END USER:
DEALER:
DOOR SERIAL No.:
DOOR MODEL: EPR-10
DOOR SIZE: WIDE x HIGH
DOOR HANDING:
INSIDE TO INSIDE MEASUREMENT:
(SEE STEP 2) OPENING WIDTH + 8" (203)
STEP 1, VERIFY OPENING & CLEARANCES
DIMENSIONS IN PARENTHESES ARE IN MILLIMETRES

1. Use the shop drawing to verify the opening size and assure all clearances are adequate prior to starting with the installation of the door.

2. Using a water hose or transit, mark a level line on each door jamb approximately 4 to 5 feet (1200 to 1500) above the floor.

3. Measure the distance from the floor to the level line on each jamb. If required, place an adequate shim, minimum 4" x 4" (100 x 100), on the floor by one jamb to acquire the same vertical dimension to both lines.
STEP 2A, INSTALL DOOR MOUNTING ANGLES

STEEL FRAMED BUILDINGS ONLY
(FOR MASON WALLS, SEE STEP 2B)

DIMENSIONS IN PARENTHESES ARE IN MILLIMETRES

(i) FOR STEEL FRAMED BUILDINGS, STAND THE DOOR MOUNTING ANGLE AGAINST THE WALL WITH THE 6" (152)
LEG PROTRUDING OUTWARD AND THE 4" (102) LEG EXTENDING TOWARDS THE OPENING, THE LARGE Ø 2" (51)
HOLE MUST BE ABOVE THE LINTEL HEIGHT.

(ii) WITH THE 4" (102) LEG SPACED ± 1/8" (6 to 10) FROM THE JAMB, WELD THE INSIDE EDGE TO THE JAMB STEEL
USING X 7/8" (6) x 3" (51) LONG FILLETS ON 24" (610) CENTRES. THE DOOR MOUNTING ANGLE MUST BE INSTALLED
PLUMB WITHIN ± 1/8" (6).

(iii) INSTALL THE SECOND DOOR MOUNTING ANGLE USING A HORIZONTAL MEASUREMENT BETWEEN THE
INSIDE SURFACES OF THE TWO 6" (152) ANGLE LEGS. THIS MEASUREMENT MUST BE THE MANUFACTURED
OPENING WIDTH PLUS 8" (203). CONFIRM THIS MEASUREMENT ON 48" (1220) VERTICAL INCREMENTS UP TO
THE LENGTH OF THE ANGLE. USE X 7/8" (6) x 3" (51) LONG FILLETS ON 24" (610) CENTRES.

(iv) PLUG WELD THE 4" (102) LEG TO THE MOUNTING STEEL WHERE HOLES ARE PROVIDED. THE DOOR
MOUNTING ANGLE MUST BE SUPPORTED ABOVE THE LINTEL. IF MOUNTING STRUCTURE DOES NOT EXIST
ABOVE THE LINTEL, INSTALL ADEQUATE BRACING.

IMPORTANT: THIS DIMENSION MUST BE EQUAL TO OR ¥ (6) GREATER
THAN OUTSIDE TO OUTSIDE DIMENSION OF ENDPLATES.

REV. DATE: APR. 27, 2006
DRAWING No.: D-632-0002
STEP 2B, INSTALL DOOR MOUNTING ANGLES

MASON WALLED BUILDINGS

DIMENSIONS IN PARENTHESIS ARE IN MILLIMETRES

ANGLE ABOVE LINTEL MUST BE ADEQUATELY SECURED TO STRUCTURE

6" (152) ANGLE LEG PROTRUDES FROM WALL

Ø 2" (51) HOLE ABOVE LINTEL HEIGHT

LINTEL

THRU BOLT HOLES

4" (102) ANGLE LEG AGAINST WALL

INSIDE TO INSIDE DIMENSION OPENING WIDTH PLUS 8" (203)

IMPORTANT: THIS DIMENSION MUST BE EQUAL TO OR ½" (6) GREATER THAN OUTSIDE TO OUTSIDE DIMENSION OF ENDPANES

(i) FOR BRICK OR CONCRETE BUILDINGS, STAND THE DOOR MOUNTING ANGLE AGAINST THE WALL WITH THE 6" (152) LEG PROTRUDING OUTWARD AND THE 4" (102) LEG EXTENDING AWAY FROM THE OPENING. THE LARGE Ø 2" (51) HOLE MUST BE ABOVE THE LINTEL HEIGHT.

