



G.A.L. Manufacturing Corporation

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ELECTRO MECHANICAL PARTS BOOK



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OPERATORS		
MODEL	ITEM	PART DWG. No.
MODL 2SP or SS DOORS	OPERATOR	OP-1
MODL CP DOORS	OPERATOR	OP-2
MOML or MOHL 2SP or SS DOORS	OPERATOR	OP-3
MOML or MOHL CP DOORS	OPERATOR	OP-4
MOA 2SP or SS DOORS	OPERATOR	OP-5
MOD	LIMIT CONTROL	OP-10
MODP	LIMIT CONTROL	OP-11
MOM and MOH	LIMIT CONTROL	OP-12
MOM and MOH	TERMINAL BOX	OP-13
MOA	LIMIT CONTROL	OP-14
MOAP	LIMIT CONTROL	OP-15
	INTERMEDIATE PULLEY	OP-20
MOM and MOH	DRIVE PULLEY & BEARING BLOCK ASSY	OP-21
	DRIVE ARM ASSEMBLIES	OP-22
	MOTOR MOUNTING BASE	OP-23
2SP or SS DOORS	DOOR DRIVE ARM SUPPORT	OP-24
2SCP or CP DOORS	DOOR DRIVE ARM SUPPORT	OP-25
CLUTCHES		
TYPE L and LW	CLUTCH	OP-30
TYPE LWZ	ZONE LOCK CLUTCH	OP-30Z
TYPE C and CW	CLUTCH	OP-31
TYPE R	CLUTCH	OP-32
TYPE S	CLUTCH	OP-33
RETIRING CAM		
	RETIRING CAM ASSEMBLY	RC-1
ELECTRIC EYE		
TYPE T	ELECTRIC EYE (DISCONTINUED-PARTS AVAILABLE)	EE-1
TYPE IREE	ELECTRIC EYE (DISCONTINUED-PARTS AVAILABLE)	IREE (PAGE 1 TO 5)



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SAFETY EDGE		
MODEL	ITEM	PART DWG. No.
	QUESTIONNAIRE	Q-SE-5
TYPE RA	RETRACTABLE SAFETY EDGE (OBSOLETE-REPLACED BY SE-5)	SE-1
TYPE RA	SAFETY EDGE SWITCH	SE-2
	FIXED RUBBER SAFETY EDGE	SE-3
TYPE HA	SAFETY EDGE	SE-4
TYPE RA	RETRACTABLE SAFETY EDGE (REPLACEMENT FOR SE-1)	SE-5
TYPE RA	FIXED ALUMINUM SAFETY EDGE	SE-6
TYPE RALX	EXPLOSION PROOF SAFETY EDGE	SE-7
CAR DOOR HANGER		
SS DOORS TYPE A	CAR DOOR HANGER	CDH-1
2SP DOORS TYPE A	CAR DOOR HANGER	CDH-2
CP DOORS TYPE A	CAR DOOR HANGER	CDH-3
2SCP DOORS TYPE A	CAR DOOR HANGER	CDH-4
HATCH DOOR HANGER		
SS DOORS TYPE A	HATCH DOOR HANGER	HH-1
2SP DOORS TYPE A	HATCH DOOR HANGER	HH-2
CP GEARED DOORS TYPE A	HATCH DOOR HANGER	HH-3
2SCP DOORS TYPE A	HATCH DOOR HANGER	HH-4
INTERLOCKS		
MOM and MOH	INTERLOCK	INT-1
MOCP and MOCPH	INTERLOCK	INT-2
MOX and MOXH	INTERLOCK	INT-3 and INT-3A
N, M and SM	KEEPERS	INT-4
M	INTERLOCK	INT-5
M-HA	INTERLOCK	INT-5A
SM	LOCK and CONTACT	INT-6
DM	INTERLOCK	INT-7
SDM	LOCK and CONTACT	INT-8
HD	INTERLOCK	INT-9



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INTERLOCKS

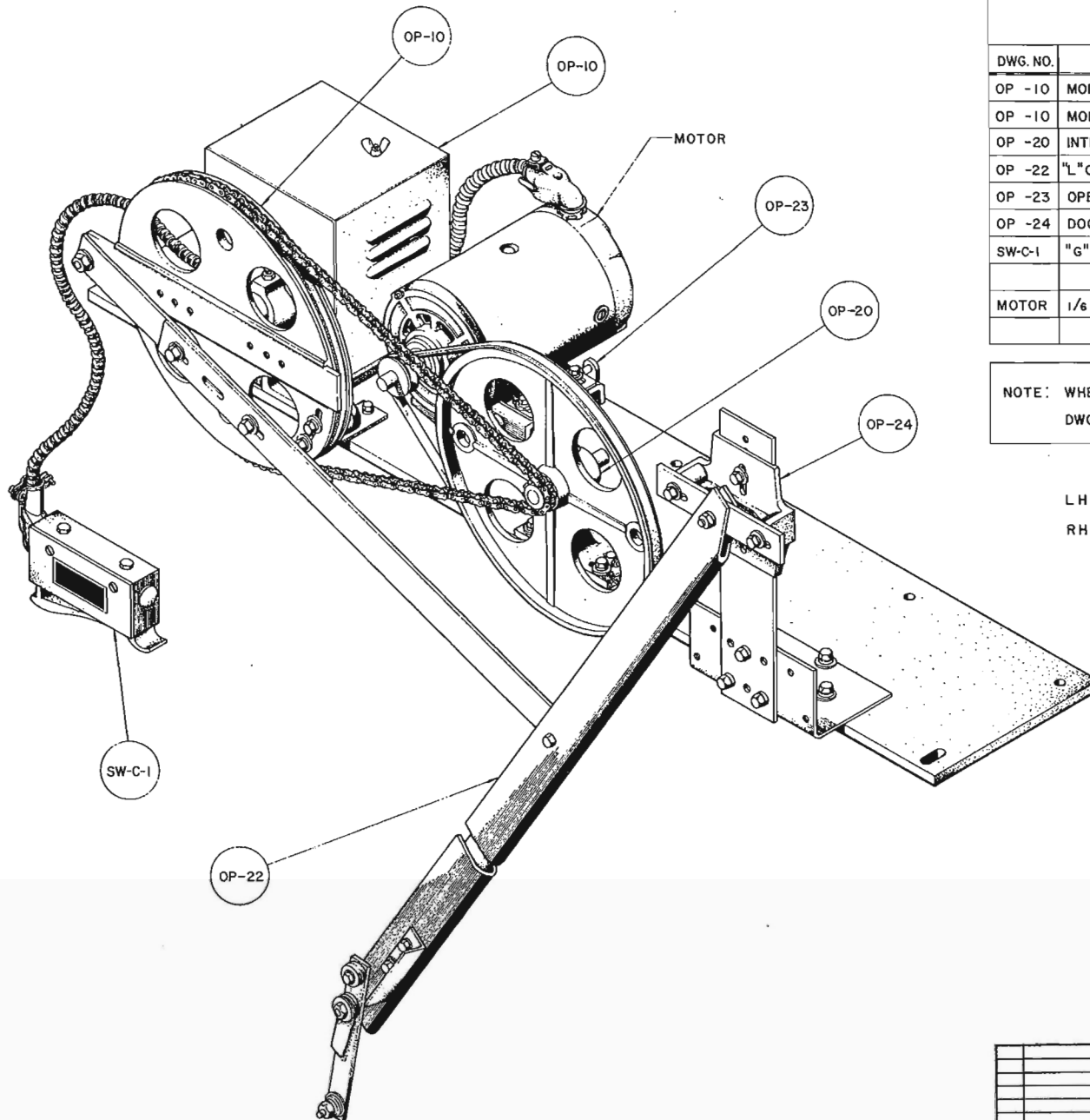
MODEL	ITEM	PART DWG. No.
W	INTERLOCK	INT-10
VR	INTERLOCK	INT-13
K-5	INTERLOCK WITH OPERATING BARS	INT-14
K-5	INTERLOCK WITH CHAIN BOLT AND OPERATING BAR	INT-15
K-1 and K	INTERLOCK	INT-16
WP and WX	INTERLOCK	INT-18
N	INTERLOCK	INT-22

SWITCH AND CONTACTS

G	GATE SWITCH	SW-1
VG	GATE SWITCH	SW-2A
	BROKEN CABLE SWITCH	SW-3
LT	LIMIT SWITCH	SW-4
LS and SC	LIMIT SWITCH	SW-5
LU	MAGNETIC LEVEL SWITCH	SW-8
LUT	MAGNETIC LEVEL SWITCH	SW-9
	SINGLE DOOR CONTACT	SW-10
K-2	DOOR CONTACT	SW-11
AG	DOOR CONTACT	SW-12
CSM	DOOR CONTACT	SW-13

ARM CLOSERS

SS DOORS	BROKEN ARM CLOSER	CL-1
2SP DOORS	BROKEN ARM CLOSER	CL-2
SS DOORS	STRAIGHT ARM CLOSER WITH "HD" INTERLOCK	CL-3
2SP DOORS	STRAIGHT ARM CLOSER WITH "HD" INTERLOCK	CL-4
SS, 2SP, CP and 2SCP DOORS	SPRING DOOR CLOSER	CL-5



MODL DOOR OPERATOR
 TWO SPEED or SINGLE SPEED
 (SLIDING DOORS)

DWG. NO.	DESCRIPTION
OP -10	MOD OPERATOR LIMIT CONTROL
OP -10	MOD DRIVE PULLEY
OP -20	INTERMEDIATE PULLEY & BEARING BLOCK
OP -22	"L" OPERATOR DOOR DRIVE ARM ASS'Y
OP -23	OPERATOR MOTOR MOUNTING BASE
OP -24	DOOR DRIVE ARM SUPPORT
SW-C-1	"G" GATE SWITCH
MOTOR	1/6 HP-220 V DC SHUNT WOUND 1140 RPM

NOTE: WHEN ORDERING, REFER TO SPECIFIC
 DWG. NO. FOR PARTS REQUIRED.

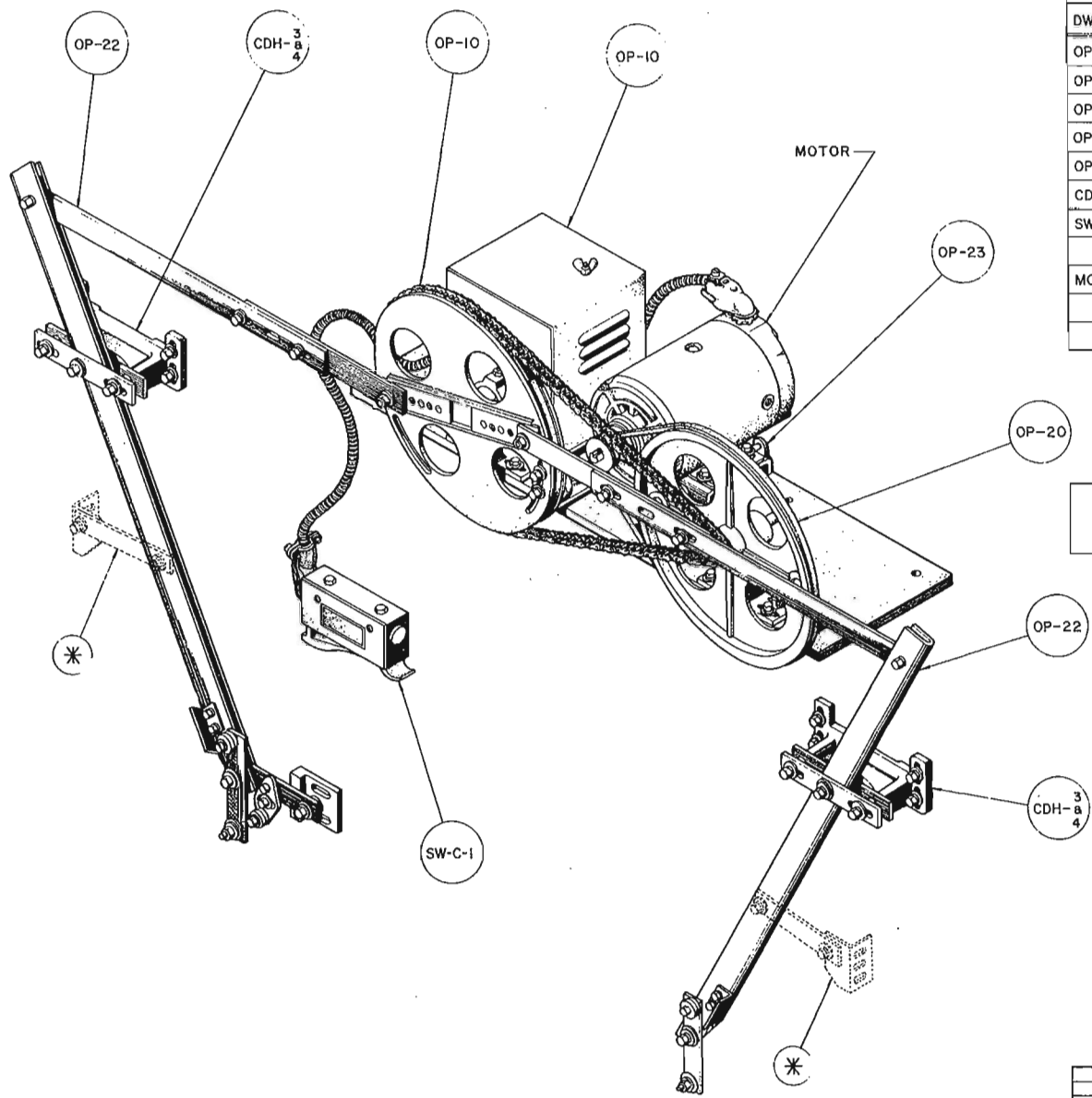
LH SHOWN
 RH OPPOSITE AS SHOWN



MODL DOOR OPERATOR
 TWO SPEED or SINGLE SPEED
 (SLIDING DOORS)

SCALE 1/4 DATE 12 - 12 - 1974
 DWG. BY S. C. H.
 CH'K. BY G. F. D.

NO.	REVISION	DATE	CHK. BY	DWG. NO.
				OP - 1



MODL DOOR OPERATOR
CENTER - PARTING

DWG. NO.	DESCRIPTION
OP -10	MOD OPERATOR LIMIT CONTROL
OP -10	MOD DRIVE PULLEY
OP -20	INTERMEDIATE PULLEY & BEARING BLOCK
OP -22	"L" OPERATOR DOOR DRIVE ARM ASS'Y
OP -23	OPERATOR MOTOR MOUNTING BASE
CDH-3a4	DOOR DRIVE ARM SUPPORT
SW-C-1	"G" GATE SWITCH
MOTOR	1/6 HP - 220V DC SHUNT WOUND 1140 RPM

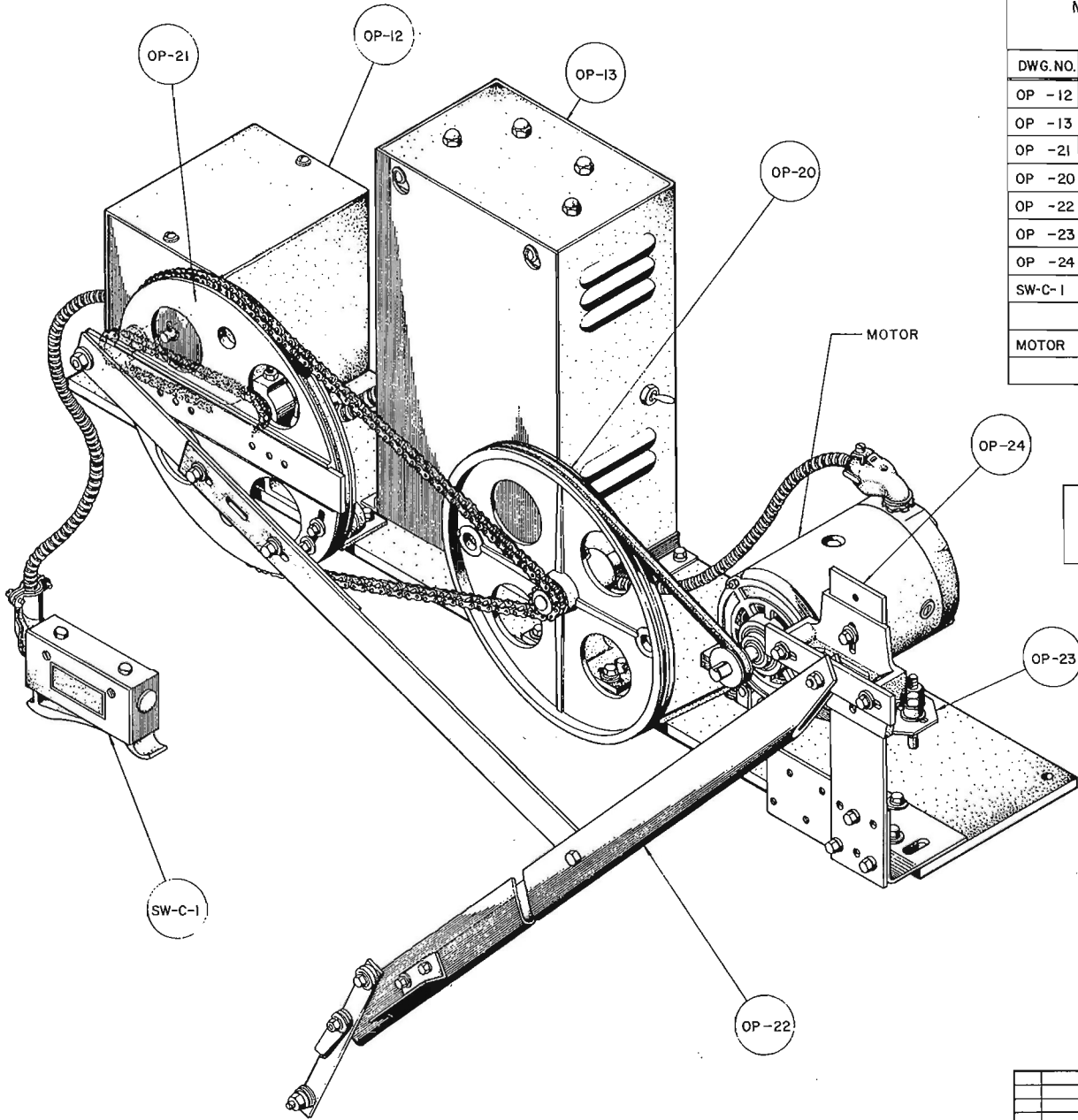
* SLOW DOOR BRACKET & LINK
REQUIRED ON 2SP/CP ONLY

NOTE: WHEN ORDERING, REFER TO SPECIFIC
DWG. NO. FOR PARTS REQUIRED.



MODL DOOR OPERATOR
CENTER - PARTING

SCALE		DATE 11-5-1974	
DWG. BY S. C. M.			
NO.		CHK. BY G. F. D.	
		OP - 2	



MOML or MOHL DOOR OPERATOR
TWO SPEED or SINGLE SPEED
SLIDING DOORS (PARTS LIST)

DWG. NO.	DESCRIPTION
OP - 12	MOM or MOH OPERATOR LIMIT CONTROL
OP - 13	MOM or MOH OPERATOR RESISTOR & TERMINAL BOX
OP - 21	MOM or MOH DRIVE PULLEY & BEARING BLOCK
OP - 20	INTERMEDIATE PULLEY & BEARING BLOCK
OP - 22	L" DRIVE ARM ASS'Y
OP - 23	MOTOR MOUNTING BASE
OP - 24	DOOR DRIVE ARM SUPPORT
SW-C-1	"G" GATE SWITCH
MOTOR	1/4 HP - 220V DC SHUNT WOUND 1140RPM (MOM)
	1/2 HP - 220V DC SHUNT WOUND 1140RPM (MOH)

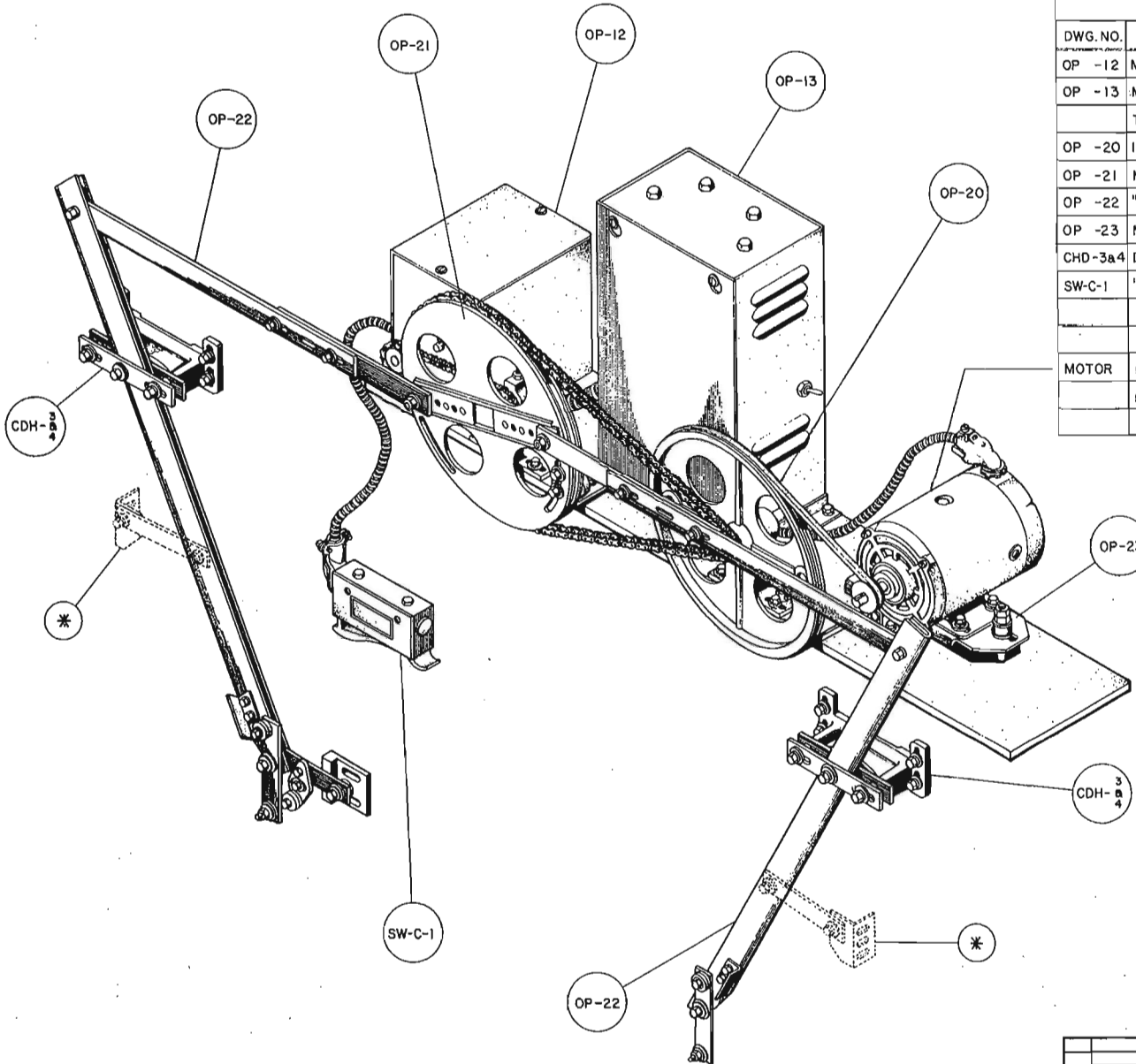
NOTE: WHEN ORDERING, REFER TO SPECIFIC
DWG. NO. FOR PARTS REQUIRED.

LH SHOWN
RH OPPOSITE AS SHOWN

CAL G. A. L. MANUFACTURING CORP.
50 EAST 153rd STREET BRONX, N. Y. 10451

SCALE		DATE 12 - 18 - 19 74	
DWG. BY	S. C. H.	CH'K. BY	G. F. D.
NO.	REVISION	DATE	CHK.

MOML or MOHL DOOR OPERATOR
TWO SPEED or SINGLE SPEED
(SLIDING DOORS)



MOML or MOHL DOOR OPERATOR
CENTER PARTING
(PARTS LIST)

DWG. NO.	DESCRIPTION
OP -12	MOM or MOH OPERATOR LIMIT CONTROL
OP -13	MOM or MOH OPERATOR RESISTOR & TERMINAL BOX
OP -20	INTERMEDIATE PULLEY & BEARING BLOCK
OP -21	MOM or MOH DRIVE PULLEY & BEARING BLOCK
OP -22	"L" DRIVE ARM ASS'Y
OP -23	MOTOR MOUNTING BASE
CHD-3a4	DOOR DRIVE ARM SUPPORT
SW-C-1	"G" GATE SWITCH
MOTOR	1/4 HP 220V DC SHUNT WOUND 1140 RPM (MOM)
	1/2 HP 220V DC SHUNT WOUND 1140 RPM (MOH)

* SLOW DOOR BRACKET & LINK
REQUIRED ON 2SP/CP ONLY

NOTE: WHEN ORDERING, REFER TO
DWG. NO., FOR PARTS REQUIRED.

G. A. L. MANUFACTURING CORP.
50 EAST 151st STREET BRONX, N.Y. 10451

MOML or MOHL DOOR OPERATOR
CENTER PARTING

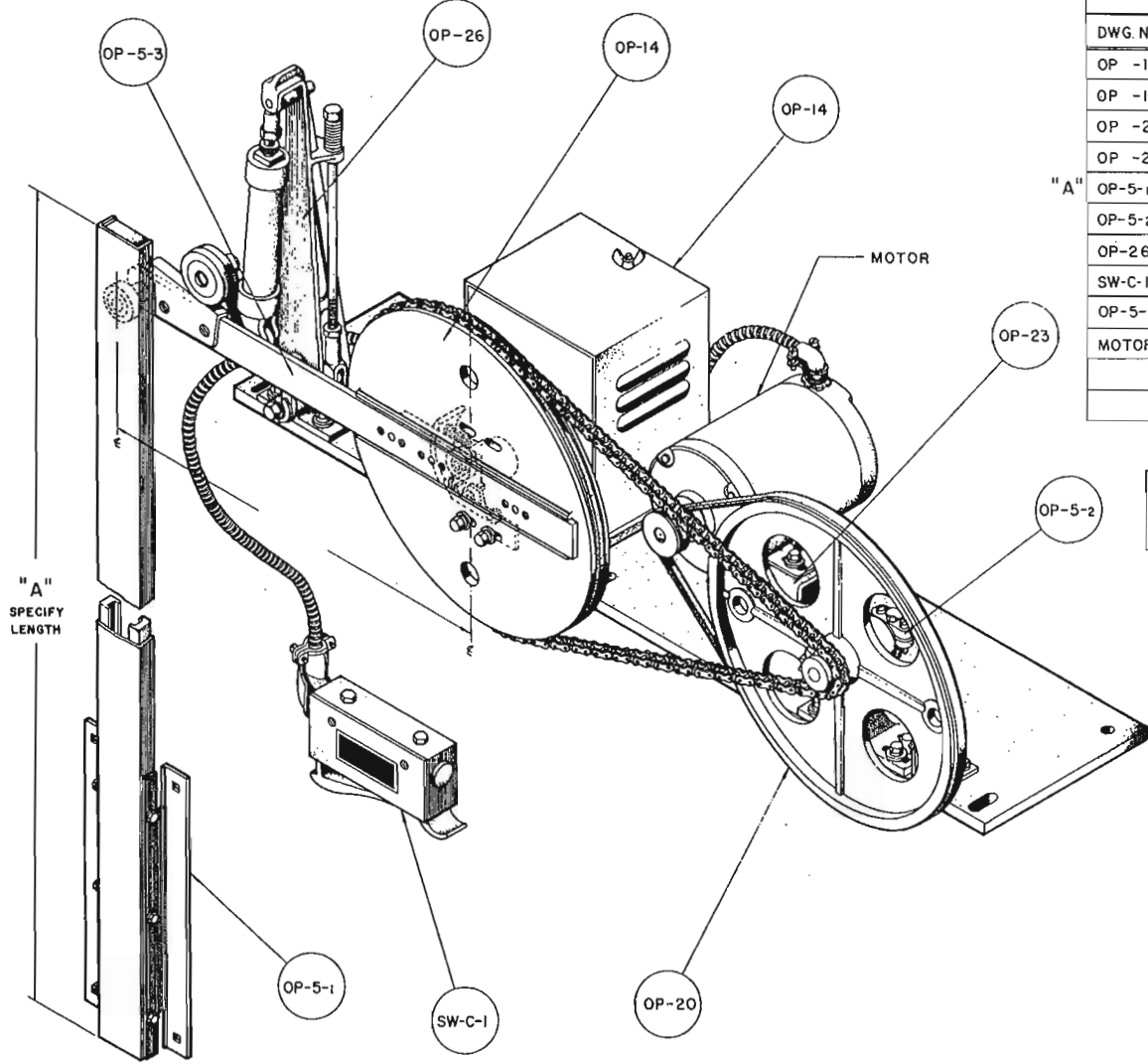
SCALE DATE 12 - 19 - 1974

DWG. BY S. C. H. OP - 4

NO. REVISION DATE CHK CHK BY G. F. D.

**MOA DOOR OPERATOR
TWO SPEED or SINGLE SPEED
SLIDING DOORS (PARTS LIST)**

DWG. NO.	DESCRIPTION
OP -14	MOA OPERATOR LIMIT CONTROL
OP -14	MOA DRIVE PULLEY
OP -20	INTERMEDIATE PULLEY & BEARING BLOCK
OP -23	MOTOR MOUNTING BASE
"A" OP-5-1	AC OPERATOR DRIVE SHOE (SPECIFY LENGTH OF CHANNEL "A")
OP-5-2	FRICTION BRAKE
OP-26	AC OPERATOR OIL CHECK & STAND (OIL CHECK & OC 501)
SW-C-1	"G" GATE SWITCH
OP-5-3	AC OPERATOR CRANK ARM (ADVISE DOOR OPEN WIDTH)
MOTOR	16 oz./FT. 220V AC 60 CYCLE 3 PHASE 600 R.P.M.



NOTE : WHEN ORDERING, REFER TO SPECIFIC DWG. NO., FOR PARTS REQUIRED.

DISCONTINUED
(PARTS AVAILABLE)



**MOA DOOR OPERATOR
TWO SPEED or SINGLE SPEED
(SLIDING DOORS)**

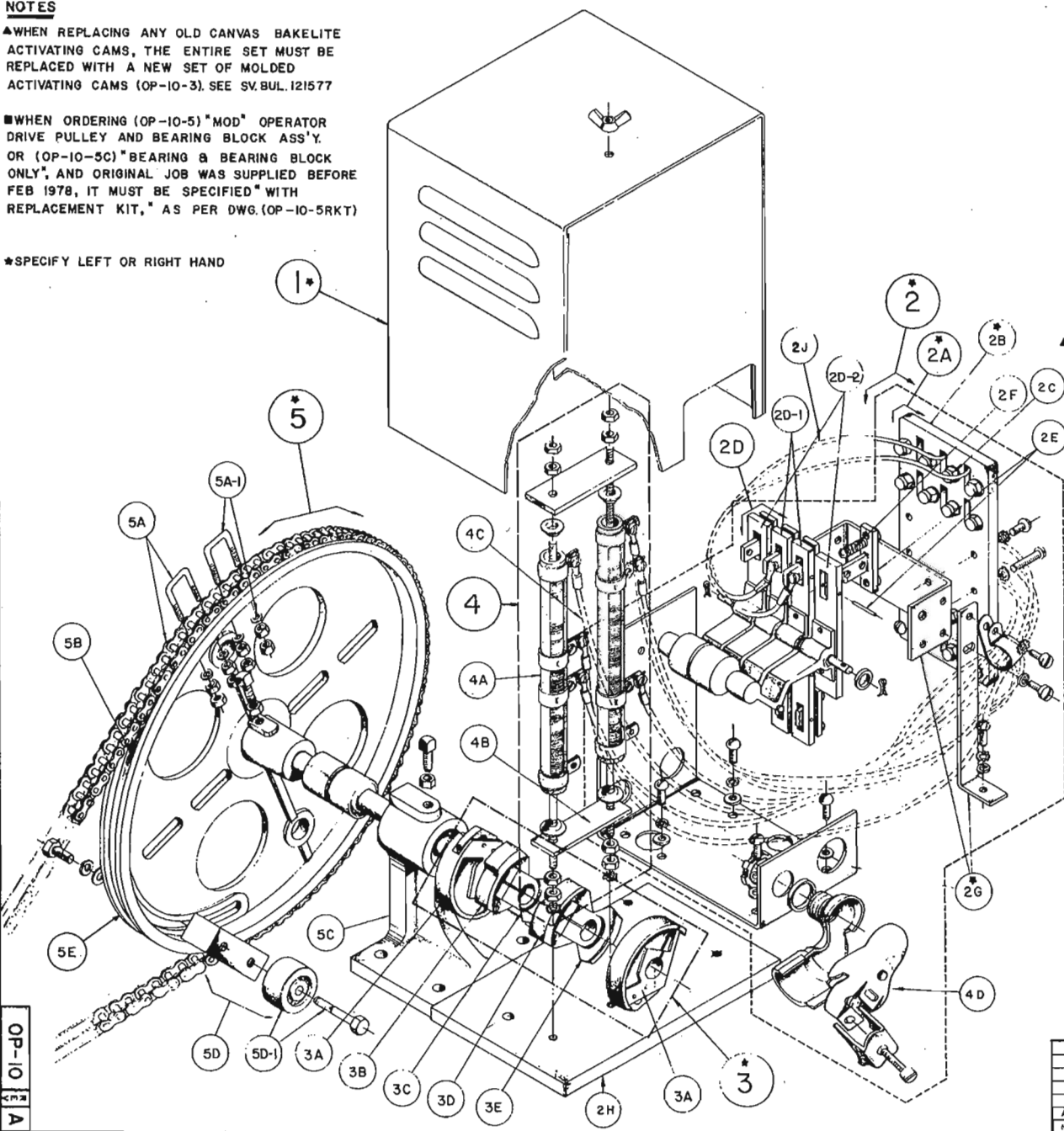
SCALE		DATE 12-19-1974	
DNG BY S C H		OP-5	
NO	REVISION		
		CHK BY G F D	

NOTES

▲WHEN REPLACING ANY OLD CANVAS BAKELITE ACTIVATING CAMS, THE ENTIRE SET MUST BE REPLACED WITH A NEW SET OF MOLDED ACTIVATING CAMS (OP-10-3). SEE SV.BUL.121577

■WHEN ORDERING (OP-10-5) "MOD" OPERATOR DRIVE PULLEY AND BEARING BLOCK ASS'Y. OR (OP-10-5C) "BEARING & BEARING BLOCK ONLY", AND ORIGINAL JOB WAS SUPPLIED BEFORE FEB 1978, IT MUST BE SPECIFIED "WITH REPLACEMENT KIT," AS PER DWG.(OP-10-5RKT)

*SPECIFY LEFT OR RIGHT HAND



**"MOD" OPERATOR LIMIT CONTROL
(PARTS LIST)**

PART NO.	DESCRIPTION
*OP-10	"MOD" OPERATOR LIMIT CONTROL ASS'Y.
*OP-10-1	"MOD" LIMIT BOX COVER & WING NUT
*OP-10-2	"MOD" LIMIT SWITCH (INCLUDES PARTS 2A TO 2J)
*OP-10-2A	CONTACT BASE ASS'Y. (INCLUDES PARTS 2B TO 2C)
*OP-10-2B	CONTACT BASE ONLY
OP-10-2C	3/8" SILVER CONTACT SCREWS 3/4" LG.(12-REQ'D)
OP-10-2D	SET OF BRIDGING CAM ASS'YS.(2)"L" & (2)"S"
OP-10-2D-1	LARGE BRIDGING CAM ASS'Y. "L" (2-REQ'D)
OP-10-2D-2	SMALL BRIDGING CAM ASS'Y. "S" (2-REQ'D)
OP-10-2E	BRIDGING CONTACT WITH PIN
OP-10-2F	BRIDGING CONTACT SPRING
*OP-10-2G	"MOD" LIMIT SWITCH MOUNTING BK'T. ASS'Y.
OP-10-2H	"MOD" LIMIT SWITCH MOUNTING PLATE
OP-10-2J	JUMPER WIRES (2) REQ'D.
▲▲OP-10-3	SET OF ACTIVATING CAMS (INCLUDES 3A TO 3E)
▲OP-10-3A	#1 LIMIT CAM - LEFT HAND OPERATOR
▲OP-10-3A	#2 LIMIT CAM - RIGHT HAND OPERATOR
▲OP-10-3B	#5 CLOSE-1ST AND 2ND SLOW DOWN CAM
▲OP-10-3C	#4 CLOSE-SLOW START CAM
▲OP-10-3D	#6 OPEN-1ST AND 2ND SLOW DOWN CAM
▲OP-10-3E	#3 OPEN-SLOW START CAM
OP-10-4	RESISTOR ASS'Y (INCLUDES PARTS 4A TO 4C)
OP-10-4A	300 OHM 100WATT RESISTOR W/ BANDS
OP-10-4B	RESISTOR MOUNTING BRACKETS (INCLUDES ASBESTOS SEPARATOR AND RODS)
OP-10-4C	RESISTOR LEAD WIRES (7-REQ'D)
OP-10-4D	ANGLE CONNECTOR
*OP-10-5	"MOD" OPERATOR DRIVE PULLEY AND BEARING BLOCK ASS'Y (INCLUDES PARTS 5A TO 5E)
OP-10-5A	CHAIN AND "U" BOLTS
OP-10-5A-1	"U" BOLTS, NUTS & LOCKWASHERS (2-REQ'D)
OP-10-5B	RUBBER SUPPRESSOR WITH RIVETS
OP-10-5C	BEARING WITH BEARING BLOCK
OP-10-5D	"MOD" STOP ROLLER AND BRACKET
OP-10-5D-1	ROLLER & BOLT
OP-10-5E	"MOD" OPERATOR DRIVE PULLEY ONLY

LEFT HAND SHOWN
RIGHT HAND OPPOSITE



**"MOD" OPERATOR
LIMIT CONTROL
(PARTS LIST)**

SCALE		DATE JUNE 10 1974	
A	UP DATED	P-83	DWG. BY S. C. H.
NO.	REVISION	DATE	CHK. BY G. F. D.
			OP - 10 16 A

OP-10
16
A



September 1, 1987

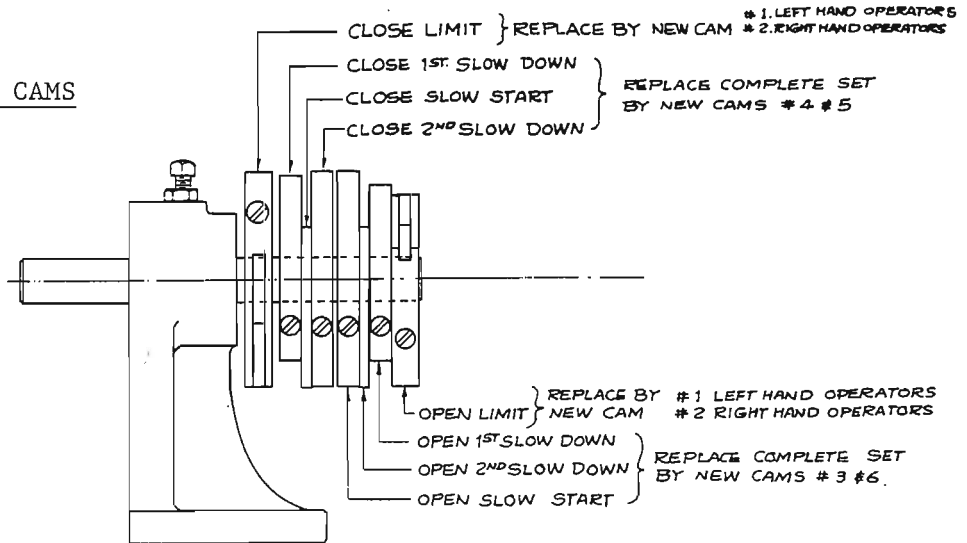
MODL - Door Operator Activating Cam

TO WHOM IT MAY CONCERN:

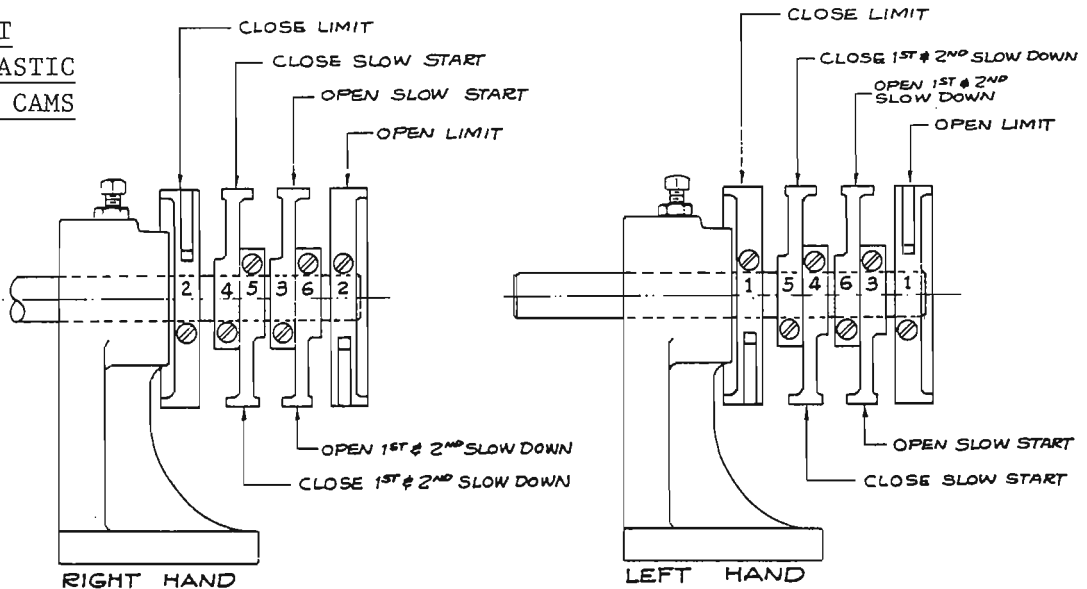
The eight (8) bakelite activating cams used in our power door operator limit control, have been replaced by six (6) moulded plastic activating cams. The shape of the cams have been slightly altered.

When ordering replacement, you would have to advise us the hand of the installation, center-parting installations are always left hand.

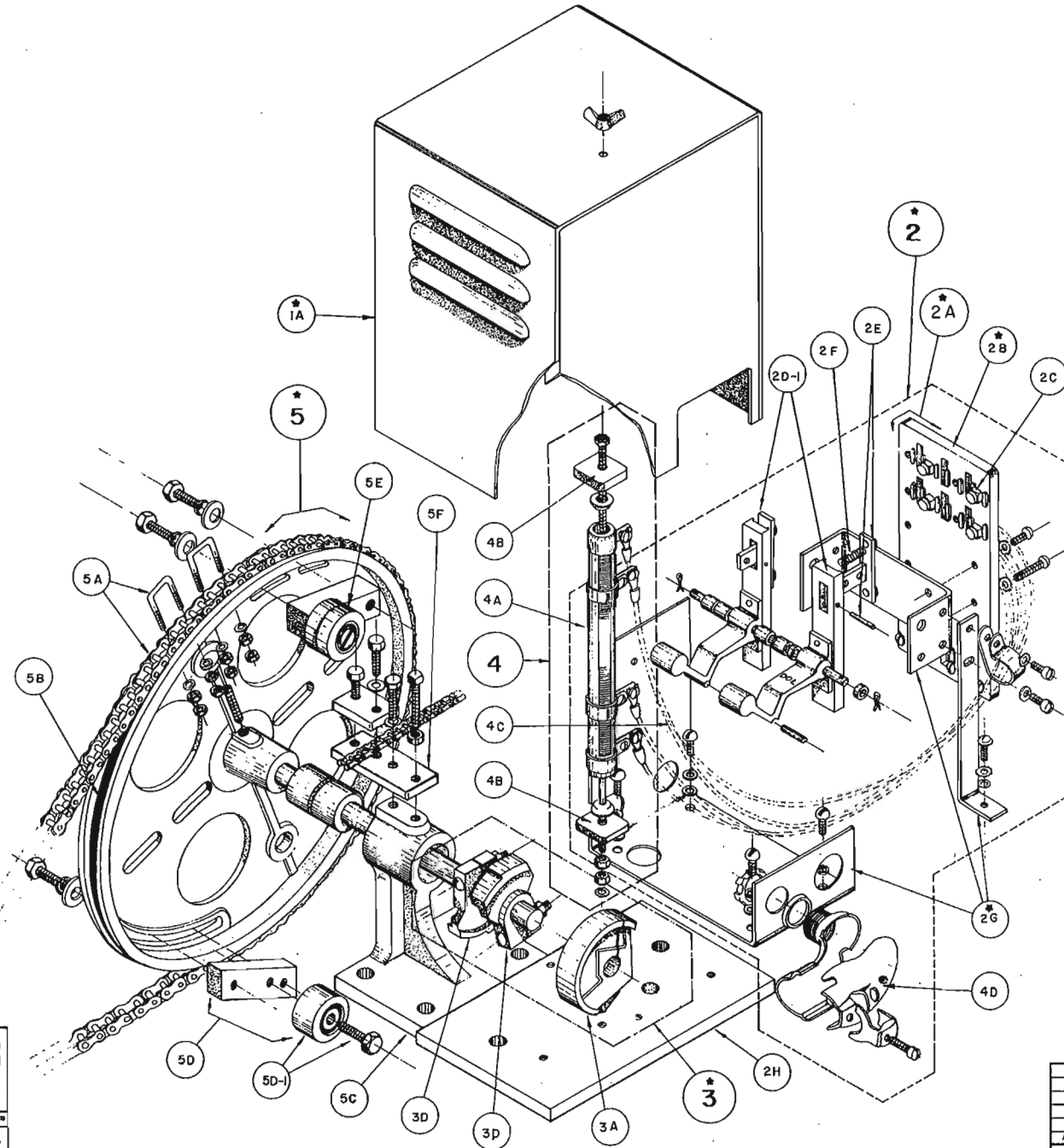
BAKELITE ACTIVATING CAMS



REPLACEMENT MOULDED PLASTIC ACTIVATING CAMS



NOTE: When installing replacement cams it is important to follow diagram as to which cam number and which side of cam goes in first.



"MODP" OPERATOR LIMIT CONTROL
(PARTS LIST)

PART NO.	DESCRIPTION
* OP-11	"MODP" OPERATOR LIMIT CONTROL ASS'Y.
* OP-11-1A	"MODP" LIMIT BOX COVER & WING NUT
* OP-11-2	"MODP" LIMIT SWITCH (INCLUDES PARTS 2B TO 2H)
* OP-11-2A	CONTACT BASE ASS'Y (INCLUDES PARTS 2B & 2C)
* OP-11-2B	CONTACT BASE ONLY
OP-11-2C	3/8" SILVER CONTACT SCREWS 3/4" LG (6) REQ'D
OP-11-2D	SMALL BRIDGING CAM ASS'Y (2) REQ'D "S"
OP-11-2E	BRIDGING CONTACT WITH PIN
OP-11-2F	BRIDGING CONTACT SPRING
* OP-11-2G	"MODP" LIMIT SWITCH MTG. BKT. ASS'Y.
OP-11-2H	"MOD" LIMIT SWITCH MOUNTING PLATE
▲ OP-11-3	SET OF ACTIVATING CAMS (3) (INCLUDES 3A & 3D)
OP-11-3A	CLOSE CAM # 1
OP-11-3D	SLOW DOWN CAM # 3
OP-11-3D	OPEN LIMIT CAM # 3
OP-11-4	RESISTOR ASS'Y (INCLUDES PARTS 4A TO 4C)
OP-11-4A	500 OHM 1000 WATT RESISTOR W/BANDS
OP-11-4B	RESISTOR MOUNTING BRACKETS (INCLUDES ASBESTOS SEPARATOR & ROD)
OP-11-4C	RESISTOR LEAD WIRES (4) REQ'D
OP-11-4D	ANGLE CONNECTOR
* OP-11-5	"MODP" OPERATOR DRIVE PULLEY AND BEARING BLOCK ASS'Y (INCLUDES 5A TO 5D)
OP-11-5A	CHAIN AND "U" BOLTS
OP-11-5B	RUBBER SUPPRESSOR
OP-11-5C	BEARING AND BEARING BLOCK ONLY
OP-11-5D	MODL STOP RUBBER AND BRACKET
OP-11-5E	ROLLER AND BOLT
OP-11-5E	RETIRING CAM PICK UP ROLLER ASS'Y
OP-11-5F	RETIRING CAM ANCHOR CLAMP

NOTES:

- * SPECIFY LEFT OR RIGHT HAND
- WHEN ORDERING (OP-11-5) "MODP" OPERATOR DRIVE PULLEY AND BEARING BLOCK ASS'Y. OR (OP-11-5C) "BEARING AND BEARING BLOCK ONLY", AND ORIGINAL JOB WAS SUPPLIED BEFORE FEB. 1978, IT MUST BE SPECIFIED "WITH REPLACEMENT KIT", AS PER DWG. (OP-10-5RKT)
- ▲ WHEN REPLACING ANY OLD CANVAS BAKELITE ACTIVATING CAMS, THE ENTIRE SET MUST BE REPLACED WITH A NEW SET OF MOLDED ACTIVATING CAMS (OP-11-3).

