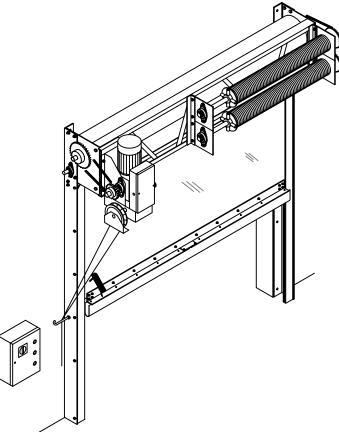
# INSTALLATION & SERVICE MANUAL

DIMENSIONS IN PARENTHESIS ARE IN MILLIMETRES



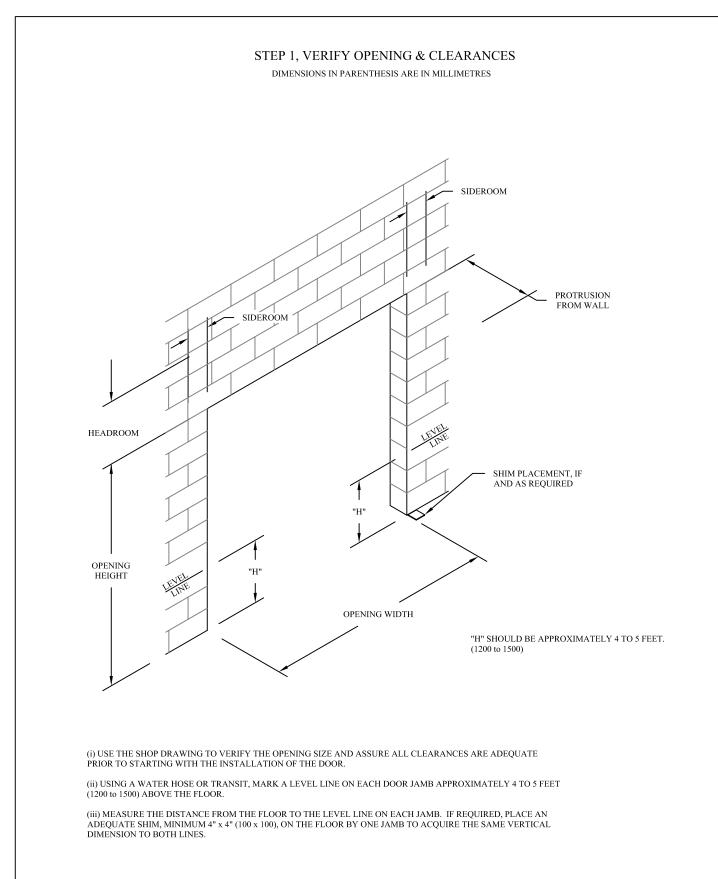
END USER: DEALER: DOOR SERIAL No.: DOOR MODEL: TO BE ADVISED DOOR SIZE: WIDE x HIGH DOOR HANDING: INSIDE TO INSIDE MEASUREMENT: (SEE STEP 2) OPENING WIDTH + 8" (203)



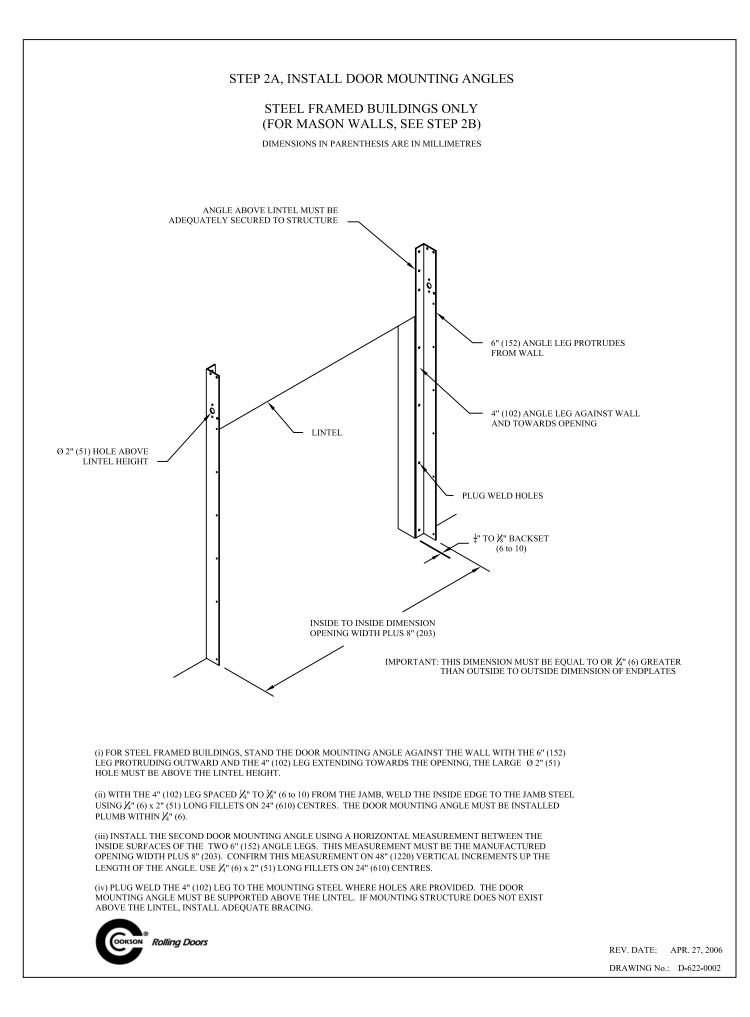
2417 South 50th Avenue ● Phoenix, AZ 85043 800.294.4358 www.cooksondoor.com