(ii) WITH THE MOUNTING ANGLE SPACED 4" (102) FROM THE JAMB, FASTEN TO THE WALL WITH APPROPRIATE FASTENERS. THE DOOR MOUNTING ANGLE MUST BE INSTALLED PLUMB WITHIN ⅛" (6). APPROPRIATE FASTENERS ARE MINIMUM Ø ⅜" (10) WEDGE ANCHORS FOR SOLID CONCRETE AND MINIMUM Ø ⅛" (3) THREADED ROD, THRU BOLTED FOR MOST OTHER MATERIALS. USE APPROPRIATE BACKING PLATES FOR THRU BOLTING.

(iii) INSTALL THE SECOND DOOR MOUNTING ANGLE USING A HORIZONTAL MEASUREMENT BETWEEN THE INSIDE SURFACES OF THE TWO 6" (152) ANGLE LEGS. THIS MEASUREMENT MUST BE THE MANUFACTURED OPENING WIDTH PLUS 8" (203). CONFIRM THIS MEASUREMENT ON 48" (1220) VERTICAL INCREMENTS UP THE LENGTH OF THE ANGLE.

(iv) THE DOOR MOUNTING ANGLE MUST BE SUPPORTED ABOVE THE LINTEL. IF MOUNTING STRUCTURE DOES NOT EXIST, INSTALL ADEQUATE BRACING.
STEP 3, INSTALL IDLER BARREL

DIMENSIONS IN PARENTHESES ARE IN MILLIMETRES

1. Position the idler barrel by placing the shaft ends through the Ø 2" (51) hole in each door mounting angle.

2. Slide a flange bearing onto each end of the idler barrel and fasten to the door mounting angle using Ø 3/8" (12) bolts. Install the nuts to the outside of the mounting angles.

3. Centre the idler barrel and tighten the setscrews.
STEP 4, INSTALL LINTEL SEAL
DIMENSIONS IN PARENTHESIS ARE IN MILLIMETRES

(i) POSITION THE LINTEL SEAL AGAINST THE HEADER BETWEEN THE TWO (2) DOOR MOUNTING ANGLES. (THE LINTEL SEAL IS FABRICATED IN MULTIPLE PIECES ON WIDE DOORS)

(ii) PUSH THE RETAINER UPWARDS UNTIL THE BRUSH FITS SNUGGLY AGAINST THE BOTTOM OF THE IDLER BARREL.

(iii) FASTEN THE RETAINER TO A STEEL LINTEL WITH THE SELF-TAPPING SCREWS PROVIDED OR APPROPRIATE FASTENERS FOR CONCRETE BULKHEADS ON APPROXIMATELY 18" (460) CENTERS.

COOKSON

REV. DATE: MAY 27, 2005
DRAWING No.: D-632-0004
STEP 5, INSTALL HEADER ASSEMBLY

(LEFT HAND DOOR SHOWN)

DIMENSIONS IN PARENTHESIS ARE IN MILLIMETRES

IMPORTANT: DOOR MUST BE RIGGED BY SLINGING THE DRIVE BARREL. DO NOT LIFT THE DOOR BY THE ENDPLATES.

THE BOTTOM BAR MUST BE ROTATED SLIGHTLY TOWARDS THE TRUSS WHEN RIGGED FOR LIFTING.

CAUTION: DO NOT REMOVE THE ROPE SECURING THE RUBBER CURTAIN TO THE DRIVE BARREL UNTIL INSTRUCTED TO DO SO.

(i) POSITION THE HEADER ASSEMBLY ON THE FLOOR IN FRONT OF THE OPENING. LOOSEN THE TWO (2) TRUSS BOLTS ON THE DRIVE ENDPLATE AND TIP THE WALL SIDE OF THE ENDPLATE INWARD TO ALLOW SOME CLEARANCE BETWEEN THE ENDPLATE AND DOOR MOUNTING ANGLE.

(ii) RIG AND LIFT THE HEADER ASSEMBLY INTO POSITION AND FASTEN TO THE DOOR MOUNTING ANGLE WITH Ø 8½" (16) BOLTS. INSTALL NUTS ON THE OUTSIDE TO PREVENT CURTAIN CONTACT. ALLOW THE ENDPLATES TO SETTLE INTO THE LOWEST POSITION OF THE SLOTS AND TIGHTEN FASTENERS.

(iii) TIGHTEN TRUSS BOLTS.

(iv) ALLOW BOTTOM BAR TO SWING INTO THE BOTTOM, DEAD CENTRE POSITION WHEN REMOVING THE RIGGING STRAPS.
STEP 6, INSTALL OPERATOR

(LEFT HAND DOOR SHOWN)

DIMENSIONS IN PARENTHESES ARE IN MILLIMETRES

IMPORTANT: DO NOT ENGAGE MANUAL CHAIN HOIST UNTIL SPRINGS HAVE BEEN CHARGED.

