

*OPENING QUALITY DOORS
AROUND THE WORLD*

ONE COMPANY | So Many Options

- Courion
- Security Fire Door
 - Harris Preble
 - Guilbert
 - Energy
- Cart-Matic

www.couriondoors.com

**Harris Preble Parts
& Maintenance**



HARRIS PREBLE REPLACEMENT PARTS
(manufactured by Courion)

- C-100 RETIRING CAM POWER UNIT - 220V
- C-148 RETIRING CAM MOTOR UNIT ASSEMBLY
- C-192 RETIRING CAM ASSEMBLY
- C-400 RETIRING CAM POWER UNIT - 110V

- D-110 GUIDE AND DOOR INSTALLATION
- D-110-D GUIDE AND DOOR INSTALLATION - DUAL OPERATORS
- D-132 REPLACEMENT PARTS LIST
- D-176 SHEAVE ASSEMBLY (obsolete)
- D-382 VISION PANEL INSTALLATION
- D-398 MANUAL DOOR LATCH ASSEMBLY
- D-513 CABLE CHAIN
- D-522 DOOR SHOES (regular and built out sill doors)
- D-523 DOOR SHOES (pass doors)
- D-682 SAFETY ASTRAGALS
- D-735 TRUCKING BAR ADJUSTMENT
- D-834 SPROCKET AND HOUSING ASSEMBLY
- D-866 AUTO LATCH INSTALLATION

- DC-4305 REVERSING EDGE SWITCH HOUSING ASSEMBLY
- DC-8003 SINGLE SECTION POWER GATE ASSEMBLY
- DC-8004 DOUBLE SECTION POWER GATE ASSEMBLY
- DC-8006 REVERSING EDGE ASSEMBLY
- DC-8010 M2 GATE OPERATOR
- DC-8019 GATE IDLER SPROCKET ASSEMBLY
- DC-8020 M4 GATE CYCLE CONTROL ASSEMBLY
- DC-8026 M3 GATE OPERATOR
- DC-8028 GATE CYCLE CONTROL AND IDLER SPROCKET
- DC-8033 M3V GATE OPERATOR
- DC-8082 GATE GUIDE SHOE
- DC-8088 M6 GATE OPERATOR
- DC-8089 GATE IDLER SPROCKET AND HOUSING
- DC-8090 M6 GATE CYCLE CONTROL
- DC-8129 M7 GATE CYCLE CONTROL
- DC-8133 M7 GATE OPERATOR WITH DC-364 MOTOR
- DC-8133 M7 GATE OPERATOR WITH DC-501 MOTOR

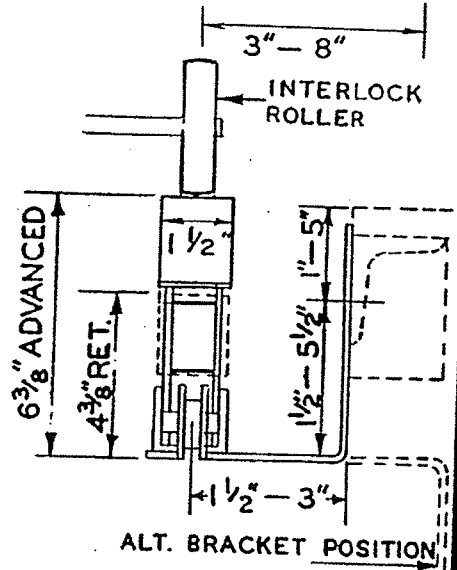
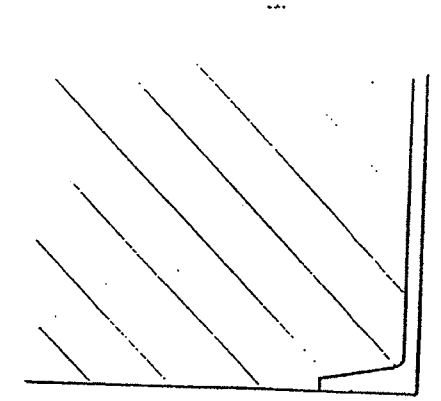
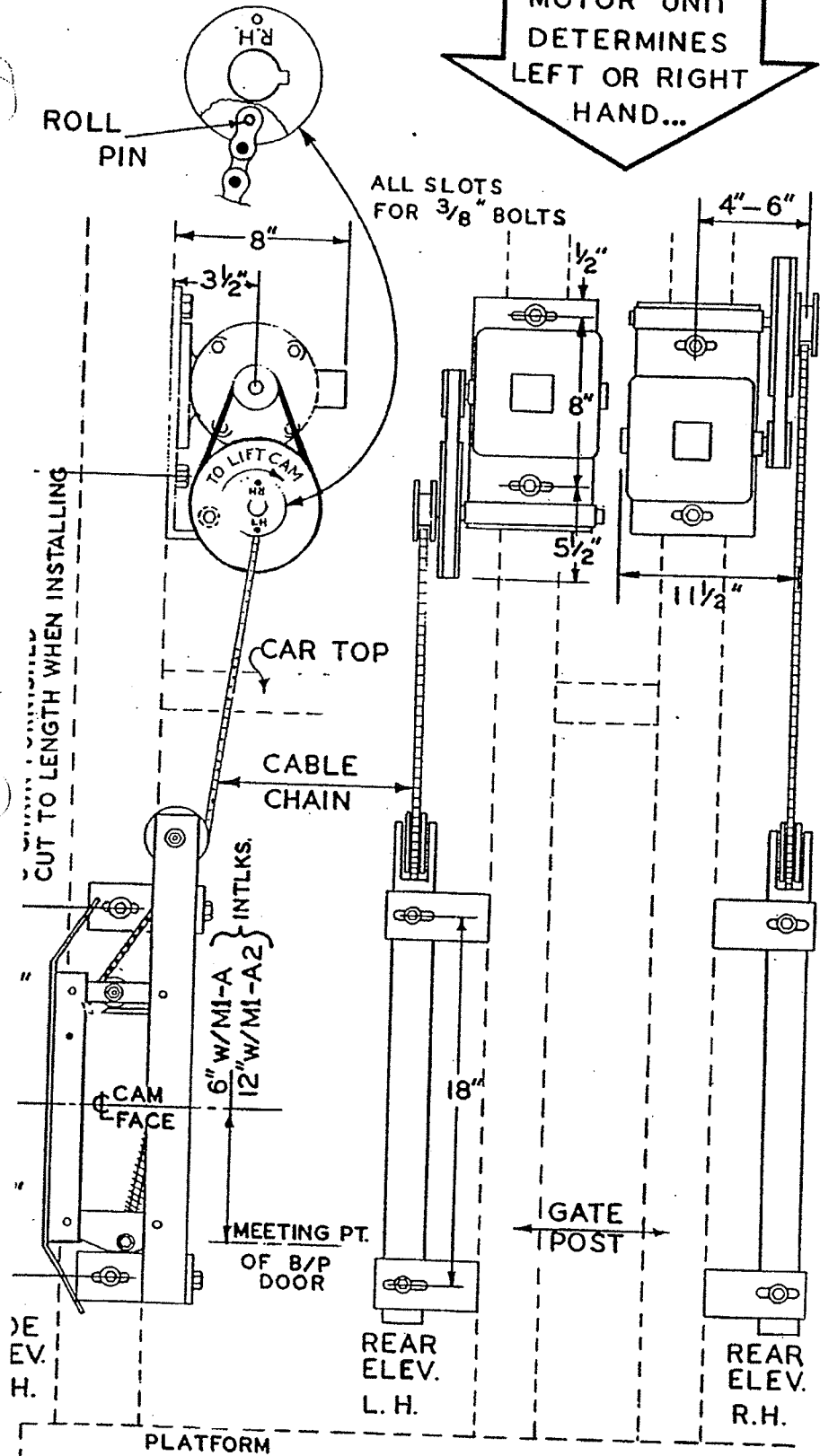


HARRIS PREBLE REPLACEMENT PARTS
(manufactured by Courion)

DC-9001	CYCLE CONTROL CAM ADJUSTMENT
DC-9002	DOOR OPERATOR INSTALLATION INSTRUCTIONS
DC-9009	CROSS DRIVE (obsolete)
DC-9009A	CROSS DRIVE
DC-9014	EQUALIZER CHAIN RACK ASSEMBLY
DC-9021	POWER OPERATED DOOR ASSEMBLY (regular type doors)
DC-9025	M4 DOOR OPERATOR
DC-9026	M4 DOOR OPERATOR
DC-9028	POWER OPERATOR DOOR ASSEMBLY
DC-9030	M5 DOOR OPERATOR
DC-9054	M6 DOOR OPERATOR
DC-9056	OPERATOR ADJUSTMENT PROCEDURE
DC-9057	M6 OPERATOR WITH SHORT SPANDREL
DC-9059	M6V DOOR OPERATOR
DC-9114	M8 DOOR OPERATOR
DC-9158	M9 DOOR OPERATOR WITH DC-501 MOTOR
DC-9158	M9 DOOR OPERATOR WITH DC-364 MOTOR
DC-9190	M9 DOOR OPERATOR
E-401	ELECTRICAL ABBREVIATIONS AND SYMBOLS
E-402	TERMINAL DESIGNATIONS
E-402A	AUXILIARY CONTACT BLOCKS
E-408	CONTROLLER PARTS LIST
G-180	SINGLE SECTION MANUAL GATE ASSEMBLY
G-181	DOUBLE SECTION MANUAL GATE ASSEMBLY
M1-136	M1-A AND M1-B INTERLOCK/SIDE ELEVATION
M1-201	M1 TAMPERPROOF DEVICE
M1-223	M1-B LOCK AND CONTACT
	M1-A AND M1-AZ INTERLOCK
R-203	EMERGENCY RELEASE WITH CONDUIT
R-212-A	EMERGENCY RELEASE

3

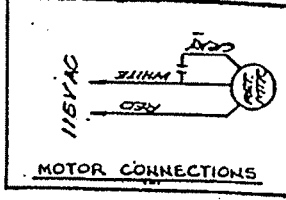
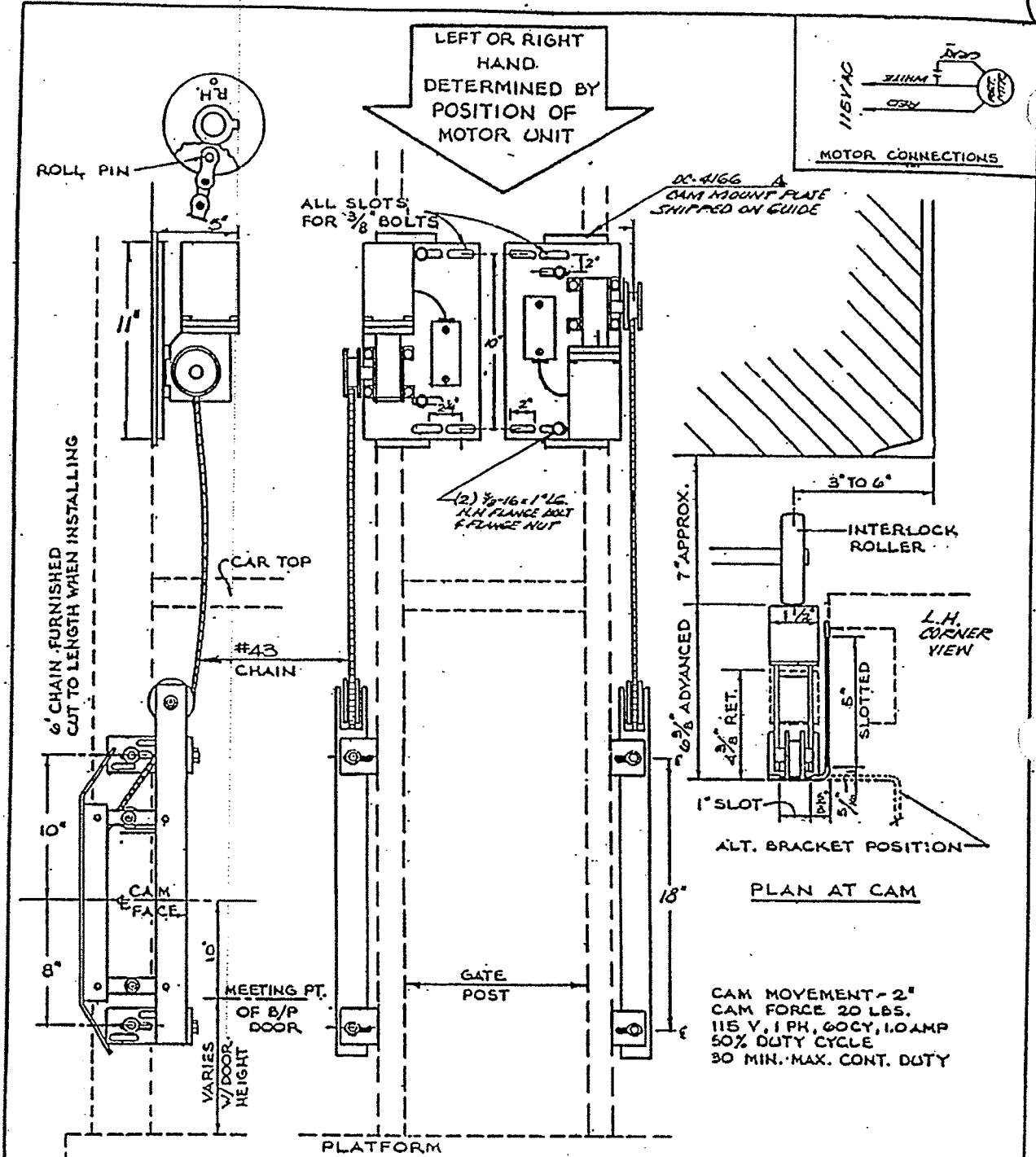
POSITION OF MOTOR UNIT DETERMINES LEFT OR RIGHT HAND...



PLAN AT CAM

CAM MOVEMENT-2"
 CAM FORCE 20 LBS.
 220 V, 3PH, 60CY, 1.0 A.
 50 % DUTY CYCLE
 30 MIN. MAX. CONT. DUTY

C-100 RETIRING CAM ASSEMBLY		REVISIONS 3-1-66	HARRIS PREBLE FIRE DOORS, INC. CHICAGO 50, ILL.
LEFT & RIGHT HAND			
		8-13-63	C-100

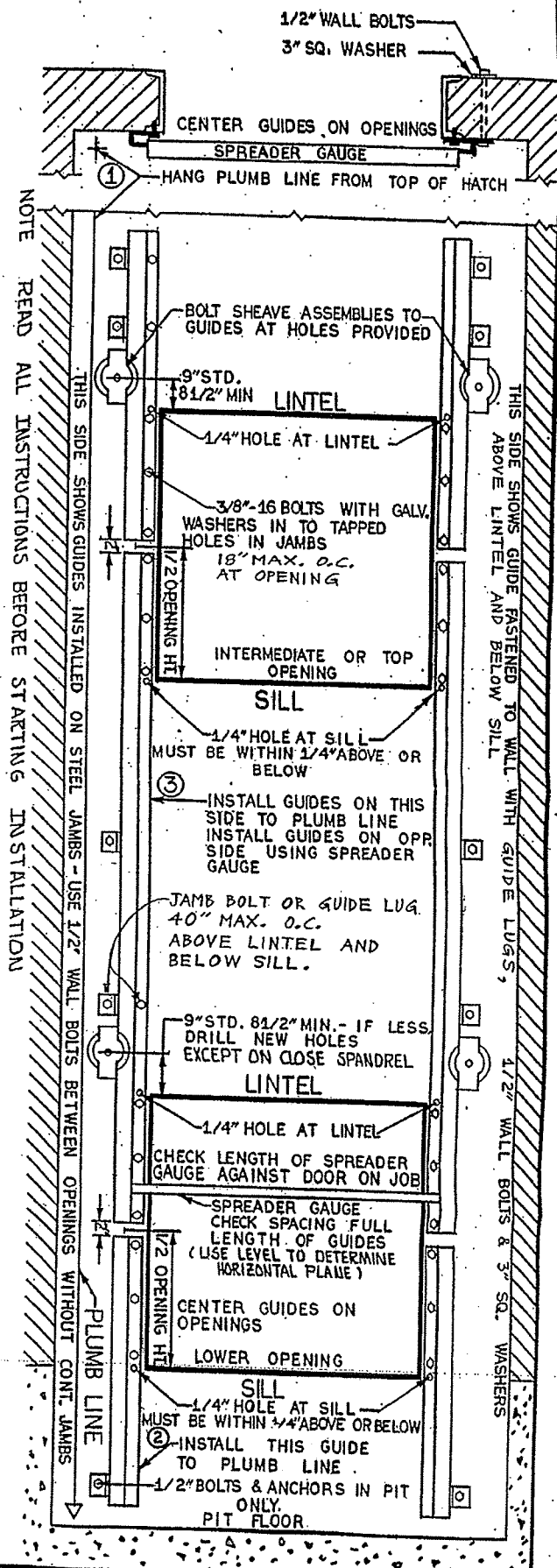


SIDE ELEV. L.H.

REAR ELEV. L.H.

REAR ELEV. R.H.

C-400 RETIRING CAM ASSEMBLY LEFT & RIGHT HAND			
SCALE: 1/2"	APPROVED BY:	DESIGNED BY: L.R.	DATE: 9/28/41
DATE: 6-20-30			
HARRIS PEARL COMPANY			ORIGINAL NUMBER C-400

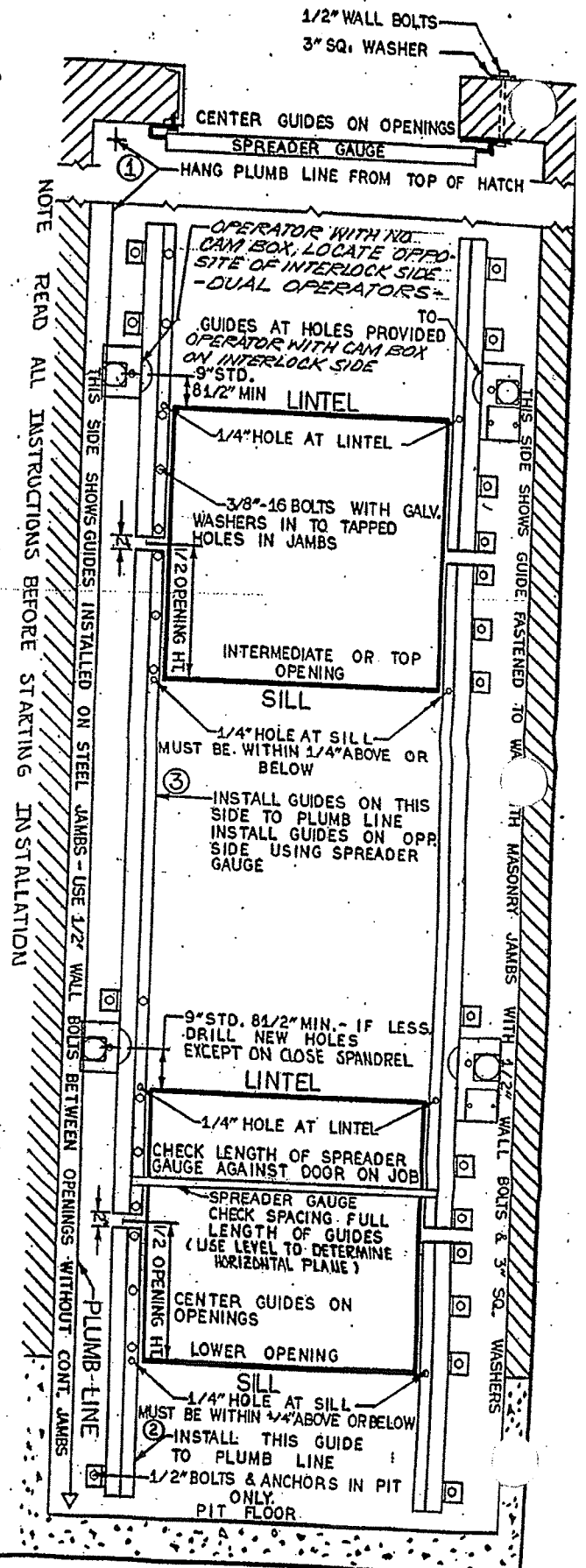


NOTE READ ALL INSTRUCTIONS BEFORE STARTING INSTALLATION

1. CHECK CAREFULLY THE NUMBER OF DOORS, BUNDLES OF GUIDES AND BOXES ON BILL OF LADING AGAINST EQUIPMENT RECEIVED.
2. CHECK CONTENTS OF BOX OR BOXES OF HARDWARE AND MISCELLANEOUS FITTINGS AGAINST PACKING LIST.
3. THE GENERAL PROCEDURE FOR ERECTION IS COVERED BY THE HATCH SECTION ON THIS SHEET. FOLLOW STEPS 1 THRU 3 AND OTHER INSTRUCTIONS CAREFULLY. 1/4" HOLE AT SILL MUST BE WITHIN 1/4" ABOVE OR BELOW SILL FOR TAMPER-PROOF REVEAL ON INTERLOCK TO BE INSTALLED AND ADJUSTED.
4. REMOVE GUIDE SHOE ANGLE FROM ONE SIDE OF LOWER DOOR PANEL. SET THIS ANGLE WITH GUIDE SHOES IN POSITION ON GUIDE. REPEL ANGLE ON DOOR, PUSHING UPWARD ON ANGLE TO ENGAGE SLOT WITH SET AND REPLACE BOLTS. SET LOWER DOOR PANEL IN OPEN POSITION ON TRUCKING BAR SUPPORT AND BLOCK UPPER PANEL IN OPEN POSITION.
5. AFTER DOOR PANELS HAVE BEEN INSTALLED IN GUIDES, INSTALL AUTO-LATCHES ON UPPER DOOR PANEL USING 1/2" NUTLOCK BOLTS IN TAPPED HOLES IN BRACKETS ON AUTO-LATCH ROLLERS ARE SHIPPED IN PLACE ON LOWER DOOR PANEL.
6. INSTALL CHAIN RODS IN CHAIN ROD SOCKETS, FEED CHAIN OVER SHEAVES AND ATTACH TO AUTO-LATCHES WITH CLEVIS PINS. SET LOWER DOOR LEVEL AND EVEN WITH LOWEST POINT OF BUILDING SILL BY ADJUSTING TRUCKING BAR SUPPORTS ON GUIDES. ADJUST UPPER PANEL LEVEL AND EVEN WITH HIGHEST POINT OF LINTEL WITH NUTS ON CHAIN RODS. DOOR WHEN OPEN MUST BE LEVEL WITH LINTEL AND WHEN CLOSED UPPER EDGE OF LOWER PANEL MUST BE 1/2" OPENING HEIGHT FOR BI-PARTING DOORS.

7. INSTALL TAMPER-PROOF DEVICE AND HI-A INTERLOCK OR HI-B LOCK AND CONTACT WITH 3/8" BOLTS AND NUTS THRU SLOTTED HOLES IN INTERLOCK AND HOLES IN GUIDES AS PER HI-201 AND HI-136. THE CHAIN ROD SOCKETS ARE LOCK ENGAGING MEMBERS. ADJUST INTERLOCK HEIGHT AND RATCHET BLOCK (HI-108) TO FULLY ENGAGE TOOTH ON CHAIN ROD SOCKET. ADJUST TRUCKING BAR FOLLOWER TONGUE (HI-102A) TO MAKE CONTACT WHEN DOOR IS CLOSED.
8. ATTACH PULL STRAPS. INSTALL VISION PANEL.
9. COMPLETE THE INSTALLATION OF ALL DOORS IN THIS MANNER, THEN INSTALL STATIONARY KIT OR RETIRING CAM ON CAR AS REQUIRED.

6-1/2-36124W GUIDE AND DOOR ERECTION		REVISIONS	
DATE	BY	DESCRIPTION	APPROVED
7-23-69			
HARRIS PRESALE FIRE DOORS, INC.		SCALE NONE	
1-9-67		D-110	

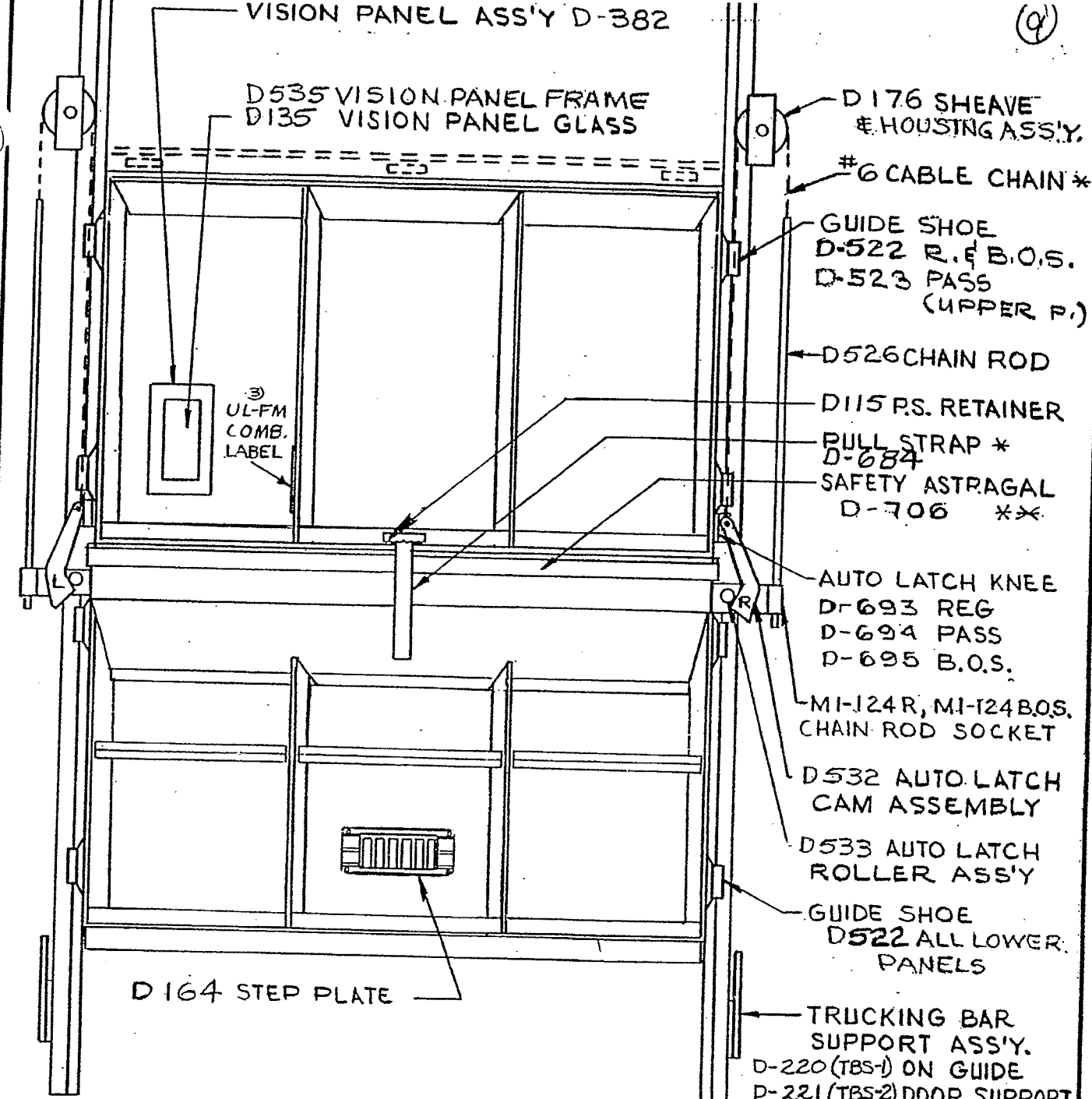


1. CHECK CAREFULLY THE NUMBER OF DOORS, BUNDLES OF GUIDES AND BOXES ON BILL OF LADING AGAINST EQUIPMENT RECEIVED.
2. CHECK CONTENTS OF BOX OR BOXES OF HARDWARE AND MISCELLANEOUS FITTINGS AGAINST PACKING LIST.
3. THE GENERAL PROCEDURE FOR ERECTION IS COVERED BY THE HATCH SECTION ON THIS SHEET.
FROM STEPS 1 THRU 3 AND OTHER INSTRUCTIONS CAREFULLY.
1/4" HOLE AT SILL MUST BE WITHIN 1/4" ABOVE OR BELOW SILL FOR TAMPER-PROOF DEVICE ON INTERLOCK TO BE INSTALLED AND ADJUSTED.
4. REMOVE GUIDE SHOE ANGLE FROM ONE SIDE OF LOWER DOOR PANEL.
REPLACE ANGLE WITH GUIDE SHOES IN POSITION ON GUIDE.
SET LOWER DOOR PANEL IN OPEN POSITION ON TRUCKING BAR SUPPORT AND BLOCK UPPER PANEL IN OPEN POSITION.
5. AFTER DOOR PANELS HAVE BEEN INSTALLED IN GUIDES, INSTALL AUTO-LATCHES ON UPPER DOOR PANEL USING 1/2" ANTILOCK BOLTS IN TAPPED HOLES IN BRACKETS ON AUTO-LATCH ROLLERS ARE SHIPPED IN PLACE ON LOWER DOOR PANEL.
6. INSTALL CHAIN RODS IN CHAIN ROD SOCKETS, FEED CHAIN OVER SHEAVES AND ATTACH TO AUTO-LATCHES WITH CLEVIS PINS. SET LOWER DOOR LEVEL AND SUPPORTS ON GUIDES.
ADJUST UPPER PANEL LEVEL AND EVEN WITH HIGHEST POINT OF LINTEL WITH NUTS ON CHAIN RODS.
DOOR WHEN OPEN MUST BE LEVEL WITH LINTEL AND WHEN CLOSED UPPER EDGE OF LOWER PANEL MUST BE 1/2" OPENING HEIGHT FOR BI-PARTING DOORS.

