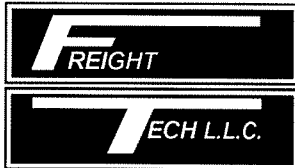
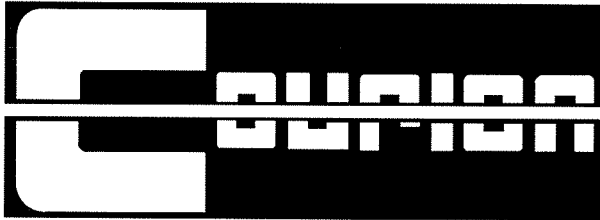


OPENING QUALITY DOORS
AROUND THE WORLD



Guilbert
ENERGY



ONE COMPANY | So Many Options

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

www.couriondoors.com

**Guilbert & Energy
Parts & Maintenance**

TABLE OF CONTENTS

GUILBERT STANDARD WARRANTY AND SERVICE POLICY

INSTRUCTIONS

General Ordering Information----- 1
Job Numbers - How To Locate----- 2

ASTRAGALS----- 3

DUMBWAITER DOORS

Hatch Door, Manual----- 4
Hatch Door, Power----- 5
Car Door, Power, Complete With Retiring Cam----- 6
Parts, General----- 7
Parts, Power----- 8
Parts, Gripper Assembly----- 9
Gripper Assembly And Interlock Arrangement----- 10
Operator----- 11

EMERGENCY RELEASE----- 12

FREIGHT DOORS

Door Hardware----- 13
Wing Arm And Sill Stop Construction----- 14
Hold Close Device----- 15

GATES

Power Gate Panel Hardware, Single Blade, 1966 To Present----- 16
Power Gate Panel Hardware, Double Blade, 1966 To Present----- 17
Power Gate Drive Unit, Single Blade, 1966 To Present----- 18
Power Gate Drive Unit, Double Blade, 1966 To Present----- 19
Power Gate Weight Box Hardware, 1966 To Present----- 20
Manual Car Gate, Single Blade----- 21
Manual Car Gate, Double Blade----- 22
Manual Gate Parts----- 23

INTERLOCKS

AR-2 Double Contact Interlock----- 24
AS-1 Single Contact Interlock----- 25
Interlock - Placement Of Plugproof Bar And Zone Switch----- 26
Contact Replacement Instructions----- 27
Explosion-Proof And Waterproof Ordering Instructions----- 28

LIMIT SWITCHES

Individual Hatch Door Limit Switch----- 29
 Master Hatch Door Limit Switch----- 30
 Gate Limit Switches----- 31
 Gate Limit Switches, Explosion Resistant----- 32

OPERATORS

Special Instructions For Ordering----- 33
 Complete Operator Prior To July/1970----- 34
 Complete Operator July/1970 To October/1977----- 35
 Complete Operator October/1972 To July/ 1973----- 36
 Complete Operator July/1973 To March/1976----- 37
 Complete Operator March/1976 To May/1977----- 38
 Complete Operator May/1977 To Present----- 39
 Operator For Doors/Dual Operators----- 40
 How To Convert From Single to Dual Operation----- 41

PLUGPROOF BAR ASSEMBLY----- 42

RETIRING CAM

Retiring Cam Motor----- 43
 Mounting Application----- 44

REVERSING EDGES

Cable Type, 1966 Through 1973----- 45
 Foam Rubber Type, 1975 To Present----- 46

ZONE SWITCHES----- 47

ENERGY INDEX AND MANUAL-----

MAINTENANCE INSTRUCTIONS/TROUBLE SHOOTING-----

①

INSTRUCTIONS FOR ORDERING PARTS

WE HAVE A MINIMUM PARTS ORDER OF \$50.00. IN THE EVENT THAT AN ORDER DOES NOT MEET THIS REQUIREMENT, THE CUSTOMER WILL BE INVOICED MINIMUM CHARGE. PRICE LISTS ARE NOT AVAILABLE DUE TO THE EXTREME FLUCTUATION IN PARTS PRICING. PARTS RETURNED WITHOUT AUTHORIZATION ARE SUBJECT TO A SUBSTANTIAL RESTOCKING CHARGE.

MANY PARTS FOR OLDER JOBS, PARTICULARLY THOSE PRIOR TO 1965 ARE NOW OBSOLETE AND MAY NOT BE AVAILABLE. THIS MAY INCLUDE PARTS SHOWN IN THIS CATALOGUE. IF A COMPONENT PART IS OBSOLETE AND UNAVAILABLE, IT MAY BE POSSIBLE TO REPLACE IT WITH A NEW COMPLETE ASSEMBLY. IF FURTHER ENGINEERING IS REQUIRED FOR THIS REPLACEMENT, PLEASE ALLOW A SUBSTANTIAL TIME FOR THIS PROCEDURE.

DO NOT ATTEMPT TO REFERENCE A JOB BY NAME, ADDRESS, AND ELEVATOR COMPANY NUMBER ONLY.

OUR RECORDS GO BACK TO 1955. IF WE MUST LOCATE THE ORIGINAL JOB FILE, THE FOLLOWING INFORMATION MUST BE FURNISHED BY YOU:

1. JOB NAME AND GUILBERT JOB NUMBER
 - A. FOR POWER OPERATED JOBS (ANY JOB WITH MOTORIZED EQUIPMENT) THE JOB NUMBER IS LOCATED ON THE CONTROLLER.
 - B. FOR MANUAL JOBS, THE JOB NUMBER IS USUALLY MARKED ON THE GUIDE RAILS. THIS TENDS TO BECOME OBLITERATED AFTER A PERIOD OF TIME.
 - C. IF YOU HAVE A GUILBERT LAYOUT, THE JOB NUMBER WOULD BE LOCATED IN THE LOWER RIGHT-HAND CORNER.
 - D. IF THE GUILBERT JOB NUMBER IS NOT AVAILABLE, GIVE THE ORIGINAL JOB NAME AND THE YEAR PURCHASED, AS WELL AS THE ELEVATOR COMPANY THAT ORIGINALLY PURCHASED IT.

OF COURSE, MANY PARTS ARE STANDARD AND WE WOULD NOT NEED A JOB REFERENCE.

MANY PARTS ARE HANDED. BE SURE TO TAKE THIS INTO CONSIDERATION WHEN ORDERING. PARTICULARLY INTERLOCKS AND THEIR COMPONENTS. THE HAND IS DETERMINED BY STANDING IN THE CAR LOOKING OUT.

BE SURE OF THE PART YOU WANT. IF A PART IS ORDERED IN ERROR AND RETURNED, YOU WILL BE CHARGED A SUBSTANTIAL RESTOCKING CHARGE. CUSTOM-MADE PARTS ARE NOT RETURNABLE.

GUILBERT JOB NUMBERS

How to Locate and Identify

How to Locate: On power jobs, the job number is located on the controller, or on Guilbert hatch layouts, wiring diagrams and on the front of the Guilbert maintenance manual.

How to Identify: The number on the wiring diagram or hatch layout is the job number. Numbers fall into 3 variations:

1. Prior to 1955 - 4 digits (Ex: 5503)
2. 1955 to 1972 - 2 digits representing the year, a hyphen and the sequence number
(Ex: 69-342 = 1969, 342nd job
70-14 = 1970, 14th job)
3. 1972 to present - 5 digit number (Ex: 33260)

There is a controller designation on the controller; such as 170-FR or 275-F, etc. These are NOT JOB NUMBERS. They have no use for any type of identification. Ignore them.

SAFETY ASTRAGALS

FOR FREIGHT ELEVATOR DOORS

UNDERWRITERS TESTED - NEOPRENE



IF YOU WANT JUST SHEATHING, STATE "SHEATHING",
DO NOT CALL THE SHEATHING AN ASTRAGAL!!
IF YOU ARE ORDERING A COMPLETE ASTRAGAL, YOU WILL
RECEIVE THE SHEATHING, PLUS MOUNTING BAR & CHANNEL.

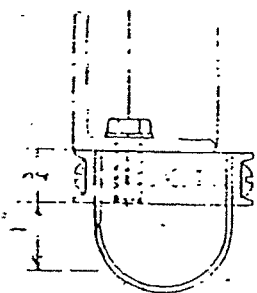
Sheathing and astragals are available for 1" or 2" clearance between door panels. Order by part number and length.

Sheathing for a 1" Astragal is 5" wide, Part #55309
Sheathing for a 2" Astragal is 7" wide, Part #55367

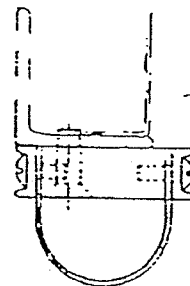
Tubes which were sometimes used in old 2" Safety Astragals are obsolete - no longer available. Tubing is not required, therefore, order the sheathing only.

SECTION - 1" ASTRAGAL

In accordance with
American Standard
Safety Code.



Installed as shown
on steel plate or
corrugated iron
doors.



This installation used for metal
clad doors: Tap door frame and
bolt from underneath with
flat-head bolts:

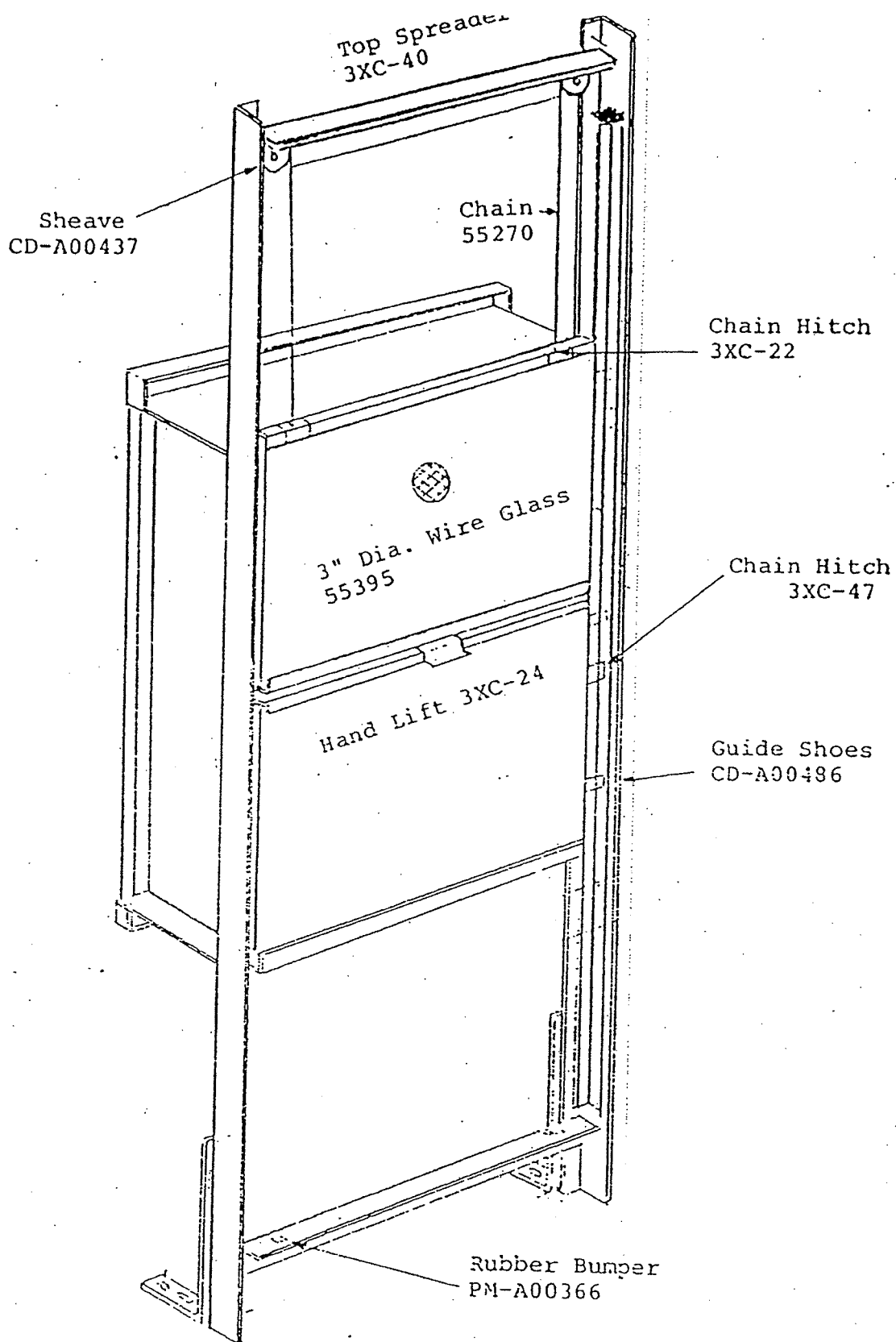
GENERAL:

Safety Astragals should extend full width of opening plus 1/2" each side. Guilbert Astragals are built so basic bar extends full width of opening and the neoprene sheathing continues beyond 3/4" each side. This can be trimmed to suit.

Guilbert Safety Astragals are furnished with web pull straps for both roomside and carside use.

If doors are manufactured with center hook latches, the hooks must be removed entirely. They are no longer legal. Order Guilbert "Hold Close" devices when ordering the safety astragal. The hold close device will retain the door in a closed position for the interlock to "make up". Customer is to provide brackets for the hold close devices to suit field conditions, if necessary.

CAUTION: Check overhead space travel of upper door section for regular door with no latch release assembly, Astragal requires 2 3/4" more travel.



*COURION WILL NO LONGER CARRY
MANY OF THE GILBERT DUMB-
WAITER PARTS, MOST ARE OBSOLETE.

MANUALLY OPERATED
DUMBWAITER
HATCH DOOR

Door Open
Limit Switch
55036

5

Sheave
CD-A00437

Door Chains
55270

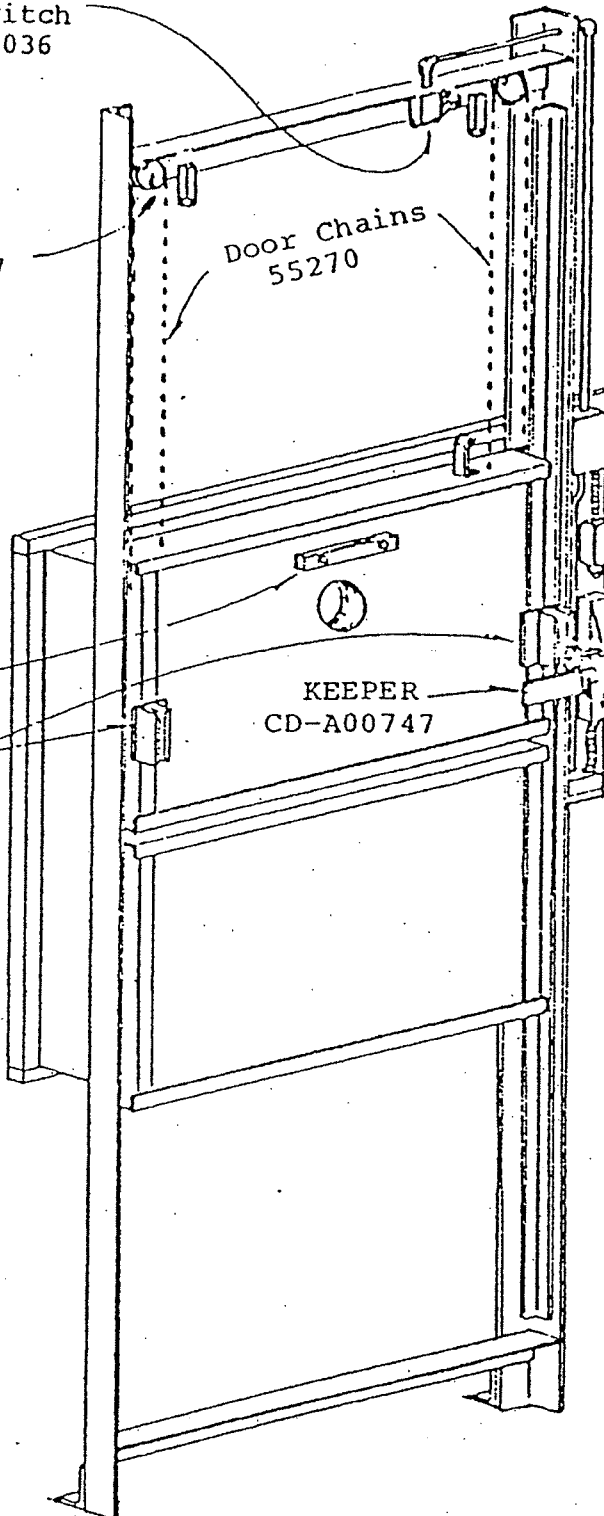
Zone Switch
2XC-149

GRIPPER SHIMS
CD-A00739

KEEPER
CD-A00747

AR-2 Interlock
See interlock
pages

GRIPPERS
CD-C00140



POWER OPERATED
DUMBWAITER HATCH DOOR
used with
MASTER OPERATOR

OPERATOR
P-21584

(See operator page)

IDLER SPROCKET
ASS'Y CC-A00830

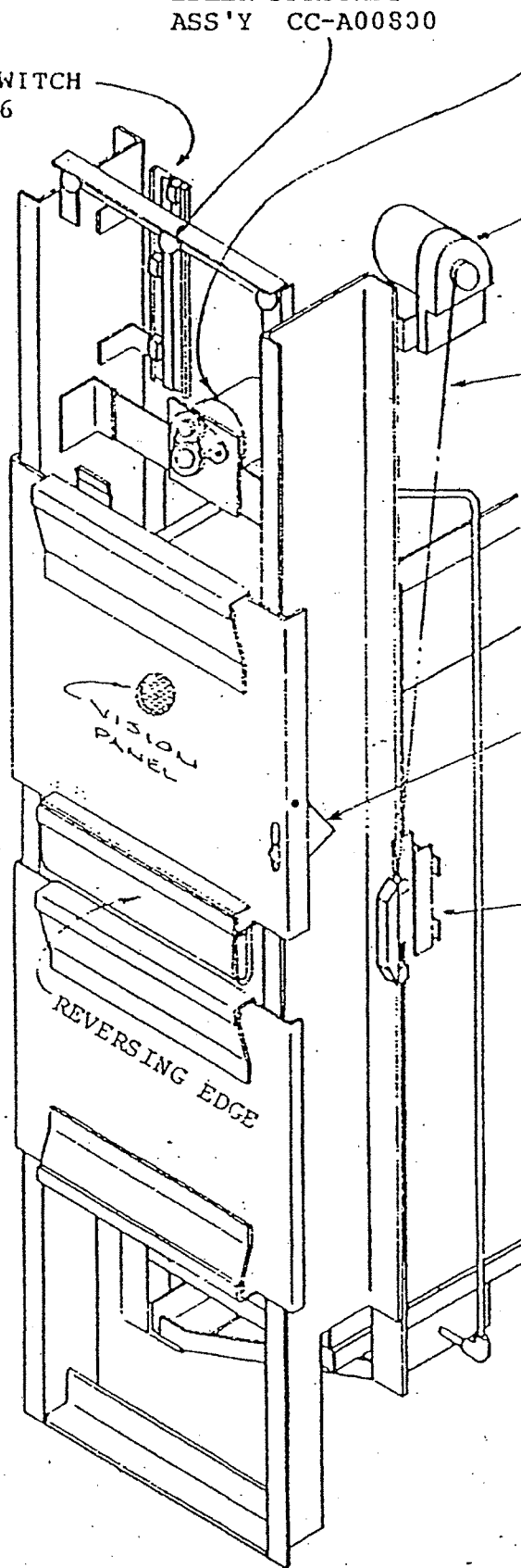
LIMIT SWITCH
55036

RETIRING CAM MOTOR
P-16628 "Handed"

RETIRING CAM
CHAIN 55270

VANE
CC-A00792 "Handed"

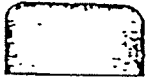
RETIRING CAM
MECHANICAL ASS'Y
RC-C00242-9
With Mtg Brkt.
RC-C00263



POWER OPERATED
DUMBWAITER
CAR DOOR

PARTS FOR DUMBWAITER SHAFTWAY DOORS

7



RUBBER BUMPER
FM-A00366



DOOR
RETAINER
CD-A00396



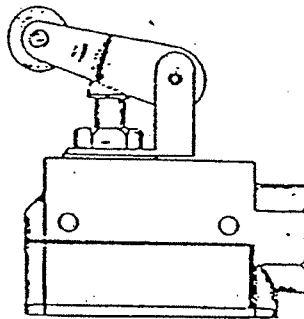
HATCH DOOR
FIRE LATCH
3XC-84
R.H. shown
L.H. opposite



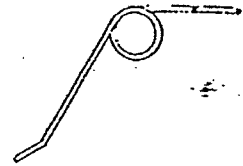
FUSIBLE
LINK
55326



HATCH DOOR
SHEAVE
CD-A00437



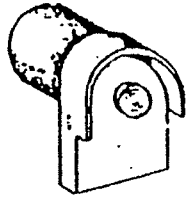
LIMIT SWITCH
55036



FIRE LATCH SPRING
3XC-85
R.H. shown
L.H. opposite

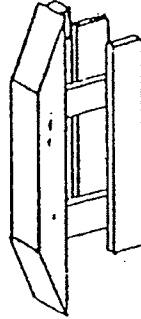
AND RETIRING CAMS
FOR DOORS USING A MASTER OPERATOR

8

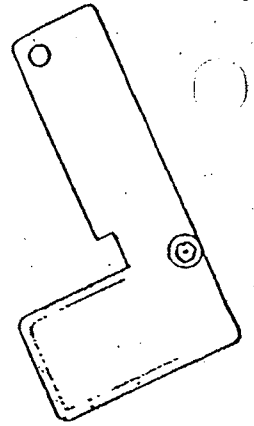


RETIRING CAM MOTOR
P-16628 "Handed"

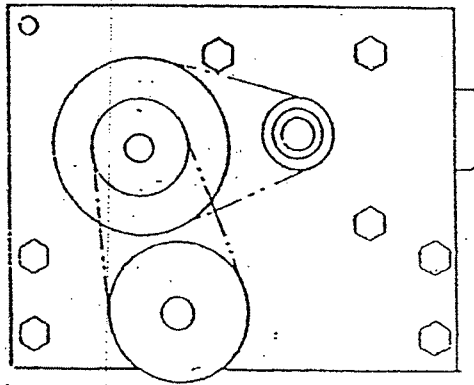
OBSOLETE



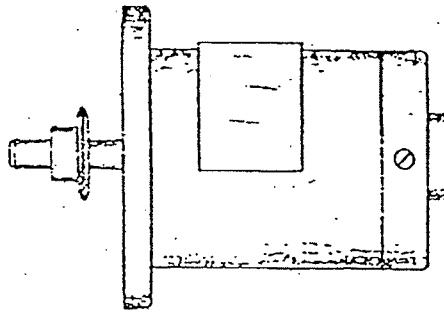
RETIRING CAM
FACE RC-C00242-9



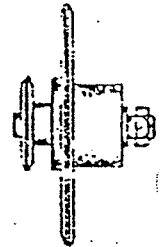
CAR DOOR VANE ASS'Y
W/nylon roller
CC-A00792 "Handed"



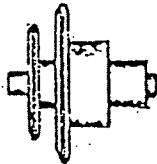
OPERATOR
1966 Thru 1972 3XC-2200
1973 Thru July 1978 3XC-2200A
August 1978 to Present P-21584



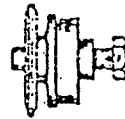
OPERATOR MOTOR PA-B00295
WITH SPROCKET FP-A00941



REDUCTION
UNIT WITH
SHAFT &
BEARINGS
P-21586



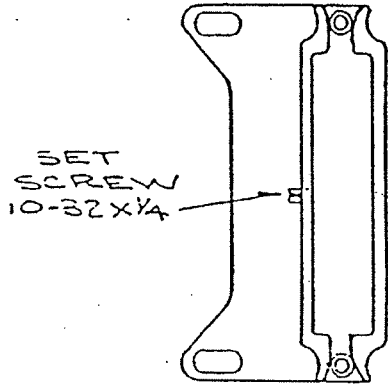
DRIVE SPROCKET
ASS'Y. WITH
BEARINGS
P-21585



IDLER SPROCKET
ASS'Y WITH
SHAFT & BEARINGS
(MOUNTED ON
TOP SPREADER)
CC-A00800

Complete gripper assembly CD-C00140 (old number 3XC-2291) consists of material as follows:

- (1) only - CD-B00204 Gripper casting
- (4) only - CD-A00745 Retainer & screw
- (2) only - CD-A00740 Gripper packing
- (2) only - CD-A00739 Pressure adjustment shim
- (2) only - CD-A00742 Gripper lining & plate



