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Door Uperators

Door Operators

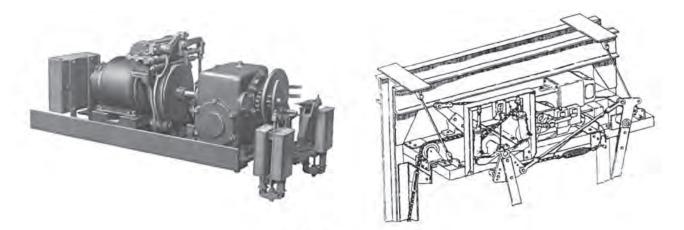
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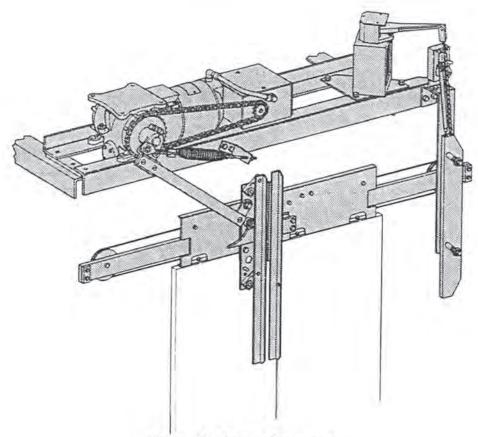
Door Operators

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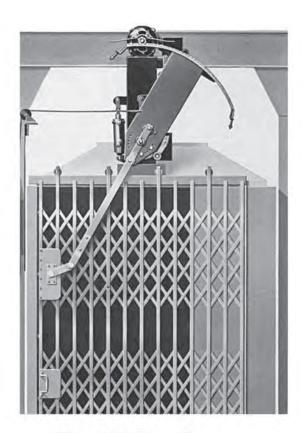
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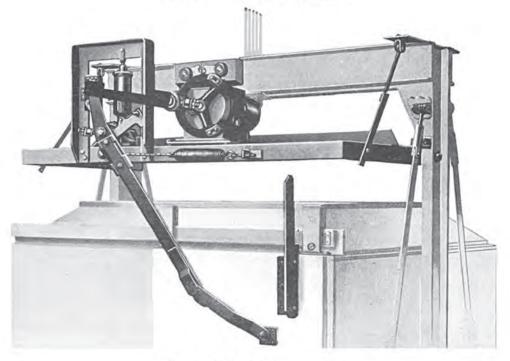
Type A Door Operator



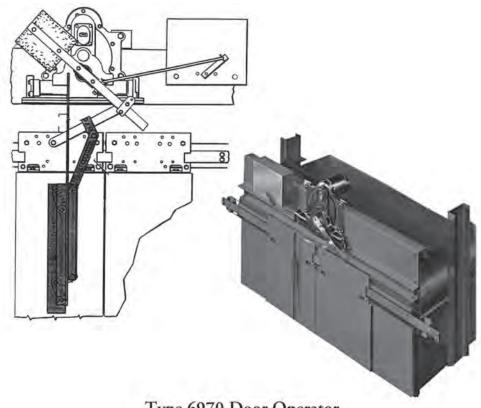
Type AB Door Operator



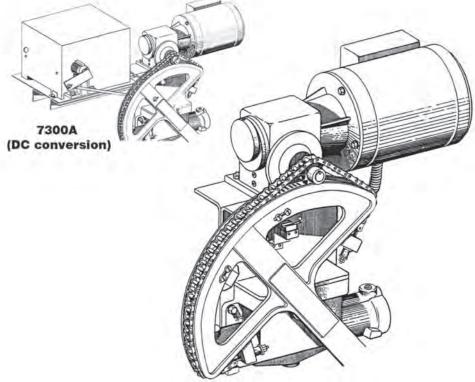
Type 30S Door Operator



Type O Door Operator

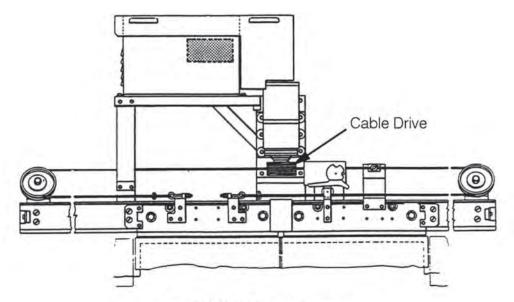


Type 6970 Door Operator

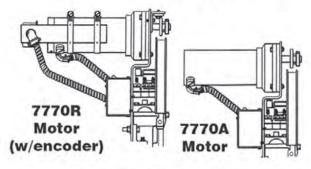


Type 7300 Door Operator

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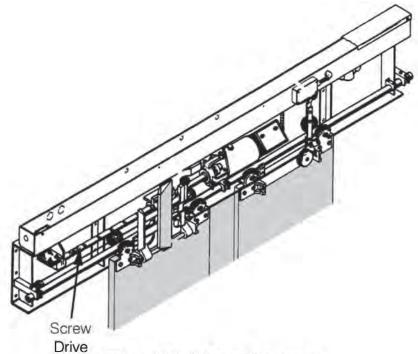


Type 7660A Door Operator

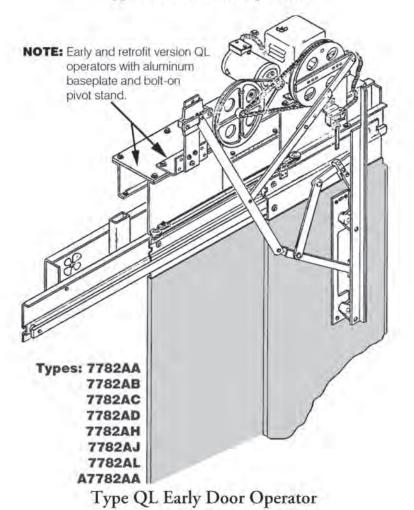


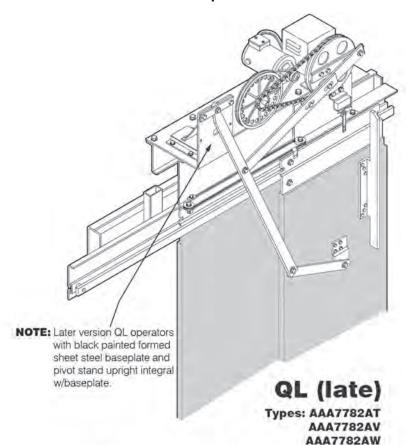


Type 7770A & R Door Operator

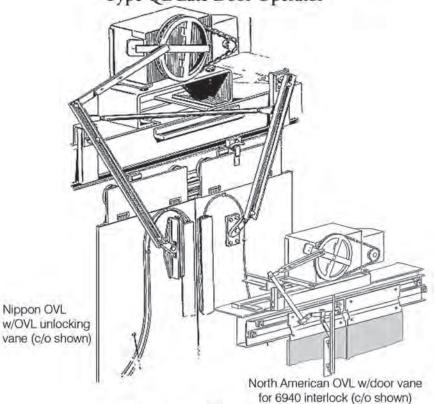


Type 7777A Door Operator



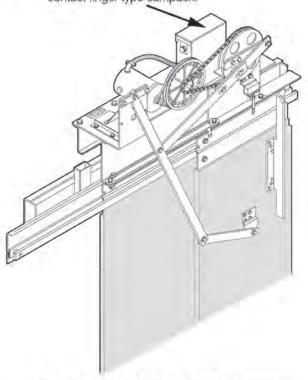


Type QL Late Door Operator

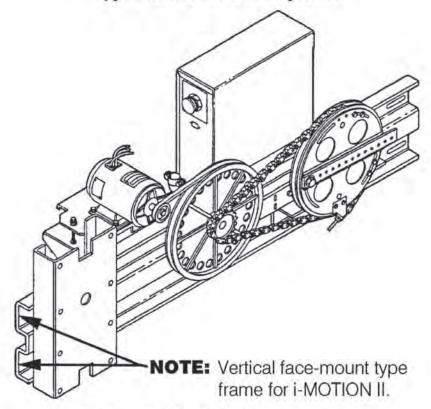


Type OVL Door Operator

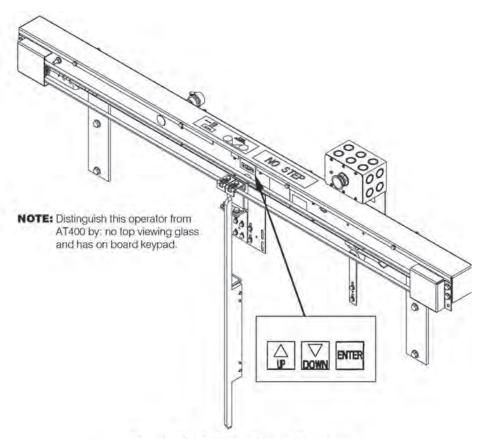
NOTE: Distinguish i-MOTION operators from late version QL operators by large control box with integral stop switch and no contact finger type campack.