SECTION	GUIDE AND DOOR ERECTION
SUB-SECTION	DUAL OPERATORS
DATE	7-25-63
SCALE	NONE
PROJECT	HARRIS PIRELLA FIRE DOORS, INC. CHICAGO, ILL.
WORK ORDER NO.	D-1100

7. INSTALL TAMPER-PROOF DEVICE AND N1-A INTERLOCK OR N1-B LOCK AND CONTACT WITH 3/8" BOLTS AND NUTS THRU SLOTTED HOLES IN INTERLOCK AND HOLES IN THE CHAIN ROD SOCKETS ARE LOCK ENGAGING MEMBERS.
ADJUST INTERLOCK HEIGHT AND PATCHET BLOCK (Q1-20B) TO FULLY ENGAGE TOOTH ON CHAIN ROD SOCKET.
ADJUST TRUCKING BAR FOLLOWER TONGUE (Q1-20A) TO MAKE CONTACT WHEN DOOR IS CLOSED.
8. ATTACH PULL STRAPS.
INSTALL VISION PANEL.
9. COMPLETE THE INSTALLATION OF ALL DOORS IN THIS MANNER, THEN INSTALL STATION-ARY OR RETRIVING CAM ON CAR AS REQUIRED.

NOTE READ ALL INSTRUCTIONS BEFORE STARTING INSTALLATION



WHEN ORDERING PARTS GIVE SERIAL NO
ON UNDERWRITERS LABEL & WIDTH &
HEIGHT OF DOOR OPENING

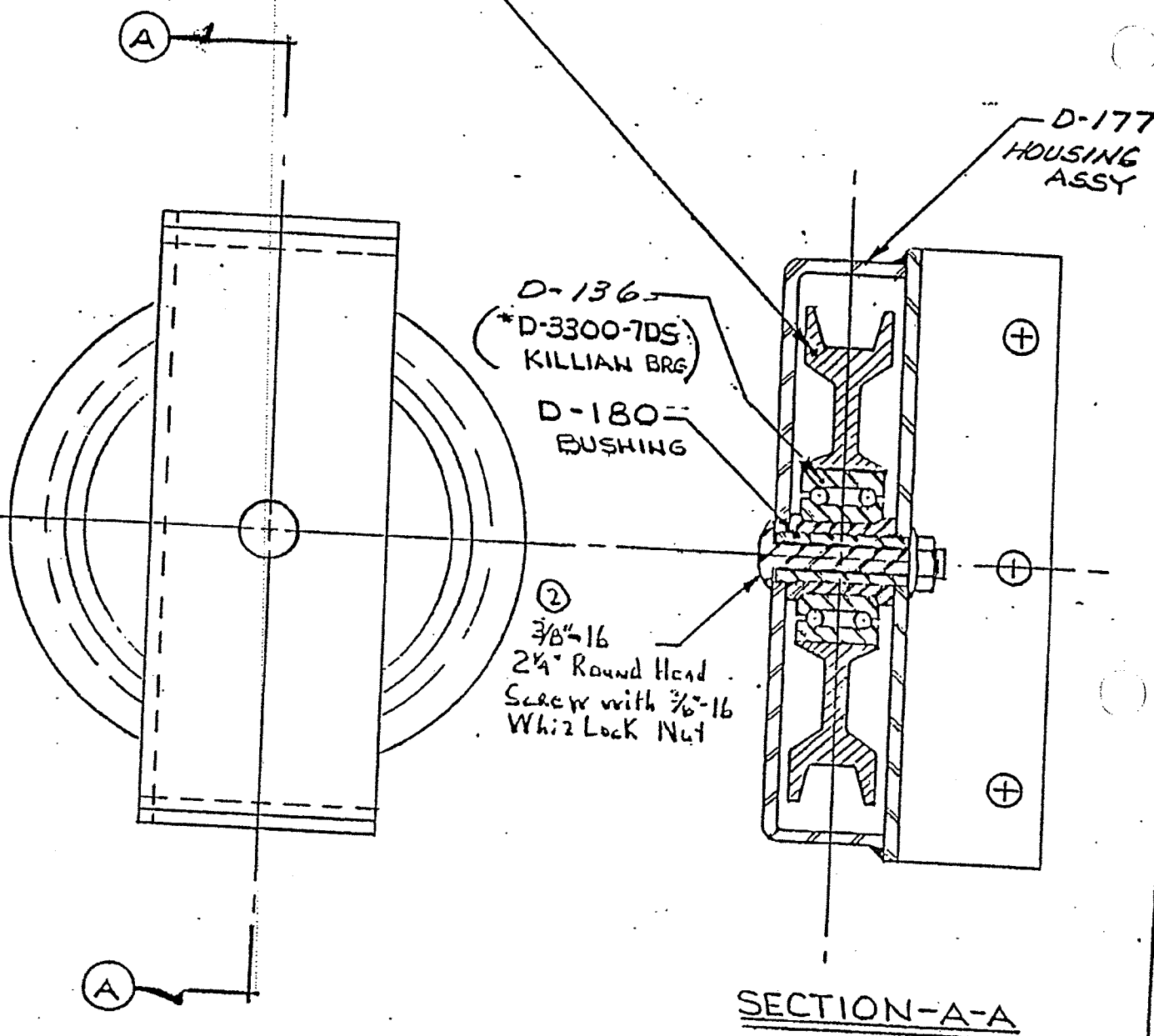
PARTS MARKED * OR ** CANNOT BE
FURNISHED WITHOUT THIS INFORMATION

FRACTIONAL DIM. ± 1/64"
DECIMAL DIM. AS SHOWN

9 ECO 977-11-278 ③ ECO 255-12-217 EOD-217 6-2-71 02-14-68					PARTS LIST U.L. LABELLED DOOR					HARRIS PREBLE FIRE DOORS, INC. CHICAGO 60650		
REVISIONS					APP'D		CHECKED		DWN. BY		SCALE	
									DATE 2-14-68		DWG. NO. D-132	

HAS BEEN DISCONTINUED
 TO REPLACE ENTIRE UNIT (D-176)
 SEE DRAWING NO. D-834

(10)



ELEVATION

SECTION-A-A

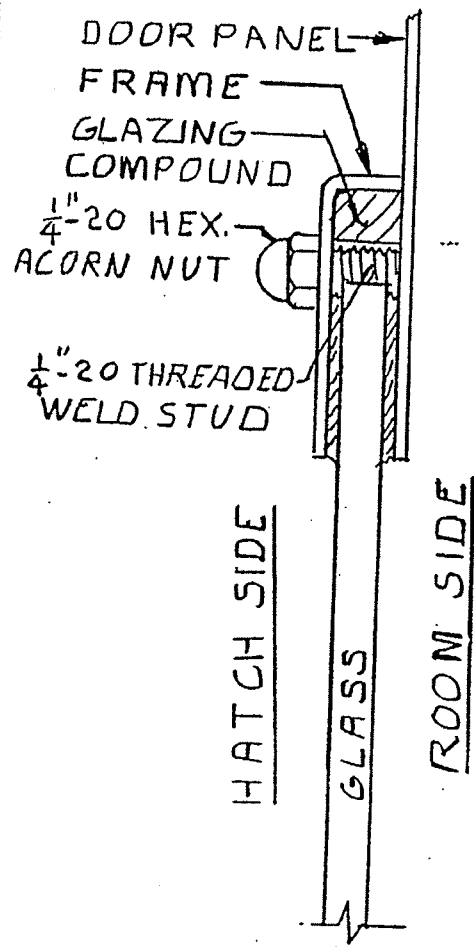
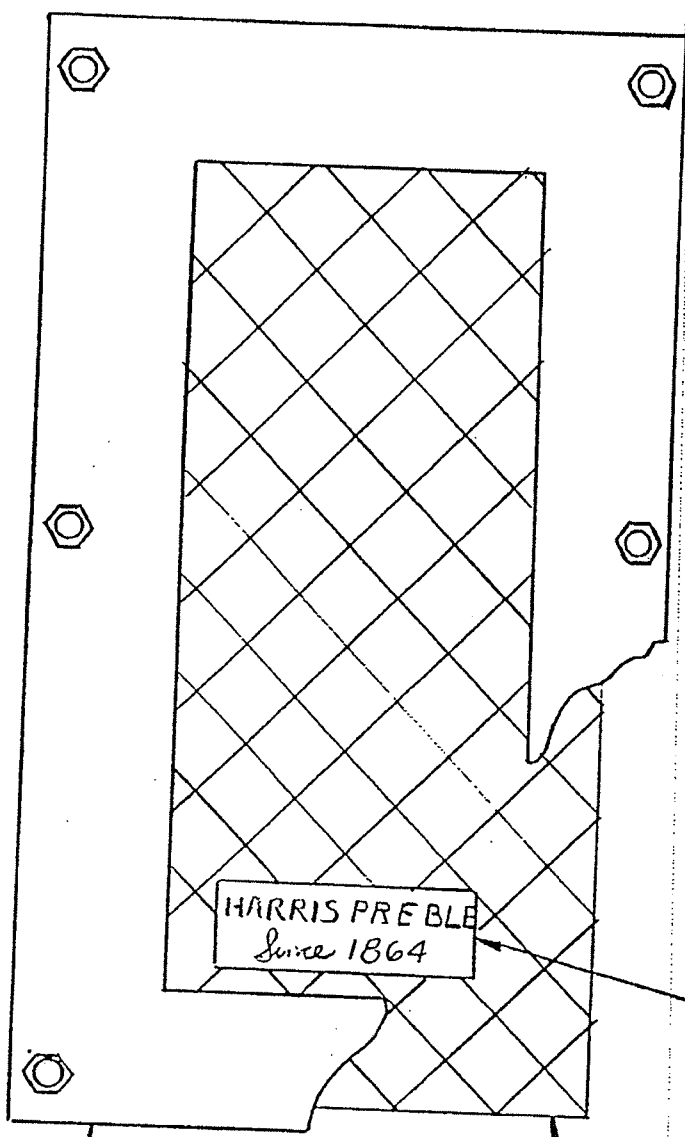
① ASS'Y WEIGHT 8 lbs

REF. SHEET #20 NEXT ASSY DC-9021

FRACTIONAL DIM. ± 1/64"
 DECIMAL DIM. AS SHOWN

6-20-78 P/A 461 L.S. 72 266		SHEAVE & HOUSING ASSEMBLY			HARRIS PREBLE FIRE DOORS, INC. CHICAGO 60650	
		* 650 SHEAVE			DATE	
REVISIONS	APP'D	CHECKED	OWN. BY	SCALE	DATE	DWG. NO.
		<i>NLD</i>	<i>AJK</i>	NONE	5-29-67	D-176

(11)



HARRIS PREBLE
Since 1864

D-268
LABEL

HATCH SIDE
HALF SIZE

D-535 WT. 1.3 lbs.
FRAME

D-135 WT 1.55 lbs.
GLASS

REF 35.3

FRACTIONAL DIM. ± 1/64"
DECIMAL DIM. AS SHOWN

VISION PANEL INSTALLATION
MZF STEEL PLATE DOORS

HARRIS PREBLE
COMPANY
CHICAGO 60650

DRAWN
12-10-80

REVISIONS

APP'D

CHECKED

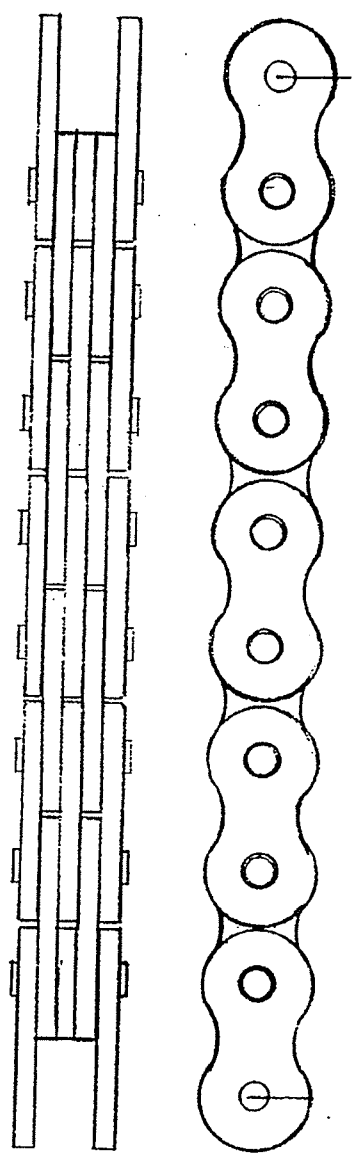
DWN. BY
JF

SCALE 1/2" = 1"

DATE
12-10-80

DWG. NO.
D-382

13



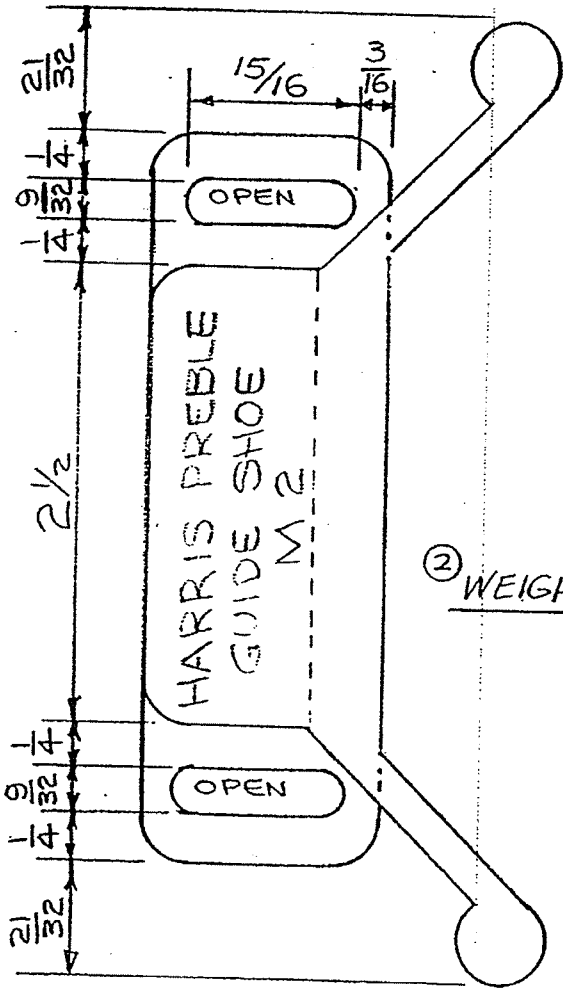
FRACTIONAL DIM. $\pm 1/64$ "
DECIMAL DIM. AS SHOWN

#6 CABLE CHAIN
BL523 leaf

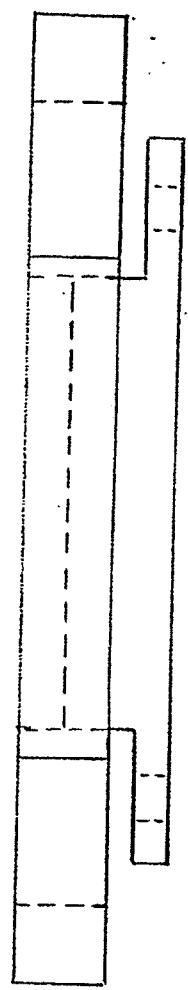
HARRIS PREBLE
COMPANY
CHICAGO 60650

REVISIONS	APP'D	CHECKED	OWN. BY	SCALE	DATE	
				FULL	4-1-79	D-513

14



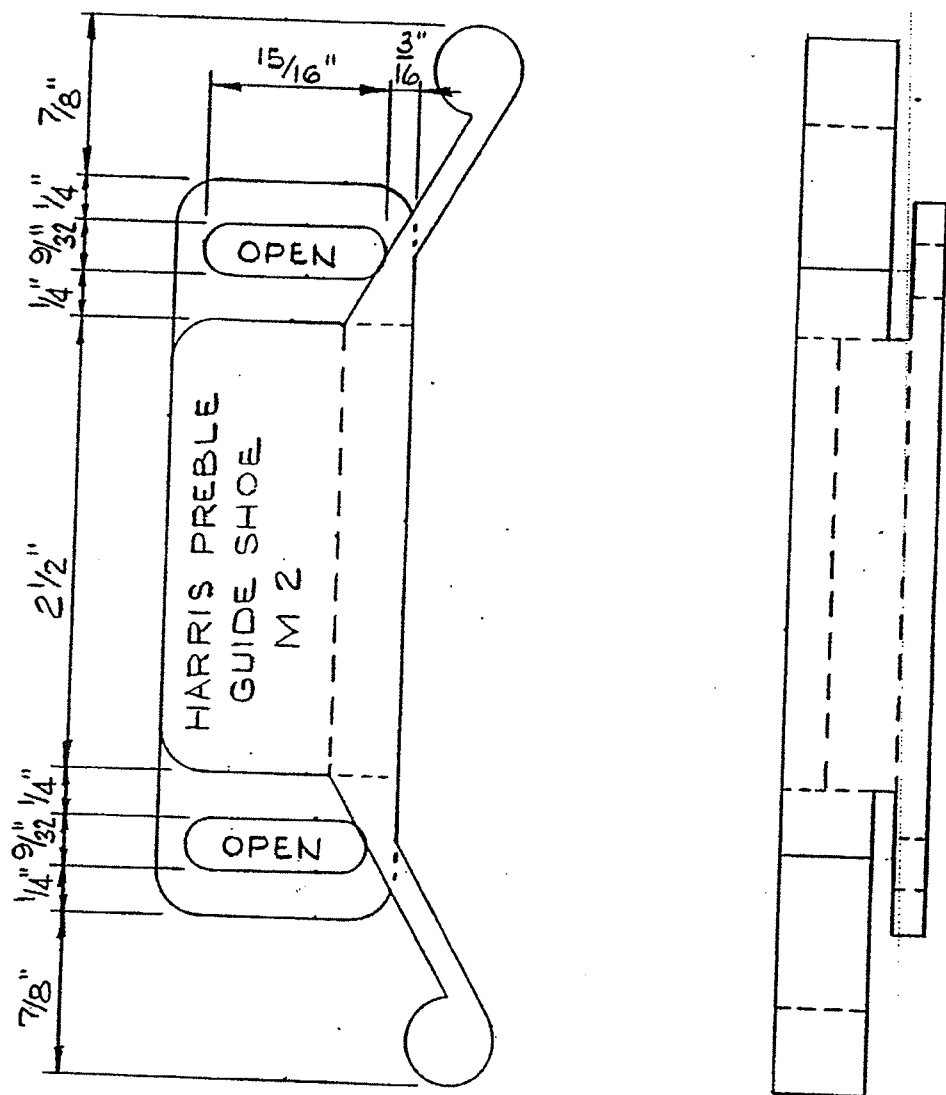
② WEIGHT .8 lbs



PATTERN NO. M-2

FRACTIONAL DIM. ± 1/64"
DECIMAL DIM. AS SHOWN

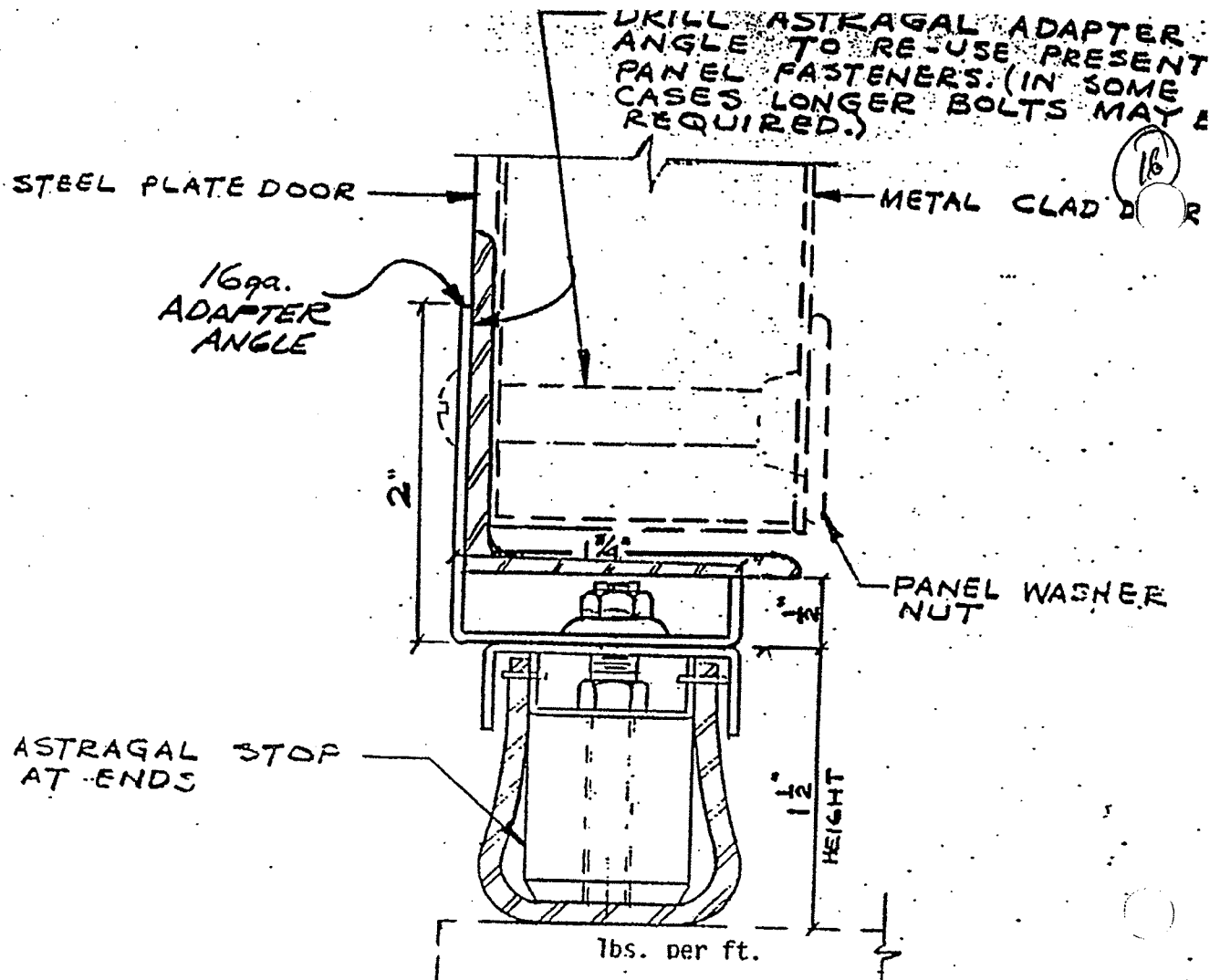
GUIDE SHOE				HARRIS PREBLE FIRE DOORS, INC. CHICAGO 60650	
REGULAR & BUILT OUT SILL DOORS					
M2 STEEL PLATE -M3 METAL CLAD & M1 INS. PANEL				DATE	
REVISIONS		APP'D		DWG. NO.	
		CHECKED		DATE	
		DWN. BY		DATE	
		JWS		5-7-68	
		SCALE		DWG. NO.	
		FULL SIZE		D-522	



MATERIAL: CAST MALL. IRON
4 REQ'D. PER PANEL

FRACTIONAL DIM. ± 1/64"
DECIMAL DIM. AS SHOWN

GUIDE SHOE		HARRIS PREBLE	
PASS TYPE UPPER PANEL ONLY		FIRE DOORS, INC.	
M2 STEEL PLATE - M3 METAL CLAD & M1 INS. PANEL		CHICAGO 60650	
REVISIONS	APP'D	DATE	DWG. NO.
20125-67-71		5-9-68	D-523
CHECKED	DWN. BY	SCALE	
<i>JWS</i>	MK	FULL	



SOLID LINES INDICATE MATERIALS FURNISHED BY HARRIS PREBLE

N.B. Astragals same as used on our U.L. and F-M labelled doors which were successfully tested and approved.

INFORMATION REQUIRED FOR PLACING ORDER:

1. Width of door opening
2. Size of panel frame angle

INSTALLATION INSTRUCTIONS

1. Remove present overlapping astragal complete.
2. Install new safety astragal as shown above.
3. Relocate present interlocks and latch catches. (Up if on top panel; down if on bottom panel.)
4. Re-balance doors if necessary.

ASTRAGAL ONLY D-700 (ASTRAGAL ASST.)

FRACTIONAL DIM. ± 1/64"
DECIMAL DIM. AS SHOWN

<p>SAFETY ASTRAGALS ADAPTABLE TO EXISTING EQUIPMENT</p>		<p>HARRIS PREBLE COMPANY CHICAGO 60650</p>				
		<p>PATENT NO. 4224767</p>	<p>DATE 10-8-79</p>			
<p>ECO 492 10-8-79</p>	<p>REVISIONS</p>	<p>APP'D RM</p>	<p>CHECKED SV.</p>	<p>DWN BY F.B</p>	<p>SCALE FULL</p>	<p>DWG. NO. D-60</p>

HOUSING ASSEMBLY
D-837

SPROCKET & HUB
ASSEMBLY D-840

BEARINGS
DC-1162

SHOULDER BOLT
 $\frac{3}{4}$ " X 2.64"

NOTE:
ASSEMBLED WEIGHT 8LBS.

SECTION 'A-A'

HARRIS PREBLE COMPANY
CHICAGO, ILLINOIS

SCALE: HALF APPROVED BY:

DATE: 10-4-90

DRAWN BY B.H.T.

