS BINDING ON ATTACHING RIVET.</li> <li>2) DOOR DAMAGED CAUSING INCREASED DRAG.</li> <li>3) HOOPS SLIPPING.</li> </ol>	<ol> <li>LOOSEN PAWL PIVOT POINT.</li> <li>CONSULT DISTRIBUTOR.</li> <li>TIGHTEN HOOPS.</li> </ol>
DRIVE SHAFT CROOKED	1) BROKEN WELD OR SHIPPING DAMAGE.	1) CONSULT DISTRIBUTOR FOR DETERMINATION IF FIELD REPAIR IS POSSIBLE.
	CURTAI	N
PROBLEM	CAUSE	CORRECTION
CURTAIN ROLLS UP UNEVENLY	1) TOP SLAT NOT IN LINE. 2) BARREL NOT LEVEL.	1) LOOSEN TOP SCREWS AND STRAIGHTEN CURTAIN. 2) USE BUBBLE LEVEL TO LEVEL BARREL.
DOOR CURTAIN SEPARATES	1) FREIGHT DAMAGE.	1) CONSULT DISTRIBUTOR.
CURTAIN SEPARATES FROM BARREL	1) MACHINE SCREWS PULLED THRU TOP SLAT. 2) INTERLOCKS NOT INSTALLED ON MOTOR OPERATED DOOR.	<ol> <li>INSTALL WASHER UNDER HEAD OF SCREWS.</li> <li>INSTALL INTERLOCKS TO PREVENT MOTOR OPERATION WHEN DOOR IS LOCKED.</li> </ol>

		TROUBLESHOOT	ING GUIDE
	NOTE	FOR MAINTENANCE OR REPAIR CONSULT YOUR LOCAL AUTHO	OF THIS PRODUCT, PLEASE
L		CURTAIN (CO	ONT)
PROBLEM		CAUSE	CORRECTION
FINISH PROBLEM	ИS	1) DOOR CORRODES DUE TO ENVIRONMENTAL CONDITIONS.	1) CLEAN DOOR PERIODICALLY.
CURTAIN APPEA SAG AT CENTER	RS TO	<ul> <li>2) CENTER OF CURTAIN IS AGAINST</li> <li>BARREL AND EDGE OF CURTAIN IS</li> <li>PULLED TOWARD LINTEL AS IT</li> <li>ENTERS GUIDES.</li> <li>3) BARREL DEFLECTION OF WIDE</li> <li>DOORS. SHOULD NOT EXCEED .03</li> <li>INCHES PER FOOT OF OPERATING</li> </ul>	<ul> <li>2) CURVATURE OF CURTAIN MAKES IT APPEAR TO BE SAGGING WHILE IT IS ACTUALLY LEVEL. CHECK WITH CARPENTER'S LEVEL.</li> <li>3) CONSULT DISTRIBUTOR.</li> </ul>
		WIDTH.	1) CONSULT DISTRIBUTOR.
		BOTTOM B	
PROBLEM		CAUSE	CORRECTION
SAFETY EDGE N WORKING	от	<ol> <li>1) OPEN CIRCUIT IN BOTTOM BAR.</li> <li>CONFIRM THIS BY DISCONNECTING</li> <li>PLUG AT BOTTOM BAR AND INSERTING</li> <li>CONTINUITY CHECKER. IF PRESSING</li> <li>UP ON SAFETY EDGE DOES NOT</li> <li>CLOSE CIRCUIT, PROBLEM IS OPEN</li> <li>CIRCUIT IN BOTTOM BAR.</li> <li>2) OPEN CIRCUIT IN COIL CORD OR</li> <li>CORD REEL. CONFIRM THIS BY</li> <li>INSERTING VOLTMETER INTO PLUG.</li> <li>READING SHOULD BE 24VAC.</li> <li>3) DOOR LOCATED IN EXTREMELY WET</li> <li>OR FLOOD ENVIRONMENT.</li> </ol>	<ol> <li>DEFECTIVE SWITCH OR CONNECTION AT SWITCH TO PLUG. CHECK TO MAKE SURE ALL WIRES ARE SECURELY FASTENED. REPLACE SWITCH IF NECESSARY.</li> <li>REPLACE COIL CORD OR CORD REEL.</li> <li>BLIMINATE WATER. REPLACE SAFETY EDGE OR SAFETY EDGE SWITCH.</li> </ol>
LOCKS INOPERA	TIVE	<ol> <li>CAM OF CYLINDER NOT IN CORRECT POSITION.</li> <li>DAMAGE TO INTERNAL COMPONENTS</li> </ol>	<ol> <li>1) REPOSITION CYLINDER AND FIRMLY SECURE</li> <li>WITH SMALL SCREW LOCATED BELOW CYLINDER.</li> <li>2) REMOVE BOTTOM BAR FROM GUIDE. REPLACE</li> <li>LOCK MECHANISM.</li> </ol>
ELECTRICAL INT	ER- TIVE	<ol> <li>LOCK BOLT DOES NOT LINE UP WITH SWITCH ON GUIDE.</li> <li>INTERLOCK DOES NOT PREVENT MOTOR FROM OPERATING.</li> </ol>	<ol> <li>ADJUST SWITCH LOCATION WHERE IT IS MOUNTED ON GUIDES.</li> <li>DEFECTIVE SWITCH. CHECK ELECTRICAL CONNECTION AND REPLACE IF NECESSARY.</li> </ol>