(i) POSITION AND BOLT THE OPERATOR TO THE MOUNTING PLATE ON THE LOWER HOLE SET. TIGHTEN THE MOUNTING BOLTS WITH THE OPERATOR COMPLETELY RAISED IN THE ADJUSTMENT SLOTS.

(ii) MOUNT THE DOOR SPROCKET WITH KEYSTOCK TO THE DRIVE BARREL SHAFT WITH THE HUB AWAY FROM THE ENDPLATE.

(iii) IF NOT PRE-MOUNTED, MOUNT THE OPERATOR SPROCKET ON THE OPERATOR OUTPUT SHAFT. ALIGN THE SPROCKETS TO EACH OTHER AND AS CLOSE AS POSSIBLE TO THE ENDPLATE. ASSURE ADEQUATE CLEARANCE BETWEEN CHAIN AND MOUNTING PLATE. TIGHTEN SETSCREWS.

(iv) SIZE AND INSTALL THE DRIVE CHAIN. LOOSEN THE MOUNTING BOLTS AND LOWER THE OPERATOR TO SET CHAIN TENSION. PROPER CHAIN TENSION IS ABOUT 3/32 (6) SLACK. TIGHTEN THE MOUNTING BOLTS.

(v) INSTALL THE HAND CHAIN AND DISCONNECT LEVER. DO NOT ENGAGE UNTIL SPRINGS HAVE BEEN CHARGED.

(vi) INSTALL THE "J" BOLT ON THE DOOR MOUNTING ANGLE (HOLE PROVIDED) ABOUT 48" (1220) FROM THE FLOOR. THE "J" BOLT IS TO PROTRUDE AWAY FROM THE DOOR OPENING TO ALLOW THE HAND CHAIN TO BE HELD CLEAR OF THE DOOR DURING ELECTRICAL OPERATION.
STEP 7, PRE-CHARGE SPRINGS

(LEFT HAND DOOR SHOWN)

DIMENSIONS IN PARENTHESES ARE IN MILLIMETRES

CAUTION: TORSION SPRINGS STORE MECHANICAL ENERGY AND CAN BE EXTREMELY DANGEROUS. THIS PORTION OF THE INSTALLATION SHOULD BE CARRIED OUT BY A QUALIFIED DOOR SERVICE TECHNICIAN.

(i) FROM THE DOOR TAG, OBTAIN THE QUANTITY FOR BOTH STRETCH AND PRECHARGE. THESE QUANTITIES APPLY TO EACH SPRING ASSEMBLY ON THE DOOR REGARDLESS OF THE TOTAL NUMBER OF SPRINGS.

(ii) ASSURING THE SPRING IS FULLY COMPRESSED, MEASURE THE STRETCH DISTANCE (inches) ALONG THE SHAFT FROM THE WINDING HUB. MARK THE SHAFT AT THIS DIMENSION FROM ALL WINDING HUBS.

(iii) USE A 3/4" (19) DIAMETRE x MINIMUM 30" (760) LONG WINDING BAR TO ROTATE THE WINDING HUB UPWARDS. ALLOW THE WINDING HUB TO SLOWLY ROTATE BACKWARDS FROM ITS OWN ENERGY. THE PRE-CHARGE TURNS MUST BE MEASURED FROM THE INITIAL LOCATION.

(iv) MARK A HORIZONTAL LINE ALONG THE SPRING TO LATER REFERENCE THE NUMBER OF TURNS IF REQUIRED.

(v) PRE-CHARGE THE SPRINGS UPWARD THE REQUIRED NUMBER OF TURNS (COMPLETE REVOLUTIONS) BY INDEXING TWO WINDING BARS ON 90 DEGREE INCREMENTS.

(vi) AFTER COMPLETING THE PRE-CHARGE, STRETCH THE SPRING TO THE PREMEASURED MARK ON THE SHAFT. ADD ENOUGH PRE-CHARGE TO ALIGN THE NEXT SETSCREW WITH THE GROUND FLAT ON THE SHAFT AND TIGHTEN ALL SETSCREWS.

(vii) COMPLETE THIS PROCEDURE WITH ALL SPRINGS.

(viii) WITH PRE-CHARGE COMPLETE, VERIFY COUNTERBALANCE BY MANUALLY OSCILLATING THE DRIVE BARREL. A PROPER BALANCE WILL ALLOW YOU TO ALTERNATE THE CHAIN TENSION AT THE OPERATOR FROM TOP TO BOTTOM. ADJUST PRE-CHARGE AS REQUIRED.