REVISED 10-4-90

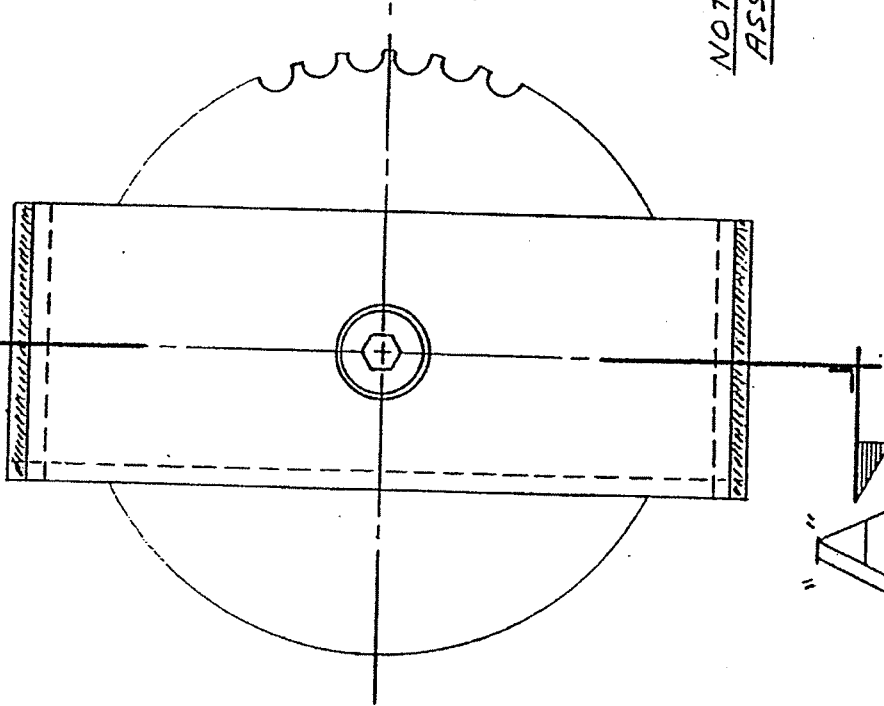
SPROCKET & HOUSING ASSEMBLY

REPLACES D-176

DRAWING NUMBER
D-834

"A"

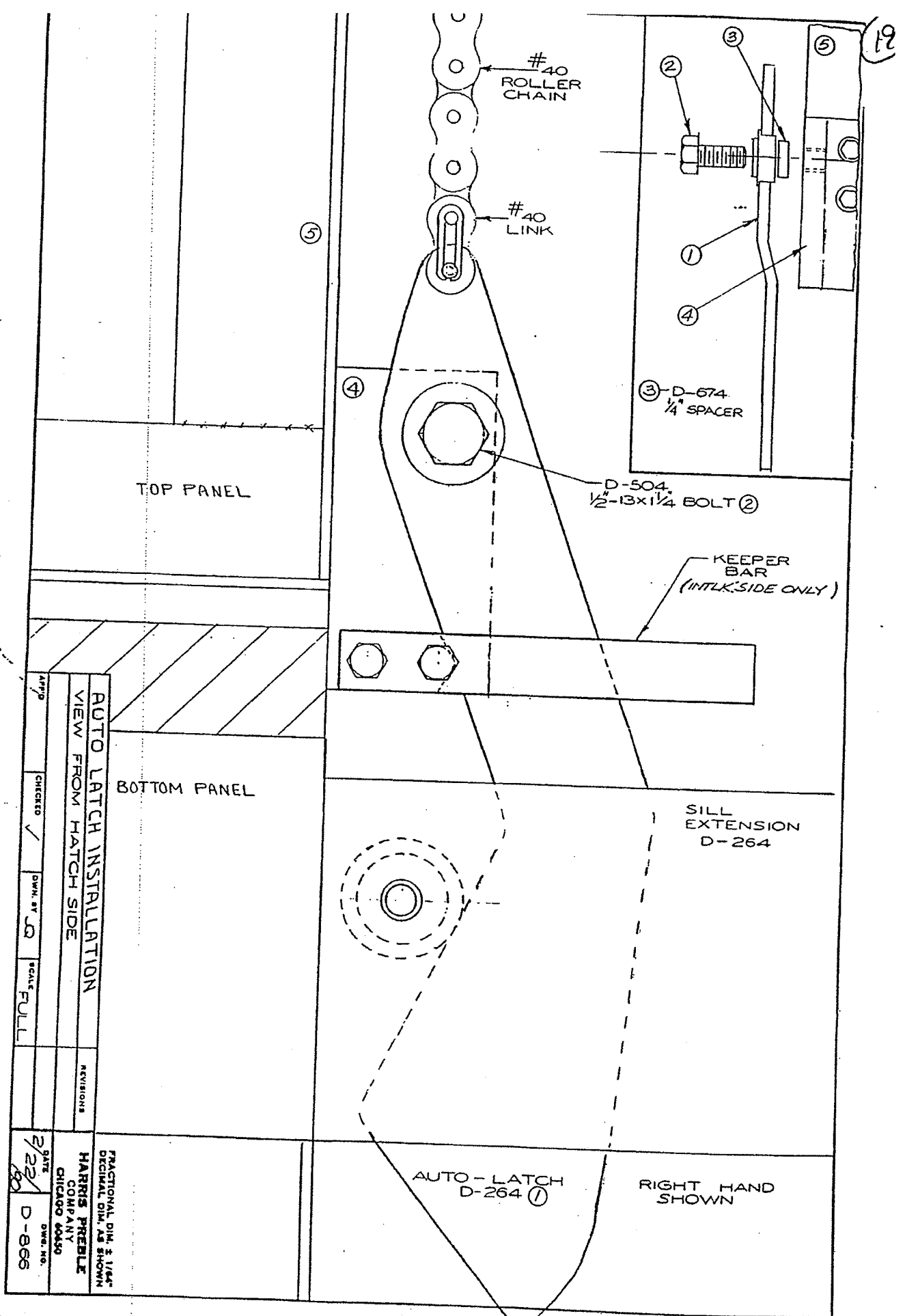
"A"



NOTE:
USE WITH NO 40
ROLLER CHAIN

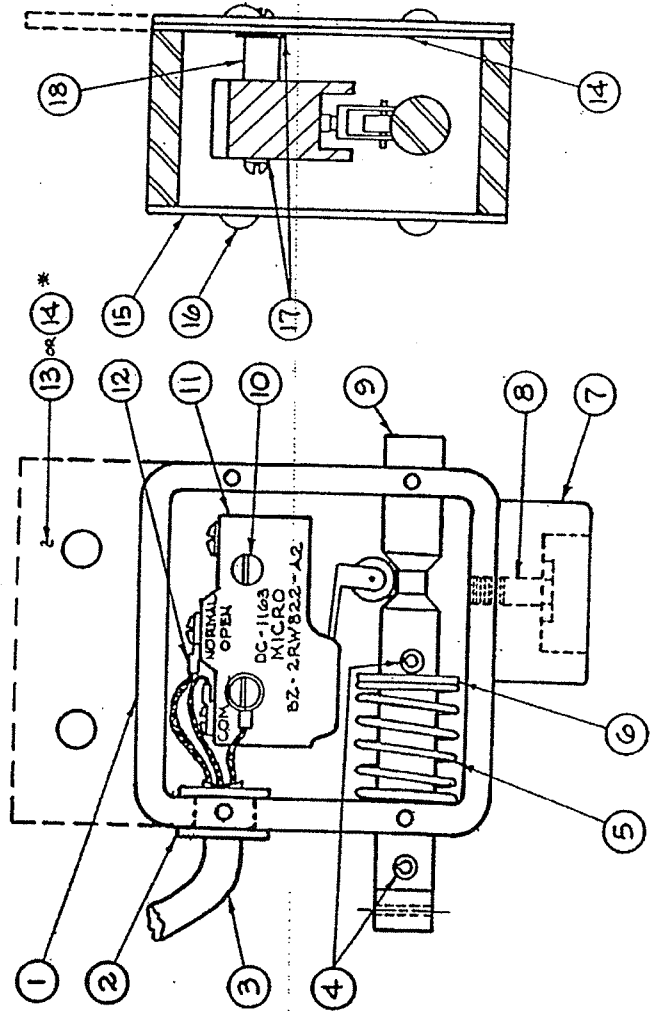
REF. SHEET # 20

SYMBOL	DATE	REVISIONS	BY
A	10-4-90	REDRAWN TO REF. EST. CURRENT DATA	TMS



APPRO	CHECKED	OWN. BY	SCALE	DATE	REV. NO.
	✓	R	FULL	2/22/50	D-866
AUTO LATCH INSTALLATION				HARRIS PREBLE	
VIEW FROM HATCH SIDE				COMPANY	
REVISIONS				CHICAGO 40450	
FRACTIONAL DIM. 3/16"				DECIMAL DIM. AS SHOWN	

ITEM	PART NO.	DESCRIPTION	QT
1	DC-4024	HOUSING	1
2	DC-4051	GROMMET	1
3	E-1081	#18-3 WIRE SJO CORD	1
4		3/16" x 3/4" LG. ROLL PIN	2
5	DC-4031	SPRING	1
6	DC-4030	WASHER	1
7	DC-4048	BUMPER	1
8		1/4" x 1/2" LG. HEX. HD. SCREW	1
9	DC-4028	ACTUATOR	1
10		#6-32 x 1 1/2" LG. RD. HD. N.S.	2
11	DC-1163	MICRO SWITCH BZ-2RW822-A2	1
12		R-2013 INSULATED TERMINAL	2
13	DC-4026*	PLATE	1
14	DC-4027*	PLATE	1
15	DC-4027	PLATE	1
16		#8-32 x 3/8" TAPTITE PHIL. HD. SCR.	8
17		#6 IN. S.P. LOCK WASHER	2
18	DC-4054	THREADED SPACER	2



* NOTE:
 USE DC-4026 IN PLACE OF DC-4027A
 FOR REVERSING EDGE PART
 REPLACEMENT IN FIELD ONLY.

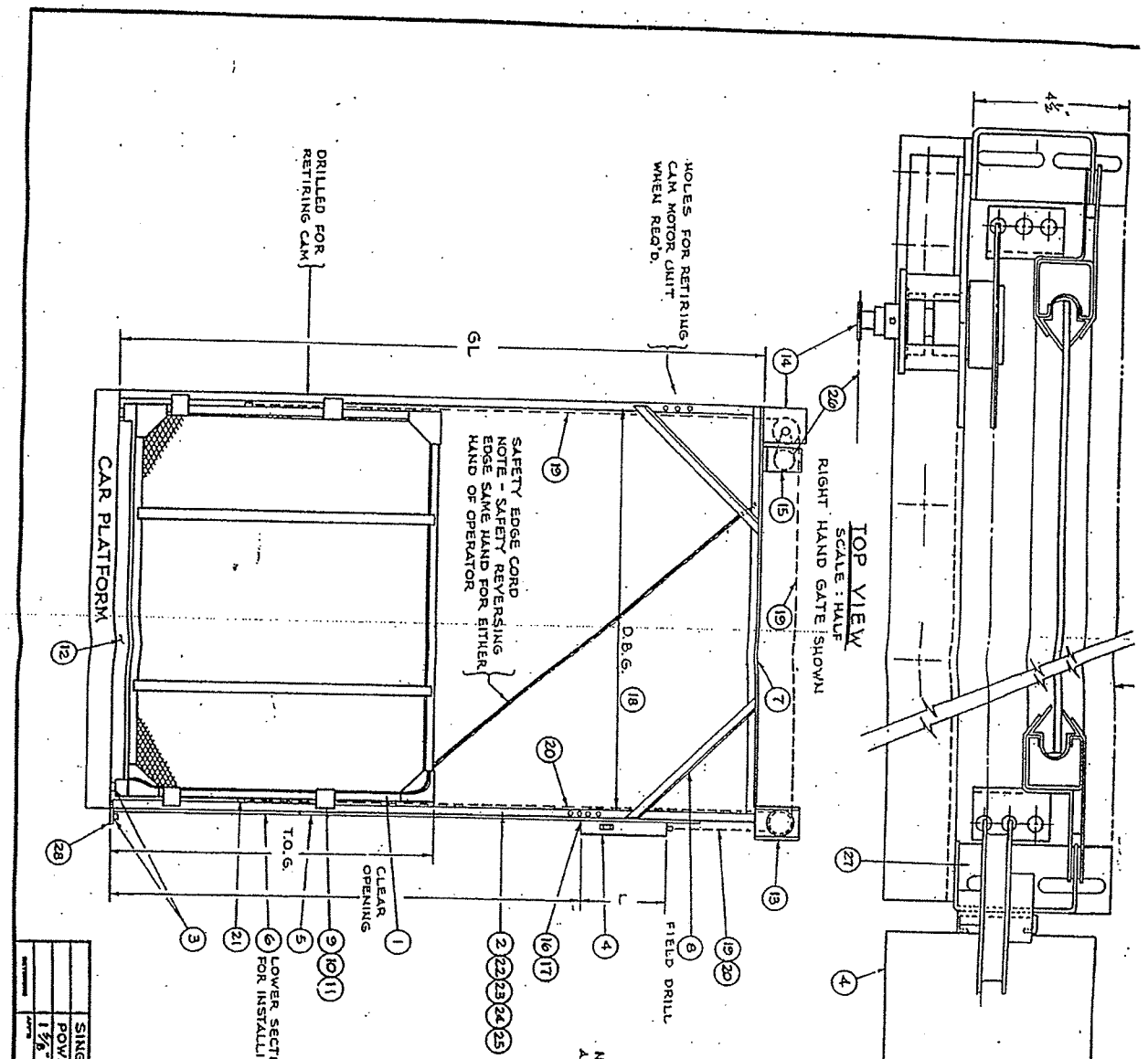
SWITCH HOUSING ASSEMBLY
 REVERSING EDGE
 POWER OPERATED CAR GATE

SCALE: FULL
 APPROVED BY: [Signature]

DATE: 6-4-87
 DRAWN BY: JAA
 REVISED

HARRIS PREBLE COMPANY
 DRAWING NUMBER
 DC-4305

11 X 17 PRINTED ON NO. 1100K CLEARPRINT

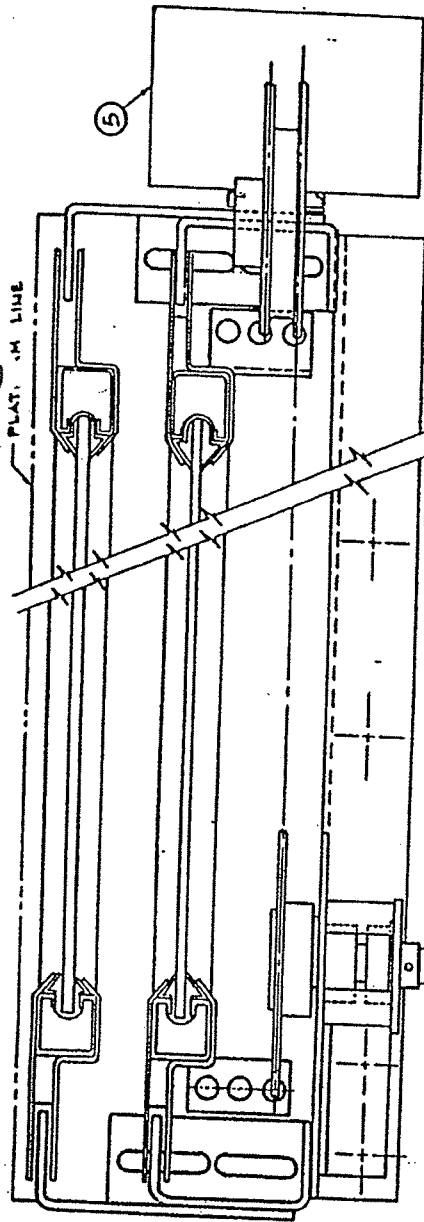


1	DC-8086	GATE ASSEMBLY 1 1/2" UNISTRAT	1
2	DC-4170	GATE GUIDE (22" MIN.)	2
3	DC-4048	RUBBER BUMPER	3
4	DC-8028	CWT ASSEMBLY	1
5	DC-4005	CWT GUIDE 3'0" LONG	1
6	DC-4005	CWT GUIDE 3'0" LONG	1
7	DC-4121	TOP SPREADER ANGLE	1
8	DC-4211	SWAY BRACE 4'-2" x 2" x 1/8"	2
9	DC-4208	GUIDE SHOE SPACER	4
10	DC-4208	GATE GUIDE SHOE	4
11	DC-4208	GATE GUIDE SHOE	4
12	DC-8000	SAFETY REVERSING EDGE (1/2" MIN.)	1
13	DC-9161	M1 - GATE OPERATOR	1
14	DC-8028	GATE INDER SPRCKET ASS'Y	1
15	SEE NOTE 'A'	M1 - CYCLE CONTROL	1
16	DC-4050	PAYNE 68 CONTACT	1
17	DC-4046	GATE CONTACT BRACKET	1
18		SPREADER GAUGE	1
19		1/2" GATE CHAIN	1
20	DC-4016	ADJUSTMENT SCREW 1/4" DIA	2
21		HEX HD. CAP SCR. 3/8" x 1 1/2" LG.	12
22		HEX HD. CAP SCR. 3/8" x 1 1/2" LG.	4
23		HEX HD. CAP SCR. 3/8" x 1 1/2" LG.	4
24		HEX HD. NUT 3/8" - 16 UNC	32
25		425 ROLLER CHAIN	1
26	DC-4224	GATE GUIDE FOOT	2
27	DC-4004	CWT STOP ANGLE	1
28			1

NOTE:
 A. FOR DOORS 8'-0" HIGH OR LESS USE DC-8129 ASS'Y.
 B. FOR DOORS 8'-0" TO 12'-0" HIGH USE DC-8132.

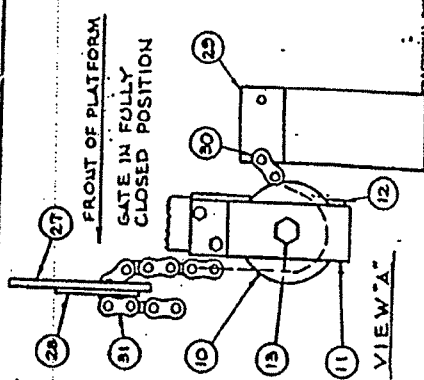
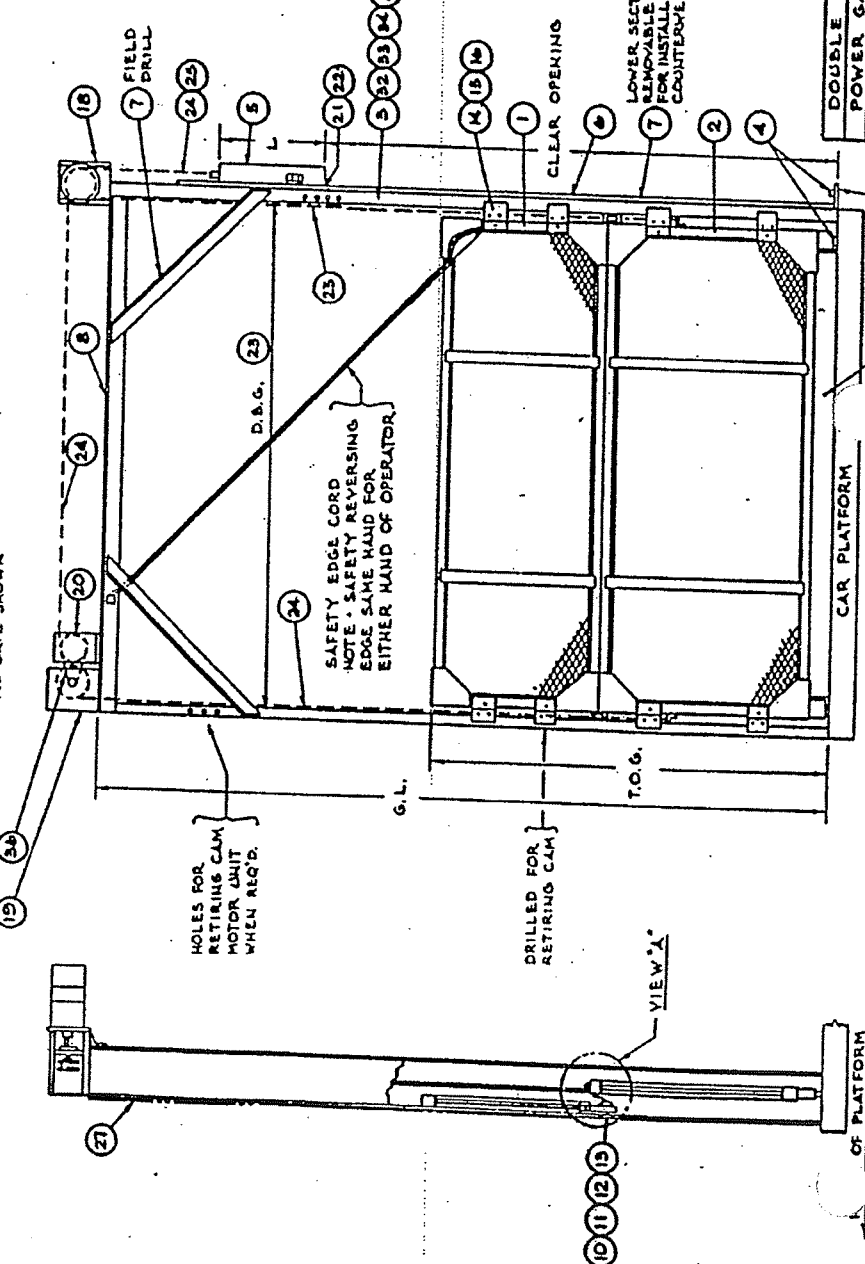
SINGLE SECTION "DEE CEE"		HAZEL FRUIT COMPANY	
POWER GATE ASS'Y		CHICAGO, ILL.	
1 1/2" P-2000 UNISTRAT		DC-8003	
DATE	BY	CHKD	APP'D

DET.	PART NO.	DESC.	QTY	UNIT
1	DC-8086	UPPER GATE ASSY. 1 1/2" UNISTRUT	1	
2	DC-8086	LOWER GATE ASSY. 1 1/2" UNISTRUT	1	
3	DC-4180	GATE GUIDE ASSEMBLY	1	
4	DC-1048	RUBBER BUMPER	1	
5	DC-8083	CWT ASSEMBLY	1	
6	DC-4005	CWT GUIDE 8'-0" LONG	1	
7	DC-4005	CWT GUIDE 5'-6" LONG	1	
8	DC-4121	TOP SPREADER ANGLE	1	
9		SWAY BRACE 2'-2" x 1/2"	1	
10	DC-4049	UPPER PANEL PICK-UP SHEAVE	1	
11	DC-4213	SHEAVE BRACKET	1	
12	DC-4214	SHEAVE BRACKET	1	
13		HEX HD BOLT 3/8" x 1 1/2" LG. W/HOT	1	
14	DC-4211	GUIDE SHOE SPACER	1	
15	DC-4208	GATE GUIDE SHOE	1	
16	DC-4209	GATE GUIDE SHOE	1	
17	DC-8006	SAFETY REVERSING EDGE (F RWD)	1	
18	DC-8121	M-T GATE OPERATOR	1	
19	DC-8089	GATE IDLER SPROCKET ASSY.	1	
20	SEE NOTE 'A'	M-T CYCLE CONTROL	1	
21	DC-4050	PAYNE DB CONTACT	1	
22	DC-4046	GATE CONTACT BRACKET	1	
23		SPREADER GAUGE	1	
24		1/2" GATE CHAIN	1	
25		1/2" GATE CHAIN	1	
26	DC-4016	ADJUSTMENT SCREW FOR CHAIN	2	
27	DC-4120	DEAD END HITCH	2	
28		1/2" CHAIN CLIP	2	
29	DC-4011	CHAIN BRACKET	2	
30		1/2" CHAIN CONNECTING LINK	2	
31		1/2" CHAIN	2	
32		HEX HD CAP SCREW 3/8" x 1 1/2" LG.	12	
33		HEX HD CAP SCREW 3/8" x 2" LG.	4	
34		HEX HD CAP SCREW 3/8" x 1 1/2" LG.	12	
35		HEX HD NUT 3/8"	12	
36		1/2" ROLLER CHAIN	32	
37	DC-4004	CWT STOP ANGLE	1	



TOP VIEW
SCALE: HALF
RIGHT HAND GATE SHOWN

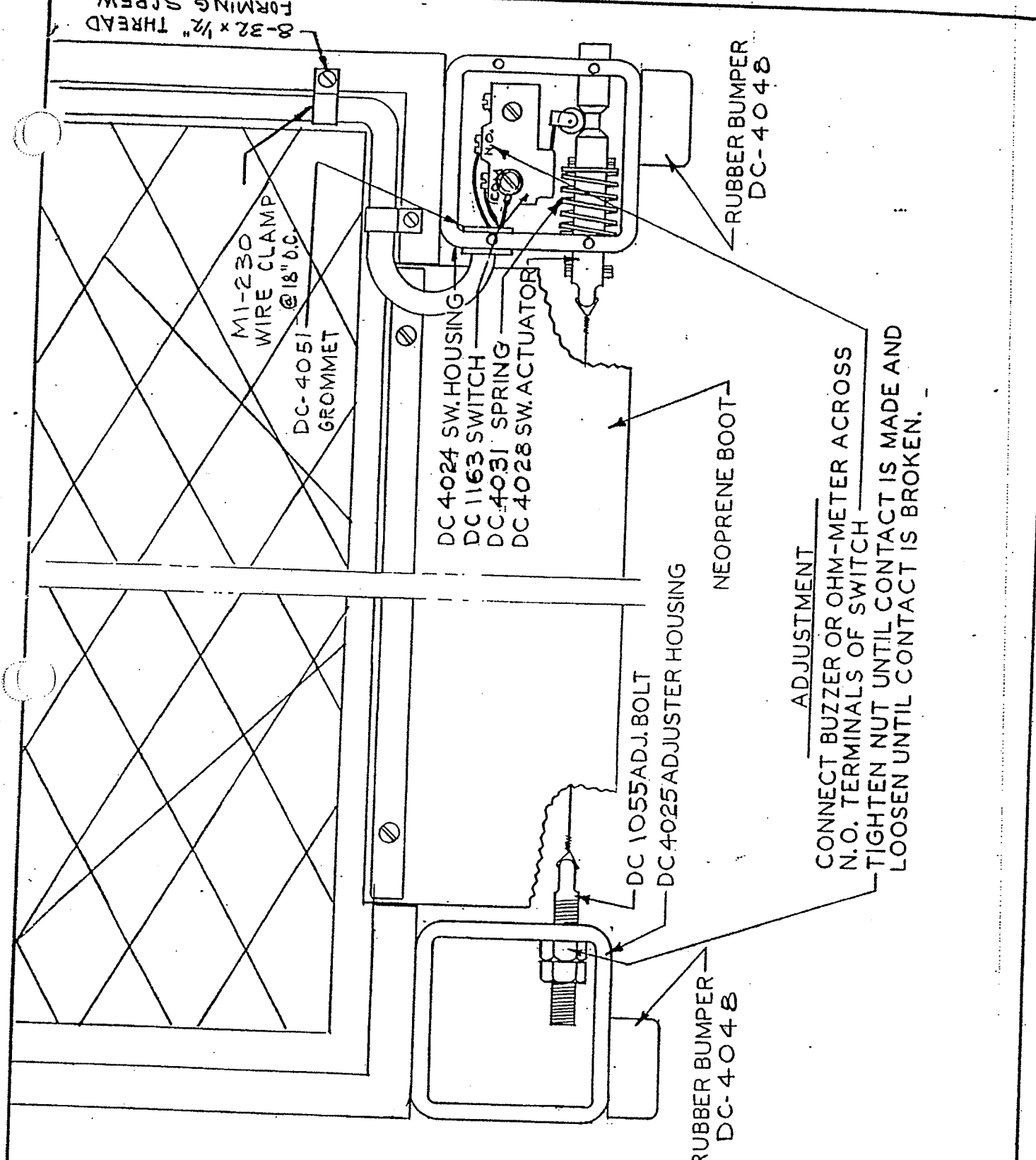
NOTE 'A':
FOR DOORS 8'-0" HIGH OR LESS USE DC-8125 ASSY.
FOR DOORS 8'-0" TO 12'-0" HIGH USE DC-8152



DOUBLE SECTION "DEE-CEE"
POWER GATE ASSY.
1 1/2" P-2000 UNISTRUT

FACTORY OFFICE & SHOW ROOM
MERRILL BLDG. 25 EAST WASHINGTON
HARRIS FRODOLE COMPANY
CHICAGO, ILLINOIS

DC-8004

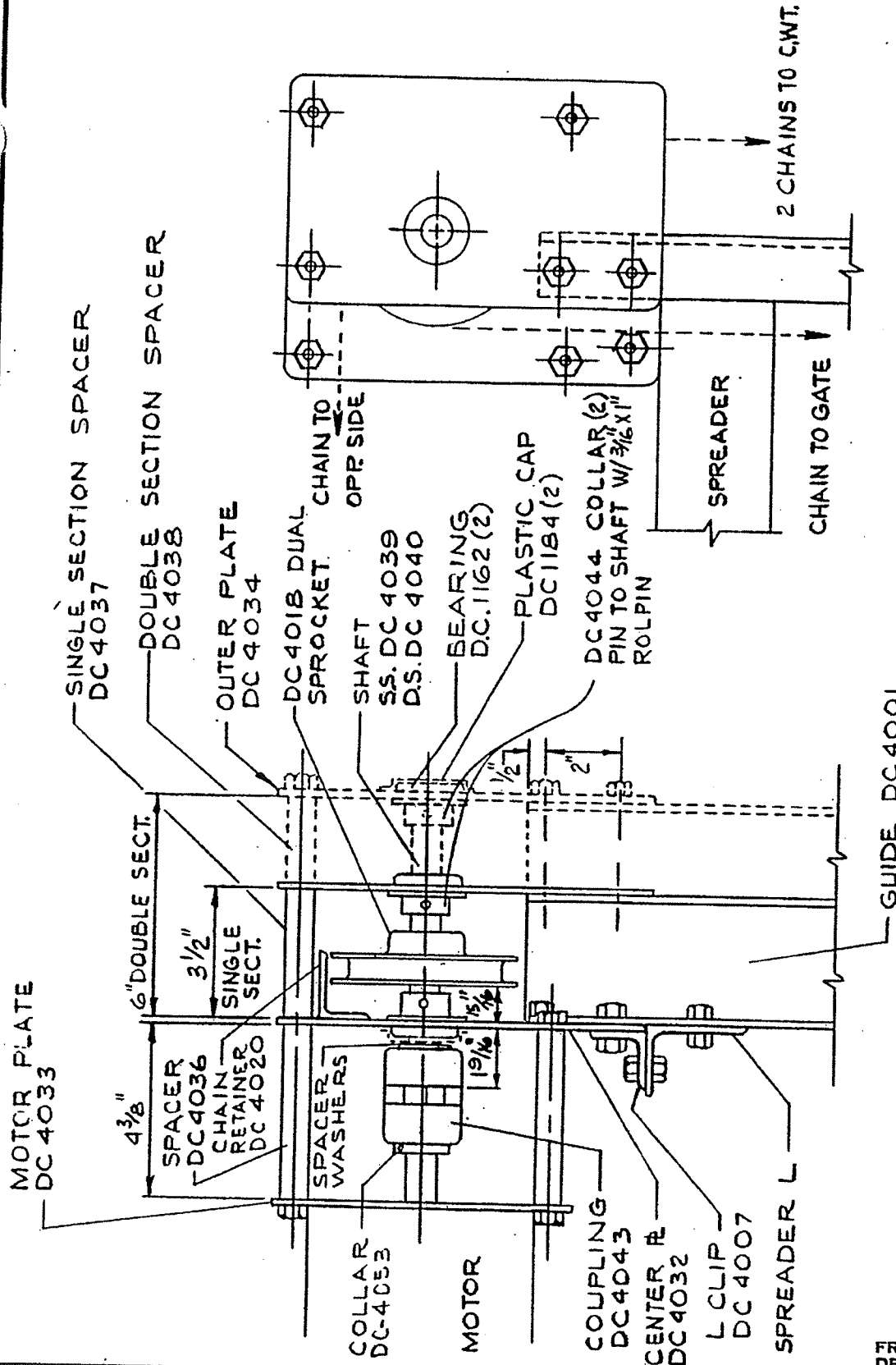


M-3 REVERSING EDGE ASSEMBLY AND
ADJUSTMENT.

