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<td>DC-8133</td>
<td>M7 GATE OPERATOR WITH DC-501 MOTOR</td>
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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
C-100 RETIRING CAM ASSEMBLY

LEFT & RIGHT HAND

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

REVISED
3-1-66

8-13-63 C-100
PLACE SHEAVE ON 5/8 SHAFT AT END OF KEYWAY BEFORE TIGHTENING SET SCREW

TAPE PIN TO OUTSIDE OF SHEAVE

USE WASHERS AS REQ'D. TO BRING BOLTS FLUSH WITH BOTTOM OF BASE

C-153 CAM MOUNTING BRACKET BOLTED TO UNIT FOR SHIPPING PURPOSES ONLY, 1 5/8 WASHERS

RETIRING CAM MOTOR UNIT ASSEMBLY

HARRIS PREBLE, COMPANY DRAWING NUMBER C-148
LEFT OR RIGHT HAND DETERMINED BY POSITION OF MOTOR UNIT

ALL SLOTS FOR 3/8 BOLTS

DC-400G A CAM MOUNT PLATE SHIPPED ON GUIDE

(2) 3/16 X 1/2 X 4-X-1/8

PLATE 

INTERLOCK ROLLER

ALT. BRACKET POSITION

PLAN AT CAM

CAM MOVEMENT - 2"
CAM FORCE 20 LBS.
110 V, 1 PH, 60 CY, 10 AMP
50% DUTY CYCLE
30 MIN.-MAX. CONT. DUTY

SIDE ELEV. L.H.
REAR ELEV. L.H.
REAR ELEV. R.H.

GATE POST

MEETING PT. OF G/P DOOR

PLATFORM

ROLL PIN

6" CHAIN-FURNISHED (2) 1/2 TO LENGTH WHEN INSTALLING

CAR TOP

#43 CHAIN

L.H. CORNER VIEW

L.H.
ASSY WEIGHT 8 lbs

SECTION-A-A

ELEVATION

ASSY #20
NEWT ASSY DC-9021
SHEAVE HOUSING ASSEMBLY
#650 SHEAVE
HARRIS PREBLE INC.

FRAC. DECIMAL DMS 3/16
1/16

2 1/4" Round Head Screw with 36-16
D-136-
Bushing

D-1177
HOUSING ASSY

D-1176
HARRIS PREBLE
Since 1864

D-268
LABEL

D-135
WT 1.55 lbs.
GLASS

D-535
WT 1.31 lbs.
FRAME

HATCH SIDE
HALF SIZE

DOOR PANEL
FRAME
GLAZING
COMPOUND

1/8" 20 HEX.
ACORN NUT

1/4" 20 THREADED
WELD STUD

VISION PANEL INSTALLATION
M2F STEEL PLATE DOORS

REF 35.3
FRAC DIM. ± 1/64"
DECIMAL DIM. AS SHOWN

HARRIS PREBLE
COMPANY
CHICAGO 60650

REVISIONS
APPROVED
CHECKED
OWNED BY
SCALE 1/2" = 1'
DATE
DWG. NO.
12-10-80
D-382
### Section C-C

#### Pick-up Kneep
2. 3/8" Spigot Pin
2. 5/8" M12 Washer
3. 3/8" Flange Nut

#### Frame Angle
1. Sheet Steel

#### Relief Angle
1. Sheet Steel

#### Dimensions to Bottom of Sheet
- Cut-out of Sheet
- See DWG. 0-401

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<td>Door Lock Assembly</td>
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<tr>
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<td>Door Lock Assembly</td>
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#### Note
- See DWG. 0-397 for Lock Arrangement
#6 CABLE CHAIN
BL523 leaf

HARRIS PREBLE
COMPANY
CHICAGO 60650

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

DATE 4-1-79 D-513

FULL SCALE

REVISIONS APP'D CHECKED DWN. BY
MATERIAL: CAST MALL. IRON
4 REQ'D. PER PANEL

GUIDE SHOE
PASS TYPE UPPER PANEL ONLY
M2 STEEL PLATE - M3 METAL CLAD & M1 INS. PANEL

HARRIS PREBLE
FIRE DOORS, INC.
CHICAGO 60650

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

REVISIONS
APPD
CHECKED
DRAWN BY
SCALE
5-9-68
D-523
SOLID LINES INDICATE MATERIALS FURNISHED BY HARRIS PREBLE
N.B. Astragals same as used on our U.L. and F-I-X 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-7060 (Astragal)
NOTE:

LOosen 1/2-13 bolts.
Move T.B.S. #2 up or down until sill extension of fully open and level door rests in yoke (level door sill using bubble balance; not building sill. Door sill should not be above building sill at any point.)
Tighten all bolts.