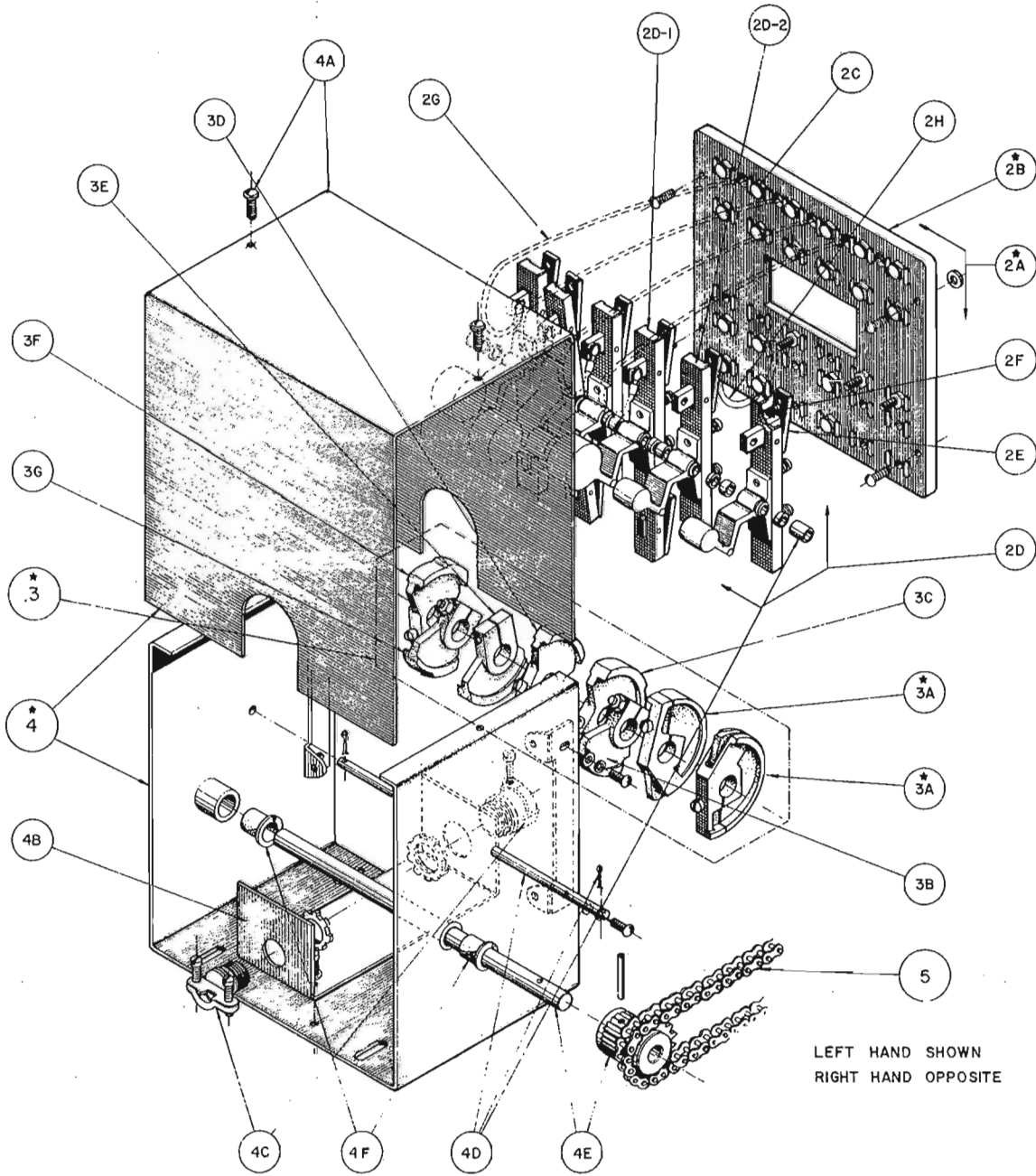
LEFT HAND SHOWN
RIGHT HAND OPPOSITE



"MODP" OPERATOR LIMIT CONTROL
(PARTS LIST)

SCALE HALF		DATE 11-8-83	
A	UP DATED	B-1-B	DWG. BY WSP/ez
NO.	REVISION	DATE	CHK. BY
			OP-11

OP-11
REV
A



LEFT HAND SHOWN
RIGHT HAND OPPOSITE

"MOM" AND "MOH"
OPERATOR LIMIT CONTROL
(PART LIST)

DESCRIPTION	
PART NO	DESCRIPTION
* OP-12	MOM & MOH OPERATOR LIMIT CONTROL ASS'Y
* OP-12-2A	"MOM" & "MOH" MOLDED CONTACT BASE ASS'Y (INCLUDES PART # 2B & 2C)(SPECIFY L.H. or R.H.)
* OP-12-2B	CONTACT BASE ONLY (SPECIFY L.H. or R.H.)
OP-12-2C	3/16 SILVER CONTACT SCREWS, 3/4" LG. (18 REQ'D)
OP-12-2D	SET OF BRIDGING CAM ASS'Y (INCLUDES 3 LARGES-3 SMALL)
OP-12-2D-1	LARGE BRIDGING CAM ASS'Y "L" (3-REQ'D)
OP-12-2D-2	SMALL BRIDGING CAM ASS'Y "S" (3-REQ'D)
OP-12-2E	BRIDGING CONTACT WITH PIN
OP-12-2F	BRIDGING CONTACT SPRING
OP-12-2G	DOUBLE JUMPER WIRES (2-REQ'D)
OP-12-2H	SINGLE JUMPER WIRE (1-REQ'D)
* OP-12-3	SET OF ACTIVATING CAMS (INCLUDES ITEM 3A TO 3G)
	LH R H
* OP-12-3A	CLOSE LIMIT CAM #1 #2
* OP-12-3A	OPEN LIMIT CAM #1 #2
* OP-12-3B	SLOW START CAM #4 #4
* OP-12-3C	1st & 2nd SLOW DOWN CAM #7 CLOSING #7
* OP-12-3D	3rd & 4th SLOW DOWN CAM #4 CYCLE #3
* OP-12-3E	1st & 2nd SLOW DOWN CAM #7M OPENING #7M
* OP-12-3F	FINISH SLOW DOWN CAM #3 #4
* OP-12-3G	SLOW START CAM #3 CYCLE #4
* OP-12-4	MOM & MOH LIMIT BOX & COVER (INCLUDES PARTS 4A TO 4F)
OP-12-4A	COVER & SCREWS
OP-12-4B	BX CONNECTOR MOUNTING BRACKET
OP-12-4C	BX CONNECTOR (2-REQ'D)
OP-12-4D	BRIDGING CAM SHAFT & COTTER PINS & SPACERS
OP-12-4E	ACTIVATING CAM SHAFT & SPROCKET
OP-12-4F	NYLINER BUSHING # 10L, 10F (2 REQ'D)
OP-12-5	ACTIVATING CAM DRIVE CHAIN

NOTES:

▲ WHEN REPLACING ANY OLD CANVAS BAKELITE ACTIVATING CAMS, THE ENTIRE SET MUST BE REPLACED WITH A NEW SET OF MOLDED ACTIVATING CAMS (OP-12-3). SEE SV.BUL. 121577-A

* SPECIFY LEFT OR RIGHT HAND



MOM AND MOH
OPERATOR LIMIT CONTROL

SCALE		DATE		JUNE 29 1974	
A	UP DATED	D-1	BY	S	C
NO.	REVISION	DATE	CHK.	CHK.	BY

OP-12 1/8 A

OP-12 1/8 A



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ESTABLISHED 1927

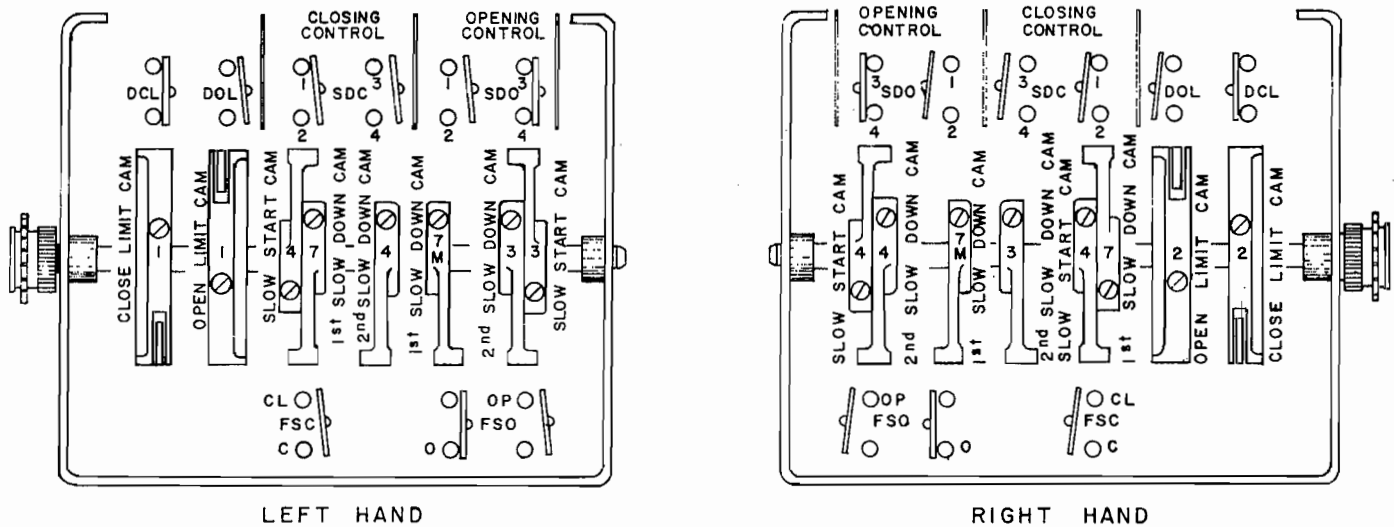
December 15, 1977

MOML - DOOR OPERATOR ACTIVATING CAM

TO WHOM IT MAY CONCERN:

The eleven (11) bakelite activating cams used in our power door operator limit control, have been replaced by eight (8) moulded plastic activating cams. The shape of the cams has been slightly altered.

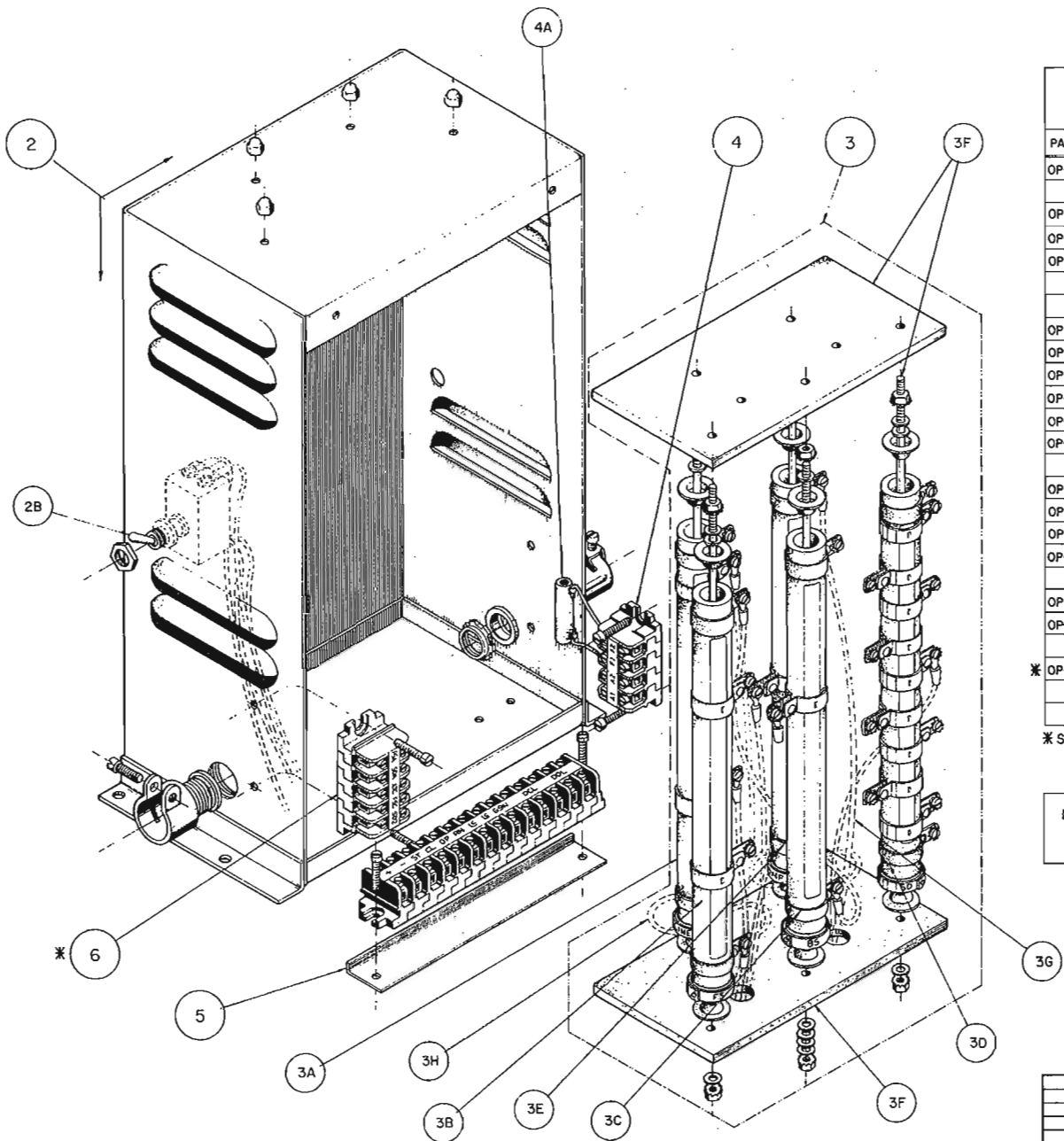
When ordering replacement, you would have to advise us the hand of the installation. Center-parting installations are always left hand.



NOTE: When installing replacement cams, it is important to follow diagram as to which cam number and which side of cam goes on first. By reversing the position of the cam (side of cam that goes in first), the following substitutions can be made:

- Cam #3 for Cam #4 and vice-versa
- Cam #1 for Cam #2 and vice-versa

At times G.A.L. makes such substitutions in original assembly.



MOM & MOH
OPERATOR RESISTOR AND TERMINAL BOX
(PART LIST)

PART NO.	DESCRIPTION	
OP-13-1	MOM & MOH OPERATOR RESISTOR AND TERMINAL BOX	
OP-13-2	RESISTOR BOX & COVER	
OP-13-2A	COVER AND SCREWS (NOT SHOWN)	
OP-13-2B	ON-OFF TOGGLE SWITCH	
OP-13-3	RESISTOR ASSY(
OP-13-3A	"L" LINE RESISTOR TUBE 2 BANDS	200 OHM 200 WATT
OP-13-3B	"F" FAST SPEED RESISTOR 2 BANDS	
OP-13-3C	"BS" BASIC SPEED RESISTOR 1 BAND	
OP-13-3D	"SD" SLOW DOWN RESISTOR 9 BANDS	750 OHM 200 WATT
OP-13-3E	"DMF" DOOR MOTOR FIELD RESISTOR	
		1 BAND
OP-13-3F	RESISTOR MTG. BRACKETS (INCLUDES ASBESTOS SEPARATOR & RODS)	
OP-13-3G	RESISTOR LEADS	
OP-13-3H	JUMPER WIRES	
OP-13-4	OPERATOR MOTOR TERMINAL BLOCK AND RESISTOR	
OP-13-4A	6K OHM 20WATT RESISTOR	
OP-13-5	CONTROLLER TERMINAL BLOCK (14) AND MOUNTING PLATE	
* OP-13-6	ATTENDANT TERMINAL BLOCK (5)	

* SUPPLIED ONLY WHEN "ATTENDANT FEATURE" REQ'D.

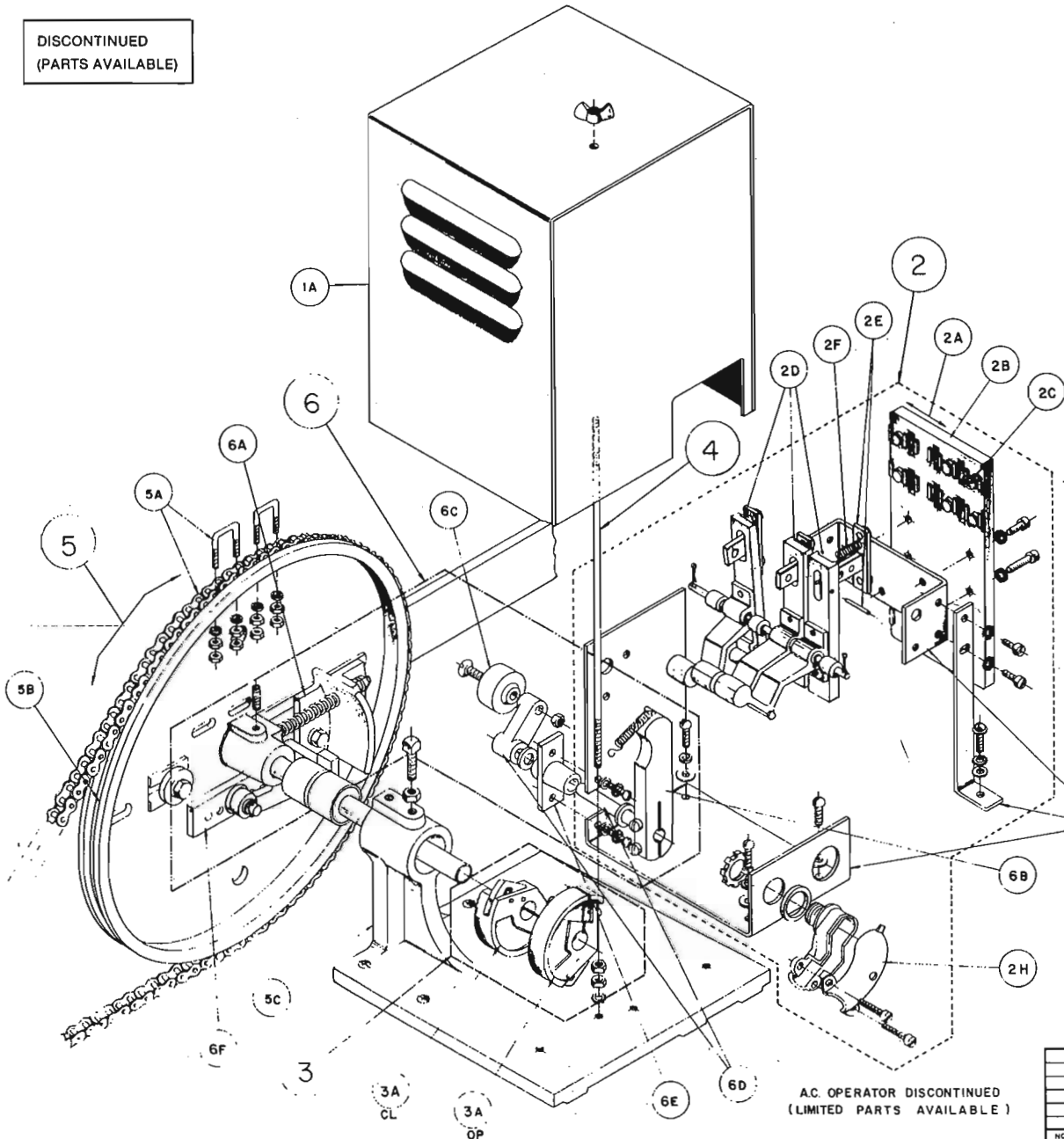
NOTE: WHEN ORDERING SPECIFY THIS DRAWING NUMBER, PART NUMBER AND DESCRIPTION.



MOM AND MOH OPERATOR
RESISTOR AND TERMINAL BOX

SCALE FULL		DATE JUNE 28 '64	
I MIN. SALES	7-78	DWG. BY S C H	
NO. REVISION	DATE	CHK. BY G F P.	OP-13

DISCONTINUED
(PARTS AVAILABLE)



MOA OPERATOR LIMIT CONTROL
(PARTS LIST)

PART NO	DESCRIPTION
OP-14-1	MOA OPERATOR LIMIT CONTROL (PER DWG)
OP-14-1A	MOA LIMIT BOX COVER & WING NUT
OP-14-2	MOA LIMIT SWITCH (INCLUDES PARTS 2A TO 2H)
OP-14-2A	STATIONARY CONTACT BASE (INCLUDES PARTS 2B AND 2C)
OP-14-2B	BASE ONLY
OP-14-2C	3/8 SILVER CONTACT SCREWS (6)
OP-14-2D	SMALL BRIDGING CAM ASSY (3) SET "S"
OP-14-2E	BRIDGING CONTACT WITH PIN
OP-14-2F	BRIDGING CONTACT SPRING
OP-14-2G	MOA LIMIT SWITCH MTG. BKTS SET
OP-14-2H	ANGLE CONNECTOR
OP-14-3	(1) SET ACTIVATING CAM (2) (INCLUDES 2A AND 2B)
OP-14-3A	DOOR OPEN CAM "I"
OP-14-3A	DOOR CLOSE CAM "I"
OP-14-4	COVER MOUNTING ROD
OP-14-5	MOA DRIVE PULLEY (INCLUDES PARTS 5A TO 5B)
OP-14-6A	CHAIN AND U BOLTS
OP-14-6B	RUBBER SUPPRESSOR
OP-14-6C	BEARING WITH BEARING BLOCK
OP-14-6	REVERSE OPEN ASSY (INCLUDES PARTS 6A TO 6F)
OP-14-6A	REVERSE OPEN SLIDE CAM
OP-14-6B	RO REVERSE CAM AND SPRING
OP-14-6C	REVERSE OPEN ROLLER AND BOLT
OP-14-6D	REVERSE OPEN ROLLER ARM AND SHAFT
OP-14-6E	REVERSE OPEN ROLLER ARM SHAFT BEARING
OP-14-6F	OPERATOR REVERSING MECH- LOCK

NOTE: WHEN ORDERING SPECIFY THIS
DRAWING NUMBER, PART NUMBER, AND HAND.

LEFT HAND SHOWN.
RIGHT HAND OPPOSITE AS SHOWN.

AC OPERATOR DISCONTINUED
(LIMITED PARTS AVAILABLE)

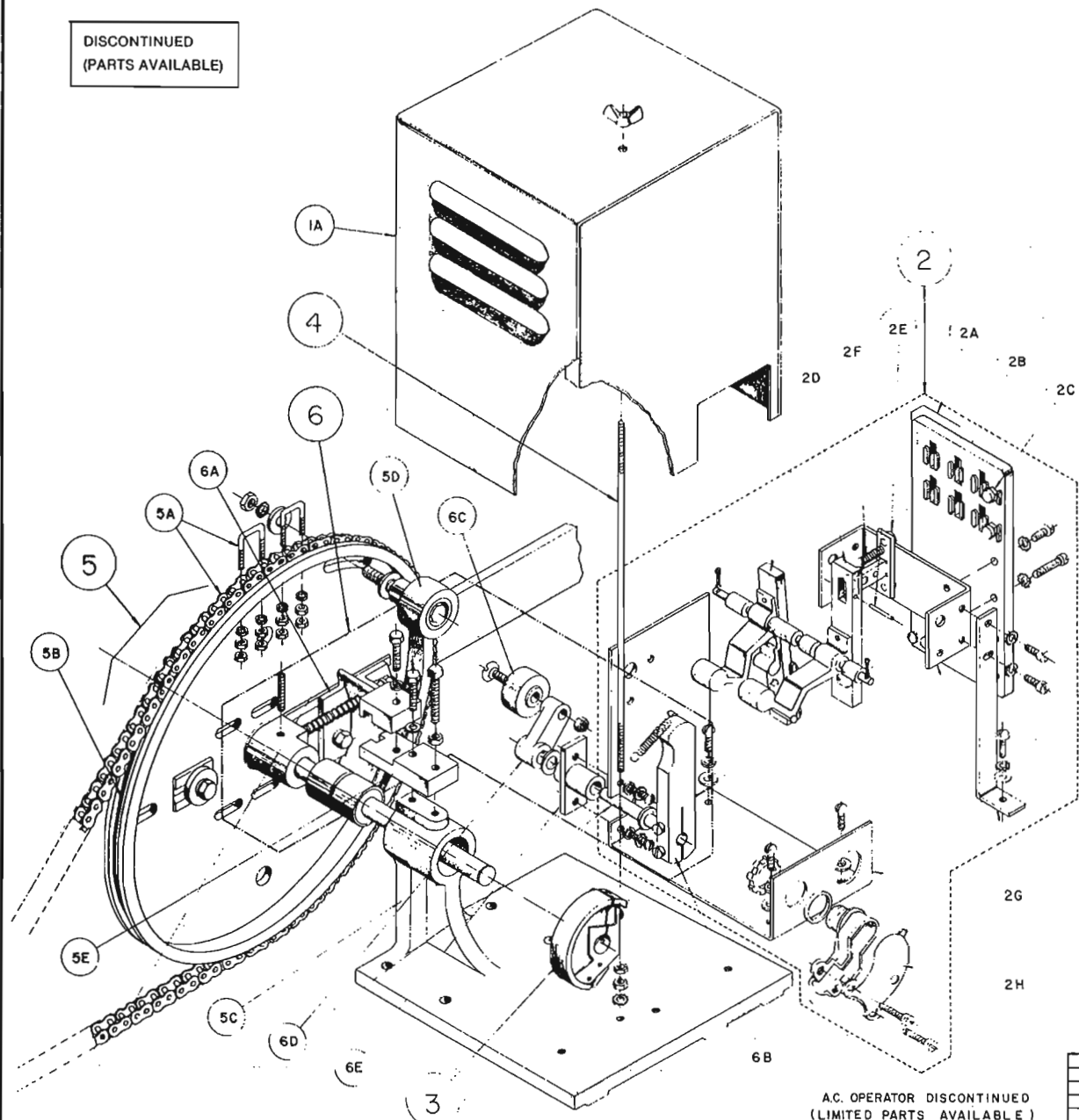


MOA OPERATOR
LIMIT CONTROL
(PARTS LIST)

SCALE	FULL	DATE	JUNE 17 1974
DWG BY	S C H.		
NO	REVISION	DATE	CHK BY

OP-14

DISCONTINUED
(PARTS AVAILABLE)



MOAP OPERATOR LIMIT CONTROL
(PARTS LIST)

PART NO.	DESCRIPTION
OP-15-1	MOAP OPERATOR LIMIT CONTROL (PER DWG)
OP-15-1A	MOAP LIMIT BOX COVER & WING NUT
OP-15-2	MOAP LIMIT SWITCH (INCLUDES PARTS 2A TO 2F)
OP-15-2A	STATIONARY CONTACT BASE (INCLUDES PARTS 2B AND 2C)
OP-15-2B	BASE ONLY
OP-15-2C	3/8 SILVER CONTACT SCREWS (4)
OP-15-2D	SMALL BRIDGING CAM ASSY (2) SET (1-N.C.L. 1-N.O.)
OP-15-2E	BRIDGING CONTACT WITH PIN
OP-15-2F	BRIDGING CONTACT SPRING
OP-15-2G	MOAP LIMIT SWITCH MTG. BKTS SET
OP-15-2H	ANGLE CONNECTOR
OP-15-3	ACTIVATING DOOR OPEN CAM " 1 "
OP-15-4	COVER MOUNTING ROD
OP-15-5	MOAP DRIVE PULLEY (INCLUDES PARTS 5A TO 5E)
OP-15-5A	CHAIN AND U BOLTS
OP-15-5B	RUBBER SUPPRESSOR
OP-15-5C	BEARING WITH BEARING BLOCK
OP-15-5D	RETRIVING CAM PICK-UP ROLLER AND BOLT
OP-15-5E	RETRIVING CAM ANCHOR CLAMP
OP-15-6	REVERSE OPEN ASSY (INCLUDES PARTS 6A TO 6E)
OP-15-6A	REVERSE OPEN SLIDE CAM
OP-15-6B	RO REVERSE CAM AND SPRING
OP-15-6C	REVERSE OPEN ROLLER AND BOLT
OP-15-6D	REVERSE OPEN ROLLER ARM AND SHAFT
OP-15-6E	REVERSE OPEN ROLLER ARM SHAFT BEARING

NOTE: WHEN ORDERING SPECIFY THIS
DRAWING NUMBER, PART NUMBER, AND HAND.

LEFT HAND SHOWN
RIGHT HAND OPPOSITE AS SHOWN

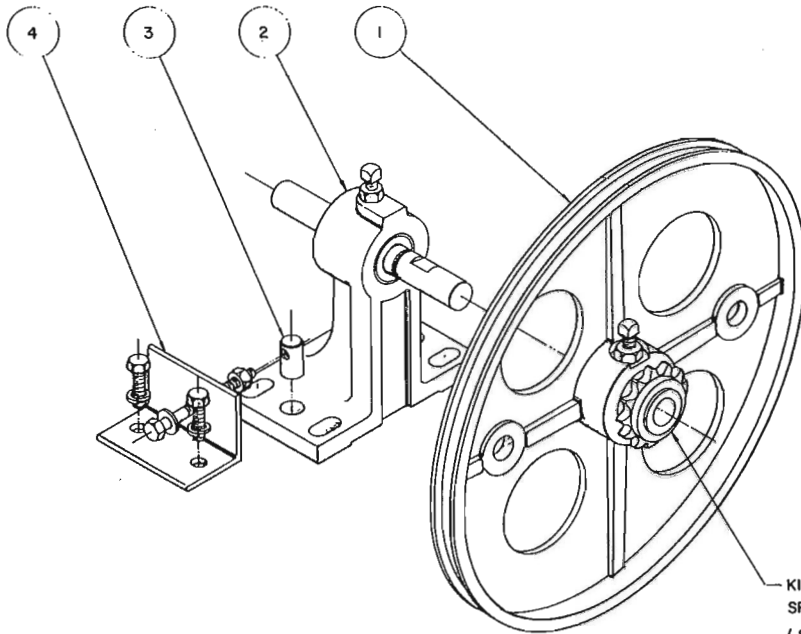
A.C. OPERATOR DISCONTINUED
(LIMITED PARTS AVAILABLE)

GAL B. A. L. MANUFACTURING CORP.
30 EAST 153rd STREET BRONX, N. Y. 10451

MOAP OPERATOR
LIMIT CONTROL
(PARTS LIST)

SCALE	FULL	DATE	JUNE	18	1974
NO	REVISION	DATE	CHK	CHK	BY

OP-15



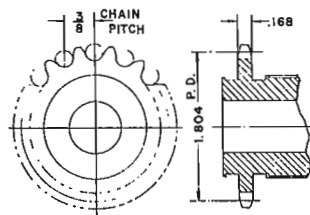
INTERMEDIATE PULLEY
(PARTS LIST)

PART NO	DESCRIPTION	
OP-20-1	INTERMEDIATE PULLEY	
OP-20-2	INTERMEDIATE BEARING BLOCK	
OP-20-3	ADJUSTING STUD	
OP-20-4	ADJUSTING ANGLE & BOLT	

NOTE : WHEN ORDERING SPECIFY THIS DRAWING NUMBER, PART NUMBER & DESCRIPTION.

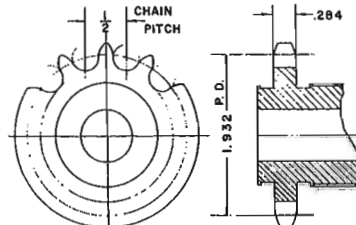
CHAIN NO. 35 SPROCKET

CHAIN NO. 40 SPROCKET



TEETH : 15

USED ON MOD-MOA OPERATOR
(SLOW SPEED AC OR DC)



TEETH : 12

USED ON MOM-MOH OPERATOR
(MEDIUM OR HIGH SPEED
OR MOD HEAVY DUTY OPERATOR)

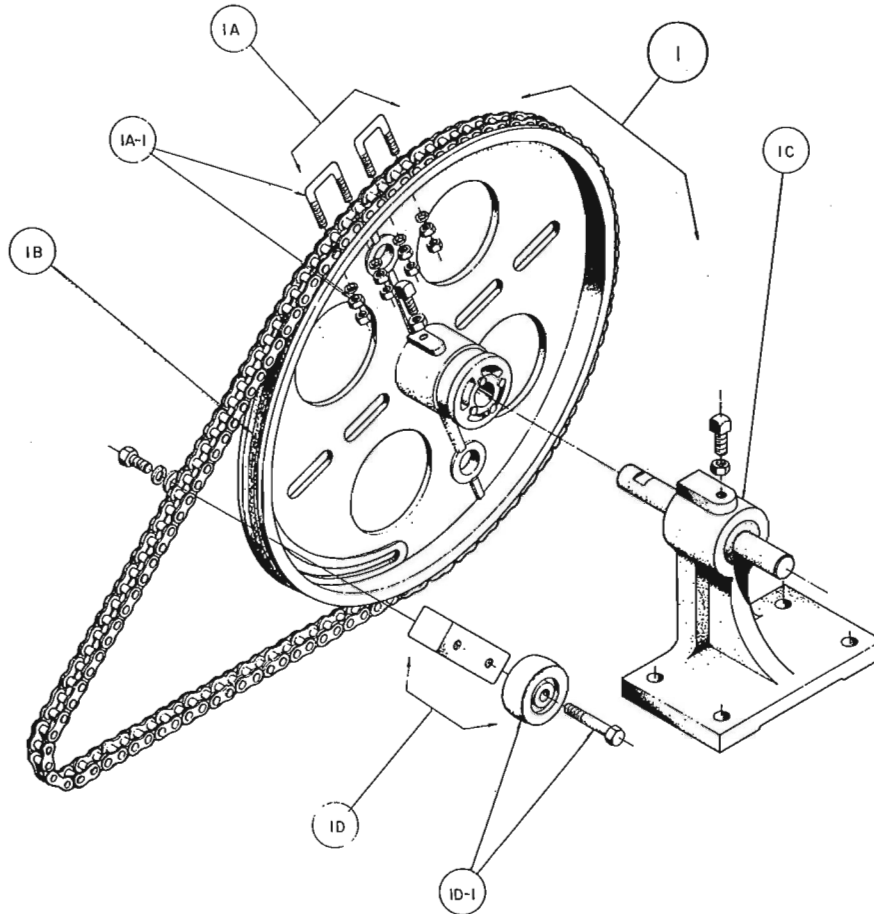


INTERMEDIATE PULLEY
& BEARING BLOCK ASS'Y.

				SCALE	DATE 9-28-74
1	MWR SALES	7-78	DWG. BY S. C. H.		
NO.	REVISION	DATE	CHK. BY G. F. D.		OP-20

MOM & MOH DRIVE PULLEY
& BEARING BLOCK ASS'Y
(PARTS LIST)

PART NO.	DESCRIPTION	
OP-2I-1	MOM & MOH DRIVE PULLEY (INCLUDES PARTS IA TO ID)	
OP-2I-1A	CHAIN & U BOLTS	
OP-2I-1A-1	U BOLTS, NUTS & LOCKWASHERS (2)	
OP-2I-1B	RUBBER SUPPRESSOR	
OP-2I-1C	BEARING WITH BEARING BLOCK	
OP-2I-1D	STOP ROLLER & BRACKET	
OP-2I-1D-1	ROLLER & BOLT	



NOTE : WHEN ORDERING SPECIFY THIS DWG. NO.,
PART NUMBER, DESCRIPTION AND HAND.

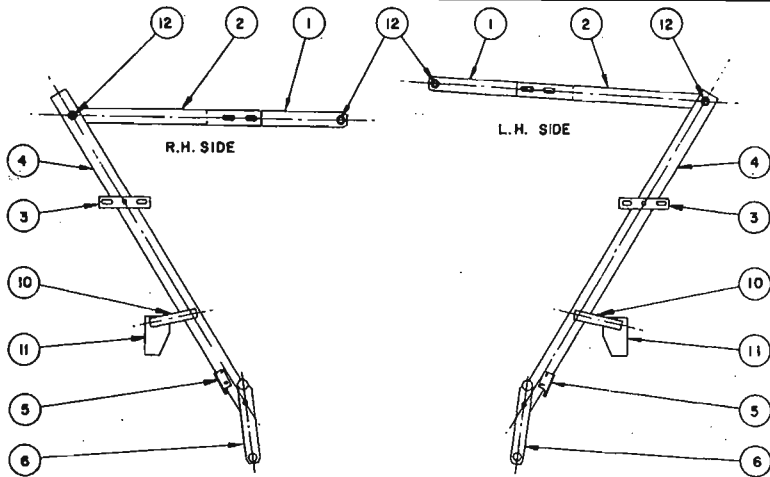
L. H. SHOWN
R. H. OPPOSITE AS SHOWN

GAL G. A. L. MANUFACTURING CORP.
50 EAST 152ND STREET
BRONX, N. Y. 10451

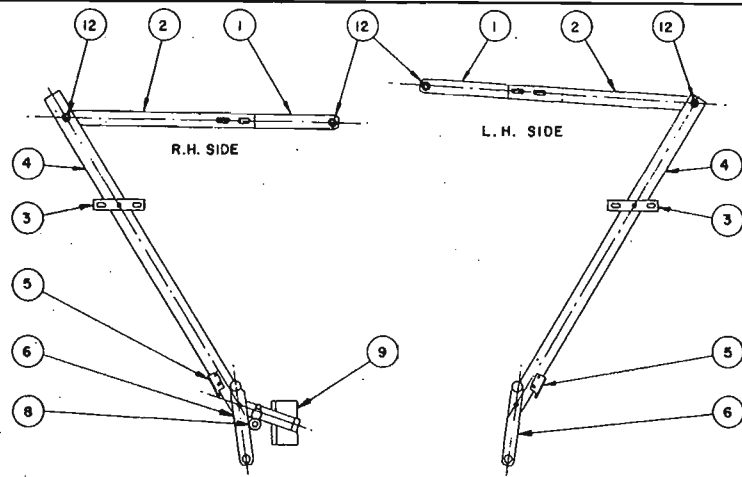
MOM & MOH DRIVE PULLEY
& BEARING BLOCK ASS'Y
(PARTS LIST)

SCALE		DATE 12 - 18 - 1974	
1	MIN. SALES	7-78	DWG BY S. C. H
ND	REVISION	DATE	CHK BY G. F. D

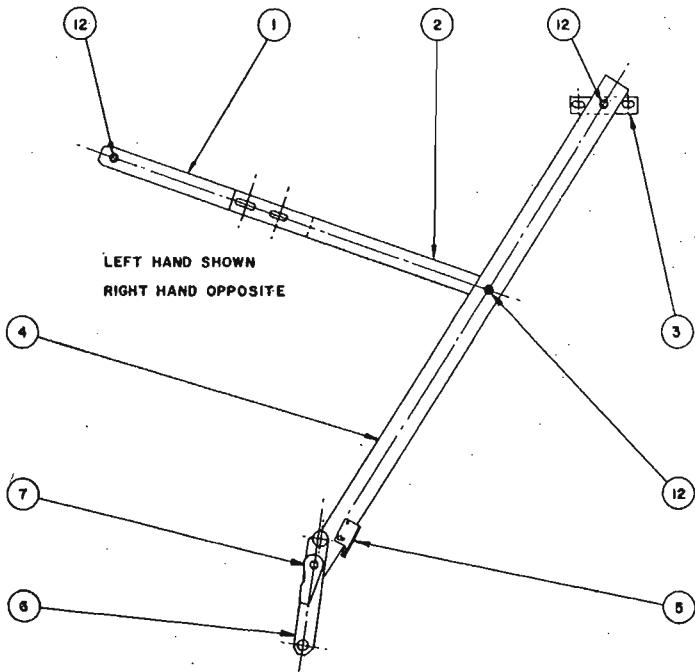
OP - 21



TYPE "L" 2/SP-C/P OPERATOR DOOR DRIVE ARM ASS'Y SET
(SEE DATA TABLE IX)



TYPE "L" C/P OPERATOR DOOR DRIVE ARM ASS'Y SET
(SEE DATA TABLE III)



TYPE "L" S/S OR 2/SP OPERATOR DOOR DRIVE ARM ASS'Y
(SEE DATA TABLE I OR II)

HOW TO ORDER

- A.) IF COMPLETE DRIVE ARM ASS'YS ARE BEING ORDERED, SPECIFY AS INDICATED UNDER COMPLETE ASS'Y DETAIL ALONG WITH THE FOLLOWING:
- CLEAR OPENING WIDTH
 - HAND OF OPENING (IF S/S OR 2/SP)
 - ORIGINAL CONTRACTOR & G.A.L. JOB NO. IF AVAILABLE
- B.) IF INDIVIDUAL PARTS ARE REQ'D SPECIFY AS FOLLOWS:
- QTY, ITEM NO., TYPE, DESCRIPTION, AND HAND (RIGHT OR LEFT)
- IF LINKS OR ARMS ARE BEING ORDERED, THE FOLLOWING MUST ALSO BE INCLUDED:
- CLEAR OPENING WIDTH
 - CENTER LINE DIMENSION OF LINK OR ARM (SEE TABLES I, II, III, OR IX ATTACHED)
- C.) IF ANY LINKS OR ARMS HAVE A CENTER LINE DIMENSION DIFFERENT FROM THE TABLES, YOU MUST INDICATE THE ORIGINAL CONTRACTOR AND G.A.L. JOB NO.

OP-22-12	8179	BEARING		
OP-22-11	"L" 2/SP C/P	OPERATOR SLOW DOOR BRACKET RIGHT OR LEFT HAND		
OP-22-10	"L" 2/SP C/P	OPERATOR SLOW DOOR LINK		
OP-22-9	"L" C/P	OPERATOR DOOR BRACKET AND LINK ASS'Y RIGHT HAND		
OP-22-8	"L"	OPERATOR SAFETY EDGE CLOSE ROLLER ASS'Y		
OP-22-7	"L"	OPERATOR SAFETY EDGE OPEN HOLD FRICTION ASS'Y RIGHT OR LEFT HAND		
OP-22-6	"L"	OPERATOR SAFETY EDGE ACTUATING LINK ASS'Y RIGHT OR LEFT HAND		
OP-22-5	"L"	OPERATOR SAFETY EDGE OPEN CAM R.O.R.L. HAND		
OP-22-4	"L"	OPERATOR ALUMINUM DOOR DRIVE ARM		
OP-22-3	"L"	OPERATOR DRIVE ARM CROSS PLATE		
OP-22-2	"L"	OPERATOR CONNECTING LINK (LOWER SECTION)		
OP-22-1	"L"	OPERATOR CONNECTING LINK (UPPER TAPPED SECTION)		
PART NO.	TYPE	DESCRIPTION	LIST PRICE	

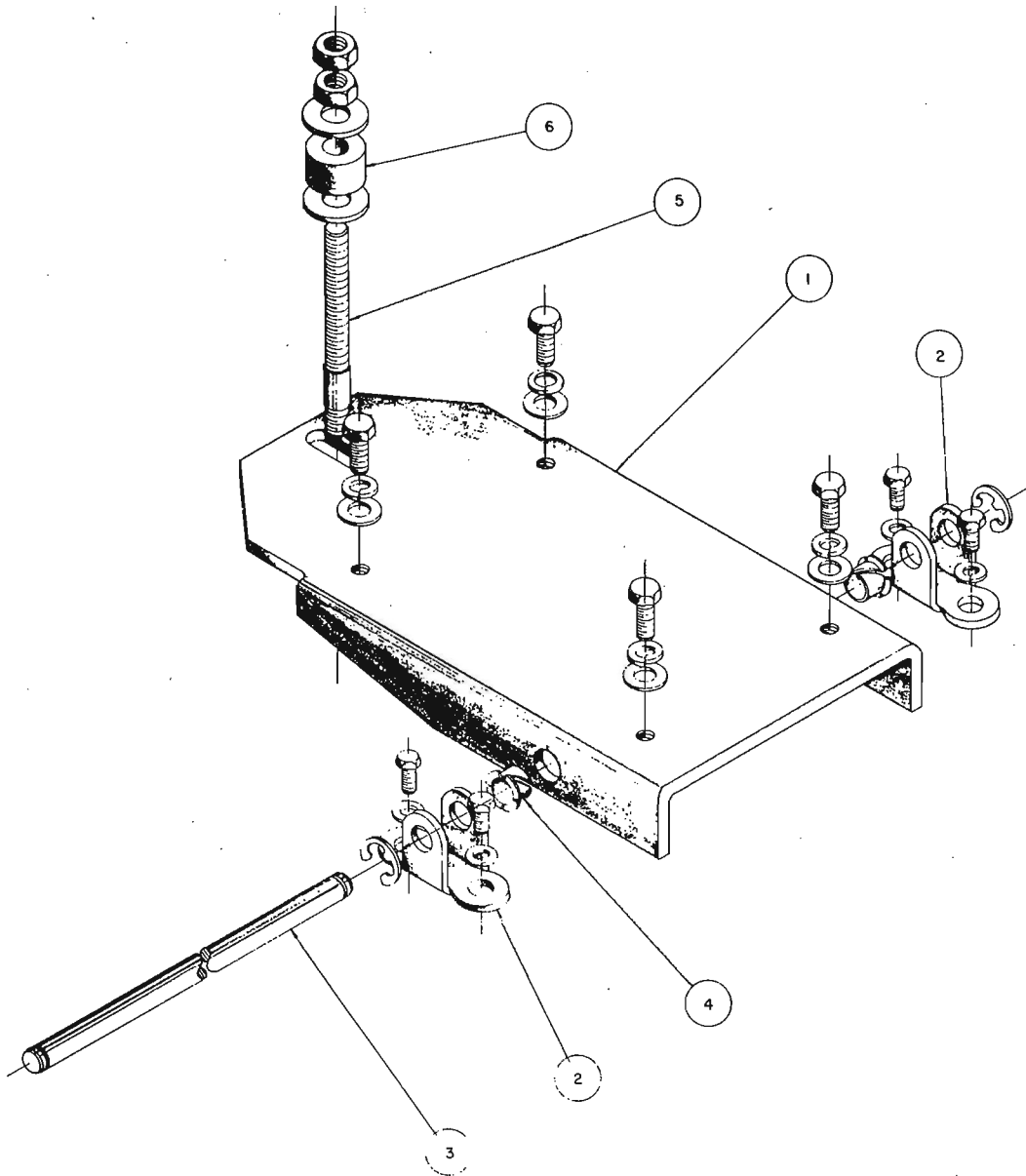
PARTS LIST



G. A. L. MANUFACTURING CORP.
90 EAST 183rd STREET
BRONX, N. Y. 10461

TYPE "L" OPERATOR DOOR DRIVE ARM ASS'YS

SCALE	DATE 10-1-75
DWG. BY S. ADLER	OP-22
NO. REVISION	DATE DRG. CHK BY T. C. O.



OPERATOR MOTOR MOUNTING BASE
(PARTS LIST)

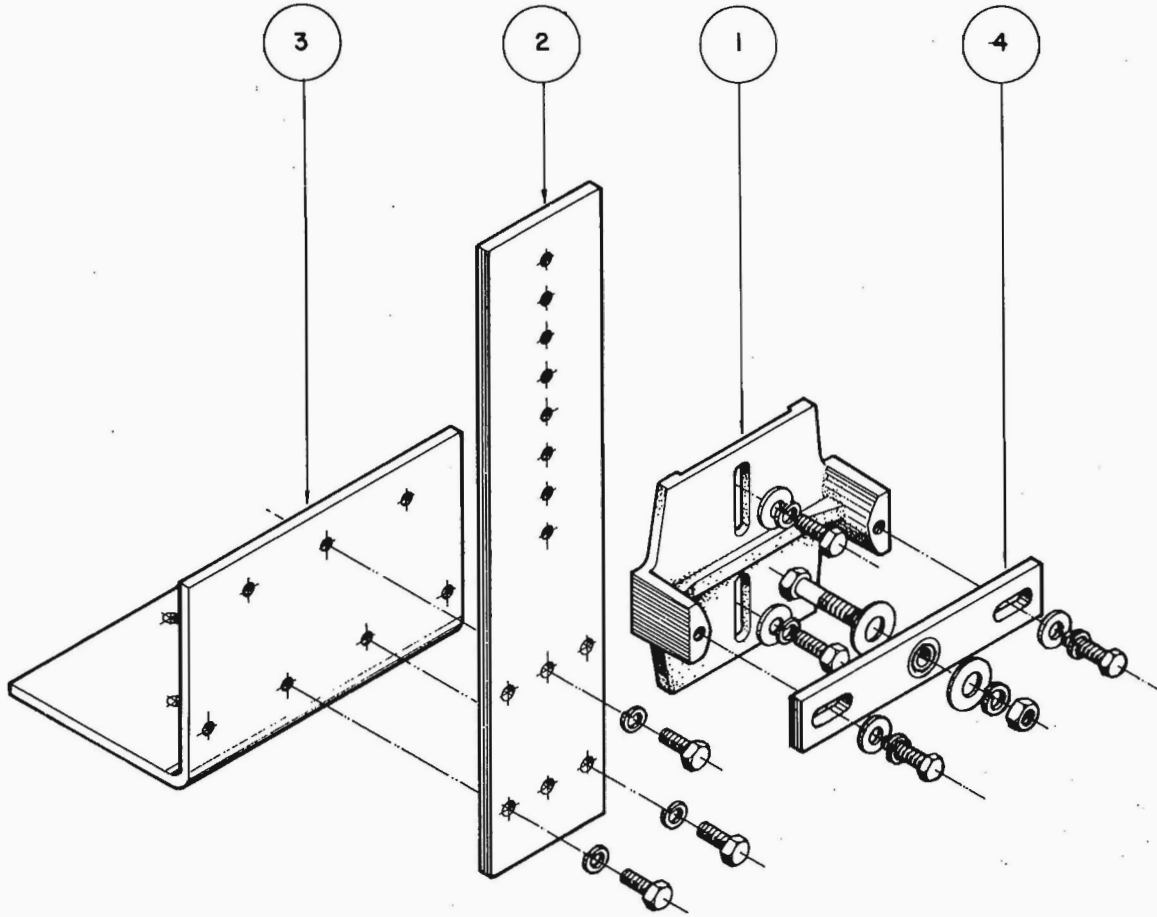
PART NO.	DESCRIPTION	
OP-23-1	MOTOR MOUNTING BASE	
OP-23-2	MOTOR MOUNTING BASE HINGE PIN (2) REQ'D	
OP-23-3	MOTOR MOUNTING HINGE PIN WITH "E" RING	
OP-23-4	NYLINER BUSHING (2) REQ'D	
OP-23-5	MOTOR MOUNTING BASE GUIDE STUD WITH NUTS AND WASHERS	
OP-23-6	MOTOR MOUNTING BASE GUIDE BUMPER	

NOTE : WHEN ORDERING SPECIFY THIS DRAWING NUMBER,
PART NUMBER AND DESCRIPTION.