DEE-CEE POWER OPERATED CAR GATE

APP'D	CHECKED	DWN. BY	SCALE	REVISIONS	HARRIS PREBLE DEE-CEE COMPANY CHICAGO 90, ILL.	DATE	DWG. NO.
		H.J.S.	HALF	11-3-65 8-8-68 MK 8-29-77 ELO-441		FEB. 63	DC 8006

CONNECT BUZZER OR OHM-METER ACROSS
N.O. TERMINALS OF SWITCH
TIGHTEN NUT UNTIL CONTACT IS BROKEN AND
LOOSEN UNTIL CONTACT IS BROKEN.



VIEW LOOKING TOWARD CAR

LEFT HAND ASS'Y SHOWN
RIGHT HAND SYM. OPP.

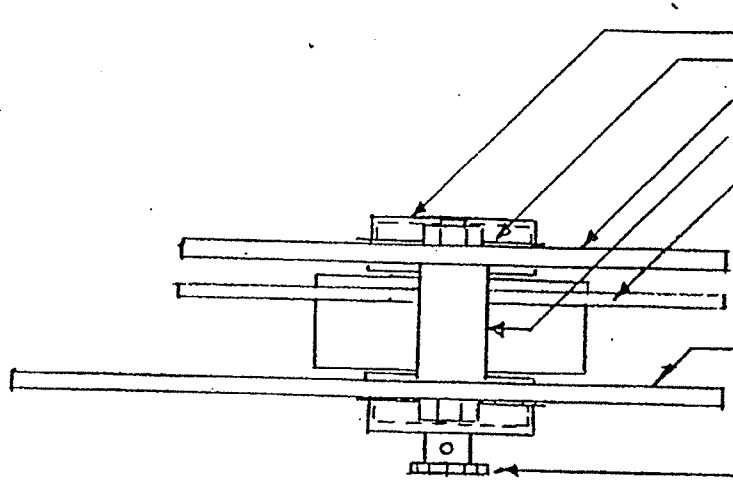
FRACTIONAL DIM. ± 1/64"
DECIMAL DIM. AS SHOWN

Dee-Cee M2 GATE OPERATOR

HARRIS PREBLE
FIRE DOORS, INC.
CHICAGO 60650

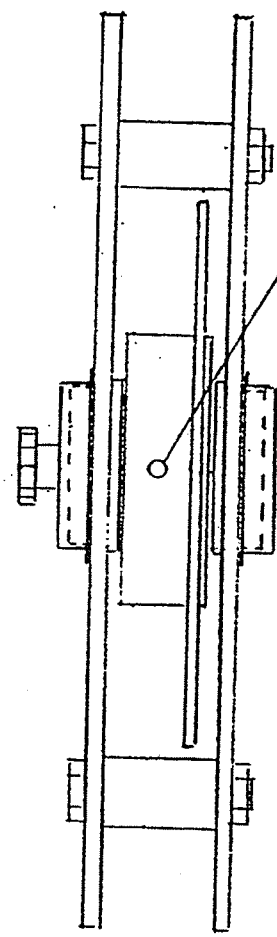
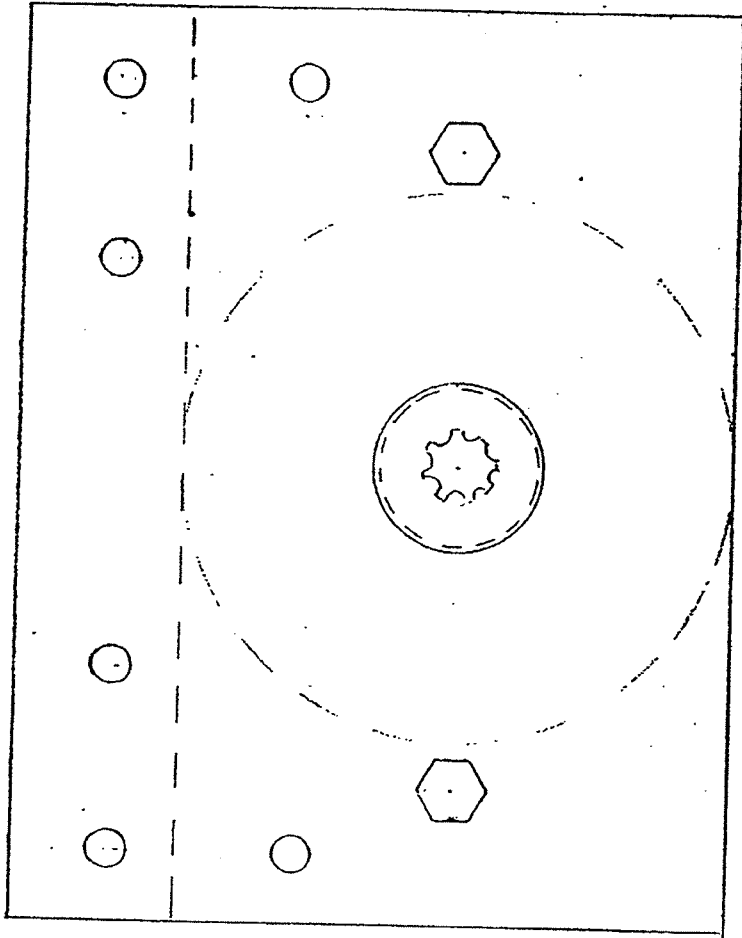
REVISIONS	APP'D	CHECKED	DWN. BY	SCALE	DATE	DWG. NO.
			M.K.	1/4" = 1"	10-16-67	DC 8010

23



- DC 1184 PLASTIC CAP (2)
- DC 1162 BEARING (2)
- DC 4015 PLATE (1)
- DC 4023 SPACER (2)
- DC 4019 SPROCKET (1)
- 3/8 X 2" H. H. BOLT (2)
- 3/8" FLANGE LOCK NUT (2)
- 3/8" INT. LOCKWASHER (2)
- USE UNDER BOLT HEADS
- DC 4014 PLATE (1)

- DC 4021 SHAFT (1)
- DC 1165 SPROCKET (1)
- DRILL 1/8" HOLE THRU SPKT HUB & SHAFT & DRIVE IN 1/2 X 1/4 GROOV PIN



AFTER ASSY.
DRILL HUB &
SHAFT 3/16 Ø
DRIVE IN
3/16" X 1 3/4"
GROOV PIN

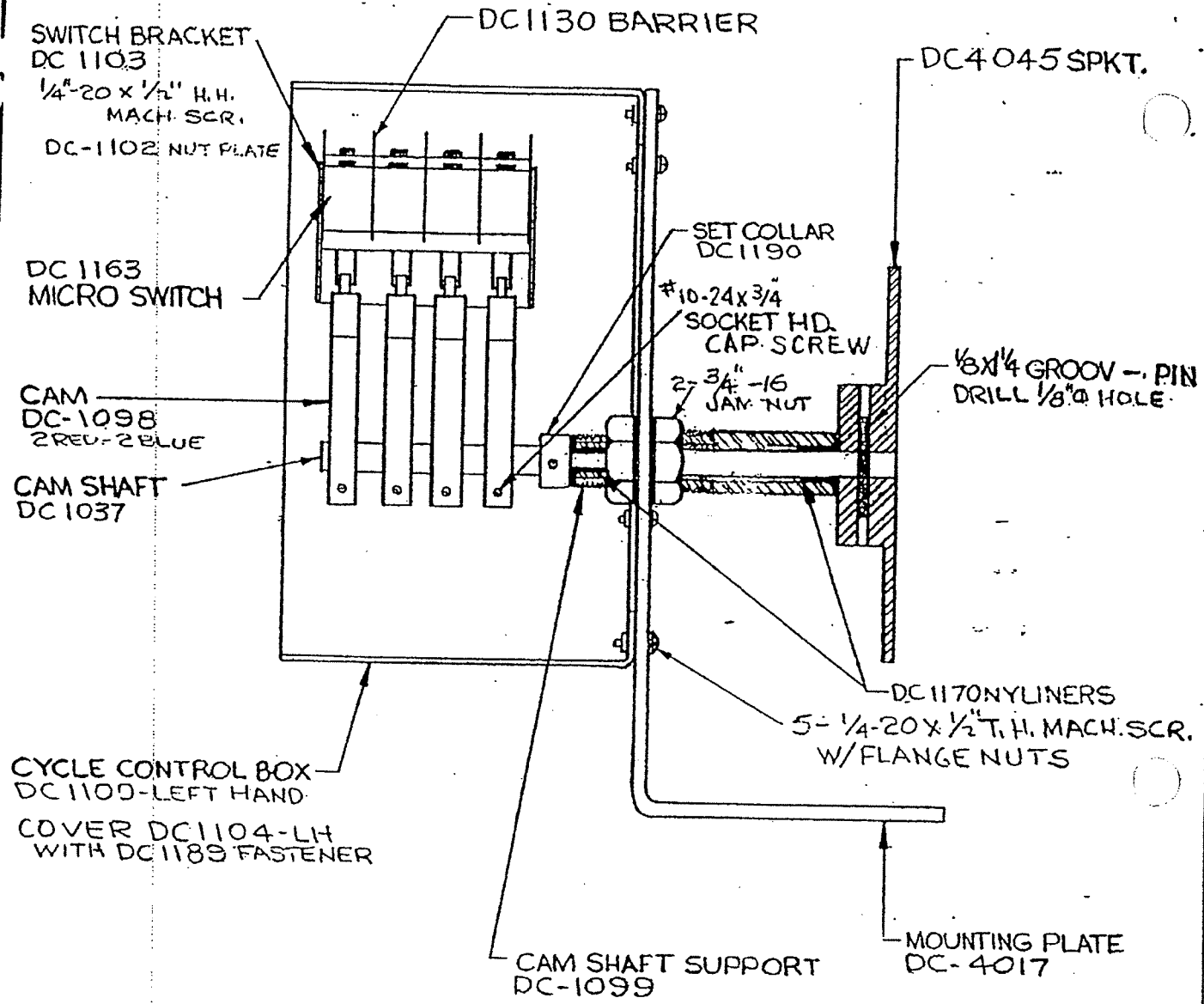
FRACTIONAL DIM. ± 1/64"
DECIMAL DIM. AS SHOWN.

GATE IDLER SPROCKET ASSEMBLY

**HARRIS PREBLE
FIRE DOORS, INC.
CHICAGO 50, ILL.**

					DATE	DWG. NO.
					3-6-67	DC 8019
REVISIONS	APP'D	CHECKED	DWN. BY	SCALE		

24

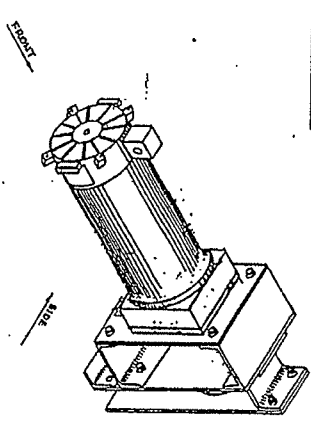
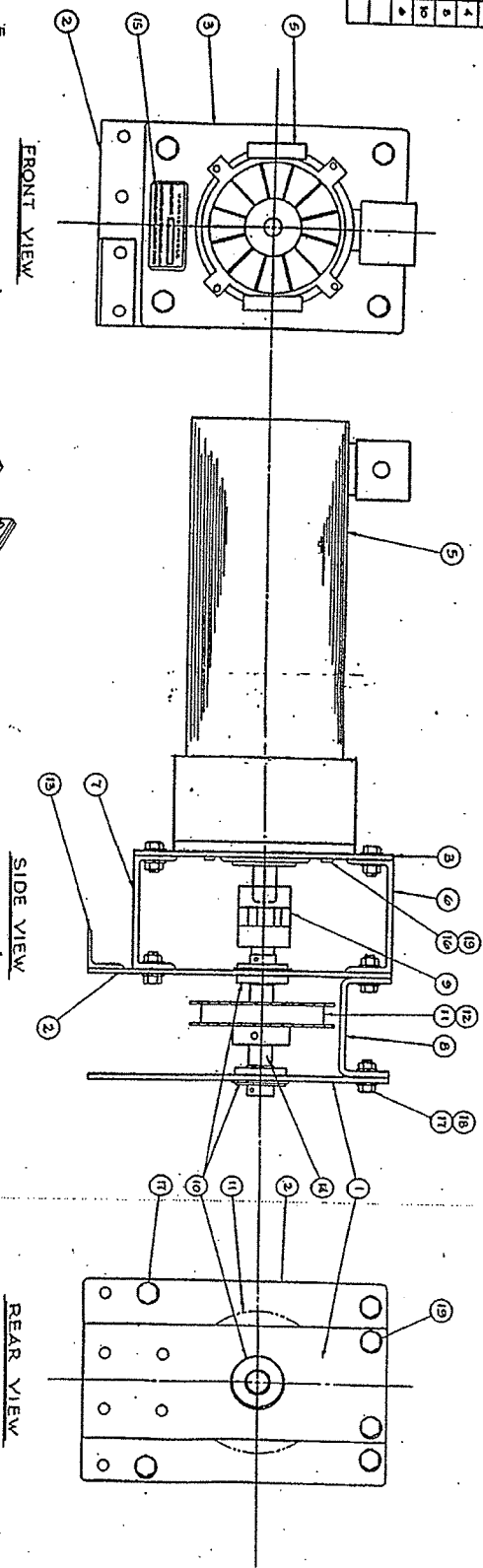


FRACTIONAL DIM. ± 1/64"
DECIMAL DIM. AS SHOWN

M4 GATE CYCLE CONTROL ASSEMBLY				HARRIS PREBLE FIRE DOORS, INC. CHICAGO 50, ILL.	
				DATE	DWG. NO.
3-3-67					
REVISIONS	APP'D	CHECKED	DWN. BY	SCALE	DATE
			DBS.	HALF	5-3-66
					DC 8020

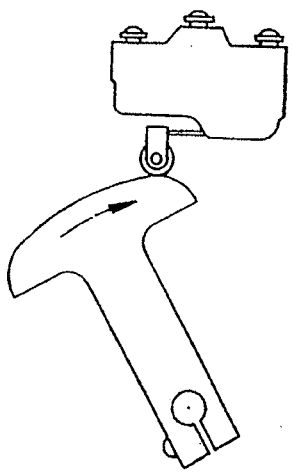
NOTE: PLEASE IDENTIFY CHAIN WHEN ORDERING SPROCKETS.

NO.	DESCRIPTION	PART NUMBER
1	OPERATOR BACK PLATE	DC-501
2	OPERATOR CTRL. PLATE	DC-420
3	MOTOR MOUNTING PLATE	DC-430
4	TOP SPROCKET	DC-430
5	BOTTOM SPROCKET	DC-430
6	OPERATOR CONTROL	DC-430
7	OPERATOR CONTROL	DC-430
8	OPERATOR CONTROL	DC-430
9	OPERATOR CONTROL	DC-430
10	OPERATOR CONTROL	DC-430
11	OPERATOR CONTROL	DC-430
12	OPERATOR CONTROL	DC-430
13	OPERATOR CONTROL	DC-430
14	OPERATOR CONTROL	DC-430
15	OPERATOR CONTROL	DC-430
16	OPERATOR CONTROL	DC-430
17	OPERATOR CONTROL	DC-430
18	OPERATOR CONTROL	DC-430
19	OPERATOR CONTROL	DC-430

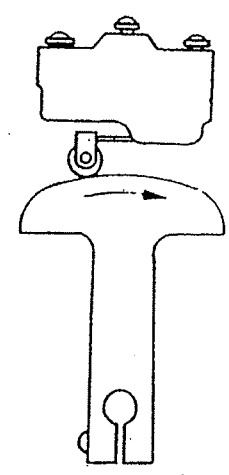


NOTES:
 A. ALL SET SCREW TORQUE REPLACED WITH "NUTLOCKS"
 B. LOCATION OF PART "DC-4007" IS INTERCHANGEABLE POSITION OF PART AS SHOWN IN LEFT HAND.

Model	DC-501
Part No.	DC-501
Rev.	1
Material	Steel
Quantity	1
Notes	See Notes
Drawn by	J. H. HARRIS
Checked by	J. H. HARRIS
Approved by	J. H. HARRIS
Date	12-29-48
Company	HARRIS PRELITE COMPANY
Address	DC - 0135



BLACK OR
BLUE CAMS
OPEN



BLUE CAM

BLUE CAM

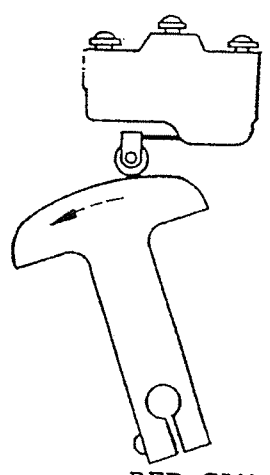
HOF - HATCH DOOR OPEN FINAL LIMIT
COF - CAR GATE OPEN FINAL LIMIT

HOS - HATCH DOOR SLOWDOWN LIMIT
COS - CAR GATE SLOWDOWN LIMIT

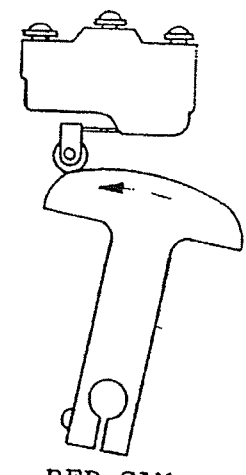
Adjust cam to ride onto switch roller to stop door/gate in full open position without slam or rebound.

Adjust cam to ride onto switch roller to initiate slow-down. Use full cam travel for initial setting. Hatch door switch also initiates car gate opening.

ROTATION SHOWN FOR R.H. INSTALLATION - L.H. OPPOSITE ROTATION



RED CAMS
CLOSE



RED CAM

RED CAM

HCS - HATCH DOOR SLOWDOWN LIMIT
CCS - CAR GATE SLOWDOWN LIMIT

HCF - HATCH DOOR CLOSE FINAL LIMIT
CCF - CAR GATE CLOSE FINAL LIMIT

Adjust cam to ride onto switch roller to initiate slow-down - use full cam travel for initial setting car gate switch also initiates hatch door closing

Adjust cam to ride onto switch roller to stop door/gate in full closed position without slam or rebound

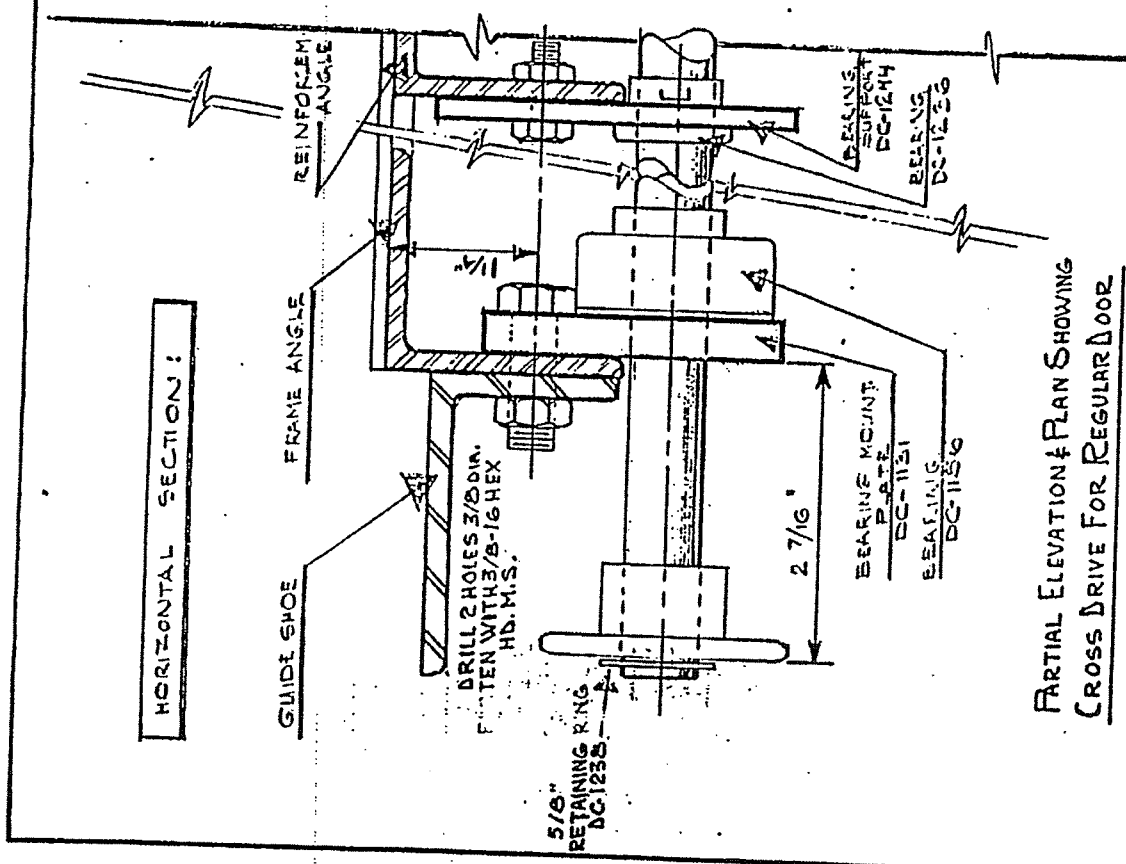
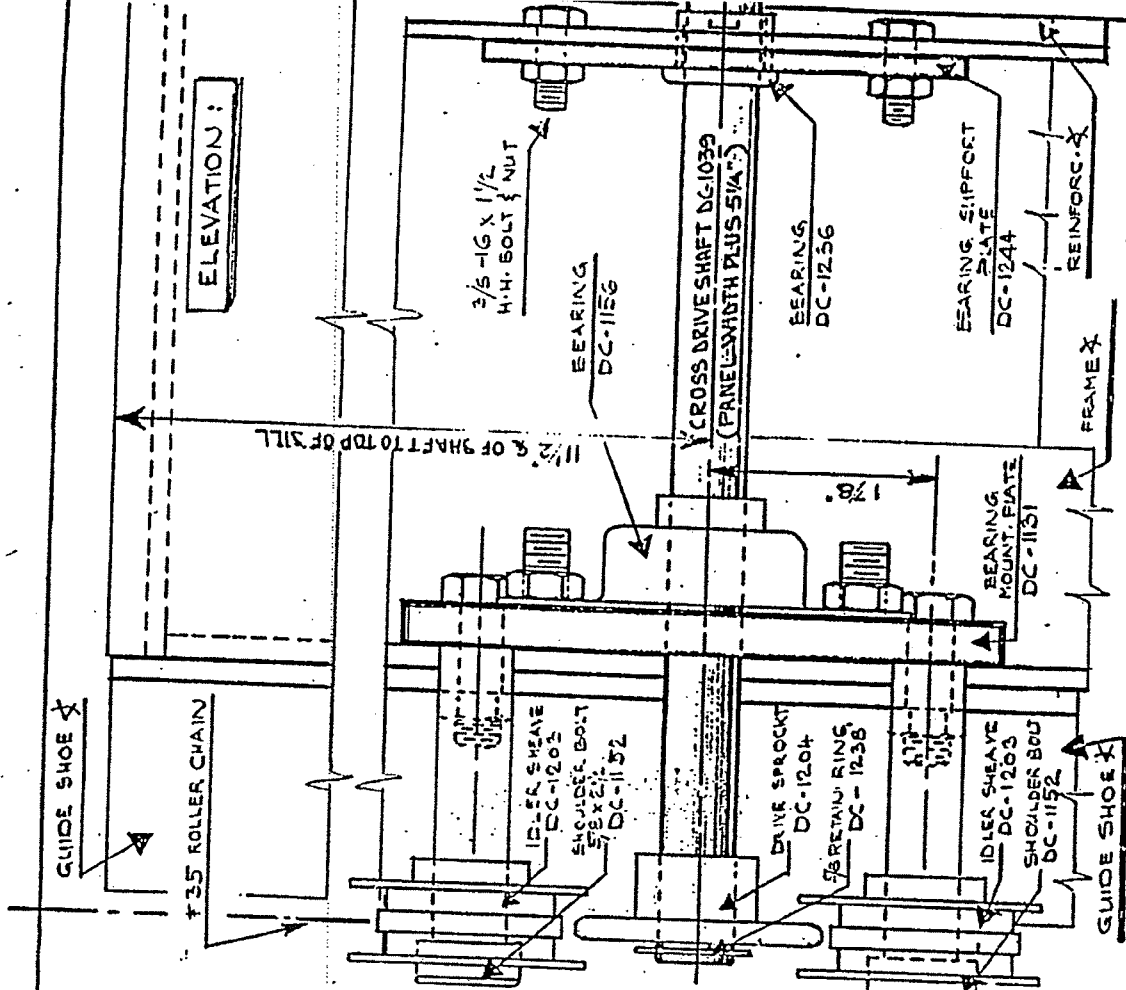
DEE-CEE CYCLE CONTROL					HARRIS PREBLE FIRE DOORS, INC. CHICAGO 50, ILL.	
CAM ADJUSTMENT HATCH DOORS & CAR GATES						
REVISIONS	APP'D	CHECKED	DWN. BY	SCALE	DATE	DWG. NO.
			D.B.S.	HALF	MAR. 66	DC-9001

3

1. Follow instructions for erection of guides and doors according to drawing D-110 using motor drive unit in place of sheave on one side of opening as shown on job layout. Both sides will use No. 40 roller chain
2. After all doors are installed and can be operated manually, install chain racks in locations shown on drawings included in this book. With door fully open, adjust lower end of chains so no slack occurs below sprockets and adjust upper end for about 1" free lateral movement at center of chain. Chains set too tight cause excessive drag. Doors should operate easily by hand taking into account resistance from motor.
3. Cycle control assembly is factory assembled to motor plate. Check chain drive and spring loaded take-up for interference from dirt, projections from hatch wall or other obstructions. Adjust cams as indicated on sheet DC-9001 by operating doors manually.
4. Lubricate all moving parts in accordance with maintenance instructions.
5. Install all electric wiring
6. Doors are now ready for power operation. Check all doors of installation to be sure that switches HCF and HCS are on cams and switches are open when doors are closed, also that HOF and HOS are not on cams when doors are closed. HOF and HOS should be on cams when doors are in fully open position. Starting with all doors in fully closed position, try operation by power with push-buttons. Stop switch or buttons should be available to cut off power in case of jamming or misadjustment causing motor to remain energized. Adjust cams on switches HCS and HOS so that slow-down occurs at approximately 6" from end of travel in each direction. Adjust cams on switches HOF and HCF so that these are positively open at the limit of travel in the full open or closed positions. Some later re-adjustment may be necessary after break-in period.