1/2-13 x 2 — Square head bolt with nut & ext. star lock washer (two; bolts must be used at all times.)

3/8-16 x 1 1/2 — Hex head flange bolts with nuts

RIGHT HAND ASSEMBLY SHOWN
LEFT HAND SYMMETRICALLY OPPOSITE
NOTE:
ASSEMBLED WEIGHT 8 LBS.

SECTION 'A-A'

HARRIS PREBLE COMPANY
CHICAGO, ILLINOIS

NOTE:
USE WITH NO. 40
ROLLER CHAIN

SCALE: HALF
DATE: 10-4-90
REPLACES D-176

SPROCKET & HOUSING ASSEMBLY

REF. JECT # 20
10-4-90
SYM. DATE
REVISIONS

DRAWN BY B.H.T.
REvised 10-4-90
TOP PANEL

BOTTOM PANEL

SILL EXTENSION D-264

AUTO-LATCH D-264

RIGHT HAND SHOWN

#40 ROLLER CHAIN

#40 LINK

D-504 1/2-13x1/2 BOLT (2)

D-674 1/4 SPACER

KEEPER BAR (INTL SIDE ONLY)
*NOTE:
USE DC-402G IN PLACE OF DC-402TA FOR REVERSING EDGE PART REPLACEMENT IN FIELD ONLY.
GATE IDLER SPROCKET ASSEMBLY

DC1184 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. LOCK WASHER (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 3/16 GROOV PIN

AFTER ASSY, DRILL HUB & SHAFT 3/16 Ø
DRIVE IN 3/16" X 1 1/2 GROOV PIN

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

HARRIS PREBBLE
FIRE DOORS, INC.
CHICAGO 50, ILL.

DATE
3-6-67

DWG. NO.
DC 8019
BLACK OR
BLUE CAMS
OPEN

BLUE CAM

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

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

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

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

HCS - HATCH DOOR SLOWDOWN LIMIT
CCS - CAR GATE SLOWDOWN 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

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

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

DEE-CEE CYCLE CONTROL
CAM ADJUSTMENT HATCH DOORS & CAR GATES

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

REVISIONS APP'D CHECKED DWN. BY SCALE DATE DWG. NO.
MAR. 66 DC - 9001

DEE-CEE CYCLE CONTROL
CAM ADJUSTMENT HATCH DOORS & CAR GATES

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

REVISIONS APP'D CHECKED DWN. BY SCALE DATE DWG. NO.
MAR. 66 DC - 9001
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.
PLAN VIEW

PARTIAL ELEVATION & PLAN SHOWING
CROSS DRIVE FOR REGULAR DOOR

FIELD MOUNTING CROSS DRIVE

HARRIS PREBLE
COMPANY
CHICAGO, ILLINOIS

0.75/0.75 SCALE FULL

1-12-75 DC-0009A
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

REVISIONS  APP'D  CHECKED  DWN. BY  MK  SCALE 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

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

REVISIONS    APP'D    CHECKED    DWN. BY    SCALE
             JWS

DATE   5-67
DWG. NO. DC 9026

FRACTIONAL DIM. ± 1/64"  DECIMAL DIM. AS SHOWN
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.
RACK CHAIN BRACKET
DC-1199

OPERATOR MOUNTING ANGLE
DC-1198

CYCLE CONTROL

POLY'Y-BELTS

PLATE
DC-1240

RIGHT HAND OPERATOR SHOWN

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

Dee-Cee MG OPERATOR
SHORT SPANDREL

HARRIS PREBLE
FIRE DOORS, INC.
CHICAGO 60650

DATE
04/15/68

DWG. NO.
DC-9057
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
HCP - 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
OLR - 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