SHAFTWAY DOOR
GRIPPER CASTING
CD-B00204



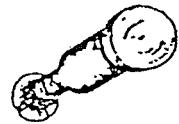
GRIPPER PACKING
CD-A00740



Gripper pressure
adjustment shim
CD-A00739

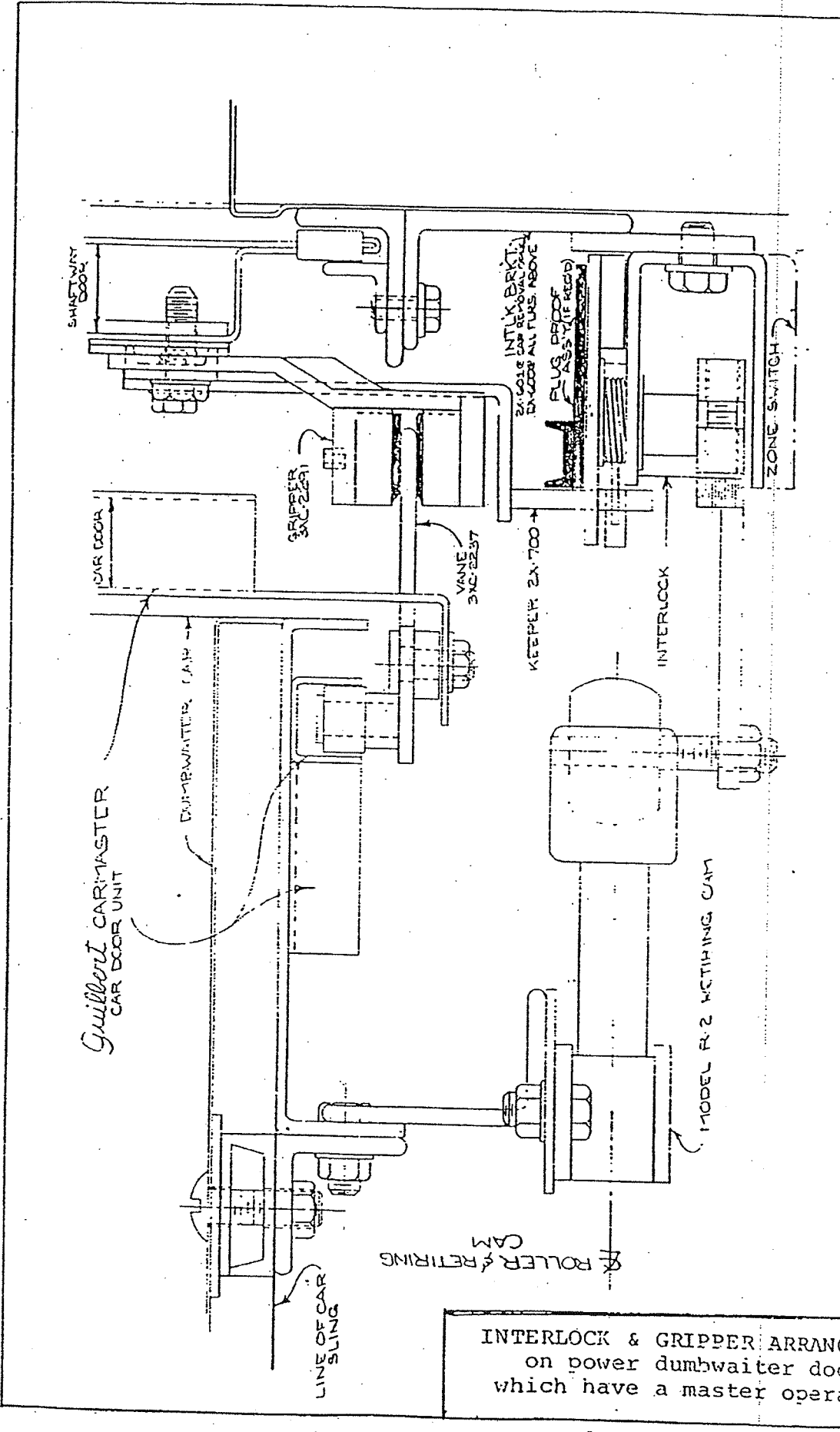


Gripper lining
and plate
CD-A00742



Gripper retainer
and screw
CD-A00742

GRIPPER PARTS FOR
MASTER OPERATED POWER
DUMBWAITER DOORS



Gullbert CAR-MASTER
CAR DOOR UNIT

DUM-BWAITER CAR

CAR DOOR

GRIPPER
3XC-2251

VANE
3XC-2237

KEEPER 2X-700

INTERLOCK

ZONE SWITCH

MODEL R-2 MATHING CAM

ROLLER & RETRING
CAM

LINE OF CAR
SLING

SHUT-WAY
DOOR

INT'LX. BRKT.
2X-705E CAR RE-TRAC. BRKT.
B-N-DOOR ALL FLUS. ABOVE

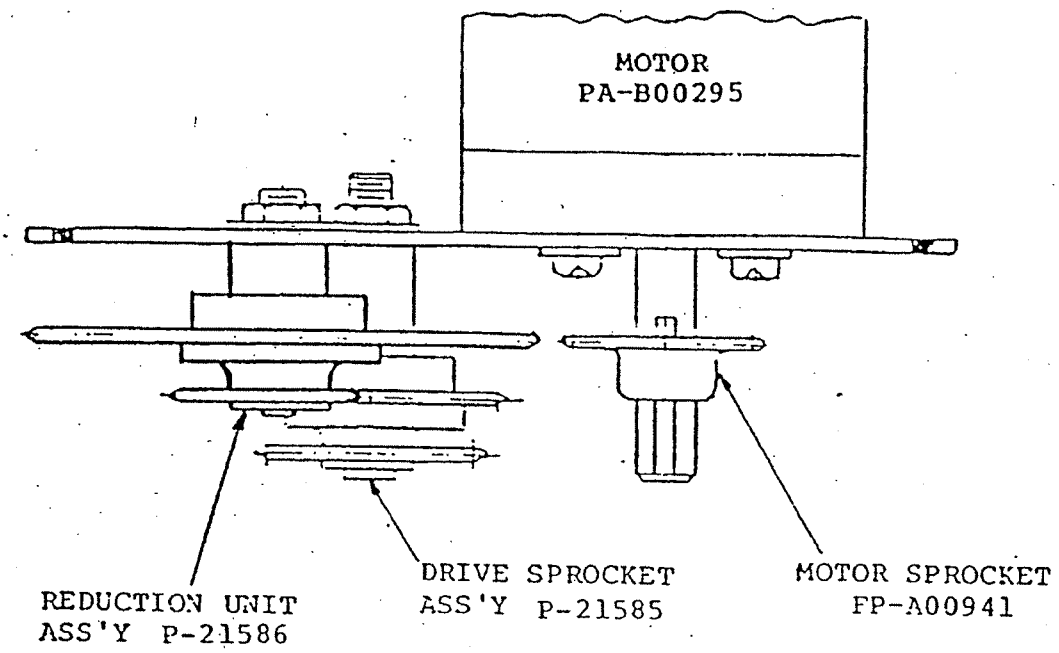
PLUS BRIDGE
2X-534 (IF BRIDGE)

INTERLOCK & GRIPPER ARRANGEMENT
on power dumbwaiter doors.
which have a master operator

PLAN STUDY - TYPE 'A' LOCK
CAR-MASTER DOORS, OR SLING
/ CAB TYPE OPENGS. IN LINE
Gullbert Inc. REV. 12-5-67
PHILADELPHIA, PA. 2X-274

RIGHT HAND SHOWING
LEFT HAND COMPOSITE

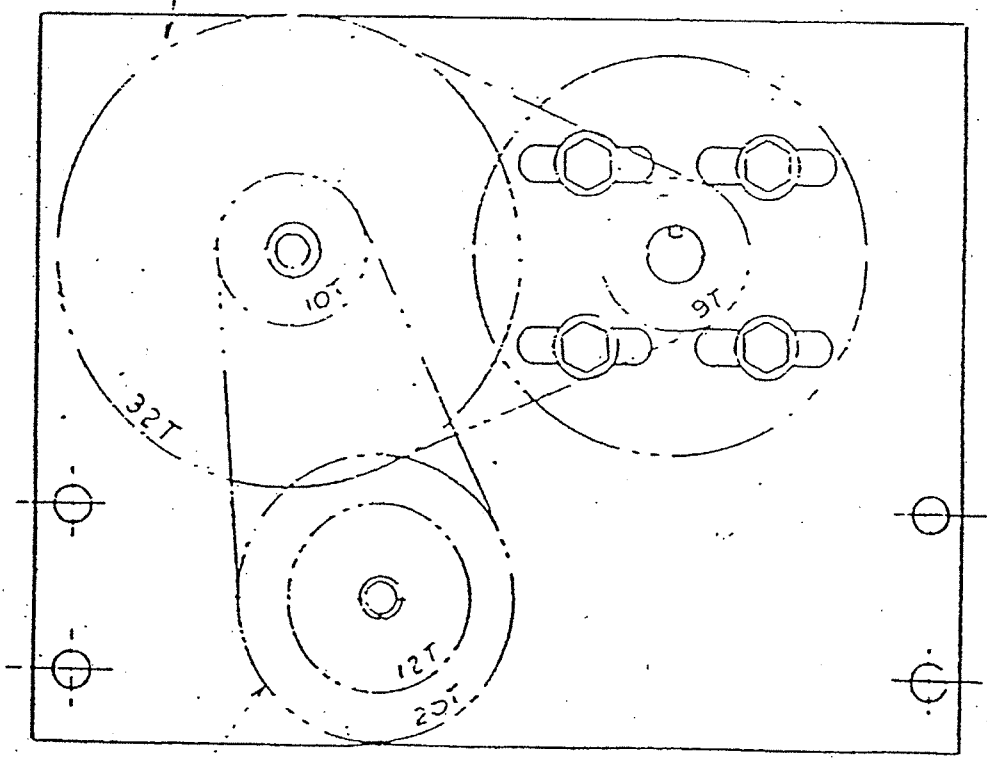
11



REDUCTION UNIT
ASS'Y P-21586

DRIVE SPROCKET
ASS'Y P-21585

MOTOR SPROCKET
FP-A00941



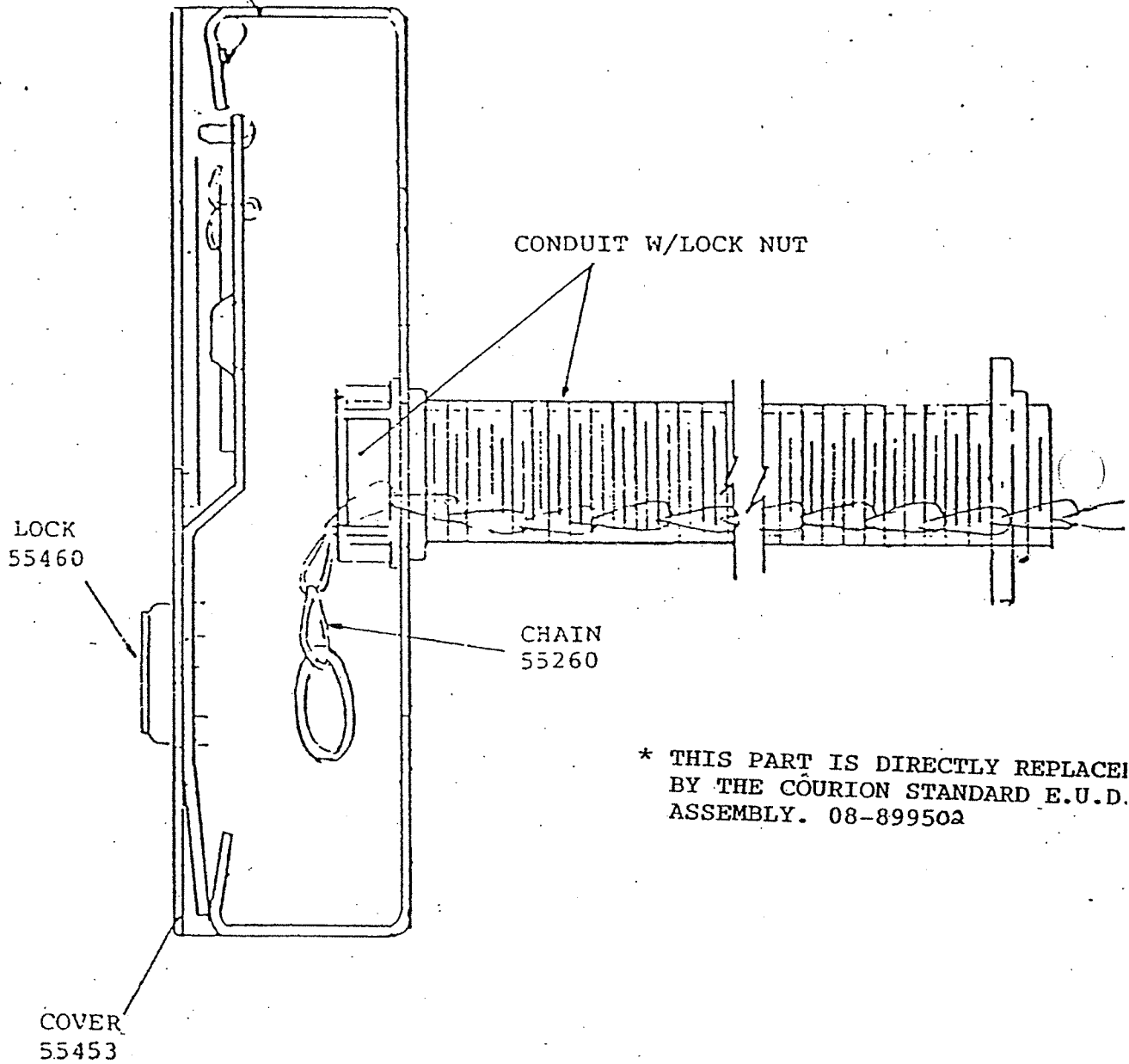
DRIVE SPROCKET
ASS'Y P-21585

COMPLETE UNIT AND PARTS ARE BASED ON SHIP DATE. IF JOB IS PRIOR TO 1978, CONTACT US & HAVE GUILBERT JOB NUMBER AVAILABLE.

DUMBWAITER
DOOR OPERATOR
P-21584
August 1978 to present.

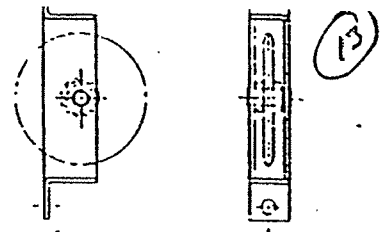
	assy. including: BOX, cover, lock, chain, conduit with lock nut.
P-26067	Box only, with lock, cover and key
55781	Cover Only
55462	Key - If used for lock installed prior to July 1, use F230 key
55260	Chain
The following item is available seperately, but does not have a number: conduit with lock nut.	

BOX
P-26067

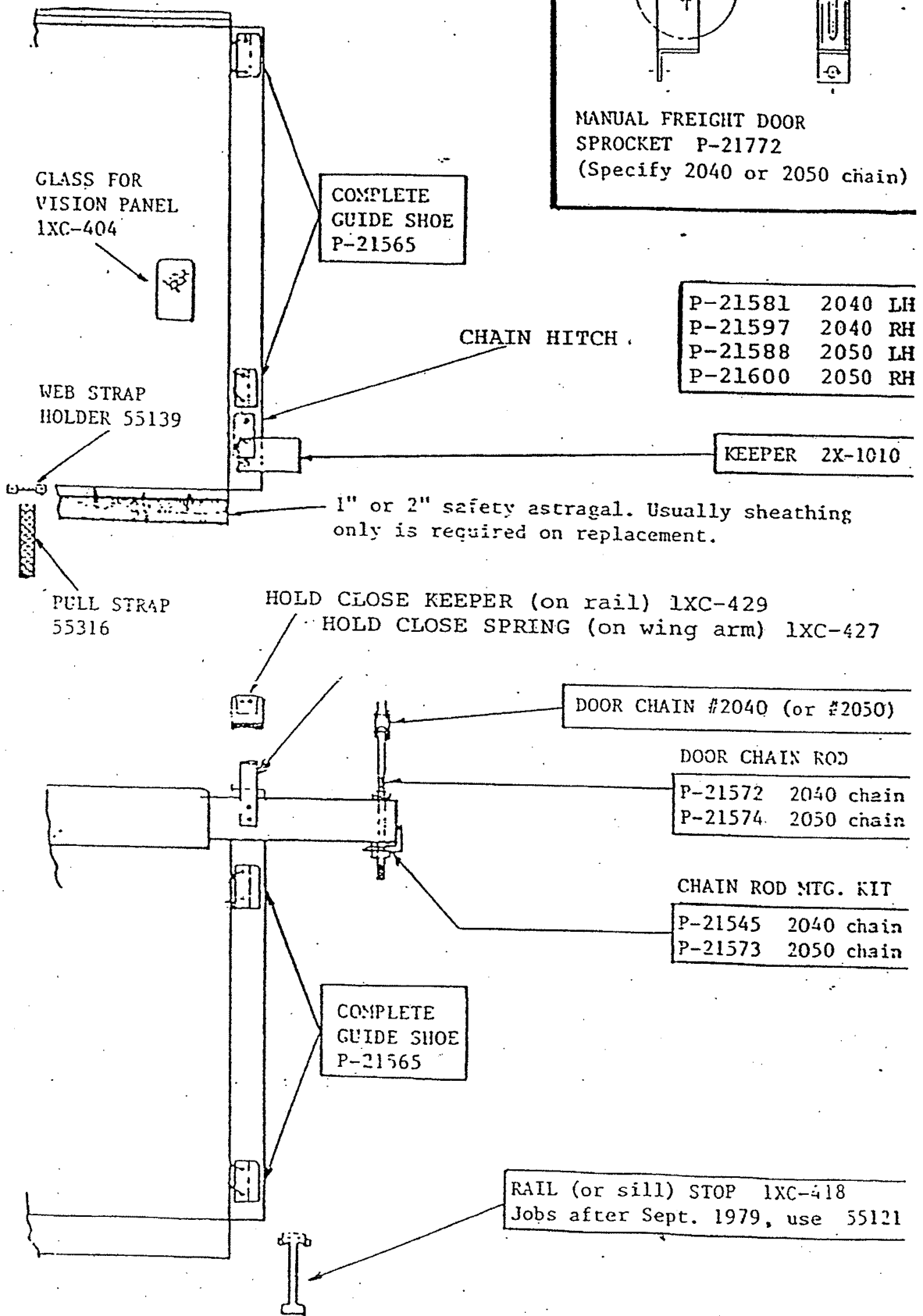


* THIS PART IS DIRECTLY REPLACED BY THE COURION STANDARD E.U.D. ASSEMBLY. 08-899502

EMERGENCY RELEASE CHAIN
TYPE WITHOUT GLASS
P-26070



MANUAL FREIGHT DOOR
 SPROCKET P-21772
 (Specify 2040 or 2050 chain)



GLASS FOR
 VISION PANEL
 1XC-404

COMPLETE
 GUIDE SHOE
 P-21565

P-21581	2040 LH
P-21597	2040 RH
P-21588	2050 LH
P-21600	2050 RH

CHAIN HITCH

WEB STRAP
 HOLDER 55139

KEEPER 2X-1010

1" or 2" safety astragal. Usually sheathing
 only is required on replacement.

PULL STRAP
 55316

HOLD CLOSE KEEPER (on rail) 1XC-429

HOLD CLOSE SPRING (on wing arm) 1XC-427

DOOR CHAIN #2040 (or #2050)

DOOR CHAIN ROD

P-21572	2040 chain
P-21574	2050 chain

CHAIN ROD MTG. KIT

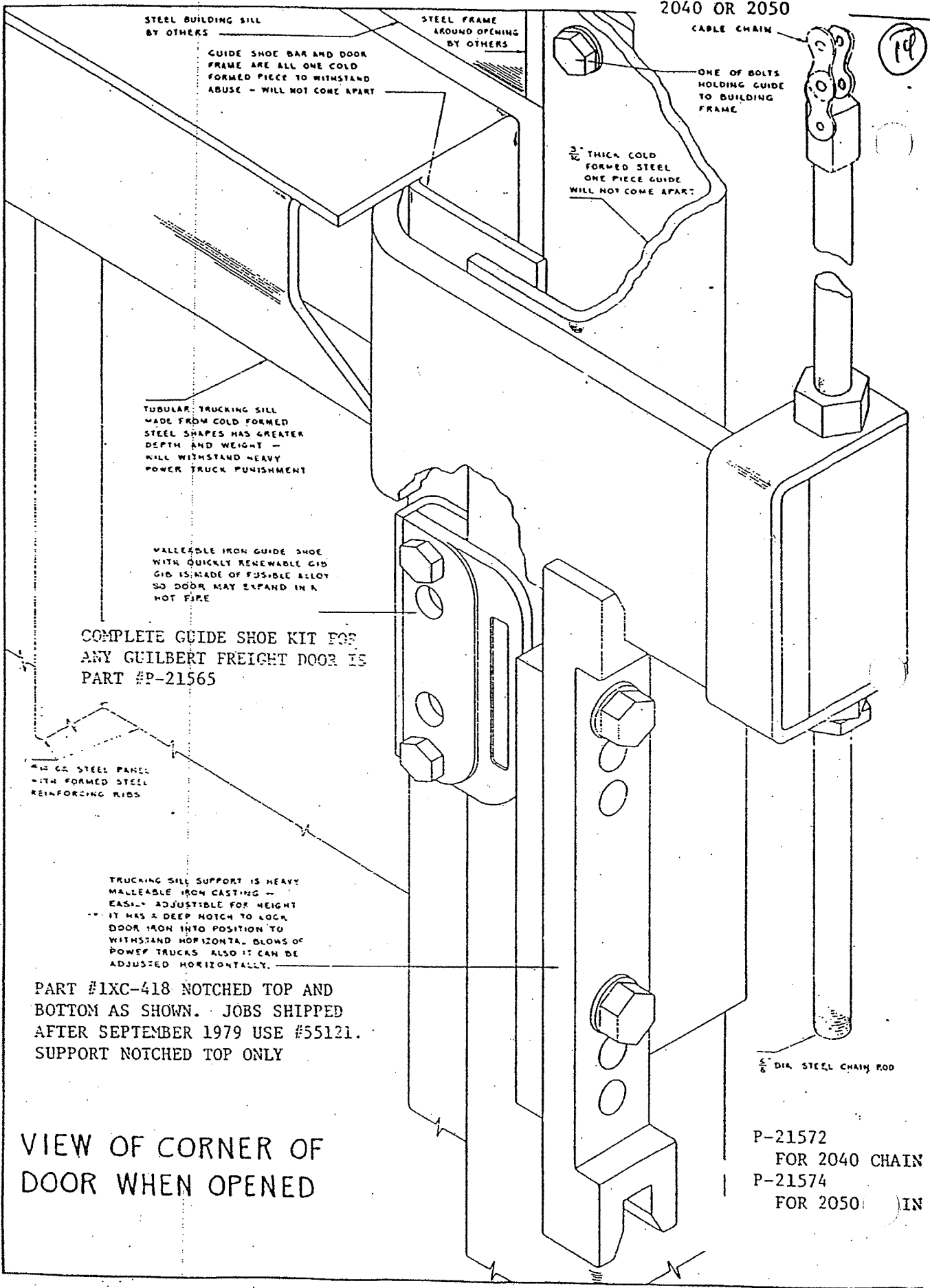
P-21545	2040 chain
P-21573	2050 chain

COMPLETE
 GUIDE SHOE
 P-21565

RAIL (or sill) STOP 1XC-418
 Jobs after Sept. 1979, use 55121

FREIGHT DOOR
 HARDWARE

2040 OR 2050



STEEL BUILDING SILL
BY OTHERS

STEEL FRAME
AROUND OPENING
BY OTHERS

GUIDE SHOE BAR AND DOOR
FRAME ARE ALL ONE COLD
FORMED PIECE TO WITHSTAND
ABUSE - WILL NOT COME APART

CABLE CHAIN

ONE OF BOLTS
HOLDING GUIDE
TO BUILDING
FRAME

3" THICK COLD
FORMED STEEL
ONE PIECE GUIDE
WILL NOT COME APART

TUBULAR TRUCKING SILL
MADE FROM COLD FORMED
STEEL SHAPES HAS GREATER
DEPTH AND WEIGHT -
WILL WITHSTAND HEAVY
POWER TRUCK PUNISHMENT

MALLEABLE IRON GUIDE SHOE
WITH QUICKLY RENEWABLE GIB
GIB IS MADE OF FUSIBLE ALLOY
SO DOOR MAY EXPAND IN A
HOT FIRE

COMPLETE GUIDE SHOE KIT FOR
ANY GUILBERT FREIGHT DOOR IS
PART #P-21565

40 GA STEEL PANEL
WITH FORMED STEEL
REINFORCING RIBS

TRUCKING SILL SUPPORT IS HEAVY
MALLEABLE IRON CASTING -
EASILY ADJUSTIBLE FOR HEIGHT
IT HAS A DEEP NOTCH TO LOCK
DOOR IRON INTO POSITION TO
WITHSTAND HORIZONTA. BLOWS OF
POWER TRUCKS ALSO IT CAN BE
ADJUSTED HORIZONTALLY.