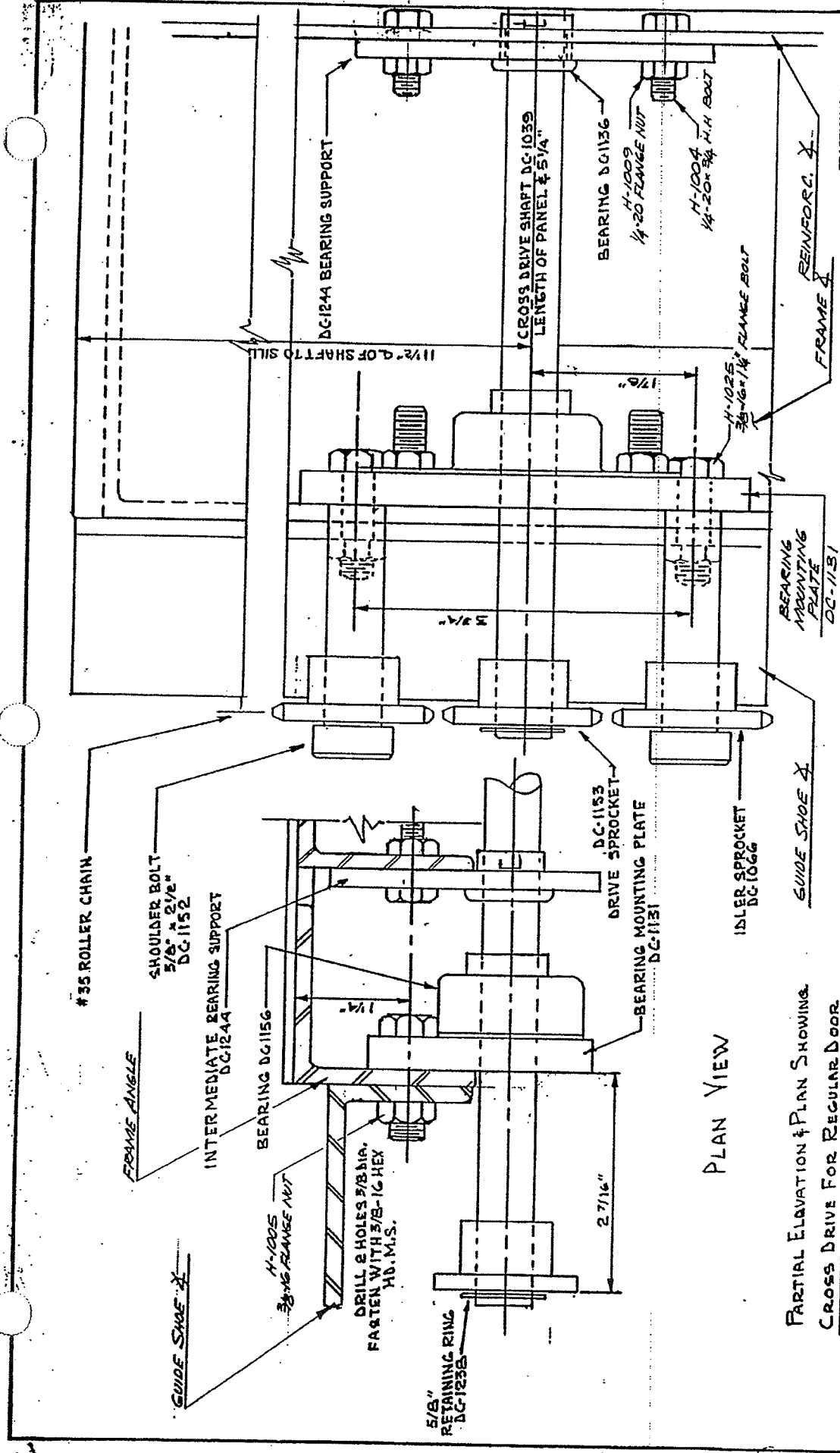
For gates follow same procedure with corresponding limit switches.

INSTALLATION INSTRUCTIONS				HARRIS PREBLE	
DEE-CEE OPERATOR				COMPANY	
				CHICAGO 606	
		DATE		DWG. NO.	
REVISIONS	APP'D	CHECKED	DWN. BY	SCALE	6-4-68 DC-9002



FRACTIONAL DIM. 3/16" DECIMAL DIM. AS SHOWN	
HARRIS PREBLE COMPANY CHICAGO 64, ILL.	
DATE 5-22-19	Dwg. No. DC-9009
REVISIONS	CHECKED AS BY S.V. SCALE FULL
FIELD MOUNTING CROSS DRIVE (POWER CONVERSION)	

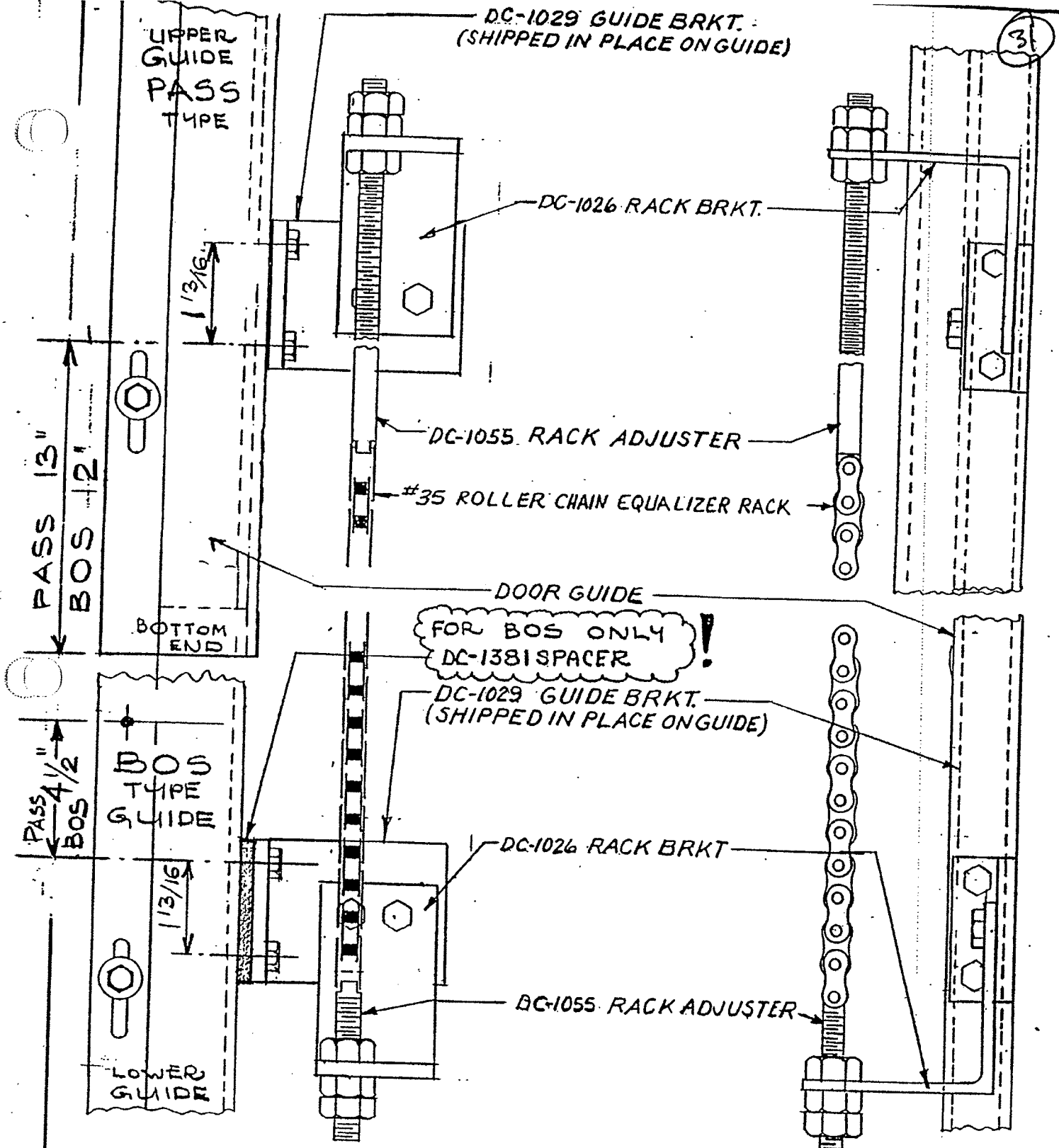
PARTIAL ELEVATION & PLAN SHOWING
 CROSS DRIVE FOR REGULAR DOOR



PLAN VIEW

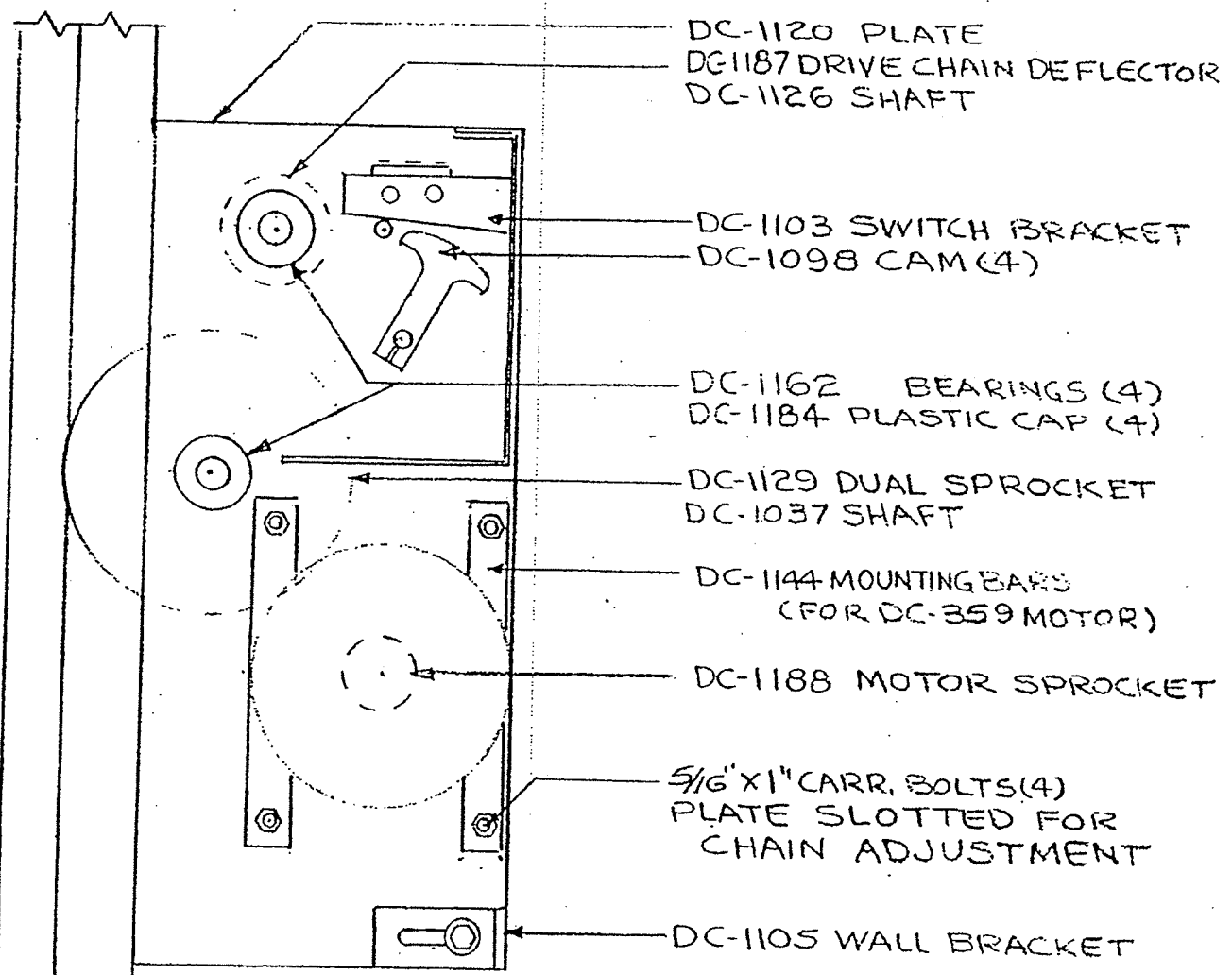
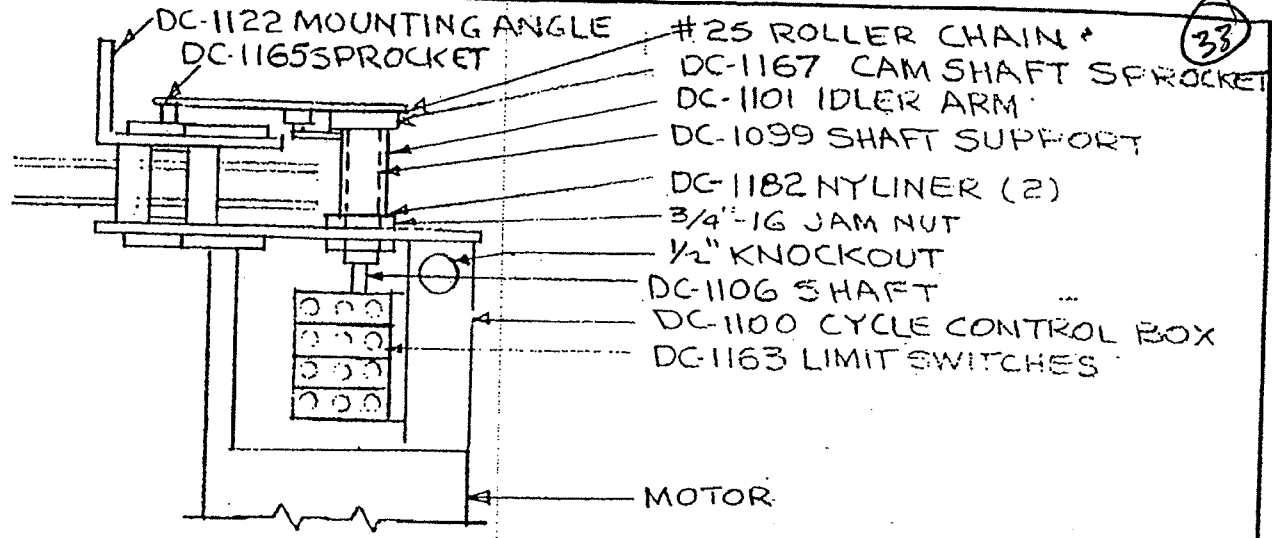
PARTIAL ELEVATION & PLAN SHOWING
CROSS DRIVE FOR REGULAR DOOR.

FIELD MOUNTING CROSS DRIVE		REVISIONS	DATE	DWG. NO.
APP'D	CHECKED	DWN. BY	SCALE	FULL
HARRIS PREBLE COMPANY CHICAGO 60650			1-12-75	DC-9009A



RIGHT HAND SHOWN; LEFT HAND SYM. OPP.

EQUALIZER CHAIN RACK ASSEMBLY		2-11-69	HARRIS PREBLE FIRE DOORS, INC. CHICAGO 50, ILL.
PASS & BOS DOORS		REVISIONS 2	
"Dee-Cee" POWER OPERATED HATCH DOOR		3-8-68	DATE
APP'D	CHECKED	DWN. BY <i>H.P.S.</i>	2-16-67
		SCALE 3/8" = 1"	6-8-66 NOV. 13, 62
			DWG. NO. DC-9014



FRACTIONAL DIM. ± 1/64"
DECIMAL DIM. AS SHOWN

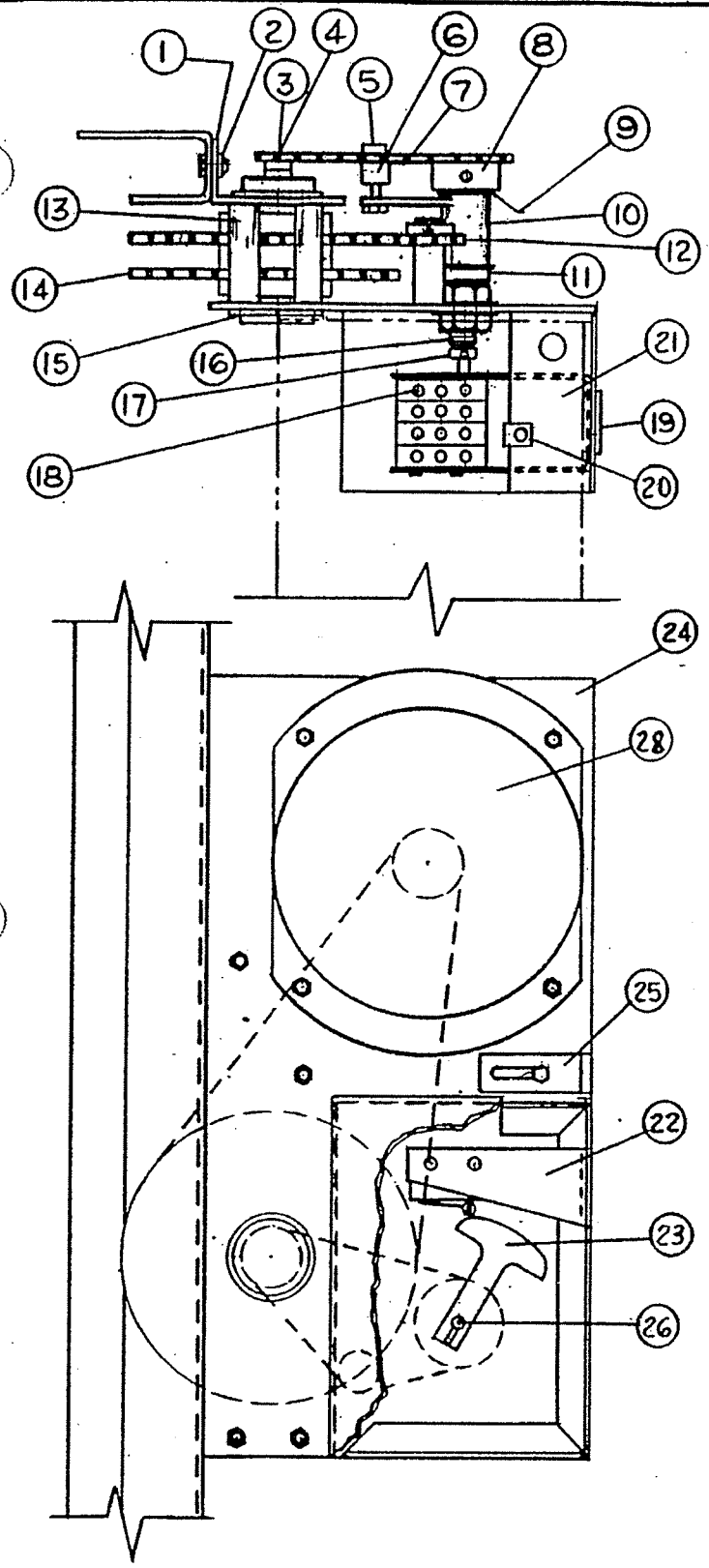
Dee Cee M-5 OPERATOR

**HARRIS PREBLE
FIRE DOORS, INC.
CHICAGO 50, ILL.**

1-4-67

DATE 3-3-66 DWG. NO. DC-9030

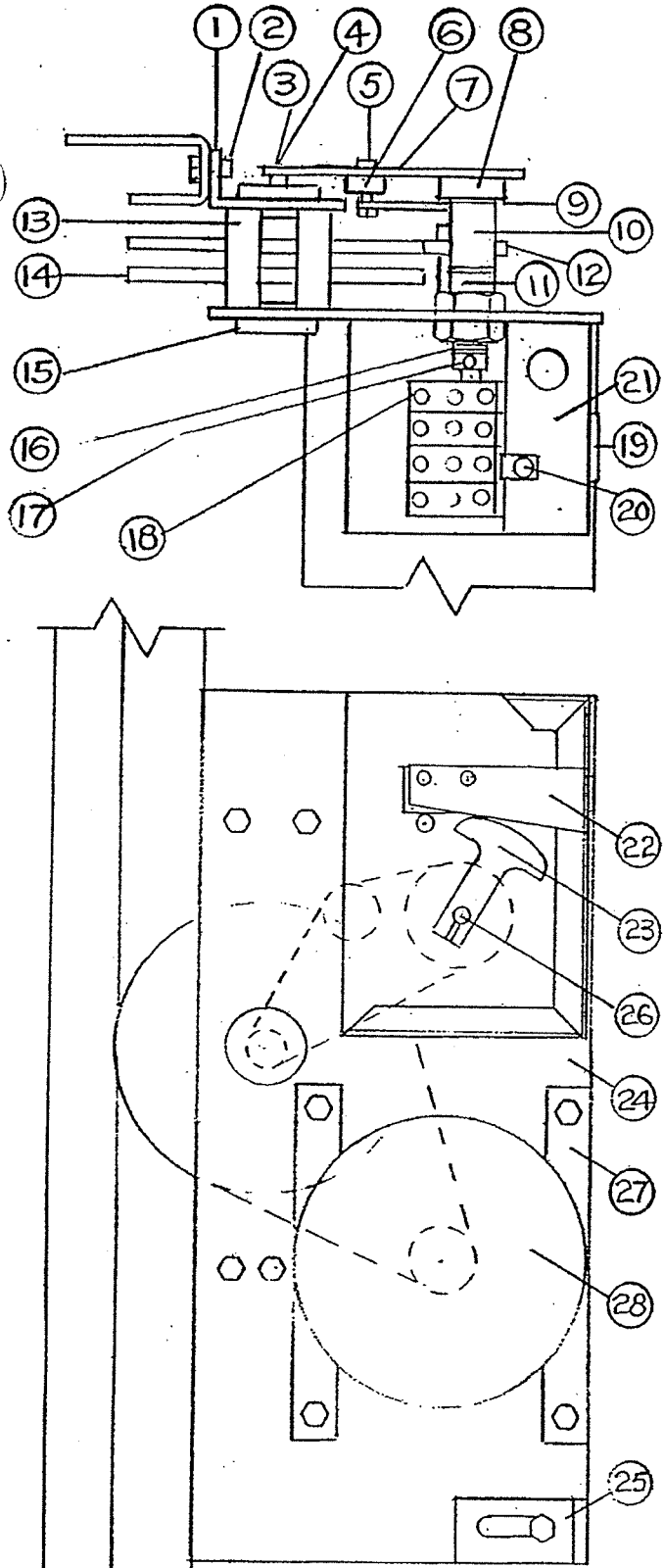
REVISIONS	APP'D	CHECKED	DWN. BY	SCALE



- 1 - DC 1074 OPERATOR ANGLE
- 2 - DC 1172 INSERT
- 3 - DC 1037 MAIN SHAFT
- 4 - DC 1165 SPROCKET
- 5 - DC-1183 SHAFT
- 6 - DC 1166 IDLER SPROCKET
DC 1181 BUSHING
- 7 - #25 ROLLER CHAIN
- 8 - DC 1167 SPROCKET (TO 8' OPG.)
- 9 - DC 1182 IDLER ARM BUSHING (2)
DC 1170 CAM SHAFT BUSHING (2)
- 10 - DC 1101 IDLER ARM
DC 1171 IDLER ARM SPRING
- 11 - DC 1109 SPACER
- 12 - MOTOR DRIVE SPROCKET
#35 ROLLER CHAIN
- 13 - DC 1075 SPACER (4)
- 14 - DC 1065 DUAL SPROCKET
- 15 - DC 1162 BEARING (2)
DC 1184 PLASTIC CAP (2)
- 16 - DC 1099 SHAFT SUPPORT
3/4-16 HEX. JAM NUT (2)
- 17 - DC 1190 SET COLLAR
- 18 - DC 1163 LIMIT SWITCH (4)
- 19 - DC 1102 NUT PLATE
- 20 - DC 1189 FASTENER ASSEMBLY
- 21 - DC 1100 BOX (L or R)
DC 1104 COVER (L or R)
- 22 - DC 1103 SWITCH BRACKET
- 23 - DC 1098 CAM
- 24 - DC-1107 OPERATOR PLATE
- 25 - DC 1105 WALL BRACKET
- 26 - DC 1106 CAM SHAFT
- 28 - MOTOR

FRACTIONAL DIM. ± 1/64"
DECIMAL DIM. AS SHOWN

Dee-Cee M4 DOOR OPERATOR FOR FRAME H56DP GEARMOTOR				HARRIS PREBLE FIRE DOORS. INC CHICAGO 60650	
		DATE		DWG. NO.	
REVISIONS	APP'D	CHECKED	DWN. BY	SCALE	DATE
			MK	1/4" = 1"	11-28-67
					DC 9025



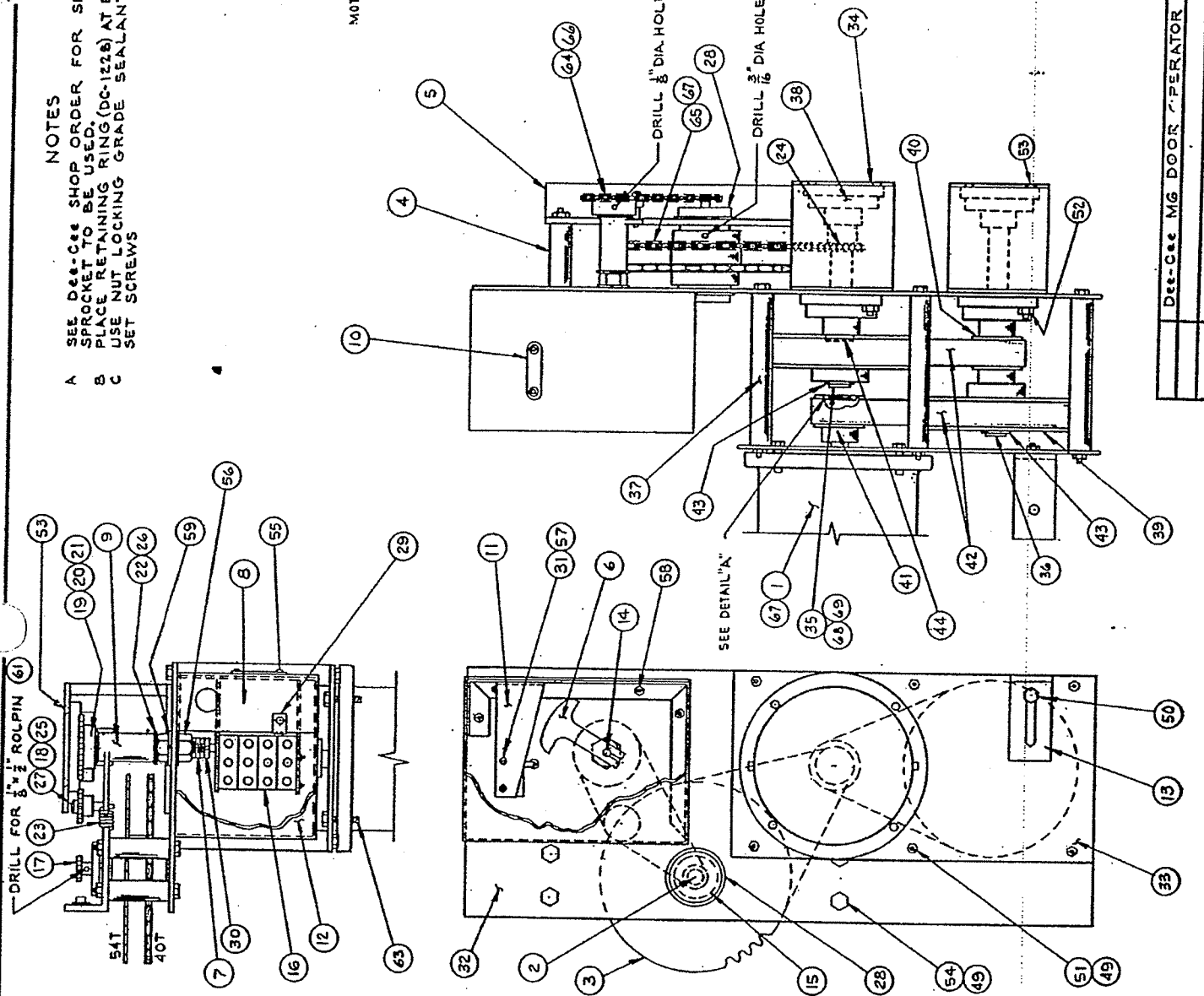
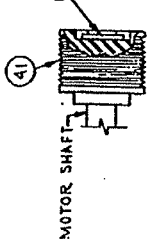
- 1 - DC 1097 OPERATOR ANGLE
- 2 - DC 1172 INSERT
- 3 - DC 1037 MAIN SHAFT
- 4 - DC 1165 SPROCKET
- 5 - DC-1183 SHAFT
- 6 - DC 1166 IDLER SPROCKET
DC 1181 BUSHING
- 7 - #25 ROLLER CHAIN
- 8 - DC 1167 SPROCKET (TO 8' OPG.)
- 9 - DC 1182 IDLER ARM BUSHING (2)
DC 1170 CAM SHAFT BUSHING (2)
- 10 - DC 1101 IDLER ARM
DC 1171 IDLER ARM SPRING
- 11 - DC 1109 SPACER
- 12 - MOTOR DRIVE SPROCKET
#35 ROLLER CHAIN
- 13 - DC 1075 SPACER (4)
- 14 - DC 1065 DUAL SPROCKET
- 15 - DC 1162 BEARING (2)
DC 1184 PLASTIC CAP (2)
- 16 - DC 1099 SHAFT SUPPORT
3/4-16 HEX. JAM NUT (2)
- 17 - DC 1190 SET COLLAR
- 18 - DC 1163 LIMIT SWITCH (4)
- 19 - DC 1102 NUT PLATE
- 20 - DC 1189 FASTENER ASSEMBLY
- 21 - DC 1100 BOX (L or R)
DC 1104 COVER (L or R)
- 22 - DC 1103 SWITCH BRACKET
- 23 - DC 1098 CAM
- 24 - DC 1115 OPERATOR PLATE
- 25 - DC 1105 WALL BRACKET
- 26 - DC 1106 CAM SHAFT
- 27 - MOTOR MOUNTING BAR
- 28 - MOTOR