OPERATOR MOTOR MOUNTING BASE

SCALE FULL		DATE 11 - 13 - 1974	
1	MIN. SALES	7-78	ENG BY S C H
NO.	REVISION	DATE	CHK BY G F D
			OP - 23

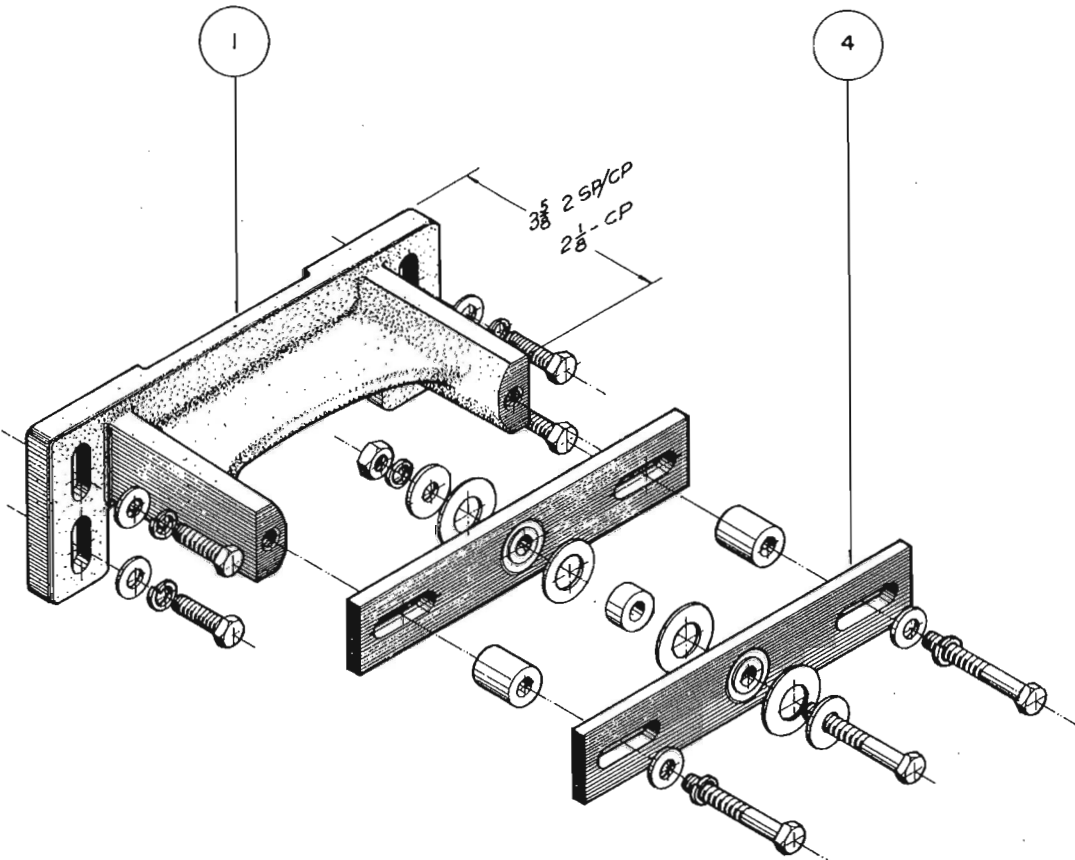


**DOOR DRIVE ARM SUPPORT
TWO SPEED or SINGLE SPEED
(PARTS LIST)**

ITEM N°	DESCRIPTION	
1	DRIVE ARM SUPPORT BRACKET 2/SP or S/SP	
2	ADJUSTABLE MOUNTING PLATE	
3	MOUNTING ANGLE	
4	OPERATOR DRIVE ARM CROSS PLATE	


	G. A. L. MANUFACTURING CORP.	
	50 EAST 153rd STREET BRONX, N. Y. 10451	

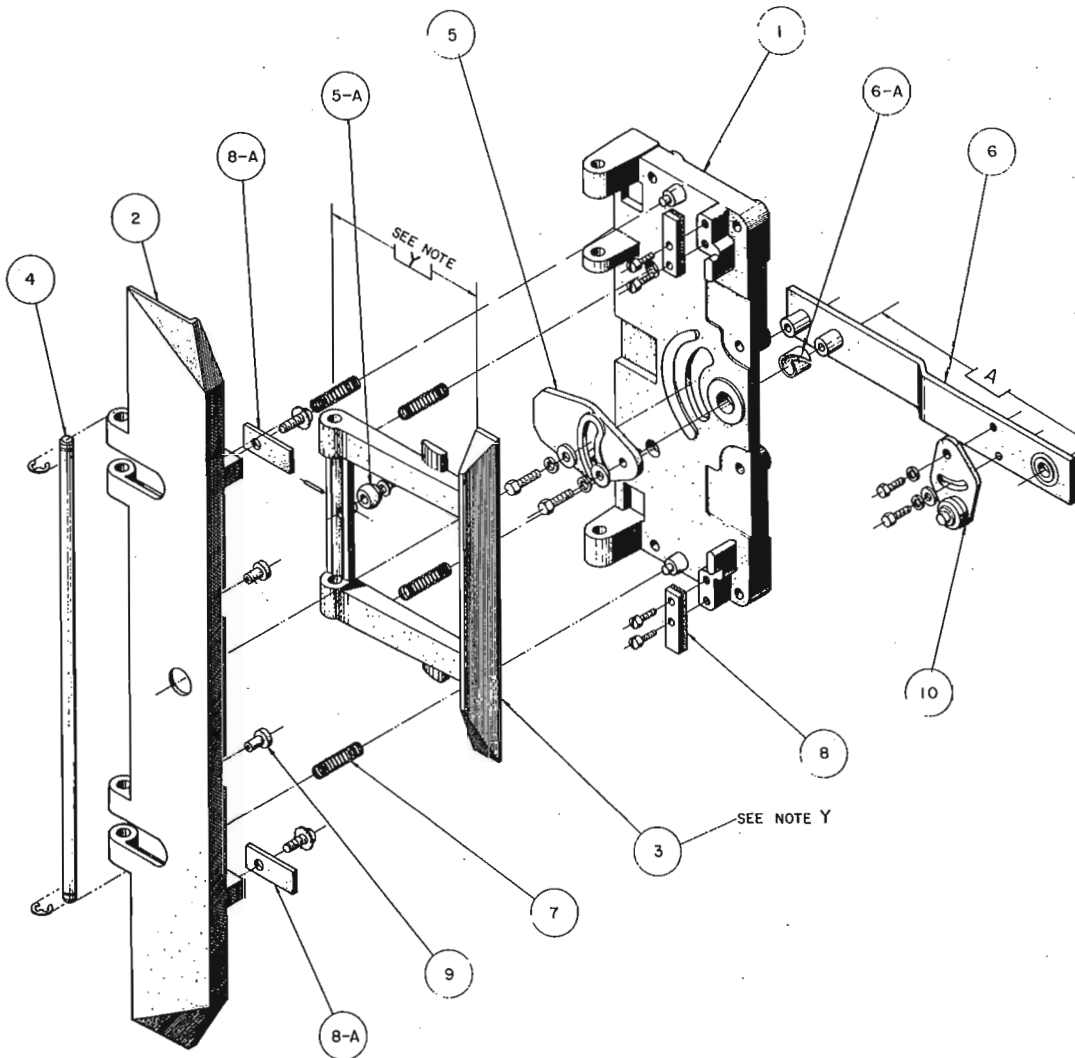
DOOR DRIVE ARM SUPPORT TWO SPEED OR SINGLE SPEED (PARTS LIST)		
SCALE		DATE 7-1-83
DWG. BY W6Pérez		OP - 24
NO.	REVISION	
DATE	CHK.	CHK. BY G.F. DOLAN



**DOOR DRIVE ARM SUPPORT
FOR 2SP/CP OR C/P DOORS
(PARTS LIST)**

ITEM No.	DESCRIPTION
1	DRIVE ARM SUPPORT BRACKET (ADVISE OVERALL HEIGHT)
4	OPERATOR DRIVE ARM CROSS PLATE

			B. A. L. MANUFACTURING CORP. 50 EAST 153rd STREET BRONX, N. Y. 10451		
DOOR DRIVE ARM SUPPORT FOR 2SP/CP OR C/P DOORS (PARTS LIST)					
SCALE				DATE 7-5-83	
DWG. BY WSP/raz					
CHK. BY G. F. DOLAN					
NO.	REVISION	DATE	CHK.	OP - 25	



TYPE "L" CAR DOOR CLUTCH (PARTS LIST)

PART NO.	DESCRIPTION	
OP-30-1	TYPE "L" CLUTCH BASE	
OP-30-2	TYPE "L" CLUTCH DOOR OPEN VANE	
OP-30-3	TYPE "L" CLUTCH RETRACTING VANE	
OP-30-4	HINGE PIN	
OP-30-5	TYPE "L" CLUTCH ACTUATING CAM	
OP-30-5A	ACTUATING ROLLER	
* OP-30-6	ACTUATING LINK (ADVISE "A" DIMENSION)	
OP-30-6A	NYLINER BUSHING (2955-A NYLINER)	
OP-30-7	SPRING (4 REQ'D)	
OP-30-8	DOOR OPEN VANE BASE STOP BUMPER	
OP-30-8A	DOOR OPEN VANE STOP	
OP-30-9	MO KEEPER STEM BUMPER	
OP-30-10	RA SAFETY EDGE DOOR CLOSE CAM	

NOTE: WHEN ORDERING SPECIFY THIS DRAWING NUMBER,
PART NUMBER, DESCRIPTION AND HAND.

LEFT HAND SHOWN
RIGHT HAND OPPOSITE AS SHOWN

NOTE "Y"
L CLUTCH : 4 $\frac{3}{4}$
LW CLUTCH : 6 $\frac{1}{4}$



G. A. L. MANUFACTURING CORP.
50 EAST 151st STREET
BRONX, N.Y. 10451

TYPE "L" & "LW" CAR DOOR CLUTCH

SCALE 3/8" DATE 11-13-1974

DESIGNED BY S C H
CHECKED BY G F D

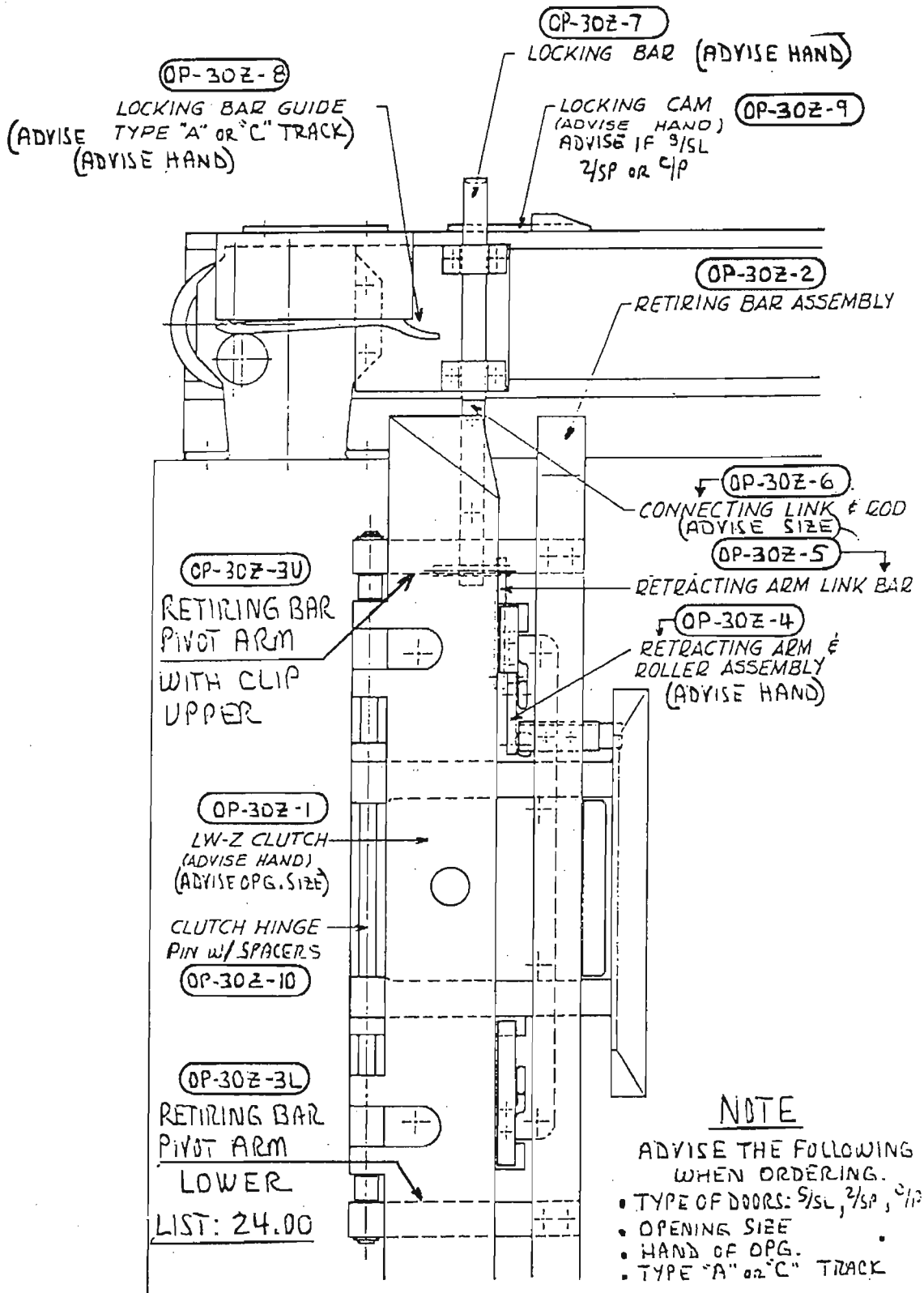
OP-30

NO	REVISION	DATE	CHK

U.S. PAT.
4364454
4423799

U.K. PAT.
2085840
2112352

CAN. PAT.
1168464
1179702



NO.	REVISION	DATE	CHK.

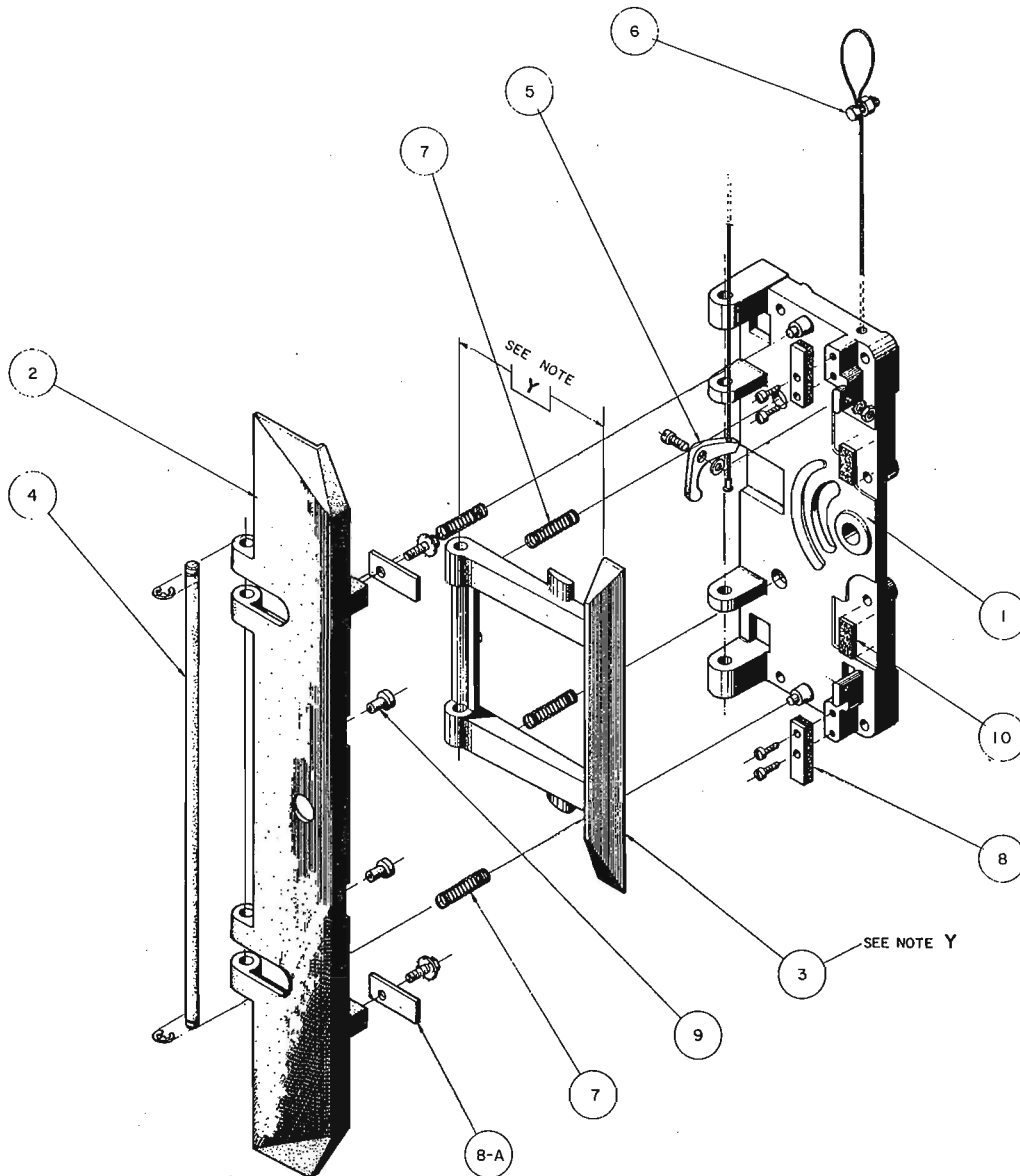


G. A. L. MANUFACTURING CORP.
50 EAST 153rd STREET BRONX, N. Y. 10451

SCALE NONE
DWG. BY *FD*
CHK. BY *L.L.*
DATE 10/23/81

(TYPE "A" HANGER)
CAR DOOR ZONE LOCKING DEVICE
ASSEMBLY

OP-30Z



TYPE "C" CAR DOOR CLUTCH
(PARTS LIST)

PART No.	DESCRIPTION	
OP-31-1	TYPE "C" CLUTCH BASE	
OP-31-2	TYPE "C" CLUTCH DOOR OPEN VANE	
OP-31-3	TYPE "C" CLUTCH RETRACTING VANE	
OP-31-4	HINGE PIN	
OP-31-5	TYPE "C" CLUTCH ACTIVATING LINK	
OP-31-6	TYPE "C" CLUTCH RETRACTING CABLE	
OP-31-7	SPRING (4) REQUIRED	
OP-31-8	DOOR OPEN VANE BASE STOP BUMPER	
OP-31-8A	DOOR OPEN VANE STOP	
OP-31-9	MO KEEPER STEM BUMPER	
OP-31-10	RETRACTING VANE BUMPER	

NOTE: WHEN ORDERING SPECIFY THIS DRAWING NUMBER, PART NUMBER, DESCRIPTION AND HAND.

LEFT HAND SHOWN
RIGHT HAND OPPOSITE AS SHOWN

NOTE Y
C CLUTCH : 4 3/4
CW CLUTCH : 6 1/4

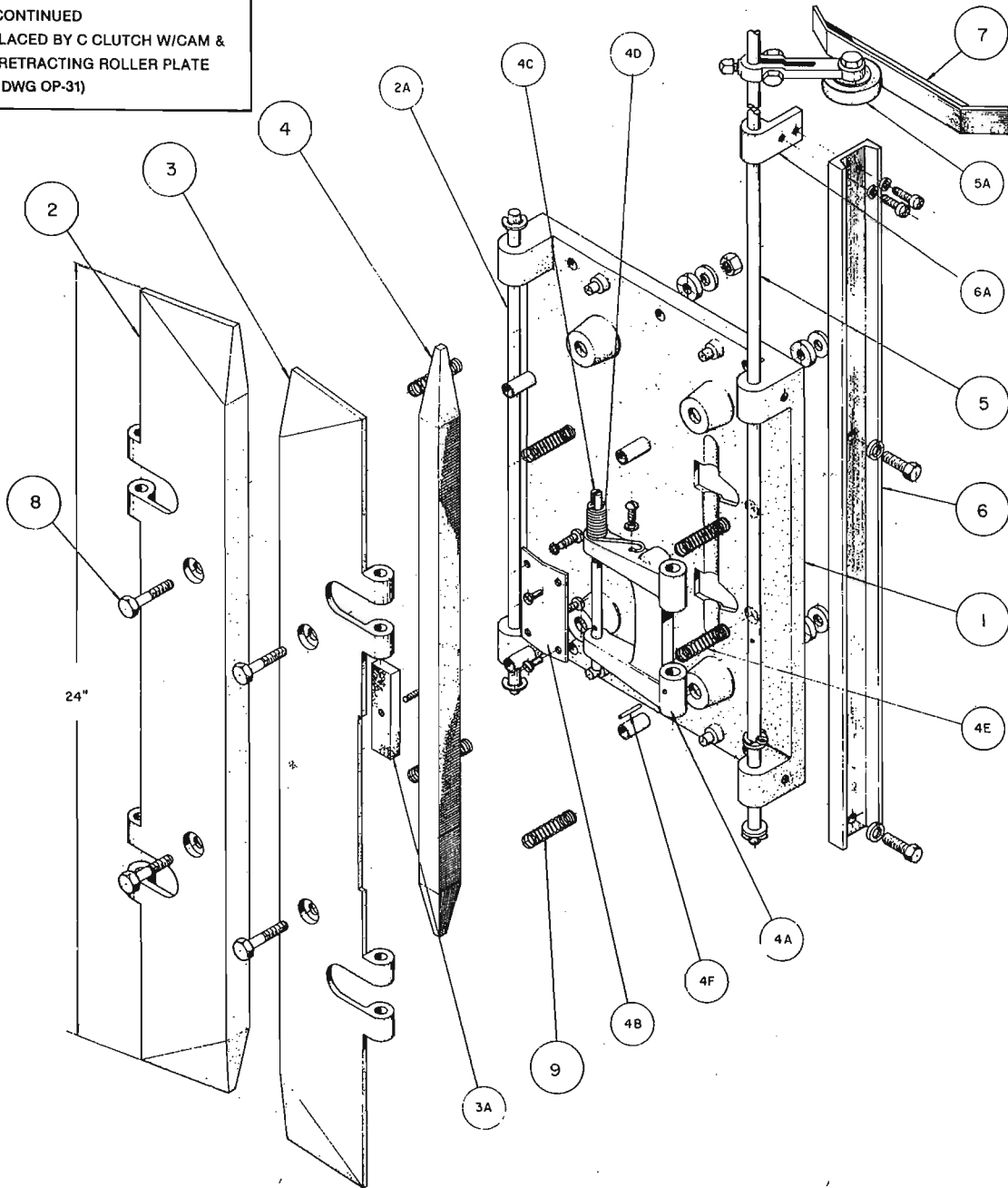


TYPE "C" & "CW"
CAR DOOR CLUTCH

SCALE 3/8"		DATE 11-13-1974	
1	MIN. SALES	7-78	DWG. BY S C H.
NO.	REVISION	DATE	CHK. BY G. F. D.

OP-31

DISCONTINUED
REPLACED BY C CLUTCH W/CAM &
S/S RETRACTING ROLLER PLATE
(SEE DWG OP-31)



TYPE "R" CAR DOOR CLUTCH
(PARTS LIST)

PART NO.	DESCRIPTION	
OP-32-1	TYPE "R" CLUTCH BASE	
OP-32-2	DOOR OPEN VANE	
OP-32-2A	DOOR OPEN VANE HINGE PIN	
OP-32-3	DOOR CLOSE VANE	
OP-32-3A	RUBBER BUMPER	
OP-32-4	RETRACTING VANE	
OP-32-4A	ACTIVATING ARM	
OP-32-4B	HINGE	
OP-32-4C	HINGE PIN	
OP-32-4D	HINGE PIN SPRING	
OP-32-4E	ACTIVATING ARM SPRING (4)REQ'D	
OP-32-4F	ROLL PIN	
OP-32-5	CLOSE VANE HINGE PIN	
OP-32-5A	"R" CLUTCH ACTUATING ROLLER ARM	
OP-32-6	SHAFT SUPPORT BRACKET	
OP-32-6A	SHAFT SUPPORT BEARING	
OP-32-7	"R" CLUTCH ACTUATING CAM	
OP-32-8	DOOR VANE ADJUSTING BOLTS (4)REQ'D	
OP-32-9	DOOR VANE SPRING (4) REQ'D	

NOTE: WHEN ORDERING SPECIFY THIS DRAWING
NUMBER, PART NUMBER, DESCRIPTION
AND HAND.

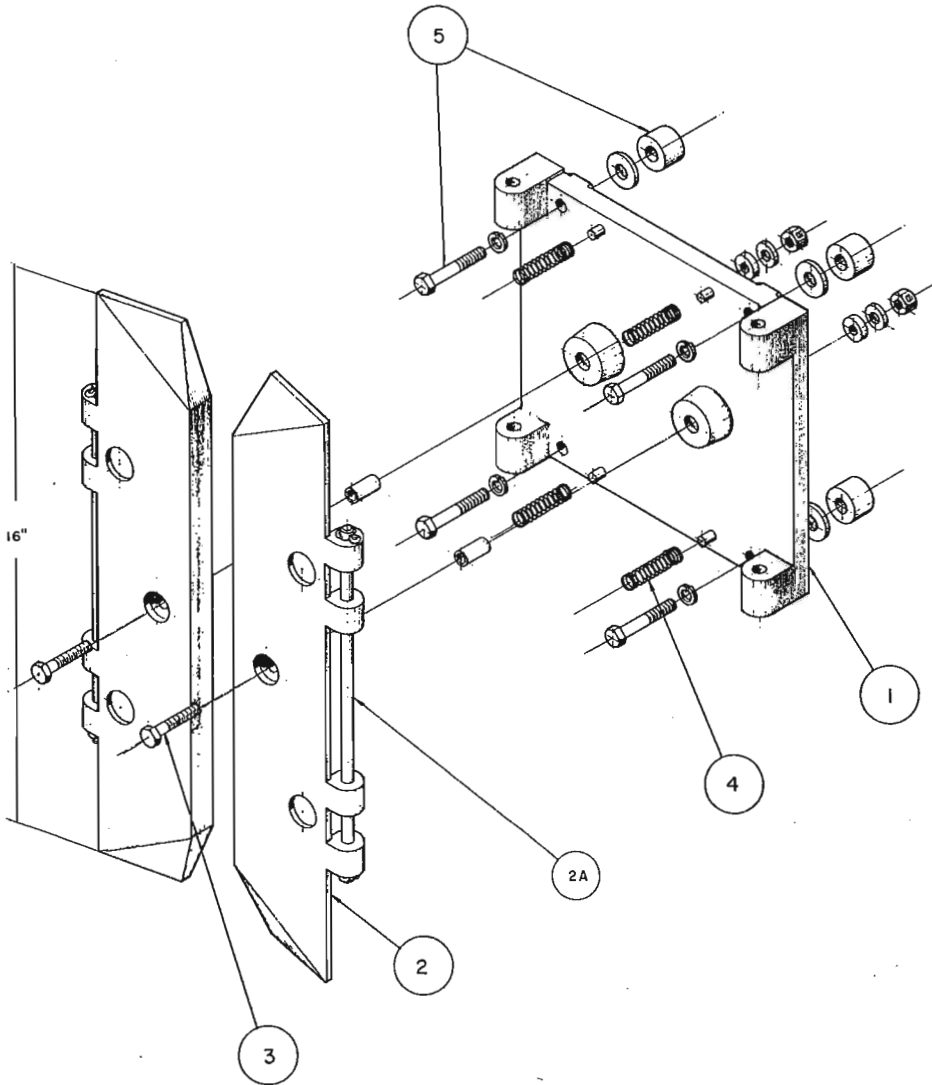
L.H. SHOWN

R.H. OPPOSITE AS SHOWN



TYPE "R"
CAR DOOR CLUTCH

SCALE 1/2		DATE 1-20-1975	
I	MIN. SALES 7-78	DWG. BY S C H.	OP-32
NO.	REVISION	DATE CHK. BY G F D.	



TYPE "S" CAR DOOR CLUTCH
(PARTS LIST)

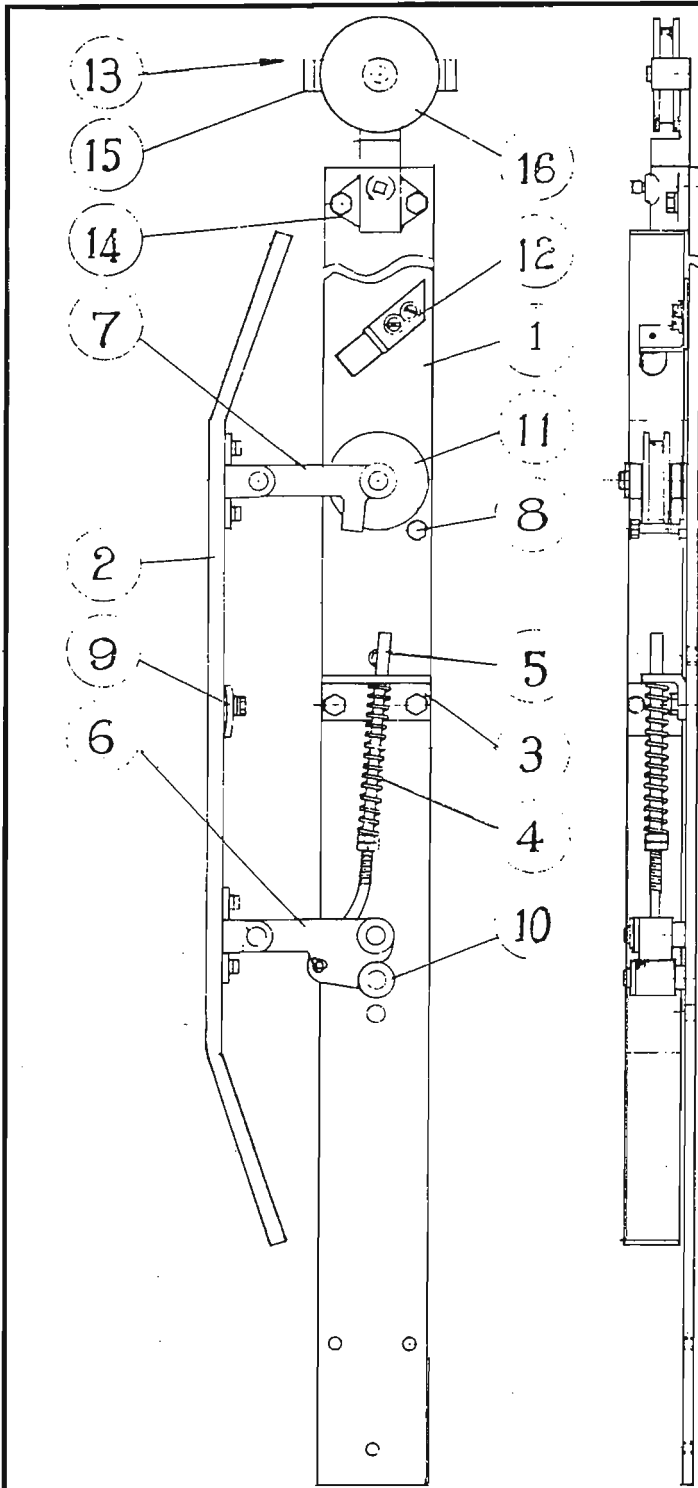
PART NO.	DESCRIPTION	
OP-33-1	TYPE "S" CLUTCH BASE	
OP-33-2	LEAF VANE (2) REQ'D.	
OP-33-2A	LEAF VANE HINGE PIN (2) REQ'D.	
OP-33-3	LEAF VANE ADJUSTING BOLTS (2) REQ'D.	
OP-33-4	LEAF VANE SPRINGS (4) REQ'D.	
OP-33-5	MOUNTING HARDWARE AND SPACERS	

NOTE: WHEN ORDERING SPECIFY THIS DRAWING NUMBER, PART NUMBER AND DESCRIPTION.

GAL
D. A. L. MANUFACTURING CORP.
50 EAST 151st STREET
BRONX, N.Y. 10461

TYPE "S"
CAR DOOR CLUTCH

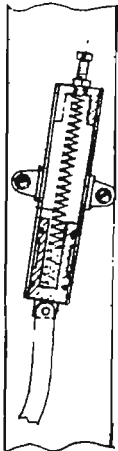
SCALE 1/2		DATE 1-22-1975	
I	MIN. SALES 7-78	DWG. BY S. C. H.	OP-33
NO.	REVISION	DATE CHK. BY G. F. D.	



PART No	NAME
RC-1-1	MOUNTING BASE
RC-1-2	CAM
RC-1-3	SPRING ROD GUIDE
RC-1-4	SPRING
RC-1-5	SPRING ROD
RC-1-6	LOWER LINK AND HINGE B'K'T.
RC-1-7	UPPER LINK AND HINGE B'K'T.
RC-1-8	CHAIN GUIDE BOLT
RC-1-9	R.C. CHAIN CLAMP
RC-1-10	LOWER LINK STOP BUMPER
RC-1-11	R.C. CHAIN GUIDE PULLEY
RC-1-12	STOP BUMPER ASS'Y.
RC-1-13	R.C. DEFLECTOR PULLEY ASS'Y. (INCLUDES PART 14-15-16)
RC-1-14	DEFLECTOR BEARING BLOCK
RC-1-15	DEFLECTOR PULLEY BRACKET
RC-1-16	DEFLECTOR PULLEY
RC-1-17	5'-0" R.C. CHAIN-NOT SHOWN

NOTE:
 AIR DASHPOT IS DISCONTINUED, REPLACE WITH PARTS NO. 3, 4, & 5, SPRING ROD ASSY. W/GUIDE

R. H. SHOWN
 L. H. OPPOSITE



SEE NOTE ABOVE

NO.	REVISION	DATE	CHK.



G. A. L. MANUFACTURING CORP.
 50 EAST 153rd STREET BRONX, N. Y. 10451

SCALE 1/4"
 DWG. BY S. C. H.
 CH'K. BY G. F. D.
 DATE 10. 3. 73

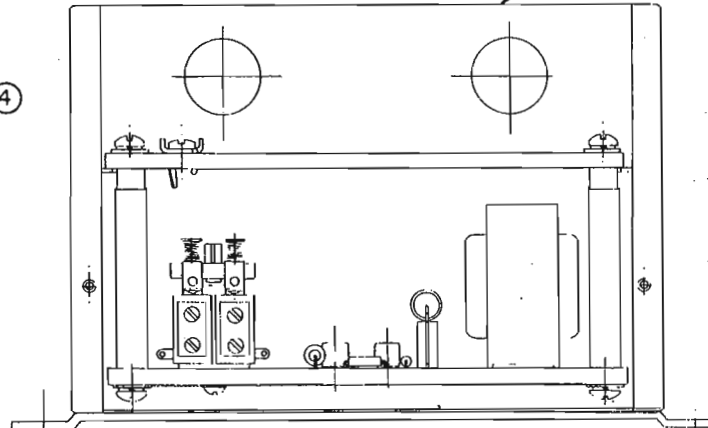
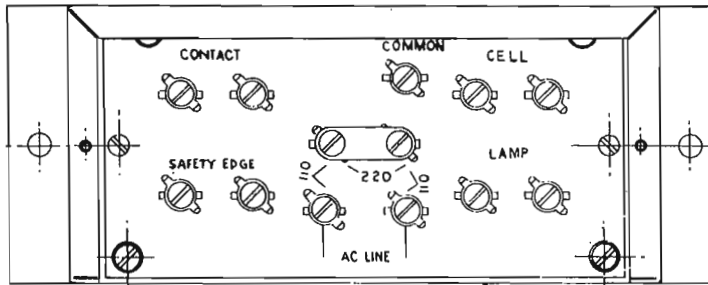
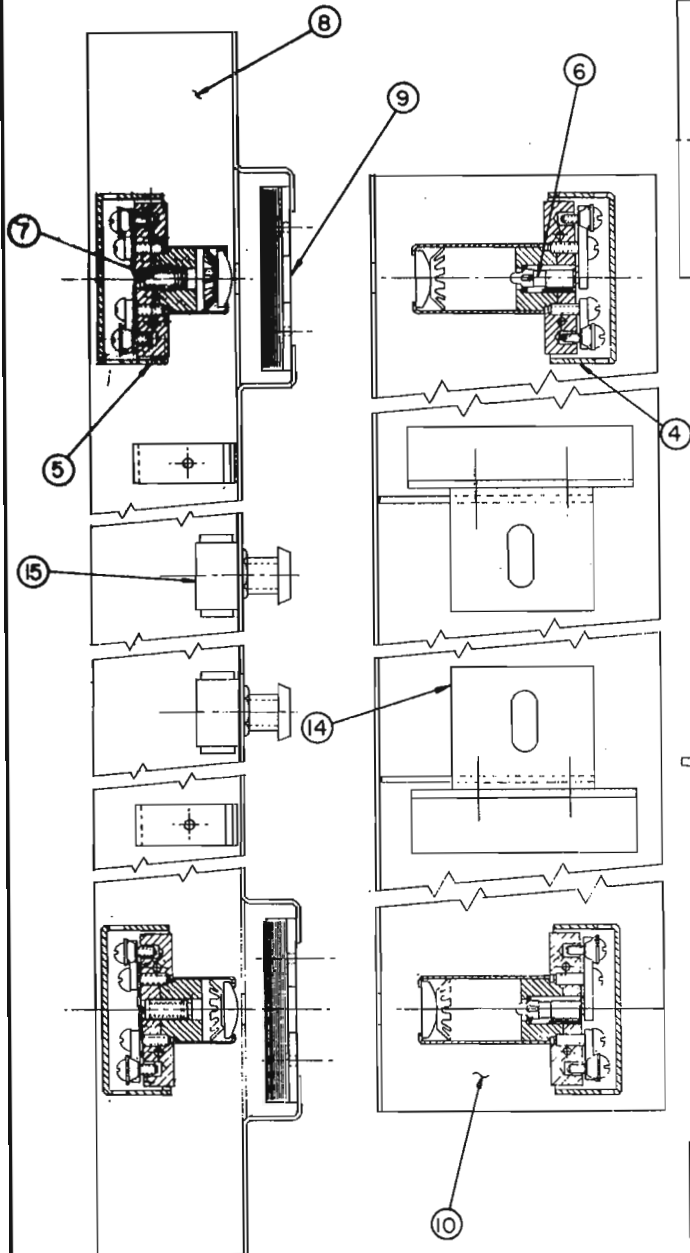
PART NO'S. ADD'D 4-26-83 T.C.D.
 REDRAWN 10-3-73 S.C.H

RETIRING CAM ASS'Y.

RC-1

③ CELL ASS'Y

② LAMP ASS'Y



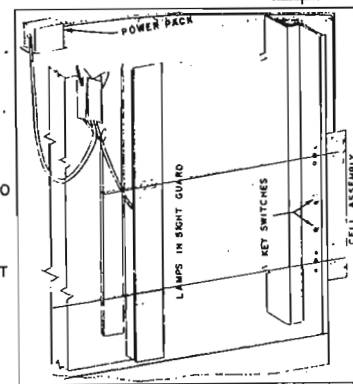
NOTES:

- (1) POWER PACK SUPPLIED AS UNIT. IF PARTS REQUIRED, RETURN UNIT TO G.A.L. FOR REPAIRS.
- (2) DOUBLE BEAM SHOWN, CAN ALSO BE SUPPLIED FOR SINGLE BEAM. (HIGH BEAM OR LOW BEAM)
- (3) LAMP UNITS MOUNTED ON SIGHT GUARD WHEN SUPPLIED WITH G.A.L. SAFETY EDGE.

DISCONTINUED
ONLY PARTS 4,5,& 7 AVAILABLE
REPLACED BY IREE

PARTS LIST

PART NO.	PART NAME
EE-1-1	"T" POWER PACK
EE-1-2	LAMP ASS'Y *
EE-1-3	CELL ASS'Y *
EE-1-4	LAMP UNIT
EE-1-5	CELL UNIT
EE-1-6	GE # 253X BULB
EE-1-7	CL-603-AL CELL
EE-1-8	CELL MTG BRACKET *
EE-1-9	CELL MTG BRACKET CLAMP
EE-1-10	LAMP MTG BRACKET
EE-1-11	2-WIRE CABLE(LAMP SIDE) NOT SHOWN
EE-1-12	3-WIRE CABLE(CELL SIDE) NOT SHOWN
EE-1-13	SIGHT GUARD (NOT SHOWN)*
EE-1-14	LAMP MTG BRACKET SUPPORT ANGLES
EE-1-15	KEYED DISCONNECT SWITCH (SUPPLIED AS OPTIONAL)



IMPORTANT

WHEN ORDERING PARTS, GIVE PART NUMBER AND PART NAME. SPECIFY HAND OF OPENING, OPENING WIDTH SIZE, DOOR TYPE(S/S, 2 SP, C/P OR 2 SP/CP)

R.H. - SHOWN

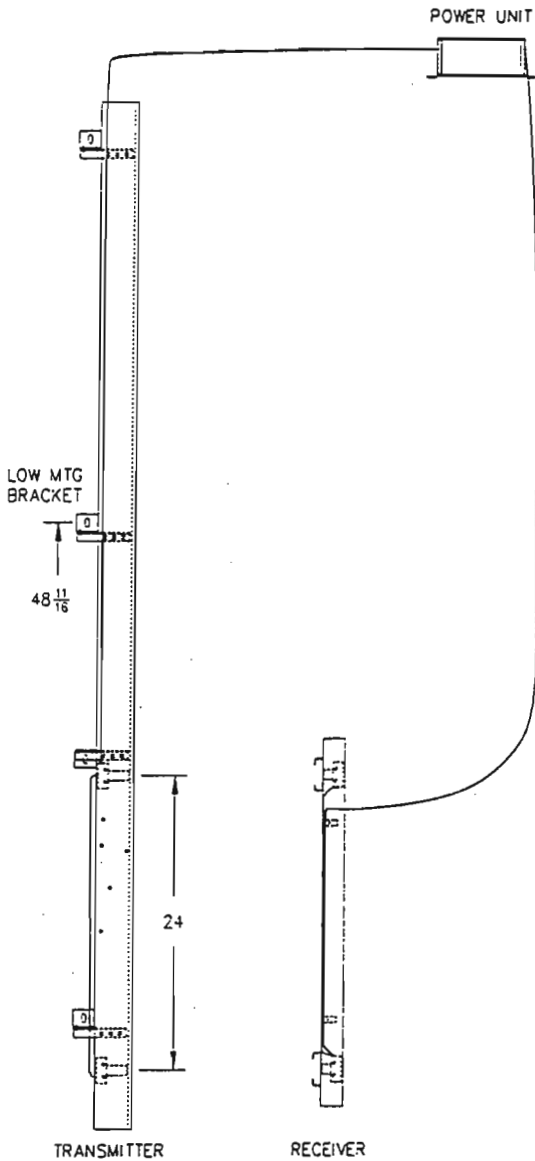
L.H. - OPPOSITE AS SHOWN

 G. A. L. MANUFACTURING CORP.
50 EAST 151ST STREET
BRONX, N. Y. 10451

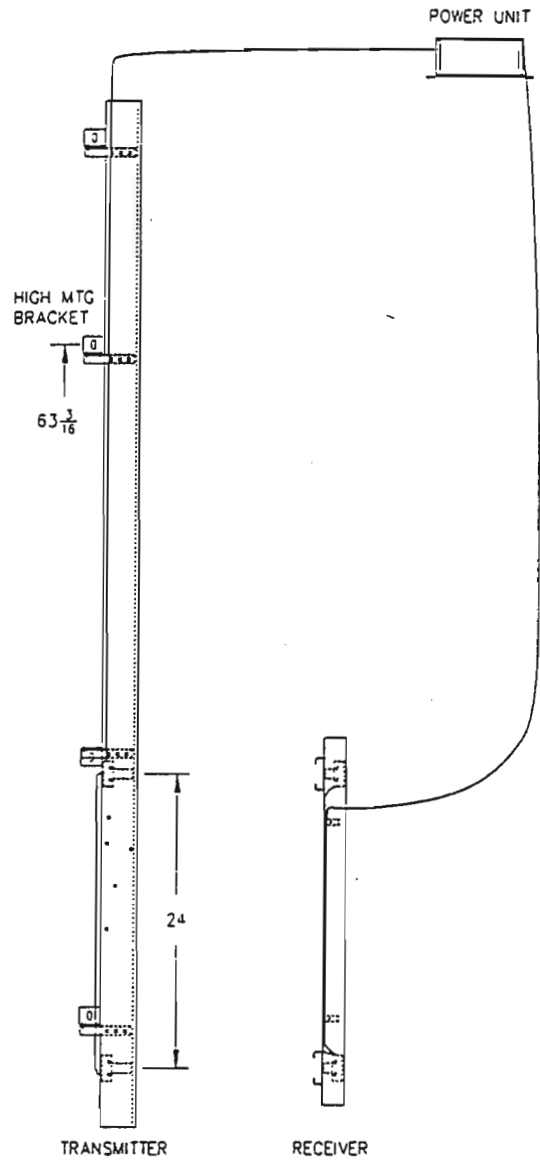
TYPE "T" ELECTRIC EYE

1	MIN SALES	7-70	SCALE FULL DIMSET-NONE	DATE 9-10-73
NO	REVISION	DATE	CHK BY S ADLER	
			CHK BY G F D	EE- 1

SINGLE SPEED AND TWO SPEED TYPE "2IREE" 2-BEAM INFRARED ELECTRIC EYE WITH 84" SIGHT GUARD (USED WITH G.A.L. SAFETY EDGE)



R.H. SHOWN
L.H. OPPOSITE



R.H. SHOWN
L.H. OPPOSITE

SUPPLY BOOKLET S-10075-6.1
WITH EVERY ASSEMBLY

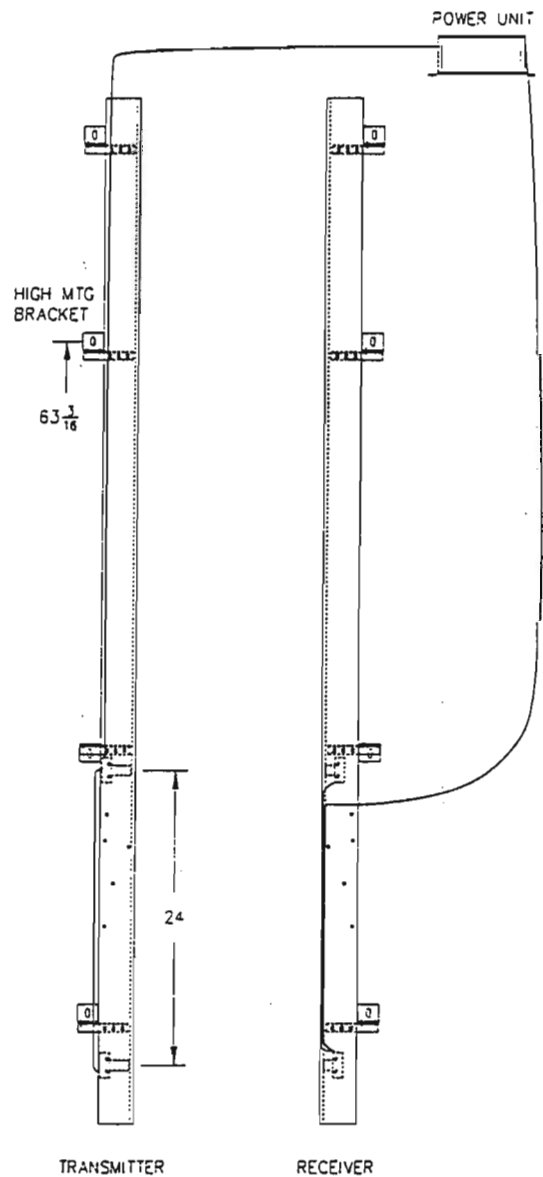
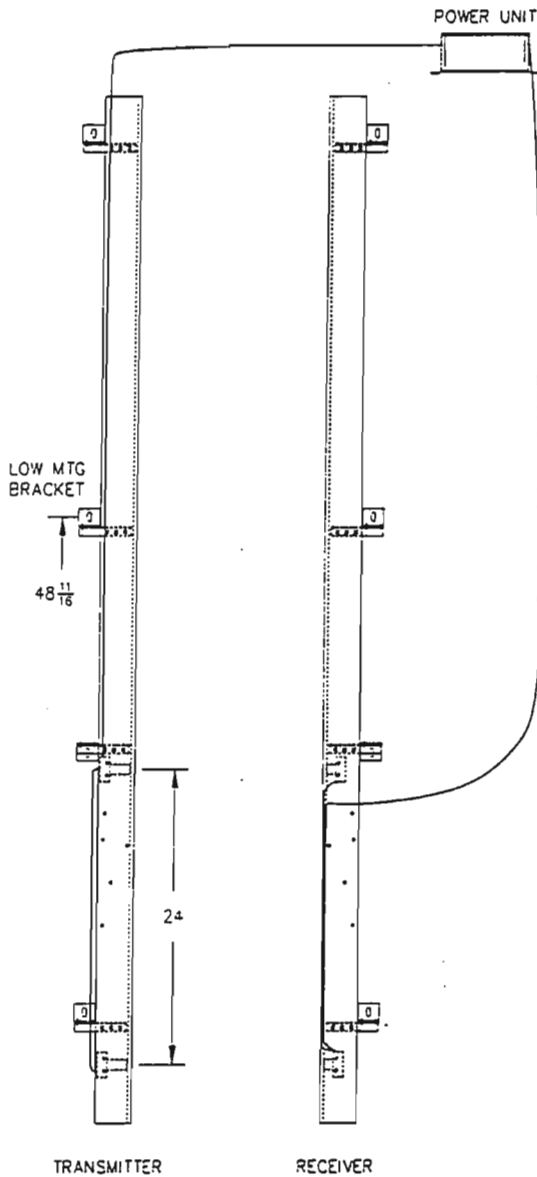
PART No.	"M" DIM.	S/S D.O.	2/SP D.O.
IREE-0001R IREE-0001L	11/15	22-39	24-39