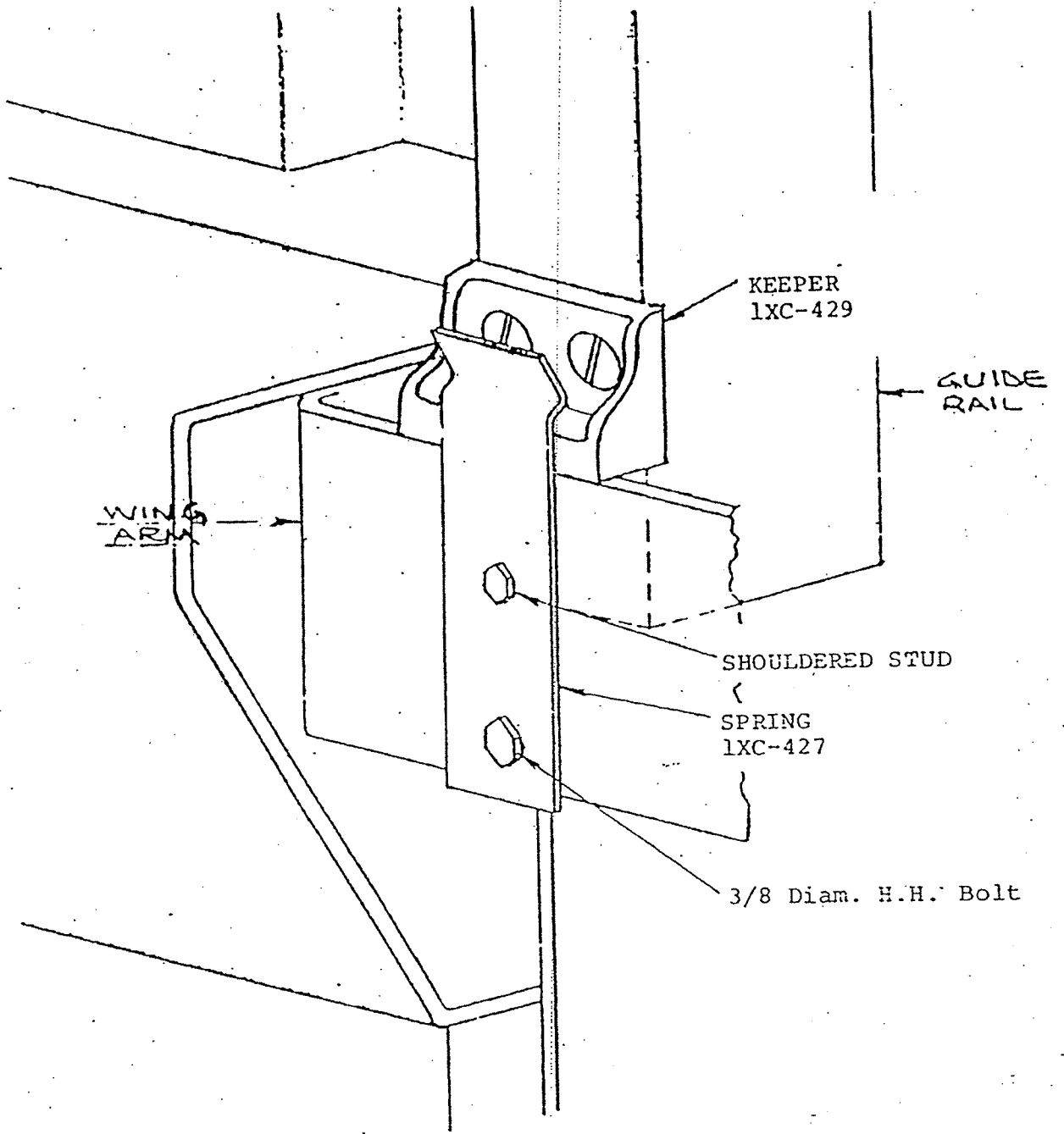
PART #1XC-418 NOTCHED TOP AND
BOTTOM AS SHOWN. JOBS SHIPPED
AFTER SEPTEMBER 1979 USE #55121.
SUPPORT NOTCHED TOP ONLY

VIEW OF CORNER OF
DOOR WHEN OPENED

5/8 DIA. STEEL CHAIN ROD

P-21572
FOR 2040 CHAIN
P-21574
FOR 2050 IN

14



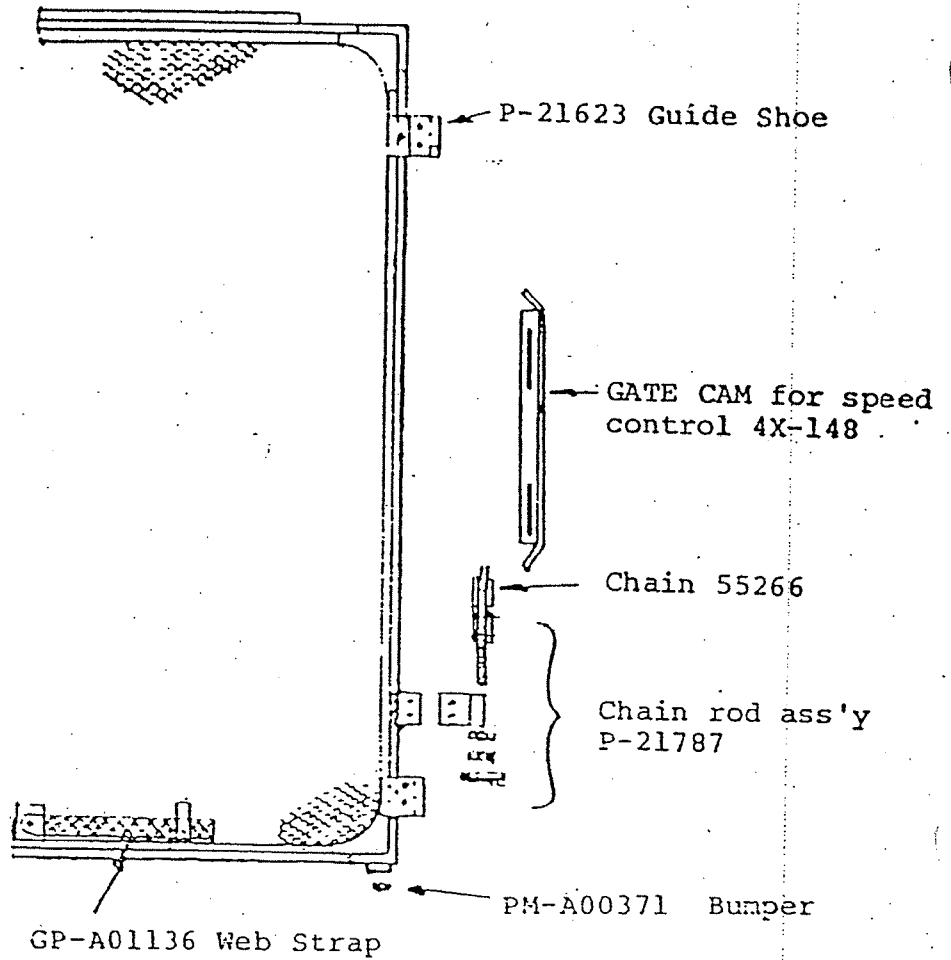
To order a complete hold close device kit, use part #P-21577. The kit includes one pair of hold close devices including: springs, keepers, shims, compressor plates and bolts

APPLICATION OF
HOLD CLOSE DEVICE
ON FREIGHT DOORS

SINGLE BLADE POWER CAR GATE PANEL

1966 - Present

16



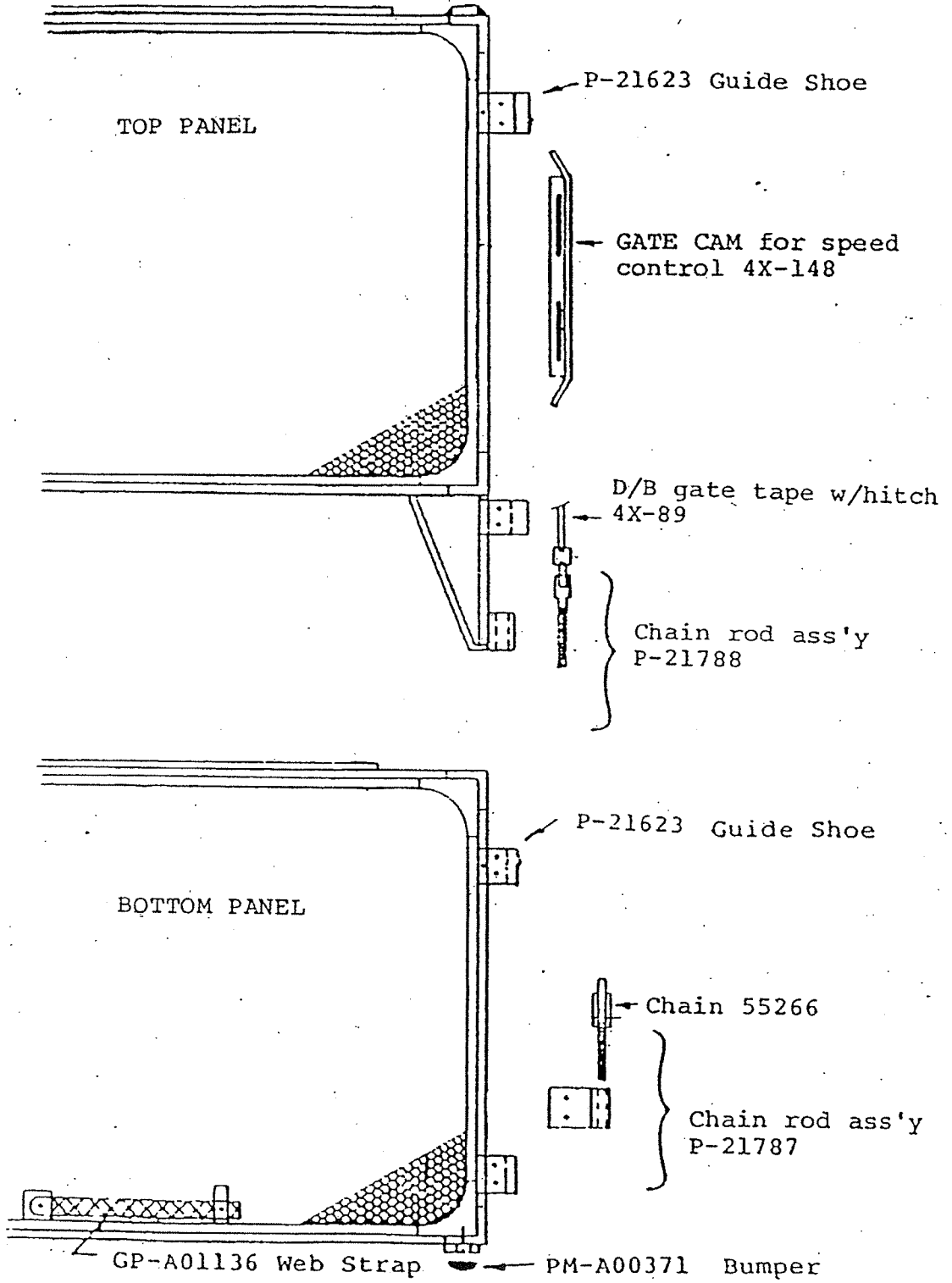
For panels with reversing edge. If the reversing edge is to be replaced, see pages on reversing edges.

SINGLE BLADE
POWER CAR GATE
PANEL

DOUBLE BLADE POWER CAR GATE PANELS

(17)

1966 - Present



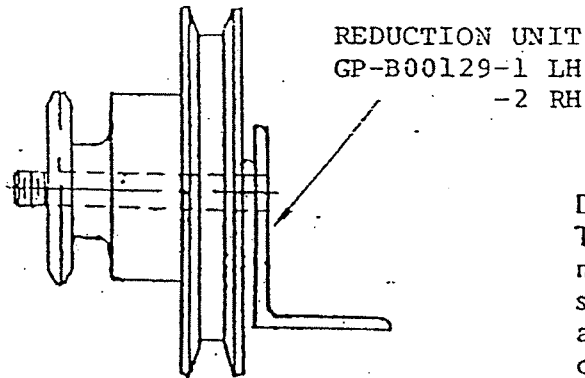
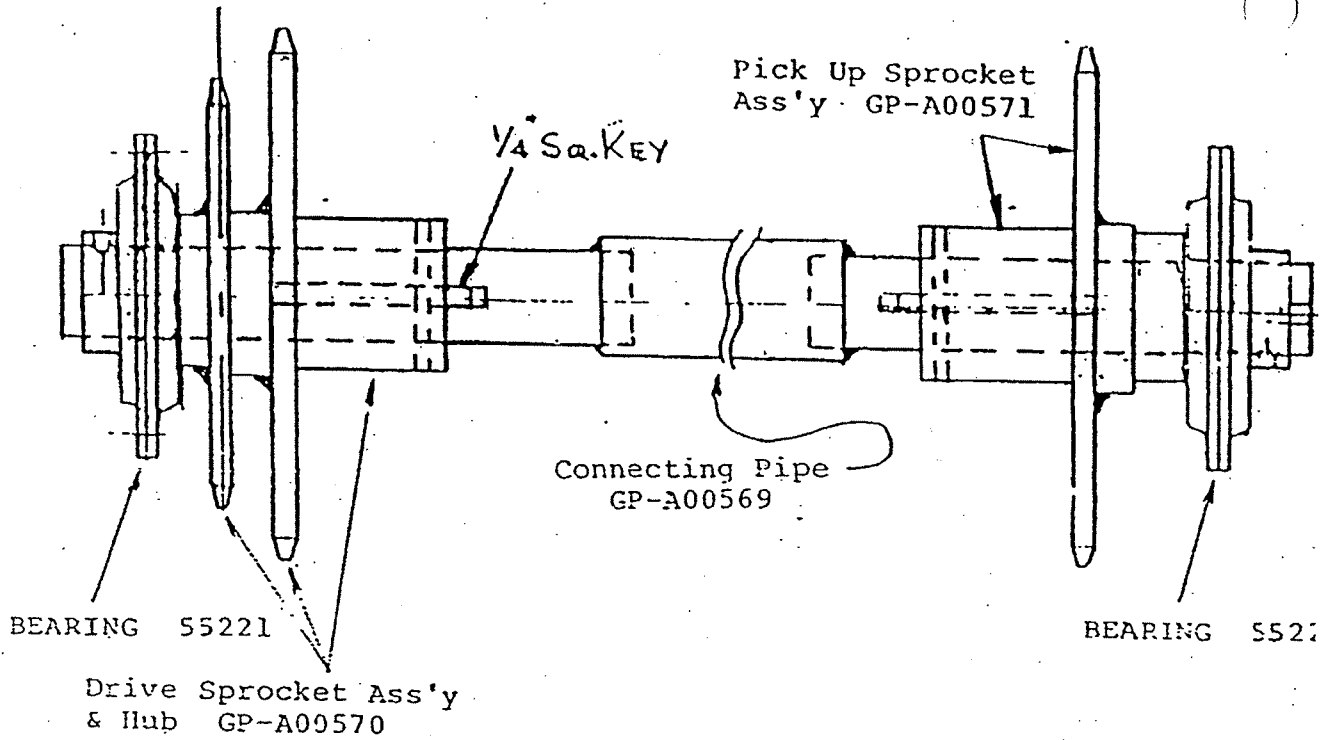
Stub assemblies include all sprockets for ONE SIDE, on a hub mounted to a stub pipe THEY DO NOT INCLUDE BEARINGS

18

L.H. STUB ASS'Y GP-A01148

R.H. STUB ASS'Y GP-A01149

For dual motor operation, use 2 L.H. stub ass'ys



REDUCTION UNIT
GP-B00129-1 LH
-2 RH

"V" BELT (NOT SHOWN)
55222

DO NOT USE FOR GATES PUT IN PRIOR TO 1966. If your gate is driven by an AC motor, the entire power drive and braking system is obsolete. Parts are no longer available. It is advisable to order a complete power header. This includes all of the material shown, in a frame, prepared for mounting to the existing weight boxes. Order by part number GP-D00046, also give us the original Guilbert job number.

POWER HEADER
single blade
car gate

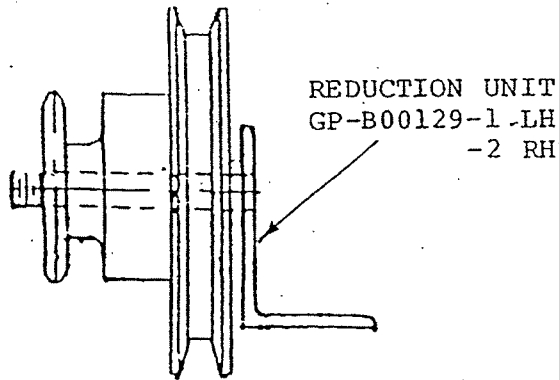
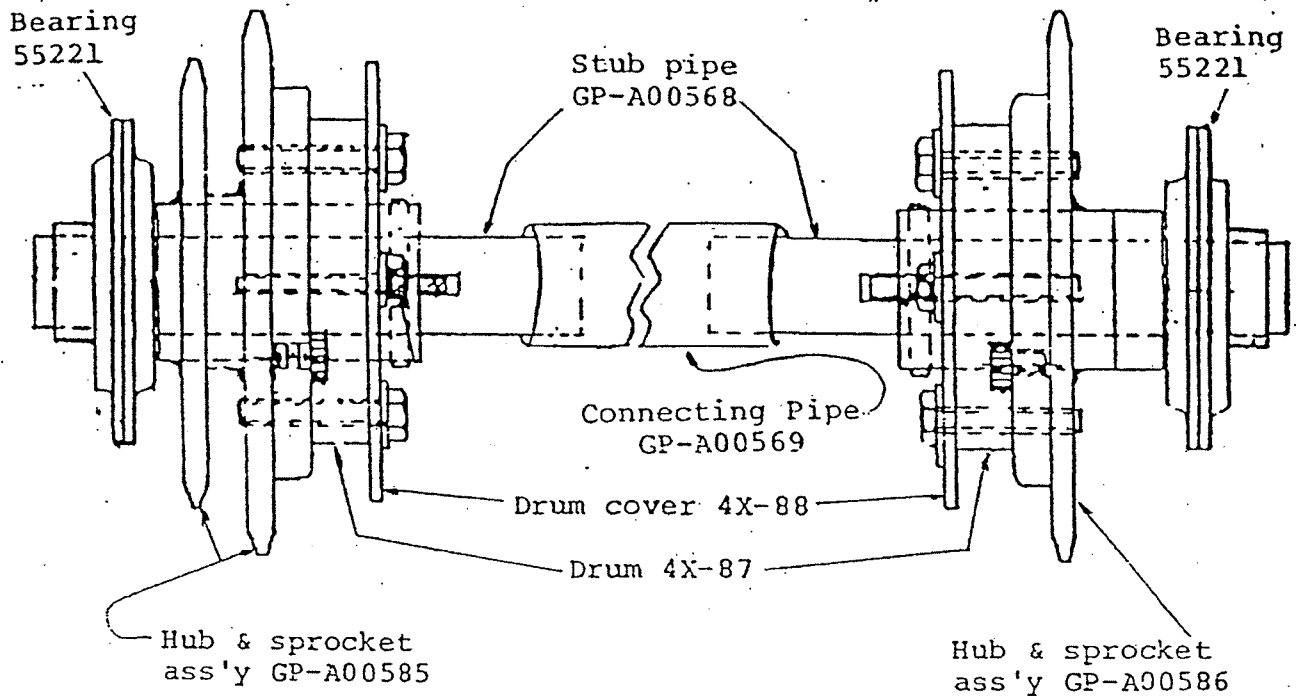
for ONE SIDE, on a hub mounted to a stub pipe.
THEY DO NOT INCLUDE BEARINGS

(19)

L.H. STUB ASS'Y GP-A01146

R.H. STUB ASS'Y GP-A01147

For dual motor operation, use 2 L.H. stub ass'ys

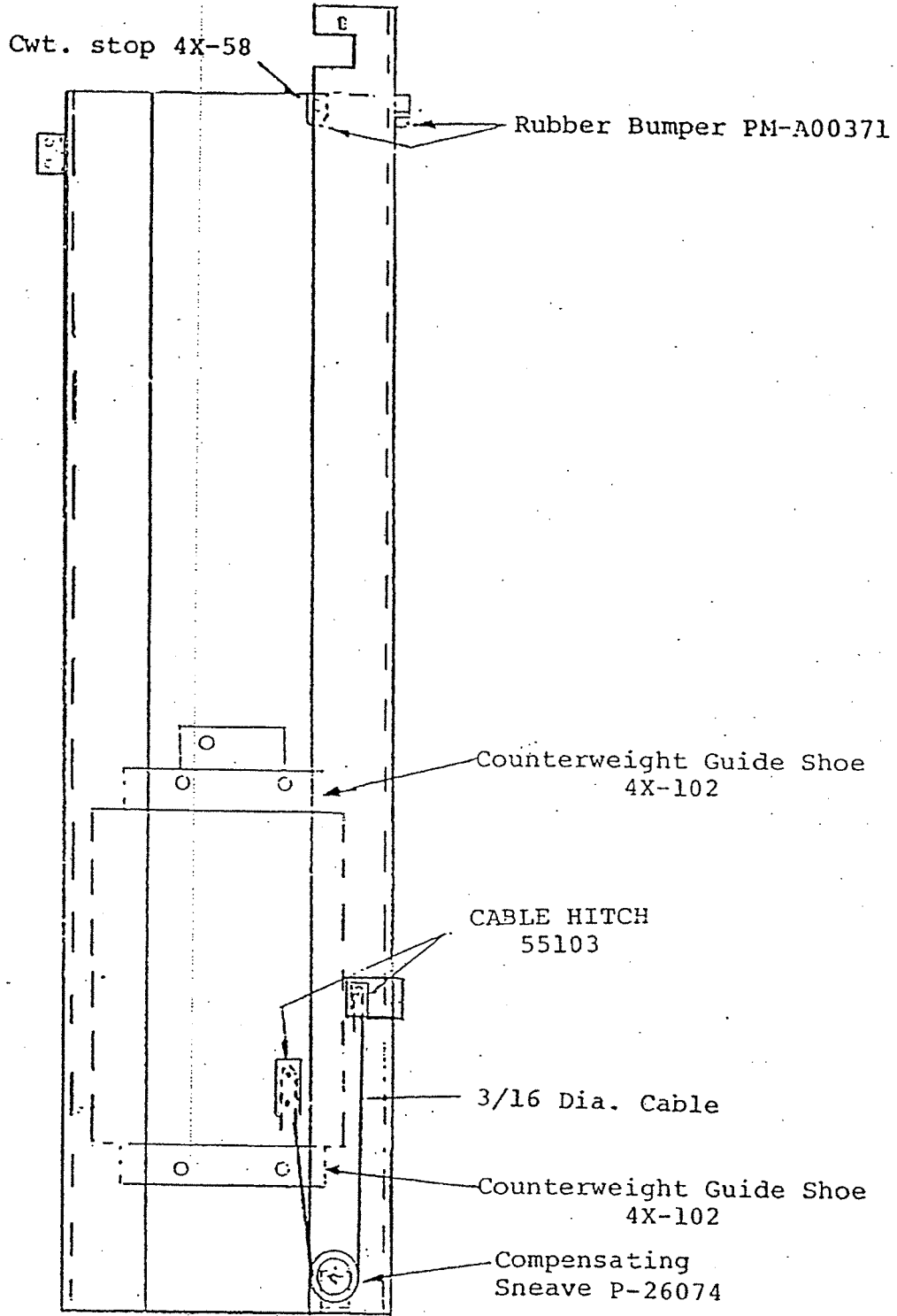


"V" BELT (NOT SHOWN)
55222

DO NOT USE FOR GATES PUT IN PRIOR TO 1966. If your gate is driven by an AC motor, the entire power drive and braking system is obsolete. Parts are no longer available. It is advisable to order a complete power header. This includes all of the material shown, in a frame, prepare for mounting to the existing weight boxes. Order by part number GP-D00096 also give us the original Guilbert job number.

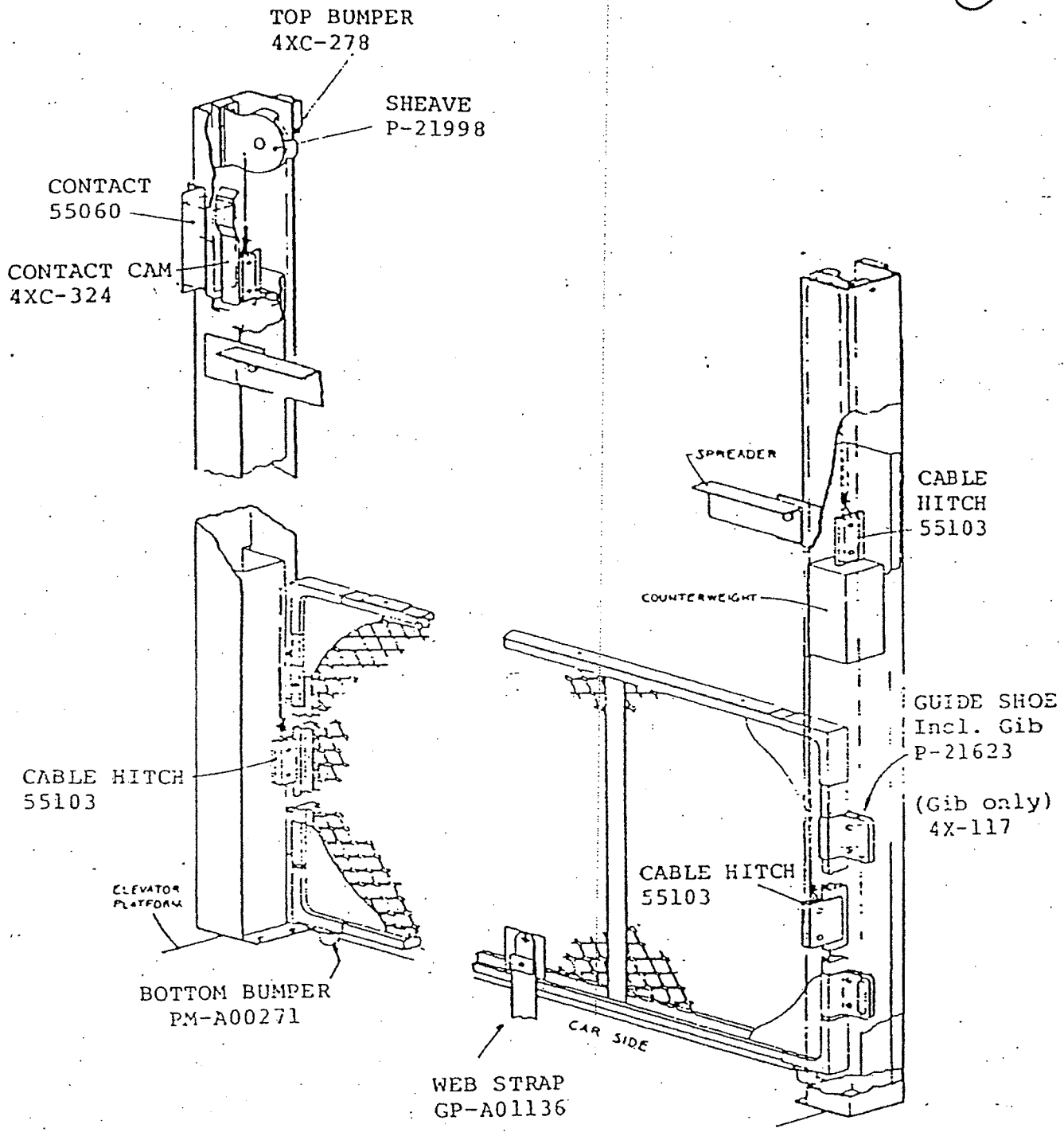
POWER HEADER
double blade
car gate

MISCELLANEOUS HARDWARE ON POWER GATE WEIGHT BOX
1966 TO PRESENT

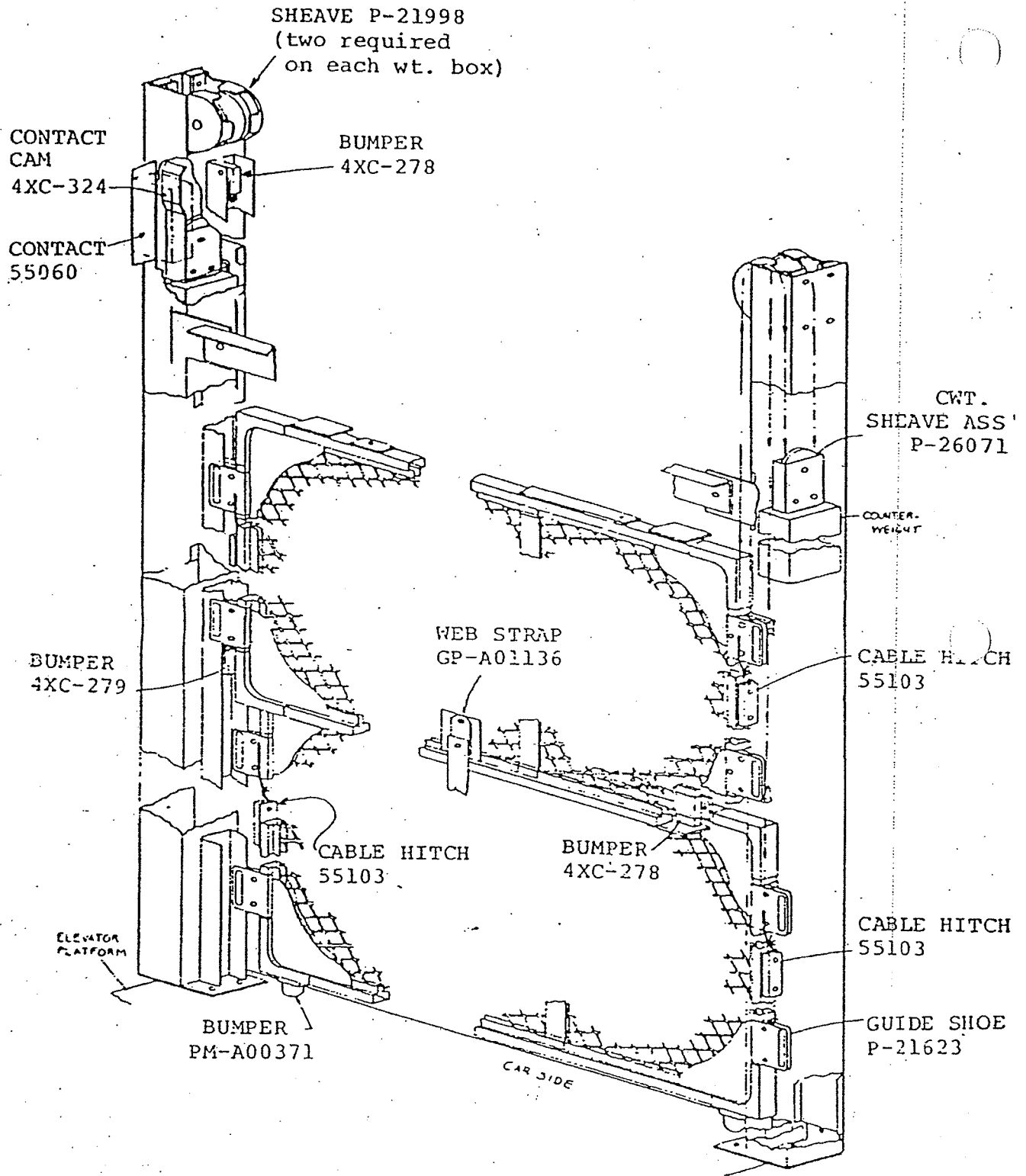


POWER CAR GATE
WEIGHT BOX
misc. hardware

20

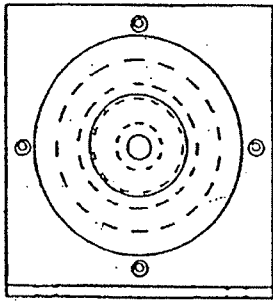
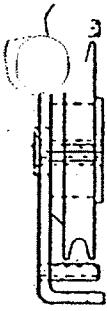