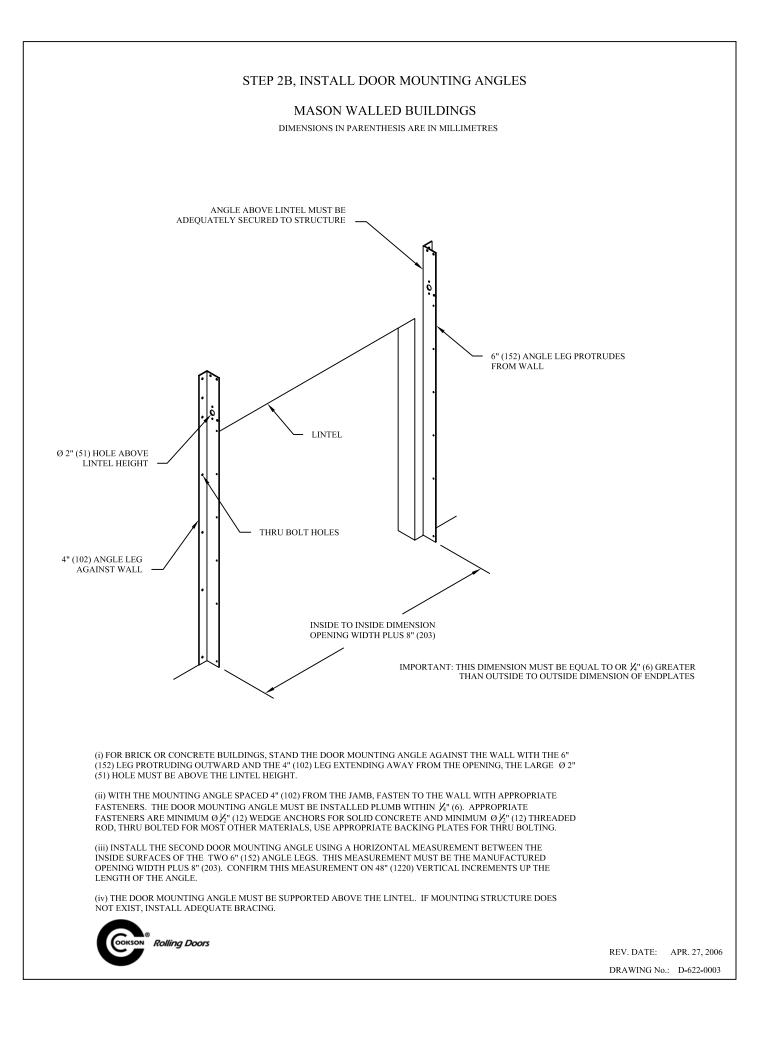
MANUAL-001

REV. DATE: APRIL 27, 2009 DRAWING No.: D-622-0012



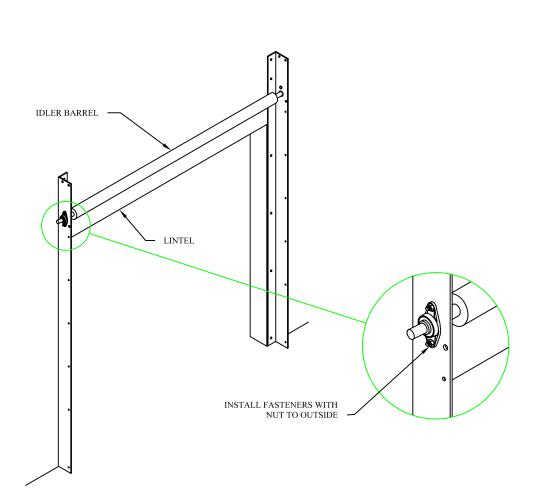






#### STEP 3, INSTALL IDLER BARREL

DIMENSIONS IN PARENTHESIS ARE IN MILLIMETRES

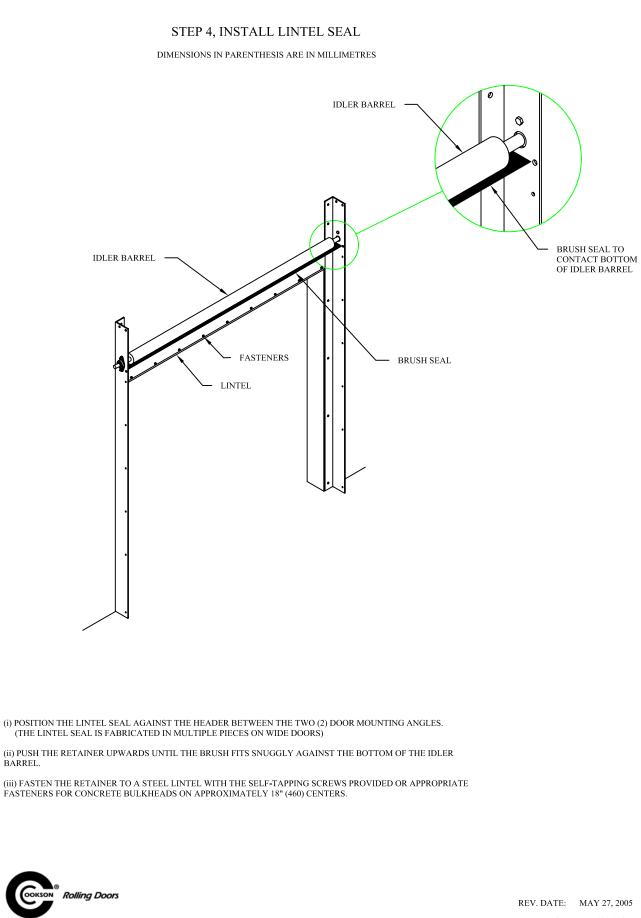


(i) POSITION THE IDLER BARREL BY PLACING THE SHAFT ENDS THROUGH THE  $\emptyset$  2" (51) HOLE IN EACH DOOR MOUNTING ANGLE.

(ii) SLIDE A FLANGE BEARING ONTO EACH END OF THE IDLER BARREL AND FASTEN TO THE DOOR MOUNTING ANGLE USING  $\emptyset \not Z''$  (12) BOLTS. INSTALL THE NUTS TO THE OUTSIDE OF THE MOUNTING ANGLES.

(iii) CENTRE THE IDLER BARREL AND TIGHTEN THE SETSCREWS.



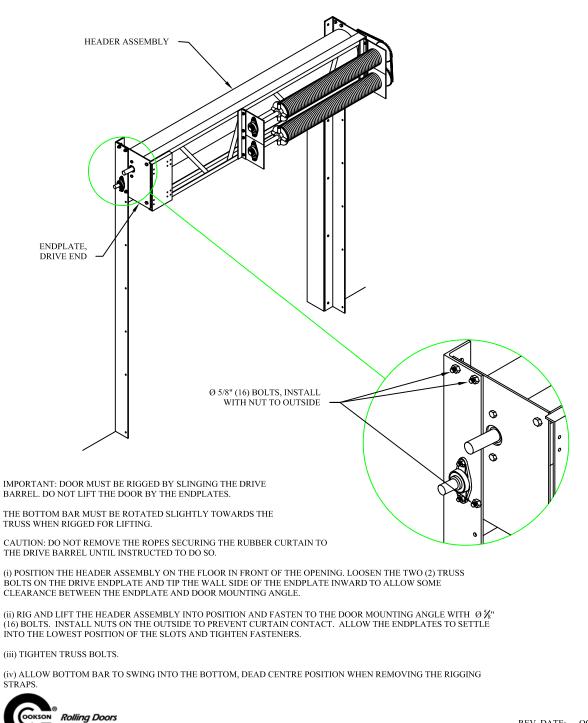


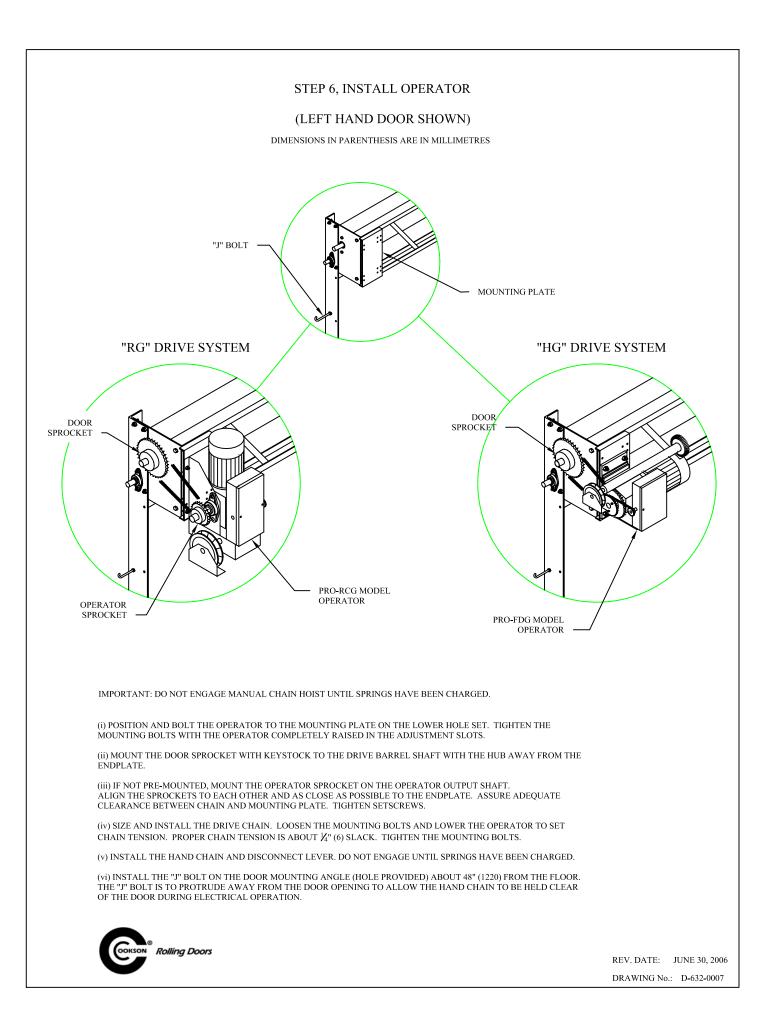
DRAWING No.: D-622-0004

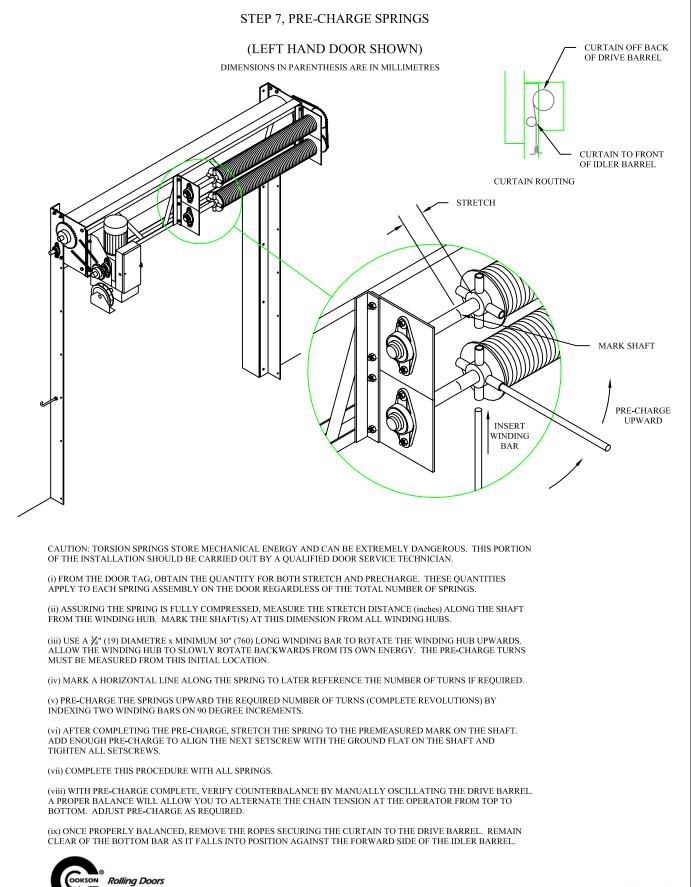
#### STEP 5, INSTALL HEADER ASSEMBLY

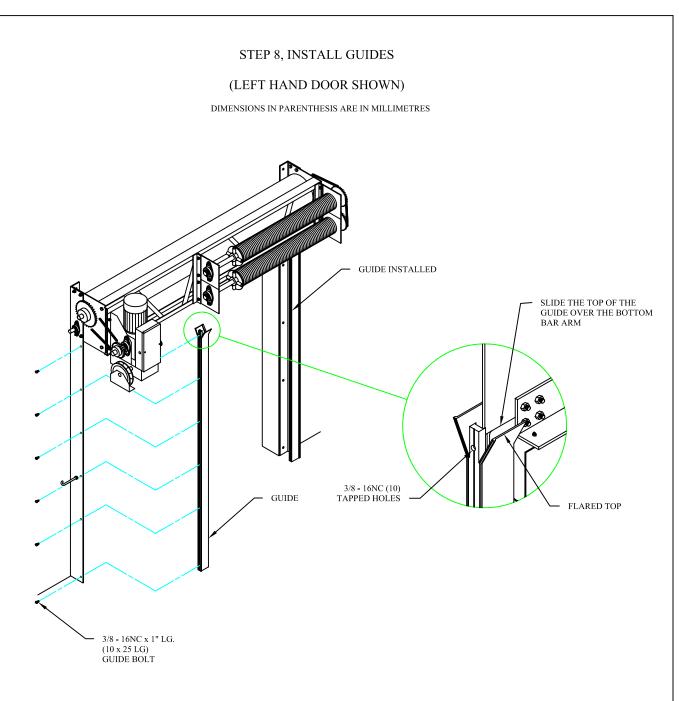
#### (LEFT HAND DOOR SHOWN)