(ix) ONCE PROPERLY BALANCED, REMOVE THE ROPES SECURING THE CURTAIN TO THE DRIVE BARREL. REMAIN CLEAR OF THE BOTTOM BAR AS IT FALLS INTO POSITION AGAINST THE FORWARD SIDE OF THE IDLER BARREL.
STEP 8, INSTALL GUIDES

(LEFT HAND DOOR SHOWN)

DIMENSIONS IN PARENTHESES ARE IN MILLIMETRES

CAUTION: DO NOT INSTALL LONGER BOLTS INTO THE GUIDE THAT WOULD PROTRUDE INTO THE GUIDE CAVITY AND INTERFERE WITH CURTAIN TRAVEL.

(i) BOTH GUIDES ARE INTERCHANGEABLE BETWEEN THE LEFT AND RIGHT HAND SIDE.

(ii) INSTALL THE GUIDES WITH THE FLARED ENDS TO THE TOP. SLIDE THE TOP OF THE GUIDE OVER THE BOTTOM BAR ARM TO CAPTURE THE BOTTOM CORNER OF THE CURTAIN. POSITION THE GUIDE TO THE DOOR MOUNTING ANGLE.

(iii) FASTEN THE GUIDE TO THE MOUNTING ANGLE USING 3/8" - 16 NC x 1" LONG (10 x 25 LG) HEX HEAD BOLTS AND FLAT WASHER. DO NOT USE LONGER BOLTS THAT WILL PROTRUDE INTO THE GUIDE CAVITY.
STEP 9, MANUAL CHECK OF OPERATION

(LEFT HAND DOOR SHOWN)

DIMENSIONS IN PARENTHESES ARE IN MILLIMETRES

CAUTION: ASSURE THE LIMIT CAMS DO NOT ENGAGE AND DAMAGE LIMIT SWITCHES DURING MANUAL CHAIN HOIST OPERATION.

(i) OPEN THE LIMIT BOX COVER ON THE FRONT OF THE OPERATOR. ROTATE THE LIMIT CAMS AWAY FROM THE CLOSE LIMIT SWITCHES TO PREVENT CONTACT DURING MANUAL OPERATION.

(ii) ENGAGE THE MANUAL CHAIN HOIST AND LOWER THE DOOR TO THE FULLY CLOSED POSITION. CHECK FOR PROPER CURTAIN TRACKING WHILE CYCLING THE DOOR.

(iii) WITH THE BOTTOM BAR ABOUT 24" (600) FROM THE FLOOR, ADJUST THE CLOSE LIMIT CAM TO CONTACT THE CLOSE LIMIT SWITCH.

(iv) USE THE MANUAL CHAIN HOIST TO CYCLE THE DOOR TO THE OPEN POSITION. WITH THE BOTTOM BAR ABOUT 24" (600) BELOW THE HEADER, ADJUST THE OPEN LIMIT CAM TO ENGAGE THE OPEN LIMIT SWITCH.

(v) DISENGAGE THE CHAIN HOIST AND HOOK THE HAND CHAIN BEHIND THE "I" BOLT TO HOLD THE CHAIN CLEAR OF THE OPENING.

REV. DATE: DEC. 13, 2006

DRAWING No.: D-632-0010
GUIDE GUARD INSTALLATION (OPTIONAL)

(LEFT HAND DOOR SHOWN)

DIMENSIONS IN PARENTHESES ARE IN MILLIMETRES

1. Position the guide guard with the flat bar spacer against the outside of the door mounting angle. The long leg of the guide guard protrudes towards the opening, shielding the aluminum guide.

2. Use the fasteners in the guide guard hardware kit to fasten the guards to the door mounting angle. Use the "J" bolt to secure the upper bolt location on the drive side.
STEP 10, WIRE ELECTRICS

(LEFT HAND DOOR SHOWN)

DIMENSIONS IN PARENTHESIS ARE IN MILLIMETRES

CAUTION: ELECTRICAL WIRING IS TO BE PERFORMED BY A QUALIFIED ELECTRICIAN AND MUST ADHERE TO LOCAL ELECTRICAL CODES.

IMPORTANT: THE PHOTOSWITCH SUPPLIED WITH THE DOOR IS INTENDED FOR USE AS A REDUNDANT REVERSING DEVICE.

(i) THE OPERATOR AND CONTROLS ARE TO BE WIRED AS PER THE ELECTRICAL DRAWING LOCATED INSIDE THE CONTROL PANEL.