22

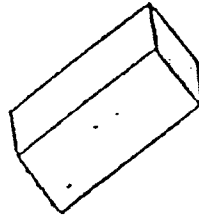


MANUAL GATE PARTS

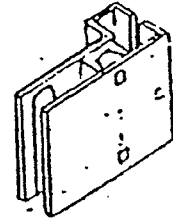
23



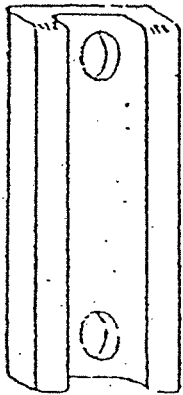
P-21998
SHEAVE ASSEMBLY



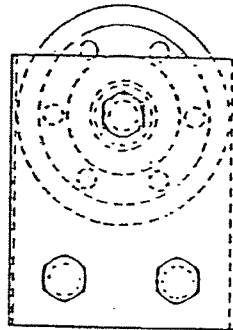
4XC-278
RUBBER BUMPER



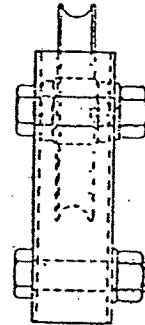
P-21623
GUIDE SHOE
Complete, Incl.
2 Covers & Gib



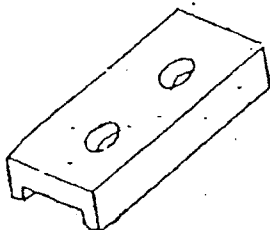
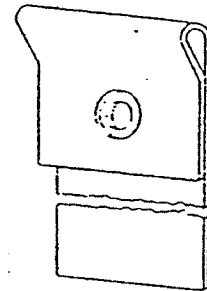
4X-117
GUIDE SHOE GIB



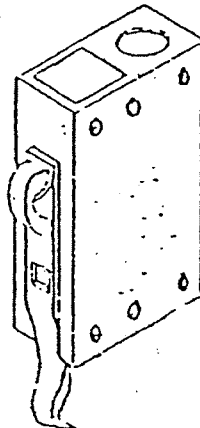
P-26071
COUNTERWEIGHT SHEAVE



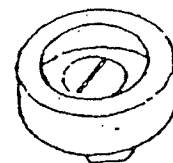
GP-A01136
PULL STRAP



4XC-125
CABLE HITCH



55060
6B CONTACT
OBSOLETE



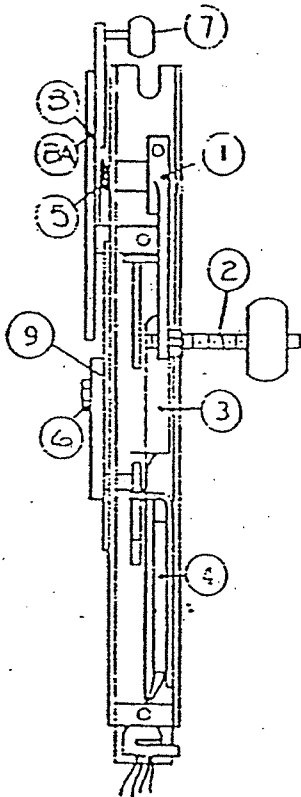
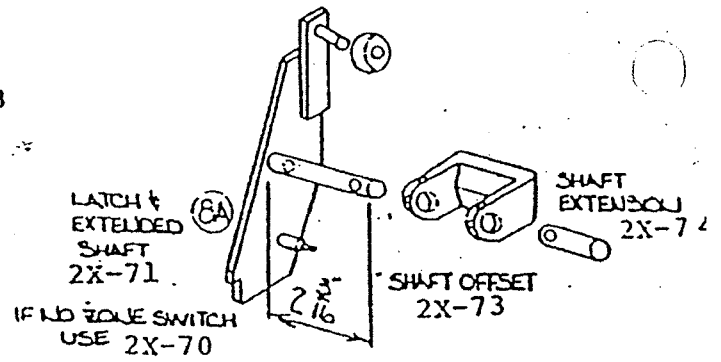
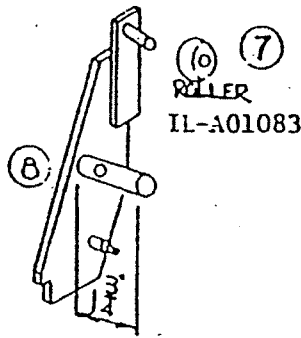
PM-A00371
BUMPER and BOLT

LEFT HAND PARTS ARE OPPOSITE. PLEASE DESIGNATE "HAND" WHEN ORDERING ANY INTERLOCK PARTS.

24

Standard latch & shaft for use with zone switch
MA-A00531
Designate "Hand"

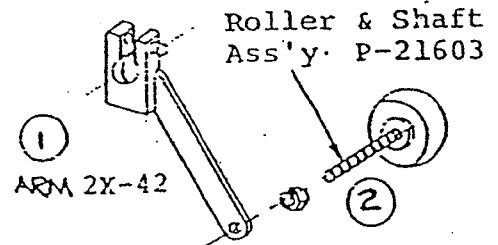
IF NO ZONE SWITCH
USE 2X-19



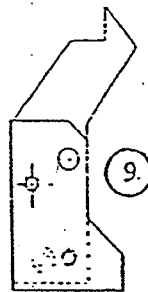
CAR SIDE
ELEVATION
RH. 12-2 INTERLOCK



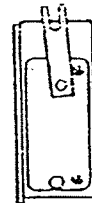
PH-A0037



Roller arm ass'y IL-B09389
(Incl. arm, roller & shaft)
Designate "Hand"



CONTACT CAM
MA-A00543-1 (RH)
MA-A00543-2 (LH)



Contacts

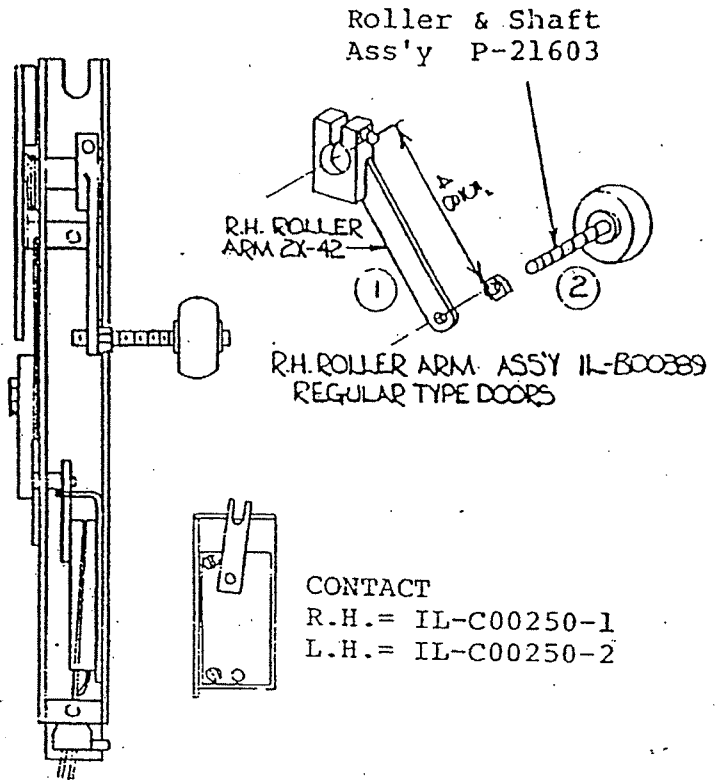
- 3 RH top IL-C00251-1
- 3 LH top IL-C00251-2
- 4 RH bottom IL-C00250-1
- 4 LH bottom IL-C00250-2

Interlock Only	RH	For power doors (set up for zone switch)	P-21758
"	"	RH With zone switch attached	P-21678
"	"	RH For manual doors	P-21680
"	"	LH For power doors (set up for zone switch)	P-21676
"	"	LH With zone switch attached	P-21677
"	"	LH For manual doors	P-21679

DOUBLE CONTACT
INTERLOCK

THE DRAWINGS SHOW PARTS FOR RIGHT HAND INTERLOCKS.
 LEFT HAND PARTS ARE OPPOSITE. PLEASE DESIGNATE
 "HAND" WHEN ORDERING INTERLOCK PARTS.

25



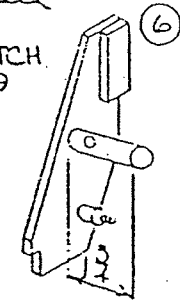
PH-A0037



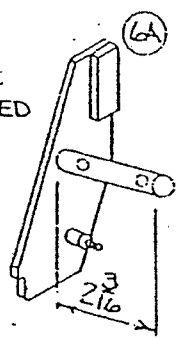
SPRING
 55086
 Designate
 "Hand"

CAR SIDE
 ELEVATION
 R.H. AS-1 INTERLOCK

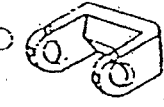
STANDARD LATCH
 & SHAFT 2X-9



LATCH &
 EXTENDED
 SHAFT
 2X-10



SHAFT OFFSET
 2X-73



SHAFT EXTENSION
 2X-74



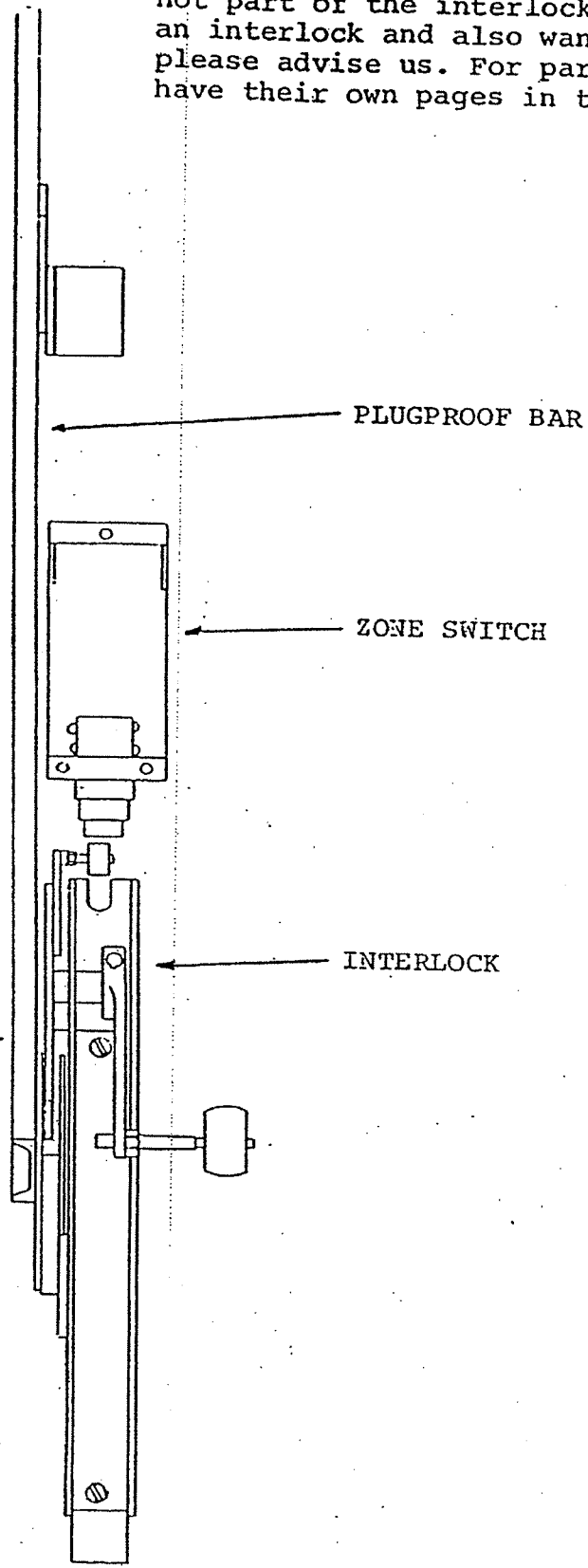
VARIES

Interlock Complete RH = P-21688
 LH = P-21687

AS-1
 SINGLE CONTACT
 INTERLOCK

26

NOTE: The plugproof bar and zone switch are not part of the interlock. If you are ordering an interlock and also want a p.p.bar or zone switch, please advise us. For parts information, both items have their own pages in this book.

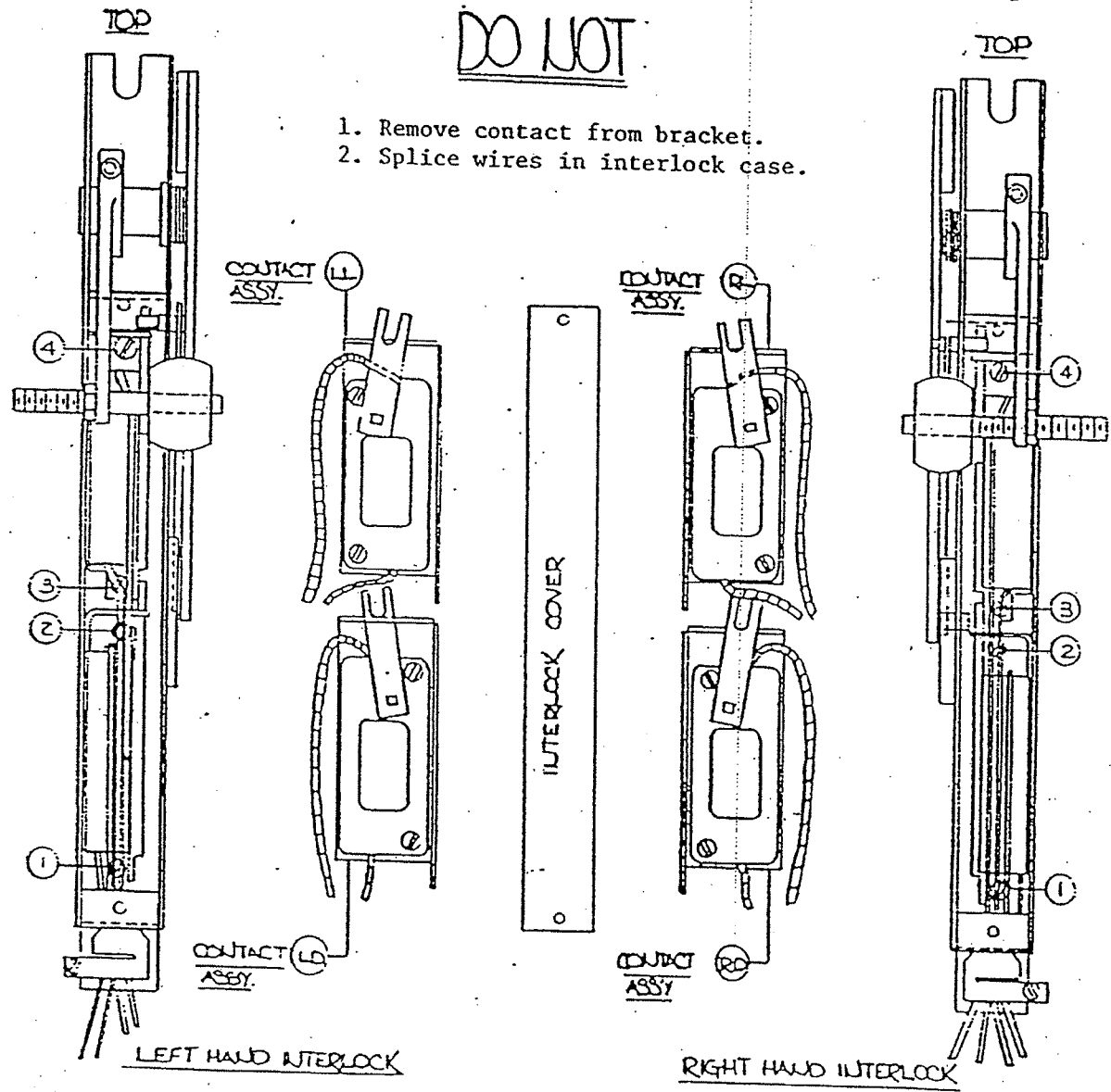


AR-2 INTERLOCK
Showing position of
the plugproof bar &
zone switch.

1. REMOVE THE TWO SCREWS FROM INTERLOCK COVER AND REMOVE COVER.
2. CHECK COLOR OF LEADS OF CONTACT TO BE REPLACED AND DISCONNECT AT JUNCTION BOX, MARK CONNECTIONS BEFORE PULLING WIRES. ATTACH PULL WIRE TO LEADS FOR EASE IN WIRING CONTACT THROUGH CONDUIT.
3. REMOVE SCREWS 1 AND 2 WITH SCREWDRIVER (PREFERABLE SPLIT-END TYPE). REMOVE CONTACT ASSEMBLY. NOTE: IF UPPER CONTACT ASSEMBLY IN AR-2 INTERLOCK IS TO BE REPLACED, BOTTOM CONTACT SCREWS 1 AND 2 MUST BE REMOVED AND CONTACT ASSEMBLY MOVED CLEAR BEFORE SCREWS 3 AND 4 ARE REMOVED.
4. INSTALL NEW CONTACT ASSEMBLIES AS REQUIRED AND PULL WIRES TO JUNCTION BOX AND MAKE PROPER CONNECTIONS.
5. REPLACE INTERLOCK COVER.

DO NOT

1. Remove contact from bracket.
2. Splice wires in interlock case.



NOTE
 AR-2 (DOUBLE CONTACT) INTERLOCK IS SHOWN
 AS-1 (SINGLE CONTACT) INTERLOCK CONTAINS
 BOTTOM CONTACT ONLY

Instructions For Replacement
 Of Contact Assemblies
 In Interlocks

(28)

SPECIAL INTERLOCKS
Instructions for Ordering

Explosion-proof interlocks (NEMA 7) identified as Guilbert MX lock.
Water-proof (NEMA 4) identified as Guilbert MW lock.

The MX and MW designations are not part numbers, they only identify the type of lock. The part number is based on the vintage, the "hand" and presence of a plugproof bar. We must obtain the information below. After you obtain the information requested below, call us with your order. Do not send in a purchase order before calling first. These locks are very special and very expensive. They will be made based on the information you give us. The lock will not be returnable, if we send the wrong lock based on incorrect information given to us. If you follow the steps below, ordering will be very simple.

Step 1: Try to give us the Guilbert job number and the door on which the lock is to be used. The job number is the same as the drawing number. On power jobs, the job number may be found on the Guilbert controller. If you have this information, and the job was put in after 1960, skip Steps 2, 3 and 4.

Step 2: Try to determine the vintage of the lock. They fall into 3 categories

- A. Locks made prior to July 1974.
- B. Locks made from July 1974 to July 1983.
- C. Locks made after July 1983.

If this cannot be determined, we must have the year of installation and the installing elevator company so that we may attempt to locate the job folder.

Step 3: Determine the "hand" of the lock, standing on the car looking out.

Step 4: Determine if the lock has a plugproof bar. If the job has a plugproof bar and if we are to replace same we must have the exact opening height of the door. If the lock was made before 1983 and has a plugproof bar, the replacement lock must be made with a plugproof bar attached. They will not be interchangeable.

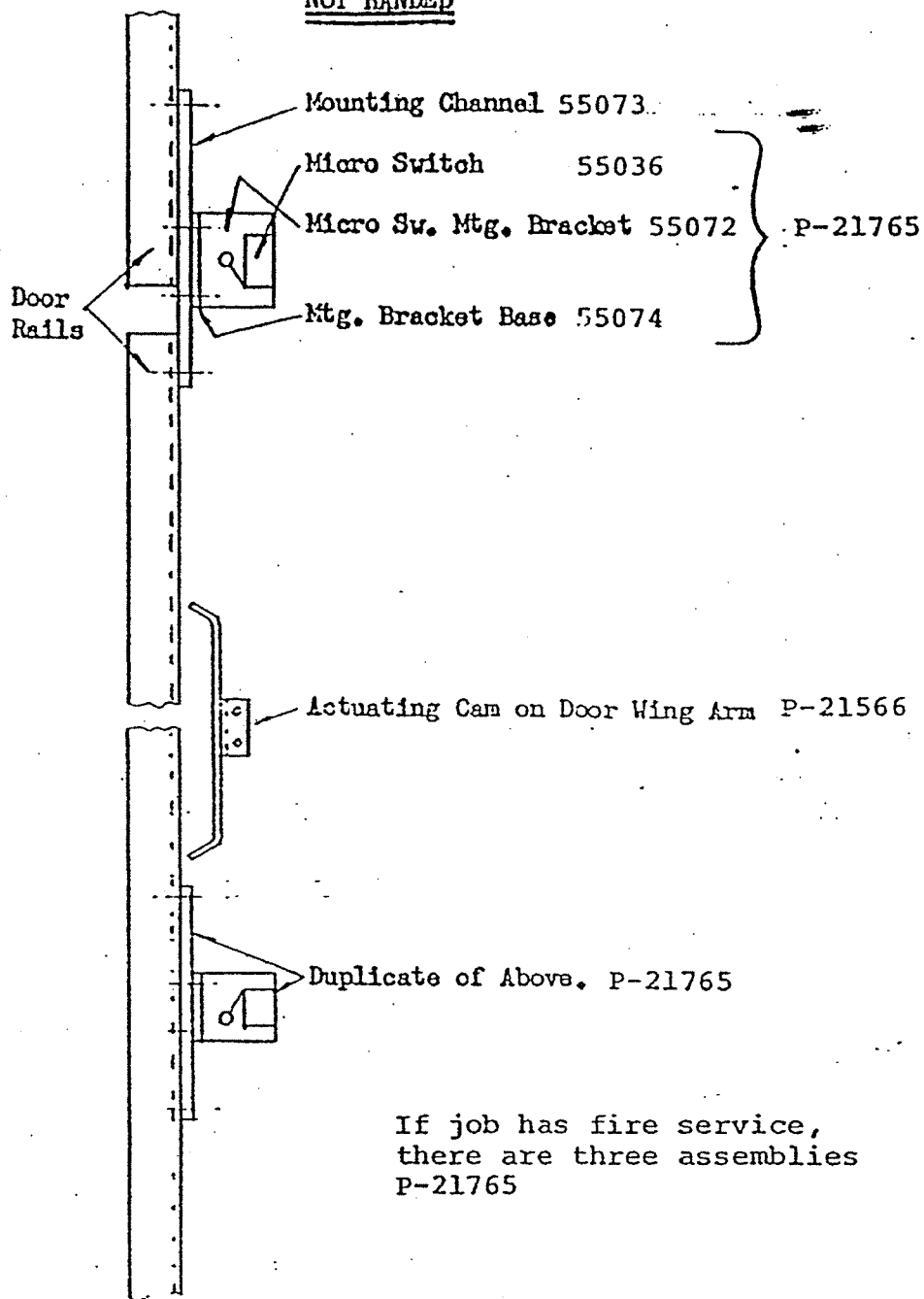
Step 5: Place the order by phone. Individual servicing the job, familiar with the requirements, should place the call.

Step 6: Spare parts are NOT available for these locks, either send us the old lock or replace complete interlock.