# TROUBLESHOOTING GUIDE

### NOTE: FOR MAINTENANCE OR REPAIR OF THIS PRODUCT, PLEASE CONSULT YOUR LOCAL AUTHORIZED DISTRIBUTOR

### BRACKET

PROBLEM	CAUSE	CORRECTION
BRACKETS NOT PERPENDICULAR TO BARREL	1) WALL ANGLE FLANGE NOT SQUARE.	1) BRACE BRACKET INTO POSITION.
DRIVE CHAIN TENSION	1) SPROCKET POSITION OUT OF ADJUSTMENT.	1) TIGHTEN CHAIN BY SLIDING OPERATOR OR REMOVE LINK FROM CHAIN.
BINDING IN BEVEL GEAR BOX	1) LACK OF LUBRICATION.	1) LUBRICATE GEAR BOX.
	GUIDES	<u> </u>
PROBLEM	CAUSE	CORRECTION
CURTAIN BINDS IN GUIDE GROOVE	<ol> <li>1) INCORRECT GUIDE GROOVE OPENING.</li> <li>2) INCORRECT TIP-TO-TIP DIMENSION OF GUIDES.</li> </ol>	<ol> <li>1) REFER TO INSTALLATION INSTRUCTIONS AND ADJUST GUIDE GROOVE OPENING.</li> <li>2) REFER TO INSTALLATION INSTRUCTIONS FOR TIP-TO-TIP DIMENSION AND ADJUST GUIDE SPACING.</li> </ol>
	HOODS	
PROBLEM	CAUSE	CORRECTION
INCORRECT DIMENSIONS, MATERIAL OE END COVERS	1) ORDERING PROCESSING PROBLEM. OPENING.	1) GET ALL DIMENSIONS OF MATERIAL SUPPLIED AND CONSULT DISTRIBUTOR.
	MOTOR OPER	RATOR
PROBLEM	CAUSE	CORRECTION
EMERGENCY HAND CHAIN OR CRANK FAILS OR IS DIFFICULT TO OPERATE DOOR. (THIS IS NORMAL ON UN-SPRUNG DOORS)	<ol> <li>1) DOOR MAY BE JAMMED OR OBSTRUCTED.</li> <li>2) INCORRECT TENSION IN SPRING.</li> <li>3) DOOR MAY BE LOCKED.</li> <li>4) PROBLEM IN GEARBOX HOUSING.</li> </ol>	<ol> <li>1) REMOVE OBSTRUCTION.</li> <li>2) MAKE SURE THAT SPRING HAS CORRECT TENSION.</li> <li>3) CHECK TO SEE IF LOCK IS DISENGAGED.</li> <li>4) CONSULT DISTRIBUTOR.</li> </ol>
EMERGENCY HAND OR CRANK TURNS BUT DOES NOT TURN THE OUTPUT SHAFT OF GEAR BOX	1) KEYS FIXING GEARS TO SHAFTS ARE SHEARED.	1) CHECK KEYS AND KEYWAYS.
		37