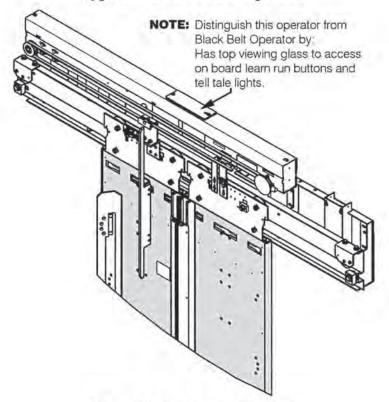
Type i-MOTION Door Operator



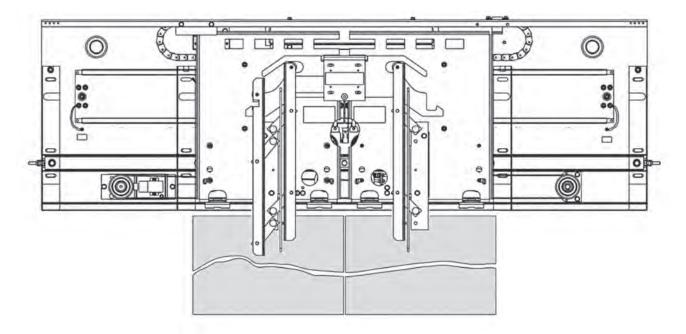
Type i-MOTION II Door Operator



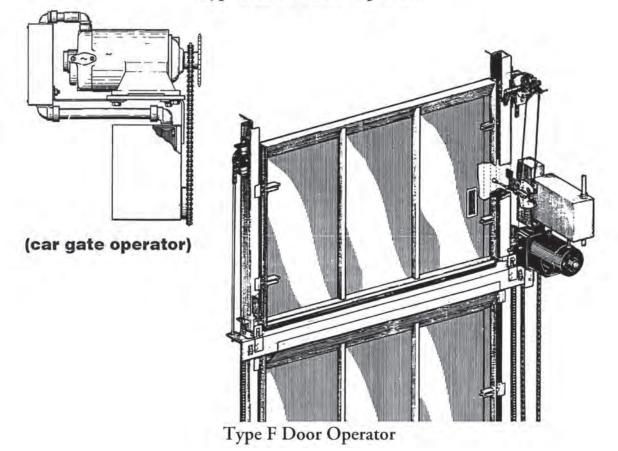
Type Black Belt Door Operator



Type AT400 Door Operator



Type HPLIM Door Operator



Door Operators: Common Spare Parts List

	st Common Spare Pa	
Operator Type	Part Number	Description
A Operator (***)	(***)	(***)
AB (***)	A332AS1	Chain, 7.2 in. L
No ()	91W2, 3, 4	Spring, Ext'n
	A6393A54	31ES Motor, AC
	VP-814551	1/3 HP Motor, DC
Type 'O' and O-1	353Y1	Disc, Rubber 3 in.
	74358	Chain Hitch Lug
	416P1	Brake Lining
30-S (***)	(Obsolete)	Chain
30-5 ()	(Obsolete)	Spool Drum
	(Rewind Local)	Geared Motor
	332AM4-L	Climber Chain
	332AM5-L	Power Chain
	332AV-L	Relating Chain
F (Vertical Doors)	456AS2	Roller, Relating Chain
	195DJ2	Motor Sprocket, 12T
	195AV3	Motor Sprocket, 16T
	195CN3	Motor Sprocket, 32T
	A237AJ2	Shoe, Door Guide
	6333AM1	Motor, 220 VAC
	633BX1	Motor, 220 VAC
and the second	195GK2	Sprocket, Motor
7300A Operator#	332BC2	Chain w/Stud Ends
	320BE2	Chain Bushing
	177AJ1	Microswitch SPDT
	E6970A501	Seals Kit
6970 Operator	E6970A500	Comp. Rebuild Kit
oor a operator	6333AJ1	Motor
7660A (***)	(***)	(***)
7770A Operator	6333CC13, 14	Gearmotor
7770R Operator	6333CC15, 18	Gearmotor
TATAL STREET	332BC2	Chain w/Stud Ends
7770A and R	177AJ1	Microswitch SPDT
	A456FC1	Roller, Hanger
7777A (Screw) #	AAA456ZE2	Roller, Upthrust
		Belt
	AAA717J1, 2, 3	Motor
	AAA6333EZ1	1110101
	AAA7782AY400	Cam Set and Shaft
QL Operators	AAA332BM500	Chain and Belt Upgrade
	AAA332BM3	Chain Upgrade Kit
	288TJ*	Drive Arm, Aluminum
	395E1 through 4	Pulley Arm, Drive
	395F1 or F2	Transmission Arm

^{*} Part number varies. Specify based on contract conditions.

	st Common Spare Par	
Operator Type	Part Number	Description
A Operator (***)	(***)	(***)
	JO332J1 through 4	Chains
	ACA327MS3	Cam, Split
OVL Operator	JO320AS2	Stop Bumper
OVE Operator	JO195AN* Type	Sprocket, Motor
	JAA26901AAE101	Set, Contact Finger
	AAA6333EH1	Gearmotor
	AAA50ATR1-1600	Guide, Secondary
UDI II A Consister	AAA24450P1	Encoder Assembly
HPLIM Operator	ABA24450N1	Brake Assembly
	AAA24350AK*	Copper Secondary
	AAA717J1, 2, 3	Belt
	AAA6333EZ1	Motor
I-MOTION Operator	395E4	Pulley Arm, Drive
	395F2	Transmission Arm
	AAA608D8	Sensor
	AAA717L1	Belt
	AAA6333EZ1	Motor
i-MOTION II Operator	AAA332BM2	Chain
	ABA2680AED*	PC Board
	AAA608D8	Sensor
	AAA717T1	Belt
B(-1 B-1 B-1 B-1 B-1	AAA26800AHJ1	PC Board
Black Belt Operator	AAA24350BL3, 4	Gearmotor
	6098MV2	Gate Switch
	AAA717T*	Belt
	AAA24350BL1, 2	Gearmotor
47400 Co	AAA25580AL*	Controller
AT400 Operator	AAA24431B1	Inductor Prox. Switch
	AAA25590T or W	Gate Switch Assembly
	AAA661B101	Gate Switch Cont.

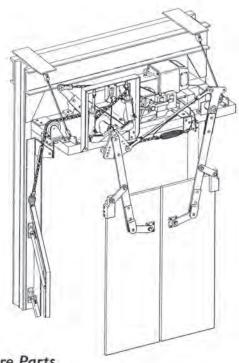
^{*} Part number varies. Specify based on contract conditions.

Door Operators: Service Status & Spare Parts Support

Se	ervice Status (see Key)		
0	Operator Type		
***	'A'		
***	'AB'		
***	30-S		
00	'O'		
۸	6970A		
#	7300A		
*	"F"		
*** 00	7660A		
#	7770A		
*, %	7770R		
#	7777A		
@, #, ^	QL (early vintage)		
@,#,^	QL (late vintage)		
@	OVL		
@	i-MOTION		
@, %	i-MOTION II		
@, %	Black Belt		
@, %	AT400		
@	HPLIM		

Key	Spare Parts Support		
***	Obsolete or Very Limited Spare Part Support—Consider Modernizing		
00	Little Spare Part Support—Upgrade to AT400		
٨	Rebuild Kits Available		
#	Use Pre-Engineered or Generic Package Adapting AT400		
*	Most Spare Parts Supported		
@ Full Spare Part Support—More Contemporary Operator			
%	Closed Loop Control		

Door Operators: [Type A(6411)] High Speed Operator

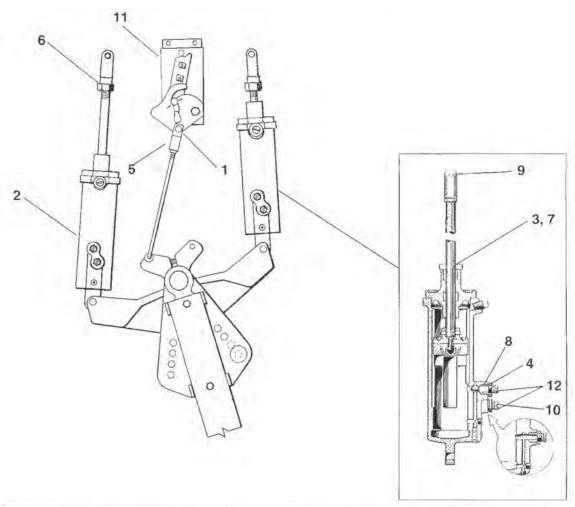


Motor Driven Power Unit Spare Parts

Part No.	Descriptions
207Z18	Bearing, ball
207W6	Bearing, ball (for worm shaft)
209B1	Bearing, roller (for gear shaft)
72609*	Block, terminal, 8 wire (for limit switch leads)
240C1	Brush, motor, 1/4" x 1"
221G1*	Coil, field, set of 2, for 110 or 220 volts
346B1*	Cover, worm shaft bearing
435B1	Fitting, 90° lubricator
435C1	Fitting, straight lubricator
376C1	Gasket, worm shaft bearing housing, .007" Thk., 2-25/32" I.D., paper
376D1	Gasket, worm shaft bearing cover, .007" Thk, 2-1/16" I.D., paper
376D2	Gasket, worm shaft bearing cover, .005" Thk., 2-1/16" I.D., paper
376T2	Gasket, gear shaft cover, .006" Thk., 7-29/32" I.D., paper
6189A1*	Holder, brush, complete
33A13	Seal, oil
255VB1	Shim, roller beaing, .005"
6098BC1	Switch, limit, complete (for open limit RH operator,
	close & speed limit LH operators)