DIMENSIONS IN PARENTHESIS ARE IN MILLIMETRES









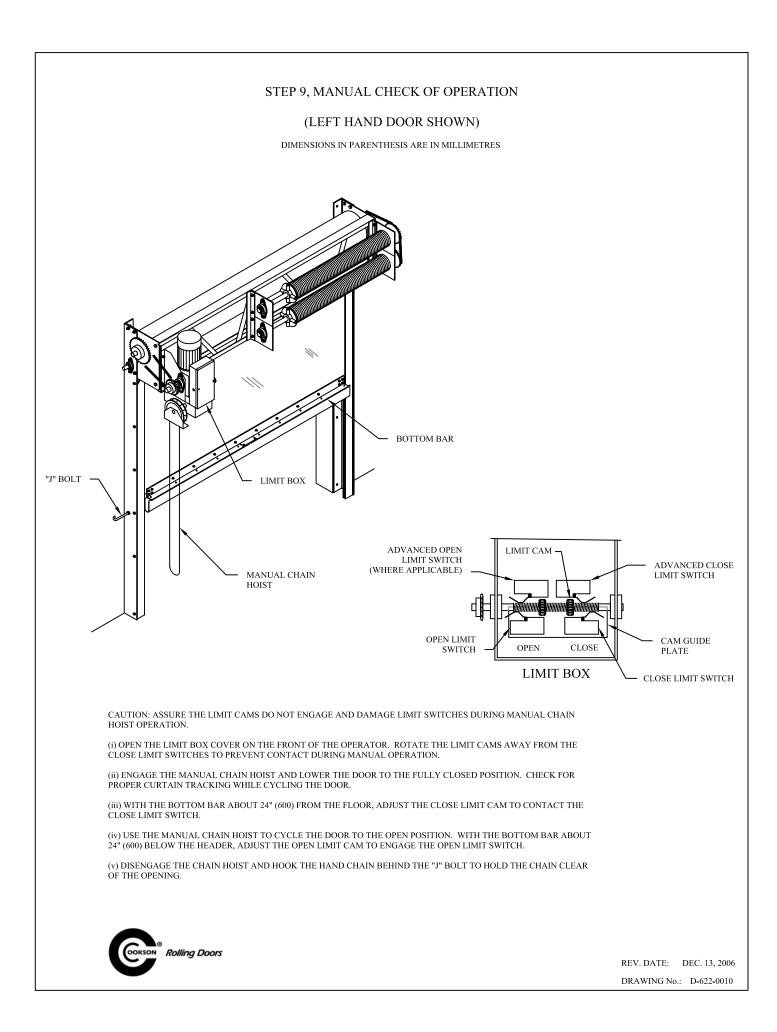
CAUTION: DO NOT INSTALL LONGER BOLTS INTO THE GUIDE THAT WOULD PROTRUDE INTO THE GUIDE CAVITY AND INTERFERE WITH CURTAIN TRAVEL.

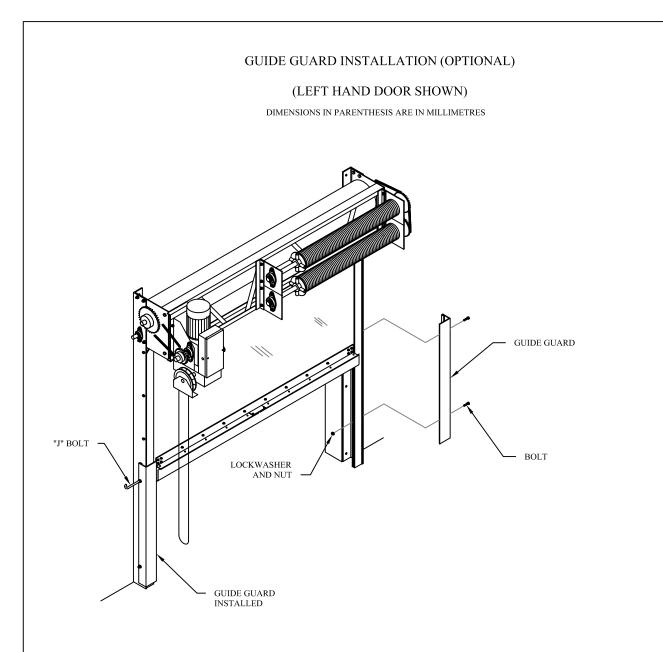
(i) BOTH GUIDES ARE INTERCHANGEABLE BETWEEN THE LEFT AND RIGHT HAND SIDE.

(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  $\frac{1}{2}$  - 16NC 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.







(i) POSITION THE GUIDE GUARD WITH THE FLATBAR SPACER AGAINST THE OUTSIDE OF THE DOOR MOUNTING ANGLE. THE LONG LEG OF THE GUIDE GUARD PROTRUDES TOWARDS THE OPENING, SHIELDING THE ALUMINUM GUIDE.

ii) 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 PHOTOSWITCH BRACKET 0 COIL CORD PHOTOSWITCH LIMIT BOX - MIN. 6" (152) PHOTOSWITCH MOUNTED CONTROL PANEL

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.

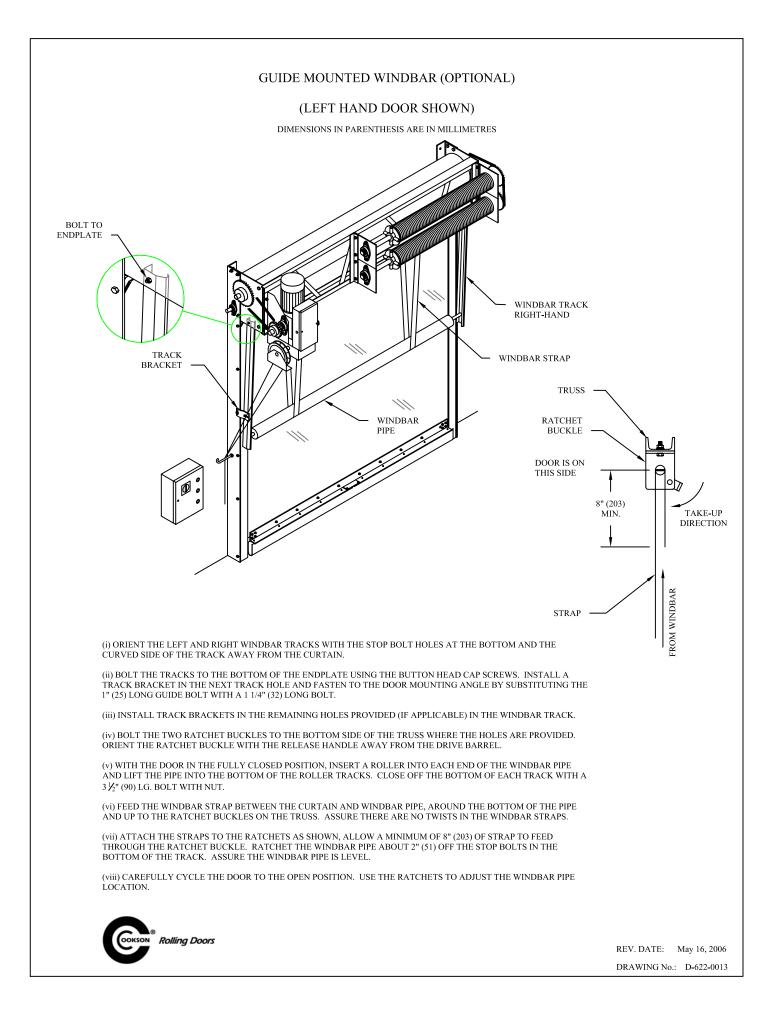
(ii) PRIMARY POWER TO THE ELECTRIC MOTOR MUST BE IN A SEPARATE ELECTRICAL CONDUIT FROM THE CONTROL WIRE CIRCUIT.