(ii) PRIMARY POWER TO THE ELECTRIC MOTOR MUST BE IN A SEPARATE ELECTRICAL CONDUIT FROM THE CONTROL WIRE CIRCUIT.

(iii) IF THE OPEN AND CLOSE PUSH BUTTONS HAVE THEIR FUNCTIONS REVERSED, CHANGE THE ELECTRICAL PHASING BY REVERSING ANY TWO OF THE THREE PHASE WIRES SUPPLYING THE PANEL.

(iv) INSTALL THE COIL CORD CLIP TO ANCHOR THE CORD TO THE DOOR MOUNTING ANGLE AT THE MID OPENING HEIGHT LEVEL. ASSURE THE COIL CORD DOES NOT CATCH ON ANY MECHANICAL COMPONENTS OF THE GUIDE OR BOTTOM BAR DURING DOOR OPERATION.

(v) MOUNT THE PHOTOSWITCH BRACKETS TO THE DOOR MOUNTING ANGLE AT AN APPROPRIATE ELEVATION FOR THE DOOR USAGE. THE BRACKETS MUST PROTRUDE A MINIMUM OF 6" (152) FROM THE GUIDE TO CLEAR THE COIL CORD. THE BRACKETS MAY BE WELDED OR DRILL AND FASTEN IF PREFERRED. WIRE TO THE CONTROLS AS A REVERSING DEVICE.

COOKSON

REV. DATE: OCT. 18, 2004
DRAWING No.: D-632-0011
GUIDE MOUNTED WINDBAR (OPTIONAL)

(LEFT HAND DOOR SHOWN)

DIMENSIONS IN PARENTHESES ARE IN MILLIMETRES

(i) ORIENT THE LEFT AND RIGHT WINDBAR TRACKS WITH THE STOP BOLT HOLES AT THE BOTTOM AND THE CURVED SIDE OF THE TRACK AWAY FROM THE CURTAIN.

(ii) BOLT THE TRACKS TO THE BOTTOM OF THE ENDPLATE USING THE BUTTON HEAD CAP SCREWS. INSTALL A TRACK BRACKET IN THE NEXT TRACK HOLE AND FASTEN TO THE DOOR MOUNTING ANGLE BY SUBSTITUTE THE 1\(\frac{1}{4}\) (25) LONG GUIDE BOLT WITH A 1\(\frac{1}{4}\) (32) LONG BOLT.

(iii) INSTALL TRACK BRACKETS IN THE REMAINING HOLES PROVIDED (IF APPLICABLE) IN THE WINDBAR TRACK.

(iv) BOLT THE TWO RATCHET BUCKLES TO THE BOTTOM SIDE OF THE TRUSS WHERE THE HOLES ARE PROVIDED. ORIENT THE RATCHET BUCKLE WITH THE RELEASE HANDLE AWAY FROM THE DRIVE BARREL.

(v) WITH THE DOOR IN THE FULLY CLOSED POSITION, INSERT A ROLLER INTO EACH END OF THE WINDBAR PIPE AND LIFT THE PIPE INTO THE BOTTOM OF THE ROLLER TRACKS. CLOSE OFF THE BOTTOM OF EACH TRACK WITH A 3\(\frac{3}{8}\) (90) I.G. BOLT WITH NUT.

(vi) FEED THE WINDBAR STRAP BETWEEN THE CURTAIN AND WINDBAR PIPE, AROUND THE BOTTOM OF THE PIPE AND UP TO THE RATCHET BUCKLES ON THE TRUSS. ASSURE THERE ARE NO TWISTS IN THE WINDBAR STRAPS.

(vii) ATTACH THE STRAPS TO THE RATCHETS AS SHOWN, ALLOW A MINIMUM OF 8\(\frac{1}{2}\) (203) OF STRAP TO FEED THROUGH THE RATCHET BUCKLE. RATCHET THE WINDBAR PIPE ABOUT 2\(\frac{1}{2}\) (51) OFF THE STOP BOLTS IN THE BOTTOM OF THE TRACK. ASSURE THE WINDBAR PIPE IS LEVEL.

(viii) CAREFULLY CYCLE THE DOOR TO THE OPEN POSITION. USE THE RATCHETS TO ADJUST THE WINDBAR PIPE LOCATION.