FRACTIONAL DIM. ± 1/64"
DECIMAL DIM. AS SHOWN

Dee-Cee M4 DOOR OPERATOR				HARRIS PREBLE FIRE DOORS, INC. CHICAGO 50, ILL.	
				DATE	DWG. NO.
REVISIONS	APP'D	CHECKED	DWN. BY	5-67	DC 9026
			JWS	SCALE	
				3"=10"	

NOTES

- A SEE DEC-CO SHOP ORDER FOR SIZE OF SPROCKET TO BE USED.
- B PLACE RETAINING RING (DC-122B) AT EACH END OF SHAFT
- C USE NUT LOCKING GRADE SEALANT ON ALL SET SCREWS



MK	NOTE	DESCRIPTION	PART NO.
1		MOTOR	DC-361
2		SHAFT	DC-1037
3		DUAL SPROCKET	DC-1035
4		SPACER	DC-1075
5		MOUNTING ANGLE	DC-1095
6		CAM	DC-1098
7		CAM SHAFT SUPPORT	DC-1099
8		CYCLE CONTROL BOX	DC-1100
9		IDLER ARM	DC-1101
10		NUT PLATE	DC-1102
11		SWITCH PLATE	DC-1103
12		COVER	DC-1104
13		WALL BRACKET	DC-1105
14		CAM SHAFT	DC-1106
15		BEARING	DC-1162
16		MICRO SWITCH	DC-1163
17		SPROCKET	DC-1165
18		IDLER SPROCKET	DC-1166
19	A	SPROCKET 25B2B	DC-1167
20	A	SPROCKET 25B36	DC-1168
21	A	SPROCKET 25B45	DC-1169
22		NYLINER 6L6F	DC-1170
23		SPRING	DC-1171
24		SPROCKET 25B15F	DC-1174
25		NYLINER 6NB-D	DC-1181
26		NYLINER 12L12F	DC-1182
27		IDLER SHAFT	DC-1183
28		PLASTIC CAP	DC-1184
29		FASTENER ASS'Y.	DC-1189
30		3/8" SET COLLAR	DC-1190
31		SWITCH STUD	DC-1211
32		PLATE	DC-1215
33		BEARING BRACKET	DC-1216
34	B	SHAFT	DC-1217
35	B	SHAFT	DC-1218
36	B	SHAFT	DC-1219
37		SPACER	DC-1220
38		FLANGE BEARING FB2101/2	DC-1223
39		PULLEY 100/100 x 3/4"	DC-1224
40		PULLEY 100/100 x 3/4"	DC-1225
41		PULLEY 100/100 x 3/4"	DC-1226
42		PULLEY V-BELT 240J10	DC-1227
43		RETAINING RING 5555-75	DC-1228
44		SPACER	DC-1234
45		RETAINING RING 5555-62	DC-1238
46			
47			
48			
49		3/4" INTERNAL LOCK WASHER	10
50		5/16" x 1/2" H.H. FLG. LOCK-BOLT	1
51		3/8" x 1/2" H.H. MACH. BOLT	1
52		3/8" x 1/2" H.H. FLG. LOCK-BOLT	1
53		3/8" x 1/2" H.H. FLG. LOCK-BOLT	1
54		3/8" x 1/2" H.H. FLG. LOCK-BOLT	1
55		3/8" x 1/2" H.H. FLG. LOCK-BOLT	1
56		3/8" x 1/2" H.H. FLG. LOCK-BOLT	1
57		3/8" x 1/2" H.H. NUT	1
58		3/8" x 1/2" H.H. NUT	1
59		3/8" x 1/2" TRUSS HD. BOLT	1
60		3/8" x 1/2" INTERNAL LOCK WASHER	1
61		3/8" x 1/2" GROOV-PIN	1
62		1/8" x 1/2" ROLPIN	1
63		3/8" x 1/2" GROOV-PIN	1
64		3/8" x 1/2" H.H. FLG. LOCK BOLT	1
65		#25 ROLLER CHAIN (STD)	15/2"
66		#25 ROLLER CHAIN (STD)	25/8"
67		#25 CONNECTING LINK	1
68		KEY 3/8" x 1/2" x 3/4"	1
69		KEY 3/8" x 1/2" x 1/2"	1
70		KEY 3/8" x 1/2" x 3/4"	1
71			

37

HARRIS FREER INC
FIRE DOOR OPERATOR
CHICAGO, ILL.

38

TURN EMERGENCY STOP SWITCH OFF

OPEN DOOR APPROXIMATELY 1/3 WAY

DISCONNECT RACK CHAINS FROM UPPER FASTENER

ADJUST LOWER RACK CHAIN BOLT SO THAT IT IS IN THE MIDDLE OF ITS ADJUSTMENT, INSTALL LOCK NUT.

OPEN DOOR FULLY

ADJUST TRUCKING BAR SUPPORT TO LEVEL DOOR SILL (LEVEL SILL WITH GRAVITY NOT BUILDING SILL). DOOR SILL SHOULD NOT BE ABOVE BUILDING SILL AT ANY POINT.

MEASURE BETWEEN LOWER DOOR SILL AND UPPER DOOR ASTRAGAL ON EACH SIDE OF DOOR TO MAKE SURE DOOR IS OPENING TO CORRECT HEIGHT AND THAT UPPER PANEL IS LEVEL AND CLEAR OF OPENING. ADJUST COUNTERBALANCING CHAINS IF IT IS NOT.

CLOSE DOOR UNTIL CROSS DRIVE IS ABOVE TRUCKING BAR SUPPORTS, APPROXIMATELY 1/3 WAY.

MAKE SURE LOWER DOOR IS LEVEL THEN CLAMP IT IN PLACE SO THAT DOOR WILL NOT MOVE AS RACK CHAINS ARE ADJUSTED.

POSITION RACK CHAINS ON CROSS DRIVE SPROCKET SO THAT MOST OF SLACK HAD BEEN REMOVED FROM LOWER SECTION.

CONNECT UPPER RACK CHAIN BOLTS AND TIGHTEN CHAINS UNTIL ADJUST NUT IS HAND TIGHT.

INSTALL LOCK NUT AND CLOSE DOOR FULLY

RACK CHAINS SHOULD SEEM LOOSE BUT NOT SLOPPY LOOSE. APPROX. 1" FREE PLAY FOR A 7' DOOR.

ADJUST INTERLOCK UP OR DOWN AS THAT TOP OF RATCHET BLOCK ON INTERLOCK ARM IS APPROX. 1/8" BELOW LOCKING TOOTH ON END CASTING.

ADJUST ARMS ON INTERLOCK AS NECESSARY. REFER TO DRAWING M1-136

READJUST CAMS ON CYCLE CONTROL IF NECESSARY.

FRACTIONAL DIM. ± 1/64"
DECIMAL DIM. AS SHOWN

DEE-CEE SINGLE OPERATOR POWERED BI-PARTING DOOR					OR HARRIS PREBLE COMPANY CHICAGO 6065	
ADJUSTMENT PROCEDURE						
REVISED 8-4-78 R/A					DATE 5/70	DWG. No. DC-9056
REVISIONS	APP'D	CHECKED	DWN. BY RICK H.	SCALE		

RACK CHAIN BRACKET
DC-1199

OPERATOR MOUNTING ANGLE
DC-1198

CYCLE CONTROL

#25 ROLLER CHAIN

#35 ROLLER CHAIN

MOTOR

POLY-V-BELTS

PLATE
DC-1240

RIGHT HAND OPERATOR SHOWN

FRACTIONAL DIM. ± 1/64"
DECIMAL DIM. AS SHOWN

Dee-Cee M6 OPERATOR
SHORT SPANDREL

HARRIS PREBLE
FIRE DOORS, INC.
CHICAGO 60650

10-15-68

DATE

DWG. NO.

REVISIONS

APP'D

CHECKED

DWN. BY

SCALE

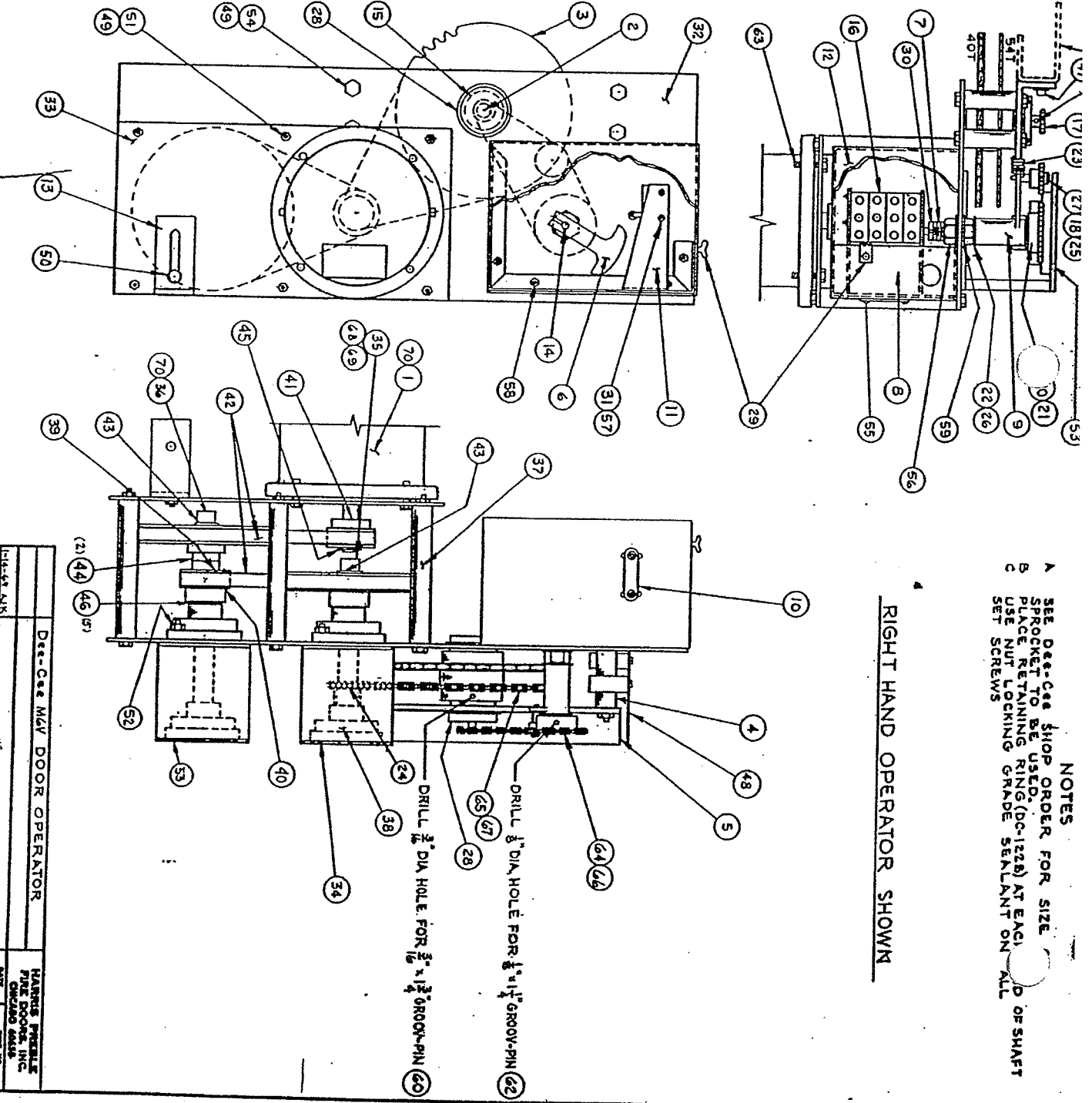
NONE

8-23-68

DC-9057

MK

1	MOTOR	DC-361	1
2	SHAFT - MOTOR	DC-1097	1
3	SHAFT - MOTOR	DC-1097	1
4	SHAFT - MOTOR	DC-1097	1
5	SHAFT - MOTOR	DC-1097	1
6	SHAFT - MOTOR	DC-1097	1
7	CAM SHAFT SUPPORT	DC-1098	1
8	CAM SHAFT SUPPORT	DC-1098	1
9	CAM SHAFT SUPPORT	DC-1098	1
10	IDLER ARM	DC-1100	1
11	NUT PLATE	DC-1101	1
12	SWITCH BRACKET	DC-1102	1
13	COVER - CYCLE CONTROL	DC-1104	1
14	WALL BRACKET	DC-1105	1
15	CAM SHAFT	DC-1108	1
16	BEARING	DC-1162	2
17	MICRO SWITCH	DC-1163	4
18	SPROCKET - C.C. DRIVE	DC-1165	1
19	SPROCKET - 25B36 CAM SHAFT	DC-1167	1
20	SPROCKET - 25B36	DC-1168	1
21	NYLINER - 6L4F	DC-1169	1
22	NYLINER - 6L4F	DC-1170	2
23	SPRING - IDLER ARM	DC-1171	1
24	SPROCKET - 35B15F	DC-1174	1
25	NYLINER - 6N8-D	DC-1181	1
26	NYLINER - 12L12F	DC-1182	1
27	IDLER SHAFT	DC-1183	1
28	PLASTIC BEARING CAP	DC-1184	2
29	FASTENER ASSY - COVER	DC-1189	1
30	3/8" SET COLLAR	DC-1190	1
31	SWITCH STUD	DC-1211	2
32	PLATE - MAIN	DC-1219	1
33	PLATE - MOTOR	DC-1216	1
34	BEARING BRACKET	DC-1217	2
35	SHAFT - SPROCKET	DC-1218	1
36	SHAFT - INTERMEDIATE	DC-1219	1
37	SPACER - MOTOR PLATE	DC-1220	6
38	FLANGE BEARING FIBROPLA	DC-1223	4
39	PULLEY AKG4 x 3/4"	DC-1248	2
40	PULLEY AK20 x 3/4"	DC-1249	1
41	PULLEY AK20 x 3/4"	DC-1250	1
42	V-BELT 4L250	DC-1251	2
43	RETAINING RING 5555-75	DC-1226	4
44	SPACER - SHAFT	DC-1252	2
45	RETAINING RING 5555-62	DC-1258	1
46	SHIM WASHERS	MV176	3
47	INSERT NUT	DC-1172	3
48	COVER ASSEMBLY	DC-9049	1
49	3/8" INTERNAL LOCK WASHER	DC-9049	1
50	3/8" LOCK WASH. LOCK-NUT	DC-9049	1
51	3/8" LOCK WASH. LOCK-NUT	DC-9049	1
52	3/8" LOCK WASH. LOCK-NUT	DC-9049	1
53	3/8" LOCK WASH. LOCK-NUT	DC-9049	1
54	3/8" LOCK WASH. LOCK-NUT	DC-9049	1
55	3/8" LOCK WASH. LOCK-NUT	DC-9049	1
56	3/8" LOCK WASH. LOCK-NUT	DC-9049	1
57	6-32 H.M. NUT & L.W.	DC-9049	4
58	1/4" 20x1/2" TRUSS HD. BOLT	DC-9049	5
59	3/4" INTERNAL LOCK WASHER	DC-9049	2
60	3/4" 1/2" GROOV-PIN	DC-9049	1
61	1/8" x 1/2" ROLL-PIN	DC-9049	1
62	1/8" x 1/2" GROOV-PIN	DC-9049	1
63	3/8" 1/2" H.M. FLG. LOCK BOLT	DC-9049	4
64	3/8" 1/2" H.M. FLG. LOCK BOLT	DC-9049	4
65	3/8" 1/2" H.M. FLG. LOCK BOLT	DC-9049	4
66	3/8" 1/2" H.M. FLG. LOCK BOLT	DC-9049	4
67	3/8" 1/2" H.M. FLG. LOCK BOLT	DC-9049	4
68	3/8" 1/2" H.M. FLG. LOCK BOLT	DC-9049	4
69	KEY 3/8" x 3/4" x 1/2"	DC-9049	1
70	KEY 3/8" x 3/4" x 1/2"	DC-9049	1
71	KEY 3/8" x 3/4" x 1/2"	DC-9049	1



NOTES

A SEE Dee-Cee SHOP ORDER FOR SIZE

B SPROCKET TO BE USED (DC-1228) AT EACH END OF SHAFT

C PLACE RETAINING RING (DC-1228) AT EACH END OF SHAFT

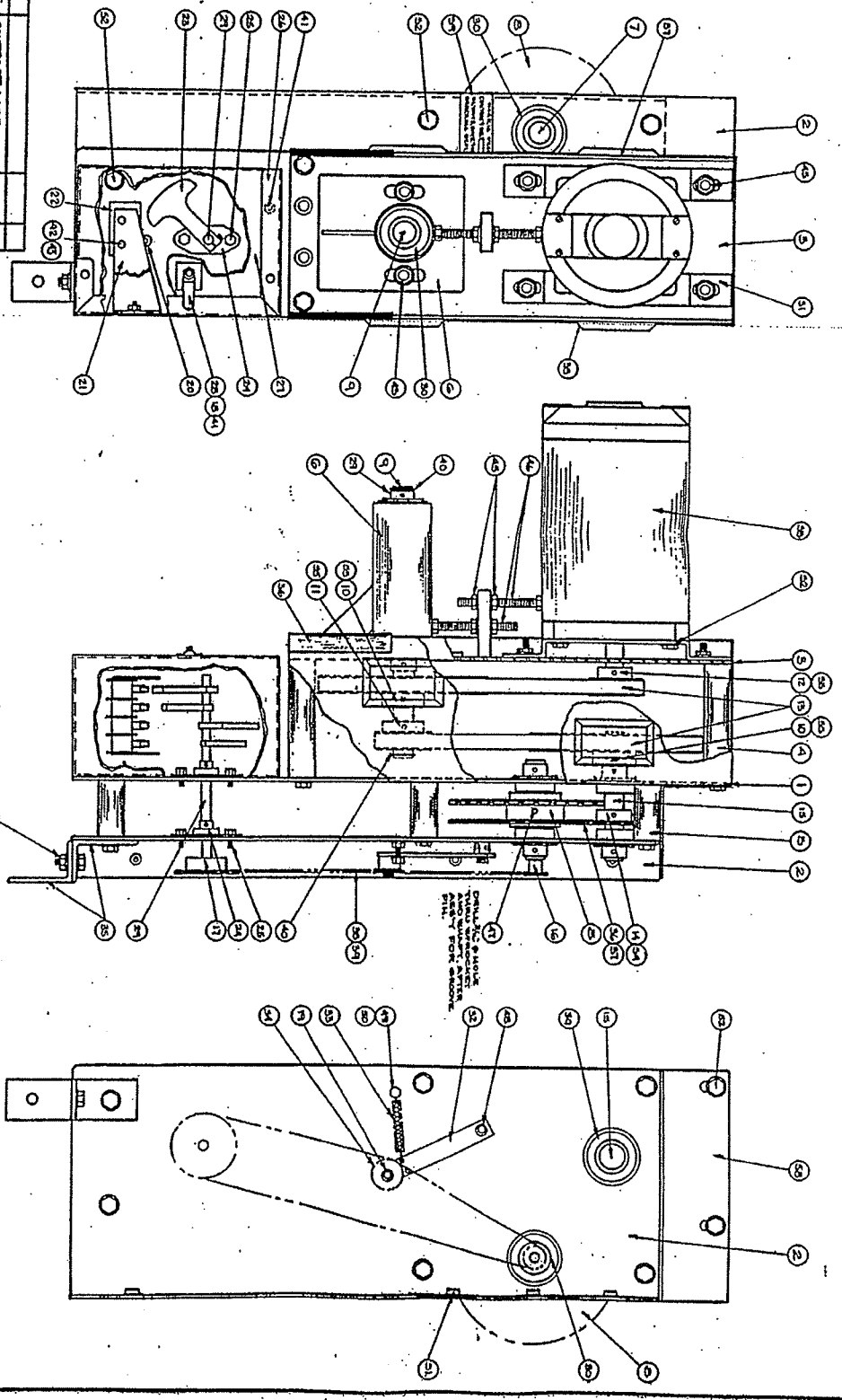
D USE NUT LOCKING GRADE SEALANT ON ALL SET SCREWS

RIGHT HAND OPERATOR SHOWN

Dee-Cee M&V DOOR OPERATOR	HARRIS MODEL
	PIRE DOOR OPERATOR
	CHILDED MODEL
	DC-9059

Part No.	Description	Part No.	Part No.
1	MAIN PLATE	DC-111	1
2	MOUNTING PLATE	DC-111	1
3	MOTOR WIND. PLATE	DC-111	1
4	MOTOR SHAFT SPACER	DC-111	4
5	BEARER PLATE SPACER	DC-111	4
6	BEARER PLATE	DC-111	1
7	DUAL SPRING SHAF	DC-111	1
8	DUAL SPRING SHAF	DC-111	1
9	INTERMEDIATE SHAF	DC-111	1
10	PALEY ASSEMBLY	DC-111	2
11	PALEY ASSEMBLY	DC-111	1
12	PALEY ASSEMBLY	DC-111	1
13	V-BELT ASSEMB	DC-111	2
14	SPRING SHAF	DC-111	1
15	DRIVE SHAF	DC-111	1
16	SPRING SHAF	DC-111	1
17	SPRING SHAF	DC-111	1
18	WINDING SHAF	DC-111	1
19	WINDING SHAF	DC-111	1
20	MOTOR SHAF	DC-111	1
21	MOTOR SHAF	DC-111	1
22	DRIVE SHAF	DC-111	1
23	DRIVE SHAF	DC-111	1
24	WINDING SHAF	DC-111	1
25	WINDING SHAF	DC-111	1
26	WINDING SHAF	DC-111	1
27	WINDING SHAF	DC-111	1
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51	WINDING SHAF	DC-111	1
52	WINDING SHAF	DC-111	1
53	WINDING SHAF	DC-111	1
54	WINDING SHAF	DC-111	1
55	WINDING SHAF	DC-111	1

NOTE:
 A- FOR SHIP DOORS 60" HIGHER USE USE DC-111 PART 20 TERM
 5-1" TO 10" HIGH USE DC-111 PART 30
 11" TO 12" HIGH USE DC-111 PART 40
 B- ALL SET SCREWS TO BE REPLACED WITH
 NYLOCK SET SCREWS
 C- DIMPLE SHAFT UNDER BEARING SET SCREWS
 D- CAUTION LABEL TO BE IN THIS LOCATION ONLY
 E- CONTRACT LABEL (USE WHEN ORDERING PARTS FOR JOB)

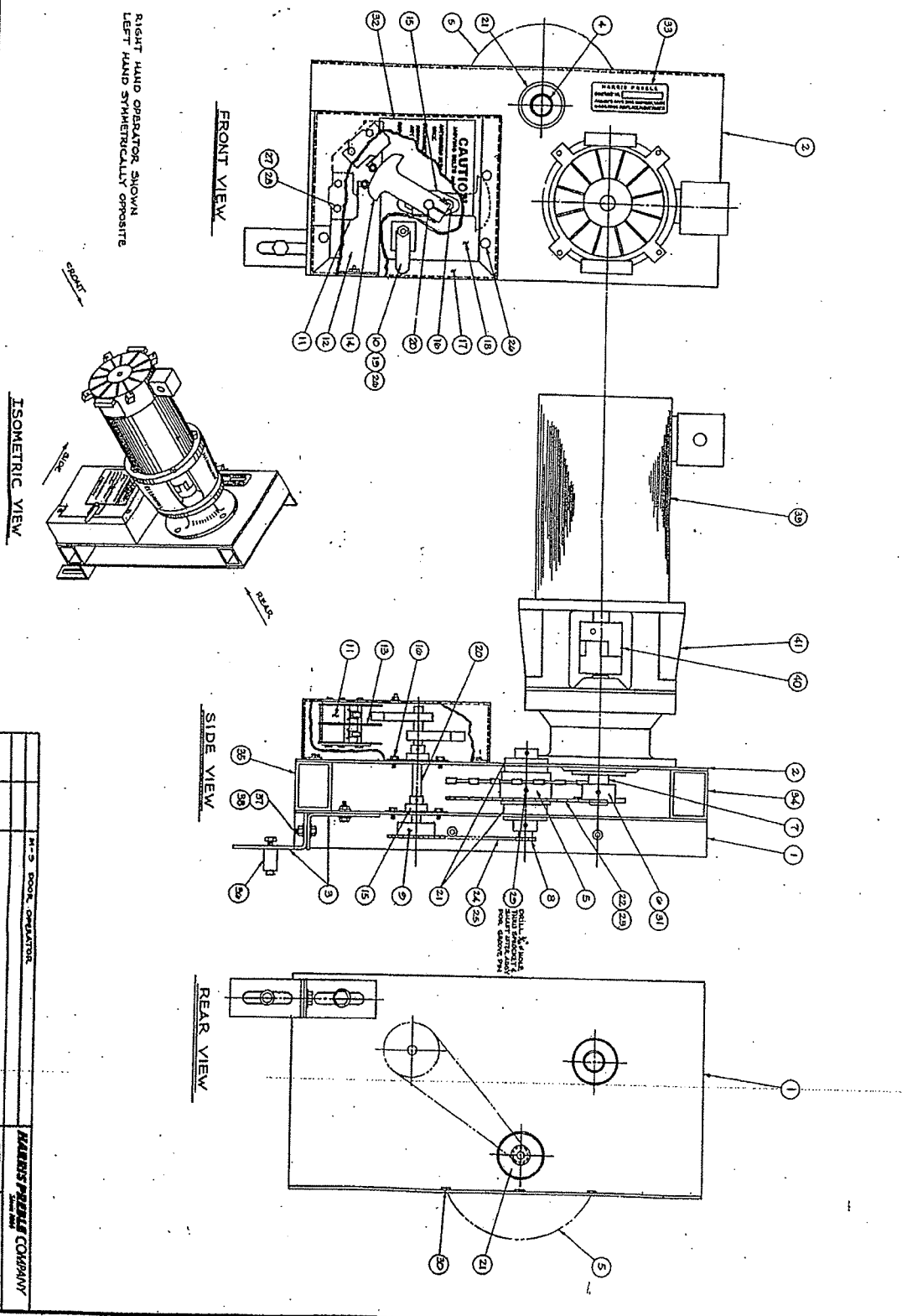


RIGHT HAND OPERATOR SHOWN
 LEFT HAND SYMMETRICALLY OPPOSITE

Part No.	Description	Part No.	Part No.
56	CONTRACT LABEL	DC-111	1
57	DUST COVER	DC-111	1
58	CAUTION LABEL	DC-111	1
59	COVER REPAIRER	DC-111	2
60	BELT COVER	DC-111	1

ITEM	DESCRIPTION	PART NO.	QTY.
1	MAIN PLATE	DC-1029	1
2	WATER MFG. PLATE	DC-1030	1
3	WALL BRACKET	DC-1105	2
4	DRIVE SPROCKET	DC-1021	1
5	DRIVE SPROCKET	DC-1022	1
6	DRIVE SHAFT	DC-1174	1
7	SPROCKET 2569	DC-1168	1
8	SPROCKET 2892A	DC-1167	1
9	1/2-20 ATC STUD	DC-1169	2
10	MICRO SWITCH	DC-1161	1
11	SWITCH BRACKET	DC-1161	1
12	BARBER DISULATOR	DC-1166	3
13	CAM CYCLE CONTROL	DC-1006	2
14	RELAY-MICRO SWITCH	DC-1164	2
15	1/2-20 X 1/2 HEX HD BOLT	DC-1019	4
16	CIRCLE CONTROL BOX-COVER	DC-1019	1
17	LATCH	DC-1167	1
18	CAM SHAFT	DC-1167	1
19	RELAY-MICRO SWITCH	DC-1164	1
20	1/2-20 ROLLER CHAIN	DC-1170	1
21	CONNECTING LINK	DC-1170	1
22	1/2-20 ROLLER CHAIN	DC-1170	1
23	1/2-20 ROLLER CHAIN	DC-1170	1
24	1/2-20 ROLLER CHAIN	DC-1170	1
25	1/2-20 ROLLER CHAIN	DC-1170	1
26	1/2-20 ROLLER CHAIN	DC-1170	1
27	1/2-20 ROLLER CHAIN	DC-1170	1
28	1/2-20 ROLLER CHAIN	DC-1170	1
29	1/2-20 ROLLER CHAIN	DC-1170	1
30	1/2-20 ROLLER CHAIN	DC-1170	1
31	1/2-20 ROLLER CHAIN	DC-1170	1
32	1/2-20 ROLLER CHAIN	DC-1170	1
33	1/2-20 ROLLER CHAIN	DC-1170	1
34	1/2-20 ROLLER CHAIN	DC-1170	1
35	1/2-20 ROLLER CHAIN	DC-1170	1
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39	1/2-20 ROLLER CHAIN	DC-1170	1
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100	1/2-20 ROLLER CHAIN	DC-1170	1