INCLUDES MOUNTING HARDWARE No. IREE-0020N

PART No.	"M" DIM.	S/S D.O.	2/SP D.O.
IREE-0002R IREE-0002L	19/23	40-48	40-52
	27-35		53-72

INCLUDES MOUNTING HARDWARE No. IREE-0020N

CENTER PARTING AND TWO SPEED CENTER PARTING TYPE "2IREE" 2-BEAM INFRARED ELECTRIC EYE WITH 84" SIGHT GUARD (USED WITH G.A.L. SAFETY EDGE)



SUPPLY BOOKLET S-10075-6.1
WITH EVERY ASSEMBLY

PART No.	"M" DIM.	C/P D.O.	2S/CP D.O.
IREE-0003N	11/15	24-49	/
	15	/	40-49

INCLUDES (2) MOUNTING HARDWARE No. IREE-0020N

PART No.	"M" DIM.	C/P D.O.	2S/CP D.O.
IREE-0004N	19/23	50-83	/
	23	/	60-83

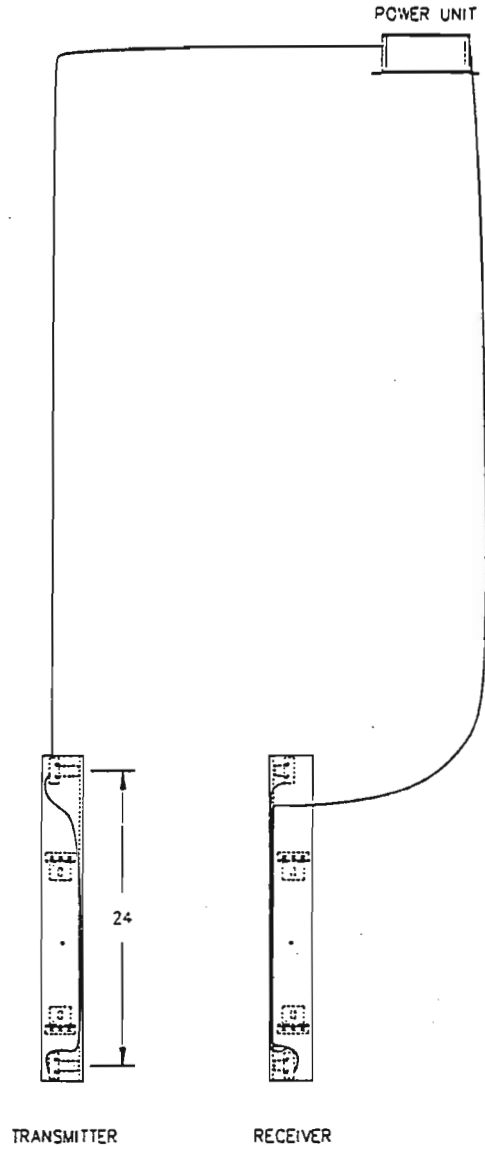
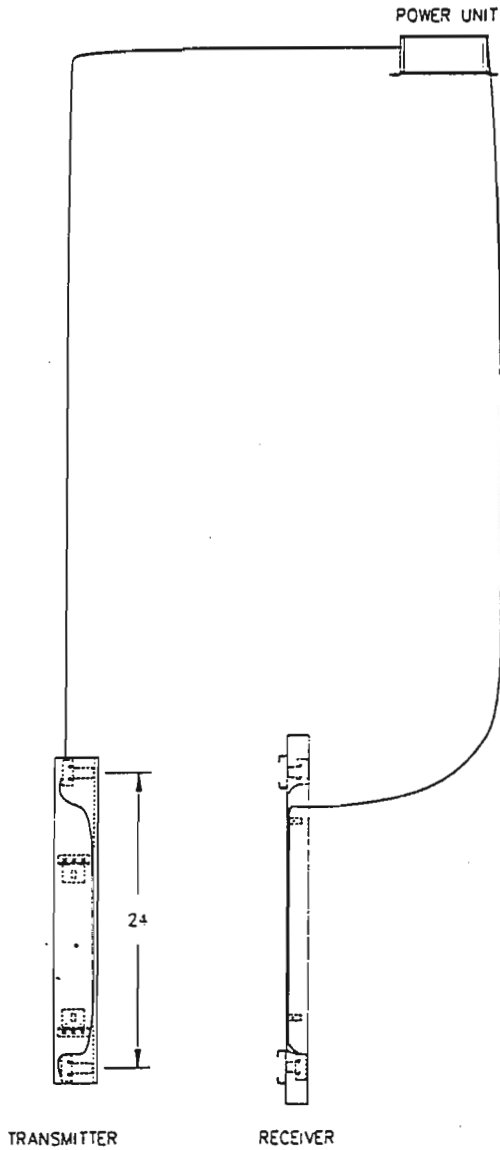
INCLUDES (2) MOUNTING HARDWARE No. IREE-0020N

TYPE "2IREE" 2-BEAM INFRARED ELECTRIC EYE
 WITHOUT SIGHT GUARD (USED WITH OTHER MANUFACTURERS SAFETY EDGE)



S/S AND 2/SP

C/P AND 2SP/CP



R.H. SHOWN
 L.H. OPPOSITE

SUPPLY BOOKLET S-10075-6.1
 WITH EVERY ASSEMBLY

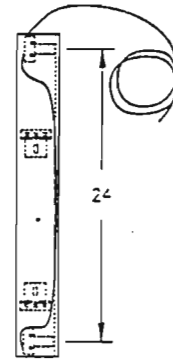
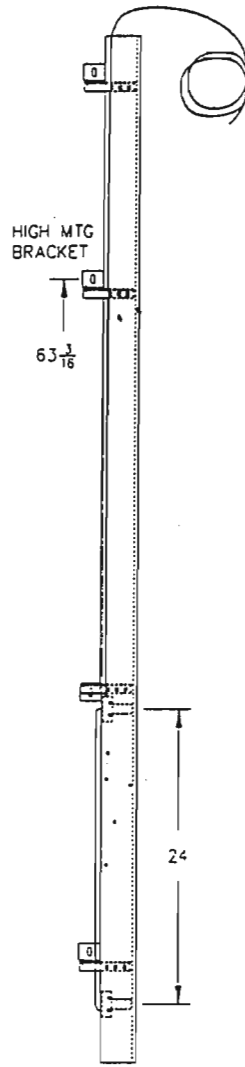
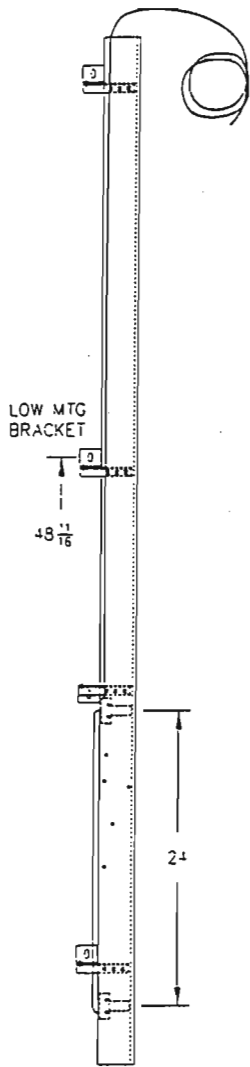
PART No.
IREE-0005R IREE-0005L

INCLUDES MOUNTING HARDWARE No. IREE-0020N

PART No.
IREE-0006N

INCLUDES MOUNTING HARDWARE No. IREE-0020N

TRANSMITTER ASSEMBLIES TYPE "2IREE" 2-BEAM INFRARED ELECTRIC EYE



PART No. IREE-0010R*
IREE-0010L

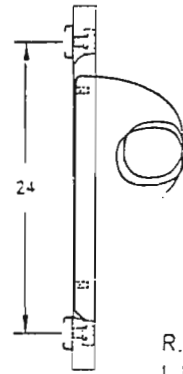
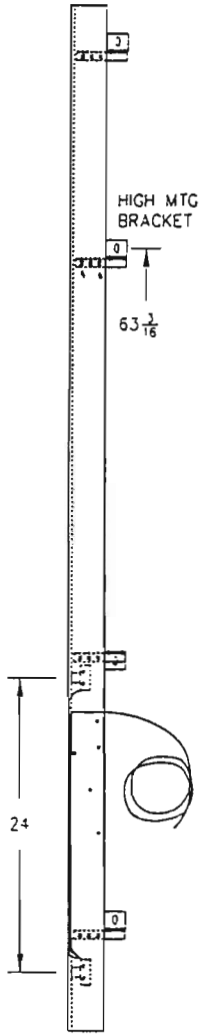
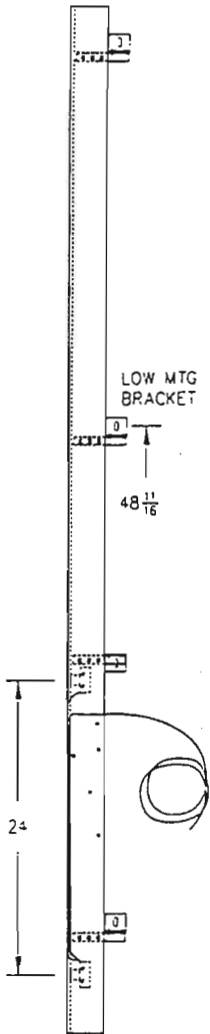
* USE R.H. ASSEMBLY FOR C/P & 2SP/CP INSTALLATIONS

R.H. SHOWN
L.H. OPPOSITE

PART No. IREE-0008R* IREE-0008L				
"M" DIM.	S/S D.O.	2/SP D.O.	C/P D.O.	2S/CP D.O.
11/15	22-39	24-39	24-49	/
15	/	/	/	40-49

PART No. IREE-0009R* IREE-0009L				
"M" DIM.	S/S D.O.	2/SP D.O.	C/P D.O.	2S/CP D.O.
19/23	40-48	40-52	50-83	/
23	/	/	/	60-83
27-35	/	53-72	/	/

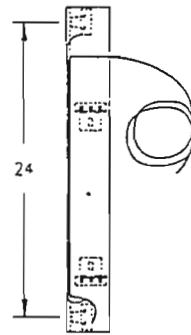
RECEIVER ASSEMBLIES TYPE "2IREE" 2-BEAM INFRARED ELECTRIC EYE



R.H. SHOWN
L.H. OPPOSITE

S/S & 2/SP

PART No.
IREE-0013R
IREE-0013L



C/P & 2SP/CP

PART No.
IREE-0014N

C/P & 2SP/CP

PART No. IREE-0011N		
"M" DIM.	C/P D.O.	2S/CP D.O.
11/15	24-49	/
15	/	40-49

C/P & 2SP/CP

PART No. IREE-0012N		
"M" DIM.	C/P D.O.	2S/CP D.O.
19/23	50-83	/
23	/	60-83



G.A.L. MANUFACTURING CORP.
50 EAST 153RD STREET BRONX, NEW YORK 10451-2196
(718) 292-9000 FAX (718) 292-2034
E-MAIL US AT: INFO@GAL.COM WEB: WWW.GAL.COM

ESTABLISHED 1927

Contractor _____ Date _____

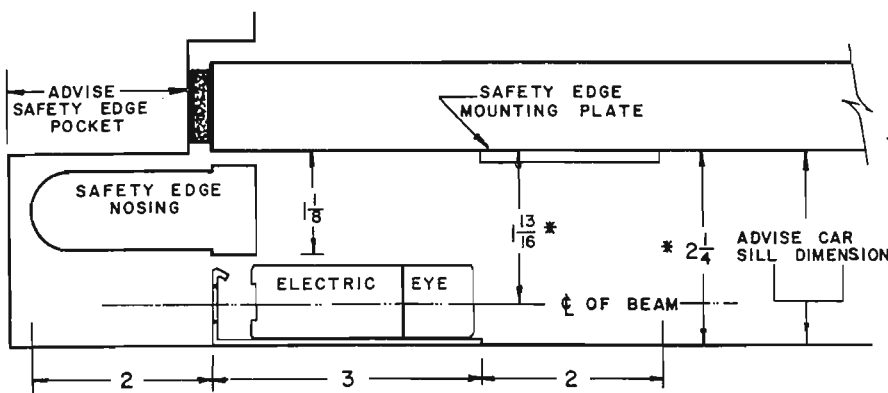
G.A.L. # _____

IMPORTANT INFORMATION FOR ORDERING

G.A.L. SAFETY EDGES

- (1) Do you require a _____ Retractable _____ Fixed Safety Edge?
- (2) Is this a replacement for a G.A.L. Safety Edge? _____ Yes _____ No
- (3) Advise the following:-
a) Job Name and Address _____

b) Original Elevator Contractor's Name _____
c) Year Job was Installed _____
d) Original G.A.L. Job # _____
- (4) Type of Doors: _____ Single Speed, _____ Two Speed, _____ Three Speed,
_____ Center Parting, _____ Two Speed/Center Parting
- (5) a) If doors are Two Speed, are doors related by Cable _____ Yes _____ No,
or Sill Mounted Linkage _____ Yes _____ No.
b) If Doors are Three Speed or Two Speed/Center-Parting, we recommed you
phone G.A.L. for clarification of your requirements.
- (6) Advise the following:-
a) Clear Door Opening Width _____
b) Height of Doors _____
c) Width of each Door _____
d) Hand of Opening (Looking at Cab from corridor side)
Door(s) close to the: _____ Right; _____ Left?

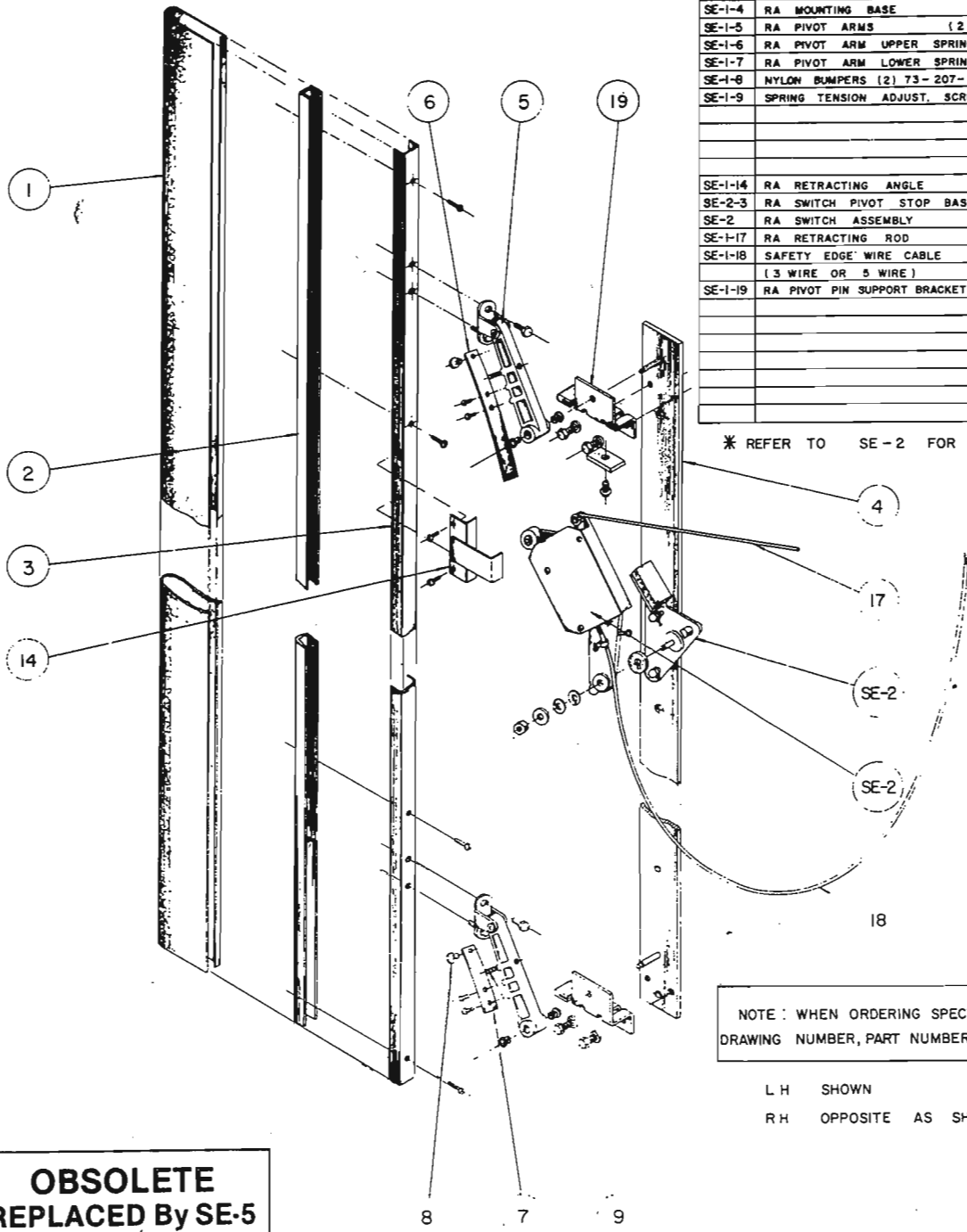


* CAN BE REDUCED BY 1/8".
G.A.L. STANDARD CLEARANCE
DIMENSIONS SHOWN FOR
SAFETY EDGE AND ELECTRIC
EYES.

Q-SE-S
9-1-83,

RA-RETRACTABLE ALUM SAFETY EDGE
(PART LIST)

PART-NO	DESCRIPTION
SE-1-1	RA NOSING (ALUMINUM)
SE-1-2	RA INNER CHANNEL
SE-1-3	RA OUTER CHANNEL
SE-1-4	RA MOUNTING BASE
SE-1-5	RA PIVOT ARMS (2)
SE-1-6	RA PIVOT ARM UPPER SPRING
SE-1-7	RA PIVOT ARM LOWER SPRING
SE-1-8	NYLON BUMPERS (2) 73-207-12024
SE-1-9	SPRING TENSION ADJUST. SCREWS (2)
SE-1-14	RA RETRACTING ANGLE
SE-2-3	RA SWITCH PIVOT STOP BASE *
SE-2	RA SWITCH ASSEMBLY *
SE-1-17	RA RETRACTING ROD
SE-1-18	SAFETY EDGE WIRE CABLE (3 WIRE OR 5 WIRE)
SE-1-19	RA PIVOT PIN SUPPORT BRACKET ASSY



* REFER TO SE-2 FOR PARTS.

NOTE: WHEN ORDERING SPECIFY THIS DRAWING NUMBER, PART NUMBER, AND HAND.

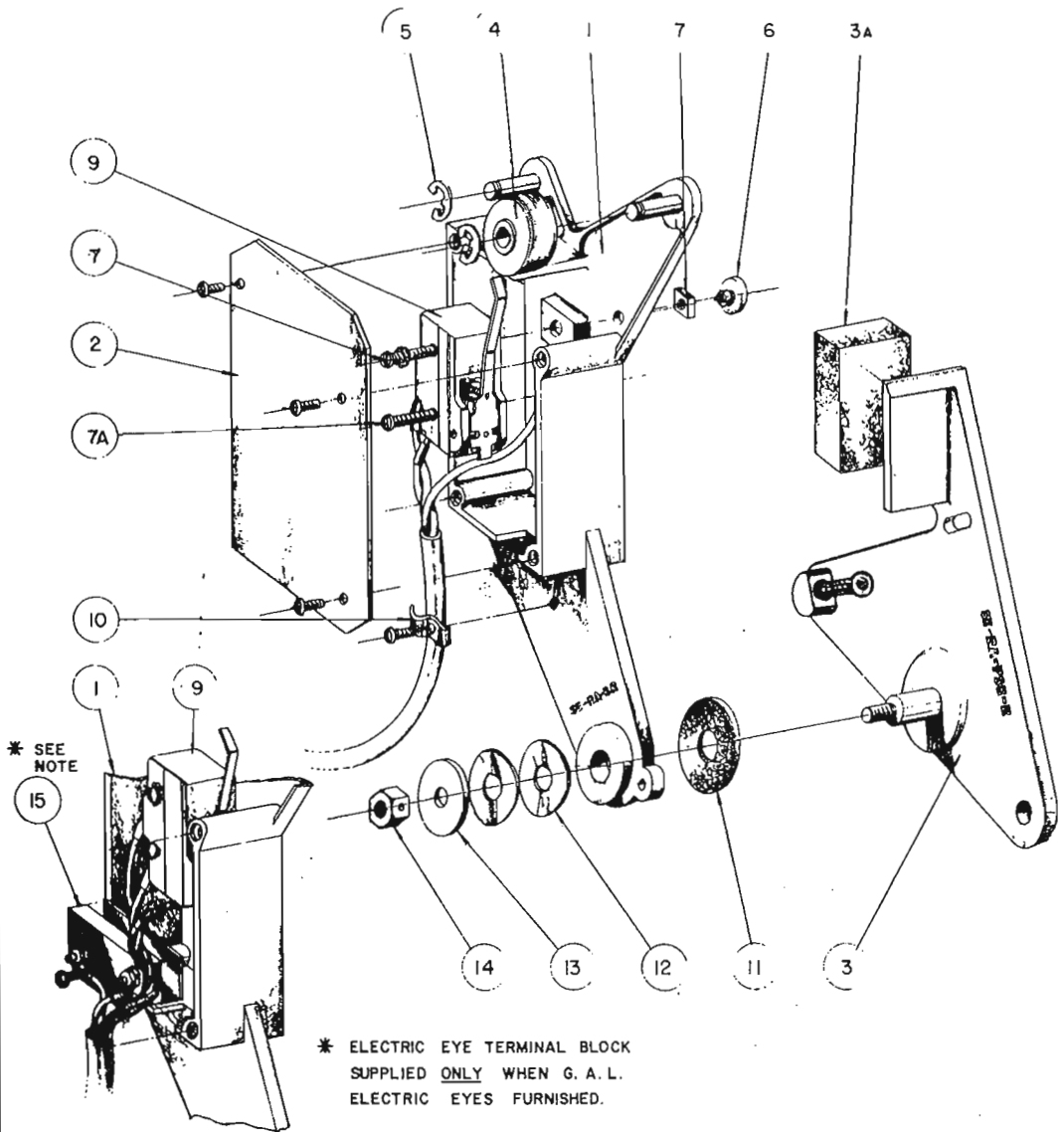
L H SHOWN
R H OPPOSITE AS SHOWN

**OBSOLETE
REPLACED BY SE-5**

GAL B. A. L. MANUFACTURING CORP.
150 EAST 153RD STREET BROOKLYN, N.Y. 10441

RA-RETRACTABLE ALUM SAFETY EDGE (PART LIST)

SCALE	DATE	JAN	31	1974
REV	MIN	SALES	7-78	DWG BY S C H
REV	REVISION	DATE	CHK BY G E D	SE - 1



* ELECTRIC EYE TERMINAL BLOCK SUPPLIED ONLY WHEN G. A. L. ELECTRIC EYES FURNISHED.

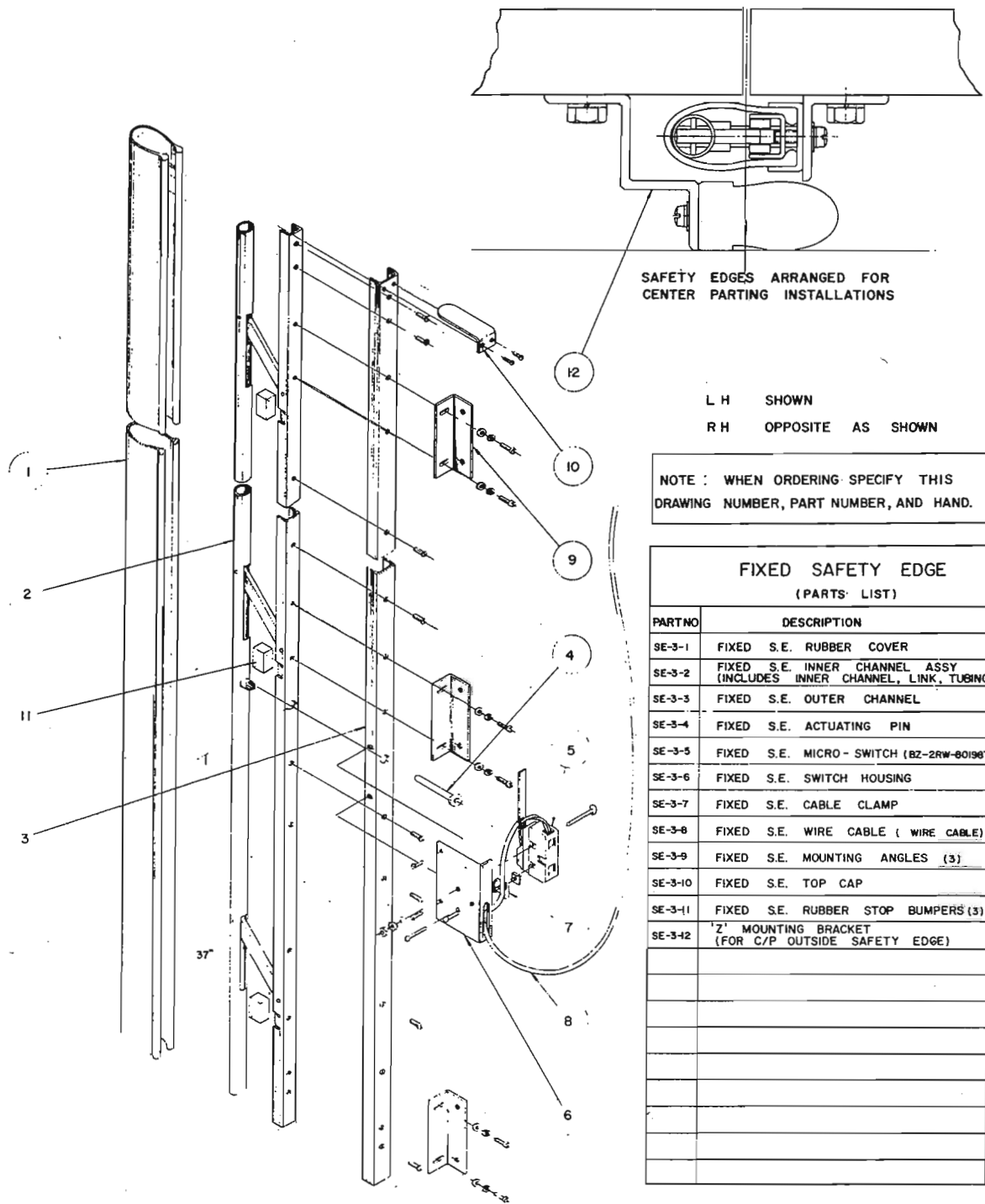
RA SAFETY EDGE SWITCH ASSY (PART LIST)	
PART NO	DESCRIPTION
SE-2-1	SWITCH HOUSING
SE-2-2	COVER AND SCREWS
SE-2-3	PIVOT STOP BASE
SE-2-3A	RUBBER SPONGE STOP
SE-2-4	SAFETY EDGE RETRACTING ROLLER
SE-2-5	ROTO-CLIP 5144-25
SE-2-6	NYLON BUMPER 73-207-12024
SE-2-7	MICRO SWITCH ADJUSTMENT NUT & SCREW
SE-2-7A	MICRO SWITCH MOUNTING SCREW
SE-2-9	MICRO SWITCH BZ-2RW-80198T
SE-2-10	SAFETY EDGE CABLE CLAMP & SCREW
SE-2-11	CORK FRICTION WASHER
SE-2-12	SPRING WASHERS (2) REQUIRED
SE-2-13	COPPER FRICTION WASHER
SE-2-14	FRICTION ADJUSTMENT NUT
SE-2-15	ELECTRIC EYE TERMINAL BLOCK WITH INSULATOR & SCREW

R H SHOWN
L H OPPOSITE AS SHOWN

NOTE: WHEN ORDERING SPECIFY THIS DRAWING NUMBER, PART NUMBER, AND HAND



RA SAFETY EDGE SWITCH ASSEMBLY (PART LIST)			
2	ADDED SPRING	7-85	SCALE FULL
1	MIN SALES	7-78	DATE JAN 14 1974
NO	REVISION	DATE	DWG BY S C H CHK BY G F D



SAFETY EDGES ARRANGED FOR
CENTER PARTING INSTALLATIONS

L H SHOWN
R H OPPOSITE AS SHOWN

NOTE: WHEN ORDERING SPECIFY THIS
DRAWING NUMBER, PART NUMBER, AND HAND.

**FIXED SAFETY EDGE
(PARTS LIST)**

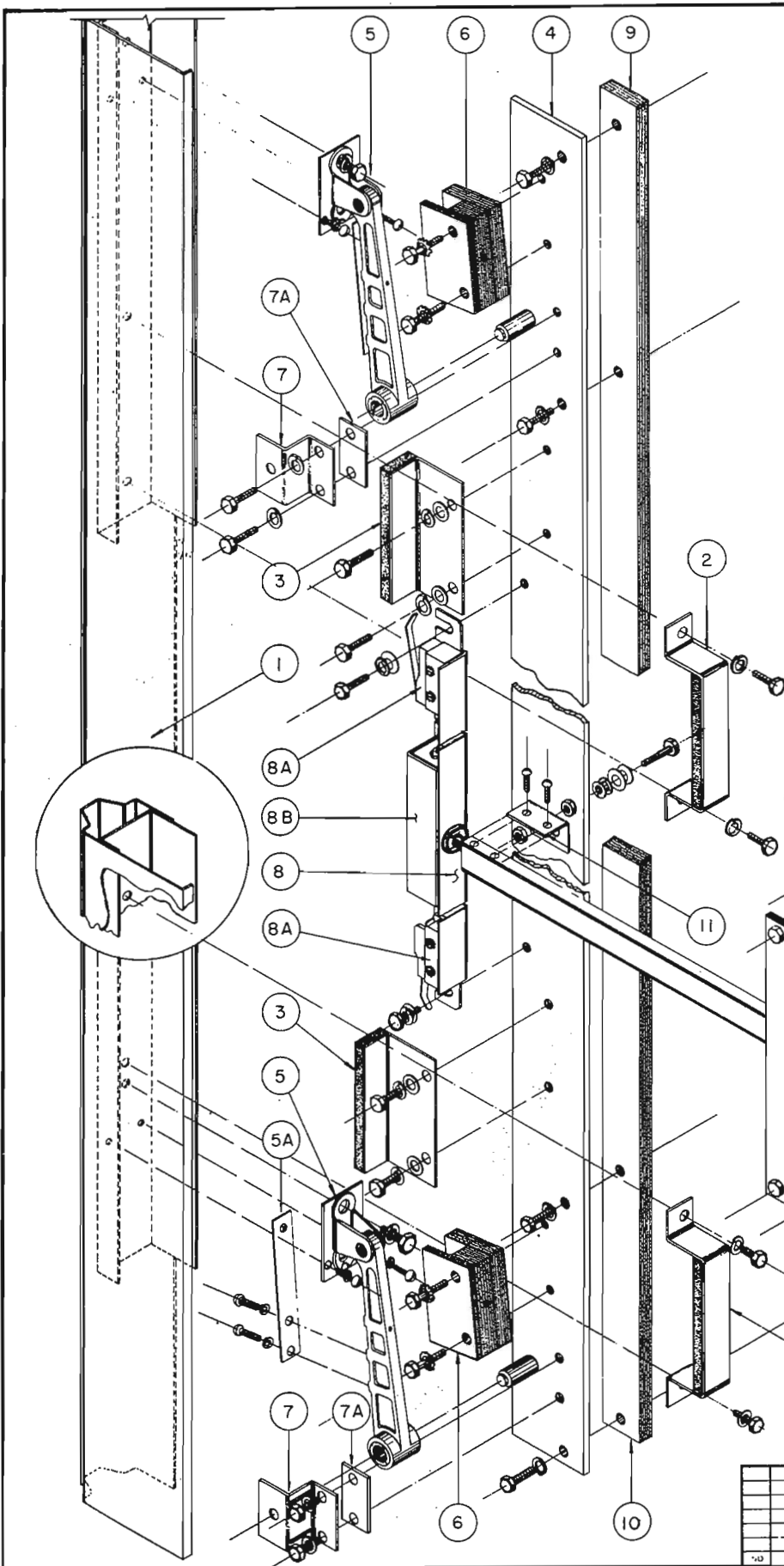
PARTNO	DESCRIPTION	
SE-3-1	FIXED S.E. RUBBER COVER	
SE-3-2	FIXED S.E. INNER CHANNEL ASSY (INCLUDES INNER CHANNEL, LINK, TUBING)	
SE-3-3	FIXED S.E. OUTER CHANNEL	
SE-3-4	FIXED S.E. ACTUATING PIN	
SE-3-5	FIXED S.E. MICRO - SWITCH (BZ-2RW-00196T)	
SE-3-6	FIXED S.E. SWITCH HOUSING	
SE-3-7	FIXED S.E. CABLE CLAMP	
SE-3-8	FIXED S.E. WIRE CABLE (WIRE CABLE)	
SE-3-9	FIXED S.E. MOUNTING ANGLES (3)	
SE-3-10	FIXED S.E. TOP CAP	
SE-3-11	FIXED S.E. RUBBER STOP BUMPERS (3)	
SE-3-12	'Z' MOUNTING BRACKET (FOR C/P OUTSIDE SAFETY EDGE)	

OBSOLETE
EXCEPT RUBBER COVER
& SWITCH



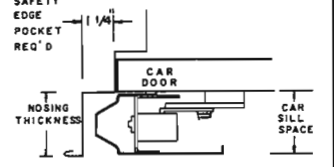
**FIXED SAFETY EDGE
(PARTS LIST)**

SCALE	DATE FEB. 7, 1974
DWG. BY S. C. H.	
CHK. BY G. F. D.	SE-3



TYPE "HA" SAFETY EDGE STAINLESS STEEL	
PART N ^o	DESCRIPTION
SE-4-1	"HA" ST. STL. NOSING ASSY (SPECIFY 2 1/4" or 1 3/4" THICK, HAND & HEIGHT)
SE-4-2	"HA" S.E. STOP BRACKET W/BUMPER
SE-4-3	"HA" S.E. STOP ANGLE W/BUMPER
SE-4-4	"HA" MOUNTING BASE (HANDED)
SE-4-5	"HA" PIVOT ARM & LEAF SPRING ASSY
SE-4-5A	"HA" PIVOT ARM SPRING
SE-4-6	"HA" PIVOT ARM BAKELITE GUARD ASSY (SPECIFY FOR 2 1/4" or 1 3/4" THICK NOSING)
SE-4-7	"HA" S.E. PIVOT PIN SUPPORT BRACKET
SE-4-7A	"HA" SUPPORT BRACKET SPACER (ON 2 1/4" THICK NOSING ONLY)
SE-4-8	"HA" SWITCH ASSEMBLY W/CABLE
SE-4-8A	MICRO SWITCHES N ^o BZ-2RW855-A2-S
SE-4-8B	"HA" JUNCTION BOX COVER & SCREWS
SE-4-9	"HA" 3/8" x 1 5/8" x 25 1/2" LG. MOUNTING PLATE BAKELITE SPACER (TOP)
SE-4-10	"HA" 3/8" x 1 5/8" x 23 3/4" LG. MOUNTING PLATE BAKELITE SPACER (BOTTOM)
SE-4-11	"HA" S.E. CABLE SHIELD SWIVEL BRACKET & SCREWS
SE-4-12	"HA" S.E. ALUM. CABLE SHIELD (HANDED)
SE-4-13	"HA" S.E. CABLE SHIELD GUIDE ASSY
SE-4-14	"HA" S.E. 3 WIRE CABLE

NOTES : STANDARD O.A. HEIGHTS AVAILABLE
77", 79" & 83"



CAR SILL SPACE	S.E. NOSING THKS.
2 1/4"	USE 2 1/4"
1 3/4" TO 2"	USE 1 3/4"

ALL FERROUS MATERIAL ARE
CADMIUM PLATED
MICRO-SWITCHES ARE "SPASH
PROOF TYPE."
WHEN ORDERING SPECIFY PART N^o,
HAND, HEIGHT & SILL SPACE.

LH SHOWN
RH OPPOSITE

GAL E. A. L. MANUFACTURING CORP.
50 EAST 151st STREET MONK, N. Y. 10451

TYPE "HA" SAFETY EDGE STAINLESS STEEL	
SCALE	DATE 9-8-83
OWG BY WSP/ere	SE-4
CHK BY FO	

"RA" RETRACTABLE ALUM SAFETY EDGE
(PART LIST)

PART N°	DESCRIPTION
SE-5-1	"RA" S.E. ALUM. NOSING BODY (ADVISE HT.)
SE-2	"RA" SWITCH ASSEMBLY (REF TO DWG. SE-2)
SE-5-4	"RA" S.E. MOUNTING BASE & PIVOT ARM ASS'Y. (INCLUDES PARTS N° 4 to 12 & 19) (HANDED) (SEE NOTE "C")
SE-5-5	"RA" S.E. PIVOT ARM & LEAF SPRING ASS'Y. (INCLUDES PARTS N° 5 to 9 & 12 (SPECIFY UPPER OR LOWER SPRING))
SE-5-6	"RA" S.E. UPPER PIVOT ARM LEAF SPRING
SE-5-7	"RA" S.E. LOWER PIVOT ARM LEAF SPRING
SE-5-8	"RA" NYLON BUMPER (N° 73-207-12024)
SE-5-9	"RA" SPRING TENSION ADJUSTING SCREW
SE-5-10	"RA" PIVOT BRACKET RUBBER BUMPER
SE-5-11	"RA" SPRING TENSION BAKELITE BLOCK W/SCREW
SE-5-12	7L-7F NYLINER BUSHING
SE-5-14	"RA" S.E. RETRACTING ANGLE
SE-5-17	"RAL" S.E. RETRACTING ROD
SE-5-18	"RA" S.E. 3 WIRE CABLE (ST'D) or 5 WIRE CABLE (USED W/GAL ELEC. EYE)
SE-5-19	"RA" S.E. PIVOT PIN SUPPORT BRACKET W/SCREWS

NOTES:

- (A) WHEN ORDERING PARTS SPECIFY PART N°, HAND & HEIGHT, IF APPLICABLE.
- (B) WHEN ORDERING A COMPLETE SAFETY EDGE SEE QUESTIONNAIRE (Q-SE-5) "IMPORTANT INFORMATION FOR ORDERING G.A.L. SAFETY EDGE", FOUND IN THE BEGINNING OF THIS SECTION. ALSO SEE NOTE (C)
- (C) WHEN ORDERING REPLACEMENT FOR AN EXISTING "G.A.L." MOUNTING BASE ASS'Y. OR COMPLETE SAFETY EDGE, ADVISE CENTER LINE ℓ DIMENSION OF PIVOT ARMS.

PIVOT ARM ℓ	MTG. BASE TYPE
40" ℓ	FIG. N°1
55 1/2" ℓ	FIG. N°2
59 1/8" TO 63 1/8" ℓ	FIG. N°3-SPLIT BASE

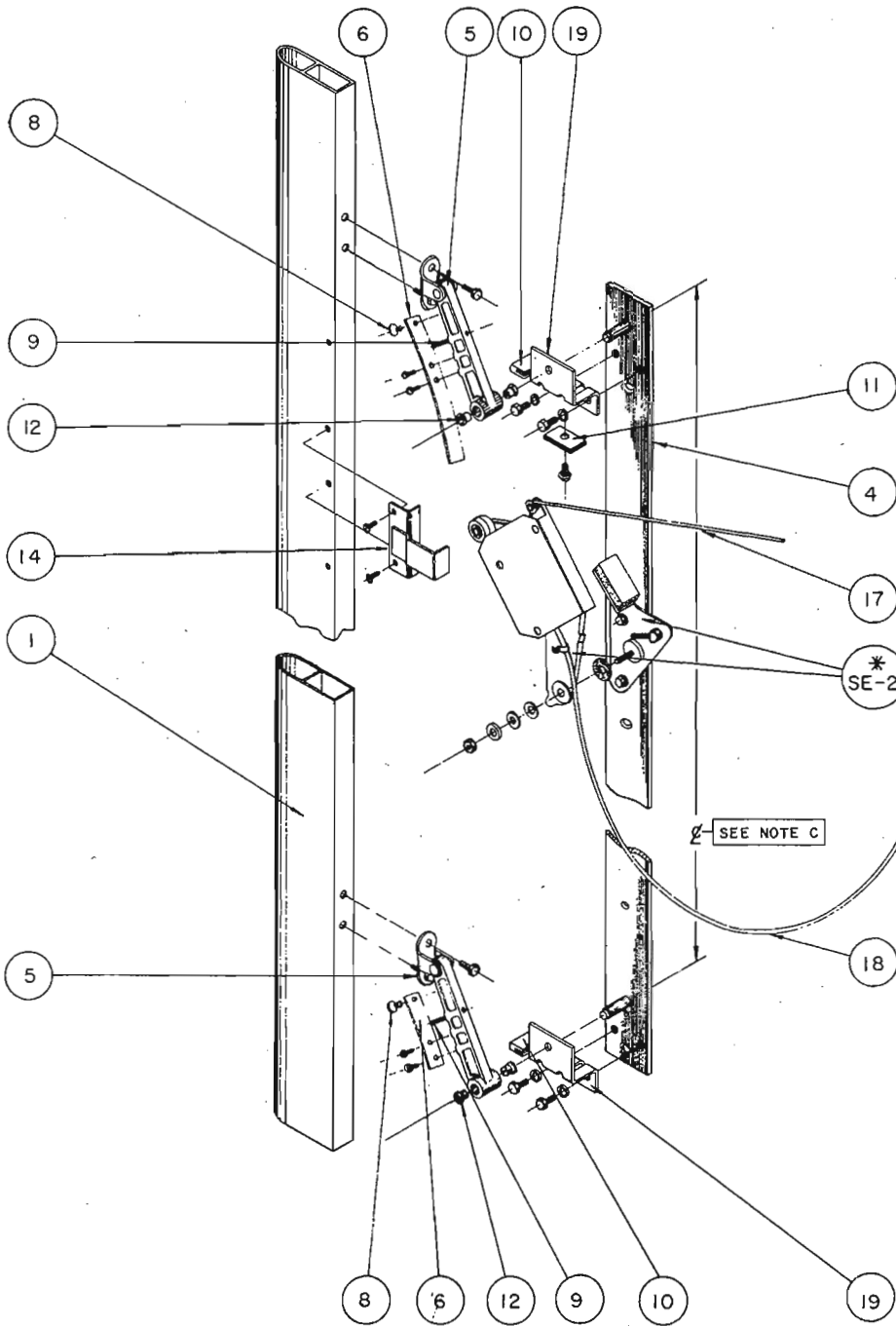
LH SHOWN
RH OPPOSITE

SUPERSEDES DRAWING SE-1
(9-27-82)



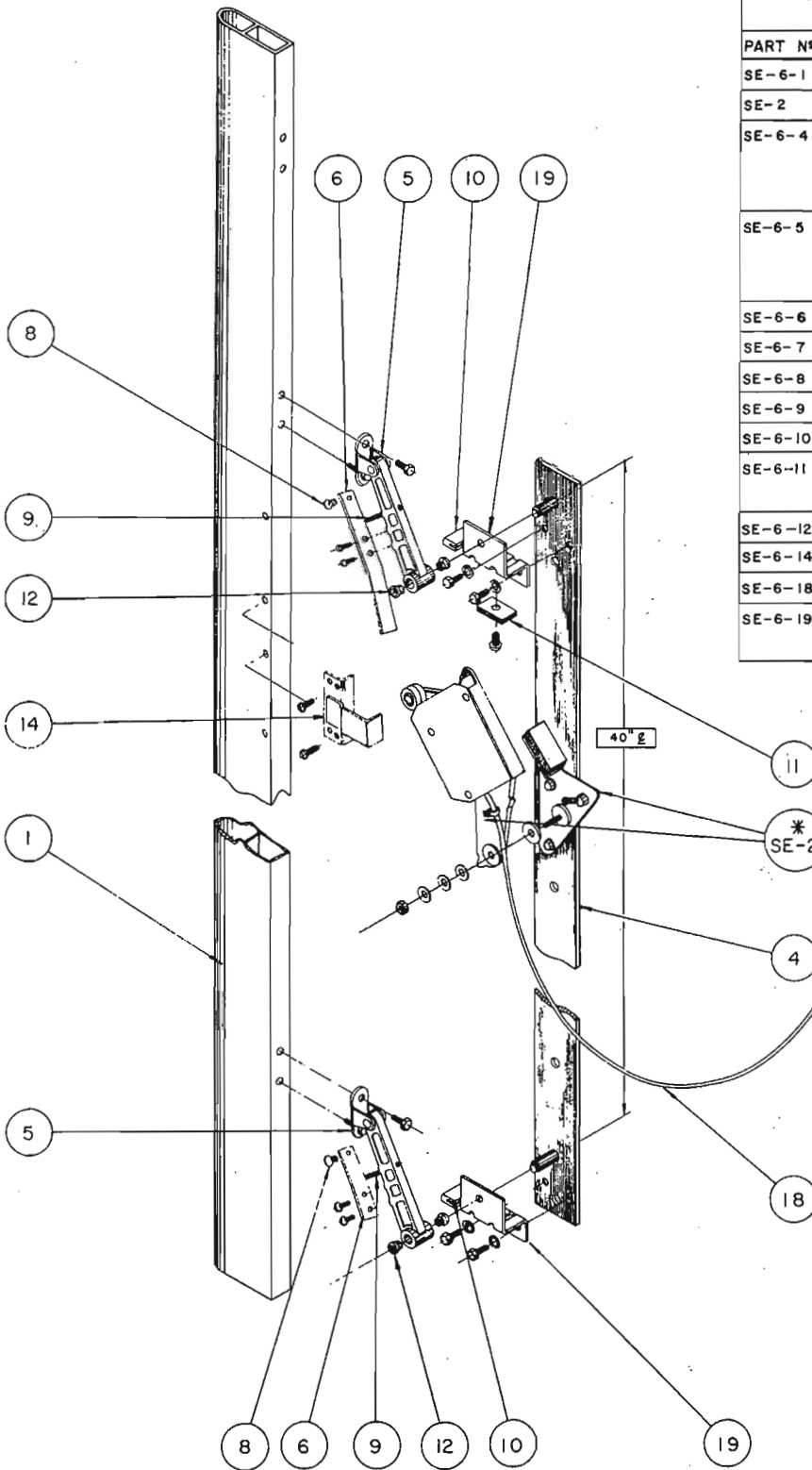
"RA" RETRACTABLE ALUM SAFETY EDGE

NO.	REVISION	DATE	CHK. BY	SCALE	DATE
					9-15-83
				DWG. BY	WSP/ees
				SE-5	



"RA" FIXED ALUM. SAFETY EDGE

PART N ^o	DESCRIPTION
SE-6-1	"RA" S.E. ALUM. NOSING BODY(ADVISE HT.)
SE-2	"RA" SWITCH ASSEMBLY(REF. TO DWG SE-2)
SE-6-4	"RA" FIXED S.E. MOUNTING BASE & PIVOT ARM ASS'Y. FIG. 1 (INCLUDES PARTS N ^o 4 TO 12 & 19)(SPECIFY R.H. or L.H.)
SE-6-5	"RA" S.E. PIVOT ARM & LEAF SPRING ASS'Y. (INCLUDES PARTS N ^o 5 TO 9 & 12)(SPECIFY UPPER OR LOWER SPRING)
SE-6-6	"RA" S.E. UPPER PIVOT ARM LEAF SPRING
SE-6-7	"RA" S.E. LOWER PIVOT ARM LEAF SPRING
SE-6-8	"RA" NYLON BUMPER (N ^o 73-207-12024)
SE-6-9	"RA" SPRING TENSION ADJUSTING SCREW
SE-6-10	"RA" PIVOT BRACKET RUBBER BUMPER
SE-6-11	"RA" SPRING TENSION BAKELITE BLOCK W/SCREW
SE-6-12	7L-7F NYLINER BUSHING
SE-6-14	"RA" FIXED S.E. RETRACTING ANGLE
SE-6-18	"RA" S.E. 3 WIRE CABLE
SE-6-19	"RA" S.E. PIVOT PIN SUPPORT BRACKET W/SCREWS



NOTE:

WHEN ORDERING SPECIFY
PART N^o, HAND & HEIGHT

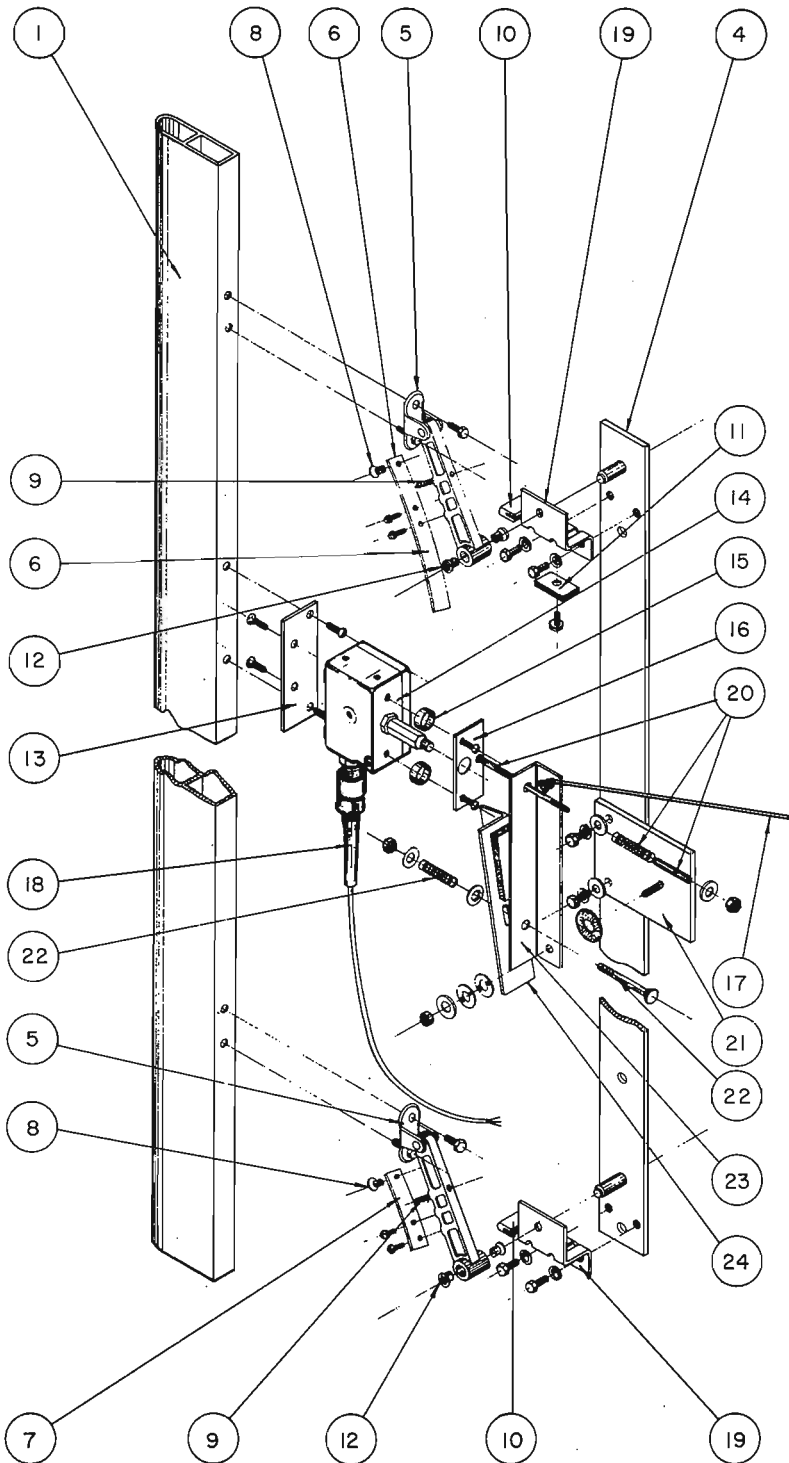
LH. SHOWN
RH. OPPOSITE



"RA" FIXED ALUMINUM SAFETY EDGE

NO.	REVISION	DATE	CHK.	SCALE	DATE
				DWG. BY WFP/raz	9-27-83
				CHK. BY	SE-6

"RALX" EXPLOSION PROOF ALUM. SAFETY EDGE



PART N ^o	DESCRIPTION
SE-7-1	"RA" S.E. ALUM. NOSING BODY (ADVISE HEIGHT)
SE-7-4	"RA" S.E. MOUNTING BASE & PIVOT ARM ASS'Y (INCLUDES PARTS 4 TO 12 & 19) (SPECIFY LH or RH)
SE-7-5	"RA" S.E. PIVOT ARM & LEAF SPRING ASS'Y. (INCLUDES PARTS N ^o 5 TO 9 & 12) (SPECIFY UPPER OR LOWER SPRING)
SE-7-6	"RA" S.E. UPPER PIVOT ARM LEAF SPRING
SE-7-7	"RA" S.E. LOWER PIVOT ARM LEAF SPRING
SE-7-8	"RA" NYLON BUMPER (N ^o 73-207-12024)
SE-7-9	"RA" SPRING TENSION ADJUSTING SCREW
SE-7-10	"RA" PIVOT BRACKET RUBBER BUMPER
SE-7-11	"RA" SPRING TENSION BAKELITE BLOCK W/SCREW
SE-7-12	7L-7F NYLINER BUSHING
SE-7-13L	"RALX" SE SWITCH MOUNTING PLATE LH: 1 3/4" x 5" x 1/8"
SE-7-13R	"RALX" S.E. SWITCH MOUNTING PLATE RH: 1 1/4" x 6" x 1/8"
SE-7-14	"RALX" EX-Q EXPLOSION PROOF SWITCH INCLUDES PART N ^o 18
SE-7-15	"RALX" S.E. PICK-UP PLATE SPACERS
SE-7-16	"RALX" S.E. PICK-UP PLATE
SE-7-17	"RAL" S.E. RETRACTING ROD
SE-7-18	"RALX" 3 WIRE CABLE W/1/2" SEALING CONNECTOR
SE-7-19	"RA" SE PIVOT PIN SUPPORT BRACKET W/SCREWS
SE-7-20	PICK-UP BOLT, SPRING & SLEEVE ASS'Y.
SE-7-21	"RALX" S.E. PIVOT ARM & STOP MOUNTING PLATE
SE-7-22	PIVOT ARM TENSION SPRING & PIN ASS'Y.
SE-7-23	"RALX" S.E. RETRACTING PIVOT ARM (SPECIFY LH or RH)
SE-7-24	"RALX" S.E. STOP ANGLE & BUMPER (SPECIFY LH or RH)

NOTE:

WHEN ORDERING SPECIFY PART N^o, HAND & HEIGHT.