REV. DATE: May 16, 2006

DRAWING No.: D-632-0013
JAMB MOUNTED WINDBAR (OPTIONAL)

(LEFT HAND DOOR SHOWN)

DIMENSIONS IN PARENTHESES ARE IN MILLIMETRES

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<td>180&quot; (4572) &lt; O.W. =&lt; 360&quot; (9144)</td>
<td>33&quot; (813)</td>
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(i) ORIENT THE LEFT AND RIGHT WINDBAR TRACKS TO THE INSIDE LEG OF THE DOOR MOUNTING ANGLES. THE CURVED SIDE OF THE WINDBAR TRACK MUST BE AWAY FROM THE CURTAIN AND THE STOP BOLTS AT THE BOTTOM.

(ii) BOLT THE TRACKS TO THE DOOR MOUNTING ANGLE USING THE BUTTON HEAD CAP SCREWS.

(iii) MOUNT THE TWO RATCHET BUCKLES A FEW INCHES ABOVE THE HEADER ASSEMBLY AND AT DIMENSION "X" FROM THE DOOR MOUNTING ANGLE. ORIENT THE RATCHET BUCKLE WITH THE RELEASE HANDLE UPWARD. IF THE DOOR WAS ORDERED WITH HOODS, THE RATCHET BUCKLES ARE PREMOUNTED TO THE WALL BRACKET.

(iv) FROM THE RATCHET BUCKLE LOCATION, FEED A "FISH" LINE DOWN THE WALL BEHIND BOTH THE DRIVE BARREL AND IDLER BARREL. THE LINTEL BRUSH HOLDER HAS BEEN NOTCHED TO FACILITATE THE STRAP.

(v) WITH THE DOOR IN THE FULLY CLOSED POSITION, INSERT A ROLLER INTO EACH END OF THE WINDBAR PIPE AND LET THE PIPE INTO THE BOTTOM OF THE ROLLER TRACKS. CLOSE OFF THE BOTTOM OF EACH TRACK WITH A 3½" (90) L.G. BOLT WITH NUT.

(vi) FEED THE WINDBAR STRAP BETWEEN THE CURTAIN AND WINDBAR PIPE, AROUND THE BOTTOM OF THE PIPE AND UP TO THE RATCHET BUCKLES ON THE WALL USING THE "FISH" LINE. ASSURE THERE ARE NO TWISTS IN THE WINDBAR STRAPS.

(vii) ATTACH THE STRAPS TO THE RATCHETS AS SHOWN, ALLOW A MINIMUM OF 8" (203) OF STRAP TO FEED THROUGH THE RATCHET BUCKLE. RATCHET THE WINDBAR PIPE ABOUT 2" (51) OFF THE STOP BOLTS IN THE BOTTOM OF THE TRACK. ASSURE THE WINDBAR PIPE IS LEVEL.

(viii) CAREFULLY CYCLE THE DOOR TO THE OPEN POSITION. USE THE RATCHETS TO ADJUST THE WINDBAR PIPE LOCATION.

REV. DATE: JUL 25, 2005
DRAWING No.: D-632-0038
HOOD INSTALLATION (OPTIONAL)

(LEFT HAND DOOR SHOWN)

DIMENSIONS IN PARENTHESES ARE IN MILLIMETRES

1. INSTALL THE WALL BRACKET ONTO THE WALL WITH THE TOP 3" (76.2 mm) AND 4 1/2" (114.3 mm) ABOVE THE TOP OF THE ENDPLATE. THE WALL BRACKET SHOULD EXTEND EVENLY BEYOND THE ENDPLATE AT EACH END. (THE WALL BRACKET IS FABRICATED IN MULTIPLE PIECES ON WIDE DOORS)

2. BEGINNING AT THE SPRING END, INSTALL THE FRONT HOODS OVER THE SPRINGS AND FASTEN TO THE TOP AND BOTTOM OF THE DOOR TRUSS WITH SELF-TAPPING SCREWS. THE FIRST HOOD IS MOUNTED FLUSH WITH THE ENDPLATE. MULTIPLE HOODS HAVE PROVISIONS FOR A 1" (25 mm) OVERLAP PER SEAM.

3. FALSE SUPPORT PLATES HAVE BEEN PROVIDED WHERE THE HOOD MUST EXTEND PAST THE LAST SPRING SUPPORT PLATE.

4. INSTALL THE TOP HOODS STARTING FLUSH WITH THE SPRING ENDPLATE. MULTIPLE HOODS HAVE PROVISIONS FOR A 1" (25 mm) OVERLAP PER SEAM. INSTALL SCREWS WHERE HOLES ARE PROVIDED.

5. INSTALL THE SPRING END HOOD OVER THE SPRING CHAINS. ALLOW A 2" (51 mm) OVERLAP ONTO THE DOOR HOODS. INSTALL SCREWS WHERE HOLES ARE PROVIDED.