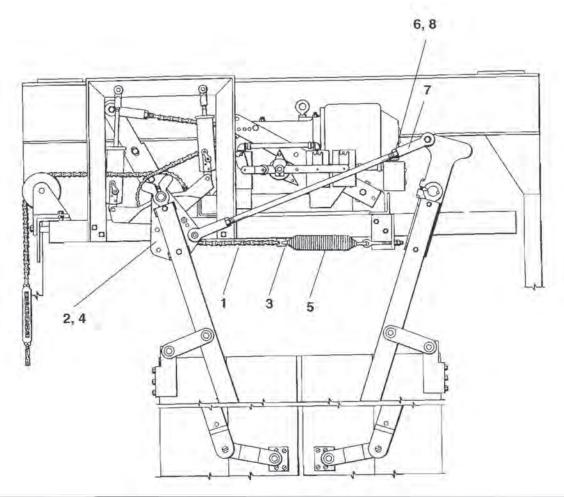
^{*}This item may require special order

Door Operators: [Type A(6411)] Car Door Check & Switch Unit Spare Parts



Ref. No.	Part No.	Descriptions
1.	321LA1	Bushing
2.	6546A1	Check, two port door, complete
3.	381B1	Gland, rod
4.	381C1	Gland, valve
5.	432A1	Lug, switch rod
6.	432E1	Lug, door check piston rod
7.	182B1	Packing, square flax
8.	182C1	Packing, asbestos ring
9.	77AM1	Pín, shouldered
10.	124DA1	Screw, 10-32 flat head machine (drilled for cotter pin)
11.	6098C5	Switch, complete, for RH operator
	6098C7	Switch, complete, for LH operator
12.	271D1	Valve

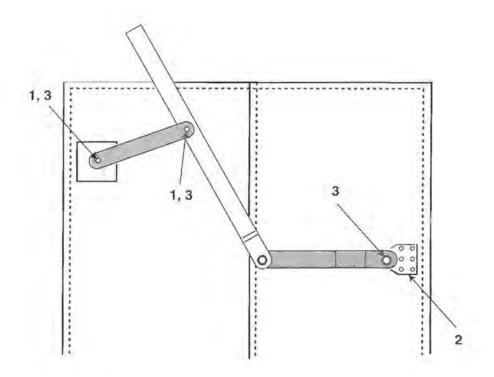
Door Operators: [Type A(6411)] Door Closing Spring Unit Spare Parts & Connecting Rod & Clevis Hitches



Ref. No.	Part No.	Descriptions
1,	332A3	Chain, spring, complete w/connecting links
2.	396AG2	Housing, complete w/ball bearing
3.	430S1	Link, spring chain (for 2S doors)
4.	462HA6	Spacer
5.	91T1	Spring, extension, 28 active turns (for C/O doors)
	91W1	Spring, extension, 30 active turns (for 2S/2S C/O doors)
6.	207H1	Bearing, ball, 1.26" O.D., .472" I.D.
7.	338Z1*	Clevis, 3/4" RH thread (for driving unit end of connecting rod)
	338Z2*	Clevis, 3/4" LH thread (for idler unit end of connecting rod)
8.	129AE1	Washer, felt, 1/4" x 1-3/4" x 3/32"

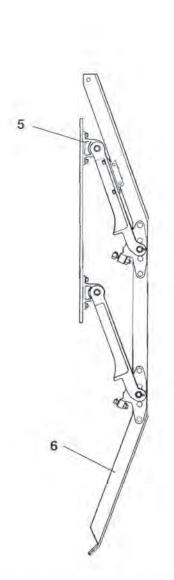
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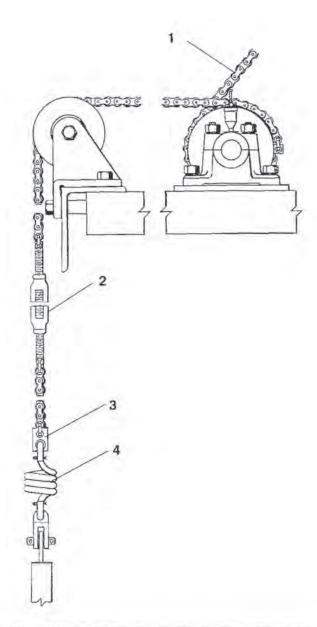
Door Operators: [Type A(6411)] Arm & Link Pivot Spare Parts



7R2	Bearing, ball, 1.81" O.D., .393" I.D.
6ZC1	Plate, link, 3" x 3-7/8" w/6 holes
7H1	Bearing, ball (door slide), 1.26" O.D., .472" I.D.
	6ZC1

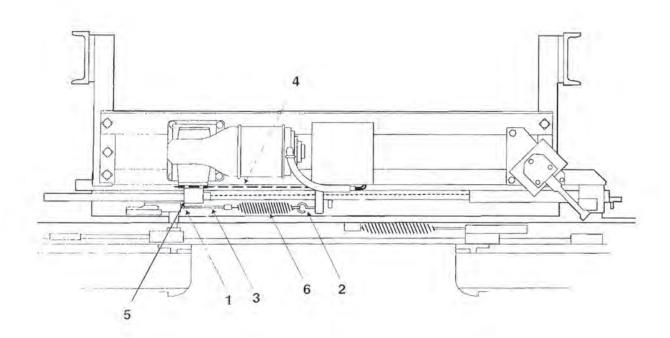
Door Operators: [Type A(6411)] Car Cam Chain Spare Parts





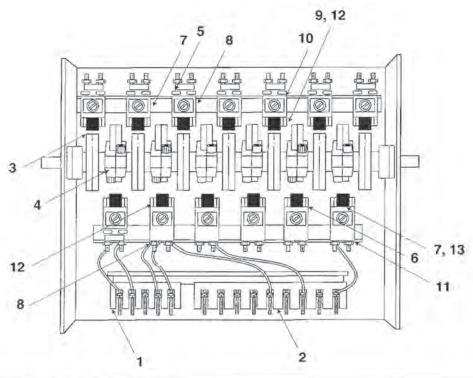
Ref. No.	Part No.	Descriptions
1.	332A4*	Chain, cam lever, #70 roller, 26-7/8" L
	332H1	Chain, car cam, #70 roller, 9'- 6-5/8" L (not shown)
2.	485B1	Trunbuckle
3.	430S1	Link, spring chain
4.	91Z1	Spring, extension
5.	207Z5	Bearing, ball (for lever bearing stand), 1.57" O.D., .67" I.D.
6.	207AA1	Bearing, ball (for cam), 1.57" O.D., .67" I.D., shielded

Door Operators: [Type AB] Operator Engine Spare Parts



Ref. No.	Part No.	Descriptions
i.	207J1	Bearing, ball (for housing),1.37" O.D., .502" I.D.
2.	56B1	Bolt, eye (for spring),1-1/2" O.D., 3/4" I.D., 6-3/4" L.
3.	332A5	Chain, spring, #147 diamond roller, 5/8" pitch, 3-1/8" L with links
4.	332AR1	Chain, ASA. #35 rollerless, 3/8" pitch, 57" L with links
	VP-736300	Chain, #35, 3/8" pitch
5.	396AG2	Housing with ball bearing
6.	186133	Brush, carbon motor, 3/4" W, 1/4" Thk, 7/8" L with pigtail
6.	186133	Brush, carbon motor, 3/4" W, 1/4" Thk, 7/8" L with pigtail

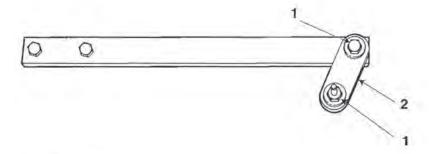
Door Operators: [Type AB] 6897C Mechanical Switch



Ref. No.	Part No.	Descriptions
i.	303H2	Board, 10 stud terminal
2.	303H1	Board, 18 stud terminal
3.	AAA327MV4	Cam assembly
	102CD9	Plate, marking (for 303H1) (not shown)
4.	172GF1	Ring, 7/32" I.D.
5.	6554A1	Switch, mechanical, making contact
6.	6554B1	Switch, mechanical, breaking contact
Switch Parts	·	
7.	287AD2	Arm, switch with roller & pin
8.	306AK2	Base, contact with bushing
9.	335E13	Bushing, oil-less (for roller)
	93A2	Contact, movable (not shown)
10.	152T1	Contact, stationary (for 6554A1)
11.	152R1	Contact, stationary (for 6554B1)
12.	77AP1	Pin, headed (for roller)
13.	456AE2	Roller, with bushing

Door Operators

Door Operators: [Type AB] Operating Arm Spare Parts

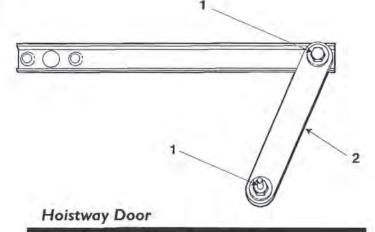


Car Door

Ref. No. Part No. Descriptions

1.	207R2	Bearing, ball (for link)
		1.811" O.D., .393" I.D.
2.	430TA5	Link, 7-3/4" L
	420TA0	Link 9.3/1"1

430TA35 Link, 13" L 430TA39 Link, 20-1/4" L

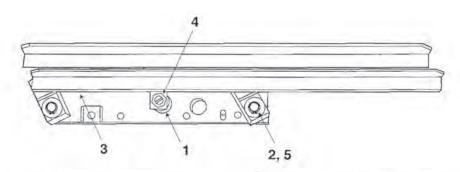


Ref. No. Part No. Descriptions

 207R2 Bearing, ball (for link), 1.811" O.D., .393" I.D.