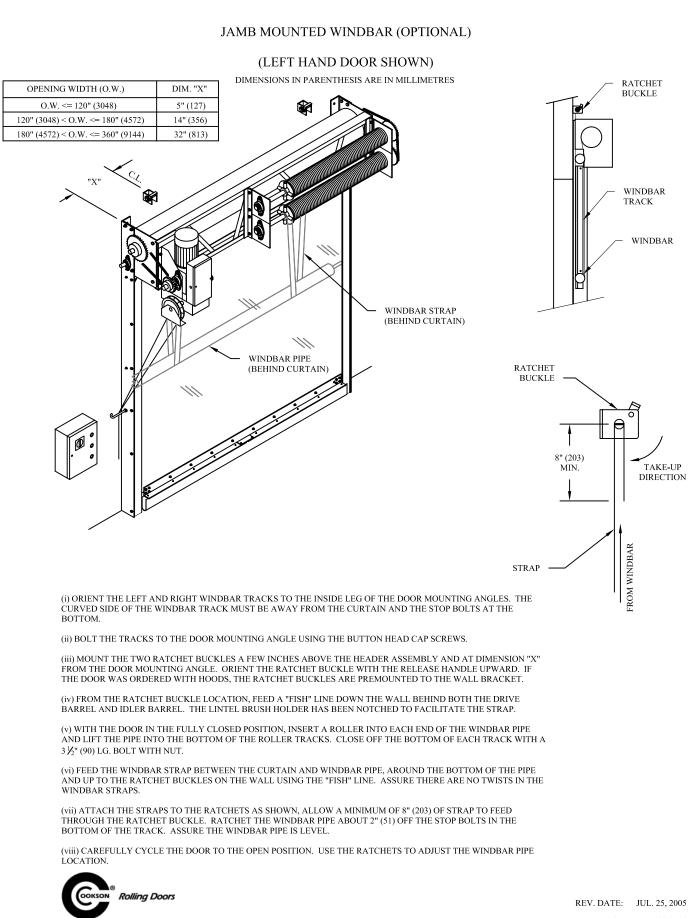
(iii) IF THE OPEN AND CLOSE PUSH BUTTONS HAVE THEIR FUNCTIONS REVERSED, CHANGE THE ELECTRICAL PHASING BY REVERSING ANY TWO OF THE THREE PHASE WIRES SUPPLYING THE PANEL.

(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.

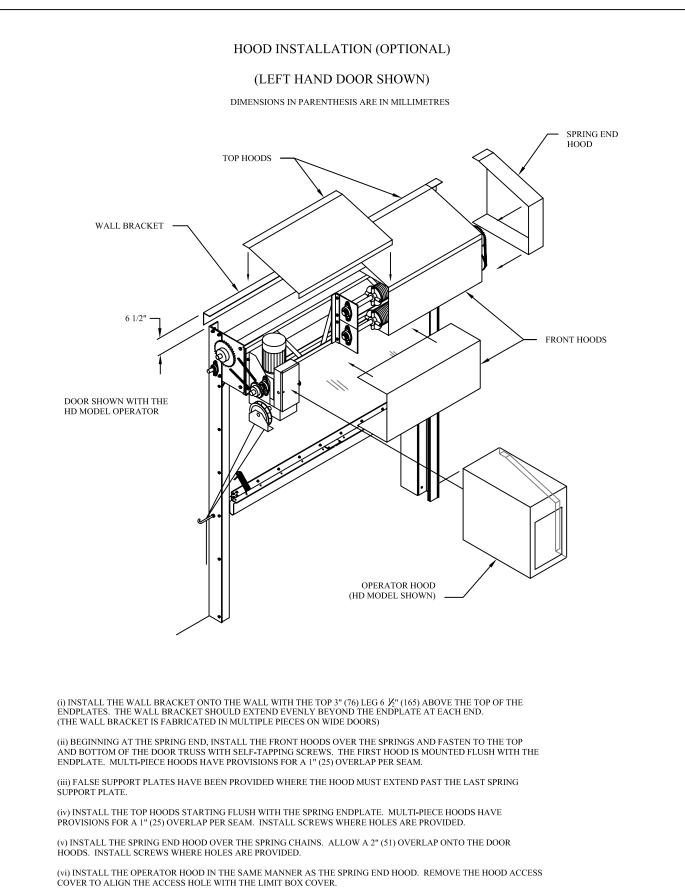
(v) MOUNT THE PHOTOSWITCH BRACKETS TO THE DOOR MOUNTING ANGLE AT AN APPROPRIATE ELEVATION FOR THE DOOR USAGE. THE BRACKETS MUST PROTRUDE A MINIMUM OF 6" (152) FROM THE GUIDE TO CLEAR THE COIL CORD. THE BRACKETS MAY BE WELDED OR DRILL AND FASTEN IF PREFERRED. WIRE TO THE CONTROLS AS A REVERSING DEVICE.