LH SHOWN
RH OPPOSITE



"RALX" EXPLOSION PROOF ALUM. SAFETY EDGE

SCALE	DATE 9-26-83
DWG. BY WSP/raz	
NO.	REVISION
DATE	CHK.
CHK. BY E	SE-7



G.A.L. MANUFACTURING CORP.

January 4, 1978

Subject: 6195 Series Type "A" Cast
Hanger Sheave Assembly

TO WHOM IT MAY CONCERN:

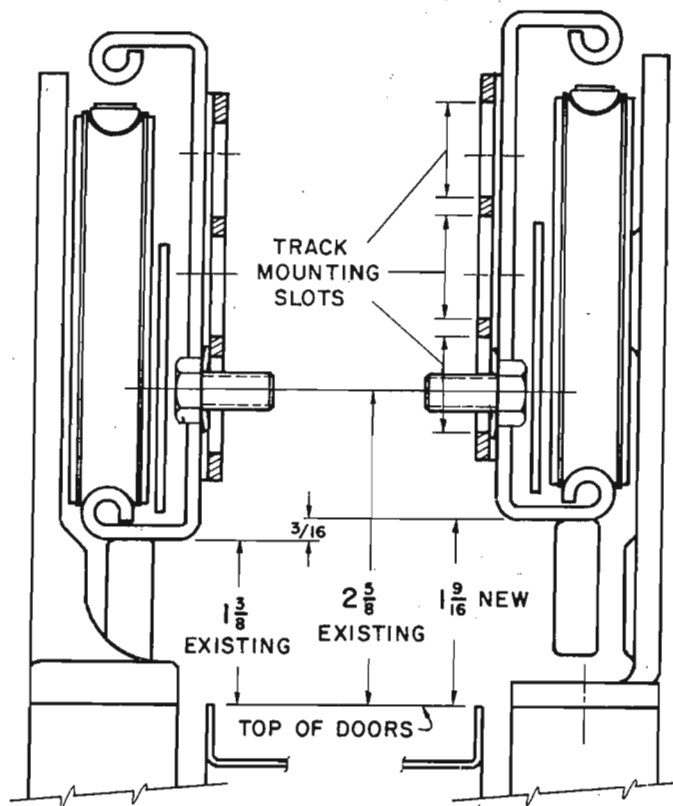
The 6195 Series Type "A" Cast Hanger Sheave Assembly is no longer available. The replacement is M-6410 Series Steel Sheave Assembly.

When a replacement sheave assembly is required, it is strongly recommended that a complete set of hanger sheaves be replaced.

You will have to adjust the hanger track by raising it $\frac{3}{16}$ " to accept the M-6410 series replacement sheave assembly. There is sufficient adjustment in the track.

CAST SHEAVES

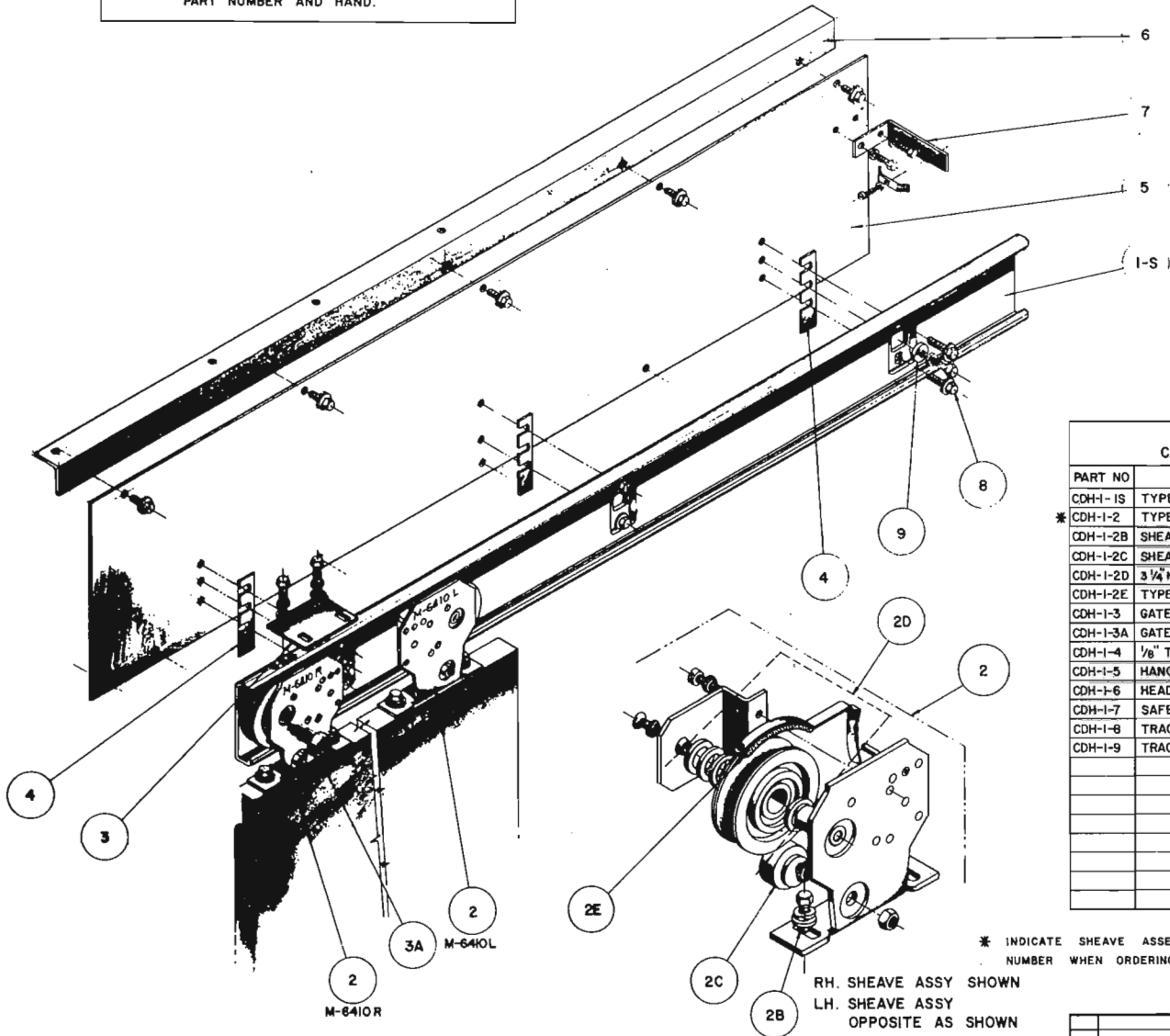
STEEL FORMED SHEAVES



P.S. We recommend that the replaced reusable cast sheaves be stocked for future installation. We can supply replacement roller kits and hanger sheave eccentrics for this assembly.

SV. BUL. 010478

NOTE : WHEN ORDERING SPECIFY DOOR OPENING
WIDTH, AND OR, LENGTH OF TRACK,
PART NUMBER AND HAND.



L H SHOWN
R H OPPOSITE AS SHOWN

TYPE "A" SINGLE SPEED
CAR DOOR HANGER (PARTS LIST)

PART NO	DESCRIPTION
CDH-1S	TYPE "A" SINGLE DOOR TRACK (INCLUDES PARTS 8,9)
* CDH-1-2	TYPE "A" SHEAVE ASSEMBLY (2) REQUIRED
CDH-1-2B	SHEAVE PENDANT BOLT 3/8"-16 X 1 1/2" H.D. & WASHERS
CDH-1-2C	SHEAVE ECCENTRIC ROLLER ASSY
CDH-1-2D	3/4" NH ROLLER KIT (INCLUDE 2E)
CDH-1-2E	TYPE "A" OILER CLEANER
CDH-1-3	GATE SWITCH MOUNTING PLATE
CDH-1-3A	GATE SWITCH ROLLER & BOLT
CDH-1-4	1/8" TRACK SPACER
CDH-1-5	HANGER HEADER PLATE (ADVISE LENGTH & HEIGHT)
CDH-1-6	HEADER OPERATOR SUPPORT ANGLE
CDH-1-7	SAFETY EDGE CABLE SUPPORT BRACKET S/S
CDH-1-8	TRACK MOUNTING SCREWS (5/16"-18 X 5/8 SEMMS)
CDH-1-9	TRACK ADJUSTING ECCENTRIC AND SCREWS

* INDICATE SHEAVE ASSEMBLY
NUMBER WHEN ORDERING.

RH. SHEAVE ASSY SHOWN
LH. SHEAVE ASSY
OPPOSITE AS SHOWN



TYPE "A"
SINGLE SPEED
CAR DOOR HANGER

SCALE		DATE 9-19-74	
I	MIN. SALES	7-78	DWG BY S C. H.
NO.	REVISION	DATE	CHK BY

CDH-1

12 14B 14A

11 10

M-6410 IR

2

14

4

15

15

5

1F

L H SHOWN
R H OPPOSITE AS SHOWN

TYPE "A" TWO SPEED
CAR DOOR HANGER (PART LIST)

PART NO.	DESCRIPTION
CDH-2-1S	TYPE "A" SLOW DOOR TRACK (INCLUDES PARTS 8 & 9)
CDH-2-1F	TYPE "A" FAST DOOR TRACK
CDH-2-2	TYPE "A" SHEAVE ASSY (4 REQ'D L.H. & R.H.)
CDH-2-2B	SHEAVE PENDANT BOLT 3/8-10 X 1 1/2 H. HD & WASHERS
CDH-2-2C	SHEAVE ECCENTRIC ROLLER ASSY
CDH-2-2D	3/4 INH ROLLER KIT (INCLUDE PART CDH-2-2E)
CDH-2-2E	TYPE "A" OILER CLEANER
CDH-2-3	GATE SWITCH MOUNTING PLATE (MO)
CDH-2-3A	GATE SWITCH ROLLER & BOLT
CDH-2-4	1/8 TRACK SPACER
CDH-2-5	END SUPPORT BRACKETS (L.H. & R.H.)
CDH-2-6	TOP SUPPORT BRACKET
CDH-2-7	BOTTOM FAST TRACK SUPPORT ANGLE
CDH-2-8	TRACK MOUNTING SCREWS (7/8-16 X 3/8 SEMMB)
CDH-2-9	TRACK ADJUSTING ECCENTRIC AND SCREWS
CDH-2-10	HANGER HEADER PLATE (ADVISE LENGTH & HEIGHT)
CDH-2-11	HEADER OPERATOR SUPPORT ANGLE
CDH-2-12	GEARING CABLE SLOW DOOR ANCHOR CLAMP
CDH-2-13	GEARING CABLE FAST DOOR CLAMP
CDH-2-14	GEARING BAR ASSY (ADVISE # OF PULLEY PINS)
CDH-2-14A	GEARING PULLEY (NYLON)
CDH-2-14B	GEARING CABLE (ADVISE # DIST. OF PULLEY PINS)
CDH-2-14C	2/SP TENSION PULLEY ASSY
CDH-2-14D	TENSION SPRING
CDH-2-15	SAFETY EDGE CABLE SUPPORT BRACKET 2/SP

2D
2
2E
2C
2B
RH. SHEAVE ASSY SHOWN
L.H. SHEAVE ASSY
OPPOSITE AS SHOWN

* INDICATE SHEAVE ASSEMBLY
NUMBER WHEN ORDERING.

NOTE
FLAT WASHER REQUIRED.

NOTE : WHEN ORDERING SPECIFY DOOR
OPENING WIDTH, AND OR, LENGTH OF
TRACK, PART NUMBER AND HAND.

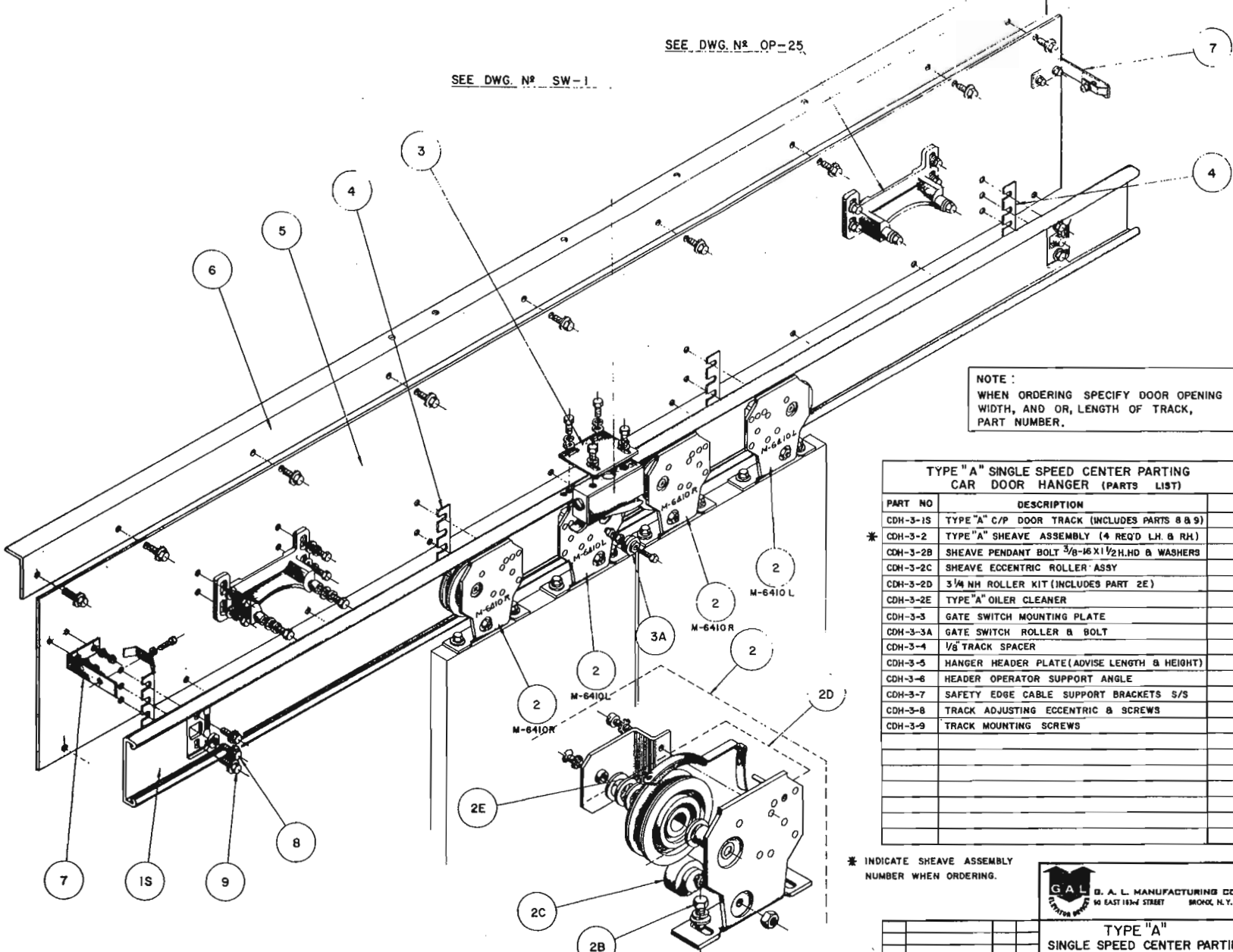


TYPE "A"
TWO SPEED
CAR DOOR HANGER

1	MIN. SALES	7-78	DWG. BY	B. C. H.	SCALE	DATE	10. 3. 1974
NO.	REVISION	DATE	CHK. BY	DATE			CDH-2

SEE DWG. N° OP-25

SEE DWG. N° SW-1



NOTE:
WHEN ORDERING SPECIFY DOOR OPENING
WIDTH, AND OR, LENGTH OF TRACK,
PART NUMBER.

TYPE "A" SINGLE SPEED CENTER PARTING CAR DOOR HANGER (PARTS LIST)	
PART NO	DESCRIPTION
CDH-3-1S	TYPE "A" C/P DOOR TRACK (INCLUDES PARTS 8 & 9)
* CDH-3-2	TYPE "A" SHEAVE ASSEMBLY (4 REQ'D LH. & RH.)
CDH-3-2B	SHEAVE PENDANT BOLT 3/8-16 X 1 1/2 H. HD & WASHERS
CDH-3-2C	SHEAVE ECCENTRIC ROLLER ASSY
CDH-3-2D	3/4 NH ROLLER KIT (INCLUDES PART 2E)
CDH-3-2E	TYPE "A" OILER CLEANER
CDH-3-3	GATE SWITCH MOUNTING PLATE
CDH-3-3A	GATE SWITCH ROLLER & BOLT
CDH-3-4	1/8" TRACK SPACER
CDH-3-5	HANGER HEADER PLATE (ADVISE LENGTH & HEIGHT)
CDH-3-6	HEADER OPERATOR SUPPORT ANGLE
CDH-3-7	SAFETY EDGE CABLE SUPPORT BRACKETS S/S
CDH-3-8	TRACK ADJUSTING ECCENTRIC & SCREWS
CDH-3-9	TRACK MOUNTING SCREWS

* INDICATE SHEAVE ASSEMBLY
NUMBER WHEN ORDERING.



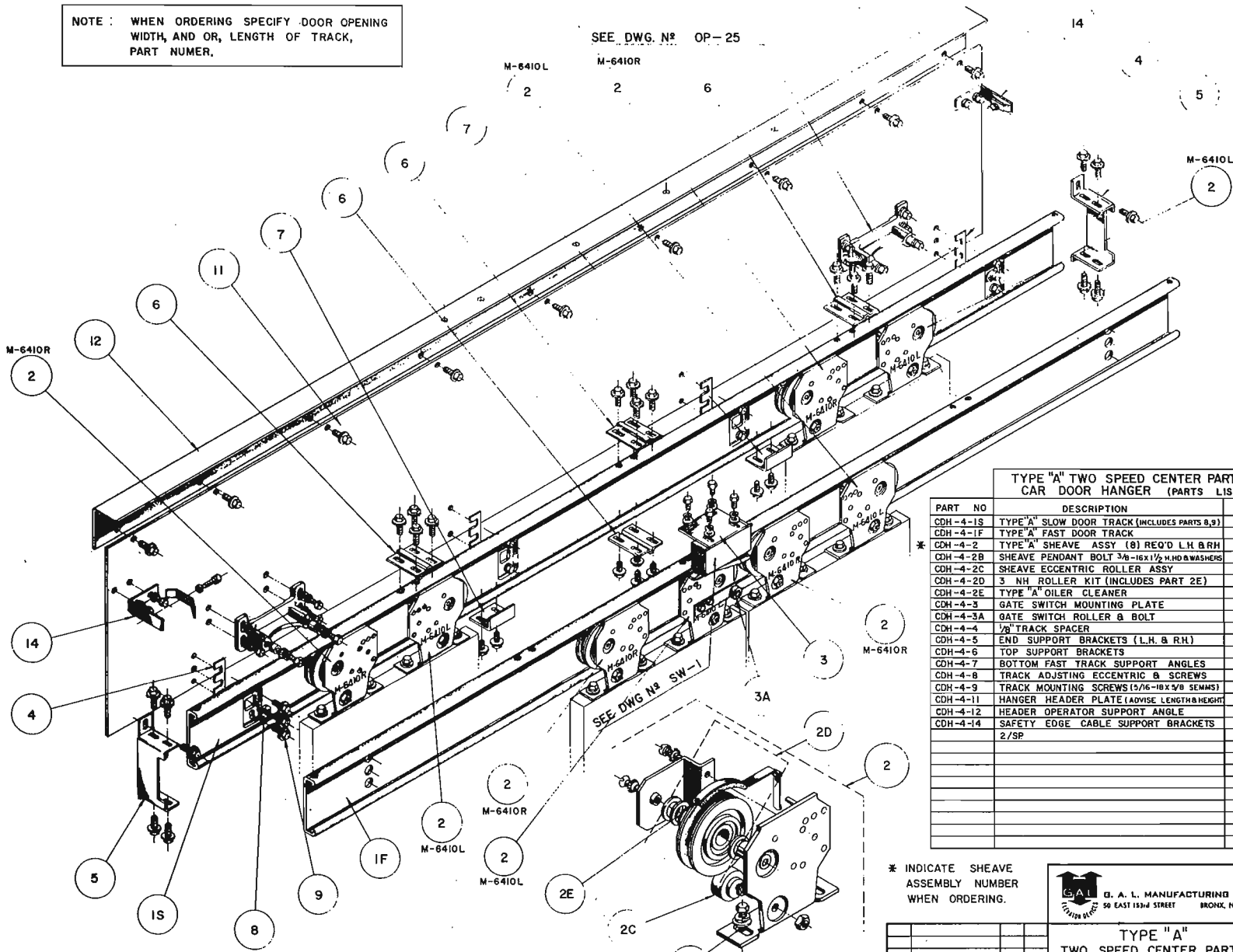
TYPE "A"
SINGLE SPEED CENTER PARTING
CAR DOOR HANGER

RH. SHEAVE ASSY SHOWN
LH. SHEAVE ASSY OPPOSITE
AS SHOWN

SCALE		DATE 9-23-74	
I	MIN. SALES	7-78	DWG. BY S. C. H.
NO.	REVISION	DATE	CHK. BY G. F. D.

NOTE : WHEN ORDERING SPECIFY DOOR OPENING WIDTH, AND OR, LENGTH OF TRACK, PART NUMBER.

SEE DWG. N° OP-25



TYPE "A" TWO SPEED CENTER PARTING CAR DOOR HANGER (PARTS LIST)

PART NO	DESCRIPTION
CDH-4-1S	TYPE "A" SLOW DOOR TRACK (INCLUDES PARTS 8,9)
CDH-4-1F	TYPE "A" FAST DOOR TRACK
* CDH-4-2	TYPE "A" SHEAVE ASSY (8) REQ'D L.H. & R.H.
CDH-4-2B	SHEAVE PENDANT BOLT 3/8-16x1 1/2 H.H.D & WASHERS
CDH-4-2C	SHEAVE ECCENTRIC ROLLER ASSY
CDH-4-2D	3 NH ROLLER KIT (INCLUDES PART 2E)
CDH-4-2E	TYPE "A" OILER CLEANER
CDH-4-3	GATE SWITCH MOUNTING PLATE
CDH-4-3A	GATE SWITCH ROLLER & BOLT
CDH-4-4	1/8" TRACK SPACER
CDH-4-5	END SUPPORT BRACKETS (L.H. & R.H.)
CDH-4-6	TOP SUPPORT BRACKETS
CDH-4-7	BOTTOM FAST TRACK SUPPORT ANGLES
CDH-4-8	TRACK ADJUSTING ECCENTRIC & SCREWS
CDH-4-9	TRACK MOUNTING SCREWS (5/16-18x3/8 SEMHS)
CDH-4-11	HANGER HEADER PLATE (ADJUST LENGTH & HEIGHT)
CDH-4-12	HEADER OPERATOR SUPPORT ANGLE
CDH-4-14	SAFETY EDGE CABLE SUPPORT BRACKETS
	2/5P

* INDICATE SHEAVE ASSEMBLY NUMBER WHEN ORDERING.

G.A.L. G. A. L. MANUFACTURING CORP.
50 EAST 153rd STREET BRONX, N. Y. 10451

TYPE "A"
TWO SPEED CENTER PARTING
CAR DOOR HANGER

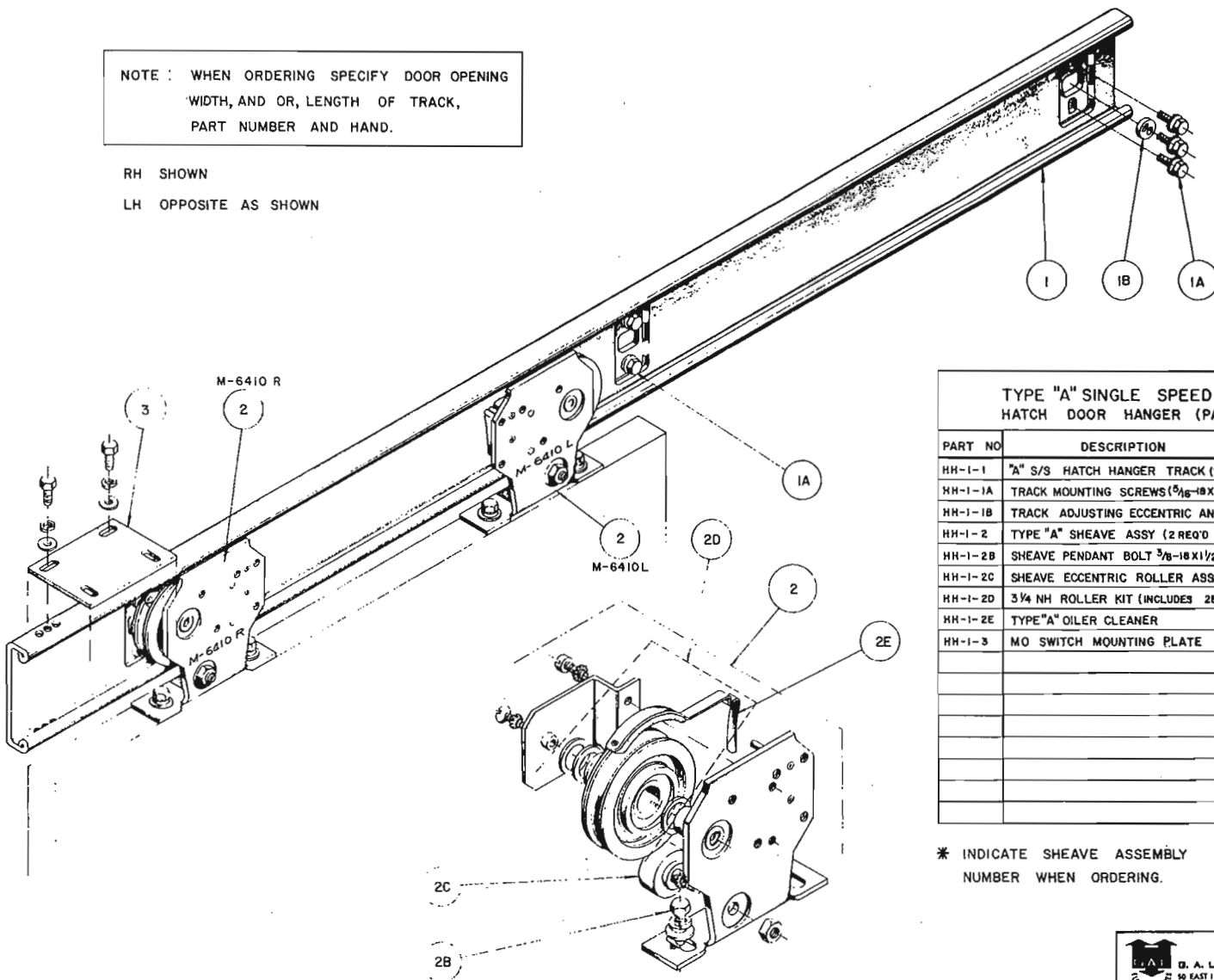
SCALE		DATE 9-23-74	
I	MIN. SALES	7-78	DWG. BY S C H
NO	REVISION	DATE	CHK. BY G F D

2B RH. SHEAVE ASSY SHOWN
LH. SHEAVE ASSY
OPPOSITE AS SHOWN

NOTE : WHEN ORDERING SPECIFY DOOR OPENING WIDTH, AND OR, LENGTH OF TRACK, PART NUMBER AND HAND.

RH SHOWN

LH OPPOSITE AS SHOWN



RH. SHEAVE ASSY SHOWN
LH. SHEAVE ASSY
OPPOSITE AS SHOWN

**TYPE "A" SINGLE SPEED
HATCH DOOR HANGER (PARTS LIST)**

PART NO	DESCRIPTION	
HH-1-1	"A" S/S HATCH HANGER TRACK (INCLUDES 1A, 1B)	
HH-1-1A	TRACK MOUNTING SCREWS (16-18 X 3/8 SEMMS)	
HH-1-1B	TRACK ADJUSTING ECCENTRIC AND SCREWS	
HH-1-2	TYPE "A" SHEAVE ASSY (2 REQ'D L.H. & RH.)	
HH-1-2B	SHEAVE PENDANT BOLT 3/8-18 X 1 1/2 H. HD. & WASHERS	
HH-1-2C	SHEAVE ECCENTRIC ROLLER ASSY	
HH-1-2D	3/4 NH ROLLER KIT (INCLUDES 2E)	
HH-1-2E	TYPE "A" OILER CLEANER	
HH-1-3	MO SWITCH MOUNTING PLATE	

* INDICATE SHEAVE ASSEMBLY NUMBER WHEN ORDERING.

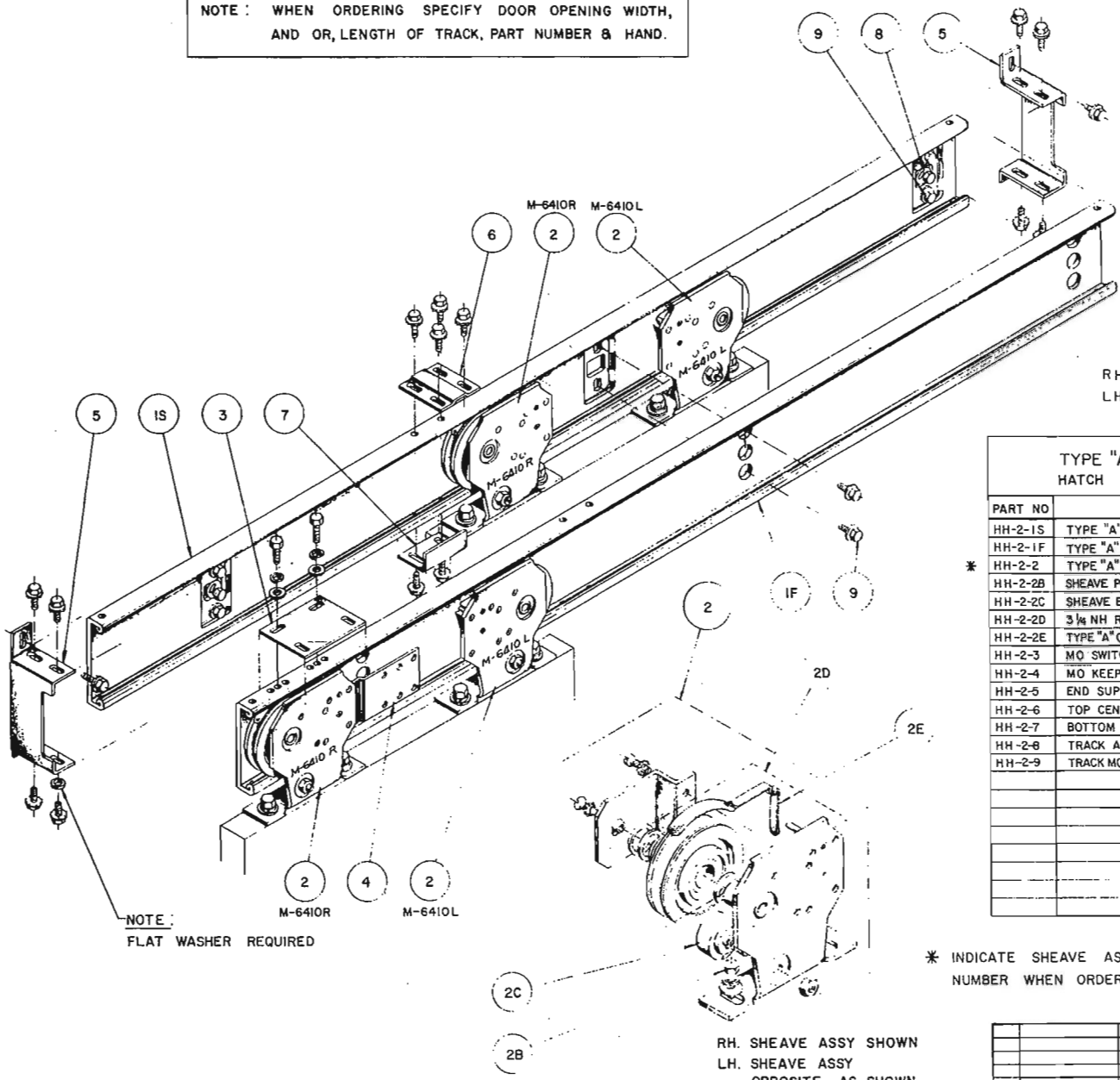


**TYPE "A" SINGLE SPEED
HATCH DOOR HANGER**

1	MIN. SALES	7-78	DRG. BY	S. C. H.
NO.	REVISION	DATE	CHK. BY	G. F. D.

SCALE: DATE FEB. 27 1974
HH-1

NOTE: WHEN ORDERING SPECIFY DOOR OPENING WIDTH,
AND OR, LENGTH OF TRACK, PART NUMBER & HAND.



RH SHOWN
LH OPPOSITE AS SHOWN

TYPE "A" TWO SPEED
HATCH DOOR HANGER (PARTS LIST)

PART NO	DESCRIPTION	
HH-2-1S	TYPE "A" SLOW DOOR TRACK (INCLUDES 8 & 9)	
HH-2-1F	TYPE "A" FAST DOOR TRACK	
HH-2-2	TYPE "A" SHEAVE ASSY (4) REQ'D LH. & RH.	*
HH-2-2B	SHEAVE PENDANT BOLT 3/8-16X1 1/2 H. HD & WASHERS	
HH-2-2C	SHEAVE ECCENTRIC ROLLER ASSY	
HH-2-2D	3/8 NH ROLLER KIT (INCLUDES PART 2E)	
HH-2-2E	TYPE "A" OILER CLEANER	
HH-2-3	MO SWITCH MOUNTING PLATE	
HH-2-4	MO KEEPER MOUNTING PLATE (2/SP)	
HH-2-5	END SUPPORT BRACKETS (LH. & RH.)	
HH-2-6	TOP CENTER SUPPORT BRACKET	
HH-2-7	BOTTOM FAST TRACK SUPPORT ANGLE	
HH-2-8	TRACK ADJUSTING ECCENTRIC AND SCREWS	
HH-2-9	TRACK MOUNTING SCREWS (5/16-18 X 5/8 SEMMS)	

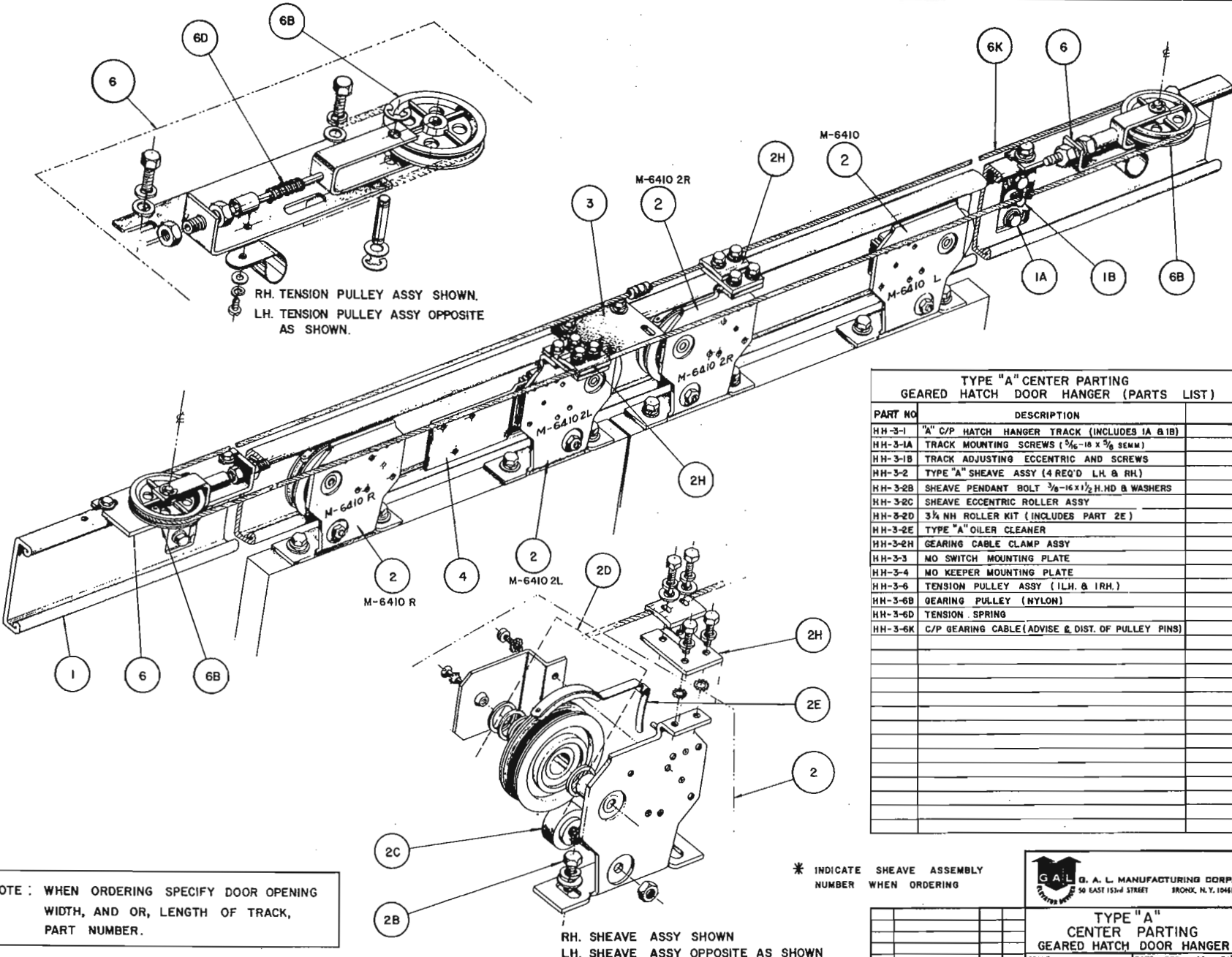
* INDICATE SHEAVE ASSY
NUMBER WHEN ORDERING



TYPE "A"
TWO SPEED
HATCH DOOR HANGER

RH. SHEAVE ASSY SHOWN
LH. SHEAVE ASSY
OPPOSITE AS SHOWN

MIN SALES		7-78	DATE		FEB 25 1974
NO	REVISION	DATE	CHK	DATE	HH-2



RH. TENSION PULLEY ASSY SHOWN.
LH. TENSION PULLEY ASSY OPPOSITE AS SHOWN.

RH. SHEAVE ASSY SHOWN
LH. SHEAVE ASSY OPPOSITE AS SHOWN

**TYPE "A" CENTER PARTING
GEARED HATCH DOOR HANGER (PARTS LIST)**

PART NO	DESCRIPTION
HH-3-1	"A" C/P HATCH HANGER TRACK (INCLUDES IA & IB)
HH-3-1A	TRACK MOUNTING SCREWS (5/16-18 X 3/8 SEMH)
HH-3-1B	TRACK ADJUSTING ECCENTRIC AND SCREWS
HH-3-2	TYPE "A" SHEAVE ASSY (4 REQ'D LH & RH)
HH-3-2B	SHEAVE PENDANT BOLT 3/8-16 X 1/2 H.HD & WASHERS
HH-3-2C	SHEAVE ECCENTRIC ROLLER ASSY
HH-3-2D	3 1/2 NH ROLLER KIT (INCLUDES PART 2E)
HH-3-2E	TYPE "A" OILER CLEANER
HH-3-2H	GEARING CABLE CLAMP ASSY
HH-3-3	MO SWITCH MOUNTING PLATE
HH-3-4	MO KEEPER MOUNTING PLATE
HH-3-6	TENSION PULLEY ASSY (1LH. & 1RH.)
HH-3-6B	GEARING PULLEY (NYLON)
HH-3-6D	TENSION SPRING
HH-3-6K	C/P GEARING CABLE (ADVISE & DIST. OF PULLEY PINS)

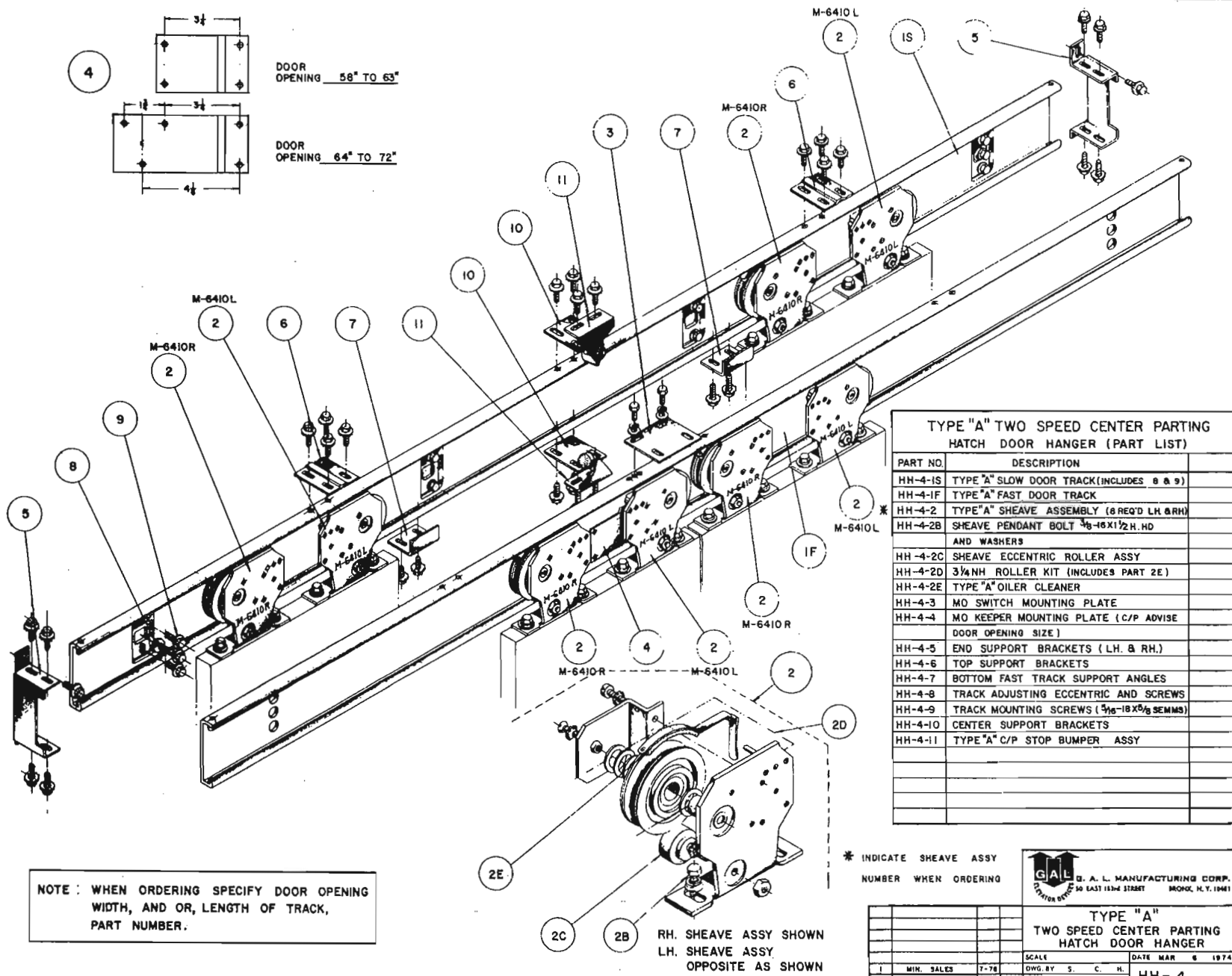
NOTE : WHEN ORDERING SPECIFY DOOR OPENING
WIDTH, AND OR, LENGTH OF TRACK,
PART NUMBER.