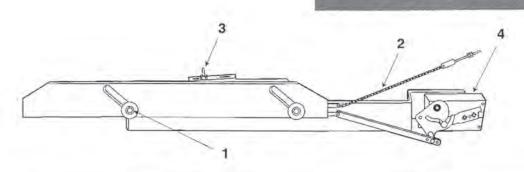
430TA35 Link, 13" L
 430TA38 Link, 18-1/4" L
 430TA39 Link, 20-1/4" L

Door Operators: [Type AB] Engaging Cam Spare Parts



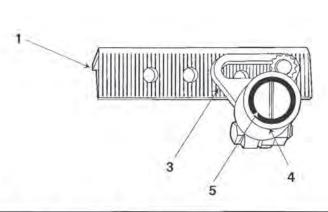
Ref. No.	Part No.	Descriptions	
1.	207Z4	Bearing, ball with pin, 1.37" O.D., .591" I.D.	
2.	209E1	Bearing, roller (for link), 1.45" O.D., .502" I.D.	
3.	320AP1	Bumper, rubber	
4.	72AF2	Nut, special, 1/2" hex (for ball bearing)	
5.	172DE9	Ring, external retaining	

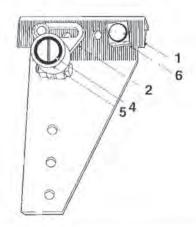
Retiring Cam Spare Parts



Ref. No.	Part No.	Descriptions	
1.	207P1	Bearing, ball, .75" O.D., .25" I.D.	
2.	332AN1	Chain with rod & links	
3.	95BL1	Stud, adjusting, 5" L	
4.	6098C3	Switch, mechanical (as shown)	
	6098C1	Switch, mechanical (opposite)	

Door Operators: [Type AB] Operator Roller Spare Parts

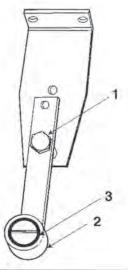




Ref. No.	Part No.	Descriptions
1.	316BCR1*	Bracket, mounting
2.	316BCS5*	Bracket, roller, with roller, pin & washers (for SS & 2-speed doors)
3.	316BCS3	Bracket, roller, with roller, pin & washers (for C/O doors)
4.	77A5	Pin, roller, 2-5/32" L
5.	456C3	Roller, rubber, 1-9/32" L
6.	131BT1	Washer, 1" Sq, 1/4" Thk

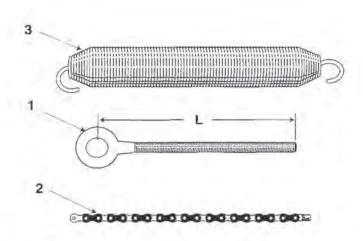
^{*}This item may require special order

Unlocking Lever Spare Parts



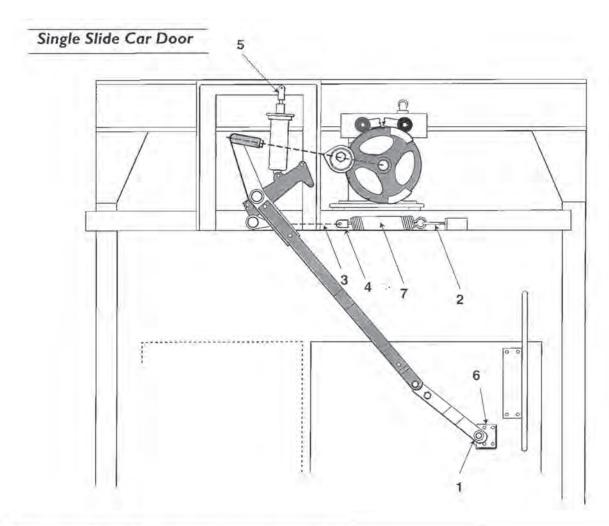
Ref. No.	Part No.	Descriptions	
1.	72A1	Nut, 3/8" hex, 3/16" thk, steel	
2.	456C2	Roller, rubber, 1-5/32" L	
3.	124BG1	Screw, 2" L	

Door Operators: [Type AB] Hoistway Door Springs



Ref. No.	Part No.	Descriptions
1.	56B1	Bolt, eye, 1-1/2" O.D., 3/4" I.D., L=6-3/4"
2.	A332AS1	Chain, 7-1/8" L, with link & stud
3.	91W2	Spring, extension, 1-3/8" O.D., 10-3/4" L, 64 active turns
	91W3	Spring, extension, 1-3/8" O.D., 13-11/16" L, 80 active turns
	91W4	Spring, extension, 1-3/8" O.D., 14-3/4" L, 80 active turns

Door Operators: [O&O-1] Door Operator Spare Parts Single Slide Car Door



Ref. No.	Part No.	Descriptions	
1.	207R2	Bearing, ball 1.811" O.D., .393" I.D.	
2.	56B1	Bolt, spring eye	
3.	332A1	Chain, spring, 10-5/8" L	
4.	430S1	Link, spring chain	
5.	432E1	Lug, door check	
6.	386TR1*	Plate, link, 2-1/2" W x 3-1/4" L, with 4 holes	
	386ZC1	Plate, link, 3" W x 3-7/8" L, with 6 holes	
7.	91W1	Spring, extension	

^{*}This item may require special order

Door Operators: Type 'O' to AT400 Upgrade Flyer

HIGHEST QUALITY PRODUCTS • UNBEATABLE CUSTOMER SERVICE

YESTERDAY The Otis 'O' Door Operator

A Great History and Workhorse reputation ...but that's the problem

- Dwindling Castings
- Expensive Spare Parts
- Lots of Maintenance



"O" OPERATOR CONVERSION

"O" Operator Conversion Kit

Includes:

AT400 Operator and associated kits

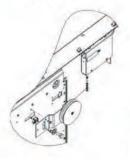
& Interlock

- 6940 type locks with unlocking devices
- Folding door restrictor
- Lambda III door protection device

TODAY AT400 DOOR OPERATOR

The Go-To Operator

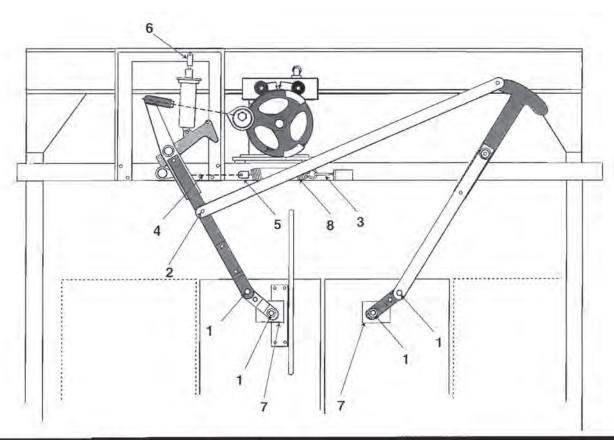
- Lightweight-Feedback Control
- Linear Belt Driven
- Quiet and Less Maintenance







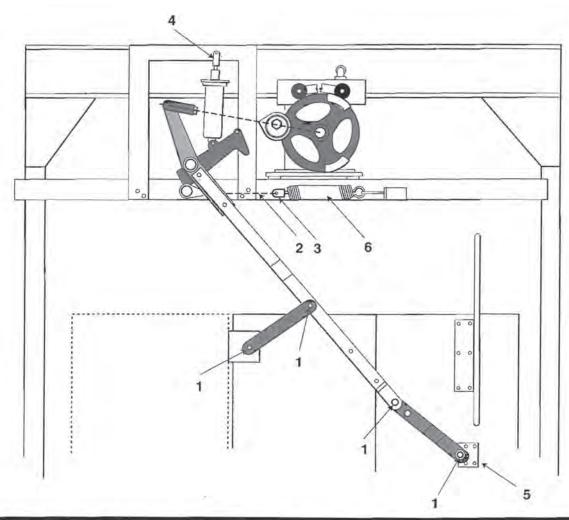
Door Operators: [O&O-1] Door Operator Spare Parts Center Opening Car Doors