6. INSTALL THE OPERATOR HOOD IN THE SAME MANNER AS THE SPRING END HOOD. REMOVE THE HOOD ACCESS COVER TO ALIGN THE ACCESS COVER WITH THE LIMIT BOX COVER.
Recommended Wiring Requirements
From Control Panel to Electric Operator
Revised: April 20, 2010

General
If your control panel was not ordered with the optional fused disconnect, it is recommended (and most likely local code) that the power source be fused immediately prior to entering the panel. Consult your local electrical codes for fusing requirements. When making penetrations in any enclosure, ensure that the components and circuitry are protected from debris and contact with tools. Use the appropriate fittings for the application/environment.

Primary Power Conduit
In all cases, Primary Power wires must be an appropriate gauge based on the amperage and length of feed to the electric operator limit box. Consult your local electrical codes. Recommended: a minimum 14 gauge, multi-strand wire installed in a protective conduit.

Control Wire Conduit
In all cases, Control wires must be an appropriate gauge based on amperage and length of feed to the electric operator limit box. Consult your local electrical codes. Recommended: a minimum 16 gauge, multi-strand wire installed in a separate protective conduit from the Primary Power wires.

From both conduits, an appropriate flexible conduit should bridge the wires from the wall to the electric operator. In all cases, the reversing edge wires should connect to the coil cord via an electrical junction box located at half the door opening height. Reversing edge wires are not included in the quantities below.

Model EPR-10 with Optional Wall Mounted Control Panel
(Some options may require additional wires)
Relay Logic Panel;
Primary Power: 3 wires + 1 ground wire
Controls: 11 wires + 2 spare wires + 1 ground wire

SR Controller Panel;
Primary Power: 3 wires + 1 ground wire
Controls: 5 wires + 2 spare wires + 1 ground wire

Model EPR-10 Door
(Some options may require additional wires)
Relay Logic Panel;
Primary Power: 3 wires + 1 ground wire
Controls: 13 wires + 2 spare wires + 1 ground wire

SR Controller Panel;
Primary Power: 3 wires + 1 ground wire
Controls: 8 wires + 2 spare wires + 1 ground wire

Model EPR-10 Door
(Some options may require additional wires)
SR Controller with Inverter Panel;
Primary Power: 3 wires + 1 ground wire
Controls: 10 wires + 2 spare wires + 1 ground wire
NOTES:

THIS DRAWING IS INTENDED AS A GENERAL GUIDELINE ONLY. CONSULT YOUR LOCAL ELECTRICAL CODES.

SOME ELECTRICAL OPTIONS MAY REQUIRE ADDITIONAL WIRING.

ALL WIRING SHOULD BE INSTALLED BY A QUALIFIED ELECTRICIAN.
# MAINTENANCE SCHEDULE / SPARE PARTS

Dimensions in parenthesis are in millimetres

**IMPORTANT:**
Disconnect and lock-out power supply before servicing moving parts. Copy this sheet to record maintenance history.

## ANNUAL MAINTENANCE SCHEDULE

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<th>Date</th>
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<th>Note 1</th>
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**Note 1:** Proper limit chain tension is about \( \frac{1}{4} \) (3) slack in each direction for a total movement of about \( \frac{1}{2} \) (6).

**Note 2:** Proper drive chain tension is about \( \frac{1}{2} \) (6) slack in each direction for a total movement of about \( \frac{1}{2} \) (12).

**Note 3:** Spring chain tension is maintained automatically. Check that chain is taut.

**Note 4:** Conditions will dictate lubrication requirements. Chains must be kept clean and well lubricated with a W30 oil.

**Note 5:** Standing clear of the curtain path, compress the reversing edge during the close cycle. Door should reverse.

**Note 6:** Standing clear of the curtain path, cover the photoswitch beam during the closing cycle. Door should reverse.

**Note 7:** Cycle the door to the open and close position. Check for adequate stopping locations.

**Note 8:** Check for any loose fasteners. Tighten as required.

**Note 9:** Visual check for broken spring wire.

**Note 10:** Apply a spray lubricant to both the inner and outer spring to reduce noise and maintain intended spring life. Recommended lubricant is “Fluid Film” made by Eureka.

## RECOMMENDED SPARE PARTS

There are no parts to replace on the door system during regular maintenance checks. As the maintenance schedule approaches 100,000 cycles (or optional 200,000 cycle springs) replacement springs may be ordered to facilitate a scheduled change.