CONTACT NORMALLY OPEN
CONTACT NORMALLY CLOSED
LIMIT SWITCH OR OTHER MECHANICALLY OPERATED CONTACT
DOOR LOCK CONTACT
CONTACT ON ANOTHER CONTROLLER
PUSHBUTTON NORMALLY OPEN
PUSHBUTTON NORMALLY CLOSED
RELAY COIL
MOTOR ARMATURE
WINDING—MOTOR FIELD, TRANSFORMER
RESISTOR
FUSE
TERMINAL
RECTIFIER
THERMAL OVERLOAD RELAY HEATER
MANUALLY OPERATED SWITCH

ELECTRICAL ABBREVIATIONS & SYMBOLS

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

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DATE 1964  DWG. NO. E-401
P & B RELAY E-1033
PR1AY - DPST
PRO1AYO - 120 P & B
425X6X STRUTHERS-DUNN
W199AX-14 MACNECRAFT
302-111T100 MIDTEX
20241-63 DELTROL

SQUARE D
CLASS 8502

TYPE PD 2.10E
SERIES B

RESISTOR OR POT
DEPENDING ON APPLICATION

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

E-1181 SQUARE D
CONTACTOR

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

E-1149 RETIRING
CAM TIMER ASS'Y
AS'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
PHOTRONICS KBPC2510
SUNG E SUPPRESSOR
Z250LA-40A

TERMINAL DESIGNATIONS

HARRIS PREBL
COMPANY
CHICAGO 60650

DRAWN

TERMINAL DESIGNATIONS

DATE
Dwg. No.
128
9-6-85
E-402

REVISIONS
APPRO
CHECKED
DRAWN
AS
SCALE

405
405
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
OLC, OLM
HATCH & GATE RECTIFIER
R1, R2
HO(R) - HC(R)
CO(R) - CC(R)
CST, HST
DCT*, CTD*
RCT
TRANSFORMERS
RELAYS & CONTACTORS
MECHANICAL INTERLOCK
AUXILIARY CONTACT BLOCKS

E-1041
E-1092
E-1042
E-1143
E-1181
E-1123
E-1159
E-1149
E-1049
E-1050
E-1051
E-1097
E-1033
E-1181
E-1182
E-1183
E-1184
E-1185
E-1186
E-1187

SQUARE D OVERLOAD RELAY 9065-C0-1
SQUARE D THERMAL ELEMENT B1.16
PHOTRONICS KBPC2510 RECTIFIER BRIDGE
SURGE SUPPRESSOR Z250LA40A
CLEARSTAT OR OHMITE RESISTOR 150 OHM
50 WATT
ASEA REVERSING CONTACTOR EH9C-1,12QV AC
OR SQUARE D TYPE PD 2.1OE
SYRACUSE DELAY SBS-7B4311 (.6 - 60 SEC.)
SYRACUSE DELAY SBS-7B2320 (3 - 300 SEC.)
RETIRED CAM TIMER ASSY. (.0 - 300 SEC.)
FOREST DL-303 460/230V 60HZ
FOREST DL-118 550V 60HZ
FOREST DL-174 400V 50HZ
FOREST DL-273 415V 50HZ
POTTER & BRUMFIELD PRD111AY0 120V AC
ASEA CONTROLLER EH9C-1 120V AC OR
SQUARE D TYPE PD S.10E
ASEA MECH. INTERLOCK EHMI-12 OR
SQUARE D CLASS 9999 TYPE PMW SERIES P
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.

HARRIS PREBL
COMPANY
CHICAGO 60650

DATE
1-6-89

DWG. NO.
E-408

REV. APP'D CHECKED OWNED SCALE

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


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.)

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

(3) LOCK ATTACHING BOLTS, 3/8-16 x 1 1/2" 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.

REF: DWG. M1-223, M1-1002
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.
KEY BOX
R212 EMERGENCY RELEASE
NO GLASS

HARRIS PREBLE
COMPANY
CHICAGO 60650

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

6-32 MACH SCREW
FOLD TAB BACK FLUSH

(2) 3/16 DIA. HOLES
3/8" 7/8" 1/2"
1 1/8"
5/8"
3/8"

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

DATE Dwg. No.
6-18-79 R-212-A

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