Ref. No.	Part No.	Descriptions
á.	207R2	Bearing, ball, 1.811" O.D., .343" I.D.
2.	207H1	Bearing, ball, 1.26" O.D., .472" I.D.
3.	56B1	Bolt, spring eye
4.	332A2	Chain, spring, 13-1/8" L
5.	430S1	Link, spring chain
6.	432E1	Lug, door check
7.	386TR1*	Plate, link, 2-1/2" W x 3-1/4" L, with 4 holes
	386ZC1	Plate, link, 3" W x 3-7/8" L, with 6 holes
8.	91W1	Spring, extension

^{*}This item may require special order

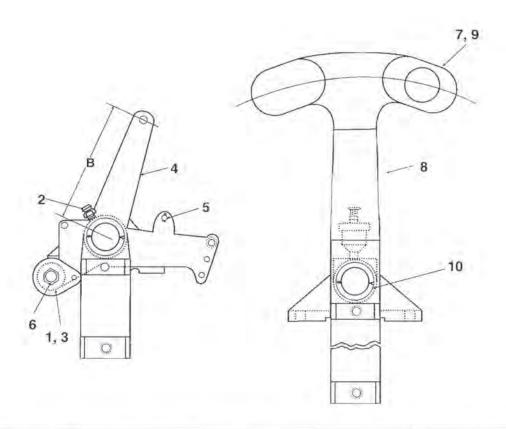
Door Operators: [O&O-1] Door Operator Spare Parts Two Speed Car Doors



Ref. No.	Part No.	Descriptions
1.	207R2	Bearing, ball, 1.811" O.D., .393" I.D.
2.	332A2	Chain, spring, 13-1/8" L
3.	430S1	Link, spring chain
4.	432E1	Lug, door check
5.	386TR1*	Plate, link, 2-1/2" W x 3-1/4" L, with 4 holes
	386ZC1	Plate, link, 3" W x 3-7/8" L, with 6 holes
6.	91W1	Spring, extension

^{*}This item may require special order

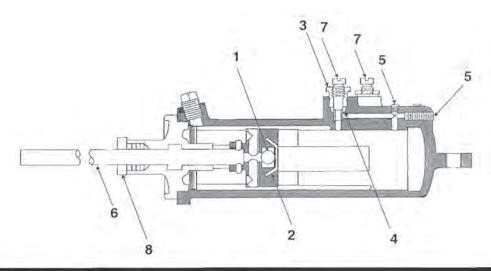
Door Operators: [O&O-1] Drive Swinging Arm Pivot Assembly



Ref. No.	Part No.	Descriptions
1.	207J1	Bearing, ball, .502" I.D., 1.37" O.D.
2.	435C1	Fitting, lubricator
3.	396AG2	Housing with bearing
4.	379C1*	Lever, operating, RH, B= 8"
	379C2	Lever, operating, LH, B= 8"
	379P1	Lever, operating, RH, B= 10-9/16"
	379P2	Lever, operating, LH, B= 10-9/16"
5.	82A29	Pin, 3/8" Dia., 1-3/4" L
6.	127A1	Washer, steel, 1-5/16" I.D., 2" O.D., 7/64" Thk
7.	207H1	Bearing, ball, .472" I.D., 1.26" O.D.
8.	A6098B32	Switch, mechanical
9.	129AE1	Washer, felt, 1-1/4" I.D., 1-3/4" O.D., 3/32" Thk
10.	127A1	Washer, steel, 1-5/16" I.D., 2" O.D., 7/64" Thk

^{*}This item may require special order

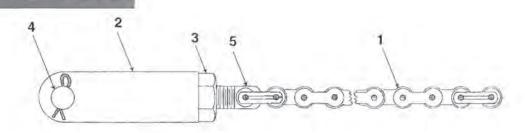
Door Operators: [O&O-1] Door Check Spare Parts



Ref. No.	Part No.	Descriptions
1.	295B1	Ball, steel, 3/8"
2.	339AD1	Clip
3.	381C1	Cylinder
4.	182C1	Packing
5.	97G1	Rod, 1/4" Dia., 5/8" L
6.	96HA1*	Rod, 1/2" Dia., 8-7/8" L
7.	271D1	Valve
8.	129AE6	Washer, leather
2. 3. 4. 5. 6.	339AD1 381C1 182C1 97G1 96HA1* 271D1	Clip Cylinder Packing Rod, 1/4" Dia., 5/8" L Rod, 1/2" Dia., 8-7/8" L Valve

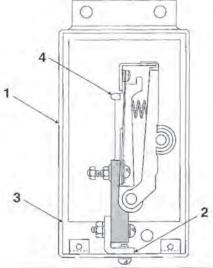
*This item may require special order

Chain Assembly



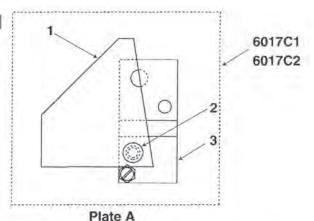
Ref. No.	Part No.	Descriptions	
1.	VP-736975	Chain, #148 diamond, 1/4" W, 5/8" pitch	
2.	FA1135	Jaw	
3.	72AF2	Nut	
4.	78E1	Pin, chain hitch	
5.	814628	Screw, chain hitch	

Door Operators: [O&O-1] Mechanical Switch



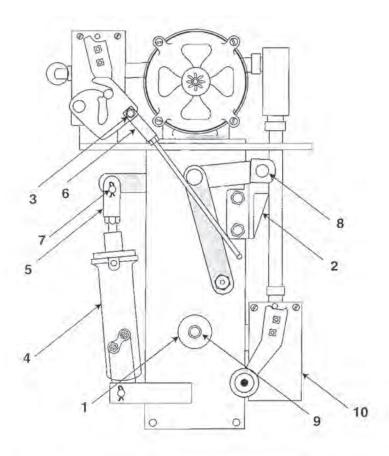
Part No.	Descriptions	
308HA2	Box, switch, with lining	
316RZ1	Bracket, switch	
346DP2	Cover, switch box with lining	
6554B1	Switch, mechanical, breaking	
	308HA2 316RZ1 346DP2	308HA2 Box, switch, with lining 316RZ1 Bracket, switch 346DP2 Cover, switch box with lining

Latch Operating Cam (For emergency key)



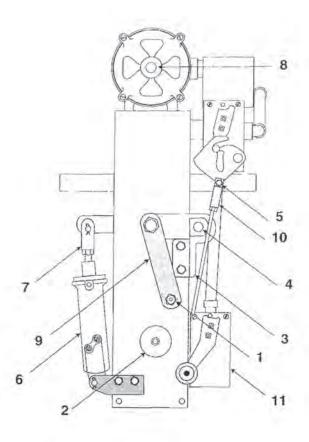
Ref. No.	Part No.	Descriptions
	6017C1	Latch operating cam, complete, as shown
	6017C2	Latch operating cam, complete, opposite
1.	A327BA1	Cam, latch
2.	77AA1	Pin
3.	B386LC1	Plate A, as shown
	B386LC2	Plate A, opposite
	194D2	Key, emergency, lunar (not shown)

Door Operators: [30-S] Electric Operator Spare Parts with 6256A Operator Engine with Gear Drive



Ref. No.	Part No.	Descriptions
Ĥ.	209E3	Bearing, roller
2.	316FK1	Bracket, check yoke lever
-	184450	Brush, motor, 7/16" Sq., 1" (not shown)
3.	321LA1	Bushing, switch lug
4.	6546A1	Check, door, complete
5.	338Y3	Clevis, piston rod
6.	432A1	Lug, switch rod
7.	82A1	Pin, 3/8" Dia., 1-5/16" L
8.	82G1	Pin, 5/8" Dia., 2-7/16" L
9.	77GC1	Pin, shoulder, 1" Dia., 4-3/8" L
10.	6098C5	Switch, mechanical (for door or gate contact)
	A6098B31	Switch, mechanical (for limit switch)

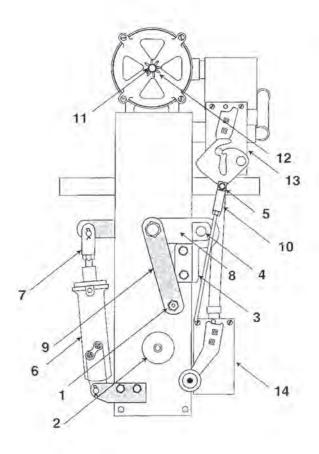
Door Operators: [30-S] Electric Operator Spare Parts with 6256W Operator Engine with Chain Drum Drive