* INDICATE SHEAVE ASSEMBLY
NUMBER WHEN ORDERING



**TYPE "A"
CENTER PARTING
GEARED HATCH DOOR HANGER**

I	MIN. SALES	7-78	SCALE	DATE FEB. 20. 74'
NO.	REVISION	DATE	CHK. BY	HH-3

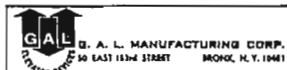


**TYPE "A" TWO SPEED CENTER PARTING
HATCH DOOR HANGER (PART LIST)**

PART NO.	DESCRIPTION
HH-4-1S	TYPE "A" SLOW DOOR TRACK (INCLUDES 8 & 9)
HH-4-1F	TYPE "A" FAST DOOR TRACK
HH-4-2	TYPE "A" SHEAVE ASSEMBLY (8 REQ'D LH & RH)
HH-4-2B	SHEAVE PENDANT BOLT $\frac{3}{8}$ -16X1 1/2 H. HD AND WASHERS
HH-4-2C	SHEAVE ECCENTRIC ROLLER ASSY
HH-4-2D	3/4 NH ROLLER KIT (INCLUDES PART 2E)
HH-4-2E	TYPE "A" OILER CLEANER
HH-4-3	MO SWITCH MOUNTING PLATE
HH-4-4	MO KEEPER MOUNTING PLATE (C/P ADVISE DOOR OPENING SIZE)
HH-4-5	END SUPPORT BRACKETS (LH. & RH.)
HH-4-6	TOP SUPPORT BRACKETS
HH-4-7	BOTTOM FAST TRACK SUPPORT ANGLES
HH-4-8	TRACK ADJUSTING ECCENTRIC AND SCREWS
HH-4-9	TRACK MOUNTING SCREWS ($\frac{5}{16}$ -18X5/8 SEMMS)
HH-4-10	CENTER SUPPORT BRACKETS
HH-4-11	TYPE "A" C/P STOP BUMPER ASSY

NOTE: WHEN ORDERING SPECIFY DOOR OPENING WIDTH, AND OR, LENGTH OF TRACK, PART NUMBER.

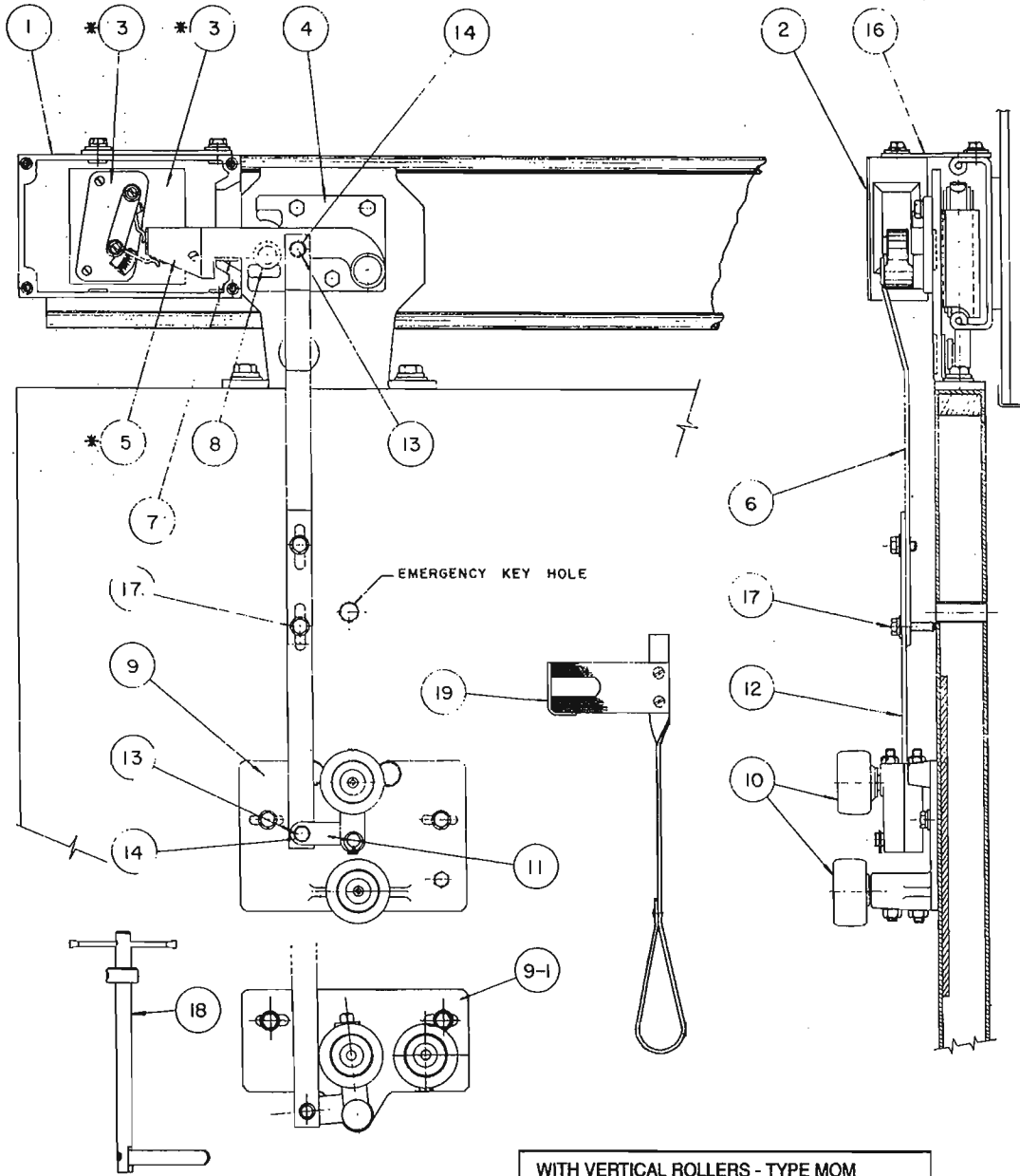
* INDICATE SHEAVE ASSY NUMBER WHEN ORDERING



**TYPE "A"
TWO SPEED CENTER PARTING
HATCH DOOR HANGER**

SCALE		DATE		MAR 6 1974	
1	MIN. SALES	7-78	DWG. BY	S. C. H.	
NO	REVISION	DATE	CHK BY	g f d	HH-4

RH. SHEAVE ASSY SHOWN
LH. SHEAVE ASSY
OPPOSITE AS SHOWN



RIGHT HAND INSTALLATION SHOWN
LEFT HAND SYMMETRICALLY OPPOSITE

**MOM INTERLOCK
(PARTS LIST)**

PART NO.	DESCRIPTION	
INT-1-1	MO SWITCH (INCLUDES PARTS 2 AND 3)	
INT-1-2	COVER & SCREWS	
* INT-1-3	MO CONTACT BASE & INSULATOR	
INT-1-4	MO KEEPER (INCLUDES PARTS 5 TO 8)	
* INT-1-5	MO KEEPER BRIDGING BLOCK	
INT-1-6	MO UPPER LINK (INCLUDES PARTS 13 AND 14)	
INT-1-7	KEEPER STEM BUMPER	
INT-1-8	KEEPER BUMPER	
INT-1-9	MOM RELEASE (INCLUDES PARTS 10 TO 12)	
INT-1-10	MOM ROLLER & SHAFT (2 REQ'D)	
INT-1-11	MOM RELEASE ROCKER	
INT-1-12	MO LOWER LINK (INCLUDES PARTS 13 AND 14)	
INT-1-13	MO LINK SNAP PIN	
INT-1-14	MO LINK NYLINER BUSHING ** 4L-2FF	
* INT-1-15	MOKT CONTACT KIT (INCLUDES PARTS 3 AND 5)	
INT-1-16	MO LOCK MOUNTING PLATE	
INT-1-17	EMERGENCY RELEASE BOLT	
INT-1-18	KMO KEY	
INT-1-9-1	MOH RELEASE (INCLUDES PARTS 10 TO 12)	
INT-1-19	MO JUMPER	

* SOLD AS CONTACT KIT ONLY PART NO. 15

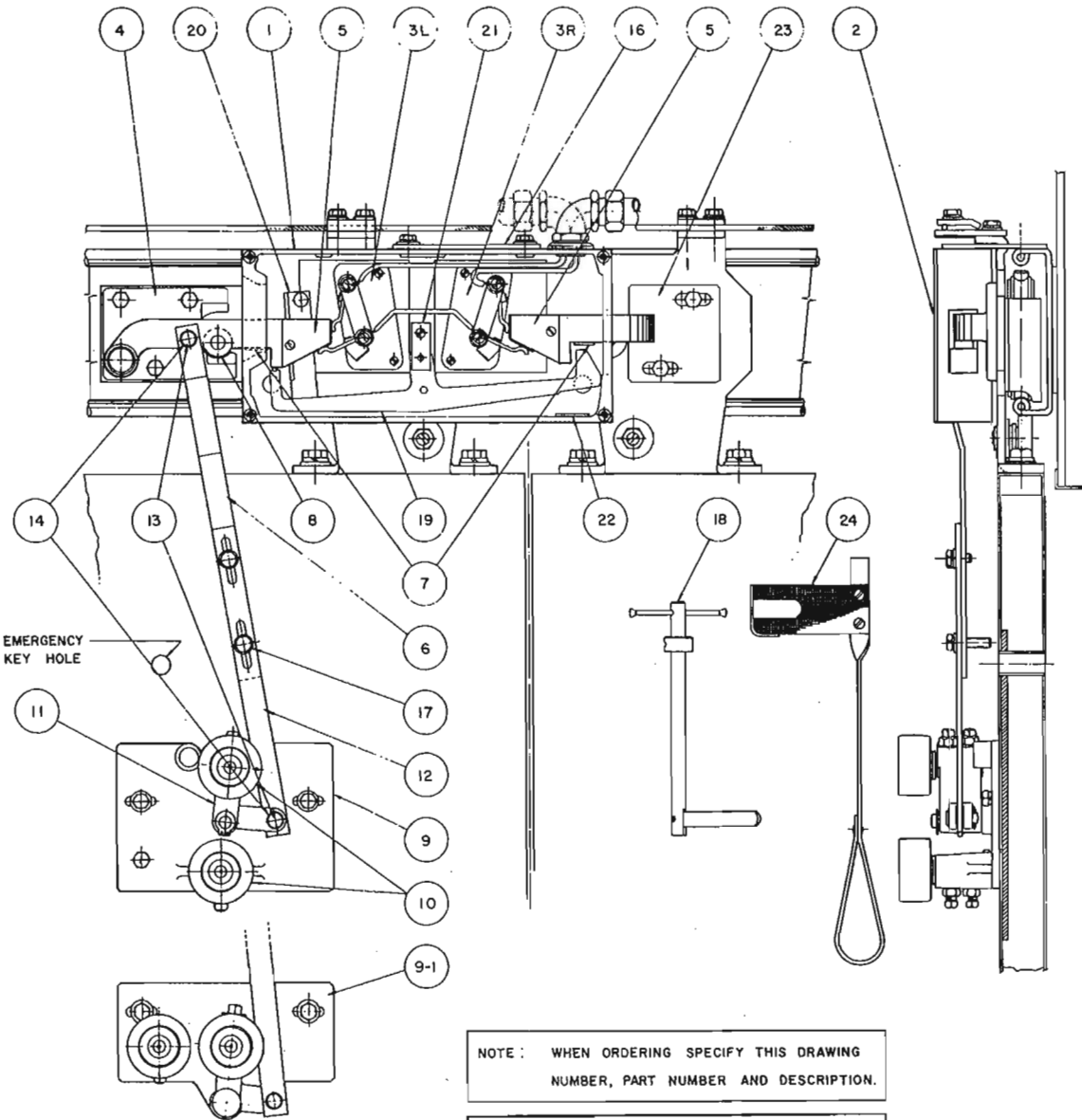
WHEN ORDERING PARTS, GIVE PART NUMBER,
DESCRIPTION, HAND OF INSTALLATION AND THIS DWG. NO.

GAL G. A. L. MANUFACTURING CORP.
10 EAST 134th STREET BRONX, N. Y. 10461

WITH VERTICAL ROLLERS - TYPE MOM
WITH HORIZONTAL ROLLERS - TYPE MOH

MOM/MOH INTERLOCK			
E MIN. SALES	5-7-70	SCALE 1/2	DATE 7-17-73
D REORDER	5-7-70	DWG BY C.M.	
C SEE ECH 228	7-17-73	CHK. BY M. F. D.	
NO.	REVISION	DATE	CHK.

INT - 1 E



G. A. L. STANDARD INSTALLATION SHOWN.

**MOCP INTERLOCK
(PARTS LIST)**

PART NO.	DESCRIPTION	
INT-2-1	MOCP SWITCH (INCLUDES PARTS 2,3L,3R,19,20,21, & 22)	
INT-2-2	COVER & SCREWS WITH INSULATOR	
* INT-2-3L	MO CONTACT BASE & INSULATOR (L. HAND)	
* INT-2-3R	MO CONTACT BASE & INSULATOR (R. HAND)	
* INT-2-4	MO KEEPER (INCLUDES PARTS 5 TO 8)	
INT-2-5	MO KEEPER BRIDGING BLOCK	
INT-2-6	MO UPPER LINK (INCLUDES PARTS 13 AND 14)	
INT-2-7	KEEPER STEM BUMPER	
INT-2-8	KEEPER BUMPER	
INT-2-9	MOM RELEASE (INCLUDES PARTS 10 TO 12)	
INT-2-10	MOM ROLLER & SHAFT (2 REQ'D)	
INT-2-11	MOM RELEASE ROCKER	
INT-2-12	MOM LOWER LINK (INCLUDES PARTS 13 AND 14)	
INT-2-13	MOM LINK SNAP PIN	
INT-2-14	MOM LINK NYLINER BUSHING (# 4L-2FF)	
* INT-2-15	MOCPKT CONTACT KIT (INCLUDES 3L or 3R & 5)	
INT-2-16	MO LOCK MOUNTING PLATE	
INT-2-17	EMERGENCY RELEASE BOLT	
INT-2-18	KMO KEY	
INT-2-19	MOCP ROCKER ARM ASS'Y (INCLUDES PART 20)	
INT-2-20	MOCP ROCKER ARM LIFT UP CAM	
INT-2-21	MOCP ROCKER ARM SUPPORT PLATE	
INT-2-22	SELF-ADHESIVE CORK PAD	
INT-2-23	MOCP STATIONARY KEEPER ASS'Y	
INT-2-9-1	MOH RELEASE (INCLUDES PARTS 10 TO 12)	
INT-2-24	MO JUMPER	

* SOLD AS CONTACT KIT ONLY PART NO. 15.
(ADVISE HAND REQUIRED)

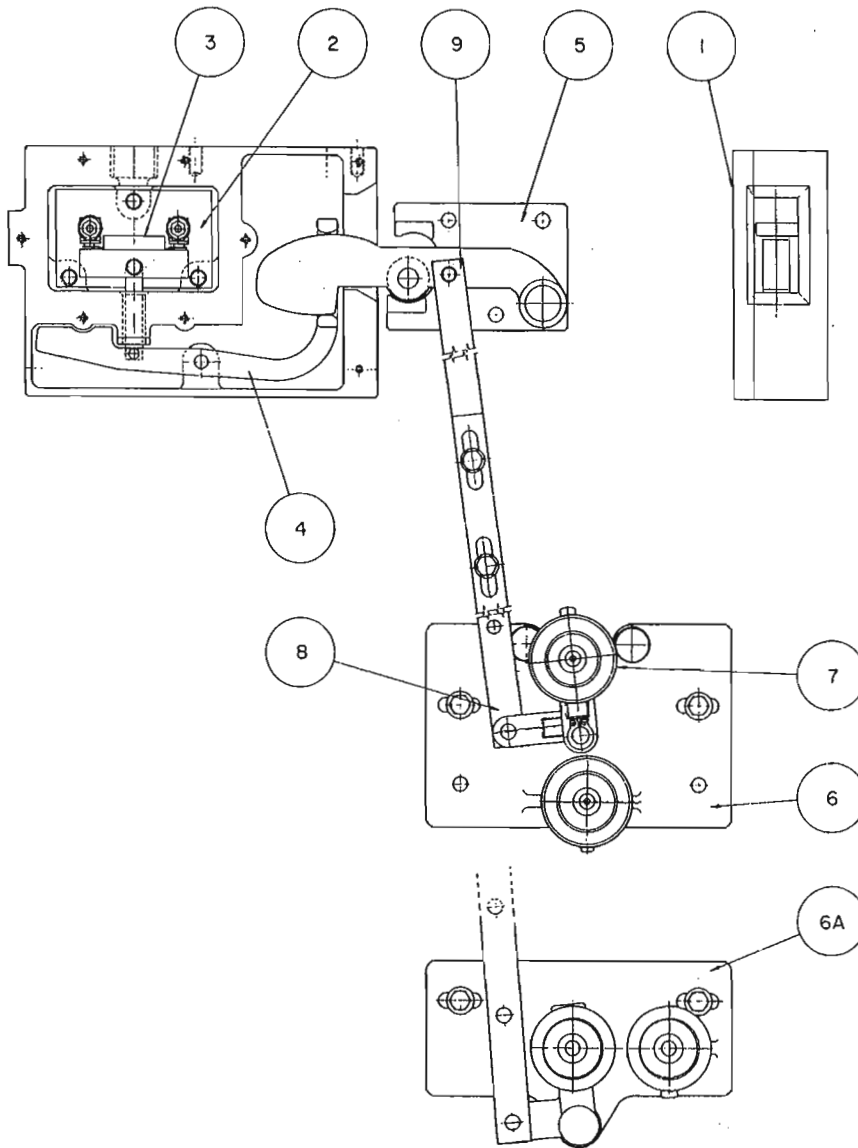
NOTE: WHEN ORDERING SPECIFY THIS DRAWING NUMBER, PART NUMBER AND DESCRIPTION.

WITH VERTICAL ROLLERS - MOCP
WITH HORIZONTAL ROLLERS - MOCPh



MOCP/MOCPh INTERLOCK

SCALE	1 / 2	DATE	11 - 22 - 1978
A	MIN. SALES	7-78	DWG. BY S. C. H.
NO.	REVISION	DATE	CHK. BY G. F. D.
			INT - 2



MO-X INTERLOCK (PARTS LIST)

PART NO	DESCRIPTION	
INT-3A-1	BOX AND COVER	
INT-3A-2	CONTACT BASE AND INSULATOR	
INT-3A-3	BRIDGING BLOCK ASSY WITH GUIDE PIN	
INT-3A-4	ROCKER ARM	
INT-3A-5	KEEPER AND BASE ASSY	
INT-3A-6	MOM ROLLER RELEASE AND BASE ASSY	
INT-3A-6A	MOH ROLLER RELEASE AND BASE ASSY	
INT-3A-7	MO ROLLER AND SHAFT (2)	
INT-3A-8	LOWER LINK WITH SNAP PIN	
INT-3A-9	UPPER LINK WITH SNAP PIN	

RIGHT HAND SHOWN
LEFT HAND OPPOSITE AS SHOWN

NOTE : WHEN ORDERING PARTS, GIVE THIS DRAWING NUMBER, PART NO, DESCRIPTION, HAND OF INSTALLATION.

WITH VERTICAL ROLLERS - MOX
WITH HORIZONTAL ROLLERS - MOXH

FOR USE IN HAZARDOUS LOCATIONS.
CLASS 1 GROUP D



MOX/MOXH INTERLOCK

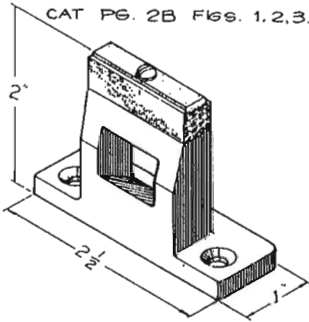
NO	REVISION	DATE	CHK	SCALE	DATE	2	5	76
				OWG. BY	CD			
				CHK BY	G	F	D	
								INT - 3A

SWING DOOR KEEPERS

M-14-2

SURFACE MTD.
INTERLOCK

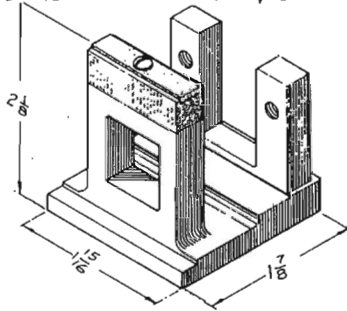
DWG. M-20 FIGURE 3.
CAT. PG. 2B FIGS. 1,2,3.



M-14-20

CONCEALED MTD.
INTERLOCK

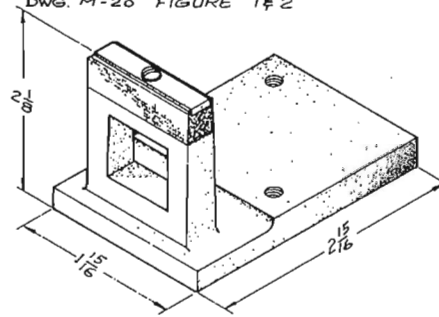
DWG. M-20 FIGURE 1 & 2
DWG. SM-20 FIGURE 1 & 2



M-14-K

CONCEALED MTD.
INTERLOCK
KALAMEIN DOOR

DWG. M-20 FIGURE 1 & 2



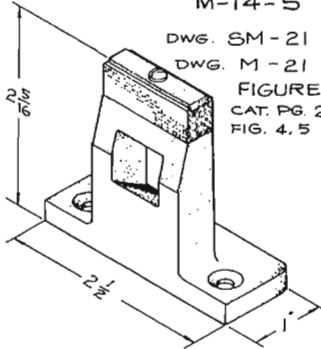
SLIDING DOOR KEEPERS

M-14-5

DWG. SM-21

DWG. M-21

FIGURE 1.
CAT. PG. 2B
FIG. 4, 5

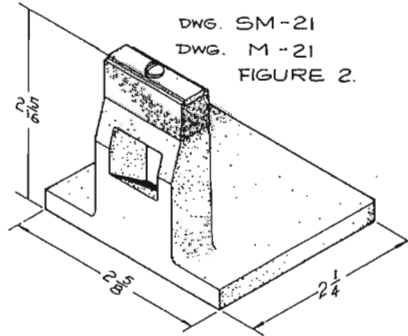


M-14-21-2

DWG. SM-21

DWG. M-21

FIGURE 2.

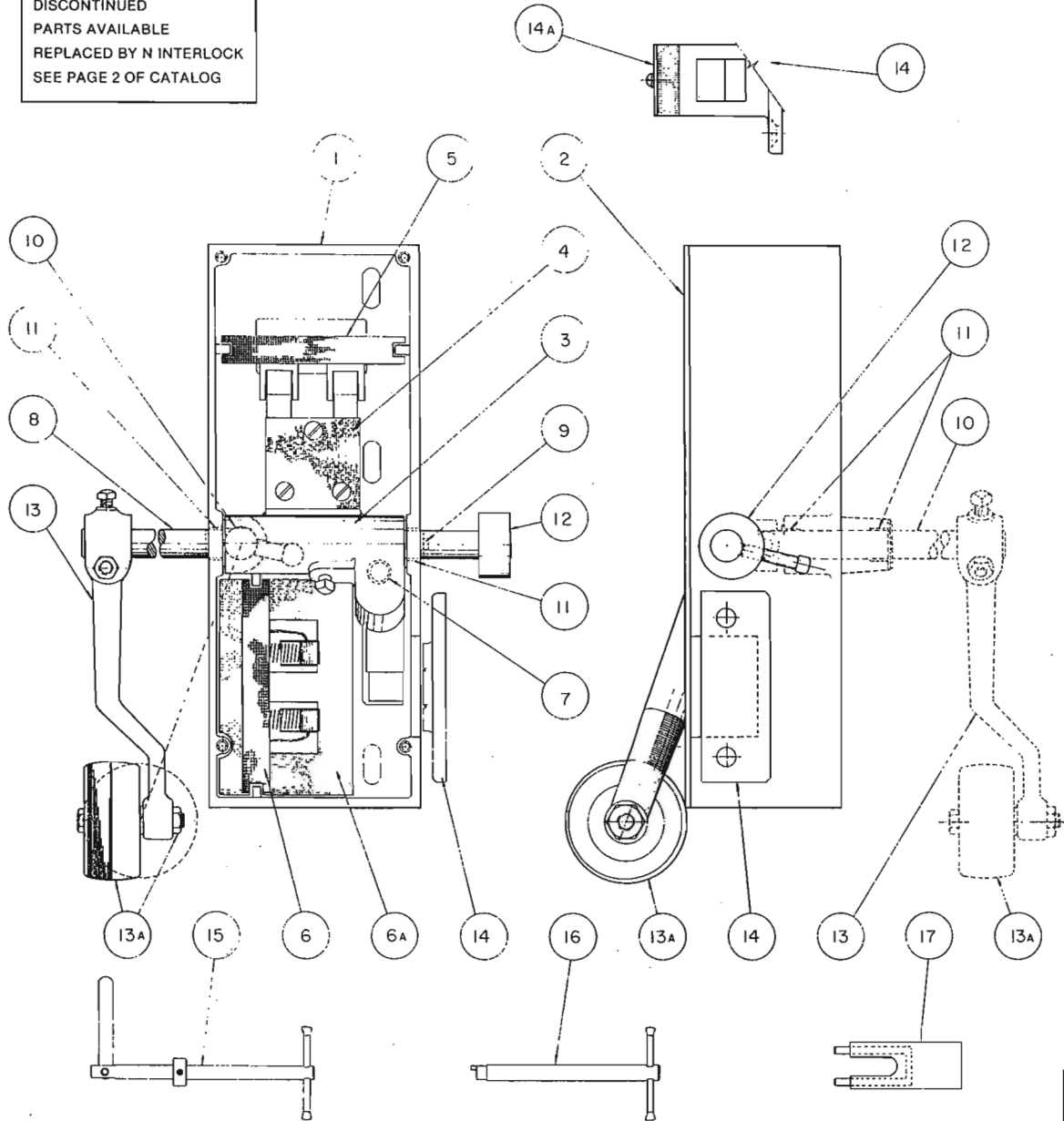


GAL ELEVATOR DIVISION
G. A. L. MANUFACTURING CORP.
 50 EAST 153rd STREET BRONX, N. Y. 10451

TYPE N/M/SM KEEPERS
 (5 STANDARD TYPES)

						SCALE	DATE 11-26-1974
						DWG. BY S C H	INT-4
						CH'K. BY G F D	
NO.	REVISION	DATE	CH'K.				

DISCONTINUED
PARTS AVAILABLE
REPLACED BY N INTERLOCK
SEE PAGE 2 OF CATALOG



FOR MOUNTING ARRANGEMENTS

SEE CATALOG PG 1A DWG M-20
PG 1B DWG M-21
PG 2B

M INTERLOCK
(PARTS LIST)

PART NO.	DESCRIPTION	
INT-5-1	SWITCH ASSEMBLY	
INT-5-2	COVER & SCREWS WITH INSULATOR	
INT-5-3	LOCKING CAM	
INT-5-4	UPPER BRIDGING BLOCK	
INT-5-5	UPPER CONTACT BASE	
INT-5-6	LOWER CONTACT BASE	
INT-5-6A	INSULATOR	
INT-5-7	LOCKING CAM SPRING	
INT-5-8	LOCKING CAM SHAFT (SLIDE DOOR)	
INT-5-9	LOCKING CAM SHAFT (SWING DOOR)	
INT-5-10	BALL PIN SHAFT (SWING DOOR)	
INT-5-11	NYLINER BUSHING (SLIDE DOOR 2 REQ'D) (SWING DOOR 4 REQ'D)	
INT-5-12	EMERGENCY KEY CLAMP (SLIDE DOOR)	
INT-5-13	ROLLER ARM ASSY	
INT-5-13A	ROLLER & BOLT	
INT-5-14	KEEPER ASSY (FOR KEEPER ARRANGEMENT, SEE DWG INT-4)	
INT-5-14A	KEEPER BRIDGING BLOCK	
INT-5-15	KMO KEY (SLIDE DOOR)	
INT-5-16	M KEY (SWING DOOR)	
INT-5-17	M JUMPER	

NOTE: WHEN ORDERING SPECIFY THIS DRAWING NUMBER,
PART NUMBER, DESCRIPTION AND HAND.

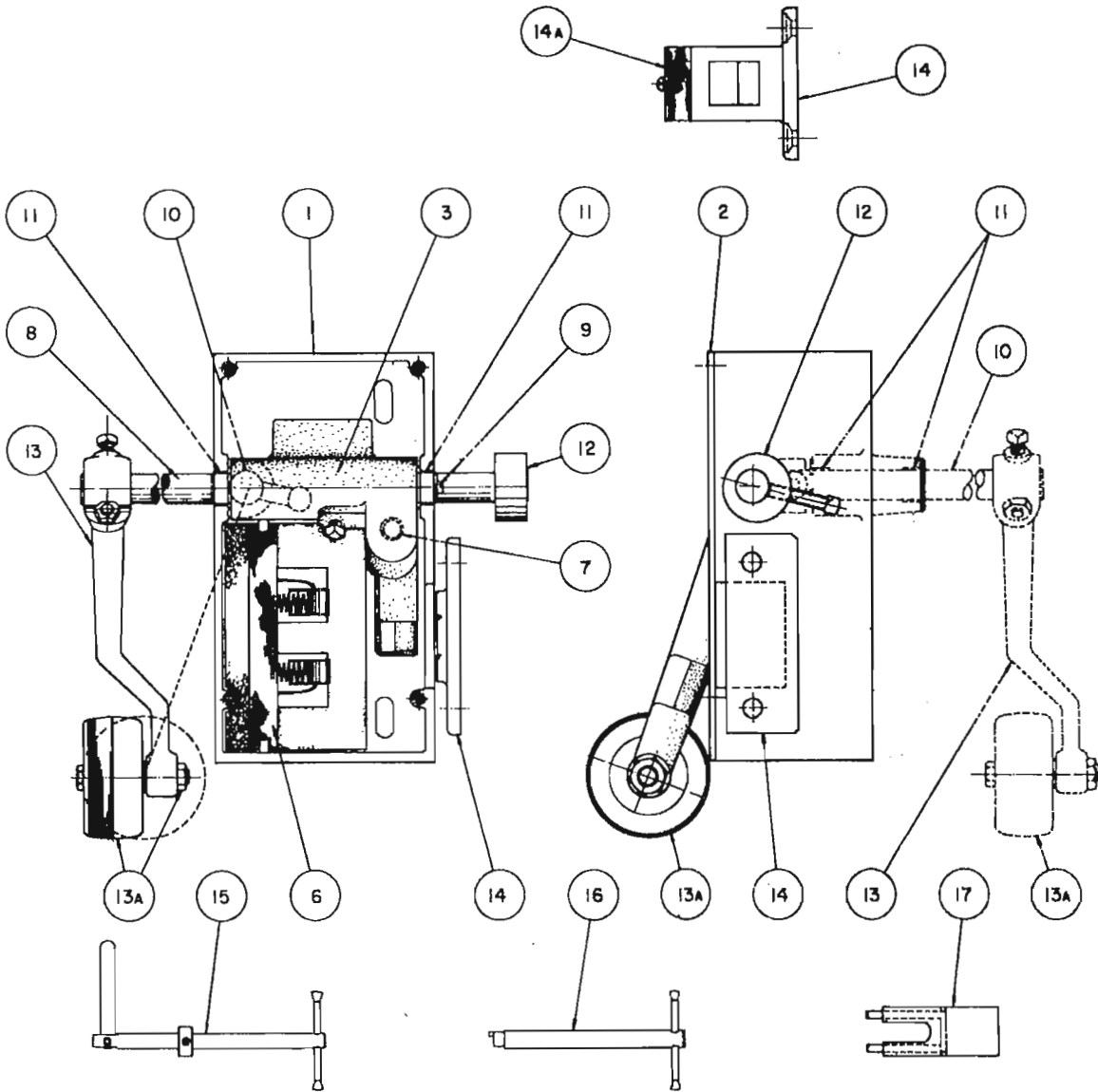
RH SHOWN
LH OPPOSITE AS SHOWN

D. A. L. MANUFACTURING CORP.
30 EAST 153rd STREET
BRONX, N. Y. 10461

M INTERLOCK
(PARTS LIST)

SCALE		DATE 12 - 2 - 1974	
1	MIN. SALES	7-78	DWG BY S C H
NO	REVISION	DATE	CHK BY G F D

INT - 5

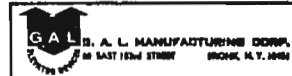


SM LOCK & CONTACT (PARTS LIST)

PART NO	DESCRIPTION	
INT-6-1	SWITCH BOX	
INT-6-2	COVER & SCREWS WITH INSULATOR	
INT-6-3	LOCKING CAM	
INT-6-4	CONTACT BASE WITH INSULATOR	
INT-6-7	LOCKING CAM SPRING	
INT-6-8	LOCKING CAM SHAFT (SLIDE DOOR)	
INT-6-9	LOCKING CAM SHAFT (SWING DOOR)	
INT-6-10	BALL PIN SHAFT (SWING DOOR)	
INT-6-11	NYLINER BUSHING (SLIDE DOOR 2 REQ'D) (SWING DOOR 4 REQ'D)	
INT-6-12	EMERGENCY KEY CLAMP (SLIDE DOOR)	
INT-6-13	ROLLER ARM ASS'Y	
INT-6-13A	ROLLER & BOLT	
INT-6-14	KEEPER ASS'Y (FOR KEEPER ARRANGEMENT, SEE DWG. INT-4)	
INT-6-14A	KEEPER BRIDGING BLOCK	
INT-6-15	KMO KEY (SLIDE DOOR)	
INT-6-16	M KEY (SWING DOOR)	
INT-6-17	M JUMPER	

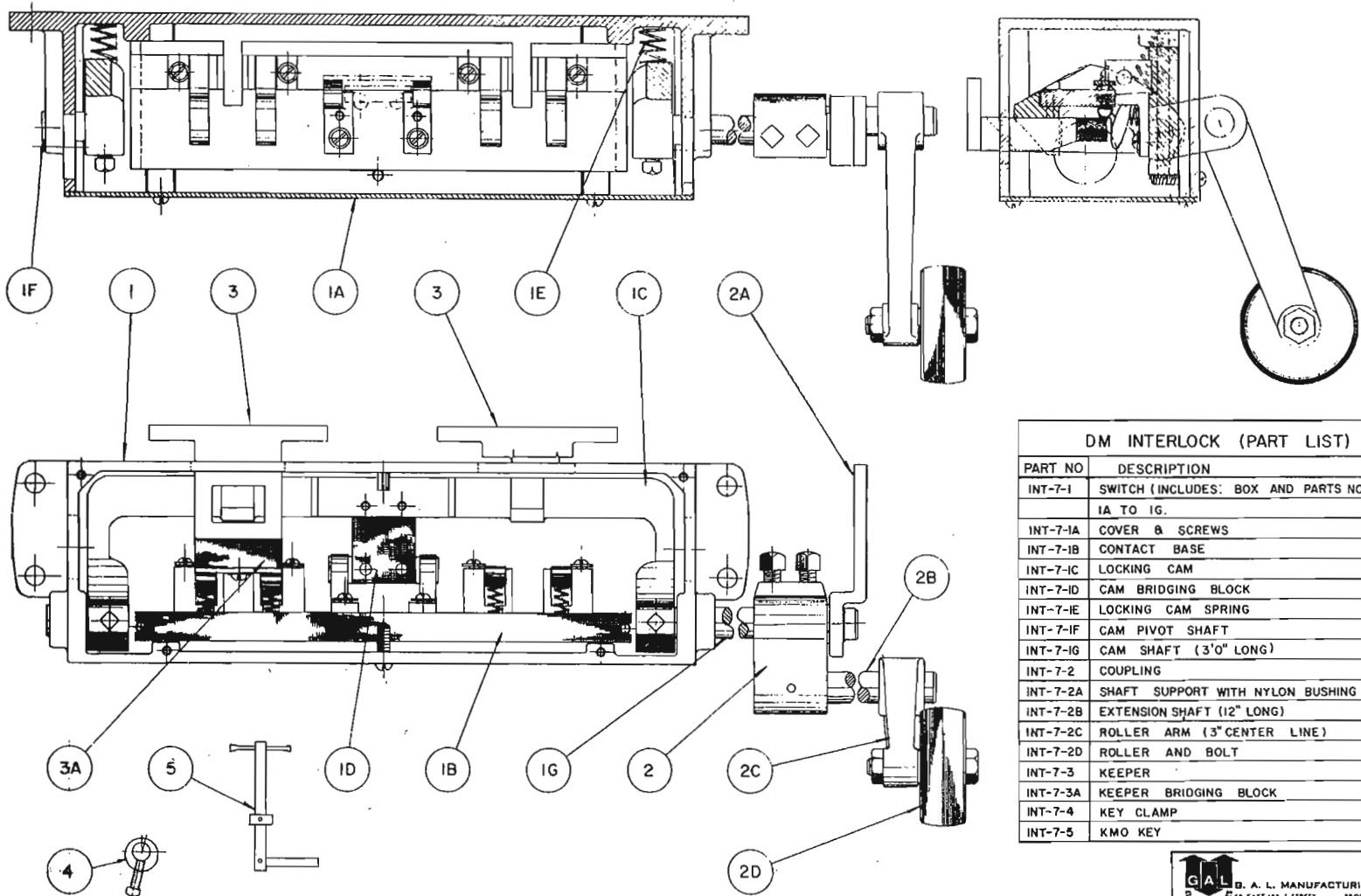
NOTE: WHEN ORDERING SPECIFY THIS DWG. NUMBER,
PART NUMBER, DESCRIPTION AND HAND.

RH SHOWN
LH OPPOSITE AS SHOWN



SM LOCK & CONTACT (PARTS LIST)

NO.		REVISON	DATE	CHK.	SCALE	DATE	18-8-1974
1	M.H. BALL	7-79			DWG. BY	B. C. K.	
					CHK. BY	B. P. D.	INT-6



DM INTERLOCK (PART LIST)

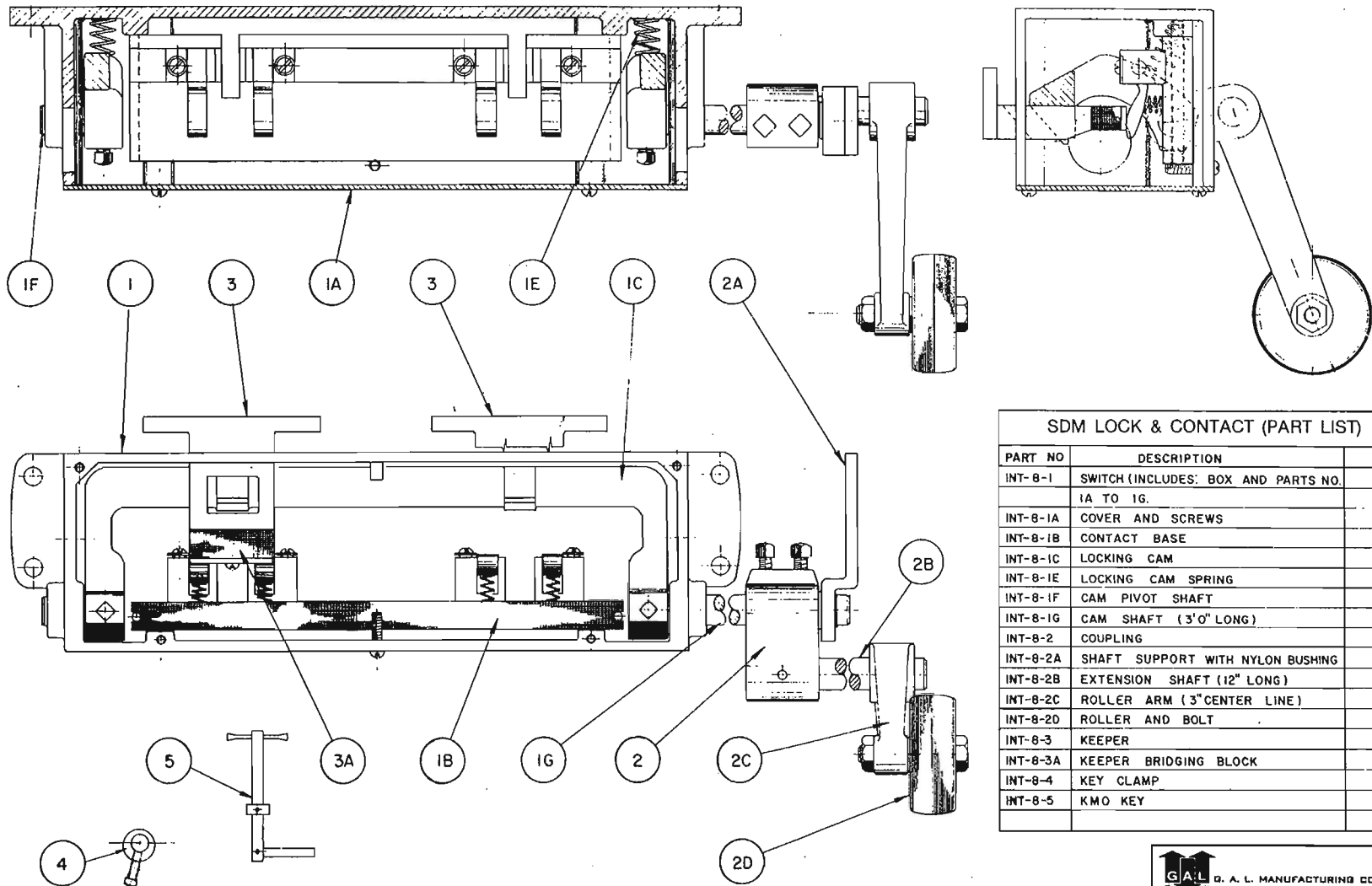
PART NO	DESCRIPTION
INT-7-1	SWITCH (INCLUDES: BOX AND PARTS NO 1A TO 1G.
INT-7-1A	COVER & SCREWS
INT-7-1B	CONTACT BASE
INT-7-1C	LOCKING CAM
INT-7-1D	CAM BRIDGING BLOCK
INT-7-1E	LOCKING CAM SPRING
INT-7-1F	CAM PIVOT SHAFT
INT-7-1G	CAM SHAFT (3'0" LONG)
INT-7-2	COUPLING
INT-7-2A	SHAFT SUPPORT WITH NYLON BUSHING
INT-7-2B	EXTENSION SHAFT (12" LONG)
INT-7-2C	ROLLER ARM (3" CENTER LINE)
INT-7-2D	ROLLER AND BOLT
INT-7-3	KEEPER
INT-7-3A	KEEPER BRIDGING BLOCK
INT-7-4	KEY CLAMP
INT-7-5	KMO KEY

GAL B. A. L. MANUFACTURING CORP.
 50 EAST 153RD STREET BRONX, N. Y. 10451

NOTE: WHEN ORDERING SPECIFY THIS DRAWING NUMBER, PART NUMBER, DESCRIPTION.

DM INTERLOCK (PART LIST)

1	MIR. SALES	7-78	SCALE	FULL	DATE	JAN 3, 74
NO.	REVISION	DATE	CHK.	CHK. BY	G	K
						INT-7



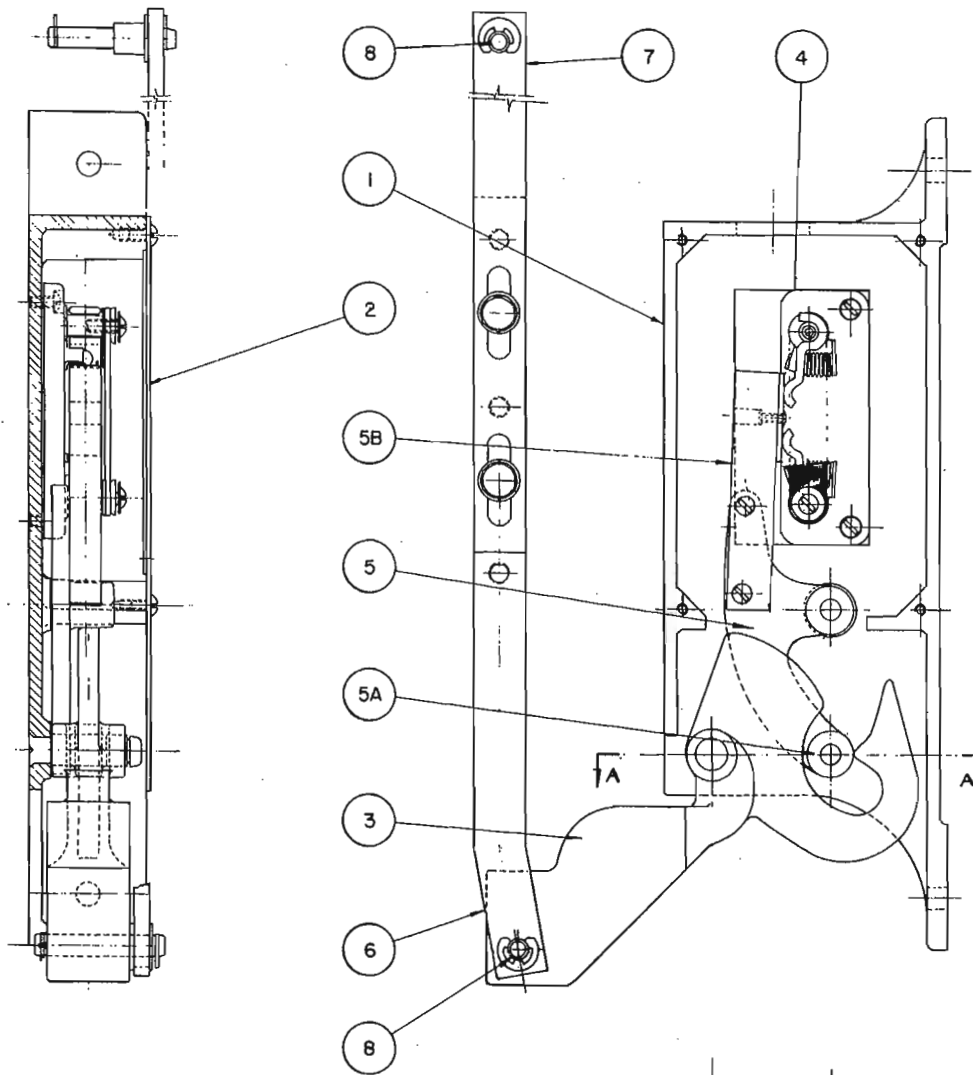
SDM LOCK & CONTACT (PART LIST)

PART NO	DESCRIPTION	
INT-8-1	SWITCH (INCLUDES: BOX AND PARTS NO. 1A TO 1G.	
INT-8-1A	COVER AND SCREWS	
INT-8-1B	CONTACT BASE	
INT-8-1C	LOCKING CAM	
INT-8-1E	LOCKING CAM SPRING	
INT-8-1F	CAM PIVOT SHAFT	
INT-8-1G	CAM SHAFT (3'0" LONG)	
INT-8-2	COUPLING	
INT-8-2A	SHAFT SUPPORT WITH NYLON BUSHING	
INT-8-2B	EXTENSION SHAFT (12" LONG)	
INT-8-2C	ROLLER ARM (3" CENTER LINE)	
INT-8-2D	ROLLER AND BOLT	
INT-8-3	KEEPER	
INT-8-3A	KEEPER BRIDGING BLOCK	
INT-8-4	KEY CLAMP	
INT-8-5	KMO KEY	

GAL G. A. L. MANUFACTURING CORP.
 100 EAST 153rd STREET BRONX, N. Y. 10461

NOTE : WHEN ORDERING SPECIFY THIS DRAWING NUMBER, PART NUMBER, DESCRIPTION.

SDM LOCK & CONTACT (PART LIST)		SCALE	FULL	DATE	JAN 8, 74
1	MIN. SALES	7-78			
NO.	REVISION	DATE	CHK BY	G. P. M.	