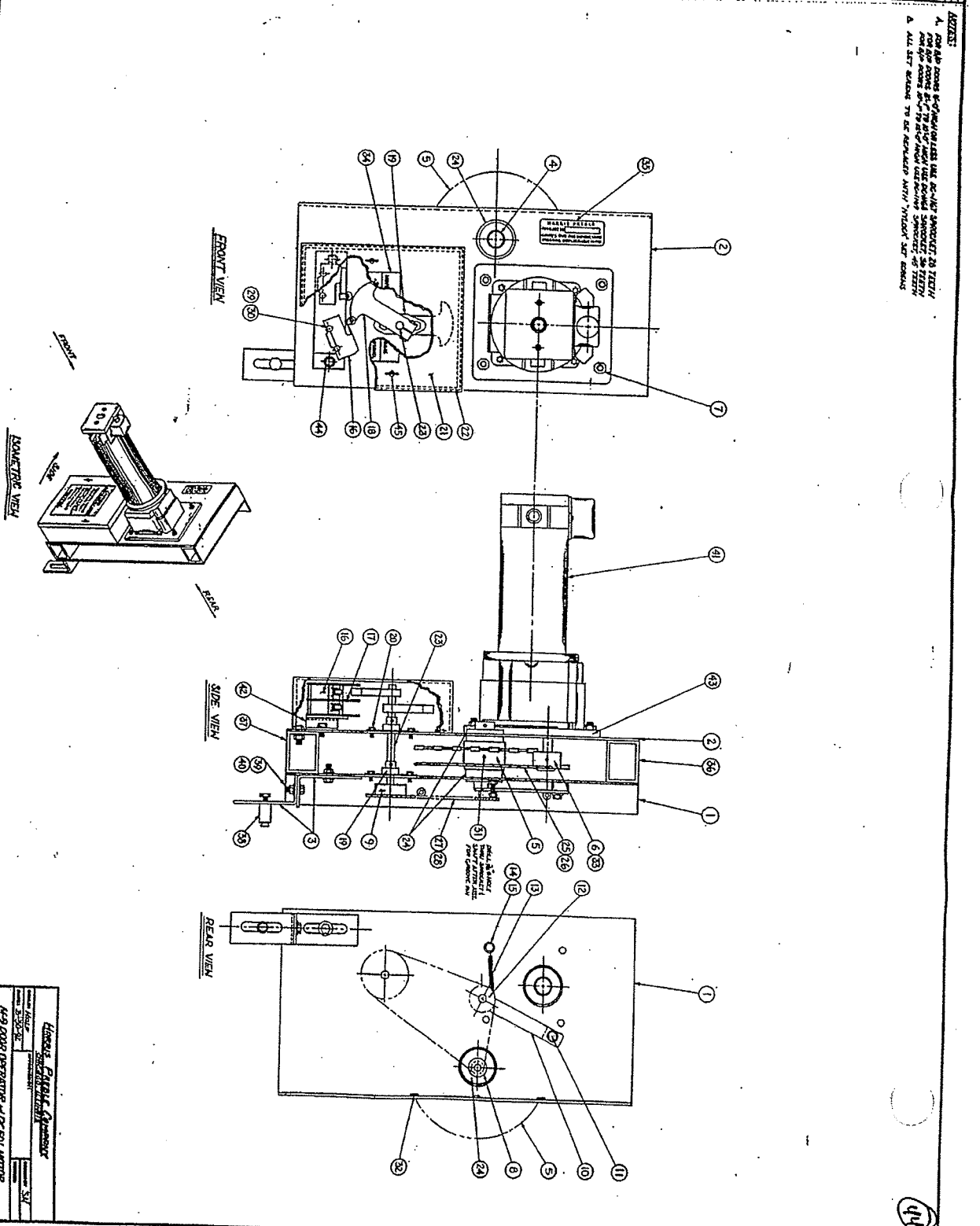
NOTES:
 A. FOR W/P DOORS 41" HIGH OR LESS USE DC-1107 SPROCKET, 24 PITCH FOR W/P DOORS 41" TO 46" HIGH USE DC-1108 SPROCKET, 24 PITCH FOR W/P DOORS 47" TO 52" HIGH USE DC-1109 SPROCKET, 24 PITCH.
 B. ALL SET SCREWS TO BE REPLACED WITH "NYLOCK" SET SCREWS.
 C. CAUTION LABEL TO BE APPLIED TO DC-1012 CYCLE DRIVE COVER AT ASSEMBLY.
 D. CONTRACT LABEL (USE WHEN OPERATE PARTS FOR JOB).
 E. THIS MODEL FOR SEVERAL USES ONLY.



M-2 DOOR OPERATOR		HARRIS-FREEMAN COMPANY	
REV.	DATE	REV.	DATE
1	11-17-58	1	11-17-58
DC-9158		DC-9158	

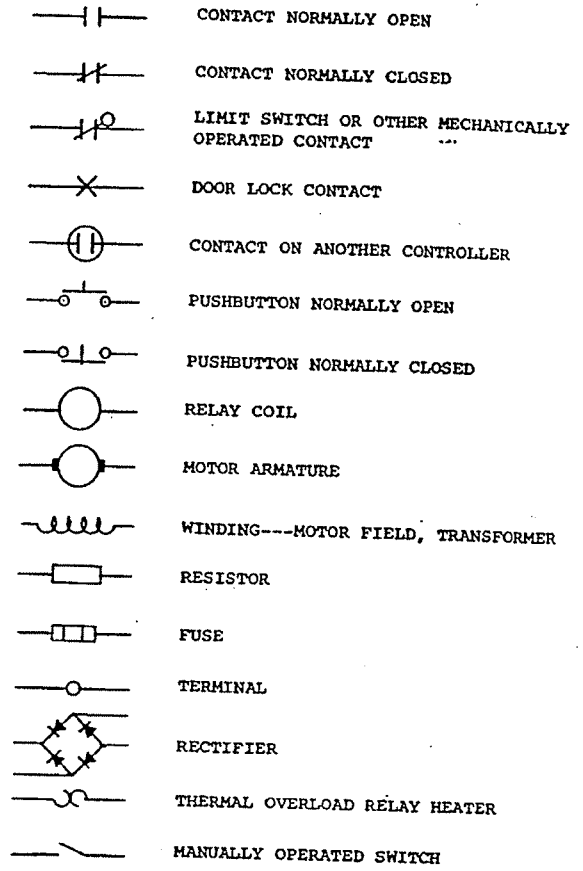
Item No.	Description	Part Number	Quantity
1	MAIN CASE	PC-100A	1
2	COVER	PC-100B	1
3	FRONT PANEL	PC-100C	1
4	REAR PANEL	PC-100D	1
5	CONTROL PANEL	PC-100E	1
6	CONTROL PANEL	PC-100F	1
7	CONTROL PANEL	PC-100G	1
8	CONTROL PANEL	PC-100H	1
9	CONTROL PANEL	PC-100I	1
10	CONTROL PANEL	PC-100J	1
11	CONTROL PANEL	PC-100K	1
12	CONTROL PANEL	PC-100L	1
13	CONTROL PANEL	PC-100M	1
14	CONTROL PANEL	PC-100N	1
15	CONTROL PANEL	PC-100O	1
16	CONTROL PANEL	PC-100P	1
17	CONTROL PANEL	PC-100Q	1
18	CONTROL PANEL	PC-100R	1
19	CONTROL PANEL	PC-100S	1
20	CONTROL PANEL	PC-100T	1
21	CONTROL PANEL	PC-100U	1
22	CONTROL PANEL	PC-100V	1
23	CONTROL PANEL	PC-100W	1
24	CONTROL PANEL	PC-100X	1
25	CONTROL PANEL	PC-100Y	1
26	CONTROL PANEL	PC-100Z	1
27	CONTROL PANEL	PC-100AA	1
28	CONTROL PANEL	PC-100AB	1
29	CONTROL PANEL	PC-100AC	1
30	CONTROL PANEL	PC-100AD	1
31	CONTROL PANEL	PC-100AE	1
32	CONTROL PANEL	PC-100AF	1
33	CONTROL PANEL	PC-100AG	1
34	CONTROL PANEL	PC-100AH	1
35	CONTROL PANEL	PC-100AI	1
36	CONTROL PANEL	PC-100AJ	1
37	CONTROL PANEL	PC-100AK	1
38	CONTROL PANEL	PC-100AL	1
39	CONTROL PANEL	PC-100AM	1
40	CONTROL PANEL	PC-100AN	1
41	CONTROL PANEL	PC-100AO	1
42	CONTROL PANEL	PC-100AP	1
43	CONTROL PANEL	PC-100AQ	1
44	CONTROL PANEL	PC-100AR	1
45	CONTROL PANEL	PC-100AS	1
46	CONTROL PANEL	PC-100AT	1
47	CONTROL PANEL	PC-100AU	1
48	CONTROL PANEL	PC-100AV	1
49	CONTROL PANEL	PC-100AW	1
50	CONTROL PANEL	PC-100AX	1
51	CONTROL PANEL	PC-100AY	1
52	CONTROL PANEL	PC-100AZ	1
53	CONTROL PANEL	PC-100BA	1
54	CONTROL PANEL	PC-100BB	1
55	CONTROL PANEL	PC-100BC	1
56	CONTROL PANEL	PC-100BD	1
57	CONTROL PANEL	PC-100BE	1
58	CONTROL PANEL	PC-100BF	1
59	CONTROL PANEL	PC-100BG	1
60	CONTROL PANEL	PC-100BH	1
61	CONTROL PANEL	PC-100BI	1
62	CONTROL PANEL	PC-100BJ	1
63	CONTROL PANEL	PC-100BK	1
64	CONTROL PANEL	PC-100BL	1
65	CONTROL PANEL	PC-100BM	1
66	CONTROL PANEL	PC-100BN	1
67	CONTROL PANEL	PC-100BO	1
68	CONTROL PANEL	PC-100BP	1
69	CONTROL PANEL	PC-100BQ	1
70	CONTROL PANEL	PC-100BR	1
71	CONTROL PANEL	PC-100BS	1
72	CONTROL PANEL	PC-100BT	1
73	CONTROL PANEL	PC-100BU	1
74	CONTROL PANEL	PC-100BV	1
75	CONTROL PANEL	PC-100BW	1
76	CONTROL PANEL	PC-100BX	1
77	CONTROL PANEL	PC-100BY	1
78	CONTROL PANEL	PC-100BZ	1
79	CONTROL PANEL	PC-100CA	1
80	CONTROL PANEL	PC-100CB	1
81	CONTROL PANEL	PC-100CC	1
82	CONTROL PANEL	PC-100CD	1
83	CONTROL PANEL	PC-100CE	1
84	CONTROL PANEL	PC-100CF	1
85	CONTROL PANEL	PC-100CG	1
86	CONTROL PANEL	PC-100CH	1
87	CONTROL PANEL	PC-100CI	1
88	CONTROL PANEL	PC-100CJ	1
89	CONTROL PANEL	PC-100CK	1
90	CONTROL PANEL	PC-100CL	1
91	CONTROL PANEL	PC-100CM	1
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93	CONTROL PANEL	PC-100CO	1
94	CONTROL PANEL	PC-100CP	1
95	CONTROL PANEL	PC-100CQ	1
96	CONTROL PANEL	PC-100CR	1
97	CONTROL PANEL	PC-100CS	1
98	CONTROL PANEL	PC-100CT	1
99	CONTROL PANEL	PC-100CU	1
100	CONTROL PANEL	PC-100CV	1

A. FOR ALL ROOMS EQUIPPED WITH THE CONTROL SYSTEM IN THESE ROOMS THE ROOMS MUST BE EQUIPPED WITH THE CONTROL SYSTEM AND ALL SET POINTS TO BE RECHECKED WITH THE SET POINTS.

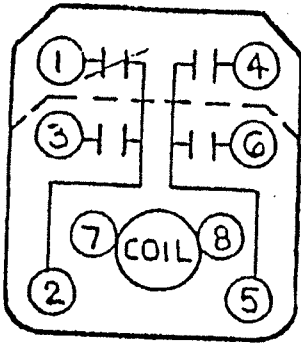


Control Panel Operator
 Model No. 439
 439 CONTROL OPERATOR A.C. RLY MOTOR
 AC 240V

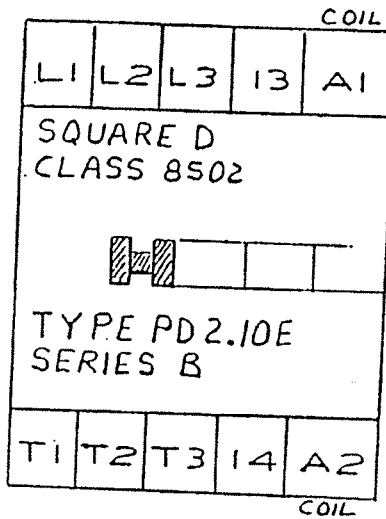
- CC - CAR GATE CLOSING CONTACTOR
- CCF - CAR GATE CLOSING FINAL LIMIT
- CCS - CAR GATE CLOSING SLOWDOWN LIMIT
- CO - CAR GATE OPENING CONTACTOR
- COF - CAR GATE OPENING FINAL LIMIT
- COS - CAR GATE OPENING SLOWDOWN LIMIT
- CS - CAR GATE SLOWDOWN RELAY
- F - FUSE
- HB - HALL BUTTON HOLDING RELAY
- HC - HATCH DOOR CLOSING CONTACTOR
- HCA - DOOR CLOSE AUXILIARY RELAY
- HCF - HATCH DOOR CLOSING FINAL LIMIT
- HCR - DOOR CLOSE SIGNAL RELAY
- HCS - HATCH DOOR CLOSING SLOWDOWN LIMIT
- HO - HATCH DOOR OPENING CONTACTOR
- HOF - HATCH DOOR OPENING FINAL LIMIT
- HOS - HATCH DOOR OPENING SLOWDOWN LIMIT
- HS - HATCH DOOR SLOWDOWN RELAY
- HST - HIGH SPEED DELAY TIMER
- OLC - CAR GATE OVERLOAD RELAY
- OLH - HATCH DOOR OVERLOAD RELAY
- R - RESISTOR
- RC - RETIRING CAM RELAY
- RCT - RETIRING CAM PROTECTIVE TIMER
- SE - SAFETY EDGE RELAY
- SEC - SAFETY EDGE CONTACT
- TC - CLOSE DELAY TIMER
- TD - CLOSE INITIATION TIMER
- Z - ZONING RELAY OR CONTACT



ELECTRICAL ABBREVIATIONS & SYMBOLS					HARRIS PREBLE FIRE DOORS, INC. CHICAGO 50, ILL.	
					DATE AUG 1964	DWG. NO. E-401
REVISIONS	APP'D	CHECKED	DWN. BY JWS	SCALE NONE		

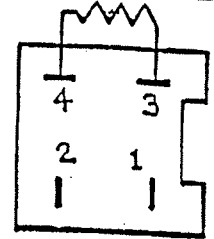


P & B RELAY E-1033
 PRILAY - DPDT
 PRD11AYO - 120 P & B
 425XEX STRUTHERS-DUNN
 W199AX-14 MACNECRAFT
 302-11T100 MIDTEX
 20241-83 DELTROL

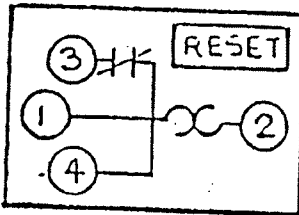


E-1181 SQUARE D CONTACTOR

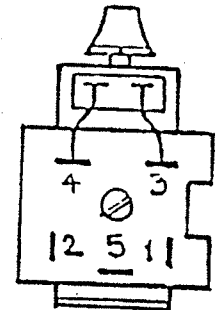
RESISTOR OR POT
 DEPENDING ON APPLICATION



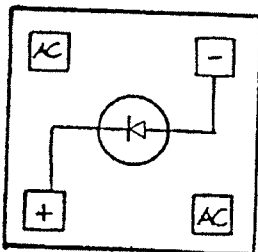
SYRACUSE TIMER
 E-1123 SBS - 7B4311
 (.6-60 sec)
 E-1159 SBS 7B2320
 (3.0-300 sec)



OVERLOAD RELAY
 9065-CO-1/E-1041
 HEATER B1.16/E-1042



E-1149 RETIRING CAM TIMER ASS'Y
 ASS'Y PARTS:
 E-1126 SYRACUSE TIMER
 (SDS-7B2320) WITH
 E-1040 POT &
 E-1141 BRACKET
 (REPLACES E-1040
 SEE DRAWING E-1149
 FOR INSTALLATION).



RECTIFIER E-1092
 PHOTONICS KBPC2510
 SURGE SUPPRESSOR
 Z250LA40A

2/90 CONTACT-
 ORS

DRAWN

1/83 CONTACT-
 ORS

11/88 RECTIFIER

TERMINAL DESIGNATIONS

HARRIS PREBL COMPANY
 CHICAGO 60650

DATE DWG. NO.

9-6-85

E-402

REVISIONS

APP'D

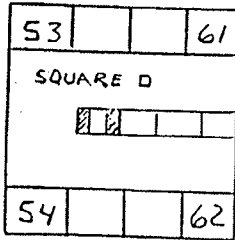
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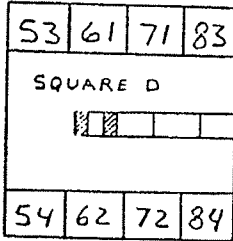
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SCALE

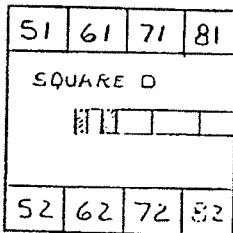
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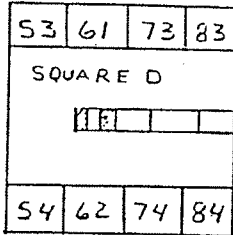
E-1183 AUX. CONTACT BLOCK PN11 1-NO/1-NC



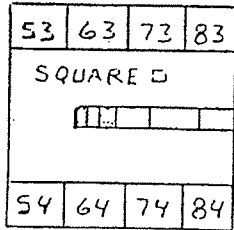
E-1184 AUX. CONTACT BLOCK PN22 2-NO/2-NC



E-1185 AUX. CONTACT BLOCK PN04 4-NC



E-1186 AUX. CONTACT BLOCK PN31 3-NO/1-NC



E-1187 AUX. CONTACT BLOCK PN40 4-NO

FRACTIONAL DIM. ± 1/64
DECIMAL DIM. AS SHOWN

HARRIS PREBLE
COMPANY
CHICAGO 60650

REVISIONS		APP'D	CHECKED <i>JB</i>	DWN. BY R.H	SCALE NONE	DATE 2/16/90	DWG. NO. E-402A
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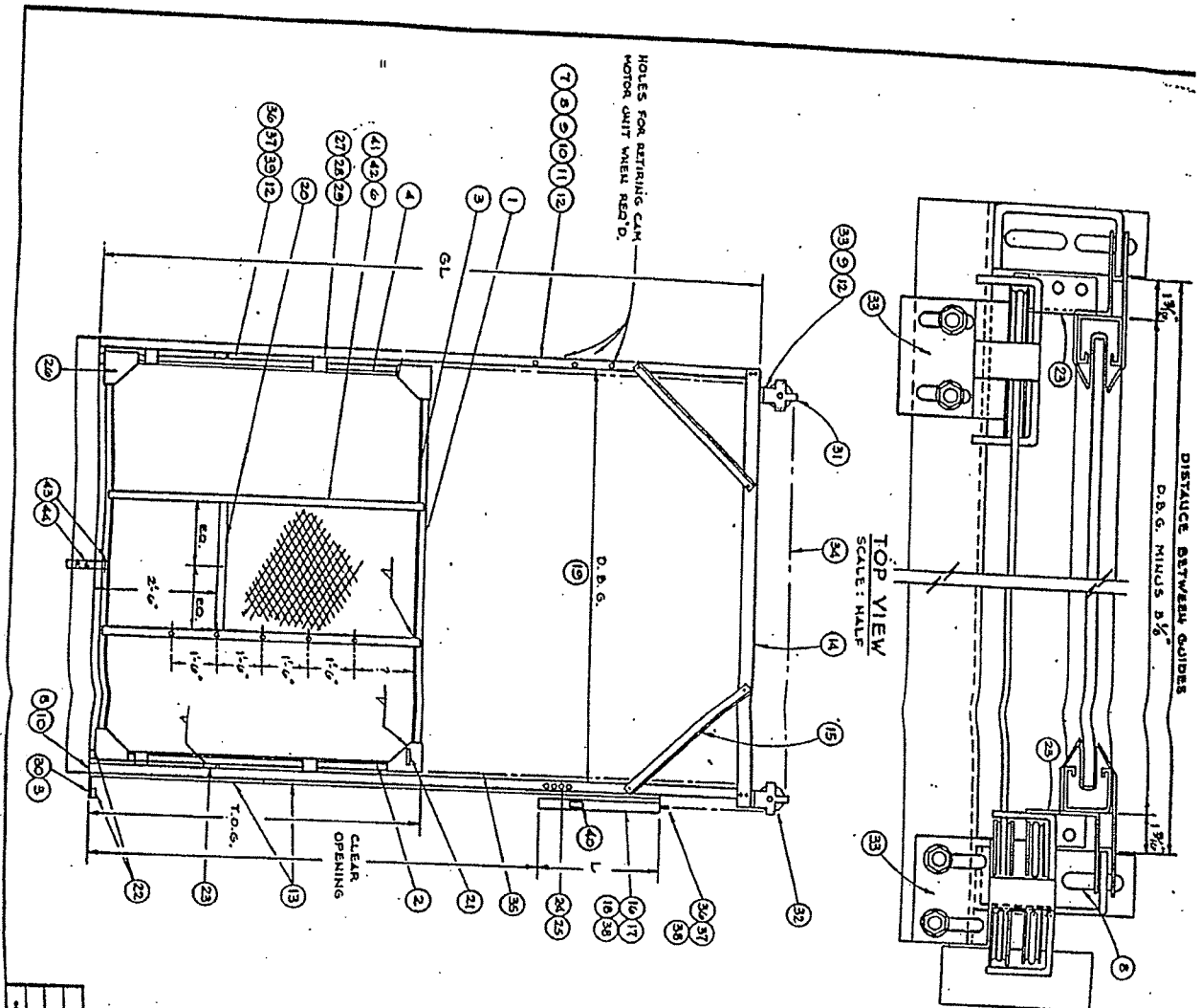
48

OLC, OLM	E-1041 E-1042	SQUARE D OVERLOAD RELAY 9065-CO-1 SQUARE D THERMAL ELEMENT B1.16
HATCH & GATE RECTIFIER	E-1092 E-1143	PHOTRONICS KBPC2510 RECTIFIER BRIDGE SURGE SUPPRESSOR Z250LA40A
R1, R2	E-1046	CLAROSTAT OR OHMITE RESISTOR 150 OHM 50 WATT
HO(R) - HC(R) CO(R) - CC(R)	E-1181	ASEA REVERSING CONTACTOR EH9C-1, 12QV AC OR SQUARE D TYPE PD 2.10E
CST, HST	E-1123	SYRACUSE DELAY SBS-7B4311 (.6 - 60 SEC.)
DCT*, CTD*	E-1159	SYRACUSE DELAY SBS-7B2320 (3 - 300 SEC.)
RCT	E-1149	RETIRING CAM TIMER ASSY. (.0 - 300 SEC.)
TRANSFORMERS	E-1049 E-1050 E-1051 E-1097	FOREST DL-303 460/230V 60HZ FOREST DL-118 550V 60HZ FOREST DL-174 400V 50HZ FOREST DL-273 415V 50HZ
RELAYS & CONTACTORS	E-1033 E-1181	POTTER & BRUMFIELD PRD11AYO 120V AC ASEA CONTACTOR EH9C-1 120V AC OR SQUARE D TYPE PD S.10E
MECHANICAL INTERLOCK	E-1182	ASEA MECH. INTERLOCK EHMI-12 OR SQUARE D CLASS 9999 TYPE PMV SERIES P
AUXILARY CONTACT BLOCKS	E-1183 E-1184 E-1185 E-1186 E-1187	ASEA AUX. CONTACT BLOCK EHAD-11 OR SQUARE D CLASS 9999 TYPE PN11 ASEA AUX. CONTACT BLOCK EHAD-20 (2-N.O.) OR SQUARE D CLASS 9999 TYPE PN22 ASEA AUX. CONTACT BLOCK EHAD-04 (4-N.C.) OR SQUARE D CLASS 9999 TYPE PN04 ASEA AUX. CONTACT BLOCK EHAD-31 (3-N.O./ 1-N.C.) OR SQUARE D CLASS 9999 TYPE PN31 ASEA AUX. CONTACT BLOCK EHAD-40 (4-N.O.) OR SQUARE D CLASS 9999 TYPE PN40

*NOTE: ONLY FOUND ON MPPB CONTROLLERS

ALL LISTED COMPONENTS SUBJECT TO SUBSTITUTION BY MANUFACTURER.

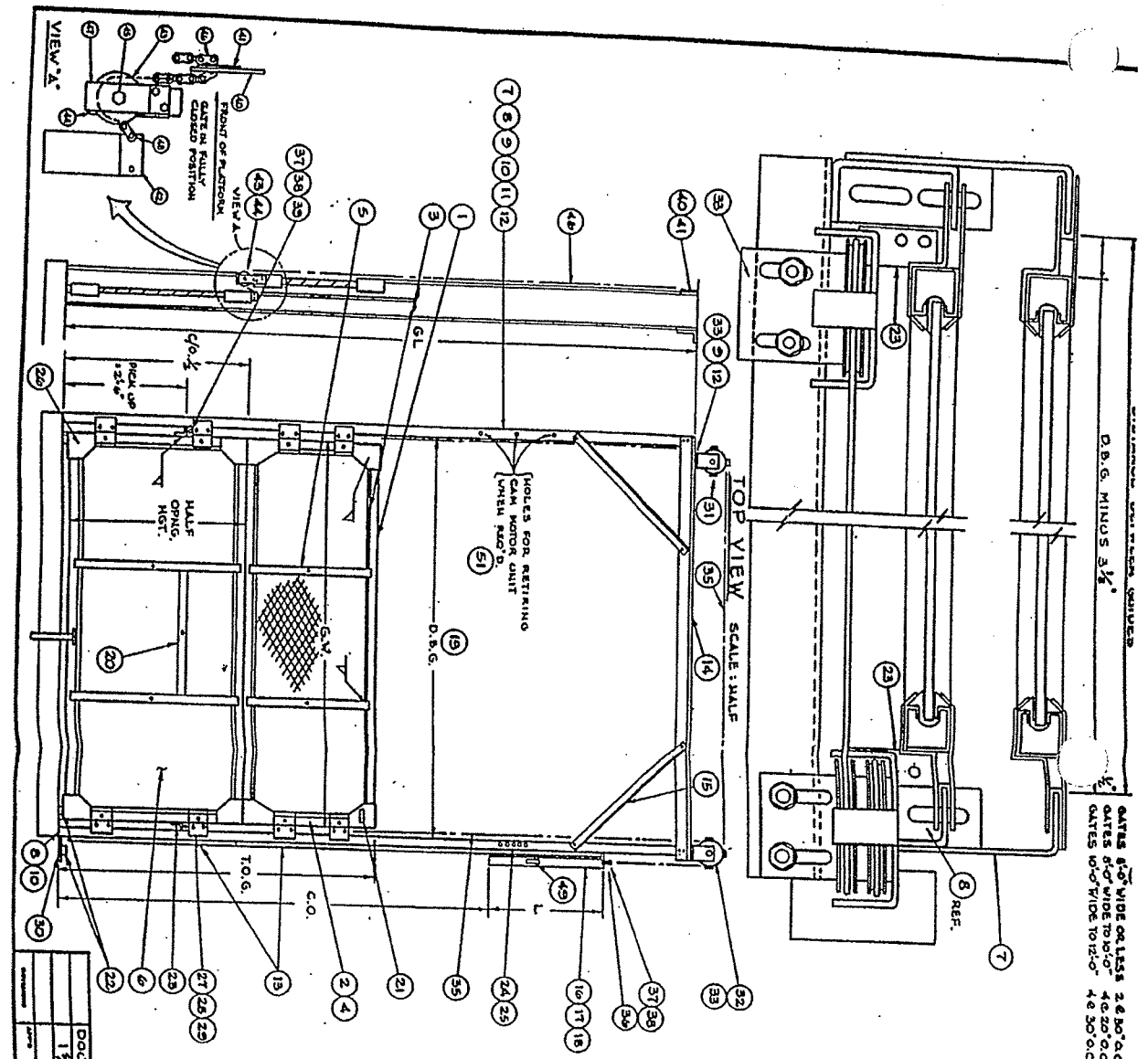
2-15-90		DEE-CEE CONTROLLER PARTS LIST			FRACTIONAL DIM. ± 1/64" DECIMAL DIM. AS SHOWN	
					HARRIS PREBL COMPANY CHICAGO 60650	
REVISIONS	APP'D	CHECKED	OWN. BY	SCALE	DATE	DWG. NO.
					1-6-89	E-408



NOTE:
 GATES 8'-0" WIDE 4 LESS 2 @ 30" O.C.
 GATES 8'-0" WIDE TO 10'-0" @ 30" O.C.
 GATES 10'-0" WIDE TO 12'-0" @ 30" O.C.