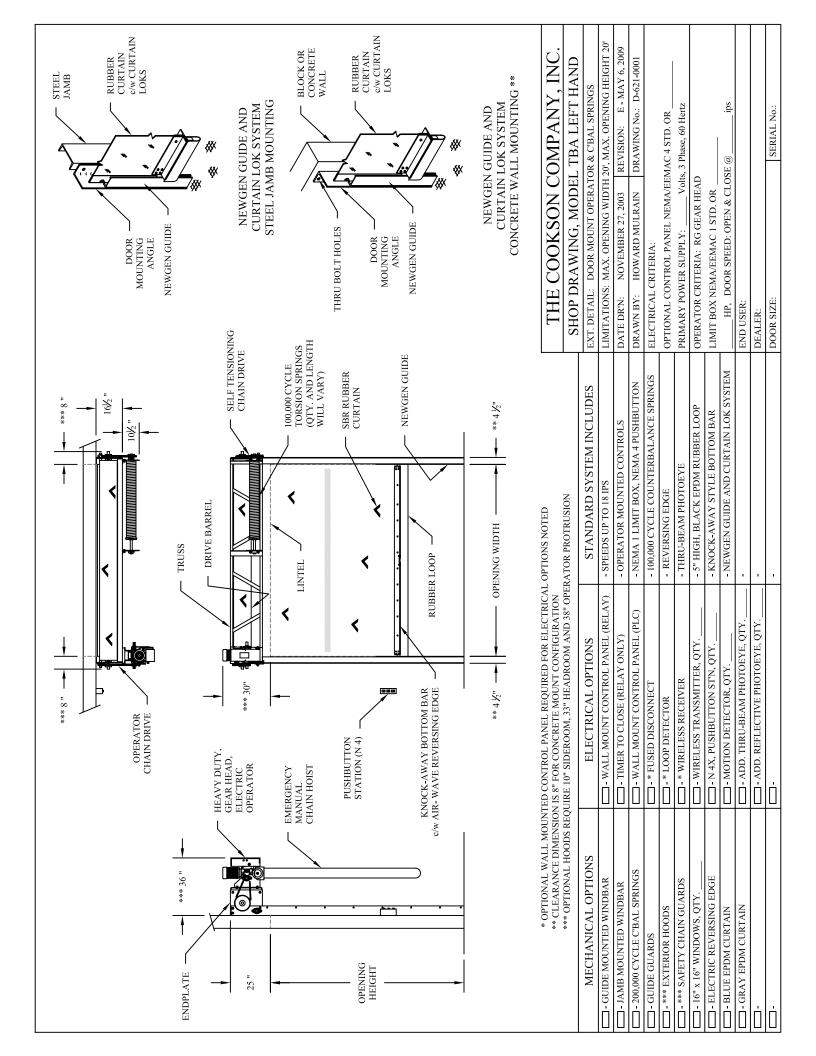


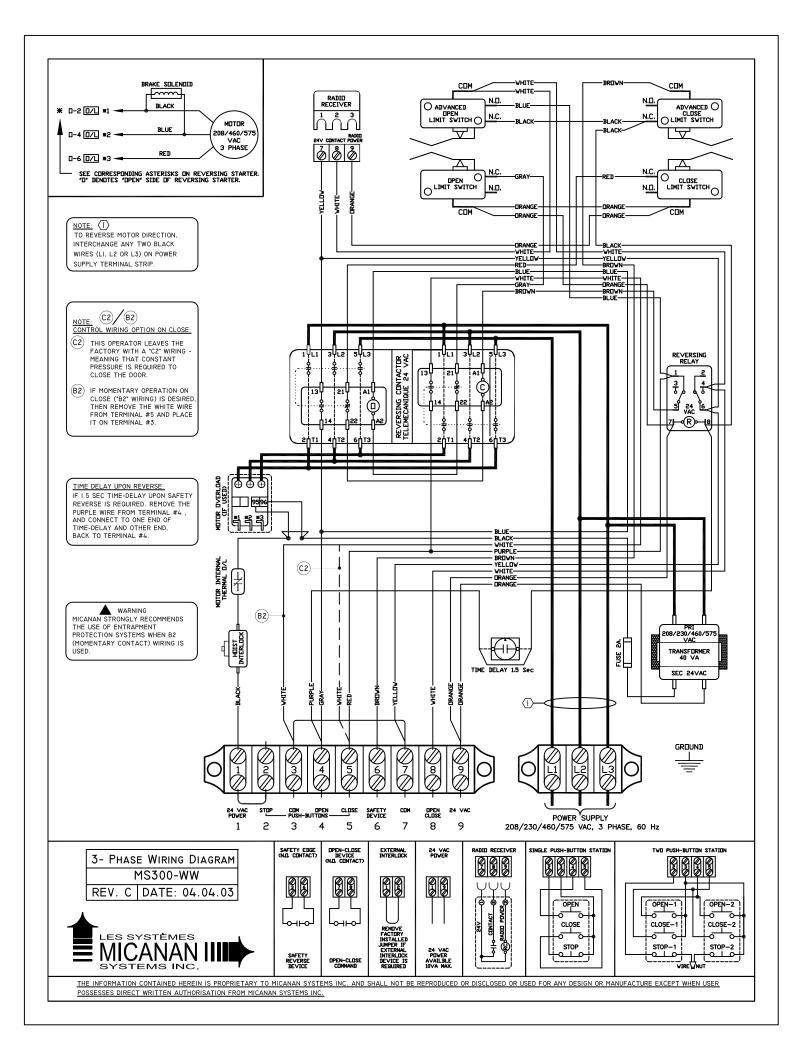
#### DRAWING No.: D-622-0038

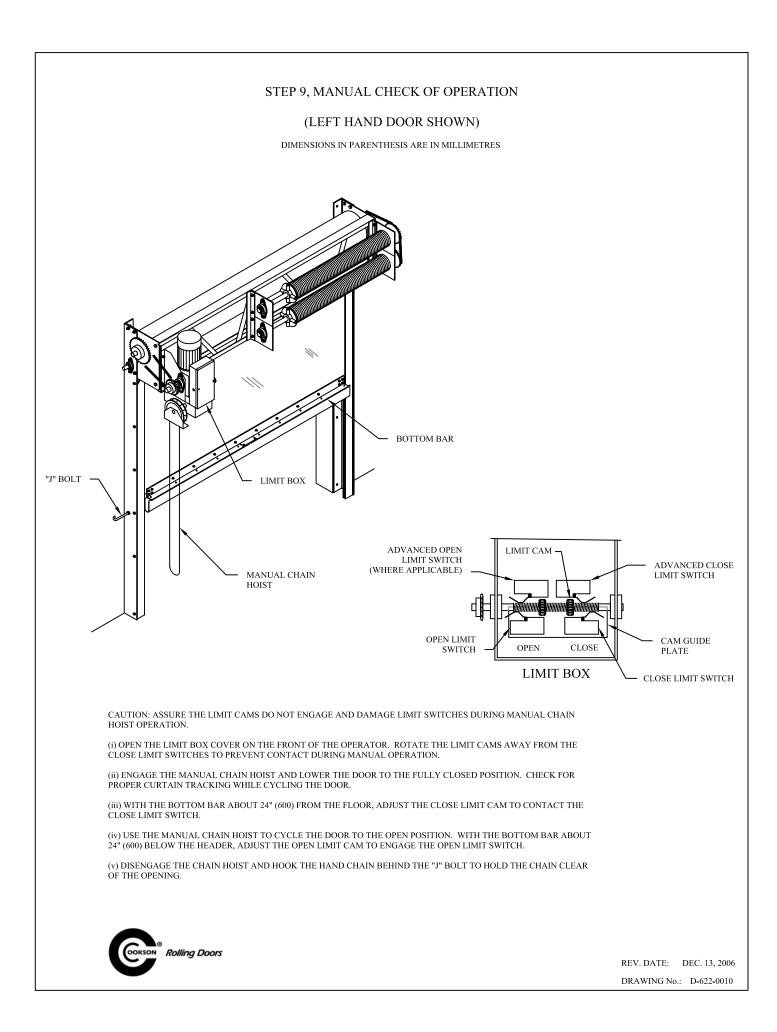


COKSON® Rolling Doors

REV. DATE: JUL. 25, 2005 DRAWING No.: D-622-0014







### **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 TBA 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 TBA Door

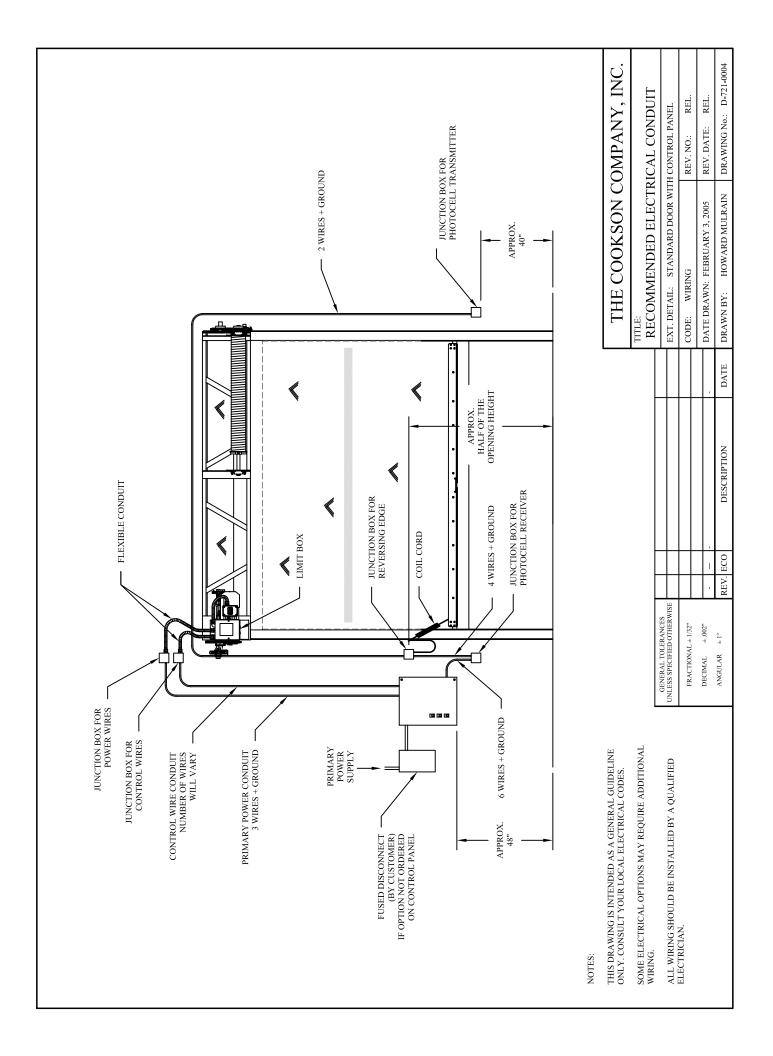
(Some options may require additional wires) Relay Logic Panel; Primary Power: 3 wires + 1 ground wire Controls: 13 wires + 2 spare wires + 1 ground wire

#### SR Controller Panel;

Primary Power: 3 wires + 1 ground wire Controls: 8 wires + 2 spare wires + 1 ground wire

#### Model TBA 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



## 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								ИТСН	OSE		ANCE	BALANCE	
FOR THE YEAR WHEN PERFORMING SCHEDULED MAINTENANCE, RECORD DATE AND CURRENT CYCLE COUNT. PERFORM CHECK/TEST/TASK AS INDICATED BY AN UNSHADED BOX. INITIAL BOX TO INDICATE MAINTENANCE ITEM HAS BEEN PERFORMED.			CHECK LIMIT CHAIN TENSION	CHECK DRIVE CHAIN TENSION	CHECK SPRING CHAIN TENSION	LUBRICATE ALL CHAINS	TEST FUNCTION OF REVERSING EDGE	TEST FUNCTION OF REVERSING PHOTOSWITCH	CHECK OPEN AND CLOSE LIMIT SETTINGS	CHECK FOR LOOSE FASTENERS	CHECK COUNTERBALANCE SPRINGS	LUBRICATE COUNTERBALANCE SPRING	
DATE	CYCLES	SCHEDULE	NOTE 1	NOTE 2	NOTE 3	NOTE 4	NOTE 5	NOTE 6	NOTE 7	NOTE 8	NOTE 9	NOTE 10	-
		JANUARY											
		FEBRUARY											
		MARCH											
		APRIL											
		MAY											
		JUNE											
		JULY											
		AUGUST											
		SEPTEMBER											
		OCTOBER											
		NOVEMBER											
		DECEMBER											

NOTE 1, PROPER LIMIT CHAIN TENSION IS ABOUT  $at X^{"}(3)$  SLACK IN EACH DIRECTION FOR A TOTAL MOVEMENT OF ABOUT  $at X^{"}(6)$ .

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.

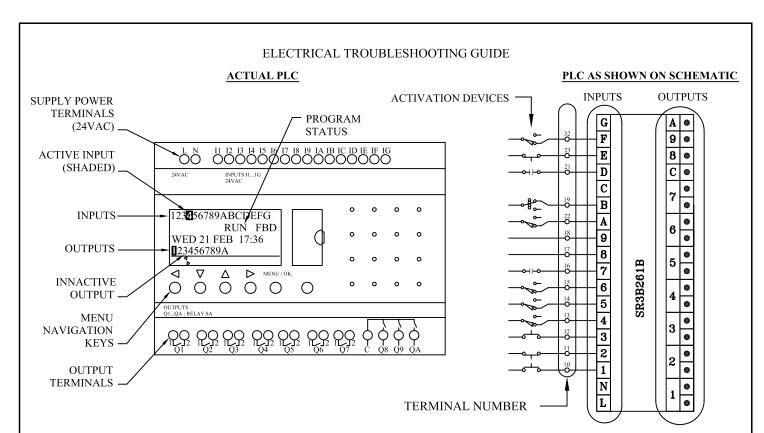
#### **RECOMMENDED SPARE PARTS**

THERE ARE NO PARTS TO REPLACE ON THE DOOR SYSTEM DURING REGULAR MAINTENANCE CHECKS. AS THE MAINTENANCE SCHEDULE APPROCHES 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.