If the door is likely to be impacted, knock-away bolts & nuts should be kept on hand for bottom bar assembly.
# Electrical Troubleshooting Guide

## Actual PLC

### Supply Power Terminals (24VAC)

### Active Input (Shaded)

### Inputs

### Outputs

### Inactive Output

### Menu Navigation Keys

### Output Terminals

### Activation Devices

### PLC As Shown on Schematic

### Terminal Number

---

### Refer to Notes:

(i) and diagrams for how to read PLC input/output activation

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause</th>
<th>Solution</th>
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<tbody>
<tr>
<td>Door does not operate electrically</td>
<td>- Manual chain hoist</td>
<td>- Disengage chain hoist / adjust cable tension</td>
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<tr>
<td></td>
<td>- Disconnect switch engaged</td>
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<td>- Blown fuse</td>
<td>- Replace fuses</td>
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<td>- Disconnect turned off</td>
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<td></td>
<td>- Motor over load tripped</td>
<td>- Reset over load</td>
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<tr>
<td></td>
<td>- PLC program stopped</td>
<td>- Check program status on display. Restart program</td>
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<tr>
<td>Door reverses when closing</td>
<td>- Photocells misaligned</td>
<td>- Adjust photocells so that all three lights are lit on top of photocell receiver</td>
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<tr>
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<td>- Reversing edge / photocell / floor loop sensitivity set too high</td>
<td>- Adjust device sensitivity</td>
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<td>- Short circuit in safety device wiring</td>
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<tr>
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<td>- Coil cord trips photocell</td>
<td>- Trace wiring to find short circuit</td>
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<tr>
<td>Reversing edge does not reverse door</td>
<td>- Kinked sensing tube</td>
<td>- Adjust coil cord / photocell position</td>
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<tr>
<td></td>
<td>- Sensitivity set too low</td>
<td></td>
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<tr>
<td></td>
<td>- Faulty reversing edge</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Wired incorrectly</td>
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### Photocell does not reverse door

- Sensitivity set too low
- Wired incorrectly
- Faulty photocell

- Check the top of the light source and receiver to ensure all of the lights are lit up. Place something over one of the photocells to block the beam and check the PLC to see that the photocell is activated. Refer to photocell wiring diagram for proper wiring and light descriptions.
- Disconnect white and orange photocell leads from field wiring. Check the white and orange leads for continuity. There should only be continuity when the beam is blocked.

---

(i) Inputs are shown on the top of the PLC display. If an input is shaded it is active (receiving a signal from the activation device).

(ii) Outputs are shown on the bottom of the PLC display. If an output is shaded it is active.

---

**Cookson**

**Rev. Date:** April 27, 2009

**Drawing No.:** D-032-0118
### PRIMARY PARTS LIST

(LEFT HAND DOOR SHOWN)

* SEE ADDITIONAL PARTS LIST FOR SUB-COMPONENTS.

** DOOR MOUNTING ANGLES ARE IDENTIFIED AS SHOWN. SOME INSTALLATIONS MAY HAVE THEM EXCHANGED.

*** SEE OPERATOR MOUNTING HARDWARE PAGE.

<table>
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<th>PART No.</th>
<th>DESCRIPTION</th>
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** REV. DATE: JAN 3, 2008  
** DRAWING No.: D-632-0015
## BOTTOM BAR ASSEMBLY PARTS LIST

*LEFT HAND BOTTOM BAR SHOWN*

### ELECTRIC REVERSING EDGE

**SHOWN AS LEFT HAND DOOR**

### AIR-WAVE REVERSING EDGE

**SHOWN AS LEFT HAND DOOR**

---

**ENLARGED SIDE VIEW**

**BOTTOM BAR ARM NOT SHOWN IN THIS VIEW**

---

* PARTS APPLY TO ELECTRIC REVERSING EDGE ONLY.

** PARTS APPLY TO AIR-WAVE REVERSING EDGE ONLY.

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**REV. DATE: APR. 20, 2007**

**DRAWING No.: D-632-0016**
## SPRING SHAFT ASSEMBLY PARTS LIST

**EPR-10 SERIES DOORS**

### SPRING HANDING

- **RIGHT WOUND**
- **LEFT WOUND**

*If ordering only one spring for a multi-spring configuration, specify either the handing of the spring or the spring location.*

### SPRING SPROCKETS

- **SPRING LOCATION RIGHT-HAND DOOR**
  - **II**
  - **IV**
  - **VI**

- **SPRING LOCATION LEFT-HAND DOOR**
  - **I**
  - **III**

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**COOKSON**

REV. DATE: JUNE 30, 2006

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REV. DATE: APR. 27, 2006

DRAWING No.: D-632-0018
## OPERATOR MOUNTING HARDWARE

### PARTS LIST

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