Ref. No.	Part No.	Descriptions
1.	207E4	Bearing, ball (for link), 1.12" O.D., .5" I.D.
2,	209E3	Bearing, roller, 1.75" O.D., 1.00" I.D. 5/8" Dia., 3/8" thread
3.	316FK1 184450	Bracket, check yoke lever Brush, motor, 7/16" Sq., 1" L (not shown)
4.	335E9	Bushing, check yoke lever
5.	321LA1	Bushing, switch lug
6.	6546A1	Check, door, complete
7.	338Y3	Clevis, piston rod
8.	6487A1	Drum, chain, complete
9.	430TA24	Link with 1-1/8" holes on 6-9/16" centers
	430TA25	Link with 1-1/8" holes on 7-13/32", centers (not shown)
10.	432A1	Lug, switch rod
	90LB3	Spring, compression (for chain) (not shown)
11.	6098C5	Switch, gate, complete
	A6098B31	Switch, limit, complete

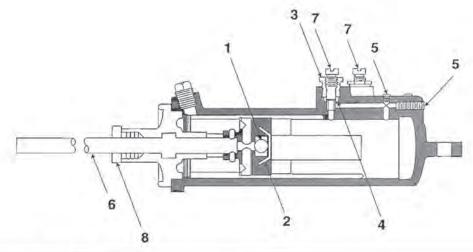
Otis Elevator Company csemailorders

Door Operators: [30-S] Electric Operator Spare Parts with 6256W Operator Engine with Chain Sprocket Drive



Ref. No.	Part No.	Descriptions
1.	207E4	Bearing, ball (for link),
		1.12" O.D., .5" I.D.
2.	209E3	Bearing, 1.75" O.D., 1.00" I.D.
3.	316FK1	Bracket, check yoke lever
4.	335E9	Bushing, check yoke lever
5.	321LA1	Bushing, switch lug
6.	6546A1	Check, door, complete
7.	338Y3	Clevis, piston rod
8.	B379EA2	Lever, check yoke, with link, bearings, bolt, nut & washers (for 60 angle swing)
	B379EA3	Lever, check yoke, with link, bearings, bolt, nut & washers (for 75 angle swing)
9.	430TA24	Link with 1-1/8" holes on 6-9/16" centers
	430TA25	Link with 1-1/8" holes on 7-13/32" centers
10.	432A1	Lug, switch lug
11.	172ES3	Ring, external retaining (for sprocket)
12.	195CP2	Sprocket, 9 teeth
13.	6098C5	Switch, gate, complete
14.	A6098B35	Switch, limit, complete (for AC collective w/attendant only)
	A6098B31	Switch, limit, complete (for all conditions other than AC collective w/attendant)

Door Operators: [30-S] Two Port Door Check (6546A)



Ref. No.	Part No.	Descriptions	
1.	295B1	Ball, steel, 3/8"	
2.	339AD1*	Clip	
3.	381C1	Cylinder	
4.	182C1	Packing	
5.	97G1	Rod, 1/4" Dia., 5/8" L	
6.	96HA1*	Rod, 1/2" Dia., 8-7/8" L	
7.	271D1	Valve	
8.	129AE6	Washer, leather	
		A CANADA A MANAGA A CANADA A C	

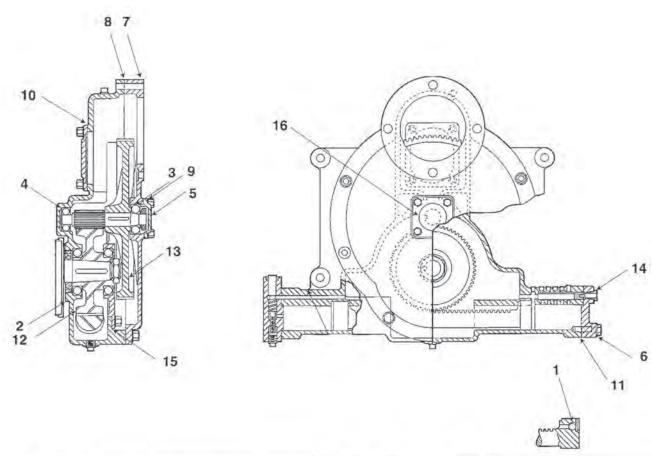
^{*}This item may require special order

Retiring Cam Chain Spare Parts For hoistway Doors with 'L' Door Locks



Part No.	Descriptions
6257A1	Chain, cam, complete "L" approx. 62" long
130784	Connector, chain
80624	Pin, 3/32" Dia., 1/2" L (chain to cam & engine)

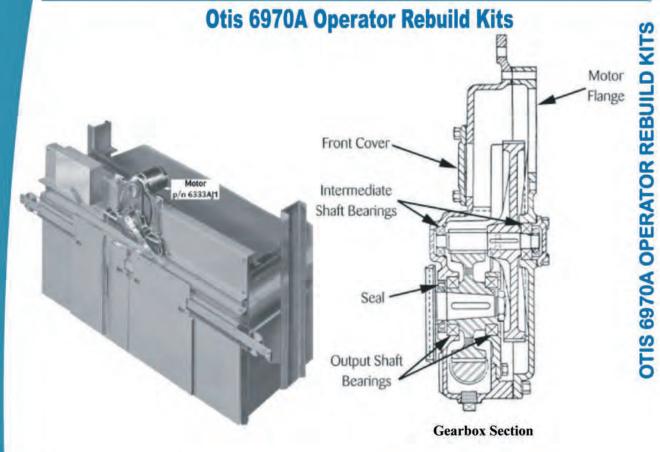
Door Operators: [6970A] Reciprocating Gear Unit Spare Parts



Ref. No.	Part No.	Descriptions	Ref. No.	Part No.	Descriptions
1.	295B1	Ball, 3/8" steel (for piston)	10.	376CV1	Gasket, plastic, (access
2.	207AY1	Bearing, ball (for slow-			cover to case)
		speed shaft)	11.	376CX1	Gasket, plastic (cylinder
3.	207Z39	Bearing, ball (for gear			cover to case)
		case cover)	12.	A205E1	Gear, spur, 69 teeth,
4.	209P3	Bearing, roller (for gear			tapered bore
		case)	13.	A199AB1	
5.	346YX1*	Cover, bearing		/A199AA1	Gear/pinion set, 8.54:1
6.	346YY1	Cover, cylinder	14.	381C2	Gland (for cylinder cover)
7.	346AAA1*	Cover, gear case	15.	396DP1	Housing, bearing
8.	376DB1	Gasket, plastic (gear case	16.	192G112	Key, 3/16" sq., 1-1/2" L
		cover to case)			(for spiral gear)
9.	376CY1	Gasket, plastic (bearing			
		cover to gear case cover)	* This iten	n may requir	e special order
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Door Operator: Otis 6970A Operator Rebuild Kits

HIGHEST QUALITY PRODUCTS . UNBEATABLE CUSTOMER SERVICE



Ever start a job and not have all the parts?

Don't start another 6970A operator rebuild without a complete kit!

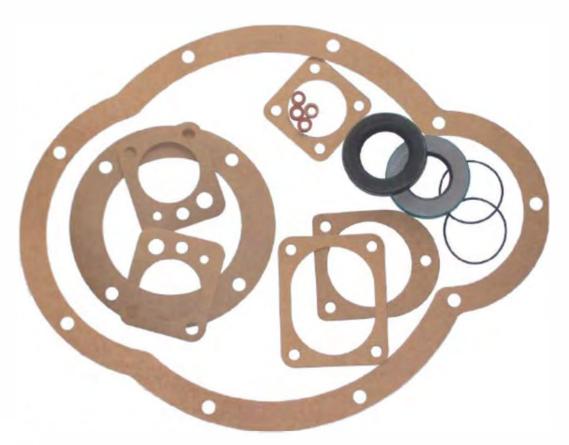


6970A Operator Rebuild Kit (p/n E6970A500)

Door Operators: Otis 6970A Operator Rebuild Kits

HIGHEST QUALITY PRODUCTS • UNBEATABLE CUSTOMER SERVICE

Rebuild kits for your Otis 6970A door operator provide all the key components to make your repair a success.

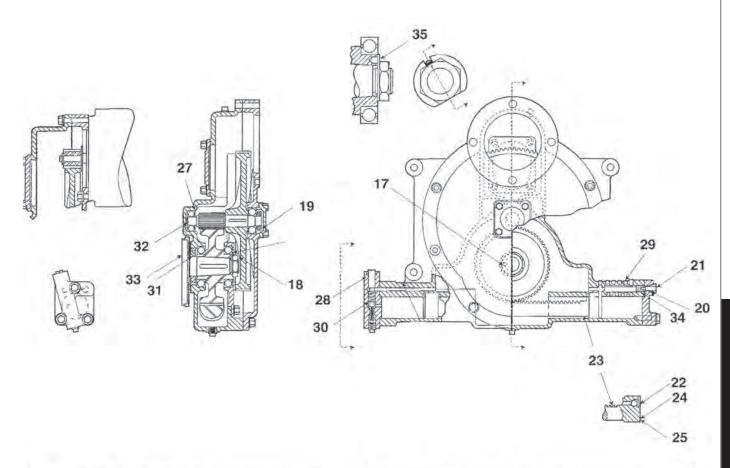


6970A Gaskets and Seals Kit (p/n E6970A501)

Whether you're just replacing seals & gaskets or doing a complete recondition (including bearings & brushes), we've got you covered.