REV. DATE: FEB. 3, 2005 DRAWING No.: D-622-0040



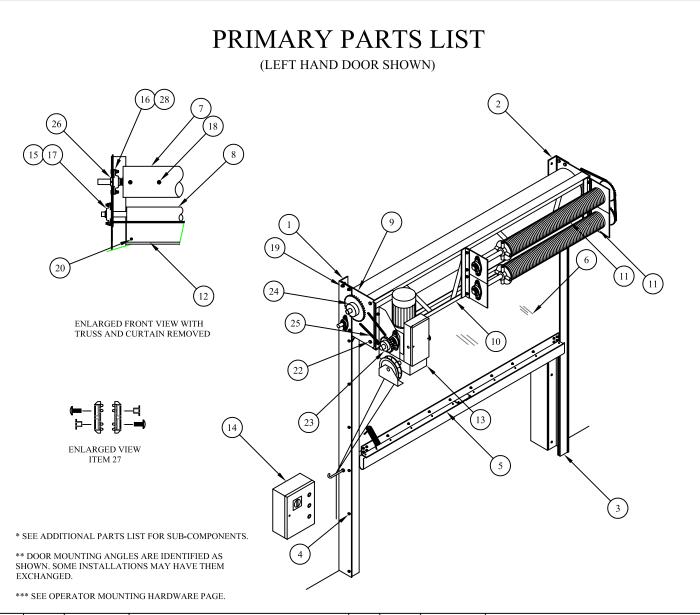
REFER TO NOTES (i), (ii), AND DIAGRAMS FOR HOW TO READ PLC INPUT/OUTPUT ACTIVATION

SYMPTOM	POSSIBLE CAUSE	SOLUTION
DOOR DOES NOT OPERATE ELECTRICALLY	<ul> <li>MANUAL CHAIN HOIST DISCONNECT SWITCH ENGAGED</li> <li>BLOWN FUSE</li> <li>DISCONNECT TURNED OFF</li> <li>MOTOR OVER LOAD TRIPPED</li> <li>PLC PROGRAM STOPPED</li> </ul>	- DISENGAGE CHAIN HOIST / ADJUST CABLE TENSION - REPLACE FUSES - TURN DISCONNECT ON - RESET OVER LOAD - CHECK PROGRAM STATUS ON DISPLAY. RESTART PROGRAM
RUNS IN OPPOSITE DIRECTION	- PHASING IS REVERSED	- INTERCHANGE M1 & M2 FIELD WIRES
DOOR REVERSES WHEN CLOSING	<ul> <li>PHOTCELLS MISALIGNED</li> <li>REVERSING EDGE / PHOTCELL / FLOOR LOOP SENSITIVITY SET TOO HIGH</li> <li>SHORT CIRCUIT IN SAFETY DEVICE WIRING</li> <li>COIL CORD TRIPS PHOTOCELL</li> </ul>	<ul> <li>ADJUST PHOTOCELLS SO THAT ALL THREE LIGHTS ARE LIT ON TOP OF PHOTOCELL RECEIVER</li> <li>ADJUST DEVICE SENSITIVITY</li> <li>TRACE WIRING TO FIND SHORT CIRCUIT</li> <li>ADJUST COIL CORD / PHOTOCELL POSITION</li> </ul>
REVERSING EDGE DOES NOT REVERSE DOOR	- KINKED SENSING TUBE - SENSITIVITY SET TOO LOW - FAULTY REVERSING EDGE - WIRED INCORRECTLY	<ul> <li>DISCONNECT POWER, THEN DISCONNECT THE SENSING TUBE FROM THE AIR SWITCH AND HOLD THE END OF THE TUBE UP TO YOUR EAR AND HIT THE REVERSING EDGE WITH YOUR HAND. IF YOU CAN'T FEEL AND HEAR THE AIR COMING FROM THE EDGE, TRY TO CLEAR THE SENSING TUBE. IF PROBLEM PERSISTS REPLACE THE SENSING TUBE.</li> <li>ADJUST SENSITIVITY</li> <li>CONTINUITY TEST REVERSNG EDGE AND REPLACE IF NECESSARY</li> <li>VERIFY WIRING.</li> </ul>
PHOTOCELL DOES NOT REVERSE DOOR	- SENSITIVITY SET TOO LOW - WIRED INCORRECTLY - FAULTY PHOTOCELL	<ul> <li>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.</li> <li>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.</li> </ul>

(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.