INDIVIDUAL DOOR LIMIT SWITCH

29

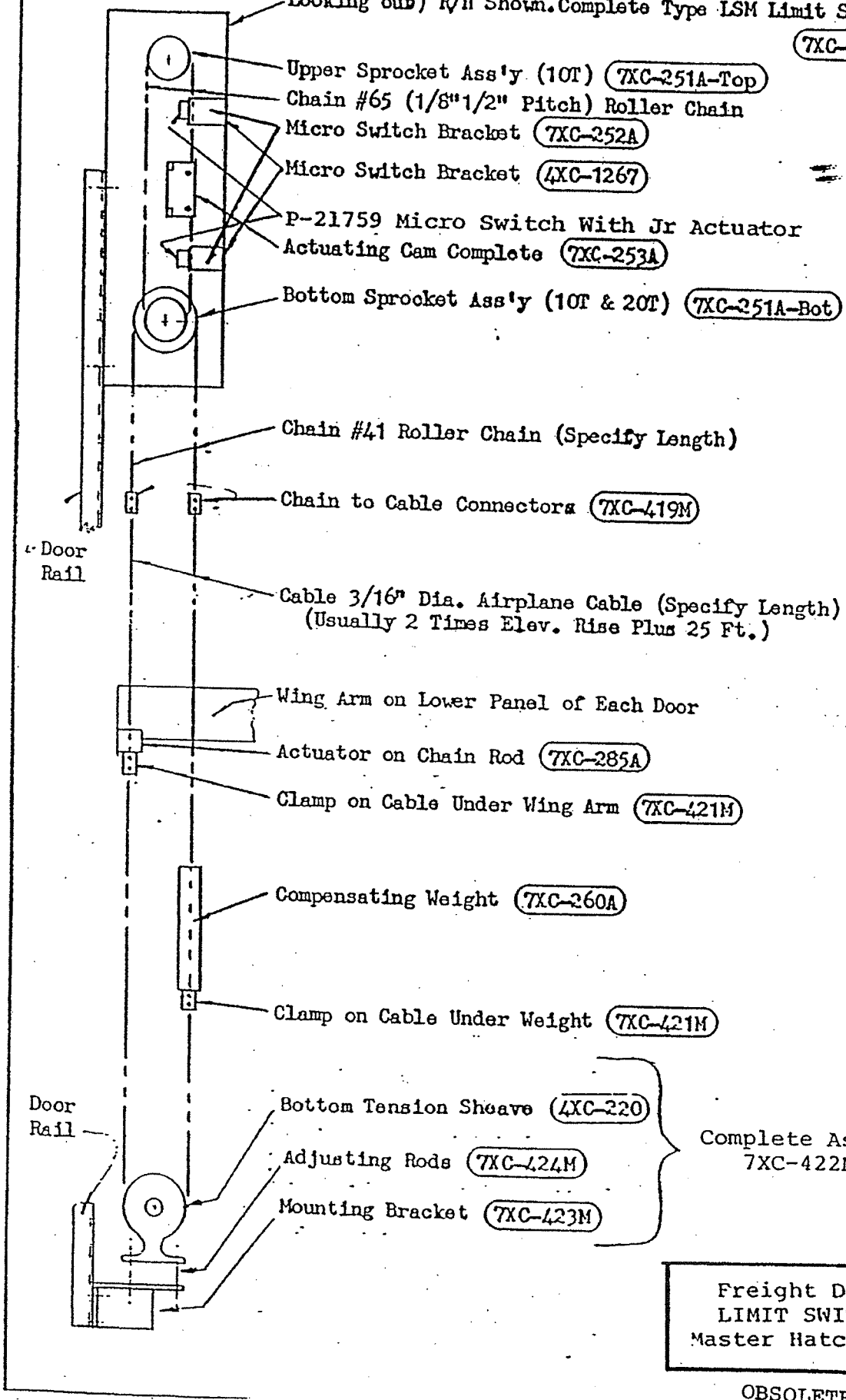
NOT HANDED



If job has fire service,
there are three assemblies
P-21765

Specify Hand of Ass'y if Complete Unit is Required (Standing in Car Looking out) R/H Shown. Complete Type LSM Limit Sw. Ass'y

7XC-246A



Upper Sprocket Ass'y (10T) 7XC-251A-Top

Chain #65 (1/8" 1/2" Pitch) Roller Chain

Micro Switch Bracket 7XC-252A

Micro Switch Bracket 4XC-1267

P-21759 Micro Switch With Jr Actuator

Actuating Cam Complete 7XC-253A

Bottom Sprocket Ass'y (10T & 20T) 7XC-251A-Bot

Chain #41 Roller Chain (Specify Length)

Chain to Cable Connectors 7XC-419M

Door Rail

Cable 3/16" Dia. Airplane Cable (Specify Length) (Usually 2 Times Elev. Rise Plus 25 Ft.)

Wing Arm on Lower Panel of Each Door

Actuator on Chain Rod 7XC-285A

Clamp on Cable Under Wing Arm 7XC-421M

Compensating Weight 7XC-260A

Clamp on Cable Under Weight 7XC-421M

Door Rail

Bottom Tension Sheave 4XC-220

Adjusting Rods 7XC-424M

Mounting Bracket 7XC-423M

Complete Ass'y 7XC-422M

Freight Door
LIMIT SWITCH
Master Hatch Type

OBSOLETE

GATE CAM
(4X-148)

Counterweight cam
shown with gate in
closed position.

Counterweight
cam 4X-147

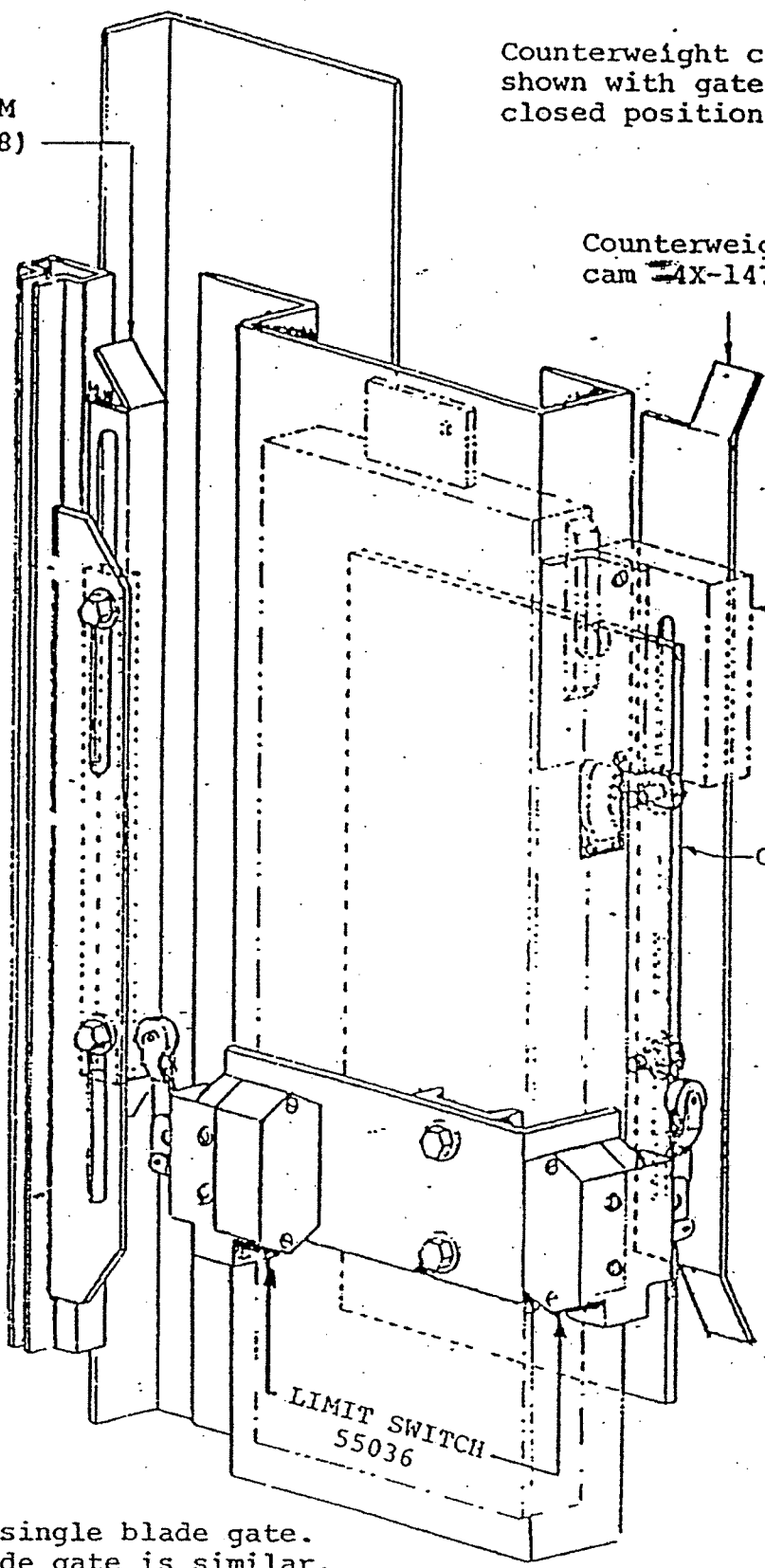
SAFETY
CONTACT

CWT. SHOE

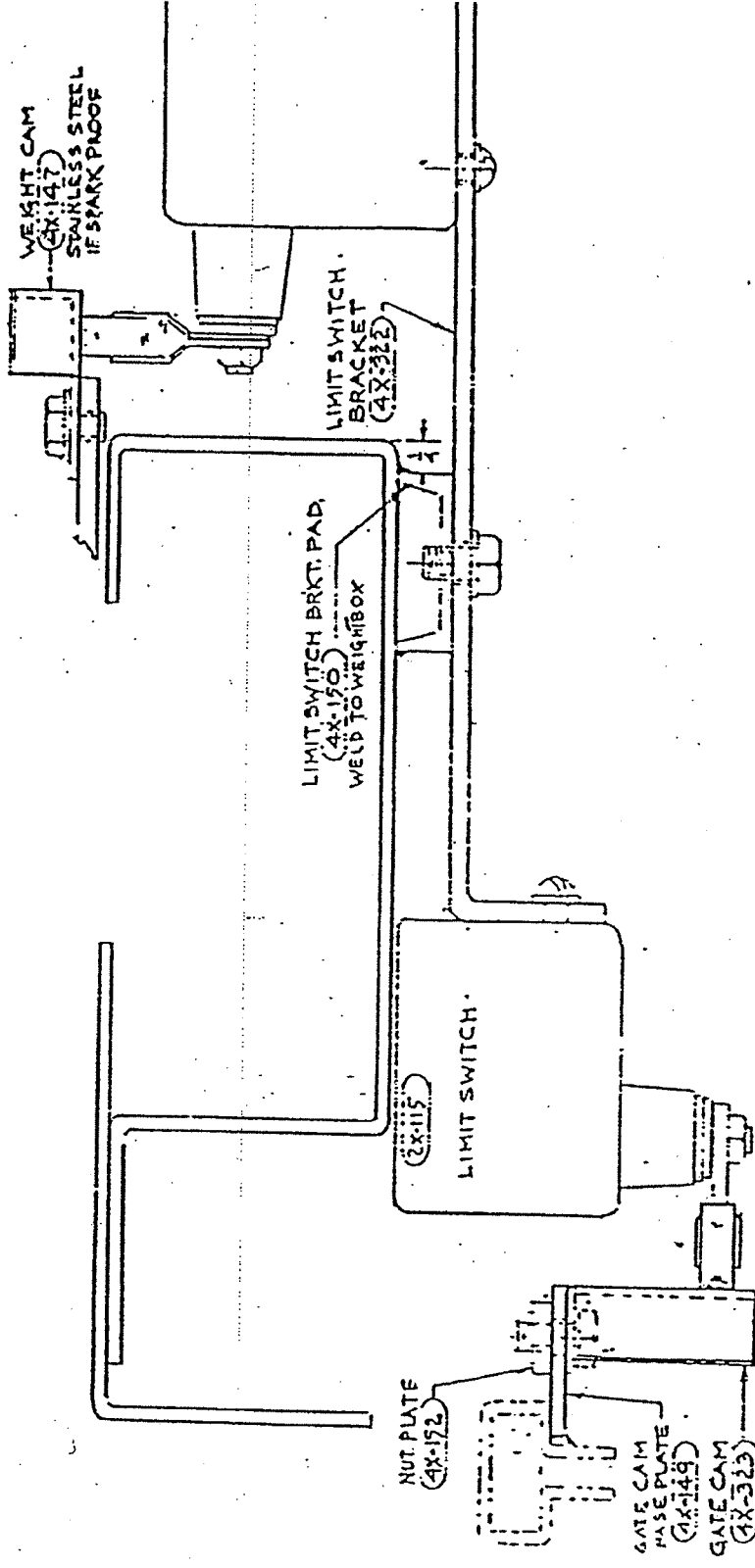
LIMIT SWITCH
55036

Shown for single blade gate.
Double blade gate is similar.
Gate cam assembly is shown
with gate in extreme open
position.

GATE LIMIT SWITCH
ASSEMBLY



EXPLOSION-PROOF & SPARK-PROOF CONSTRUCTION



PLAN VIEW

NOTE: MOUNT ON SIDE
OPPOSITE INTERLOCK.

LIMIT SWITCH ASSEMBLY
sparkproof & explosion proof
for power gates

MOTORS FOR OPERATORS

33

- A. AC MOTORS - THESE WERE USED PRIOR TO 1964. THEY ARE OBSOLETE AND NO LONGER AVAILABLE EITHER FROM GUILBERT OR THE MANUFACTURER.
- B. DC MOTORS FOR MASTER OPERATORS (1/2 HP) - MASTER OPERATORS WERE USED PRIOR TO 1971. THE MOTORS ARE OBSOLETE AND NO LONGER AVAILABLE EITHER FROM GUILBERT OR THE MANUFACTURER.
- C. DC MOTORS FOR OUR STANDARD INDIVIDUAL OPERATOR (SINGLE OR DUAL MOTOR). - 95V, 1/16 HP.
 - 1. FOR JOBS 1964 THRU 1968 - ELECTROMAGNET MOTOR - THESE OPERATORS USE OUR CURRENT STANDARD REPLACEMENT MOTOR, BUT WE MUST PROVIDE AN ADAPTER PLATE WITH THE NEW MOTOR SO THAT IT CAN BE MOUNTED ON THE OLD OPERATOR. WE ALSO PROVIDE A WIRING DIAGRAM WHICH SHOWS CONVERSION TO A PERMANENT MAGNET MOTOR.
 - 2. FOR JOBS 1969 THRU THIS PRINTING - YOU MAY USE OUR CURRENT STANDARD 95V PERMANENT MAGNET MOTOR WITH NO MODIFICATION.

IF THE JOB HAS SPECIAL ELECTRICAL REQUIREMENTS, SUCH AS EXPLOSION OR DUST PROOF, WE MUST BE ADVISED. IF JOB HAS DUAL OPERATORS, WE MUST ALSO BE ADVISED.

OPERATOR OR IDLER UNITS: (INCLUDING SPROCKETS, CHAIN OR COMPLETE UNITS)

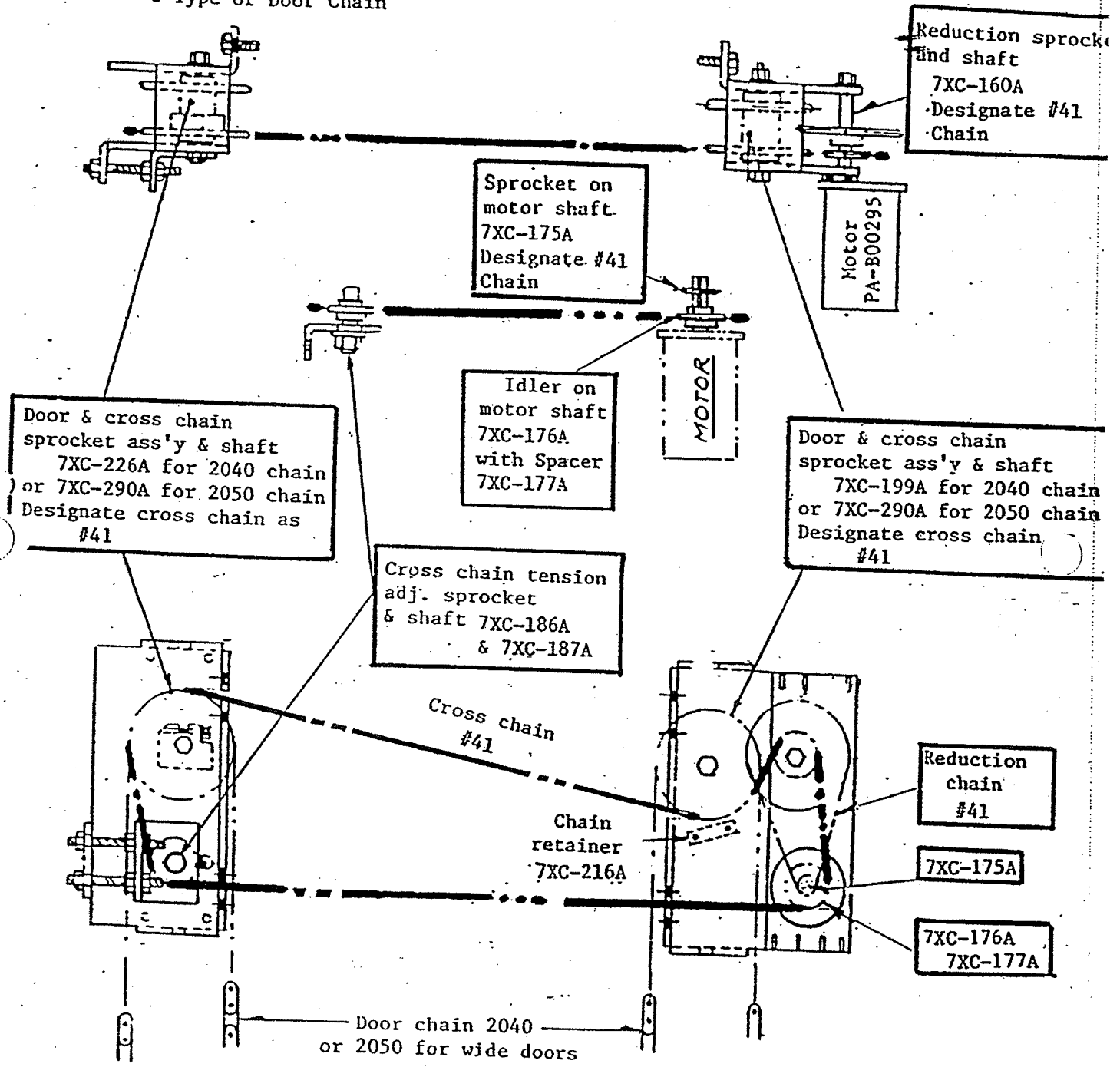
- A. IF YOU WILL LOOK AT THE PAGES SHOWING "BREAK APART" DRAWINGS OF THE OPERATORS, YOU WILL NOTE THAT THERE HAVE BEEN MANY VARIATIONS OF OUR OPERATOR. PARTS SHOWN ON THE VARIOUS PAGES ARE NOT INTER-CHANGEABLE WITH OPERATORS SHOWN ON A DIFFERENT PAGE. THEREFORE, IT IS IMPORTANT TO DETERMINE THE YEAR OF MANUFACTURE. IF YOU DO NOT KNOW THE YEAR OF MANUFACTURE, IT IS EASY TO ACQUIRE. OUR JOB NUMBER MAY BE FOUND ON THE DOOR CONTROLLER OR ON ANY GUILBERT DRAWINGS IN YOUR POSSESSION. GIVE US THE JOB NUMBER AND WE WILL TAKE IT FROM THERE.
- B. PLEASE REFER TO THE FOLLOWING PAGES SHOWING OPERATOR PARTS BEFORE ORDERING. NOTE YEAR OF MANUFACTURE IN LOWER RIGHT HAND CORNER OF EACH PAGE.

please give us the job number and the specific door being serviced.

34

COMPLETE IDLER UNIT
7XC-148A
Designate 41 Chain
& Type of Door Chain

COMPLETE OPERATOR
7XC-147A



Reduction sprocket and shaft
7XC-160A
Designate #41 Chain

Sprocket on motor shaft.
7XC-175A
Designate #41 Chain

MOTOR
PA-B00295

Idler on motor shaft
7XC-176A
with Spacer
7XC-177A

MOTOR

Door & cross chain sprocket ass'y & shaft
7XC-199A for 2040 chain
or 7XC-290A for 2050 chain
Designate cross chain #41

Door & cross chain sprocket ass'y & shaft
7XC-226A for 2040 chain
or 7XC-290A for 2050 chain
Designate cross chain as #41

Cross chain tension adj. sprocket & shaft
7XC-186A & 7XC-187A

Reduction chain #41

7XC-175A

7XC-176A
7XC-177A

Cross chain #41

Chain retainer 7XC-216A

Door chain 2040 or 2050 for wide doors

FREIGHT DOOR OPERATOR
MODEL 170S
Prior to July 1970

OBSOLETE

or a car lap greater than 4". If your elevator has any of the items mentioned, please give us the job number and the specific door being serviced.

35

COMPLETE IDLER UNIT
7XC-148A
Designate 65 Chain
& Type of Door Chain

COMPLETE OPERATOR
7XC-339A

Reduction sprock
and shaft
7XC-160A
Designate #65
Chain

Sprocket on
motor shaft
7XC-175A
Designate #65
Chain

MOTOR
PA-B00295

Idler on
motor shaft
7XC-289A
with Spacer
7XC-177A

MOTOR

Door & cross chain
sprocket ass'y & shaft
7XC-226A for 2040 chain
or 7XC-290A for 2050 chain
Designate cross chain
as #65

Door & cross chain
sprocket ass'y & shaft
7XC-199A for 2040 chain
or 7XC-290A for 2050 chain
Designate cross chain
as #65

Cross chain tension
adj. sprocket
& shaft 7XC-186A
& 7XC-288A

Reduction
chain
#65

7XC-175A

7XC-289A
& 7XC-177A

Cross chain
#65

Chain
retainer
7XC-216A

Door chain 2040
or 2050 for wide doors

FREIGHT DOOR
OPERATOR
MODEL 170S
July 1970 to Oct. 1972

OBSOLETE

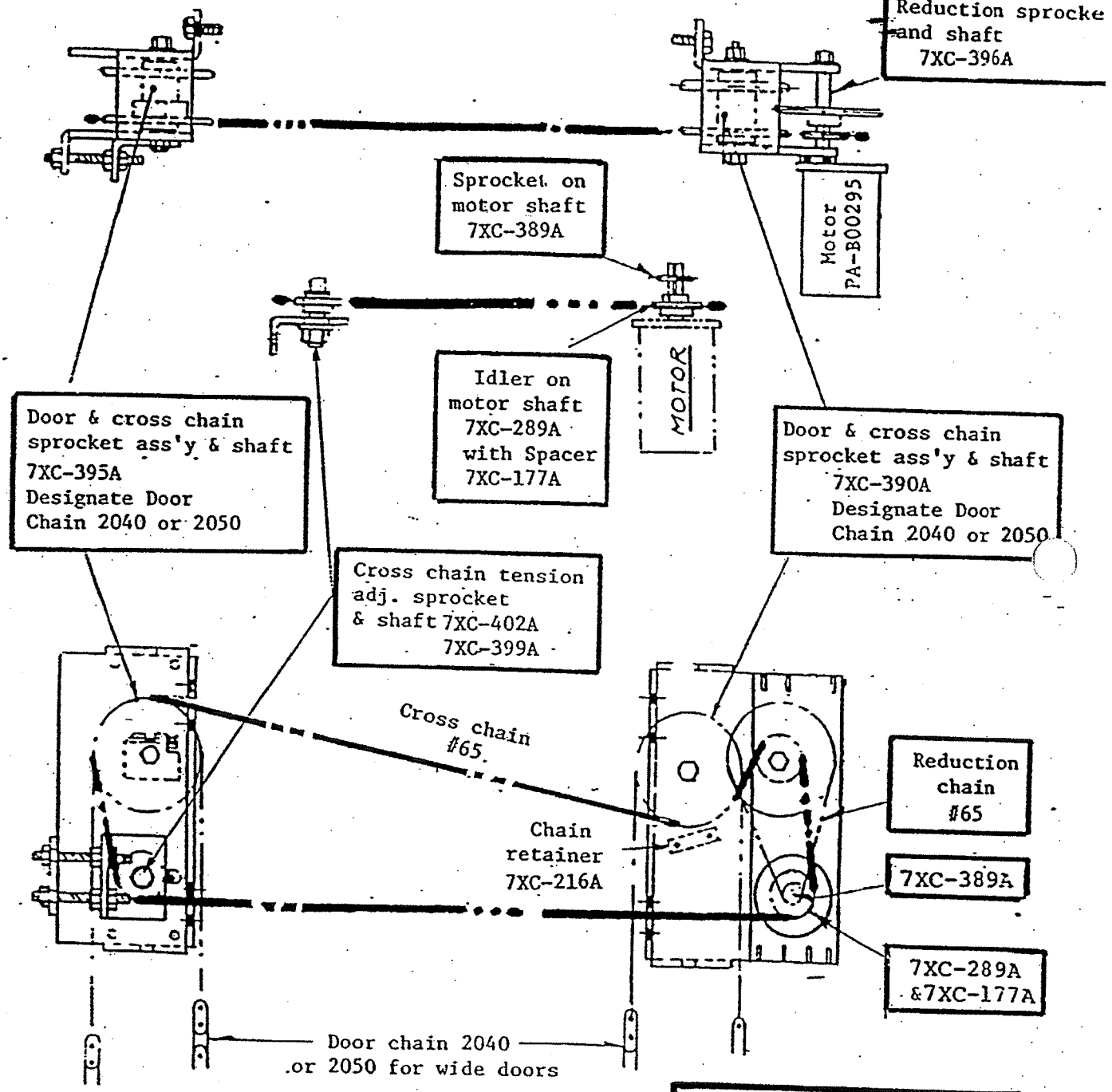
please give us the job number and the specific door being serviced.