OTIS

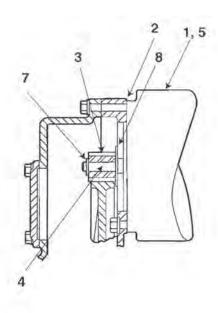
Door Operators: [6970A] Reciprocating Gear Unit Spare Parts

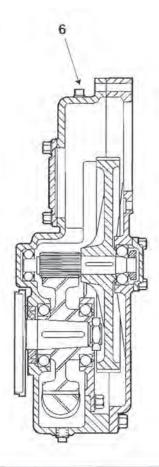


Ref. No.	Part No.	Descriptions	Ref. No	o. Part No.	Descriptions
17.	192G12	Key	27.	172CY2	Ring, internal retaining
		(for shaft #A494GG1)	28.	172JJ1	Ring, rubber, 1/2" Dia.,
	192D56	Key, 5/16" sq., 2-21/2" L			11/16" O.D., 3/32" Thk
18.	72AF3	Nut, 1"- 20EF thread	29.	97G1	Rod, 1/4" Dia., 5/8" L
19.	72BV15	Nut, slotted lock	30.	124BM1	Screw, adjusting
20.	182C1	Packing, 9/32" I.D.,	31.	33D14	Seal, clipper oil,
		1/2" O.D., 5/32" Thk			2-3/4" O.D., 1-11/16" I.D.
21.	77PJ1	Pin, adjusting		33D19	Seal, clipper oil,
22.	78T29	Pin, 1/16" Dia., 11/16" L		Svene	2-3/4" O.D., 1-1/2" I.D.
23.	A442AF1	Piston, rack	32.	A494GG1*	Shaft, slow speed, tapered
24.	172GN2	Ring, inner piston	33.	A494GH1	Shaft, pinion
25.	172GN1	Ring, outer piston	34.	271E1	Valve, 1/2" O.D., 3" L
26.	172DE14	Ring, external retaining	35.	130AA15	Washer, bearing lock

^{*} This item may require special order

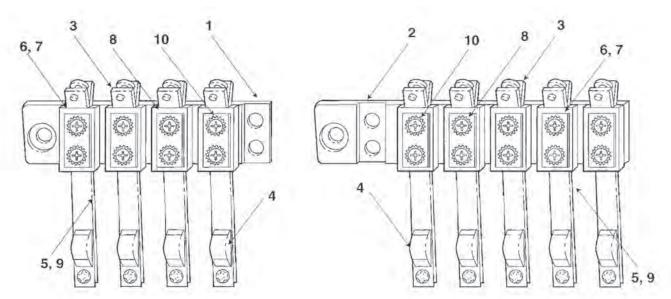
Door Operators: [6970A] Mounting Parts for Motor





Ref. No.	Part No.	Descriptions
11.	186206	Brush, motor, carbon, 1/2" sq., 13/16" L with spring & pigtail
	186207	Brush, motor, carbon, 1/4" x 3/8" x 13/16" L with spring & pigtail
2.	376DE1	Gasket, plastic (Motor to unit)
3.	A199AB1/A199AA1	Gear/Pinion set
4.	192E49	Key, 1/28" sq., 1-3/8" L (for gear)
5.	6333AJ1	Motor, G.E., 1/2 HP, D.C.
6.	444AT1	Plug, vent, 1/4"
	444AT2	Plug, vent, 1/4" Plug, vent, 1/2" QUALITY
7.	172DE11	Ring, external retaining (for gear) Washer, oil sling (for motor shaft)
8.	131CD1	Washer, oil sling (for motor shaft)

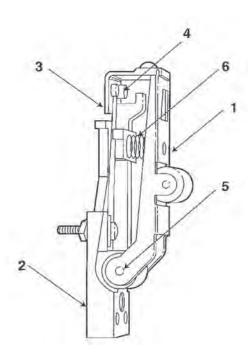
Door Operators: [6970A] Stopping Switch (4, 5 or 6 Contacts)



Contact assembly part numbers: 6850Y1 thru Y5. OSC can help identify.

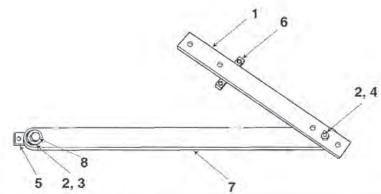
Ref. No.	Part No.	Descriptions
1.	306DS3	Base, contact, 4-5/16" L (for 4 contacts)
2.	306DS1	Base, contact, phenolic, 5-1/16" L (for 5 or 6 contacts)
3.	176BF1	Connector, copper
4.	150P43	Contact, movable spring, with cam
5.	150P32	Contact, stationary spring
6.	464P3	Separator, phenolic, insulating, 15/16" L
7.	464P4	Separator, phenolic, insulating, 1-1/8" L
8.	255EB27	Shim, steel, 15/16" L
9.	93BM2	Spring, contact backing
10.	137E7	Tube, polyvinyl, 5/8" L

Door Operators: [6970A] Mechanical Switch

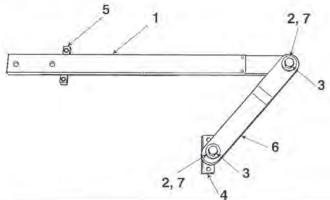


Ref. No.	Part No.	Descriptions
1.	287AD2	Arm, switch, with roller & pin
2.	306AK2	Base, contact, with bushing
3.	152R1	Contact, copper, with silver inlay
4.	93A2	Contact, spring
5.	77AP1	Pin, headed
6.	90JA4	Spring, compression

Door Operators: [6970A] Operator Arm Assemblies for Center Opening Doors

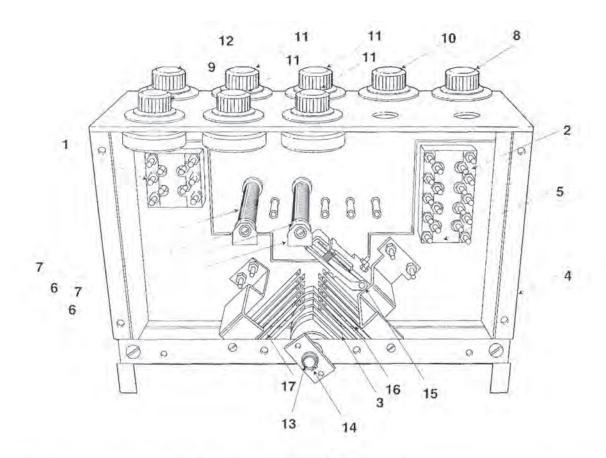


Ref. No.	Part No.	Descriptions
1.	288KL1	Arm, operator with bushings
2.	207R2	Bearing, ball (for link)
3.	65EA4	Bolt, hex head, 3/8" Dia., 23/32" L
4.	59A2	Bolt, hex head, 3/8" Dia., 1-1/16" L
5.	316BTW2	Bracket
6.	335E52	Bushing, oil-less (for arm)
7.	430TA44	Link, 26-3/4" L, with bearings
8.	127VB52	Washer
For Sins	gle Slide/	5 1 2,7
2-Speed	Doors	5



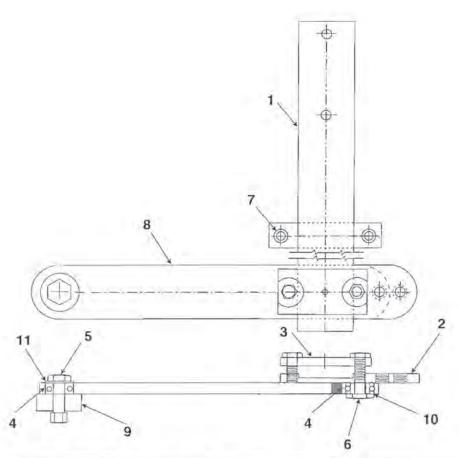
Ref. No.	Part No.	Descriptions
1.	A288JY1	Arm, 26-7/8" L, complete with link #B430CG1
	A288JY2	Arm, 29-11/16" L, complete with link #B430CG2
	A288JY3	Arm, 32-3/8" L, complete with link #B430CG3
2.	207R2	Bearing, ball (for link)
3.	65EA4	Bolt, hex head
4.	316BTW1	Bracket
4. 5.	335E52	Bushing, oil-less (for arm)
6.	B430CG1	Link, 13-5/8" L, without bearings
	B430CG3	Link, 19" L, without bearings
7.	127VB52	Washer

Door Operators: [6970A] Door Control Box Spare Parts



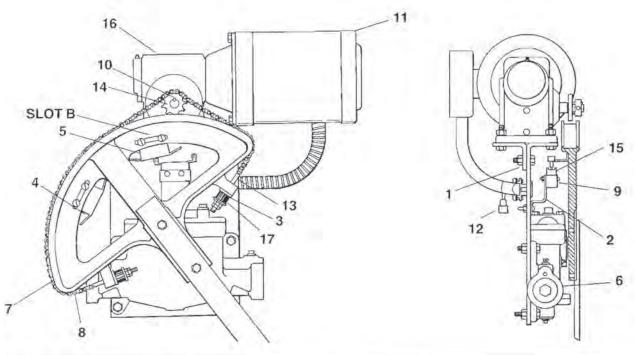
Ref. No.	Part No.	Descriptions	Ref. No.	Part No.	Descriptions
	9970A1	Control box, complete	10.	232P22	Rheostat, 50 Watts,
1.	303H2	Block, 10 stud terminal			1000 Ohms
2.	303H1	Block, 18 stud terminal	11.	232P18	Rheostat, 50 Watts,
3.	AAA327MV4	Cam			2500 Ohms
4.	336CZ1	Clamp, plastic	12.	232P19	Rheostat, 50 Watts,
5.	102CD13	Plate, marking			300 Ohms
6.	102DA1	Plate, marking	13.	172DE20	Ring, external retaining
7.	232B18	Resistor, 1000 Ohms	14.	494GX2	Shaft, with bushings,
8.	232P20	Rheostat, 50 Watts,	15.	6554B1	Switch, mechanical
		500 Ohms	16.	6850Y5	Switch, stopping (5 contacts
9.	232P21	Rheostat, 50 Watts,	17.	6850Y1	Switch, stopping (6 contacts
		800 Ohms		6599A3	Switch, toggle, SPST
Э.	232721	A STANDARD OF THE STANDARD OF	17.		