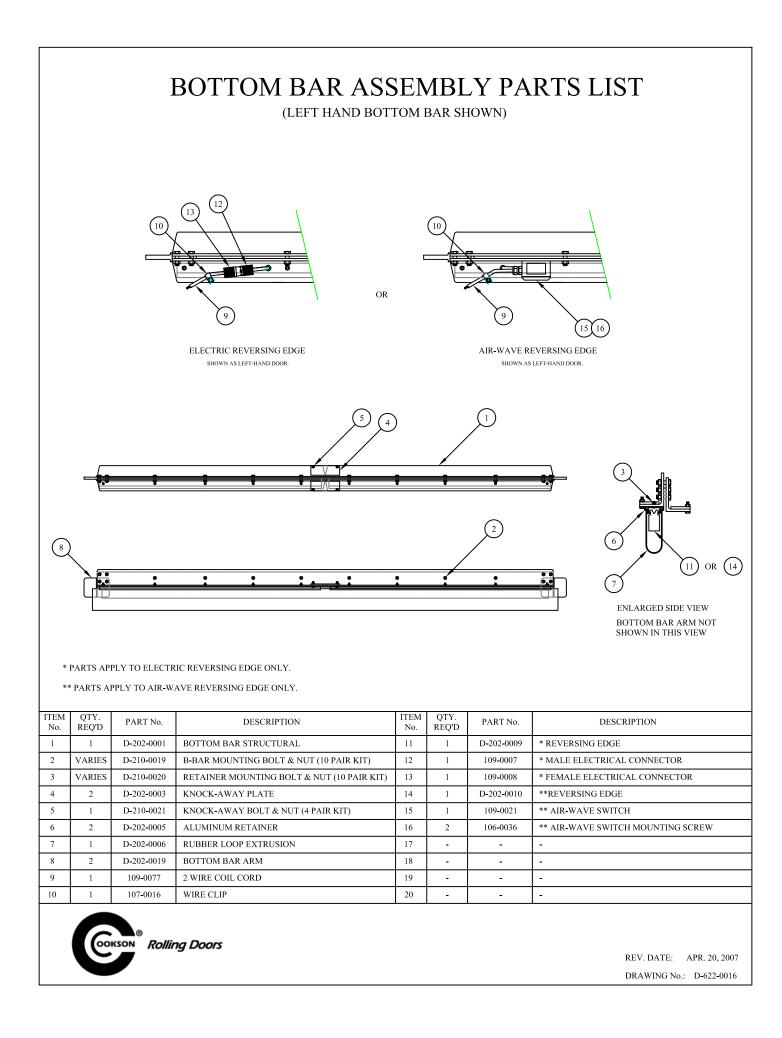


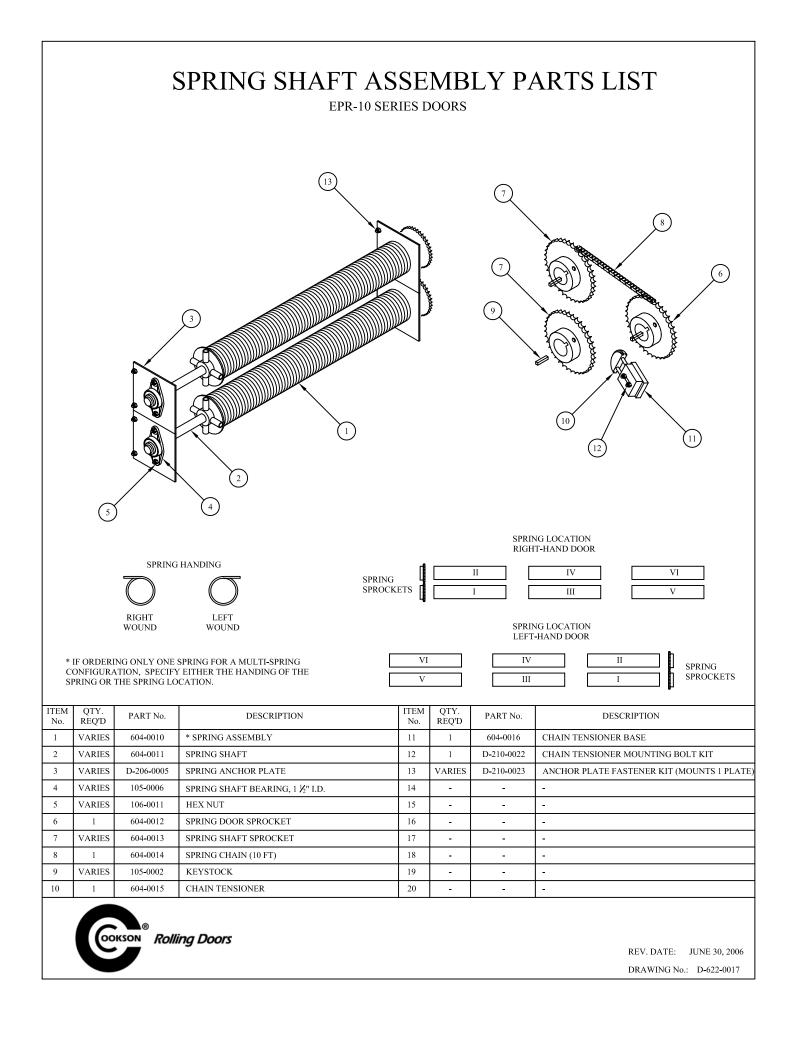


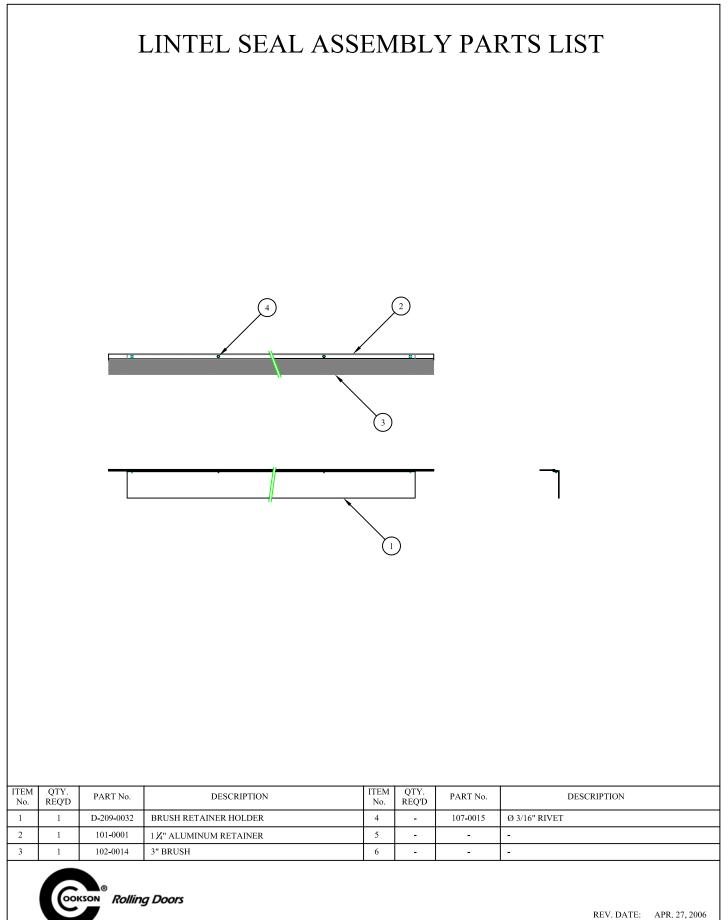
ITEM No.	QTY. REQ'D	PART No.	DESCRIPTION	ITEM No.	QTY. REQ'D	PART No.	DESCRIPTION
1	1	D-205-0002	<b>** DOOR MOUNTING ANGLE, LEFT HAND</b>	15	2	105-0005	IDLER BARREL BEARING, 1 1/4" I.D.
2	1	D-205-0003	<b>** DOOR MOUNTING ANGLE, RIGHT HAND</b>	16	2	105-0006	DRIVE BARREL BEARING, 1 ½" I.D.
3	2	D-205-0013	4" GUIDE, FABRICATED	17	2	D-210-0004	BEARING MOUNTING HARDWARE KIT, 1/2"
4	VARIES	D-210-0011	GUIDE MOUNTING BOLT (10 BOLT KIT)	18	VARIES	D-210-0007	CURTAIN BOLT & WASHER (10 PAIR KIT)
5	1	604-0001	* BOTTOM BAR ASSEMBLY	19	1	D-210-0003	DOOR MOUNTING HARDWARE KIT
6	1	604-0002	CURTAIN ASSEMBLY	20	VARIES	D-210-0008	LINTEL HARDWARE KIT (10 SCREW KIT)
7	1	D-200-0004	DRIVE BARREL ASSEMBLY	21	1	VARIES	*** OPERATOR MOUNTING HARDWARE KIT
8	1	D-204-0003	IDLER BARREL ASSEMBLY	22	1	D-210-0018	TRUSS MOUNTING HARDWARE KIT
9	2	D-203-0012	ENDPLATE	23	1	604-0007	OPERATOR DRIVE SPROCKET
10	1	604-0003	TRUSS ASSEMBLY	24	1	604-0008	OPERATOR DOOR SPROCKET
11	VARIES	604-0004	* SPRING SHAFT ASSEMBLY	25	1	604-0009	OPERATOR DRIVE CHAIN (10 FT)
12	1	D-209-0033	* LINTEL SEAL ASSEMBLY	26	2	105-0011	STOP COLLAR, 1 ½" ID
13	1	604-0005	* ELECTRIC OPERATOR	27	VARIES	D-210-0040	GREY CURTAINLOK ASS'Y KIT (5 ASSEMBLIES)
14	1	604-0006	* ELECTRICAL CONTROL PANEL	28	2	210-0042	BEARING MOUNTING HARDWARE KIT, 5/8"



REV. DATE: JAN 3, 2008 DRAWING No.: D-622-0015



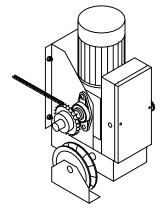




DRAWING No.: D-622-0018

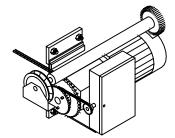
# OPERATOR MOUNTING HARDWARE PARTS LIST

"RG" DRIVE SYSTEM



ITEM No.	QTY. REQ'D	PART No.	DESCRIPTION		QTY. REQ'D	PART No.	DESCRIPTION	
1	1	604 <b>-</b> 0019	MASTERLINK	7	1	D-210-0027	RG OPERATOR MOUNTING BOLT KIT	
2	1	604-0020	HALFLINK	8	-	-	-	
3	1	107-0003	"J" CLIP	9	-	-	-	
4	1	604-0021	KEYSTOCK FOR OPERATOR DRIVE SPROCKET	10	-	-	-	
5	1	604-0022	KEYSTOCK FOR OPERATOR DOOR SPROCKET	11	-	-	-	
6	1	D-210-0025	"J" BOLT AND NUT KIT	12	-	-	-	