32

COMPLETE IDLER UNIT
7XC-398A
Designate Type
of Door Chain

COMPLETE OPERATOR
7XC-397A

Reduction sprocke
and shaft
7XC-396A



Door & cross chain
sprocket ass'y & shaft
7XC-395A
Designate Door
Chain 2040 or 2050

Sprocket on
motor shaft
7XC-389A

Idler on
motor shaft
7XC-289A
with Spacer
7XC-177A

Door & cross chain
sprocket ass'y & shaft
7XC-390A
Designate Door
Chain 2040 or 2050

Cross chain tension
adj. sprocket
& shaft 7XC-402A
7XC-399A

Cross chain
#65

Chain
retainer
7XC-216A

Reduction
chain
#65

7XC-389A

7XC-289A
& 7XC-177A

Door chain 2040
or 2050 for wide doors

FREIGHT DOOR
OPERATOR
MODEL 170S
Oct. 1972 to July 1973

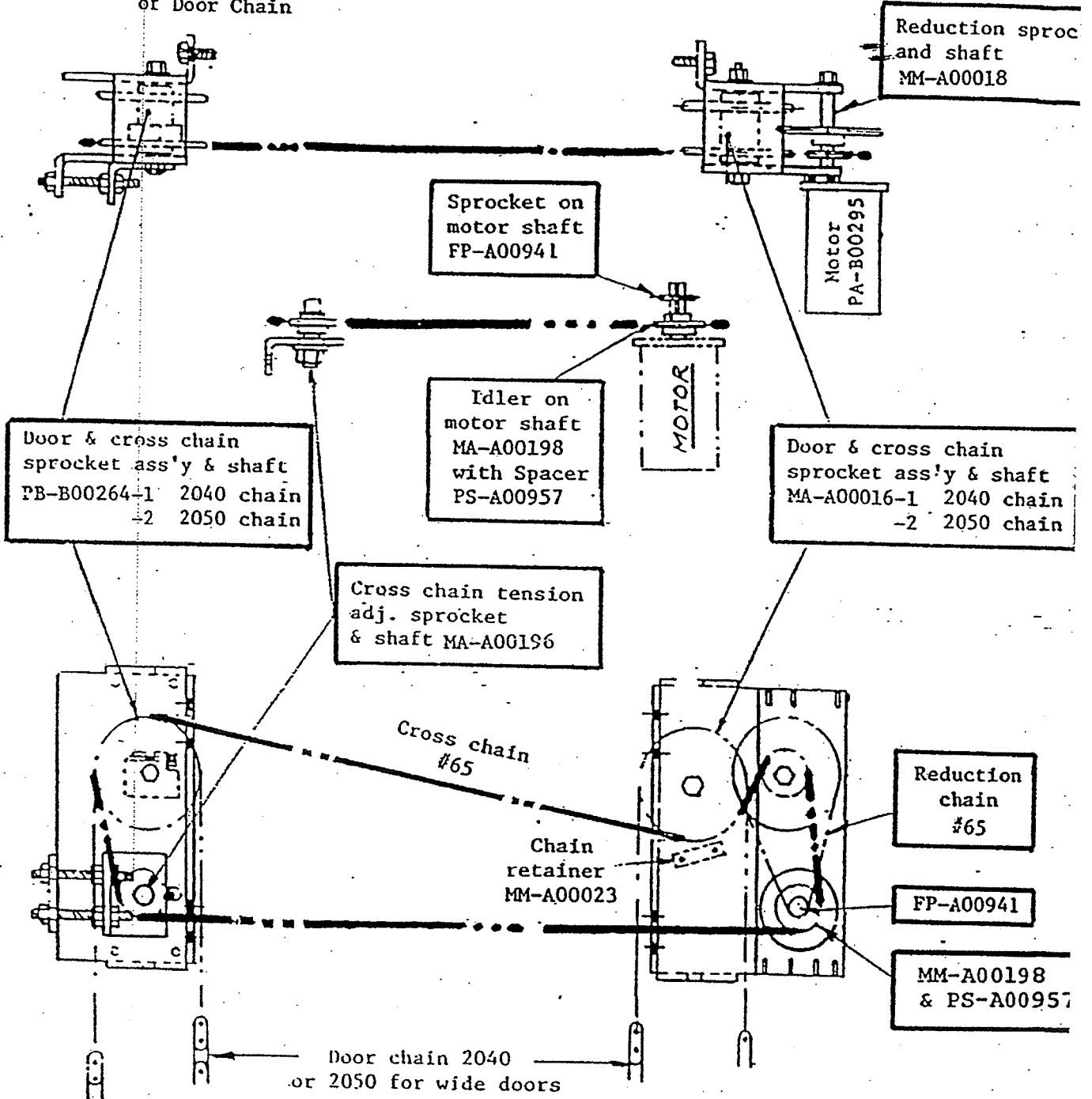
OBSOLETE

please give us the job number and the specific door being serviced.

57

COMPLETE IDLER UNIT
FP-C00203
Designate Type
of Door Chain

COMPLETE OPERATOR
FP-C00001



FREIGHT DOOR
OPERATOR
MODEL 170M
July 1973 to March 1976

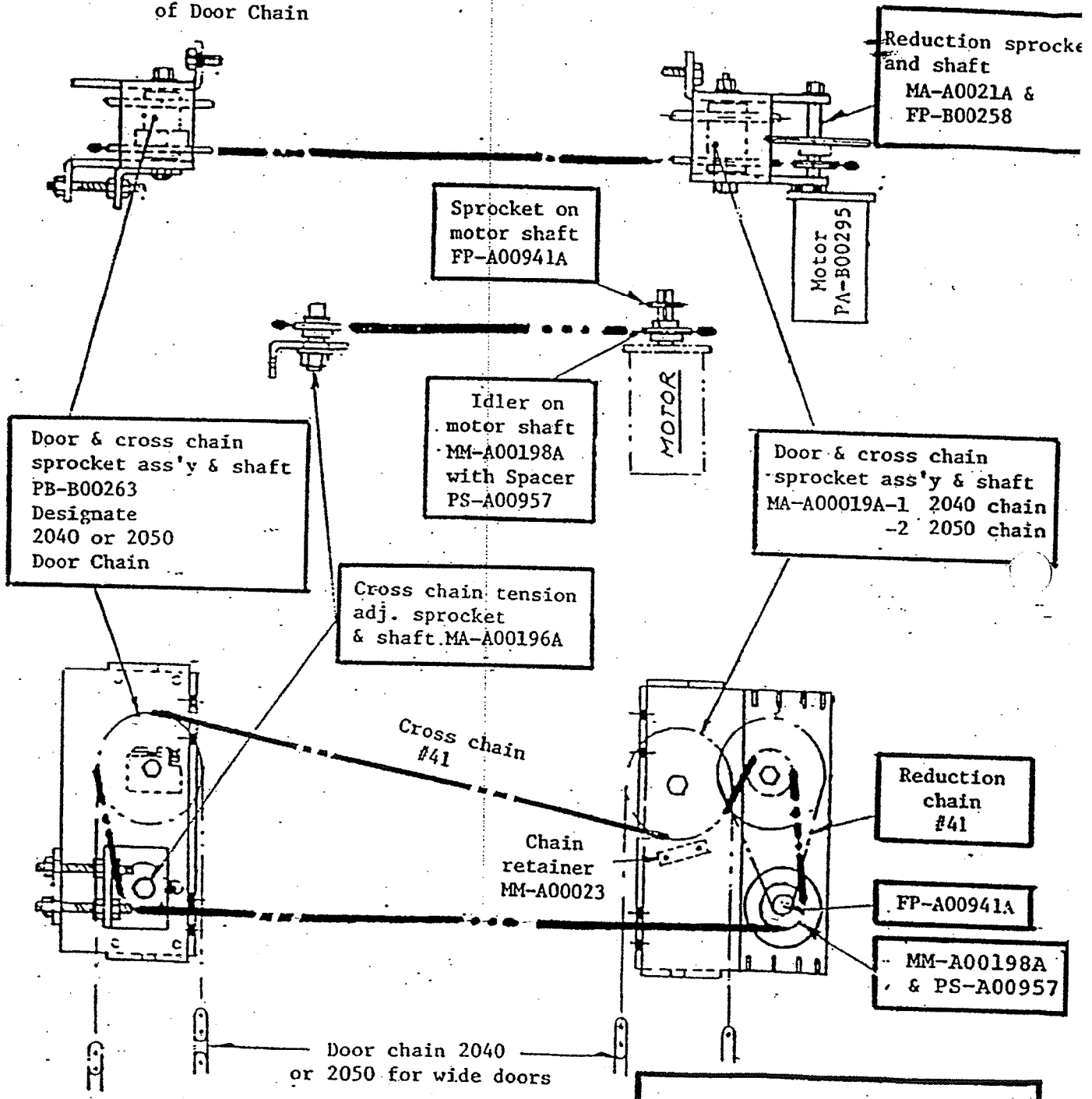
OBSOLETE

your elevator has any of the items mentioned, please give us the job number and the specific door being serviced.

38

COMPLETE IDLER UNIT
FP-C00222
Designate Type
of Door Chain

COMPLETE OPERATOR
FP-C00217



Reduction sprocket and shaft
MA-A0021A & FP-B00258

Sprocket on motor shaft
FP-A00941A

Motor
PA-B00295

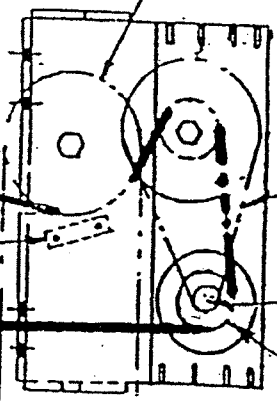
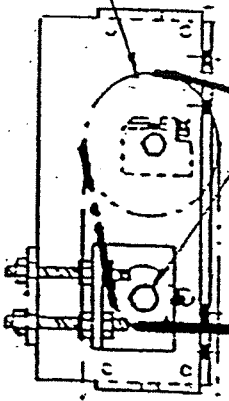
Door & cross chain sprocket ass'y & shaft
PB-B00263
Designate 2040 or 2050 Door Chain

Idler on motor shaft
MM-A00198A with Spacer
PS-A00957

MOTOR

Door & cross chain sprocket ass'y & shaft
MA-A00019A-1 2040 chain
-2 2050 chain

Cross chain tension adj. sprocket & shaft MA-A00196A



Reduction chain #41

Cross chain #41

Chain retainer MM-A00023

FP-A00941A

MM-A00198A & PS-A00957

Door chain 2040 or 2050 for wide doors

FREIGHT DOOR OPERATOR
MODEL 175
March 1976 to May 1977

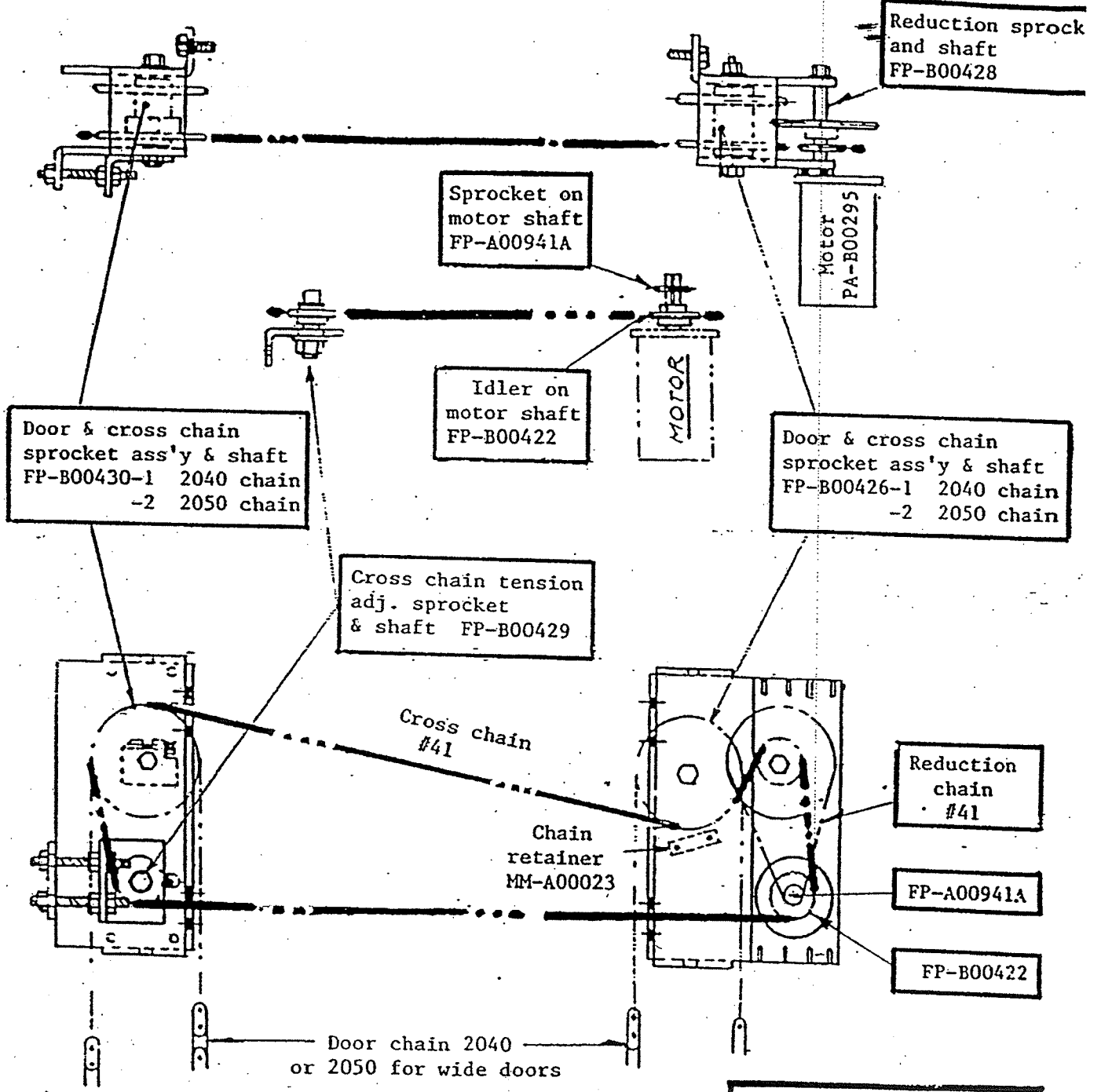
OBSOLETE

or a car lap greater than 4". If your elevator has any of the items mentioned, please give us the job number and the specific door being serviced.

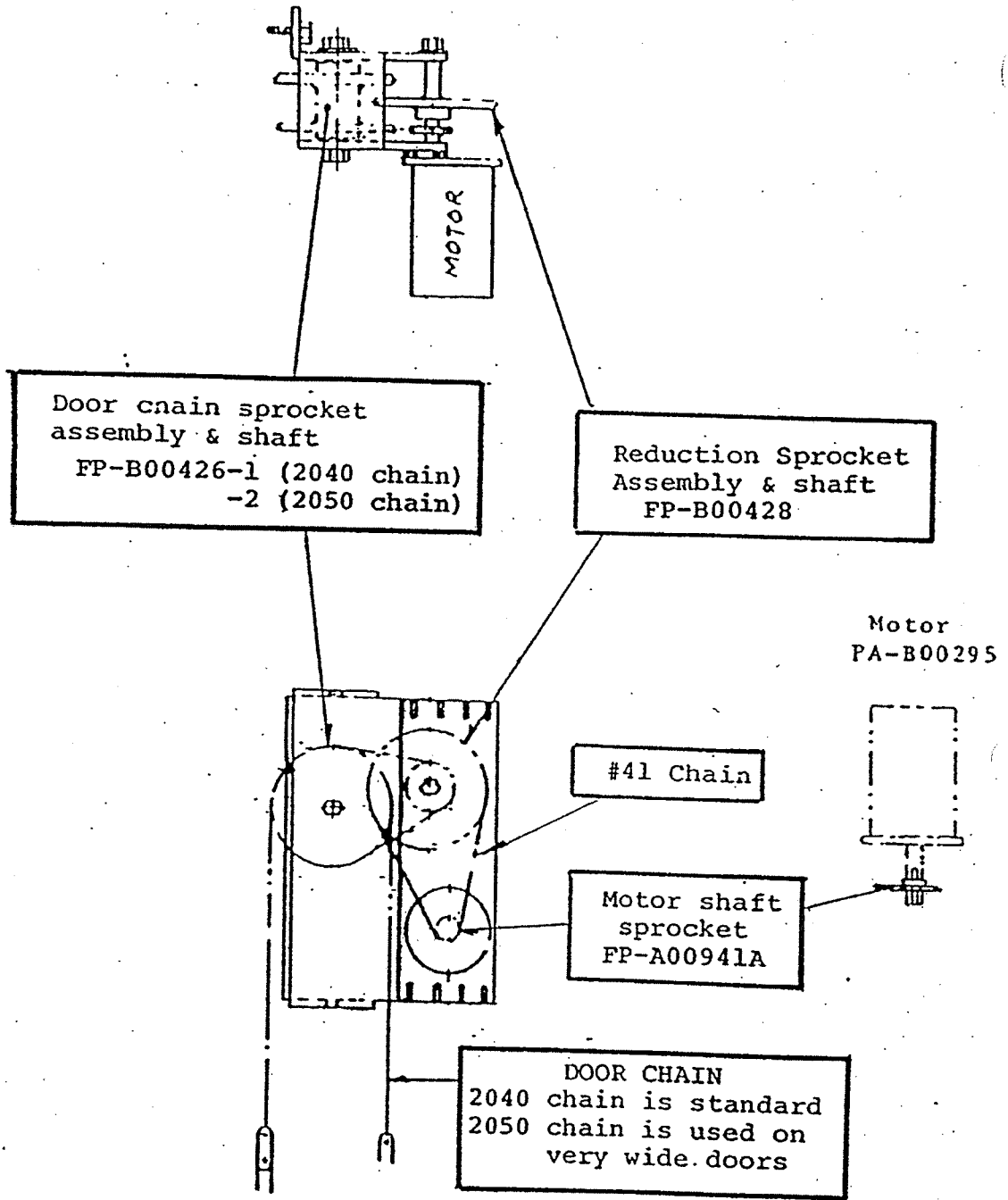
39

COMPLETE IDLER UNIT
 FP-D0015-1 2040 chain
 -2 2050 chain

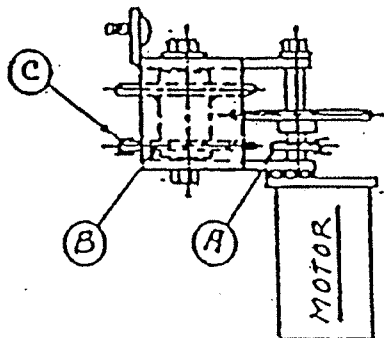
COMPLETE OPERATOR
 FP-D00114-1 2040 chain
 -2 2050 chain



FREIGHT DOOR OPERATOR
 MODEL 275
 May 1977 to present



DUAL FREIGHT
DOOR OPERATOR
Used when
door has motors
on 2 sides
May 1977 to present

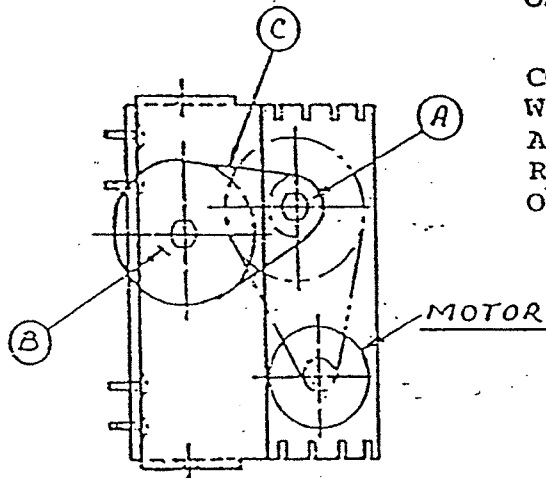


PLAN VIEW

REMOVE EXISTING CROSS-CHAIN.

REMOVE OLD IDLER UNIT & MOUNT NEW OPERATOR USING EXISTING MOUNTING HOLES IN RAIL.

USE 18½" OF OLD CROSS CHAIN & CHAIN THE OPERATOR INTERNALLY AS SHOWN (C). CHAIN FROM THE SMALL SPROCKET (A) ON THE REDUCTION UNIT TO THE LARGER SPROCKET (B) ON THE LOAD HUB.



CARSIDE ELEVATION

CONNECT WIRE A1 ON NEW MOTOR TO WIRE A2 ON OLD MOTOR (A2 ON NEW TO A1 ON OLD). WE WANT TO REVERSE THE ROTATION OF THE NEW MOTOR, AS THE OPERATOR MOUNTING IS REVERSE.

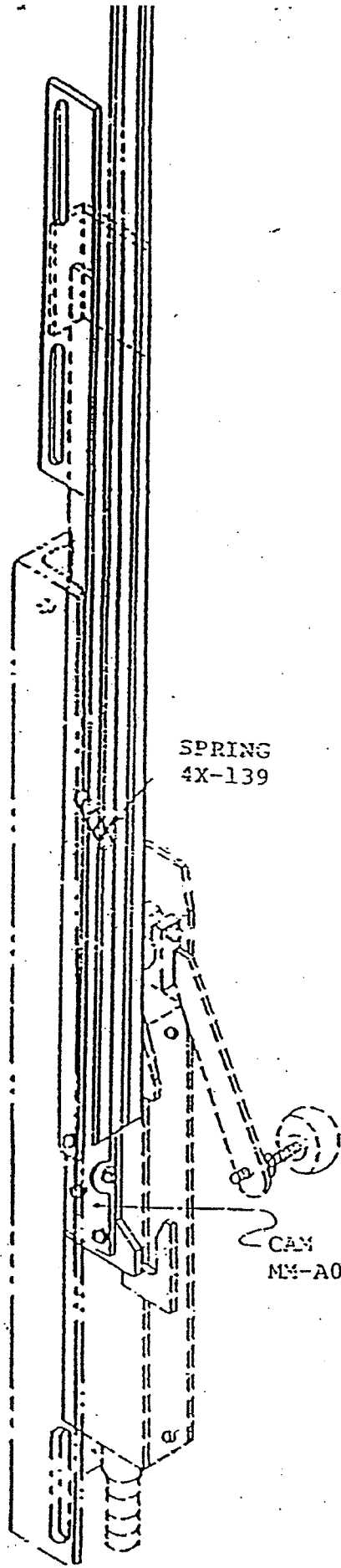
CONVERSION INSTRUCTIONS
single motor to dual motors

R.H. shown.

2XC-186 is for standard interlocks only as used on freight elevator doors. If your locks are moisture proof, or explosion proof, or if the locks are on hatch gates or dumbwaiter doors, this assembly is not applicable.



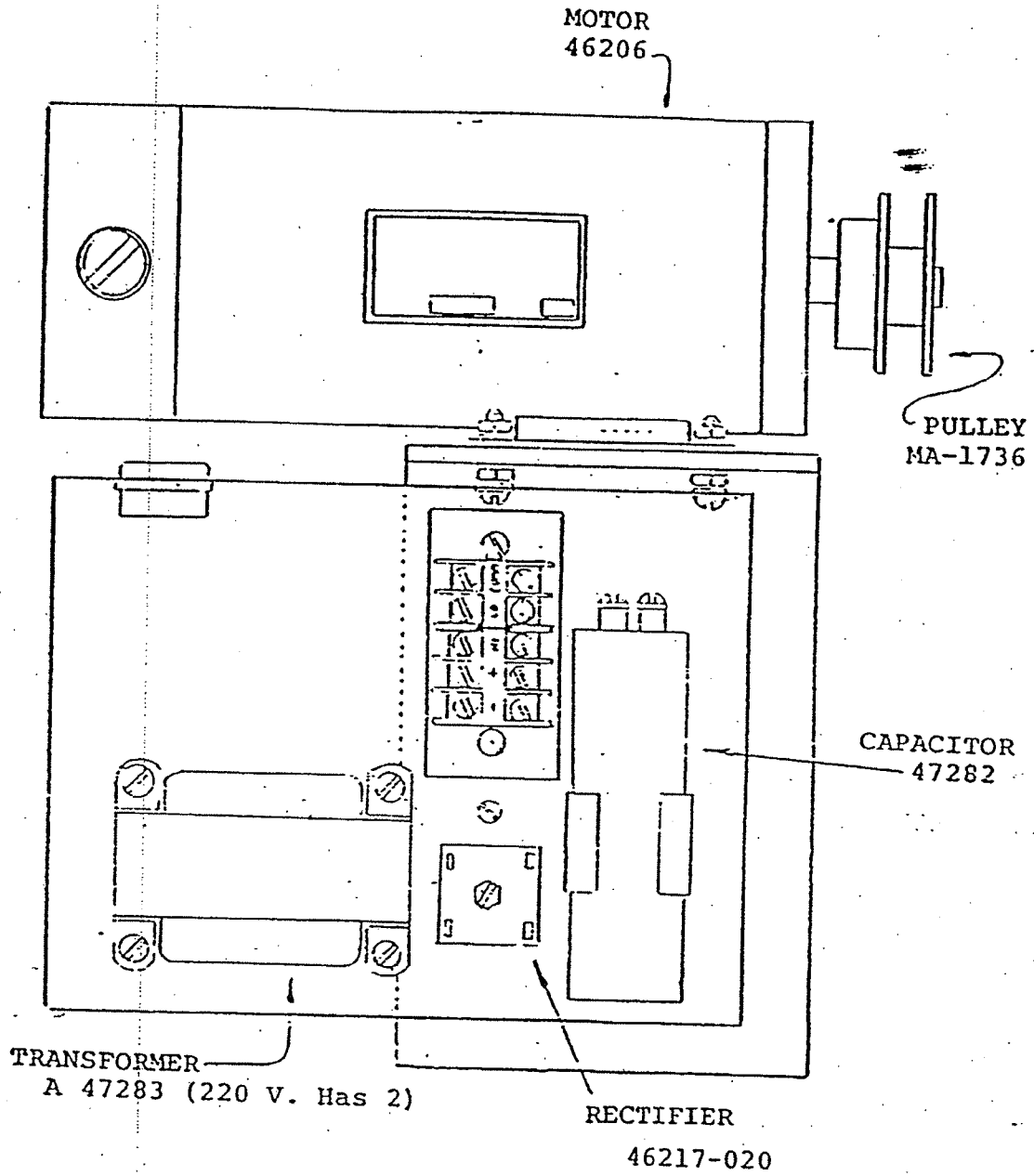
TO ORDER,
Give "Hand",
& Opening Height



SPRING
4X-139

CAM
MM-A00462-1 (RH)
-2 (LH)