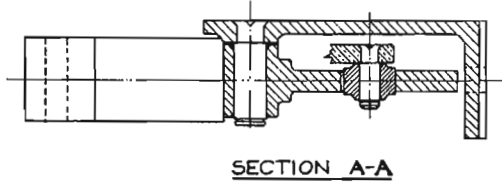
HD INTERLOCK (PART LIST)

PART NO	DESCRIPTION
* INT-9-1	BOX
INT-9-2	COVER WITH INSULATOR AND SCREWS
INT-9-3	ACTIVATING CAM (WEIGHT)
INT-9-4	CONTACT BASE ASSY WITH INSULATOR
* INT-9-5	BRIDGING CAM ASSY (INCLUDES 5A & 5B)
INT-9-5A	BRIDGING CAM ROLLER
INT-9-5B	BRIDGING BLOCK
INT-9-6	LOWER CONNECTING LINK WITH HINGE PIN
INT-9-7	UPPER CONNECTING LINK WITH HINGE PIN
INT-9-8	HINGE PIN

A RACK AND PAWL NON-REVERSING DEVICE MUST BE USED WITH THIS INTERLOCK.

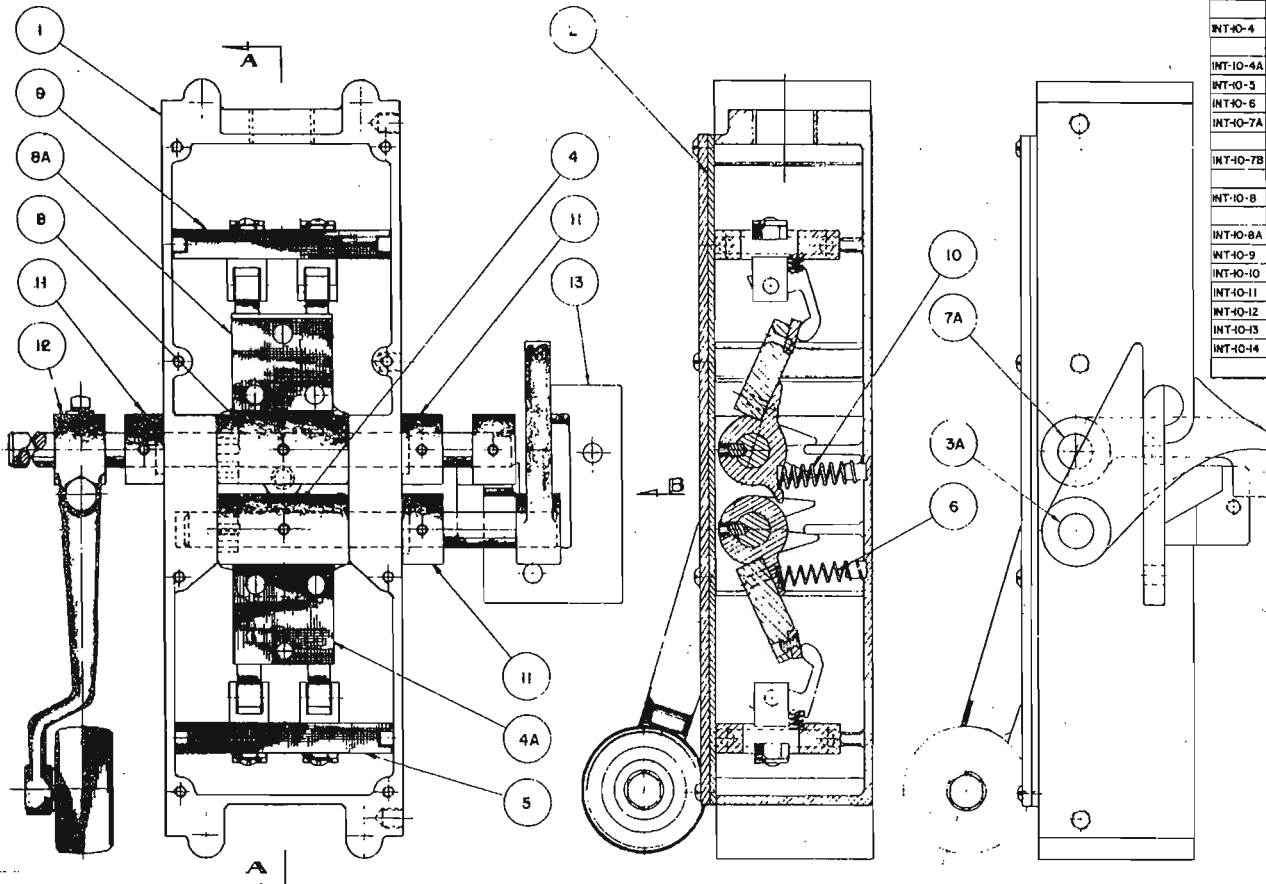
RIGHT HAND SHOWN.
LEFT HAND OPPOSITE AS SHOWN.

*** NOTE :** WHEN ORDERING PARTS, GIVE THIS DRAWING NUMBER, PART NO, AND DESCRIPTION, HAND OF INSTALLATION.



			G. A. L. MANUFACTURING CORP. 10 EAST 153RD STREET BRONX, N. Y. 10461	
HD INTERLOCK		(PART LIST)		
SCALE	FULL	DATE	12 - 10 - 79	
NO.	REVISION	DATE	CHK. BY	INT - 9

DISCONTINUED
PARTS AVAILABLE
SEE NEW DWG INT-18



SECTION A-A

VIEW B

SWING DOOR ARRANGEMENT
REFER TO INSTALLATION DWG L-6320 A

SLIDING DOOR ARRANGEMENT
REFER TO INSTALLATION DWG L-5437 A

W INTERLOCK (PART LIST)	
PART NO	DESCRIPTION
INT-10-1	SWITCH ASSY
INT-10-2	COVER, GASKET AND SCREWS
INT-10-3A	KEEPER ACTUATING FORKED CAM WITH SHAFT (SWING DOOR)
INT-10-3B	KEEPER ACTUATING FORKED CAM WITH SHAFT (SLIDE DOOR)
INT-10-4	KEEPER CONTACT CAM ASSY (INCLUDES W-4A)
INT-10-4A	KEEPER BRIDGING BLOCK
INT-10-5	KEEPER CONTACT BASE ASSY
INT-10-6	KEEPER CONTACT CAM SPRING
INT-10-7A	RETIRING CAM LATCH WITH SHAFT (SWING DOOR)
INT-10-7B	RETIRING CAM LATCH WITH SHAFT (SLIDE DOOR)
INT-10-8	RETIRING CAM CONTACT CAM ASSY (INCLUDES W-B A)
INT-10-8A	RETIRING CAM BRIDGING BLOCK
INT-10-9	RETIRING CAM CONTACT BASE ASSY
INT-10-10	RETIRING CAM CONTACT CAM SPRING
INT-10-11	COLLAR WITH SEAL
INT-10-12	"W" ROLLER ARM ASSY
INT-10-13	SWING DOOR KEEPER (LH. or RH.)
INT-10-14	SLIDE DOOR KEEPER (LH. or RH.)

NOTE: WHEN ORDERING PARTS, GIVE THIS DRAWING NUMBER, PART NO, AND DESCRIPTION, HAND OF INSTALLATION AND WHETHER SLIDING OR SWING DOOR ARRANGEMENT

RIGHT HAND SHOWN
LEFT HAND OPPOSITE AS SHOWN

		DATE DEC. 3, 1973	
		SHAFT FULL	DATE DEC. 3, 1973
		DRG. BY S. C. H.	INT-10
I	MIN SALES	7-78	CHK BY G. F. D.
NO	REVISION	DATE	CHK BY



TYPE W INTERLOCK

OBSOLETE
REPLACED BY INT. - 18

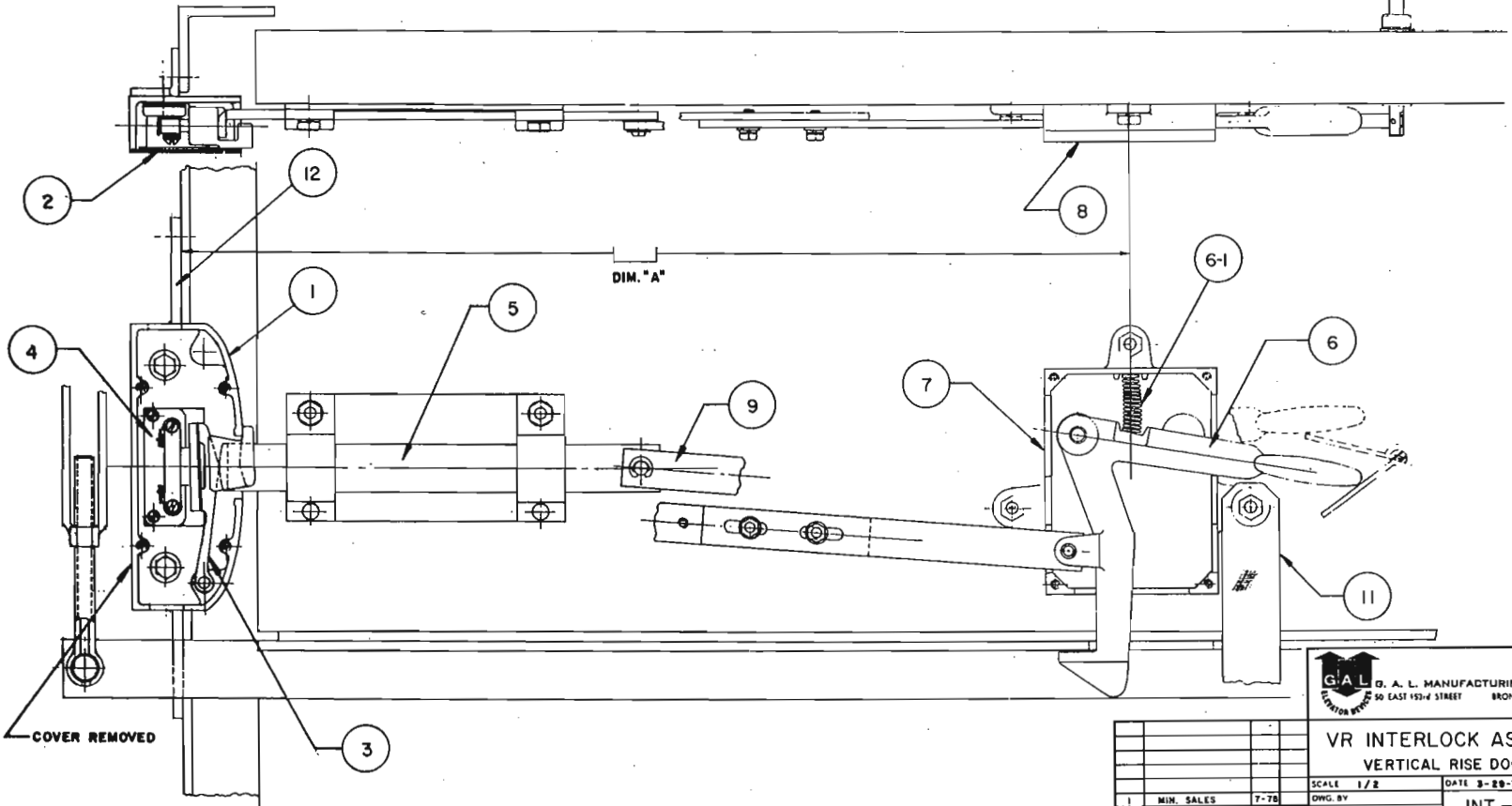
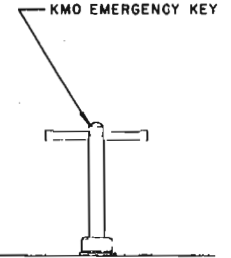
APPROVED

U.L. FILE # SA -595
 N.Y.C. B.S.A # 273-73-SM

RIGHT HAND SHOWN
 LEFT HAND OPPOSITE

NOTE: WHEN ORDERING PARTS,
 SPECIFY HAND, OPENING
 WIDTH AND HEIGHT AND
 DIMENSION "A".

PART NO.	DESCRIPTION
INT-13-1	SWITCH ASS'Y INCLUDES: VR2-VR3-VR4
INT-13-2	COVER ASS'Y
INT-13-3	BRIDGING CAM ASS'Y
INT-13-4	CONTACT KIT (BASE, BRIDGE, & SCREWS)
INT-13-5	LOCKING BOLT & SLIDE ASS'Y
INT-13-6	CENTER LATCH WITH SPRING & LINK SPRING
INT-13-6-1	CENTER LATCH HOUSING
INT-13-7	CENTER LATCH COVER & MTG. SCREWS
INT-13-8	CONNECTING LINK WITH RETAINING RING
INT-13-9	CENTER LATCH ASS'Y (INCLUDES: VR6, VR6-1, VR7, & VR8)
INT-13-11	PULL STRAP (CANVAS)
INT-13-12	MOUNTING ANGLE



GAL G. A. L. MANUFACTURING CORP.
 50 EAST 152nd STREET BRONX, N. Y. 10451

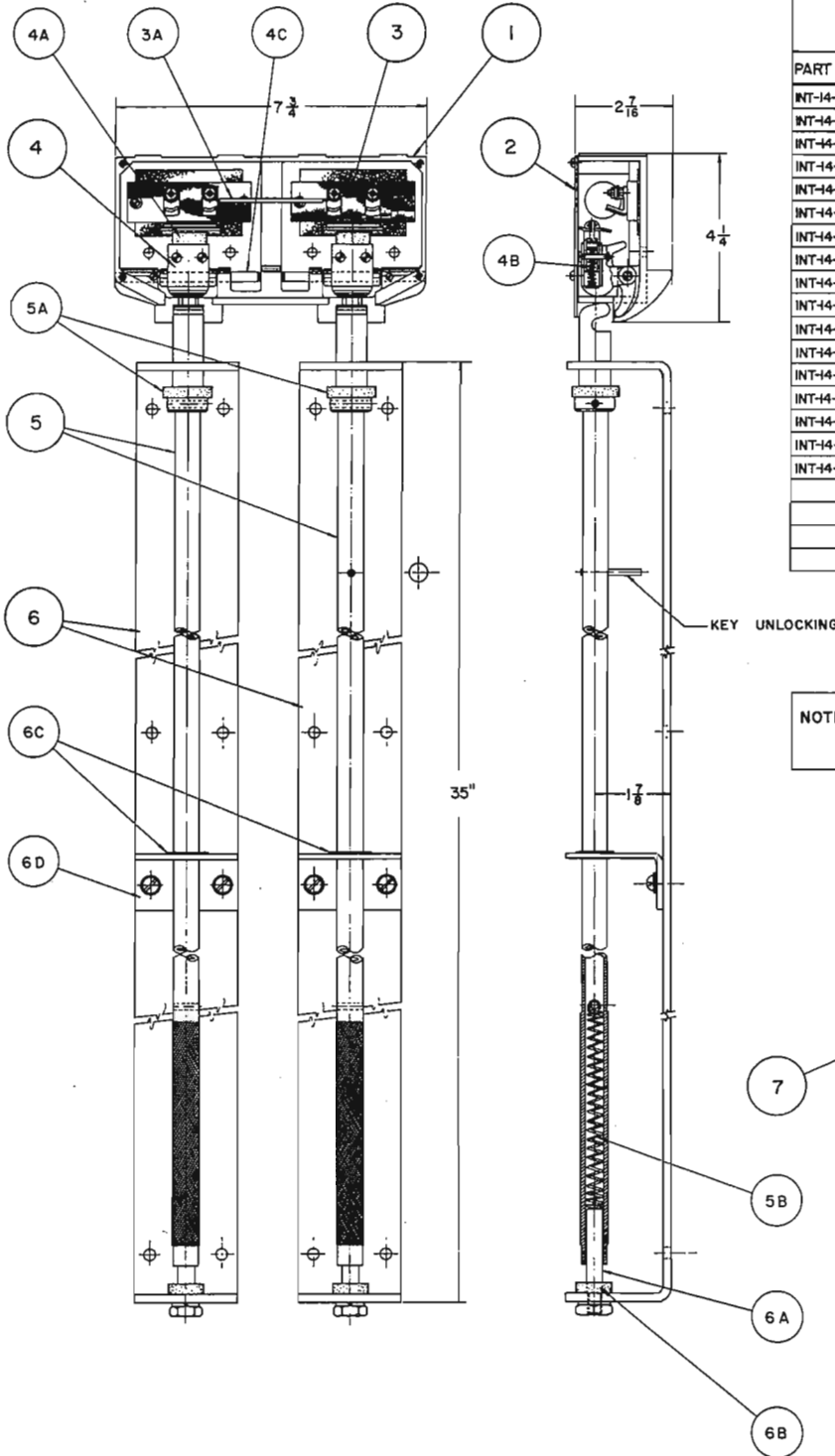
VR INTERLOCK ASS'Y
VERTICAL RISE DOORS

SCALE 1/2		DATE 3-29-73	
1	MIN. SALES	7-78	OWG. BY
NO	REVISION	DATE	CHK. BY

INT - 13

K-5 INTERLOCK WITH OPERATING BARS (PARTS LIST)

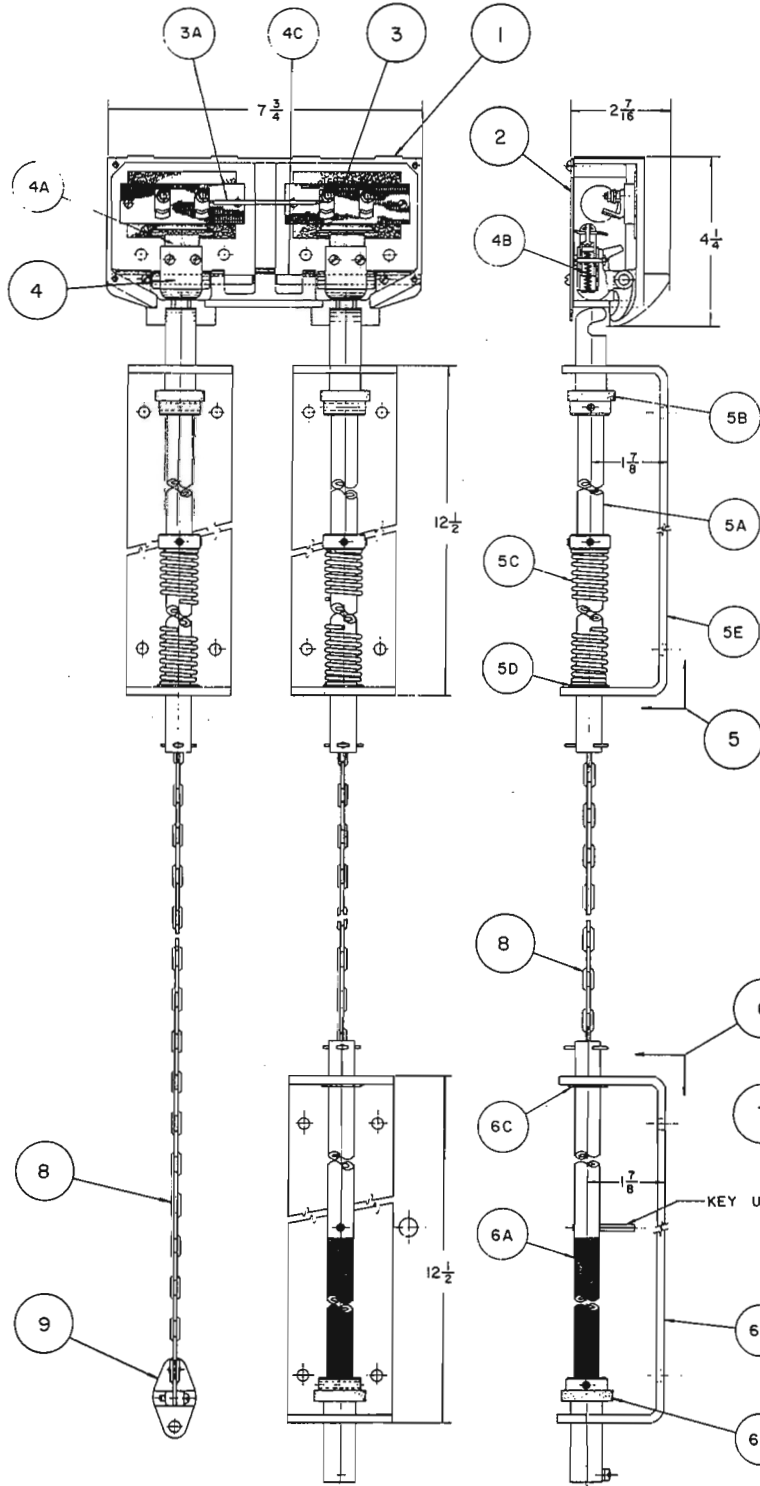
PART NO.	DESCRIPTION
INT-14-1	K-5 SWITCH
INT-14-2	K-5 COVER & SCREWS WITH INSULATOR
INT-14-3	CONTACT BASE WITH INSULATOR
INT-14-3A	JUMPER WIRE
INT-14-4	CONTACT CAM (2)
INT-14-4A	BRIDGING BLOCK
INT-14-4B	BRIDGING BLOCK SPRING
INT-14-4C	HINGE PIN (2)
INT-14-5	K-5 OPERATING BAR
INT-14-5A	UPPER RUBBER BUMPER
INT-14-5B	BAR SPRING
INT-14-6	K-5 BRACKET
INT-14-6A	SPRING GUIDE WITH NUT & LOCK WASHER
INT-14-6B	LOWER RUBBER BUMPER
INT-14-6C	NYLINER BUSHING # 10L2-FF
INT-14-6D	BAR GUIDE SUPPORT BRACKET
INT-14-7	K M O KEY



NOTE : WHEN ORDERING SPECIFY THIS DWG. NO., PART NO., AND DESCRIPTION.

GAL G. A. L. MANUFACTURING CORP.
50 EAST 134th STREET BRONX, N. Y. 10461

K-5 INTERLOCK WITH OPERATING BARS (PARTS LIST)			SCALE 1/2	DATE 1-6-1975
I	MIN. SALES	7-78	DWG. BY S. C. H.	INT-14
NO.	REVISION	DATE	CHK. BY G. F. D.	



K-5 INTERLOCK WITH
CHAIN BOLT & OPERATING BAR
(PARTS LIST)

PART NO.	DESCRIPTION
INT-5-1	K-5 SWITCH
INT-5-2	K-5 COVER B SCREWS WITH INSULATOR
INT-5-3	CONTACT BASE WITH INSULATOR
INT-5-3A	JUMPER WIRE
INT-5-4	CONTACT CAM (2)
INT-5-4A	BRIDGING BLOCK
INT-5-4B	BRIDGING BLOCK SPRING
INT-5-4C	HINGE PIN (2)
INT-5-5	CHAIN BOLT
INT-5-5A	CHAIN BOLT BAR
INT-5-5B	UPPER RUBBER BUMPER (SAME AS 6B)
INT-5-5C	SPRING
INT-5-5D	NYLINER BUSHING #10L2-FF (SAME AS 6C)
INT-5-5E	CHAIN BOLT MOUNTING BRACKET (SAME AS 6D)
INT-5-6	OPERATING BAR
INT-5-6A	OPERATING HANDLE
INT-5-6B	LOWER RUBBER BUMPER (SAME AS 5B)
INT-5-6C	NYLINER BUSHING #10L2-FF (SAME AS 5D)
INT-5-6D	OPERATING BAR MOUNTING BRACKET (SAME AS 5E)
INT-5-7	KMO KEY
INT-5-8	CHAIN
INT-5-9	ANCHOR CLAMP

NOTE : WHEN ORDERING SPECIFY THIS DWG. NO.,
PART NO., AND DESCRIPTION.

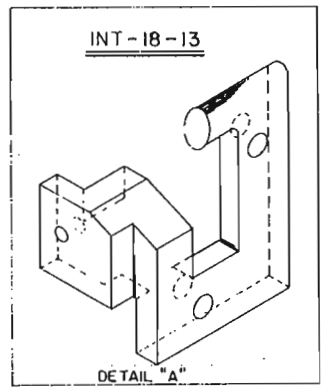
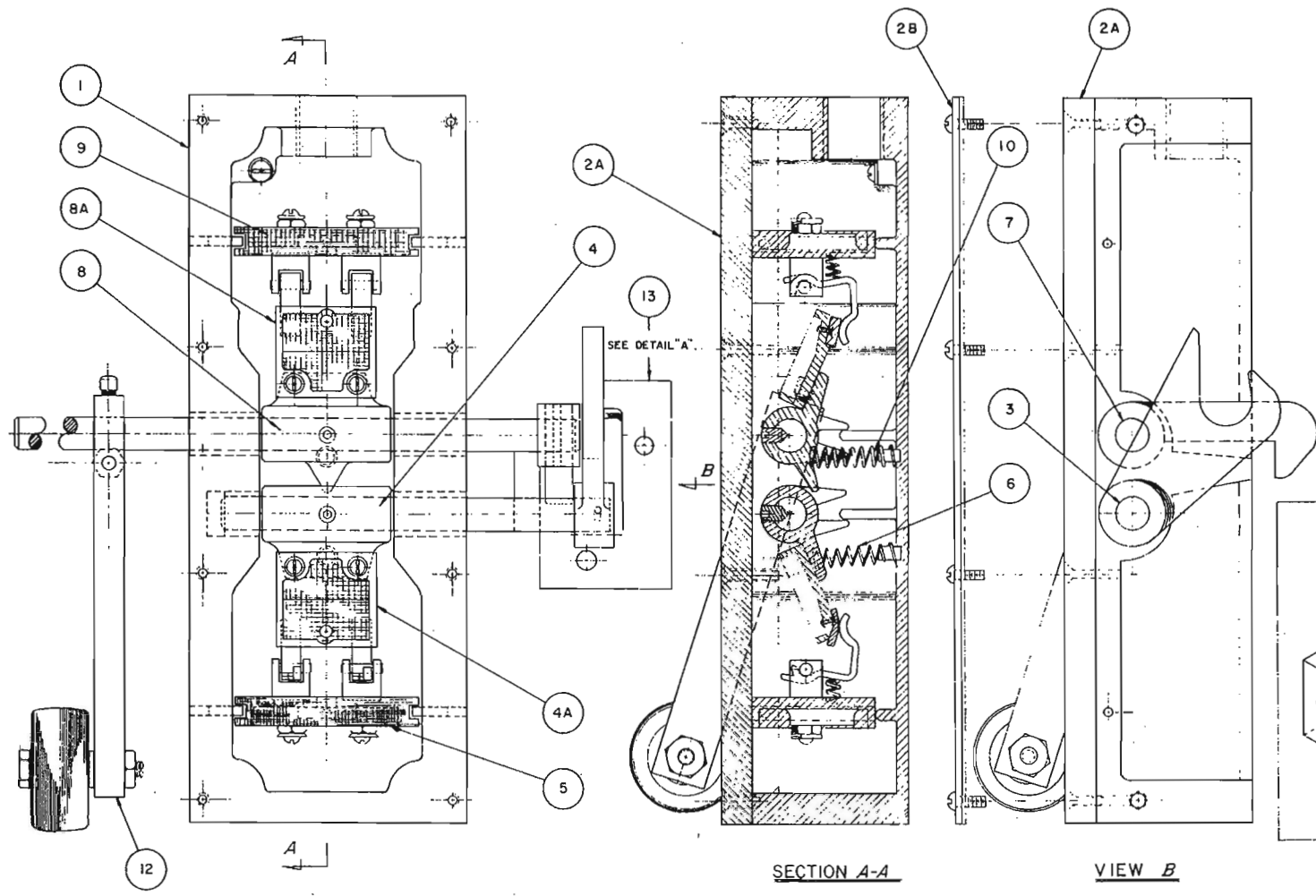


K-5 INTERLOCK WITH
CHAIN BOLT & OPERATING BAR
(PARTS LIST)

SCALE 1/2		DATE 1-6-1975	
I	MIN. SALES	7-78	DWG. BY S. C. H.
NO.	REVISION	DATE	CHK. BY G. F. O.

INT-15

WX & WP INTERLOCK (PART LIST)	
PART NO.	DESCRIPTION
INT-18-1	SWITCH ASS'Y LH. & RH.
INT-18-2A	WX COVER, AND SCREWS
INT-18-2B	WP COVER, GASKET AND SCREWS
INT-18-3	KEEPER ACTUATING FORKED CAM WITH SHAFT LH. & RH.
INT-18-4	KEEPER CONTACT CAM ASS'Y (INCLUDES INT-18-4A)
INT-18-4A	KEEPER BRIDGING BLOCK (LOWER)
INT-18-5	KEEPER CONTACT BASE ASS'Y
INT-18-6	KEEPER CONTACT CAM SPRING
INT-18-7	RETIRING CAM LATCH W/ SHAFT LH. & RH.
INT-18-8	RETIRING CAM CONTACT CAM ASS'Y. (INCLUDES INT-18-8A)
INT-18-8A	RETIRING CAM BRIDGING BLOCK (UPPER)
INT-18-9	RETIRING CAM CONTACT BASE ASS'Y
INT-18-10	RETIRING CAM CONTACT CAM SPRING
INT-18-12	ROLLER ARM ASS'Y
INT-18-13	SWING DOOR KEEPER (L.H. & R.H.)



SECTION A-A

VIEW B

SWING DOOR ARRANGEMENT ONLY
REFER TO INSTALLATION DWG L-6320 D

NOTE : WHEN ORDERING PARTS, GIVE THIS DRAWING NUMBER, PART NO., AND DESCRIPTION, HAND OF INSTALLATION

RIGHT HAND SHOWN
LEFT HAND OPPOSITE



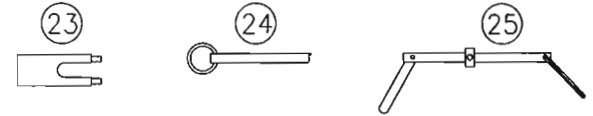
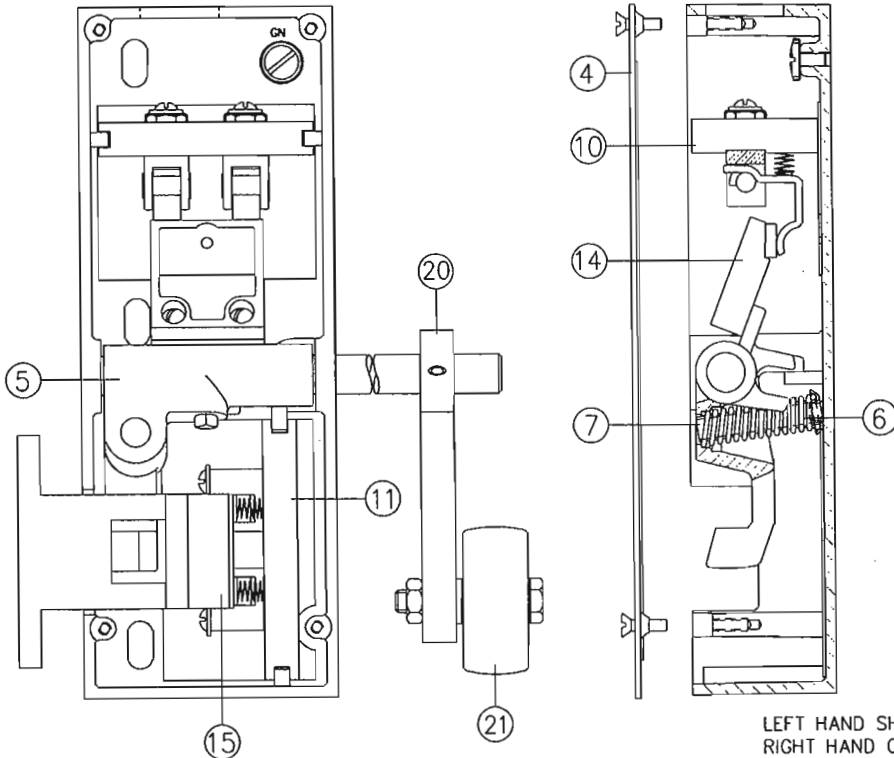
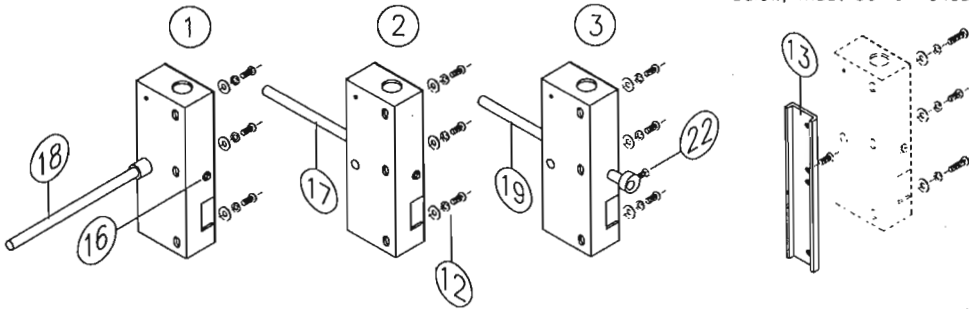
"WP" Interlock (Water-Proof)		SCALE FULL		DATE FEB 11-1985	
"WX" Interlock (Explosion-Proof)		DWG. BY M. ACOSTA		INT-18	
"WX" Interlock (Dust-Proof)		NO.	REVISION	DATE	CHK. BY



IMPORTANT: To select proper interlock arrangement refer to drawing INT22-P2 on page 2A.

SWITCH ASSEMBLY

NOTE: When replacing type "M" interlock, adaptor kit as shown below, must be furnished.

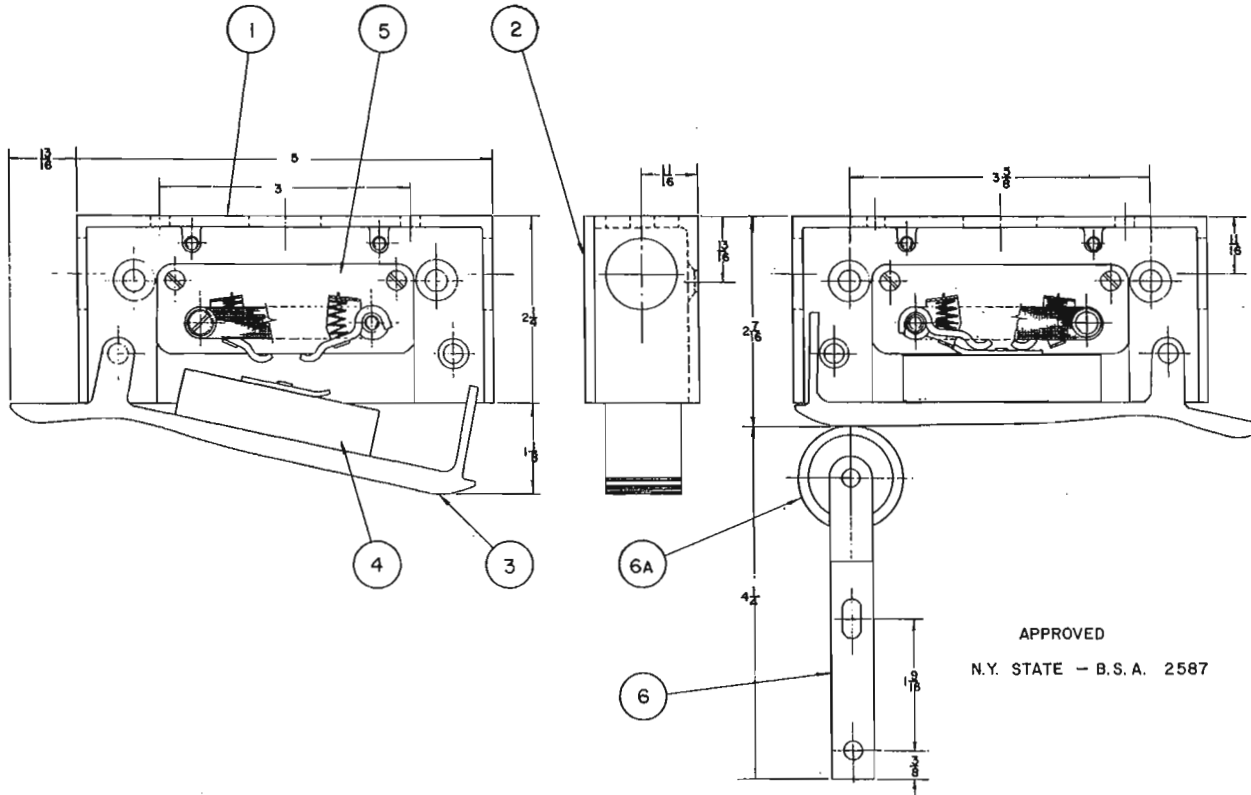


PARTS

ITEM	PART No.	DESCRIPTION
①	INT22-0010R INT22-0010L	SWING DOOR LOCK SWITCH ASSY R.H. SWING DOOR LOCK SWITCH ASSY L.H.
②	INT22-0011R INT22-0011L	SWING DOOR LOCK SWITCH ASSY R.H SWING DOOR LOCK SWITCH ASSY L.H
③	INT22-0012R INT22-0012L	SLIDE DOOR LOCK SWITCH ASSY R.H. SLIDE DOOR LOCK SWITCH ASSY L.H
④	INT22-0015N	COVER WITH INSULATOR
⑤	INT22-0016R INT22-0016L	LOCKING CAM R.H (Includes item 14) LOCKING CAM L.H.
⑥	INT22-0017N	LOCKING CAM SPRING
⑦	INT22-0018N	SPRING RETAINER
⑧	INT22-0019N	UPPER CONTACT KIT (Includes items 10 & 14)
⑨	INT22-0020N	LOWER CONTACT KIT (Includes items 11 & 15)
⑩	INT22-0021N	UPPER CONTACT BASE
⑪	INT22-0022N	LOWER CONTACT BASE
⑫	INT22-0024N	MOUNTING HARDWARE
⑬	INT22-0023R INT22-0023L	ADAPTOR KIT TO REPLACE TYPE "M" INTLK. R.H. ADAPTOR KIT TO REPLACE TYPE "M" INTLK. L.H.
⑭	INT5-0018N	UPPER BRIDGING CONTACT
⑮	INT5-0019N	LOWER BRIDGING CONTACT <small>For keeper arrangement refer to drawing INT-4</small>
⑯	INT5-0020N	SWING DOOR LOCK 3" LG. SHAFT
⑰	INT5-0021N	SWING DOOR LOCK 10" SHAFT
⑱	INT5-0022N	SWING DOOR LOCK BALL PIN SHAFT 10" LG.
⑲	INT5-0023N	SLIDE DOOR LOCK 10" SHAFT
⑳	INT5-0025N	ROLLER ARM 4 1/2 CENTER
㉑	INT5-0027N	ROLLER AND BOLT
㉒	INT5-0028N	SLIDE DOOR LOCK EMERG. UNLOCKING CLAMP
㉓	INT5-0029N	JUMPER
㉔	INT5-0030N	SWING DOOR LOCK EMERGENCY KEY
㉕	INT1H-0034N	SLIDE DOOR LOCK EMERGENCY KEY
TYPE "N" INTERLOCK		DOCUMENT No. INT-22 JAN/97
		REV

RIGHT HAND - OPEN

LEFT HAND - CLOSED



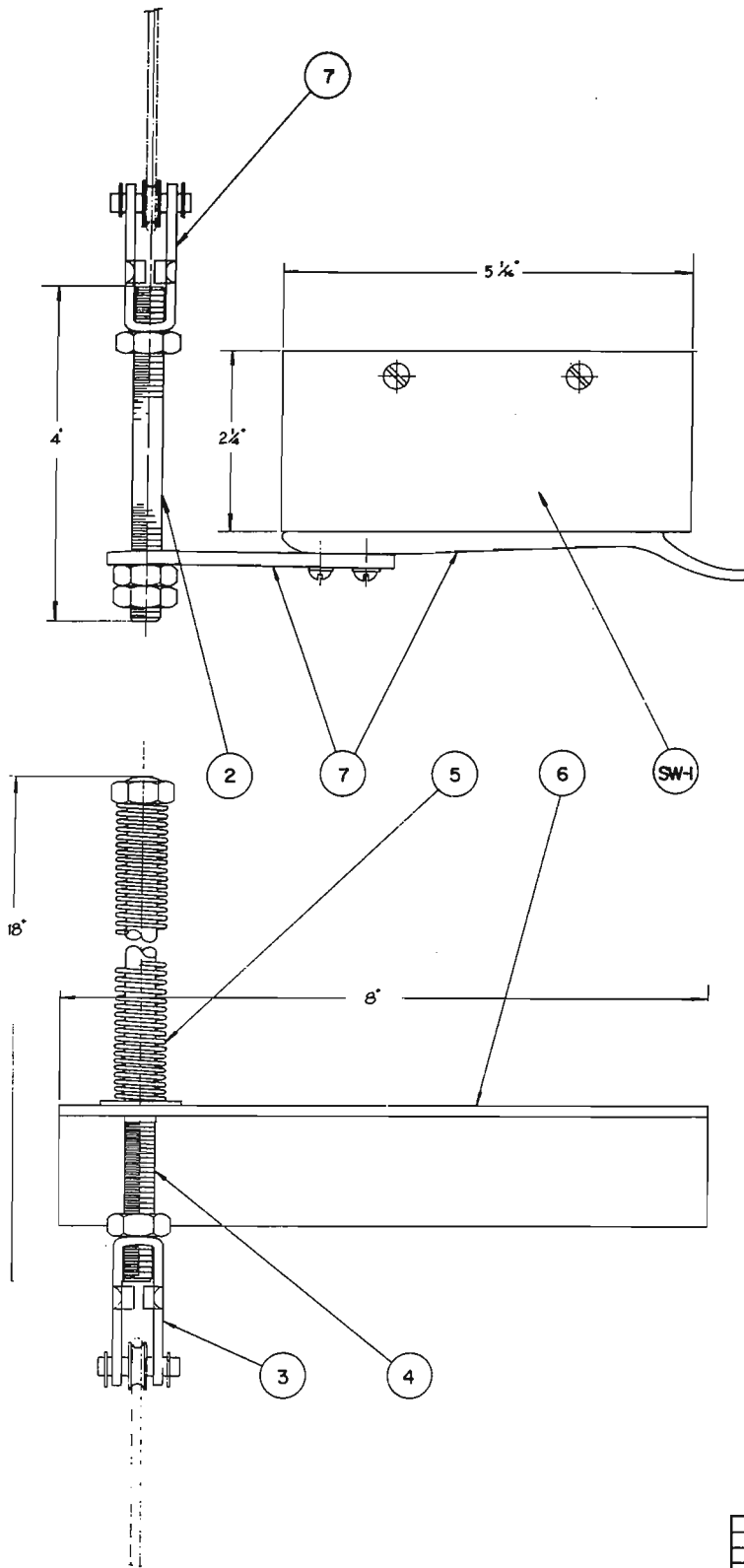
APPROVED
N.Y. STATE - B.S.A. 2587

GATE SWITCH TYPE G (PART LIST)		
PART NO.	DESCRIPTION	
SW-1-1	BOX	
SW-1-2	COVER AND SCREWS WITH	
	INSULATOR	
SW-1-3	OPERATING CAM ASSEMBLY	
	(INCLUDES PART NO. 4)	
SW-1-4	BRIDGING BLOCK ASSEMBLY	
SW-1-5	CONTACT BASE ASSEMBLY WITH	
	INSULATOR	
SW-1-6	ROLLER ARM ASSEMBLY	
	(INCLUDES PART NO. 6A)	
SW-1-6A	ROLLER AND PIN	

NOTE: WHEN ORDERING SPECIFY THIS DRAWING NUMBER, PART NUMBER, AND HAND.



GATE SWITCH TYPE G (PART LIST)				
SCALE FULL		DATE JAN. 15, 1974		
1	MIN. SALES	7-78	DWG. BY S. C. H.	SW - 1
	REVISION	DATE CHK	CHK. BY G. F. P.	



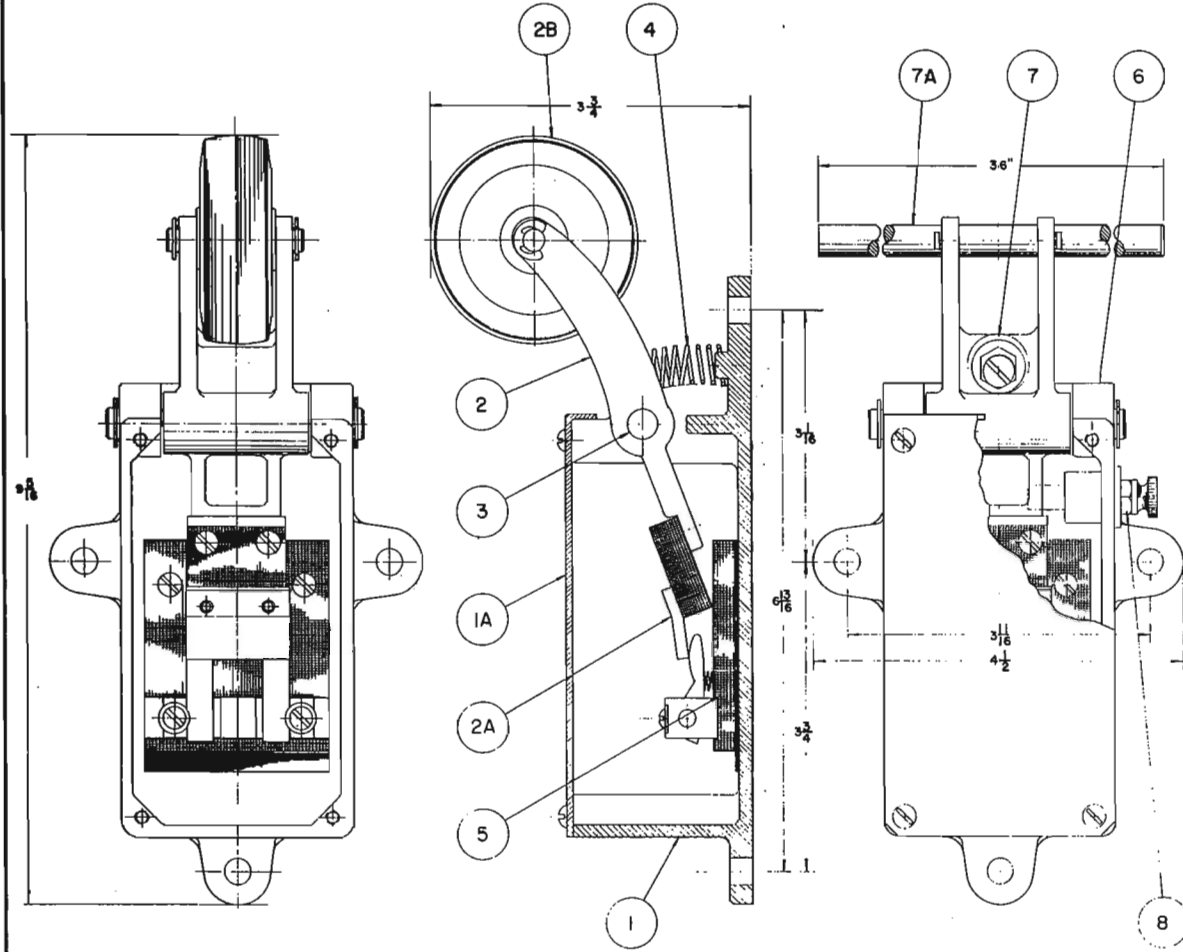
BROKEN CABLE SWITCH (PARTS LIST)	
PART NO.	DESCRIPTION
SW-1	SWITCH (SEE PARTS LIST SW-1)
SW-3-2	SWITCH ADJUSTING ROD 4" LONG
SW-3-3	CABLE CLEVIS WITH PIN AND EYELET
SW-3-4	SPRING ROD 18" LONG
SW-3-5	SPRING 21 1/2" LONG
SW-3-6	SPRING ROD MOUNTING BKT.
SW-3-7	OPERATING CAM & ADJUSTING ROD PLATE

NOTE :
WHEN ORDERING SPECIFY THIS DRAWING
NUMBER, PART NUMBER, DESCRIPTION.