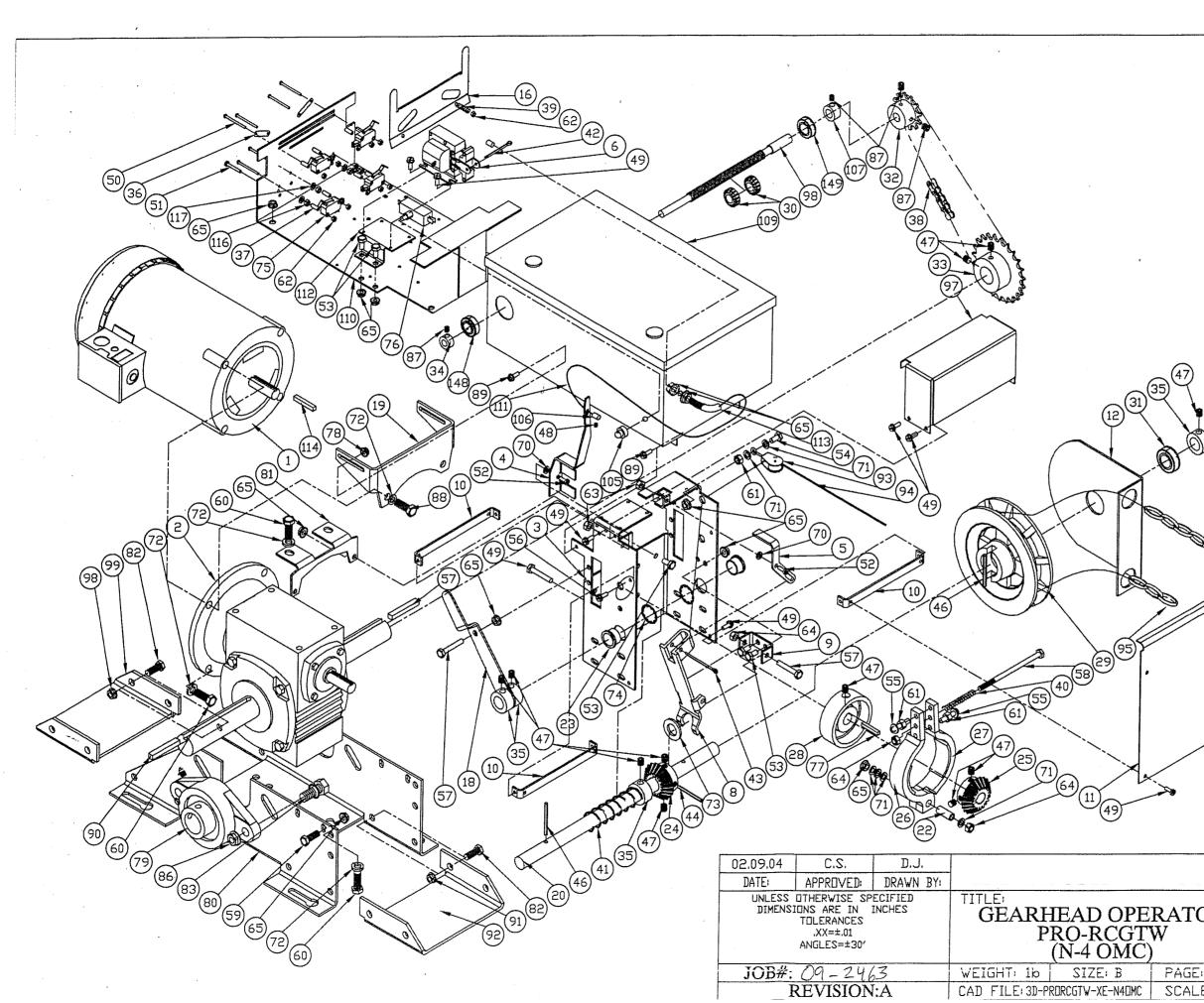
"HG" DRIVE SYSTEM



ITEM No.	QTY. REQ'D	PART No.	DESCRIPTION		QTY. REQ'D	PART No.	DESCRIPTION
1	1	604-0019	MASTERLINK	7	1	D-210-0026	HG OPERATOR MOUNTING BOLT KIT
2	1	604-0020	HALFLINK	8	-	-	-
3	1	107-0003	"J" CLIP	9	-	-	-
4	1	604-0021	KEYSTOCK FOR OPERATOR DRIVE SPROCKET	10	-	-	-
5	1	604-0022	KEYSTOCK FOR OPERATOR DOOR SPROCKET	11	-	-	-
6	1	D-210-0025	"J" BOLT AND NUT KIT	12	-	-	-



REV. DATE: JUNE 30,2006 DRAWING No.: D-622-0019



	TTE W#	PART#	DESCRIPTION	10	TY.]
	1	+	NOTOR		1
	2A 2B		REDUCER BHC 80 201 143TC (1,2HP) REDUCER BHC 80 201 182TC (3HP)		1
	3	MM00004	FRAME GEARHEAD		1
	4		SOLENOID LEVER GEARHEAD PIVUT BRACKET GEARHEAD		1
	6A	MK00026	STLENTED 110V		1
	6B 6C	MK00027	Solenoid 220V Solenoid 460V		
	6D	MK00029	SOLENOID 575V	1	
	8	MM00020	disconnect arm gearhead Support U-bracket		
	10	MM00007	FRAME SUPPERT C-BRACKETS		3
	11 12	MM00005	BACK COVER CHAIN GUIDE		
	16	MM00055	CAN PLATE2		
	18_	MM00026	CUT-OUT SVITCH ACTIVATION PLATE REAR BRACKET (55, 63, 70, 80, 143TC) 1,2HP		
	19B	MM00028	REAR BRACKET (182TC) 3HP	1	
	20	ME00008	DISCONNECT SHAFT 3/4" x15.75" HILD STEEL BUSHING 9/32"10 x 13/32"00 x 1-1/16"	1	
	23	MH00003	BREINZE FLANGED BUSHING 3/4"TD x 7/8"TD	2	
	24 25	MD00001	BEVEL GEAR 20 TOOTH 3/4/10 C/V KV 2SS BEVEL GEAR 20 TOOTH 5/6/10 C/V KV 2SS	1	
	1 26 1	M.00001 i	BRAKE SHITE LEFT	1	
	27	MJ00002	BRAKE SHOE RIGHT BRAKE SHOE DRUM		
	29	MI00003	POCKET WHEEL C/V 2PINS & BUSHING 3/4" ID	1	
	30 31	MG00030	LINIT CAN 1/2"-20UNF FLANGE BEARING 3/4" ID x 1-3/8" DD	2	
	32	•	SPROCKET 418 x 1/2"	1	
	33 34	•	SPROCKET 418 x 1-3/8" COLLAR 3/8" ID	1	
_	35	MH00008	CILLAR 3/4' ID	4	
47)	36	MM00069	Honeyvell double nut for limit svitch Limit svitch spacer 1/4'dia x 1/2" long	2	
<u></u>	38	MD00029	41 ROLLER CHAIN C/V CONNECTING LINK	1	
$\sum_{i=1}^{n} a_{i}$	39	MO00001	CAM PLATE COMPRESSION SPRING BRAKE COMPRESSION SPRING	2	-
<b>`</b> \$	41	MO00014	DISCINNECT SPRING	1	
	42	MQ00001	2017ER PIN 1/8" x 1-1/2" 2017ER PIN 1/8" x 2-1/2"	1	4
<b>(1</b> )	44	MO00005 1	SPRING PIN 3/16' x 1-1/2' 1 DNG	1	
	46	MQ00030  S	SPRING PIN 1/4" x 2-1/2" LONG SET SCREV 5/16"-18	2 12	-
)	48	MQ00010  s	SET SCREV 10-24	1	
	49	MG00005   H	LH SLITTED SELF ROUNDING VASHER HEAD SCREV 8-32 UNFx3/8" 2H PHILLIPS WACHINE SCREV 6-32UNC x 1-3/4"	<u>18</u> 8	-
	51	MF00004 18	24 PHILLIPS MACHINE SCREV 6-32UNC x 1'	2	コ
	52	MF00005 (R MF00006 (H	LH PHILLIP'S MACHINE SCREV 10-32UNC x 5/8" LH BOLT 1/4"-20UNC x 1/2" (FULL THREAD)	<u>2</u>	4
A	54	MF00008 [H	LH BOLT 1/4'-20UNC x 1' (FULL THREAD)	1	コ
	55	MF00048 (H	H BOLT 1/4'-20UNC x 1-1/4' (FULL THREAD) H BOLT 1/4'-20UNC x 2' (FULL THREAD)	2	-
Ø	57 1	MF00009  H	uh Bollt 1/4'-20UNC x 2-1/4' (NET FULL THREAD)	2	コ
	58	MF00044  H	H BOLT 1/4'-20UNC x 4' (NOT FULL THREAD) H BOLT 3/8'-16UNC x 1' (FULL THREAD)	1 8	-
	61	AG00006 H	EX NUT 1/4-20UNC	3 10	7
	63	AG00008  H	EX NYLDN NUT 6-32UNC EX NYLDN NUT 10-32UNC	2	Н
	64	/G00009 H	EX INLIN NUT 1/4"-20UNC IBBED HEX NUT 1/4"-20UNC	3	7
	70	/G00016 #	10 FLAT VASHER	18 6	-
•	71 N	/G00017 1/	/4' Flat Vasher DCK Vasher 3/B'	6 10	4
	73 N	AG00019	LAT VASHER 13/16'TD x 1-1/2" (3/4" SHAFT SIZE)	1	1
	74	AG00041 ISI	PRING CLIPS 7/8*TD DAT SVITCH (HONEYVELL)	2	+
	76	1K00005 (Cl	JTOUT SWITCH C/V NUT & VASHER	1	1
			EYVAY 3/16" SQ, x 1-1/4" LONG IBBED HEX NUT 10-32	1 2	+
	79 N	H00004 FI	ANGE BEARING UCFL 207 1-3/8"	2	1
		1M00008 FF	RAME GHC RDNT BRACKET	1	1
لو	82 M	IF00011 H	H BOLT 3/8'-16UNC x 3/4'	8	7
	96 11	1C00004 101	H BOLT 1/2"-13UNC x 1-1/4" BBED HEX NUT 1/2"-13UNC	4	1
	87 M	Q00009 SE	T SCREV 1/4"-20UNC	4	-
		F00046 H	H BOLT 3/8'-16UNC x 1-1/4'	4	1
	90	* KE	YVAY 5/16" SQ. x 3" LDN5 BBED HEX NUT 3/8"-16UNC	2	-
	92 M	M00149 GE	ARHEAD FRAME SUPPORT U-PLATE	2	1
	93 M	U00007 HE	AVY BUTY SVTVEL PULLEY 32° CABLE 25FT, LONG C/V CABLE STOP	1	4
	95 M	POOOOS HA	NTI CHATN	1	1
	96 M	F00007 HH	A BOLT 1/4'-20UNC x 3/4' 4 SOLENDID COVER	4	4
	98 M	E00028 N-	4 RCG/EDG 1 DUT SHAFT 1/2"-3/8" x 113 DNG	1	1
	105 M	K00098 IN-	4 CUTOUT SVITCH BODT JUSTABLE CABLE STOPPER	1	+ .
	107 M	H00027 CD	LLAR 1/2°D	1	1
TOD			4/N-4X 13' × 8' CONTROL BOX 4/N-4X 13' × 8' BACKPLATE	1	
TOR	111 M	R00007 1/1	6" CABLE (1'FT, LONG) C/V CABLE STOPPER	1	1
	112 M 113 M	M00082 SE	ENDED SUPPORT BRACKET	1	1
	114 M	200055 (KE)	YVAY 3/16" x 1-3/4" LONG	1	1
	116 M	300023 (HE)	K NJT 6-32	4	1
AGE: 1/1	118 MC	300012 RIB	IBED HEX NUT 5/16'-18UNC	2	1
CALE:	148 M 149 M	100096 PRE	CISION FLANGE BEARING 3/8'TD x 1-3/8'TD CISION FLANGE BEARING 1/2'TD x 1-3/8'TD	1	1
		THE REAL PROPERTY IN THE			•