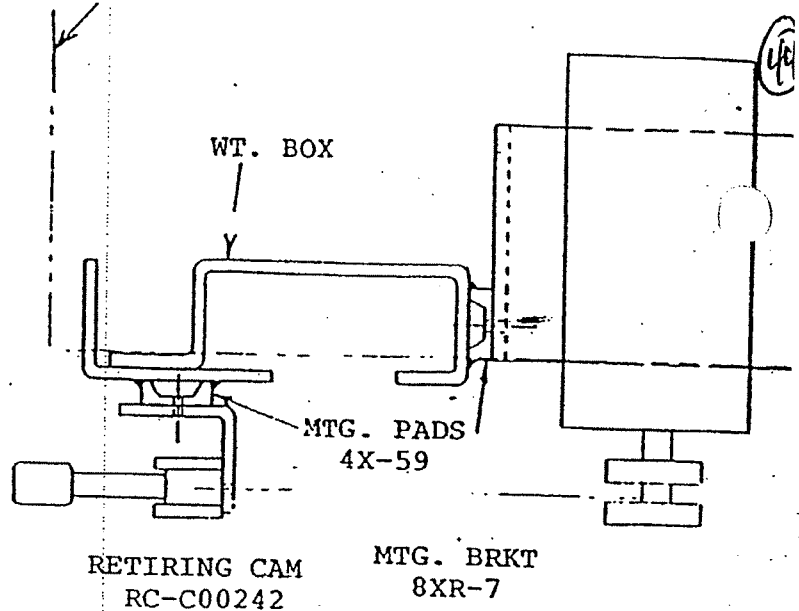
PLUGPROOF BAR
ASSEMBLY
2XC-186



Complete Power Unit including
 Motor with Pulley, Power Pak
 and Mtg. Bracket
 220V = P-21500
 110V = P-16628
 Order by Part Number and "Hand"

RETIRING CAM MOTOR

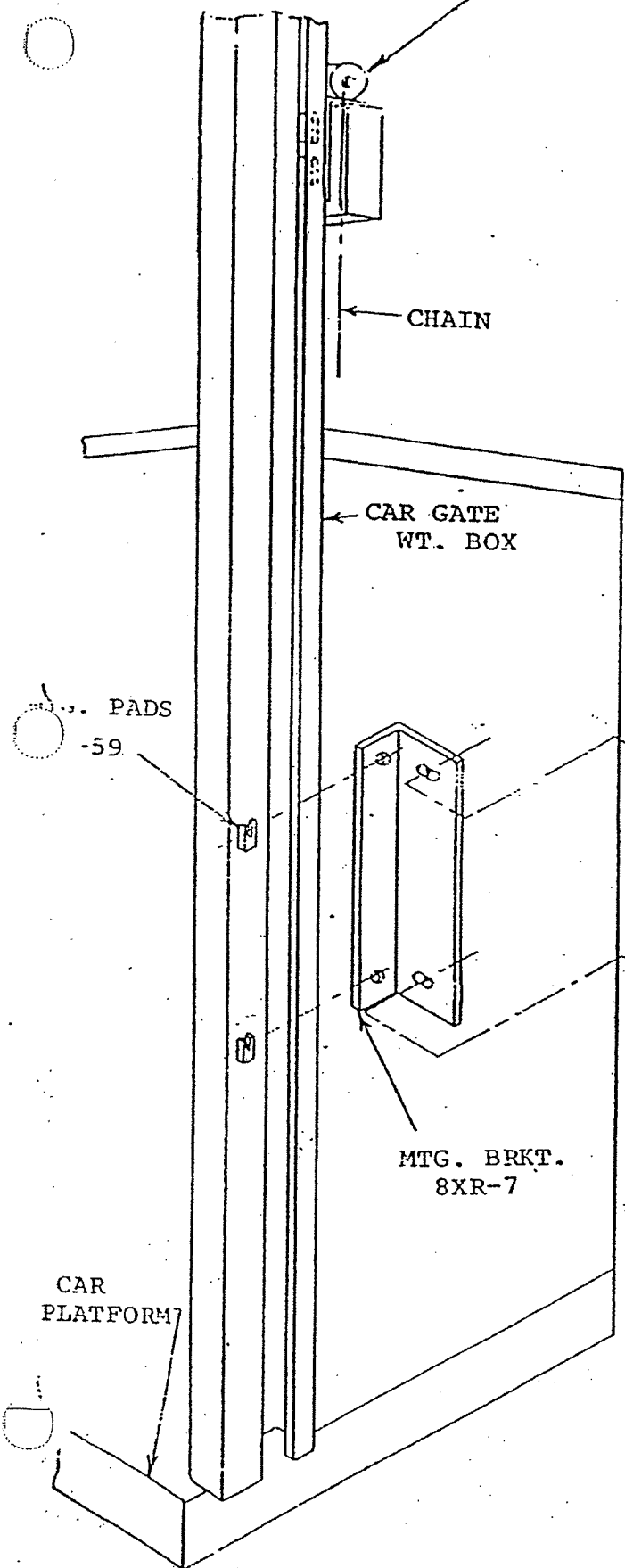
RETIRING MOTOR, Power Pak
 and Mtg. Brkt. Order by
 Part Number and "Hand"
 220V = P-21500
 110V = P-16628



PLAN VIEW

*L.H. ASS'Y. AS SHOWN

*R.H. ASS'Y. OPPOSITE



NOTE !

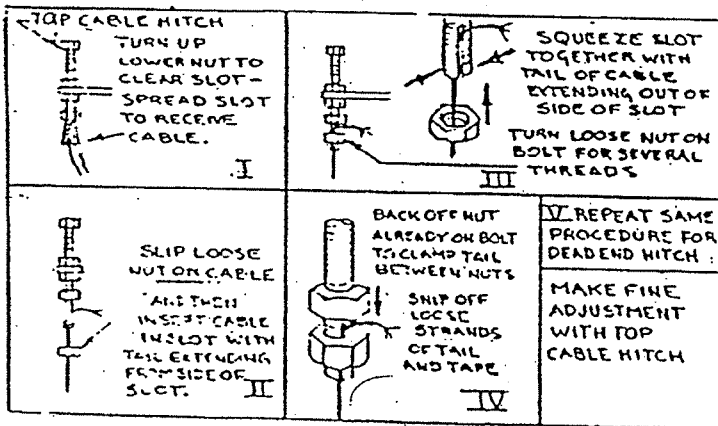
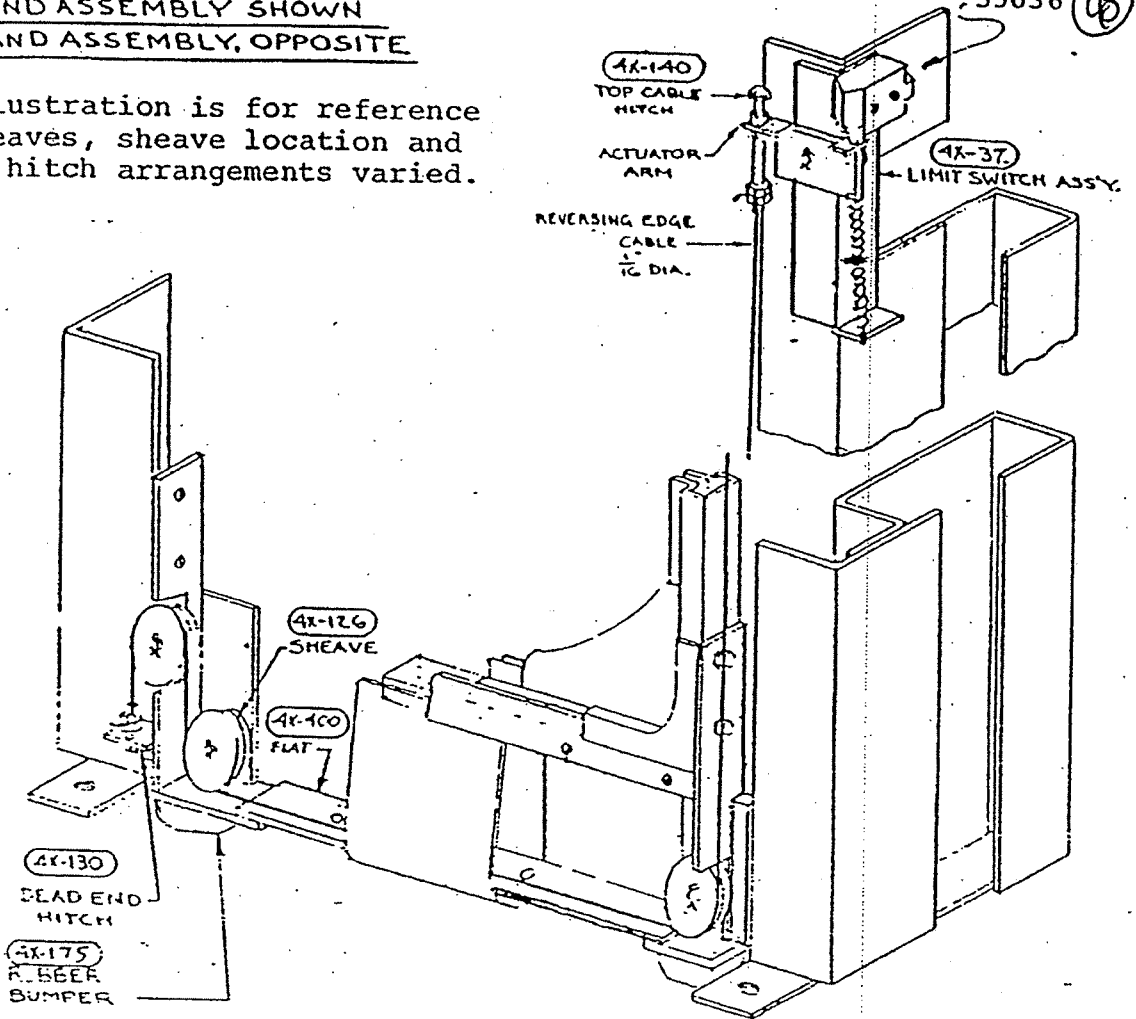
WHEN ORDERING
 MOTORS,
 PLEASE SPECIFY
 "HAND" & VOLTAGE

RETIRING CAM

LEFT HAND ASSEMBLY SHOWN
RIGHT HAND ASSEMBLY, OPPOSITE

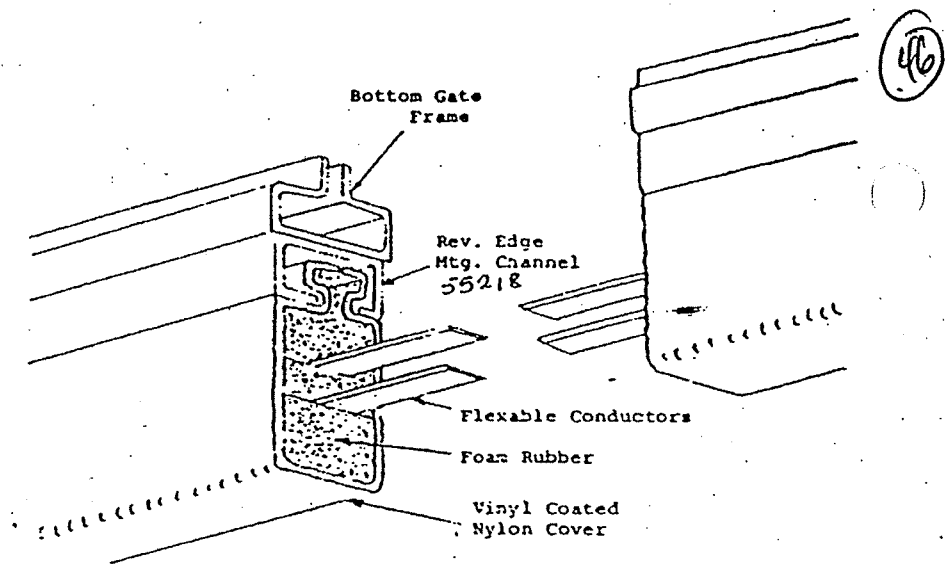
Micro Switch
55036 (16)

This illustration is for reference only. Sheaves, sheave location and dead end hitch arrangements varied.

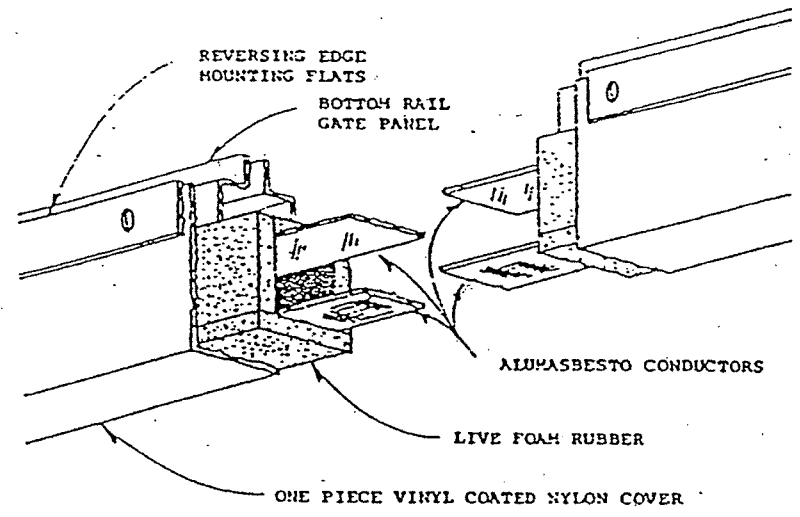


NOTE: This model reversing edge is obsolete. Most parts are no longer available. We suggest conversion to our new, all electronic reversing edge kit. There is no cable, no sprockets, sheaves or switches. Best of all, there is no adjustment. Call us for prices.

RENEWAL PARTS DATA
REVERSING EDGE FOR POWER
CARGATE - 1966 THRU 1973



GP-A00916 "Bolt On" reversing edge



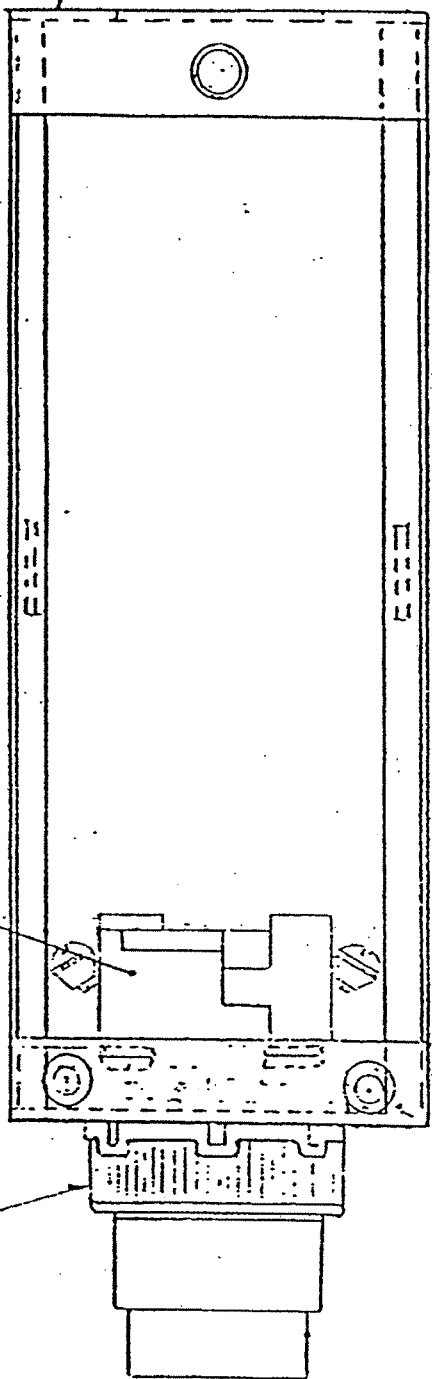
When ordering a reversing edge, it is best to provide a Guilbert job number (see page 1). This will enable us to duplicate the material using the original file. If a job number can not be found, then we need the "exact" length of the reversing edge. All reversing edges are not returnable, unless a correct job number is provided at the time the order is placed.

ZONE SWITCH BOX
A-55216

ZONE SWITCH COVER
A-55217
(NOT SHOWN)

CONTACT BLOCK
55147
(2 PER ASS'Y)

ACTUATOR W/BUTTON
55148



ZONE SWITCH
ASSEMBLY P-21620

INDEX

ENERGY EQUIPMENT

DUMBWAITERS AND RESIDENCE ELEVATORS

ARRIVAL LIGHT AND GONG, DOOR OPEN BUZZER----- 1

ASTRAGAL - HATCH DOOR----- 2

DOOR, CAR - MANUAL DUMBWAITER----- 3

DOOR, HATCH - MANUAL DUMBWAITER----- 4

CONTROLLER - 3 PHASE----- 5

 3 PHASE - HEATER COILS & TRANSFORMERS----- 6

 SINGLE PHASE----- 7

GUIDE SHOES - CAR AND COUNTERWEIGHT----- 8

PUSHBUTTON STATION----- 9

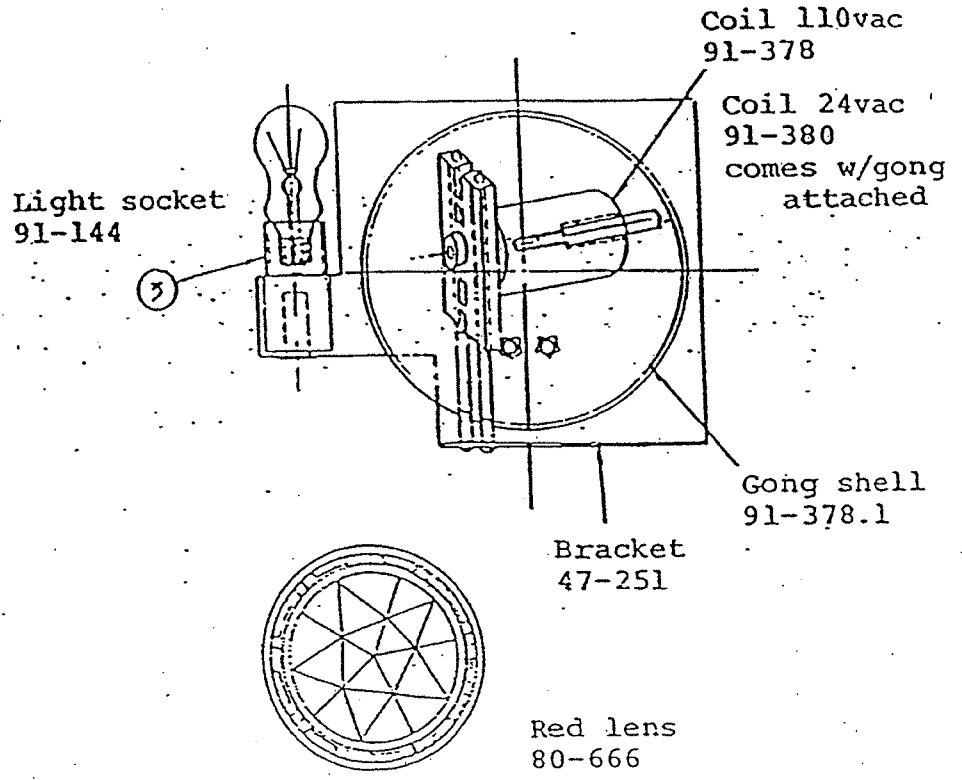
RETIRING CAM----- 10

SHEAVES - DRIVE AND DEFLECTOR----- 11

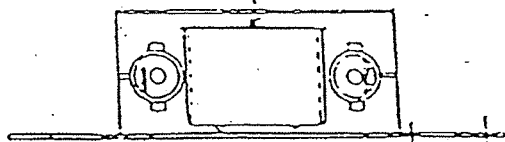
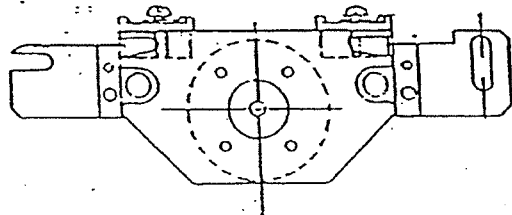
SWITCHES----- 12

CAR ARRIVAL LIGHT AND GONG

COMPLETE ASSEMBLY	25-800	(110V)
	25-804	(24V)

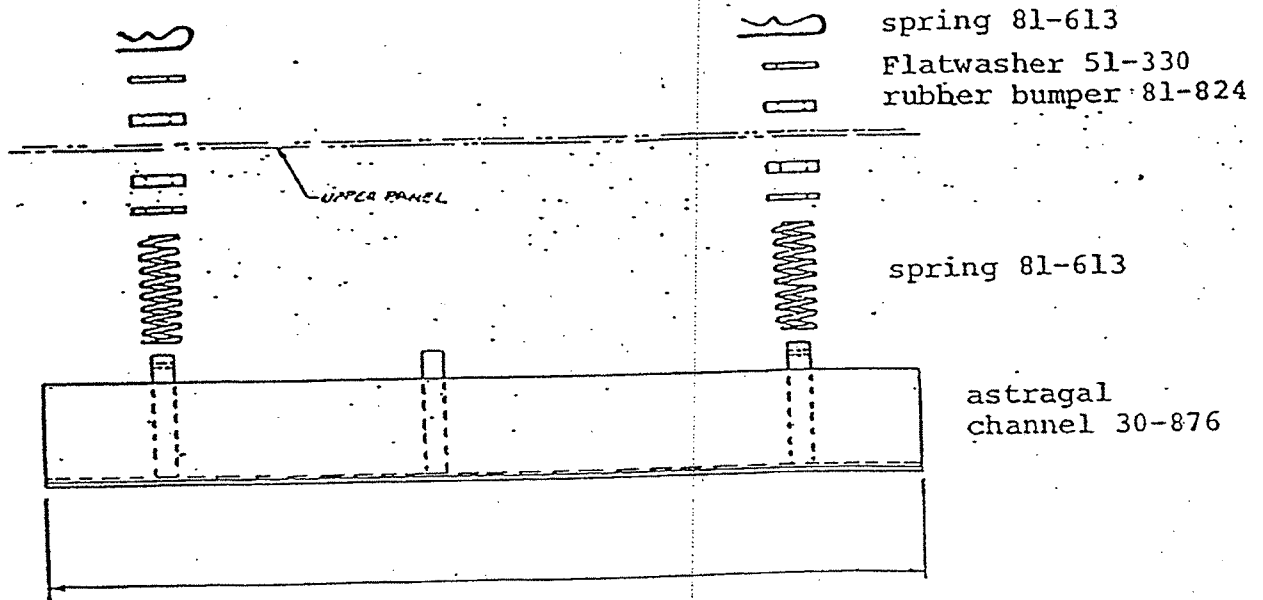


DOOR OPEN BUZZER
 110V complete with mounting bracket
 91-350



SAFETY ASTRAGAL
DUMBWAITER HATCH DOOR

51



Complete safety astragal, as shown 30-600

When ordering a complete safety astragal or an astragal channel, it is advisable to give us the original ENERGY job number

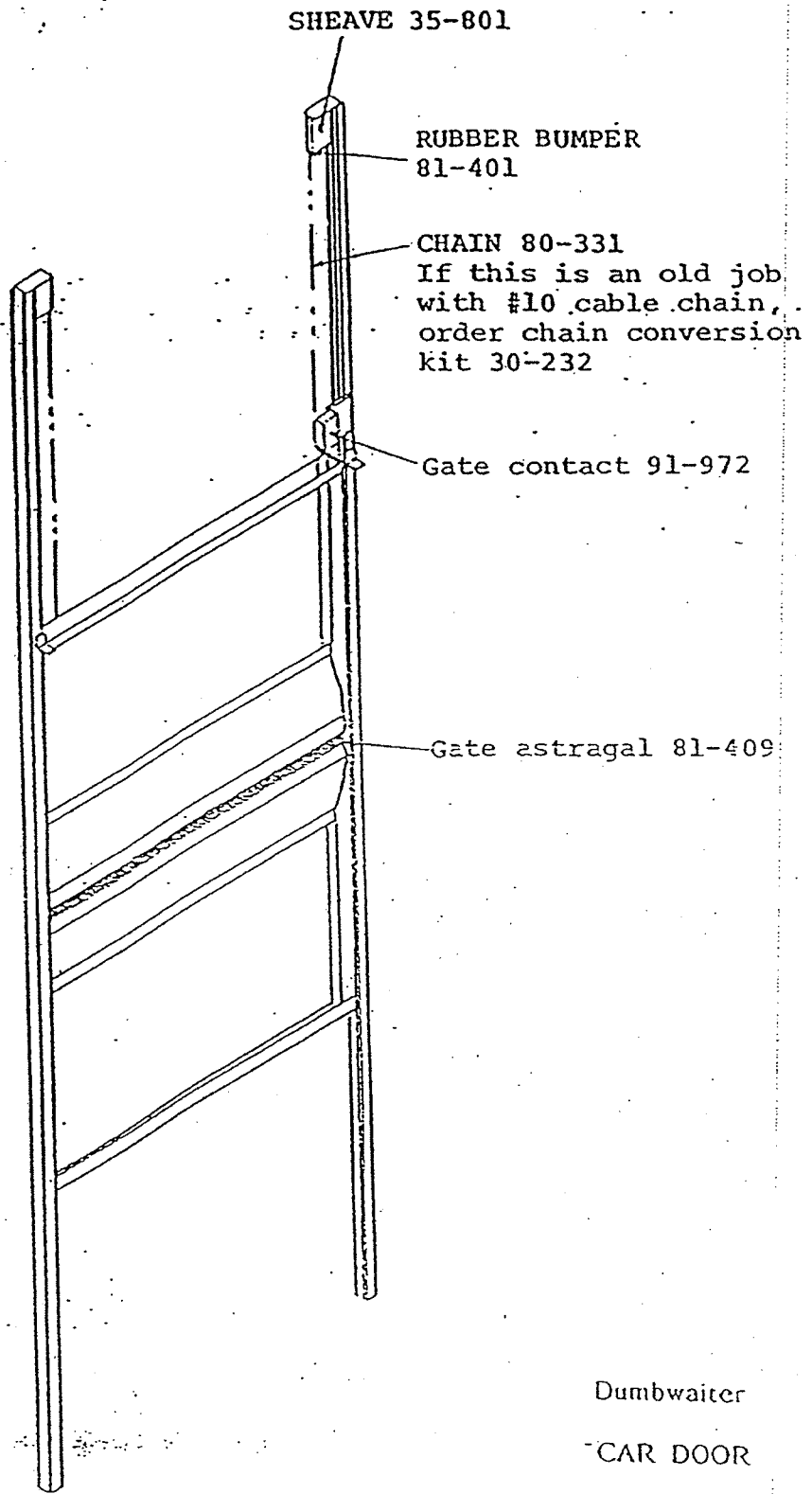
Spring replacement kit 30-601 is available.
Kit includes:

- (2) springs 81-613
- (4) rubber bumpers 81-824
- (4) flatwashers 51-330
- (2) hairpin clips 50-151

SAFETY ASTRAGAL

Hoistway Door

58



Dumbwaiter

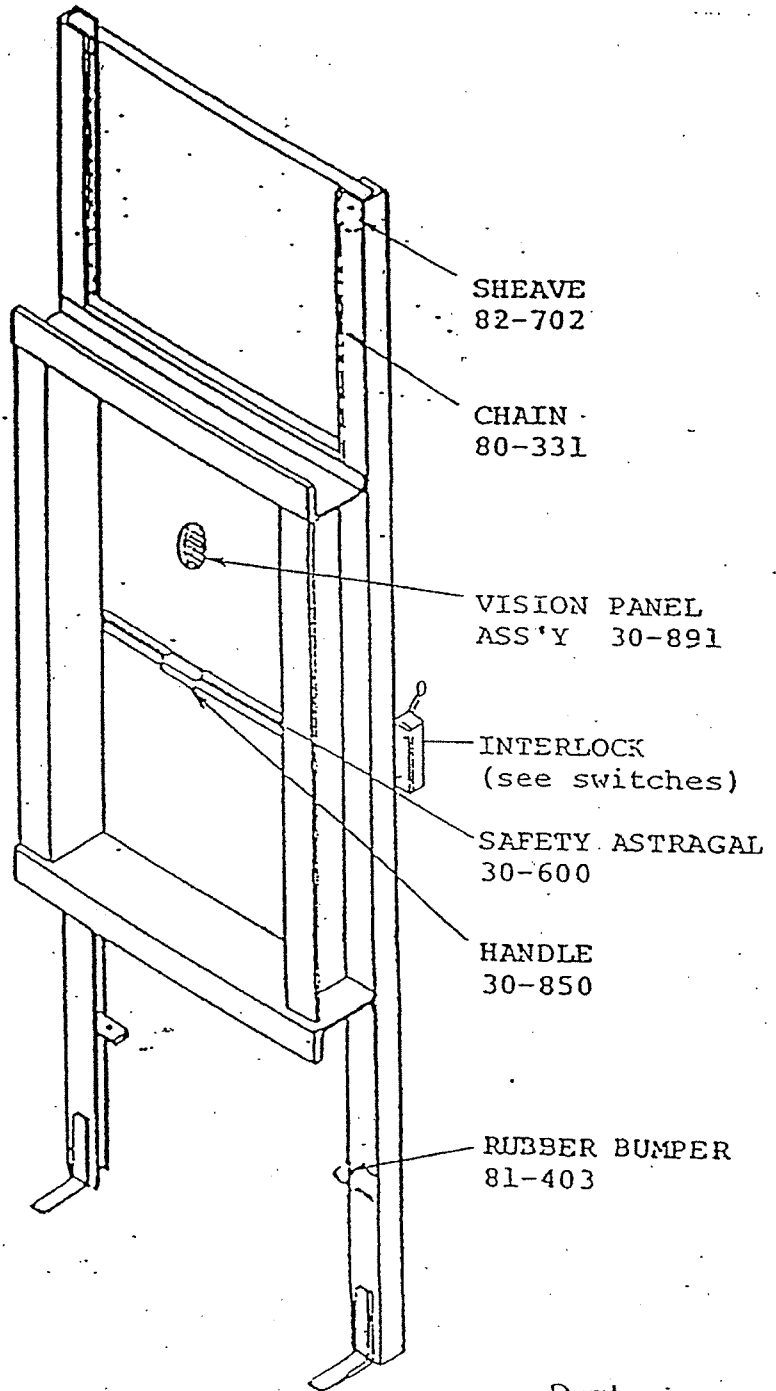
CAR DOOR

Bi-Parting

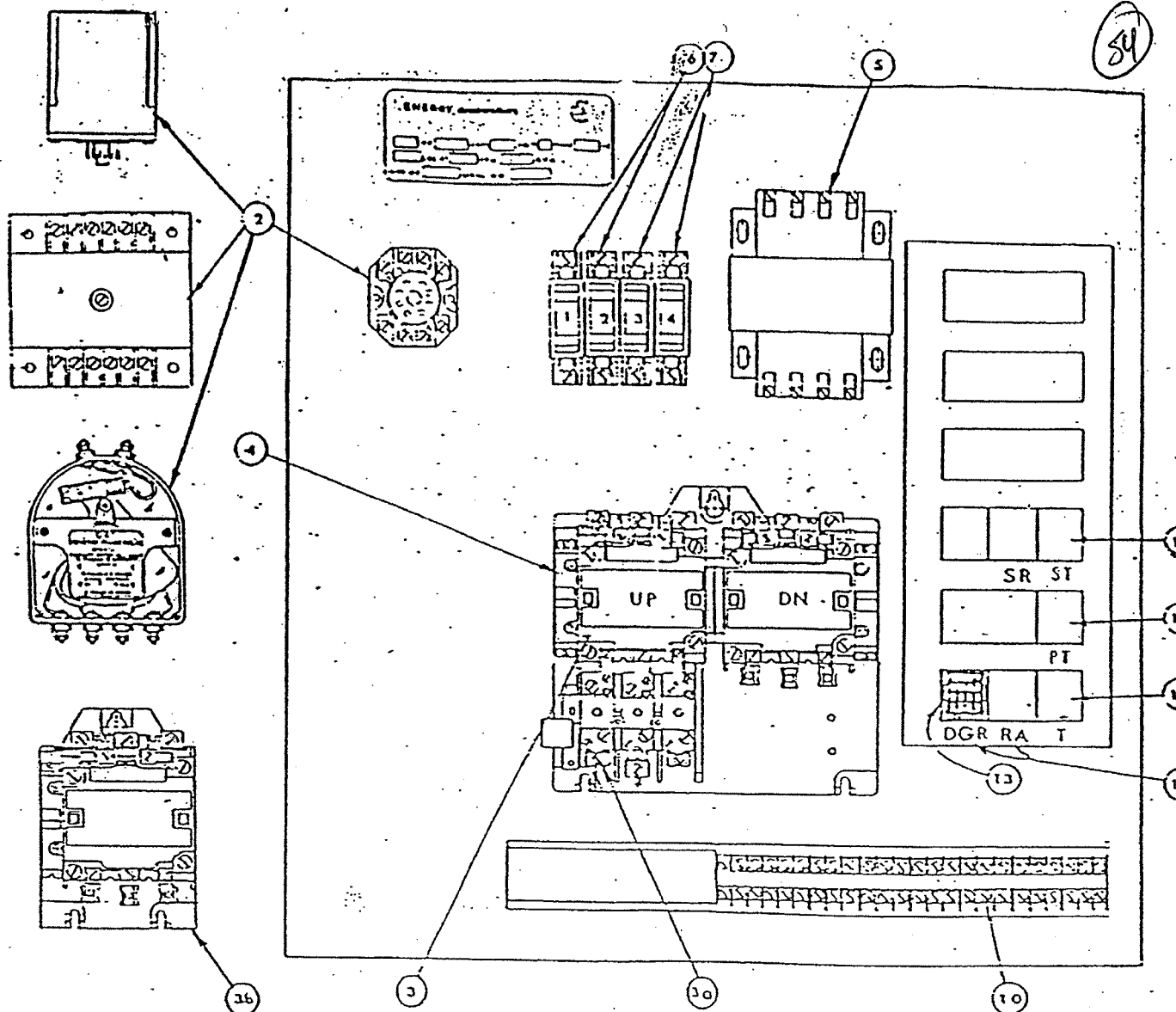
Manually Operated

CAUTION: PRIOR TO 1979, DOOR ON ENERGY DUMBWAITERS MAY HAVE BEEN OF ANY MANUFACTURE. IF DOOR IS NOT GUILBERT OF ENERGY, REFER TO THE DOOR MANUFACTURER FOR PARTS.

33



Dumbwaiter
HATCH DOOR
Bi-Parting
Manually Operated



ITEM #	NAME	PART #
2	Relay Socket	90-174
2	Reverse Phase Relay 220V	90-175
2	Reverse Phase Relay 440V	90-176
2	Reverse Phase Relay 575V	90-178
2	Resistor 10K OHM	90-764
3	Reversing Motor Starter	90-365
3a	Heater Coils	90-see next page
3b	Contactors, Retiring Cam Only	90-366
4	Auxiliary Contacts	90-367
5	Transformer	90-see next page
6	Fuses, Primary	Purchase locally
7	Fuses, Secondary	Purchase Locally
10	Terminals (3)	90-847
13	Relay Sockets	90-867
14	Timer 9 Sec.	90-101
14	Timer 90 Sec.	90-102
15	Relay	90-280

HEATER COILS & TRANSFORMERS
for 3 phase controllers

55

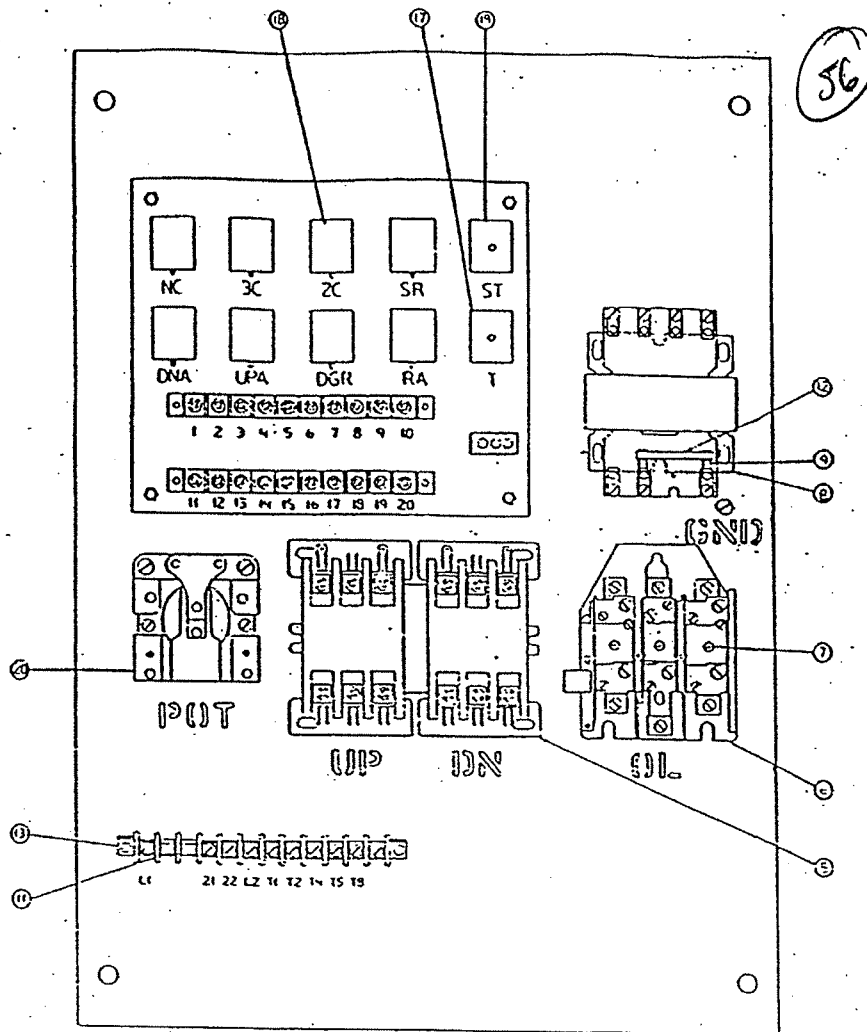
HEATER COILS

Motor HP	Voltage	Part #	Coil #	Installed
½	208	90-719	1021	(H)
½	230	90-719	1021	(L)
½	460	90-713	1115	(L)
½	575			
1	208	90-726	1027	(L)
1	230	90-725	1066	(L)
1	460	90-718	1020	(H)
1	575			
1½	208			
1½	230	90-728	1029	(L)
1½	460	90-721	1023	(H)
1½	575			
2	208	90-731	1032	(L)
2	230	90-730	1031	(H)
2	460	90-724	1026	(L)
2	575			
3	208	90-734	1035	(L)
3	230	90-733	1034	(H)
3	460	90-724	1024	(L)
3	575			

TRANSFORMERS

Acme TA-1-81212	XFMR .150KVA 480-220/120	90-428
Edwards #592	110/16	90-454
Acme TA-1-81141	220-110/24vac 50va	90-455

3 PHASE CONTROLLER
COMPONENTS



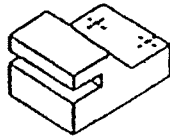
ITEM #	NAME	PART#
5	Reversing Motor Starter	90-373
6	Thermal Overload Relay	90-233
7	Heater Coil	see chart below
8	Transformer	90-455
9	Fuse Kit	90-861
11	Fuse, Primary 1 Amp	90-817
12	Fuse, Secondary 3/4 Amp	90-816
13	Terminal Strip	90-844
17	Timer (T) 10 sec. 24 vac	90-103
18	Relay 24 vac	90-281
19	Timer (ST) 60 sec. 24 vac	90-104
20	Potential Relay	90-293

HEATER COILS

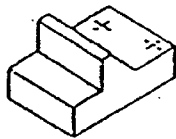
Motor HP	Voltage	Part #	Coil #	Installed
1/2	115	90-733	1034	(L)
1/2	220	90-726	1027	(H)
1	115	90-737	1038	(H)
1	220	90-730	1031	(H)

CONTROLLER

Single Phase

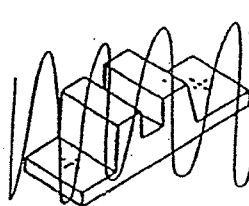


CAR GUIDE SHOE
For closed type channel rail
Bronze 73-210

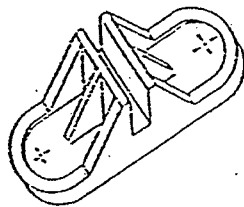


CAR GUIDE SHOE
For open type channel rail
Bronze 73-209

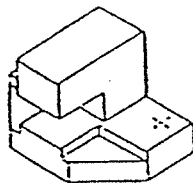
OBSOLETE -
NO STOCK -



CAR GUIDE SHOE
For "T" rail
Bronze 73-231 has 7/16 slot
73-232 has 1/4 slot
73-235 has 11/16 slot



CAR GUIDE SHOE
For "T" rail
Nylon 80-631

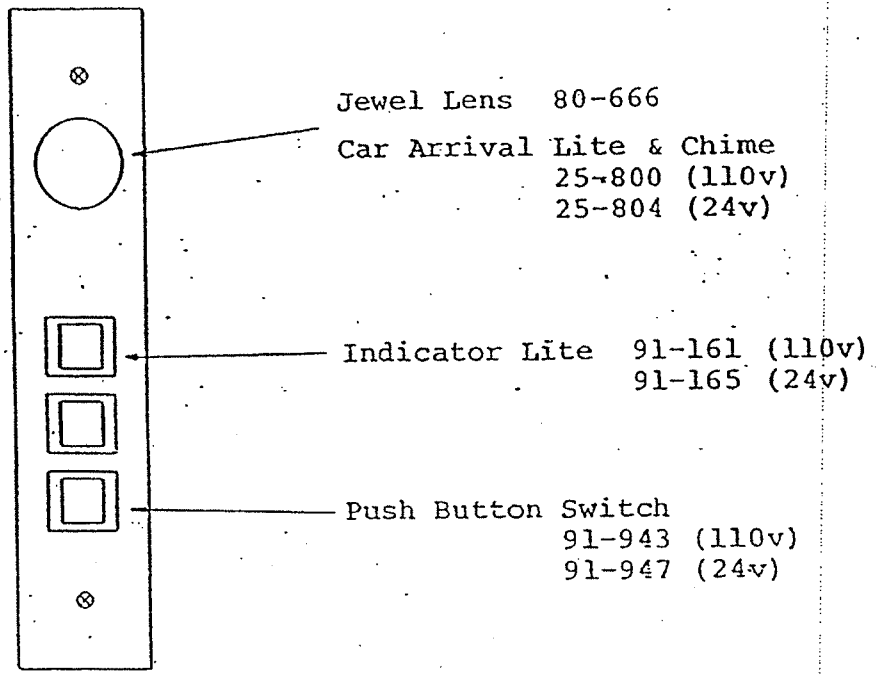


COUNTERWEIGHT GUIDE SHOE
Bronze
73-220 For cwt to 24" long
~~73-225 For cwt 30" long NOT AVAILABLE~~
Also used as a car guide shoe
on series 440 & 880 Dumbwaiters

THESE ARE THE ONLY GUIDE SHOES COURION HAS AVAILABLE FOR THE ENERGY DUMBWAITER CAR AND COUNTERWEIGHT.

GUIDE SHOES

Car and Counterweight



Complete stations and face plates are available. CALL US with complete information including the original Energy job number.

For car arrival lite and chime components, see separate page

Push button switches are blank. Indicator lens caps are available with any designation.

Round push button switches are obsolete and not available

PUSHBUTTON STATION

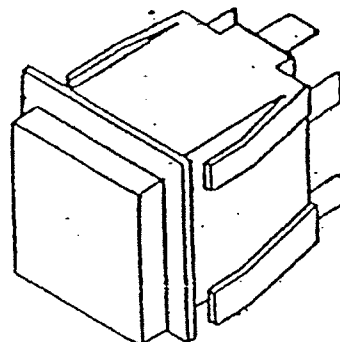
Dumbwaiters

PUSH BUTTON SWITCHES
& INDICATOR LIGHTS

59

PUSH BUTTONS

Call & send or alarm (blank).
110V = 91-943
24V = 91-947

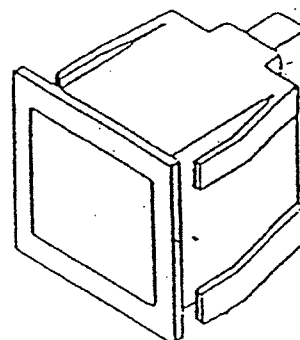


Indicator lens caps are available seperately.
Specify required designation.

Emergency "STOP" switch 24V = 91-953
"LIGHT" switch 24V = 91-954

INDICATOR LIGHT

110V = 91-161
24V = 91-165

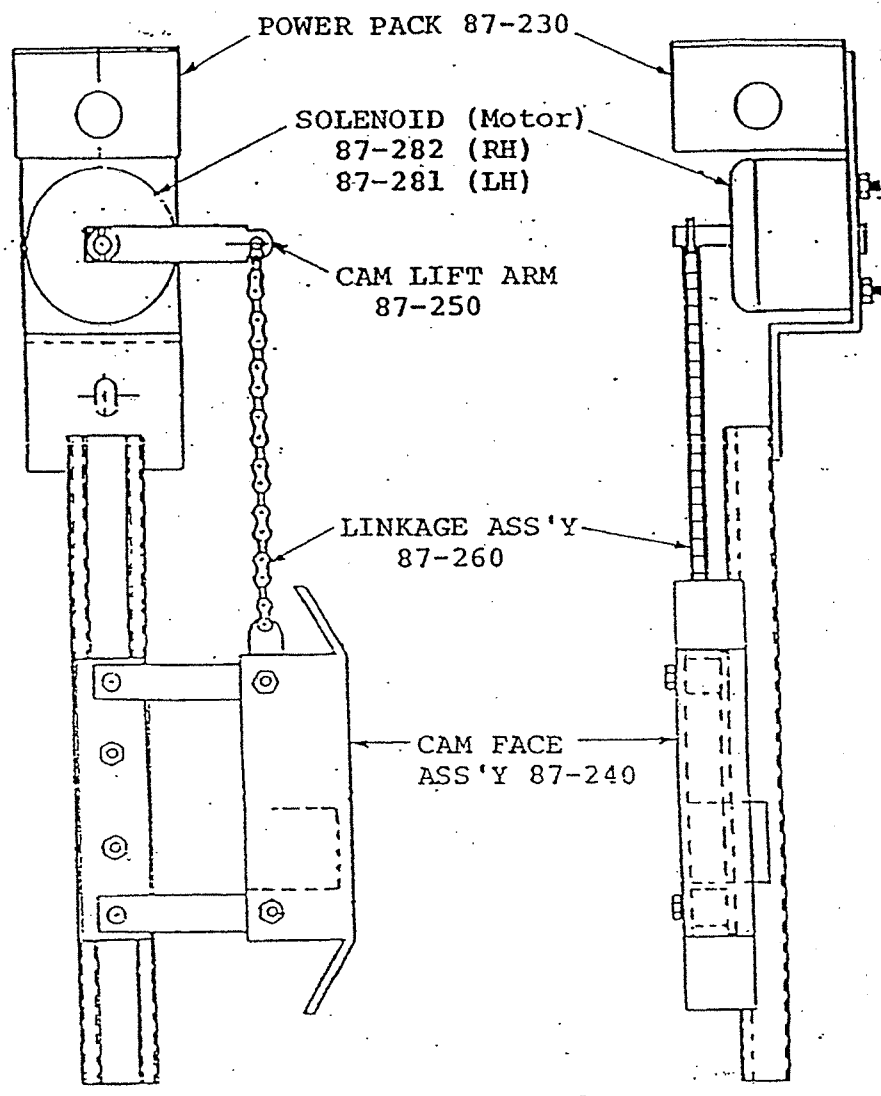


Indicator lens caps are available seperately.
Specify required designation.

60

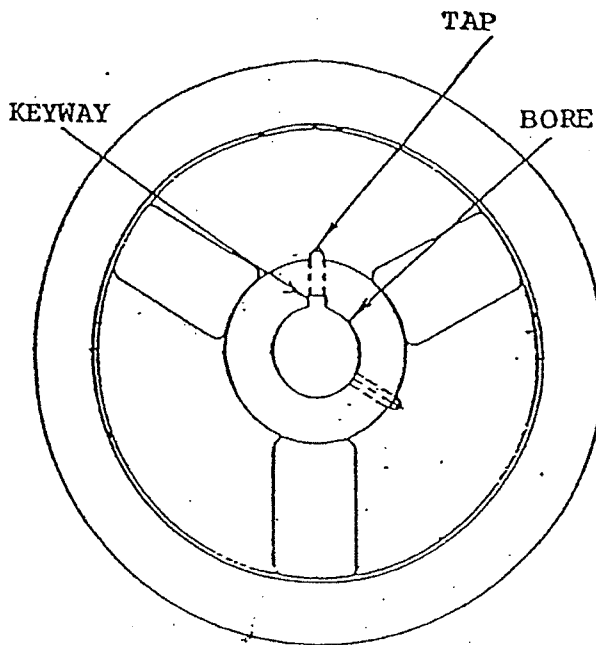
COMPLETE RETIRING CAM ASSEMBLY.

87-201 Right hand
87-202 Left hand



DUMBWAITER
RETIRING CAM

61



WE WILL NEED THE FOLLOWING INFORMATION WHEN ORDERING:

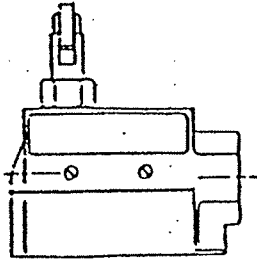
(note: the casting number is NOT the part number)

1. BORE
2. KEYWAY
3. SHEAVE DIAMETER
4. CABLE SIZE
5. SINGLE OR DOUBLE GROOVE
6. "V" GROOVE FOR DRIVE SHEAVE
"U" GROOVE FOR IDLER/DEFLECTOR SHEAVE

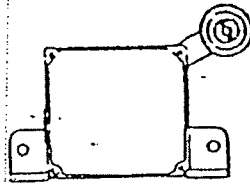
DRIVE AND IDLER/DEFLECTOR SHEAVES

ASSORTED SWITCHES

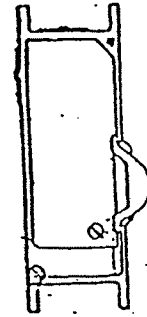
68



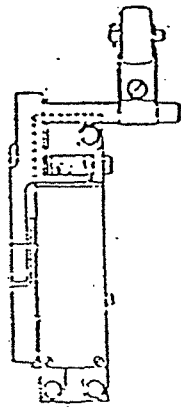
91-972
Gate Contact



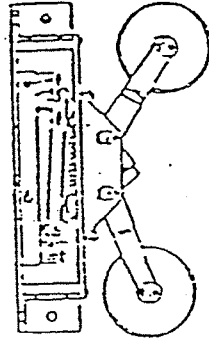
91-808
Limit Switch
Double Contact
1 N.O., 1 N.C.



91-820 Slack Cable Switch



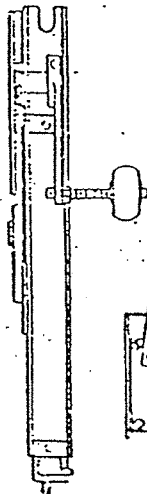
HG-1 INTERLOCK
91-811 Right Hand (shown)
91-812 Left Hand



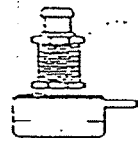
91-851 Intermediate
Floor Limit Switch



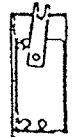
91-809 Limit Switch
2 N.O., 2 N.C. Contacts



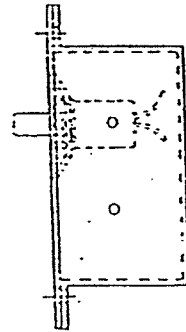
AS-1 INTERLOCK
P-21688 Right Hand (shown)
P-21687 Left Hand



CAR LIGHT SWITCH
91-910

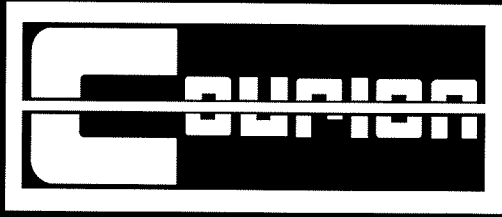


CONTACT FOR
AS-1 Interlock
R.H. - IL-C00250-1
L.H. - IL-C00250-2



Access Door
Switch 91-959

ASSORTED SWITCHES



*OPENING QUALITY DOORS
AROUND THE WORLD*

ONE COMPANY | *So Many Options*

**3044 Lambdin Avenue
St. Louis, Missouri 63115
1-800-533-5760 or 1-314-533-5700
1-314-533-5720 (fax)
sales@couriondoors.com**