Part No.	Description	Quantity	
1	DC-4210	HORIZ. MEMBER 1 1/2" UNISTRUT	2
2	DC-4210	VERT. MEMBER 1 1/2" UNISTRUT	2
3	DC-4217	HORIZONTAL TRIM P2584	2
4	DC-4217	VERTICAL TRIM P2584	2
5	DC-4225	RAILS CHANNEL 1 1/2" x 3/8" 10 GA.	2
7	DC-4170	GATE GUIDE (12'-0" MIN.) DC-4170	2
8	DC-4224	HEX HD FL. 3/8" x 1" L.G.	2
9		HEX HD FL. 3/8" x 1" L.G.	2
10		HEX HD FL. 3/8" x 1" L.G.	4
11		HEX HD FL. 3/8" x 1" L.G.	12
12		HEX FL. NUT 3/8" - 10	32
13	DC-4005	CWT. GUIDE 1/2" x 1 1/2" x 1/4"	12
14	G-184	TOP SPREADER 2" x 2" x 1/4" L.S.	12
15		SWAY BRACES - 2" x 2" x 1/4" L.S.	12
16	G-185	CWT. 2" x 4" - 10. HRS	2
17	DC-4212	CWT. GUIDE BUTTON	2
18		3/4" x 1" STUD	2
19		SPREADER GAUGE 1 1/2" x 1 1/2" x 1/4"	1
20		LEFT HANDLE BOTH SIDE 1 1/2" x 1/4"	2
21	D-551	NAME PLATE	1
22	DC-4048	RUBBER BUMPER	3
23	DC-4210	GATE PICKUP BRACKET	2
24	DC-4050	PAYNE ØB CONTACT	1
25	DC-4046	GATE CONTACT BRACKET	1
26	DC-4227	CORNER FOR P-2000 UNISTRUT	8
27	DC-4211	GUIDE SHOE SPACER	4
28	DC-4208	CAR GATE GUIDE SHOE	4
29		CAR GATE GUIDE SHOE	4
30	DC-4004	CWT. STOP	1
31	G-506	SINGLE SHEAVE ASSEMBLY	1
32	G-506	DOUBLE SHEAVE ASSEMBLY	1
33	G-114	SHEAVE MOUNTING PLATE	2
34	G-195	AIRCRAFT CABLE	1
35	G-195	AIRCRAFT CABLE	1
36	G-190	3/16" CABLE CLIPS	6
37	G-191	3/16" TRIMBLE	4
38	G-186	WITCH CWT.	1
39	G-192	EYE BOLT 3/8" - 1 1/2" L.S.	2
40	DC-4052	CWT CONTACT STRIKE	2
41		1/2" - 20 x 2" WELDED STUDS	12
42		1/2" - 20 FL. HEX HD W/TS	12
43	D-115	POLL STRAP RETAINER	1
44	D-519	POLL STRAP	1
		1/4" - 20 x 2" THIMS W/FL. NUT	6
		1/4" - 20 x 1" THIMS W/FL. NUT	11

SINGLE SECTION MANUAL GATE ASSY		PARTS LIST	
1 1/8" P-2000 UNISTRUT		G-180	
HARRIS HEAVY		G-180	
GATE		G-180	
GATE		G-180	



NO.	DESCRIPTION	QTY.	REMARKS
1	DC-4210	1	WDRG. MEMBER 1 1/2" QUINSTRUT
2	DC-4210	1	VERT. MEMBER 1 1/2" QUINSTRUT
3	DC-4217	1	HORIZ. TRIM P-2584
4	DC-4217	1	VERT. TRIM P-2584
5	DC-4225	1	REINFORCED COUNTER WIPER
6	DC-4225	1	EXPANDED METAL GR-2 1/2" CW-23
7	G-187	1	GATE GUIDE ASSEMBLY
8	DC-4224	1	GATE GUIDE FOOT
9	PH. HD. CTRK 3/8" x 1 1/2" x 1 1/4"	2	
10	HEX. HD. FL. 3/8" x 10" x 3/16"	2	
11	HEX. HD. FL. 3/8" x 10" x 3/16"	4	
12	HEX. FLANGE NUTS 3/8" x 10"	20	
13	DC-4008	1	CWT. GUIDE 1 1/2" x 1 1/2" x 1 1/2"
14	TOP SPREADER 2" x 2 1/2" x 3/16"	1	
15	SWAY BRACE 2" x 2 1/2" x 3/16"	1	
16	G-185	1	CWT. 2" x 4" LG.
17	DC-4212	1	CWT. GUIDE BUTTON
18	3/8" x 10" x 1" STRIP	2	
19	SPREADER GAUGE 1 1/2" x 1 1/2" x 1 1/2"	2	
20	LIFT HANDLE 1 1/2" x 1 1/2" x 1 1/2"	2	
21	O-551	1	NAME PLATE
22	DC-4048	1	RUBBER BUMPER
23	DC-4048	1	GATE PICKUP BRACKET
24	DC-4050	1	PRIVE OR CONTACT
25	DC-4046	1	GATE CONTACT BRACKET
26	DC-4227	1	QUSET FOR 1 1/2" QUINSTRUT
27	DC-4208	1	GUIDE SHOE SOLDER
28	DC-4208	1	GUIDE SHOE PART "A"
29	DC-4209	1	GUIDE SHOE PART "B"
30	DC-4004	1	SINGLE CWT. STOP
31	G-115	1	DOUBLE SHEAVE ASSEMBLY
32	G-112	1	DOUBLE SHEAVE ASSEMBLY
33	G-114	1	SHEAVE MOUNTING PLATE
34	G-195	1	AIRCRAFT CABLE 20L-24-C.O.-DPT 1
35	G-195	1	AIRCRAFT CABLE 20L-24-C.O.-DPT 1
36	G-186	1	COUNTERWEIGHT HITCH
37	G-190	1	3/16" CABLE CAPS
38	G-191	1	3/16" TRIMBLE
39	G-192	1	EYE BOLT 3/8" x 10" x 3/16"
40	DC-4120	1	DEAD END HITCH
41	DC-4113	1	CHAIN CLIP
42	DC-4011	1	DOUBLE SECTION PICKUP BRACKET
43	DC-4049	1	SHEAVE - NICE 2108
44	DC-4214	1	SHEAVE - MOUNTING BRACKET
45	HEX. HD. BOLT 3/8" x 10" x 3/16"	2	
46	965 ROLLER CHAIN GL-10" x 3/8"	2	
47	DC-4215	1	MOUNTING BRACKET
48	965 CHAIN CONNECTING LINK	2	
49	DC-4052	1	CWT. CONTACT STRIKE
50	DC-4106	1	35 CONIL. LINK FOR 710 CHAIN
51	D-519	1	RESTRING CAM WTG. PLATE
52	D-519	1	PULL STRAP
53	D-115	1	PULL STRAP RETAINER
			1/2" x 20" x 2" STRIP W/FL. NUTS
			1/2" x 20" x 1" TRIMS W/FL. NUT
			1/2" x 20" x 1" DIMERONS SELF TAPPING

DOUBLE SECTION MANUAL GATE ASSEMBLY
 1 1/2" QUINSTRUT P-2000
 MADE IN CHINA
 G-181

(5)

MAIN GUIDE RAIL 3, 13/32 DIA. HOLES IN EACH GUIDE TO RECEIVE EITHER M1-A INTER-LOCK OR M1-B LOCK AND CONTACT: RIGHT OR LEFT HAND.

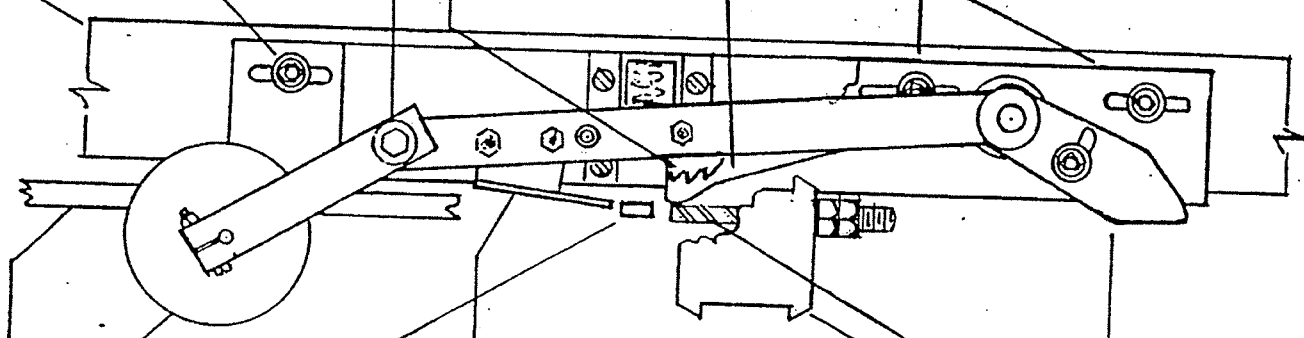
(3) LOCK ATTACHING BOLTS, 3/8-16 x 1 1/4" HEX HEAD FLANGE LOCK BOLTS AND NUTS. ENTIRE LOCK ASSEMBLY ADJUSTABLE 1-5/8" VERTICALLY, UP AND DOWN

ROLLER ADJUSTMENT NUT.

M1-108 LOCK ENGAGING MEMBER - ADJUSTABLE 1/2" HORIZONTALLY, IN AND OUT - (ENGAGES M1-124 LOCK HOOK ON DOOR WHEN CAM RETIRES BEFORE INTERLOCK CONTACT MAKES - WHEN CAM ADVANCES, DISENGAGES AFTER INTERLOCK CONTACT BREAKS)

M1-103A CONTACT MAKING MEMBER, ACTIVATED BY TRUCKING BAR EXTENSION: ADJUSTABLE HORIZONTALLY AND VERTICALLY, IN, OUT, UP, AND DOWN.

(2) 3/8 WASHERS TO BE USED AS SPACER BETWEEN LOCK & TRACK ON PASS TYPE DOORS ONLY.



5/8" CHAIN ROD

3" DIA. CAM ACTIVATED ROLLER. (ADJUSTABLE HORIZONTALLY: IN AND OUT)

INTERLOCK CONTACT MAKES UP WHEN CAM RETRACTS.

FOR REGULAR DOORS, INSTALL UPPER PANEL KEEPER M1-263R ON HATCH SIDE OF AUTO-LATCH KNEE, D-693.

FOR PASS AND BUILT-OUT-SILL DOORS, INSTALL UPPER PANEL KEEPER M1-263PB ON ROOM SIDE OF KNEE, PASS D-694, BOS D-695.

ADJUST CATCH M1-262 AND MOUNTING BRACKET M1-261, ON THE INTERLOCK SO THAT WHEN THE TOP OF THE M1-108 RATCHET IS APPROXIMATELY 1/8" BELOW THE UPPER LATCH POINT ON THE SILL END CASTING WITH THE DOORS CLOSED. THE UPPER PANEL CATCH IS 1/8" ABOVE AND FLUSH WITH THE ROOM SIDE OF THE KEEPER. AFTER THE INTERLOCK HAS BEEN ADJUSTED ACTIVATE IT AND OPEN THE DOORS. NOW WITH THE INTERLOCK ENGAGED (AS IF THE RETIRING CAM HAS BEEN RETRACTED) CLOSE THE DOORS TO MAKE SURE THERE IS NO INTERFERENCE BETWEEN THE AUTO-LATCH AND THE CATCH ON THE INTERLOCK. SEE DRAWING M1-1002.

M1-124 CHAIN ROD EYE AND LOCK HOOK (ON DOOR)

3/8" TRUCKING BAR EXTENSION ON DOOR (ENGAGES M1-103A TO MAKE ELECTRIC CONTACT.)

DOOR CONTACT MAKES UP WHEN DOOR CLOSES.

M1-104 TRUCKING BAR FOLLOWER ADJUSTABLE TAIL. (ADJUSTABLE TO POSITIVELY BREAK ELECTRIC CIRCUIT UPON OPENING OF DOOR.)

SIDE ELEVATION - RIGHT HAND

M1-A INTERLOCK

M1-B LOCK AND CONTACT

HARRIS PREBLE
 COMPANY
 CHICAGO 60650

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					6/21/76	M1-136

REF: DWG. M1-223, M1-1002

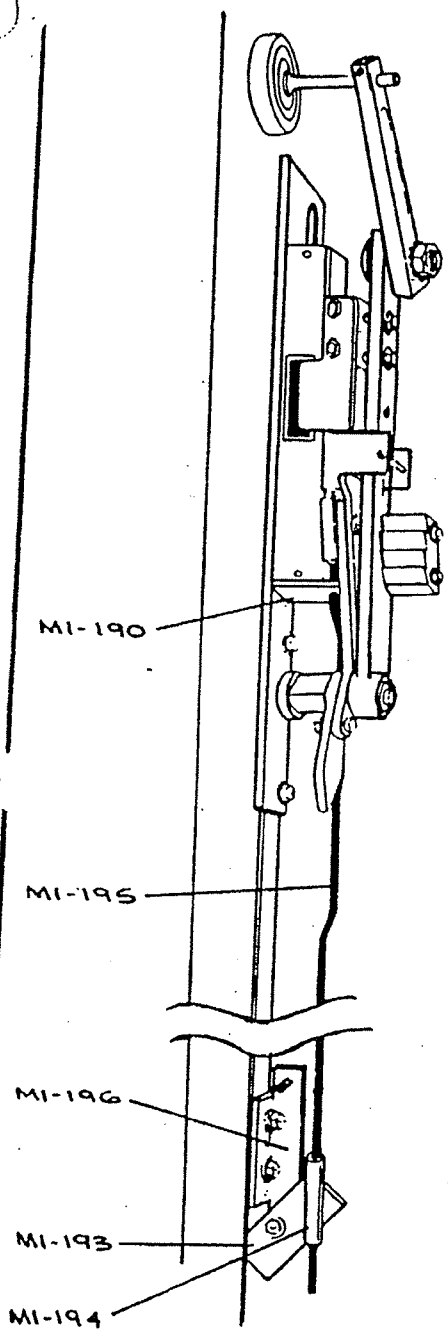


FIG. A
DOOR OPEN

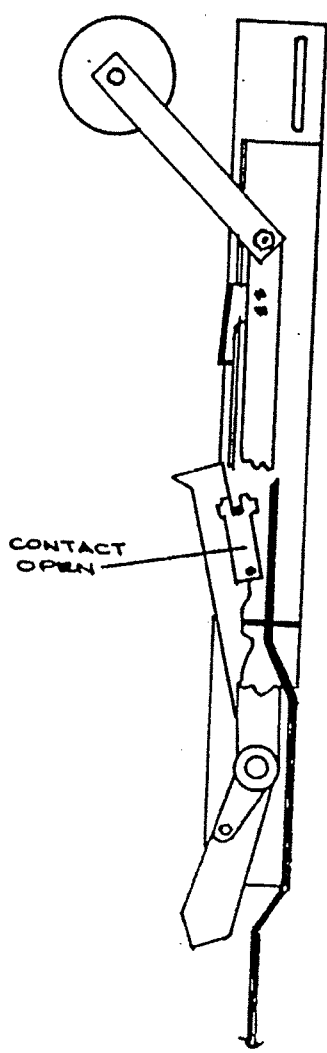


FIG. B
DOOR OPEN

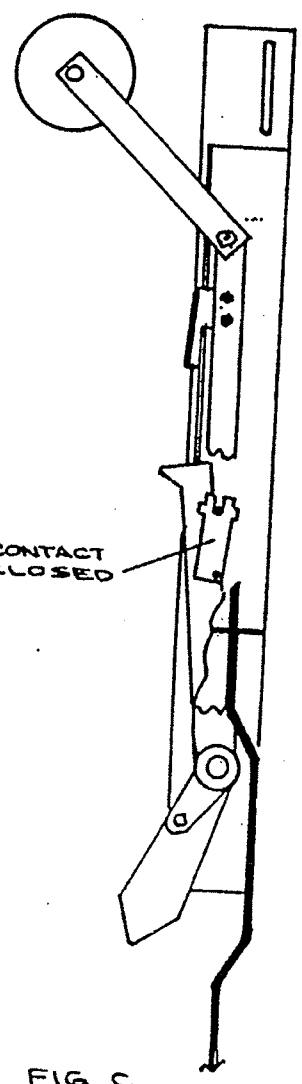


FIG. C
DOOR CLOSED

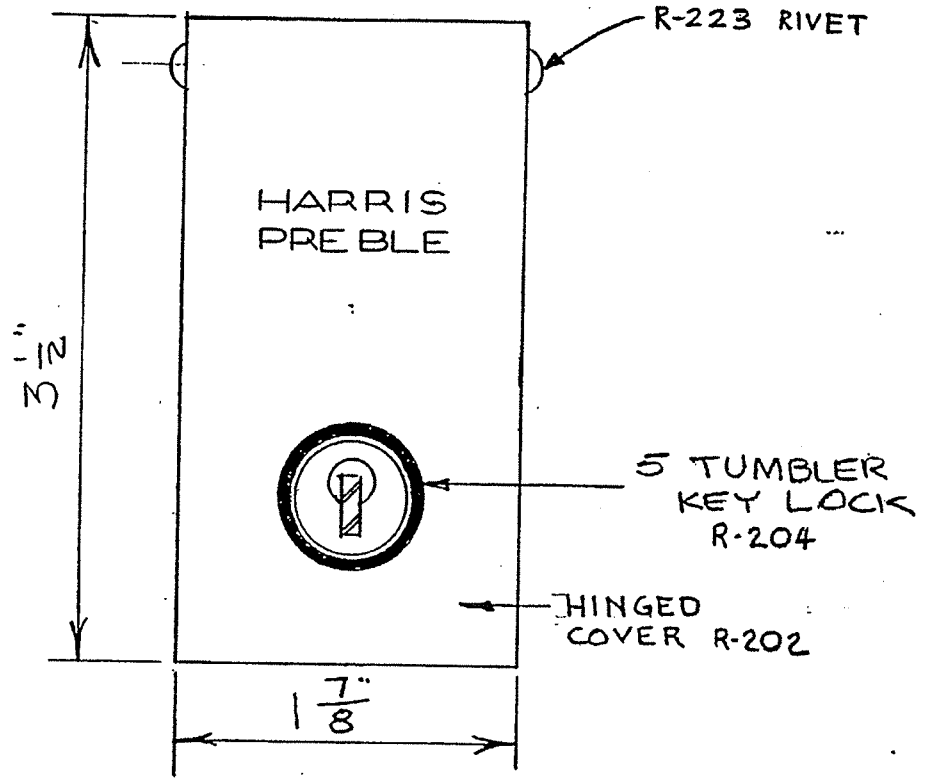
INSTALLATION AND ADJUSTMENT INSTRUCTIONS

Assemble to guide and Interlock as shown. Adjust height of rod with set screws in MI-194 so that rod prevents closing of contact when door is open and drops down to allow contact to close when door is fully closed. Drill thru MI-194 and rod with 1/8" drill and drive in pin.

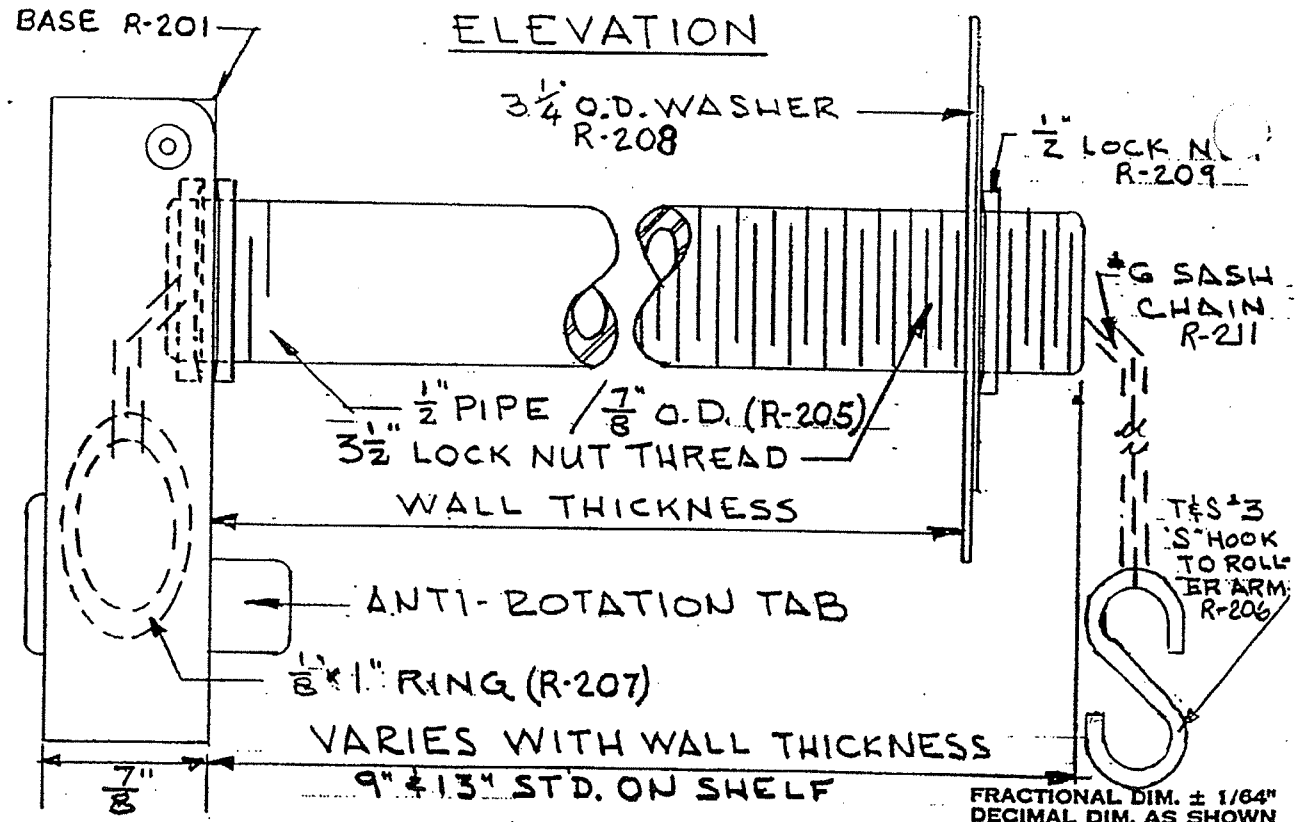
It is not intended that the rod force the contact to open or hold it in extreme open position. Rod is only required to prevent closing of contact when door is open.

MI TAMPERPROOF DEVICE					HARRIS PREBLE COMPANY CHICAGO 60680	
DESIGNED BY DRAWN 8-11-76					DATE AUGUST 1964	DWS. NO. MI-201
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ELEVATION

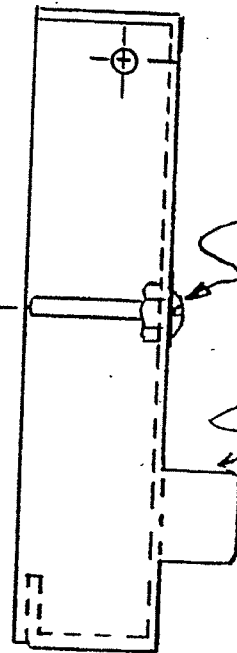
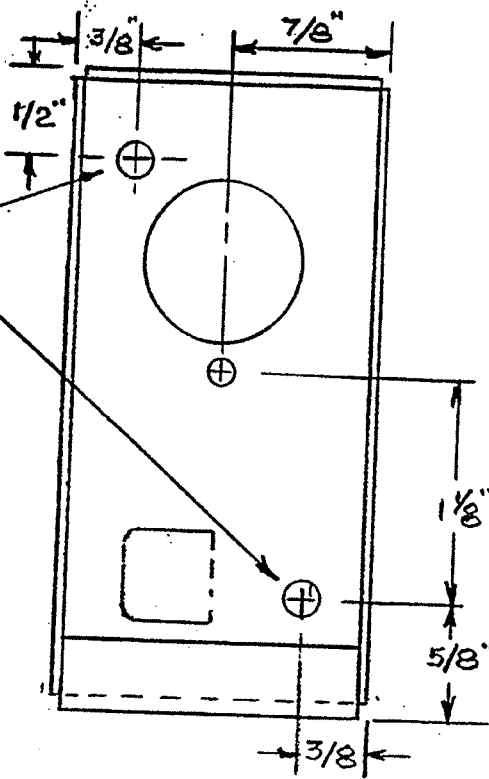


FRACTIONAL DIM. ± 1/64" DECIMAL DIM. AS SHOWN

R-208-04524 4-11-64		R-200 EMERGENCY RELEASE			HARRIS PREBLE FIRE DOORS, INC. CHICAGO 60650	
		COMPLIES WITH USAS A17.16 RULE 111.11(2)			DATE 3-11-70	
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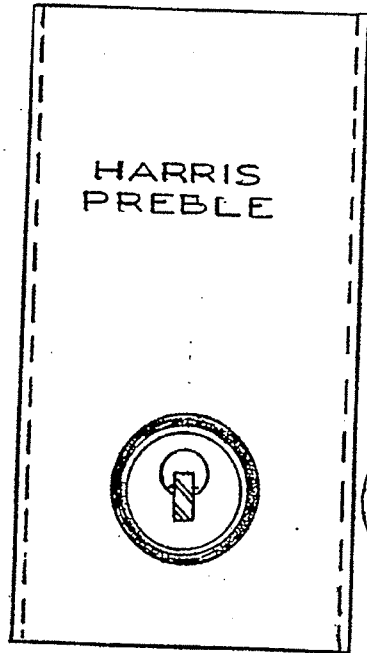
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(2) 3/16 DIA. HOLES

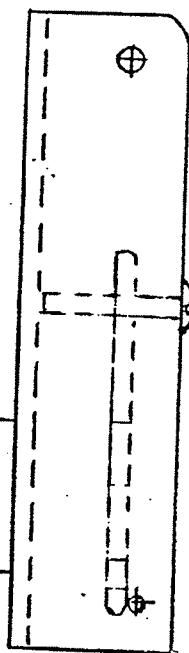
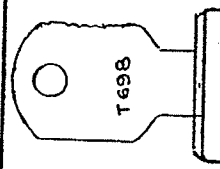


6-32 MACH. SCREW

FOLD TAB BACK FLUSH



HARRIS PREBLE



FURNISH (2) KEYS
(1) INSIDE (1) OUTSIDE

FRACTIONAL DIM. ± 1/64"
DECIMAL DIM. AS SHOWN

KEY BOX

R212 EMERGENCY RELEASE

NO GLASS

HARRIS PREBLE
COMPANY
CHICAGO 60650

DATE DWG. NO.

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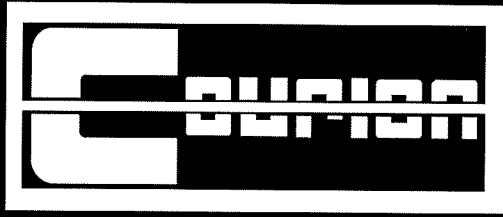
S.V.

SCALE

FULL

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