NOTE	TROUBLESHOOT FOR MAINTENANCE OR REPAIR CONSULT YOUR LOCAL AUTHO	TING GUIDE R OF THIS PRODUCT, PLEASE DRIZED DISTRIBUTOR
FINISH PROBLEMS	1) DOOR CORRODES DUE TO ENVIRONMENTAL CONDITIONS.	1) CLEAN DOOR PERIODICALLY.
CURTAIN APPEARS TO SAG AT CENTER	<ul> <li>2) CENTER OF CURTAIN IS AGAINST</li> <li>BARREL AND EDGE OF CURTAIN IS</li> <li>PULLED TOWARD LINTEL AS IT</li> <li>ENTERS GUIDES.</li> <li>3) BARREL DEFLECTION OF WIDE</li> <li>DOORS. SHOULD NOT EXCEED .03</li> <li>INCHES PER FOOT OF OPERATING</li> <li>WIDTH.</li> </ul>	<ul> <li>2) CURVATURE OF CURTAIN MAKES IT APPEAR TO BE SAGGING WHILE IT IS ACTUALLY LEVEL. CHECK WITH CARPENTER'S LEVEL.</li> <li>3) CONSULT DISTRIBUTOR.</li> <li>1) CONSULT DISTRIBUTOR.</li> </ul>
MOTOR FAILS TO RUN OR CONTROL CIRCUIT FAILS TO ENERGIZE	<ol> <li>1) FUSES BLOWN OR CIRCUIT BREAKER TRIPPED.</li> <li>2) OPERATORS ARE PROTECTED FROM RUNNING IN OVERLOAD CONDITION BY THERMAL OVERLOAD DEVICES OF THE AUTOMATIC RESET TYPE.</li> <li>3) IF CONTACTS FOR MOTOR CONTROLLER ENERGIZE BUT MOTOR STILL FAILS TO OPERATE.</li> <li>4) PUSHBUTTONS ENERGIZE ON ONLY ONE SIDE OF THE CONTROL CONTACTS.</li> </ol>	<ol> <li>CHECK FUSE OR CIRCUIT BREAKER BOX.</li> <li>CONSULT DISTRIBUTOR.</li> <li>CONSULT DISTRIBUTOR.</li> <li>CHECK ALL ELECTRICAL CONNECTIONS FOR BROKEN OR LOOSE WIRES, ETC. CHECK ELECTRICAL CONNECTIONS FOR ANY OPTIONAL EQUIPMENT: CARD KEY, CYLINDER KEY SWITCH, PHOTO CELL, REVERSING BOTTOM BAR OR SPECIAL INTERLOCKS.</li> </ol>
MOVEMENT OF THE DOOR IS IN AGREEMENT WITH PUSHBUTTON STATION, BUT THE LIMIT SWITCH DOES NOT STOP DOOR	1) ELECTRICAL CONNECTIONS ARE SWITCHED.	1) CHECK ELECTRICAL CONNECTIONS AND JUMPER WIRE LEAD BETWEEN THE MICRO SWITCHES. CONSULT DISTRIBUTOR.
LIMIT SWITCH DOES NOT HOLD ITS SETTING.	<ol> <li>SPROCKET SHAFT END PLAY TOO LARGE.</li> <li>DRIVE CHAIN LOOSE.</li> <li>LIMIT SWITCH DETENT PLATE LOOSE.</li> </ol>	<ol> <li>1) END PLAY SHOULD NOT EXCEED 1/32".</li> <li>2) CHECK DRIVE CHAIN.</li> <li>3) THE PLATE MUST ENGAGE BOTH TRAVELING CAMS.</li> </ol>
ELECTRICAL CONTROL CIRCUIT ENERGIZES BUT THE MOTOR DOES NOT RUN OR MOTOR OVERLOADS TRIP.	1) INCORRECT WIRING.	1) CONSULT DISTRIBUTOR.

CAUSE	
	CORRECTION
1) INCORRECT ELECTRICAL POWER TO MOTOR.	1) CHECK VOLTAGE AGAINST THE CORRECT VOLTAGE STAMPED ON THE MOTOR. IF THE VOLTAGE IS 10% BELOW THE RATING, THERE NOT SUFFICIENT VOLTAGE TO RUN THE MOT
1) INCORRECT WIRING.	1) CONSULT DISTRIBUTOR.
	1) INCORRECT ELECTRICAL POWER TO MOTOR. 1) INCORRECT WIRING.