G.A.L.
D. A. L. MANUFACTURING CORP.
50 EAST 154th STREET
BRONX, N.Y. 10461

BROKEN CABLE SWITCH
(PARTS LIST)

SCALE	FULL	DATE	MAY 21 1974
NO.	REVISION	DATE	CHK BY G. R. D.
1	MIN. SALES	7-78	OWG. BY S. C. H.
			SW - 3



LS HATCHWAY LIMIT SWITCH

SLACK CABLE SWITCH

L, S LIMIT SWITCH AND SLACK CABLE SWITCH (PARTS LIST)

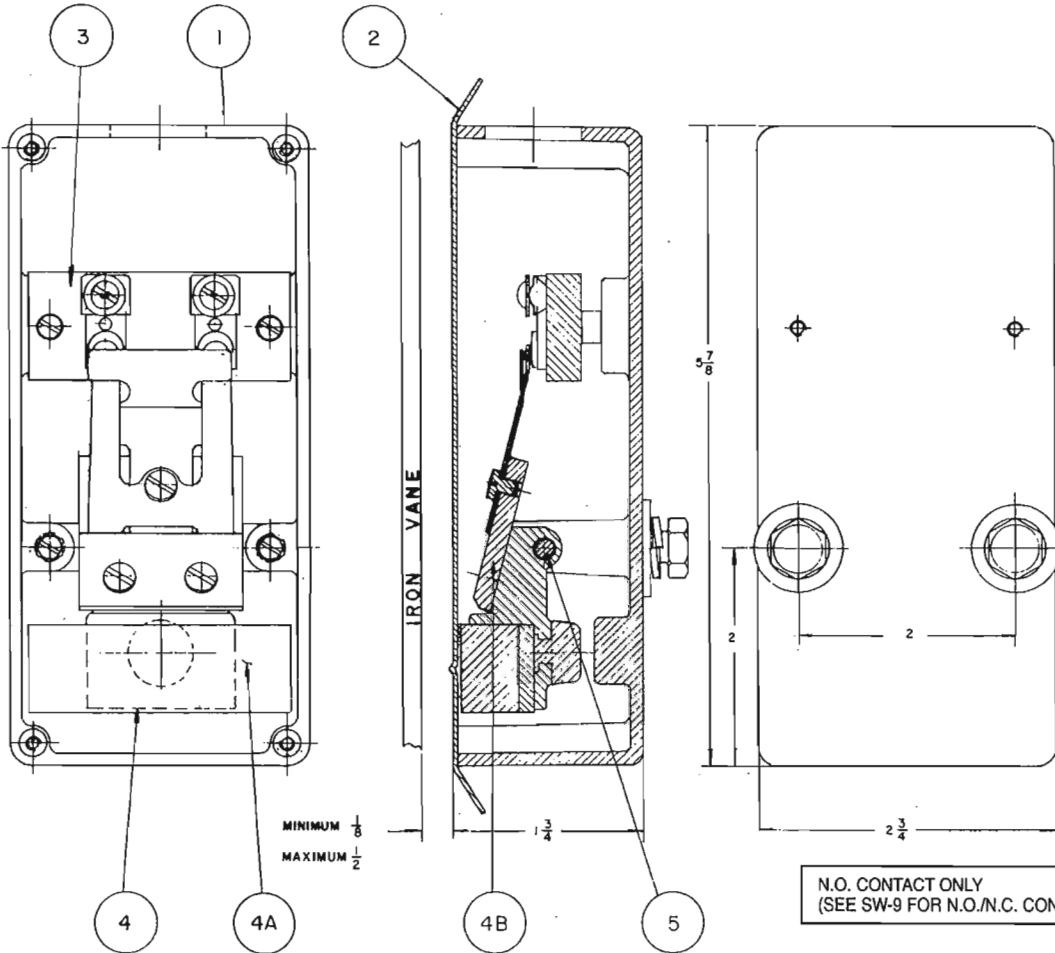
PART NO.	DESCRIPTION	
SW-5-1	LS LIMIT SWITCH	
SW-5-1A	COVER & SCREWS	
SW-5-2	CAM (INCLUDES: ARM, ROLLER & SHAFT, BRIDGING BLOCK)	
SW-5-2A	BRIDGING BLOCK	
SW-5-2B	ROLLER & SHAFT	
SW-5-3	CAM SHAFT	
SW-5-4	CAM SPRING	
SW-5-5	CONTACT BASE WITH INSULATOR	
SW-5-6	SLACK CABLE SWITCH WITH MANUAL RESET	
SW-5-7	CAM (INCLUDES: ARM, BRIDGING BLOCK & SPRING TENSION SET SCREW)	
SW-5-7A	OPERATING BAR (36" O.A.)	
SW-5-8	SLACK CABLE SWITCH RESET	
	ALL OTHER PARTS SAME AS LS	

NOTE :
WHEN ORDERING SPECIFY THIS DRAWING NUMBER, PART NUMBER, DESCRIPTION.



LS LIMIT SWITCH AND SLACK CABLE SWITCH

MIN. SALES	7-78	SCALE	FULL	DATE	AUG. 30 1974
NO.	REVISION	DATE	CHK BY	G. P. D.	SW - 5



TYPE LU
MAGNETIC LEVEL SWITCH (PARTS LIST)

PART NO	DESCRIPTION
SW-8-1	L.U. BOX
SW-8-2	L.U. COVER
SW-8-3	L.U. CONTACT BASE
SW-8-4	L.U. CONTACT CAM ASSY <small>INCLUDE PARTS 'A' & 'B'</small>
SW-8-4A	L.U. PERMANENT MAGNET
SW-8-4B	L.U. BRIDGING BLOCK
SW-8-5	L.U. HINGE PIN

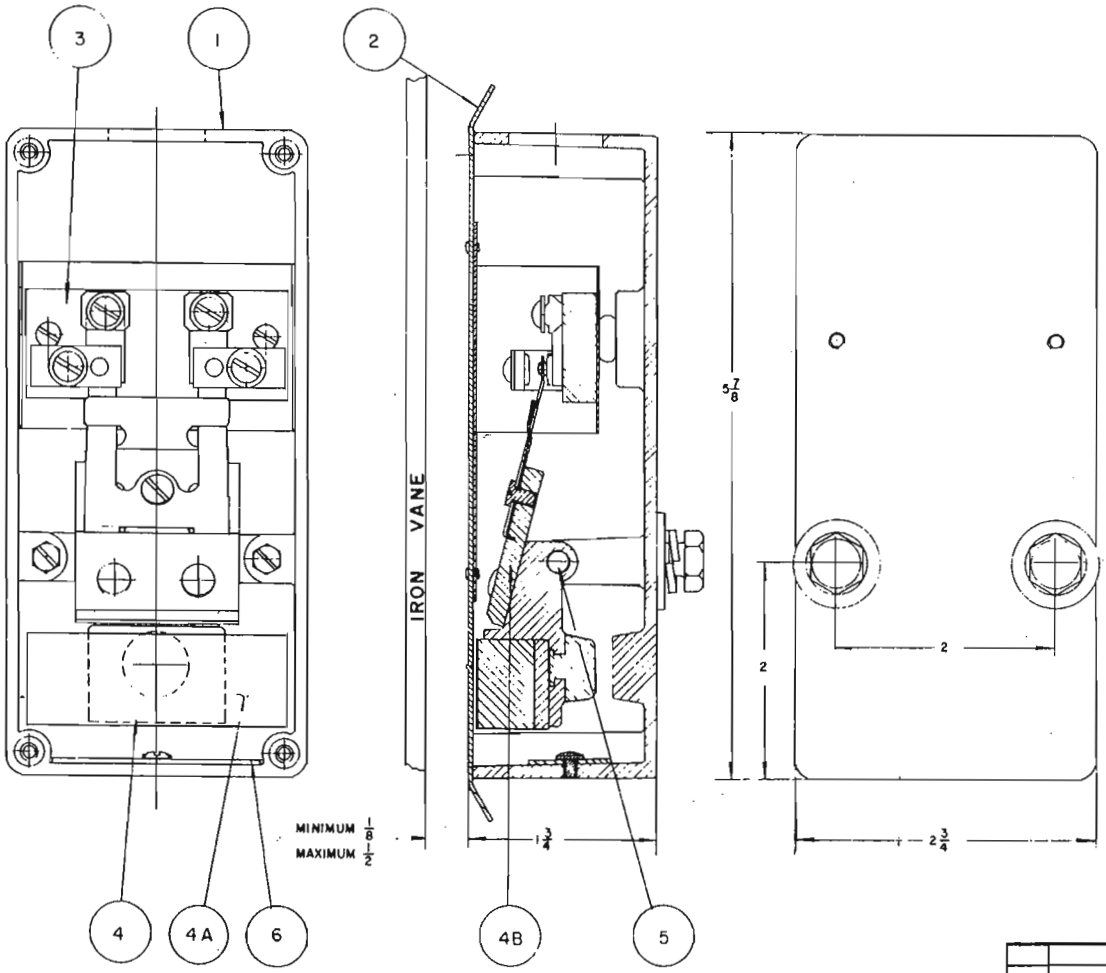
N.O. CONTACT ONLY
(SEE SW-9 FOR N.O./N.C. CONTACTS)

GAL G. A. L. MANUFACTURING CORP.
FLUORIDE SERVICE 50 EAST 153rd STREET BRONX, N. Y. 10451

TYPE LU
MAGNETIC LEVEL SWITCH

NOTE: WHEN ORDERING SPECIFY THIS DRAWING NUMBER, PART NUMBER, DESCRIPTION.

2	CERAMIC MAGNET					SCALE FULL	DATE APRIL 11 1974
1	MIN. SALES	7-78				DWG. BY S. C. H.	SW - 8
NO.	REVISION	DATE	CHK.			CH'K. BY G. F. D.	



N.O. + N.C. CONTACTS
(FOR N.O. CONTACT ONLY, SEE SW-8)

TYPE LUT
MAGNETIC LEVEL SWITCH (PARTS LIST)

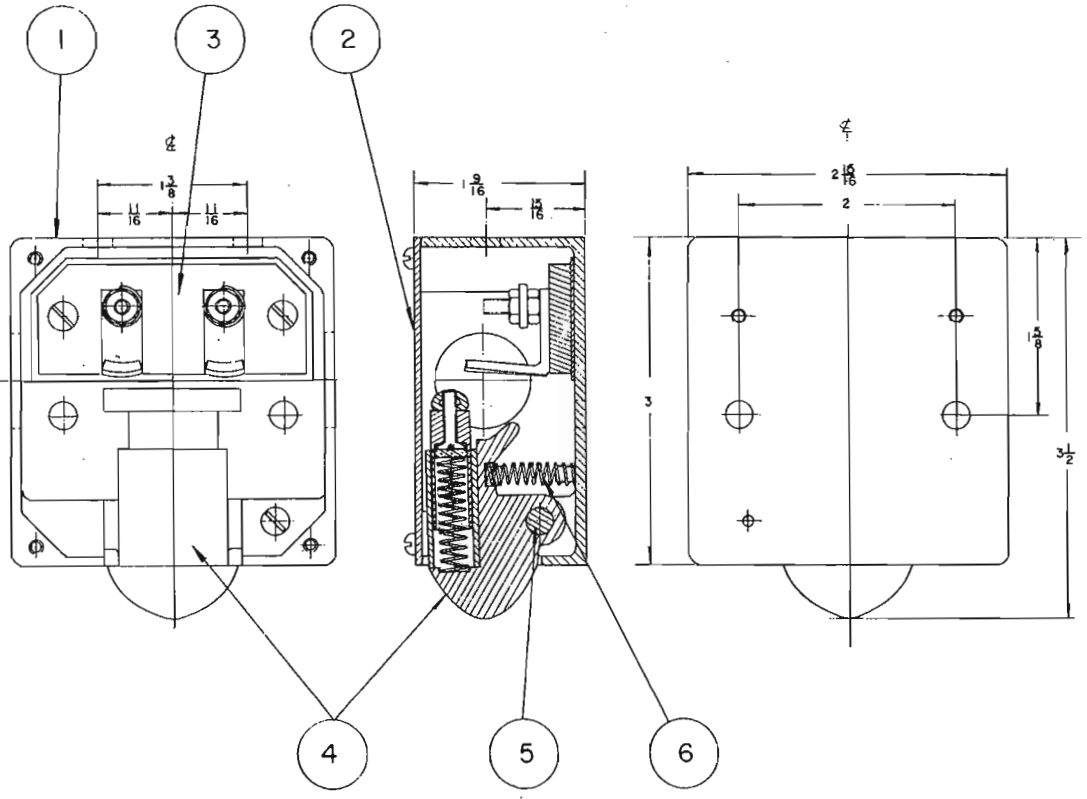
PART NO	DESCRIPTION	
SW-9-1	L.U.T. BOX	
SW-9-2	L.U.T. COVER WITH INSULATOR	
SW-9-3	L.U.T. CONTACT BASE WITH INSULATOR	
SW-9-4	L.U.T. CONTACT CAM ASSY ^{INCLUDE 'A & B'}	
SW-9-4A	L.U. PERMANENT MAGNET	
SW-9-4B	L.U. BRIDGING BLOCK	
SW-9-5	L.U. HINGE PIN	
SW-9-6	L.U.T POSITIVE RETURN PLATE	

NOTE :
WHEN ORDERING SPECIFY THIS DRAWING NUMBER, PART NUMBER, DESCRIPTION.

GAL ELEVATOR DEVICES
G. A. L. MANUFACTURING CORP.
 50 EAST 153rd STREET BRONX, N. Y. 10461

TYPE LUT
MAGNETIC LEVEL SWITCH

2	CERAMIC MAGNET			SCALE FULL	DATE APRIL 11, 1974
1	MIN. SALES	7-78		DWG. BY S. C. H.	
NO.	REVISION	DATE	CHK.	CH'K. BY G. E. D.	SW - 9



SINGLE DOOR CONTACT (PARTS LIST)

PART NO	DESCRIPTION	
SW-10-1	BOX	
SW-10-2	COVER AND SCREWS	
SW-10-3	CONTACT BASE WITH INSULATOR	
SW-10-4	BRIDGING CONTACT CAM	
SW-10-5	CONTACT CAM HINGE PIN	
SW-10-6	CONTACT CAM SPRING	

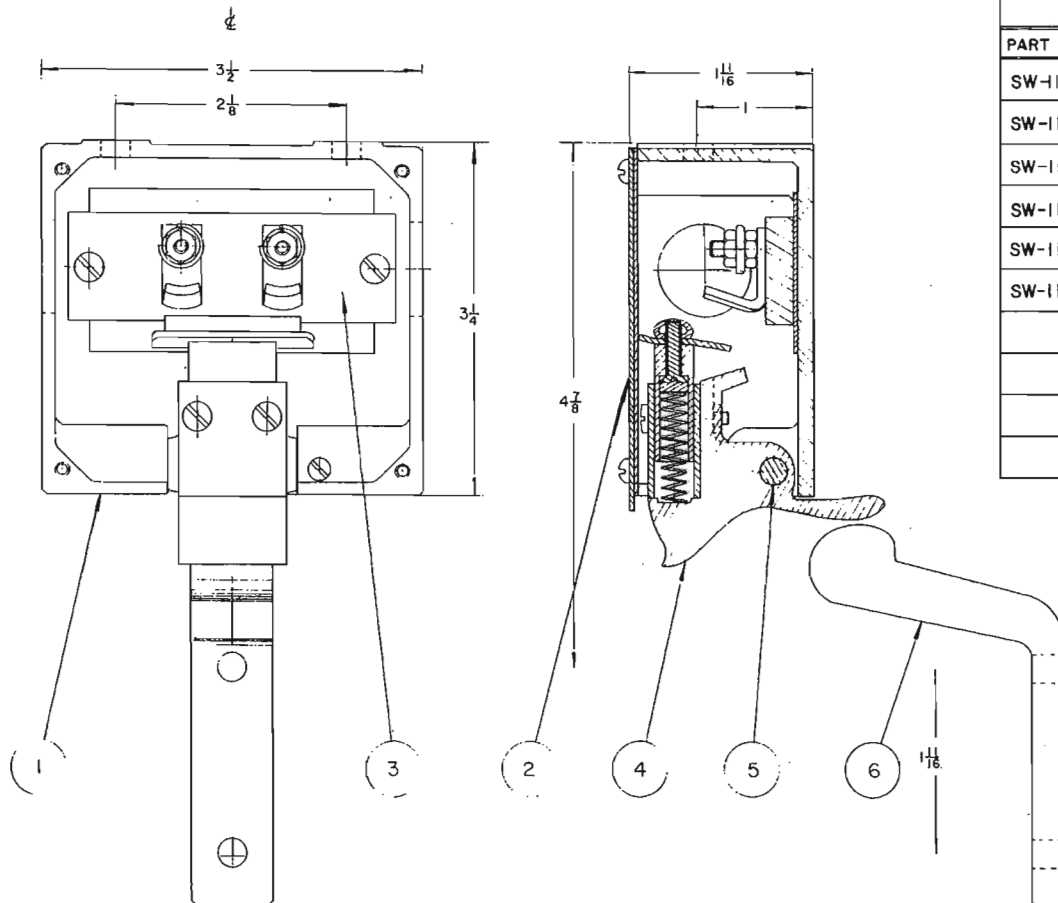
NOTE : WHEN ORDERING SPECIFY THIS DRAWING NUMBER, PART NUMBER, DESCRIPTION.



1	MIN. SALES	7-78		SCALE FULL	DATE APRIL 16 1974
				DWG. BY S. C. H.	
				CH'K. BY G. P. P.	

SINGLE DOOR CONTACT

SW - 10



TYPE K-2 DOOR CONTACT (PARTS LIST)

PART NO.	DESCRIPTION
SW-11-1	BOX
SW-11-2	COVER & SCREWS WITH INSULATOR
SW-11-3	CONTACT BASE WITH INSULATOR
SW-11-4	K-2 BRIDGING CONTACT CAM
SW-11-5	CONTACT CAM HINGE PIN
SW-11-6	K-2 ACTUATING ARM

NOTE :
WHEN ORDERING SPECIFY THIS DRAWING NUMBER, PART NUMBER, DESCRIPTION.


G. A. L. MANUFACTURING CORP.
 50 EAST 153rd STREET BRONX, N. Y. 10451

				TYPE K-2 DOOR CONTACT			
				SCALE FULL		DATE APRIL 17 1974	
1	MIN SALES	7-78		DWG. BY	S. C. H.		
NO.	REVISION	DATE	CHK.	CHK. BY	G. F. D.	SW - 11	

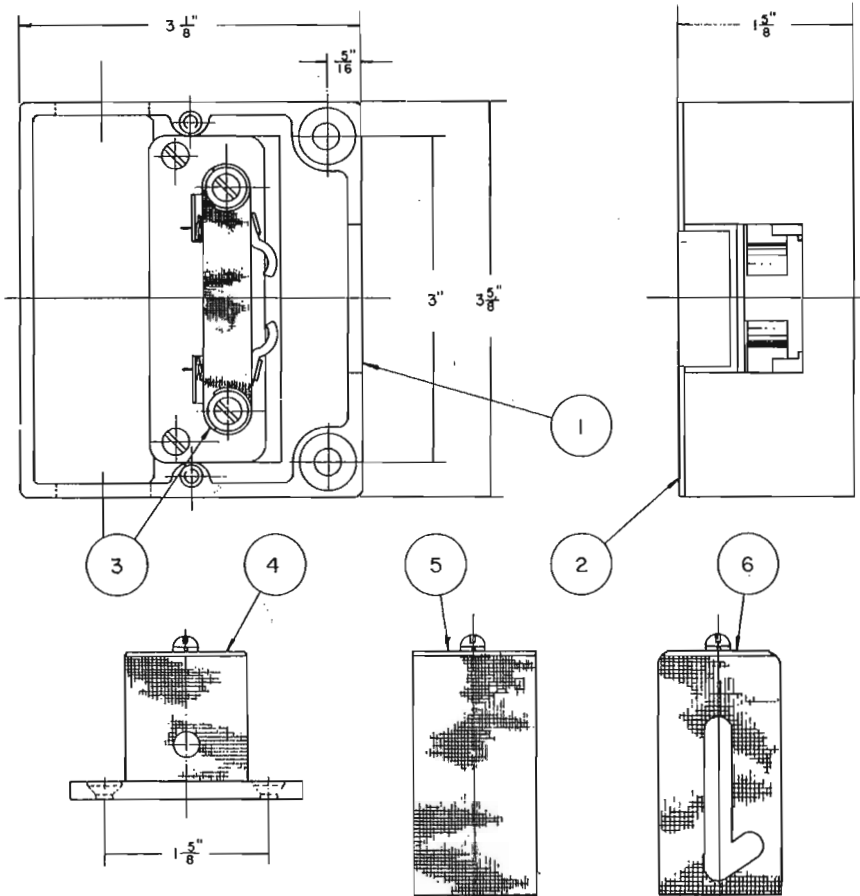


FIG. 3- AG
STANDARD KEEPER

FIG. 1- A G
SPECIAL KEEPER

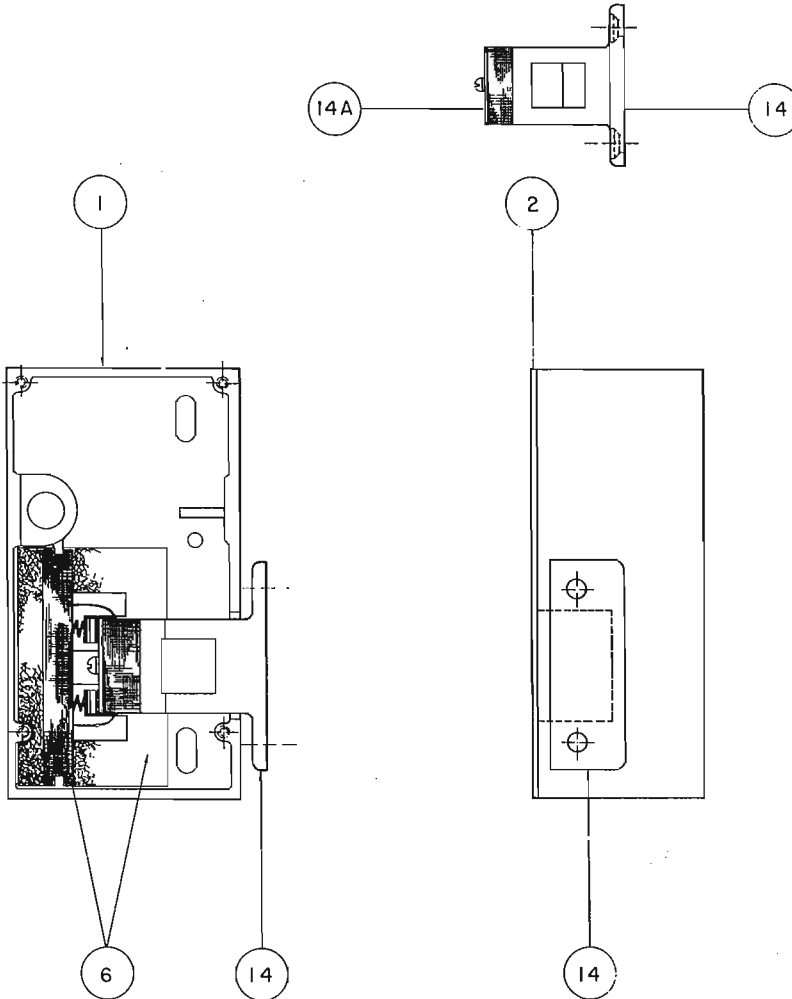
FIG. 2- AG
SPECIAL HOLLISTER
KEEPER

WHEN ORDERING PARTS, GIVE PART NUMBER,
DESCRIPTION AND THIS DWG. NUMBER.

TYPE AG DOOR CONTACT (PARTS LIST)		
PART NO.	DESCRIPTION	
SW-12-1	BOX	
SW-12-2	COVER AND SCREWS WITH INSULATOR	
SW-12-3	CONTACT BASE ASSY WITH INSULATOR	
SW-12-4	STANDARD KEEPER FIG. 3- AG	
SW-12-5	SPECIAL KEEPER FIG. 1- AG	
SW-12-6	SPECIAL HOLLISTER KEEPER FIG. 2- AG	


G. A. L. MANUFACTURING CORP.
 50 EAST 153rd STREET BRONX, N. Y. 10451
 ELEVATOR SERVICE

			TYPE AG DOOR CONTACT		
			SCALE FULL	DATE APRIL 29, 1974	
1	MIN. SALES	7-78	DWG. BY	S. C. H.	SW - 12
NO.	REVISION	DATE	CHK. BY	G. F. D.	



**CSM DOOR CONTACT
(PARTS LIST)**

PART Nº	DESCRIPTION	
SW-C-13-1	SWITCH BOX	
SW-C-13-2	COVER & SCREWS WITH INSULATOR	
SW-C-13-6	CONTACT BASE WITH INSULATOR	
SW-C-13-14	KEEPER ASS'Y (FOR KEEPER ARRANGEMENT) (SEE DWG. INT-4-M14-2)	
SW-C-13-14A	KEEPER BRIDGING BLOCK	

NOTE: WHEN ORDERING SPECIFY THIS DWG. NUMBER,
PART NUMBER, DESCRIPTION AND HAND.

RH SHOWN
LH OPPOSITE AS SHOWN



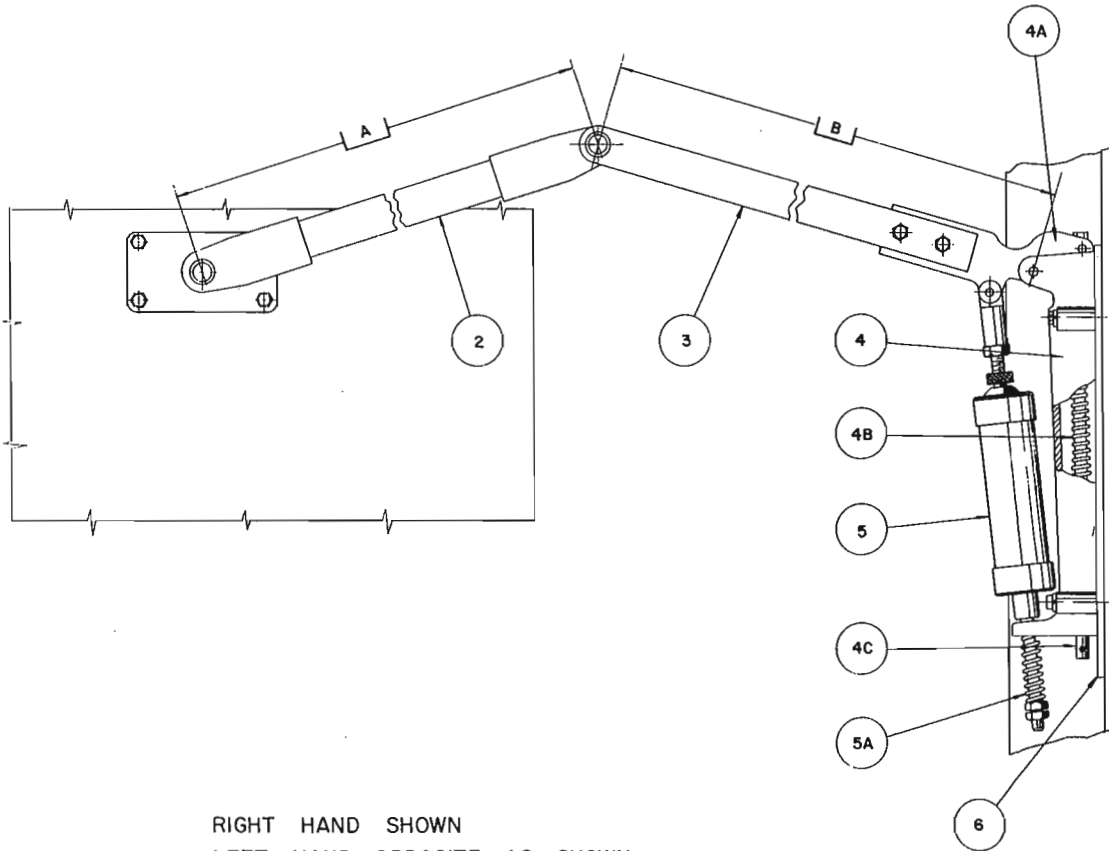
**CSM DOOR CONTACT
(PARTS LIST)**

SCALE _____ DATE 7-1-63

DWG. BY WJR

SW-13

NO.	REVISION	DATE	CHK.	CHK. BY	D. F. D.



RIGHT HAND SHOWN
LEFT HAND OPPOSITE AS SHOWN

NOTE: WHEN ORDERING PARTS, GIVE THIS DRAWING NUMBER, PART NO, DESCRIPTION, HAND OF INSTALLATION.

BROKEN ARM CLOSER FOR SINGLE SPEED DOOR (PARTS LIST)	
PART NO.	DESCRIPTION
CL-1-1	5/8 BROKEN ARM CLOSER
CL-1-2	FRONT ARM (INCLUDES: DOOR BRACKET)
CL-1-3	REAR ARM
CL-1-4	SPRING HOUSING (ADVISE DOOR OPENING WIDTH)
CL-1-4A	ROCKER ARM
CL-1-4B	5/8 BAC SPRING
CL-1-4C	BAC SPRING ADJUSTING ROD
CL-1-5	5/8 BAC OIL CHECK OC 500 A
CL-1-5A	5/8 BAC OIL CHECK SPRING (ADVISE DOOR OPENING WIDTH)
CL-1-6	5/8 "C" MOUNTING PLATE

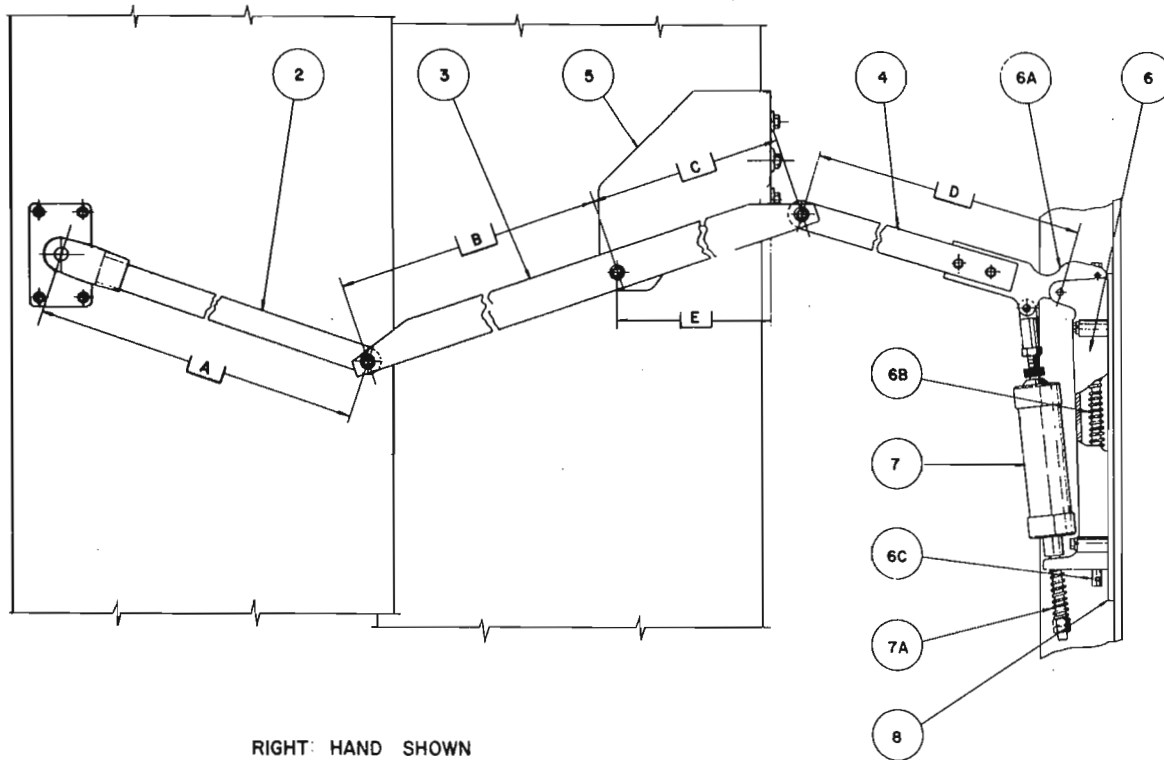
* IF REPLACEMENT ARM REQUIRED KINDLY INDICATE "A" OR "B" DIMENSION.



BROKEN ARM CLOSER
FOR SINGLE SPEED DOOR

SCALE	DATE	5	1	74
1	MIN. SALES	7-78	DRG. BY	S. C. H.
NO	REVISION	DATE	CHK. BY	G. F. D.

CL - J



RIGHT HAND SHOWN
LEFT HAND OPPOSITE AS SHOWN

NOTE: WHEN ORDERING PARTS, GIVE THIS
DRAWING NUMBER, PART NO, DE-
SCRIPTION, HAND OF INSTALLATION.

BROKEN ARM CLOSER FOR TWO SPEED DOOR (PARTS LIST)

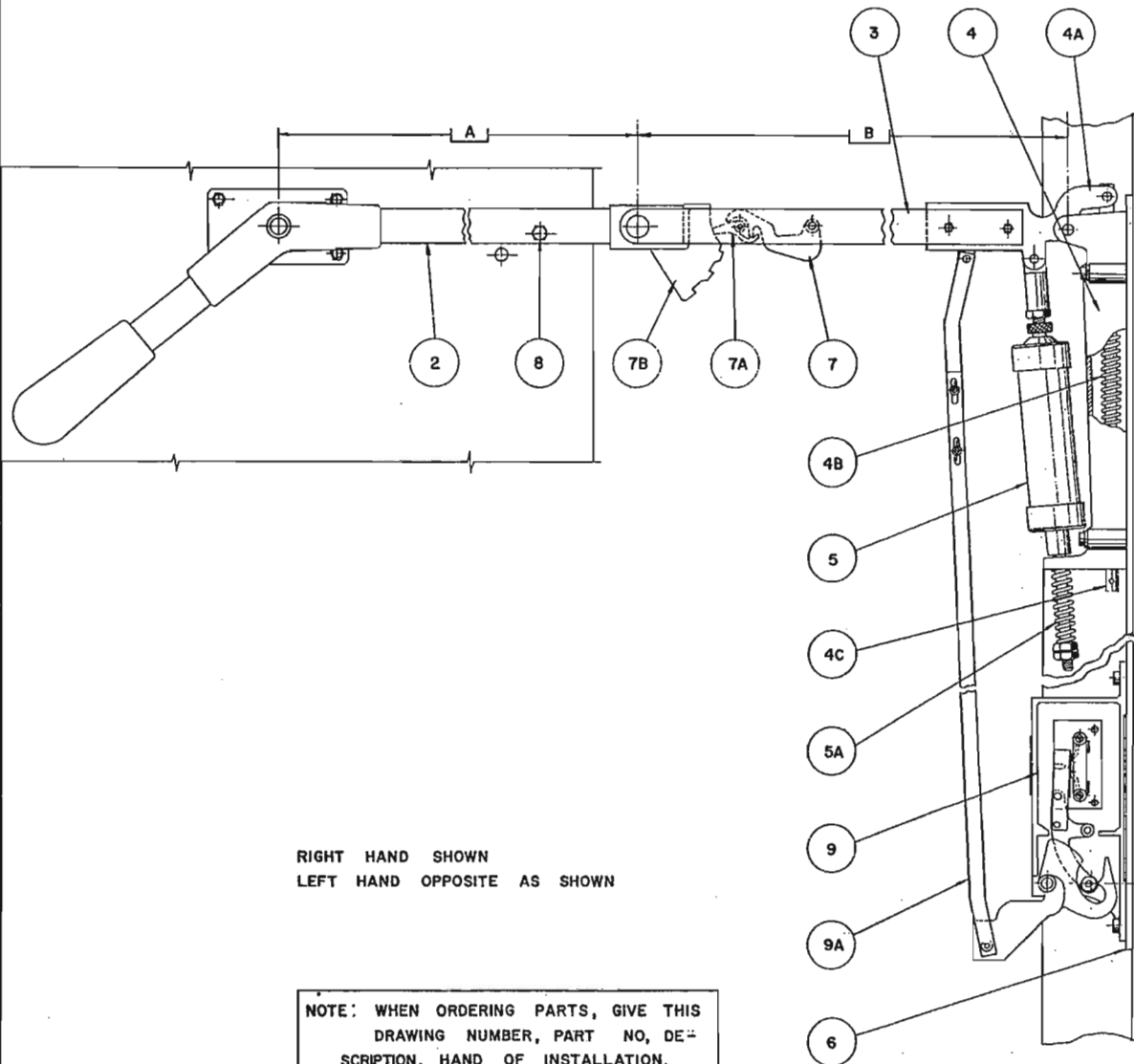
PART NO	DESCRIPTION	
CL-2-1	2/3P BROKEN ARM CLOSER	
* CL-2-2	FRONT ARM (INCLUDES: DOOR BRACKET)	
* CL-2-3	INTERMEDIATE ARM	
* CL-2-4	REAR ARM	
CL-2-5	SLOW DOOR BRACKET (ADVISE "E" DIM.)	
CL-2-6	SPRING HOUSING	
CL-2-6A	ROCKER ARM	
CL-2-6B	2/3P BAC SPRING (ADVISE DOOR OPENING WIDTH)	
CL-2-6C	BAC SPRING ADJUSTING ROD	
CL-2-7	OIL CHECK OC - 500A	
CL-2-7A	OIL CHECK SPRING (ADVISE DOOR OPENING WIDTH)	
CL-2-8	2/3P "C" MOUNTING PLATE	

* IF REPLACEMENT ARM REQUIRED
KINDLY INDICATE "A", "B" OR "D" DIM.

GAL
ELEVATOR BRACKETS
B. A. L. MANUFACTURING CORP.
50 EAST 153rd STREET
BRONX, N. Y. 10451

BROKEN ARM CLOSER
FOR TWO SPEED DOOR

MIN. SALES		7-78	SCALE		DATE MAY 3 1974
NO	REVISION	DATE	CHK BY	BY	CL-2



RIGHT HAND SHOWN
LEFT HAND OPPOSITE AS SHOWN

NOTE: WHEN ORDERING PARTS, GIVE THIS DRAWING NUMBER, PART NO, DESCRIPTION, HAND OF INSTALLATION.

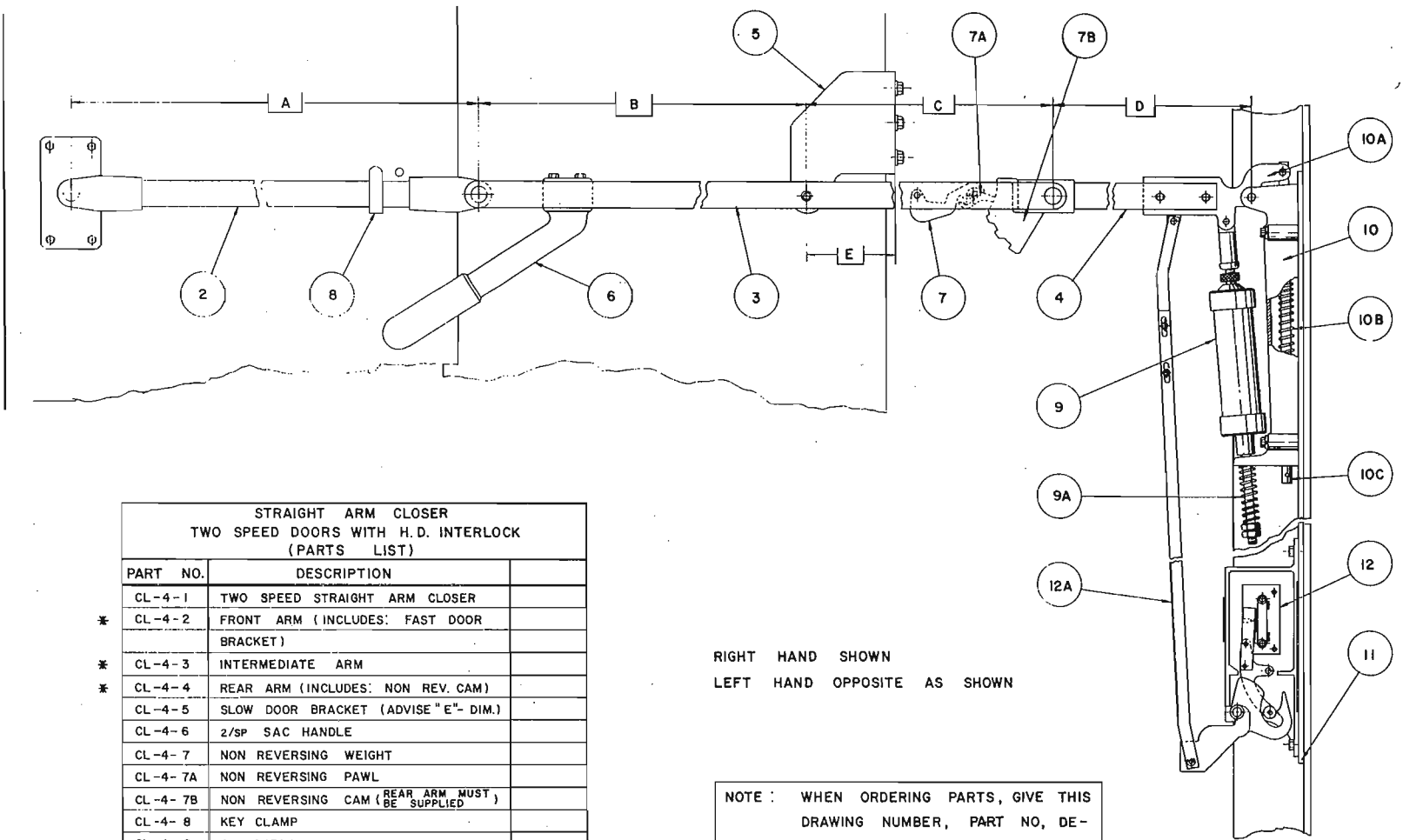
STRAIGHT ARM CLOSER SINGLE SLIDE DOOR WITH H.D. INTERLOCK (PARTS LIST)	
PART NO.	DESCRIPTION
CL-3-1	3/8 STRAIGHT ARM CLOSER.
* CL-3-2	FRONT ARM (INCLUDES: DOOR BRACKET HANDLE, NON REV. CAM.)
* CL-3-3	REAR ARM
CL-3-4	SPRING HOUSING
CL-3-4A	ROCKER ARM
CL-3-4B	3/8 SAC SPRING (ADVISE DOOR OPENING WIDTH)
CL-3-4C	SAC SPRING ADJUSTING ROD
CL-3-5	3/8 SAC OIL CHECK oc 500 B
CL-3-5A	OIL CHECK SPRING (ADVISE DOOR OPENING WIDTH)
CL-3-6	3/8 CI MOUNTING PLATE
CL-3-7	NON REVERSING WEIGHT
CL-3-7A	NON REVERSING PAWL
CL-3-7B	NON REVERSING CAM (FRONT ARM MUST BE SUPPLIED)
CL-3-8	UNLOCKING BOLT
CL-3-9	HD INTERLOCK
CL-3-9A	HD INTERLOCK CONNECTING LINK
PARTS 9-9A REFER TO PARTS LIST INT-9	

* IF REPLACEMENT ARM REQUIRED KINDLY INDICATE "A" OR "B" DIM.



STRAIGHT ARM CLOSER SINGLE SLIDE DOOR WITH H.D. INTERLOCK

SCALE	DATE 5, 1, 74
DWG. BY S. C. H.	
MIN. SALES 7-78	
NO. REVISION	DATE CHK. BY G. F. C.
CL-3	



STRAIGHT ARM CLOSER TWO SPEED DOORS WITH H. D. INTERLOCK (PARTS LIST)	
PART NO.	DESCRIPTION
CL-4-1	TWO SPEED STRAIGHT ARM CLOSER
* CL-4-2	FRONT ARM (INCLUDES: FAST DOOR BRACKET)
* CL-4-3	INTERMEDIATE ARM
* CL-4-4	REAR ARM (INCLUDES: NON REV. CAM)
CL-4-5	SLOW DOOR BRACKET (ADVISE "E"-DIM.)
CL-4-6	2/SP SAC HANDLE
CL-4-7	NON REVERSING WEIGHT
CL-4-7A	NON REVERSING PAWL
CL-4-7B	NON REVERSING CAM (REAR ARM MUST BE SUPPLIED)
CL-4-8	KEY CLAMP
CL-4-9	OIL CHECK OC-500C
CL-4-9A	OIL CHECK SPRING (ADVISE DOOR OPENING WIDTH)
CL-4-10	SPRING HOUSING
CL-4-10A	ROCKER ARM
CL-4-10B	2/SP SAC SPRING (ADVISE DOOR OPENING WIDTH)
CL-4-10C	SAC SPRING ADJUSTING ROD
CL-4-11	2/SP CI MOUNTING PLATE
CL-4-12	HD INTERLOCK
CL-4-12A	HD INTERLOCK CONNECTING LINK
	PARTS 12-12A REFER TO PARTS LIST INT-9

RIGHT HAND SHOWN
LEFT HAND OPPOSITE AS SHOWN

NOTE: WHEN ORDERING PARTS, GIVE THIS DRAWING NUMBER, PART NO, DESCRIPTION, HAND OF INSTALLATION.

* IF REPLACEMENT ARM REQUIRED KINDLY INDICATE "A", "B C" OR "D" DIM.

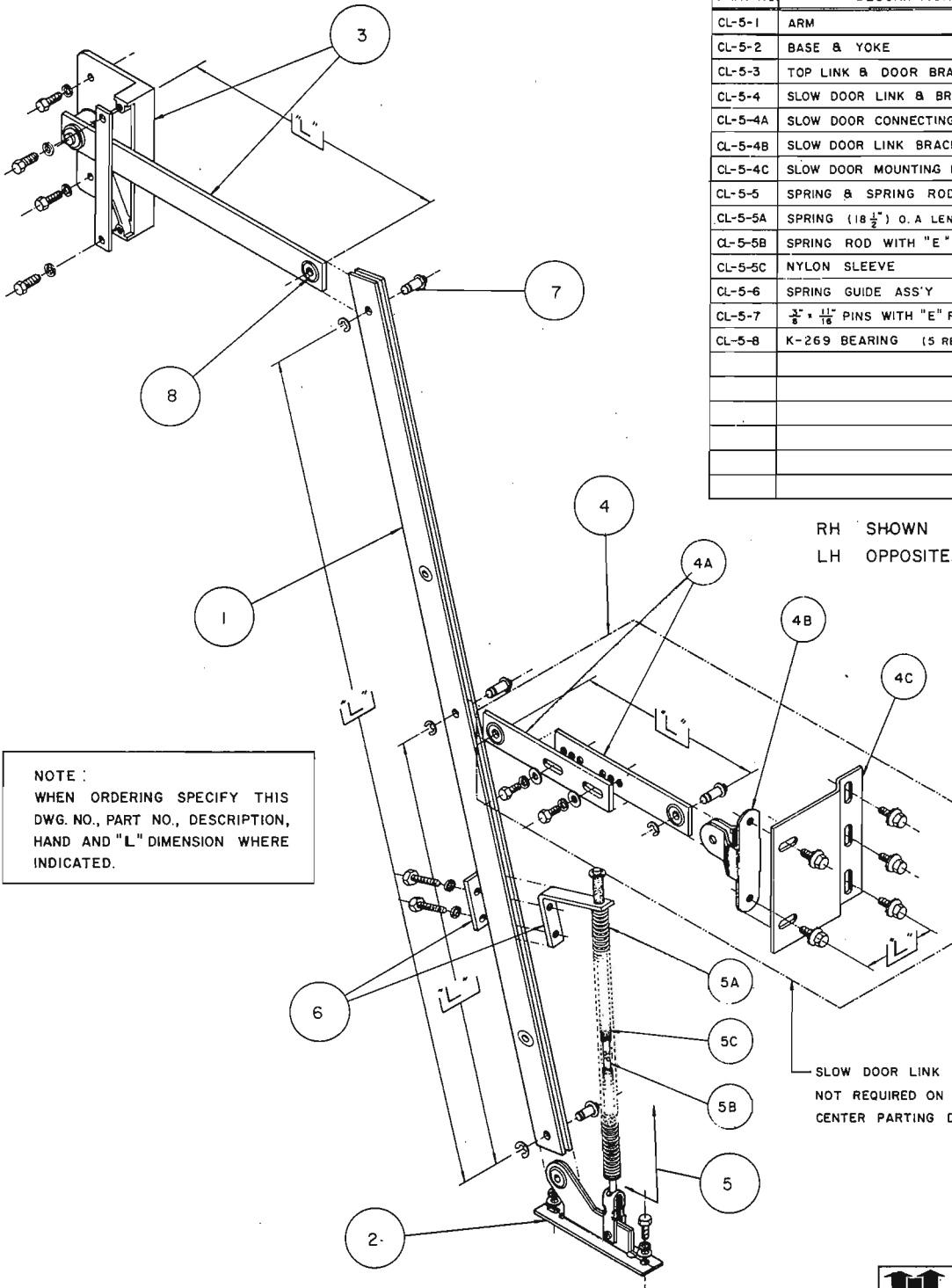


STRAIGHT ARM CLOSER
TWO SPEED DOORS
WITH H. D. INTERLOCK

SCALE		DATE MAY 3 1974	
1 MIN. SALES	7-78	DWG. BY S. C. H.	CL-4
NO. REVISION	DATE	CHK. BY G. F. P.	

SPRING DOOR CLOSER
(PARTS LIST)

PART NO	DESCRIPTION	
CL-5-1	ARM	
CL-5-2	BASE & YOKE	
CL-5-3	TOP LINK & DOOR BRACKET	
CL-5-4	SLOW DOOR LINK & BRACKET ASS'Y	
CL-5-4A	SLOW DOOR CONNECTING LINK	
CL-5-4B	SLOW DOOR LINK BRACKET	
CL-5-4C	SLOW DOOR MOUNTING PLATE	
CL-5-5	SPRING & SPRING ROD ASS'Y W/ YOKE	
CL-5-5A	SPRING (18 1/2" O. A LENGTH)	
CL-5-5B	SPRING ROD WITH "E" RINGS	
CL-5-5C	NYLON SLEEVE	
CL-5-6	SPRING GUIDE ASS'Y	
CL-5-7	3/8" x 1 1/8" PINS WITH "E" RING (4 REQ'D)	
CL-5-8	K-269 BEARING (5 REQ'D)	



NOTE:
WHEN ORDERING SPECIFY THIS
DWG. NO., PART NO., DESCRIPTION,
HAND AND "L" DIMENSION WHERE
INDICATED.

RH SHOWN
LH OPPOSITE AS SHOWN

SLOW DOOR LINK & BRACKET ASS'Y
NOT REQUIRED ON SINGLE SPEED OR
CENTER PARTING DOOR

GAL D. A. L. MANUFACTURING CORP.
50 EAST 153rd STREET BRONX, N. Y. 10451

2		6-83	SCALE	DATE 12-24-1974
1	MIN. SALES	7-78	DWG BY S C H	
NO	REVISION	DATE	CHK BY G F D.	CL-5