Door Operators: [6970A] For 1-Speed, 2-Speed & C/O Doors



Ref. No.	Part No.	Descriptions
1.	288KL7	Arm, operator, with bushings
	288KL9	Arm, operator, with bushings
2.	299XT1	Bar, 4-7/16" L
3.	299XW1	Bar, 2-7/8" L
4.	207R2	Bearing, roller (For link), .393" I.D., 1.81" O.D.
5.	59A4	Bolt, 3/8-24, 1-5/8" L
6.	59A5	Bolt, 3/8-24, 1-5/16" L
7.	355E52	Bushing, oil-less, 1/4" I.D., 7/16" O.D., 1/2" L
8.	430TA38	Link, 18-1/4" L
	430TA39	Link, 20-1/4" L
	430TA46	Link, 14-3/4" L
9.	462HA45	Spacer, 13/32" I.D., 1/32" Thk
10.	127VB52	Washer, .395" I.D., 1/32" Thk
	7300E	Link, assembly, complete (specify link size)

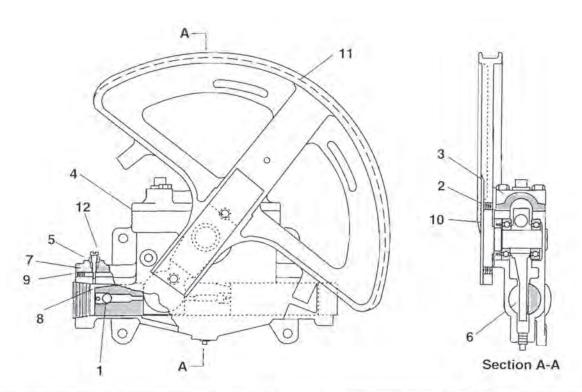
Door Operators: [7300A & 7300AA] 7300A Door Operator Engine Spare Parts



Ref. No.	Part No.	Descriptions
1.	A283FG1*	Angle, steel, 9" x 2-3/8" x 1-15/16" x 1/4"
2.	316CAW1	Bracket for micro switch
3.	320BE2	Bumper, rubber, 15/16" Dia,, 7/8"
4.	A327HM1	Cam
5.	327JD1	Cam
6.	A7300B1	Check, door, complete
3.	A7300B2	Check, door, complete without piston
7.	332BC2	Chain, complete w/link & rods
8.	332BC1	Chain, roller, #40 ASA, 1/2" pitch, 28-1/2" L
9.	346AFA1	Cover, plastic for micro switch
10.	192E16	Key, ends square, 3/16" x 3/16" x 1" L
11.	6333AM1	Motor, 220V, 1. 9 amps, 60 cycles
12.	444AT2	Plug, vent pipe, 1/2" L
13.	95BV2	Rod, shouldered, 5/16"- 18 thd., 3-3/4" L
1,00	CERTON CO.	(For 332BC2 chain)
14.	195GK2	Sprocket w/collar & key (For segment)
15.	177AJ1	Switch, micro, SPDT, with roller
16.	197B1	Unit, gear reduction
17.	133A7	Washer, spring seat, 11/32" I.D. (For bumpers

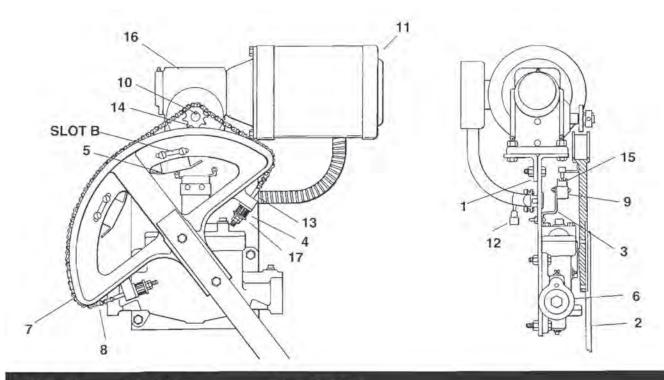
^{*}This item may require special order

Door Operators: [7300A & 7300AA] Door Check Spare Parts



Ref. No.	Part No.	Descriptions
1.	295B1	Ball, steel, 3/8" Dia. (For piston)
2.	207Z51	Bearing, ball, 2.00" O.D., 1.00" I.D. (For segment)
3.	346AEX1	Cover, case
4.	376BC3	Gasket, vellumoid, 7-1/8" L, 2-3/8" W, .022" Thk (For cover)
5.	381C1	Gland, brass, 3/8"- 32N- 3 I.D., 9/16"- 24N-3 O.D. (For valve)
6.	288LK1	Lever, 5-11/16" L (Keyed to segment)
7.	182C1	Packing, asbestos, 9/32" I.D., 1/2" O.D., 5/32" Thk (For valve)
8.	442AL2	Piston, 1-1/2" Dia., 6-1/2" L
9.	97G1	Rod, brass, 1/4"-28-NF-3, 5/8" L
10.	33D22	Seal, oil, 1-1/4" I.D., 2.00" O.D., 3/8" Thk
11.	165D1	Segment
12.	271D1	Valve, brass, shouldered, 1-1/4" L
	VP-792553	Heater, 25W, 110V
	VP-896660	Thermostat

Door Operators: [7300A & 7300AA] 7300AA Door Operator Engine Spare Parts



Ref. No.	Part No.	Descriptions
1.	A283FG1*	Angle, steel, 9" x 2-3/8" x 1-15/16" x 1/4"
2.	288KL10	Arm, operator, 36" L
3.	316CAW1	Bracket for micro switch
4.	320BE2	Bumper, rubber, 15/16" Dia., 7/8" L
5.	327JM1	Cam (for micro switch)
6.	A7300B1	Check, door, complete
7.	332BC2	Chain, complete with link & rods
8.	332BC1	Chain, roller, #40 ASA, 1/2" pitch, 5/16" Dia., 28-1/2" L
9.	346AFA1	Cover, plastic for micro switch
10.	192E16	Key, ends square, 3/16" x 3/16" x 1" L
	7300E8	Link, assembly, complete
11.	6333BM1	Motor, 220V, 1. 9 amps, 60 cycles, with thermal protector
12.	444AT2	Plug, vent pipe, 1/2" L
13.	95BV2	Rod, shouldered, 5/16"- 18 Thd., 3-3/4" L (for 332BC2 chain)
14.	195GK2	Sprocket, teeth (for segment)
15.	177AJ1	Switch, micro, SPDT, with roller
16.	197B1	Unit, gear reduction
17.	133A7	Washer, spring seat, 11/32" I.D. (for bumpers)

^{*} This item may require special order

Door Operators: Type 7300 to AT400 Upgrade Flyer

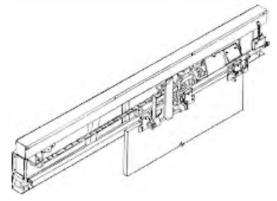
HIGHEST QUALITY PRODUCTS • UNBEATABLE CUSTOMER SERVICE



If You Have This:







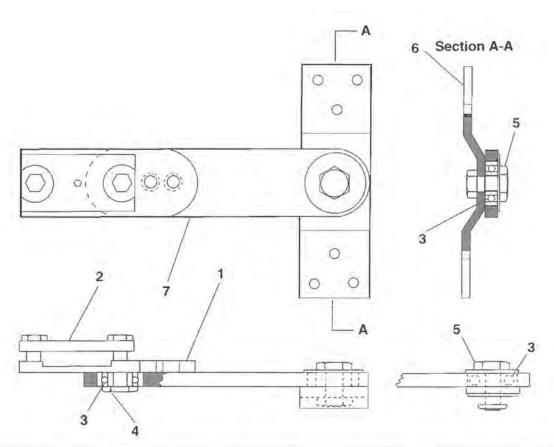
Otis Screw (7777) Operator

Otis 7300 AC Operator



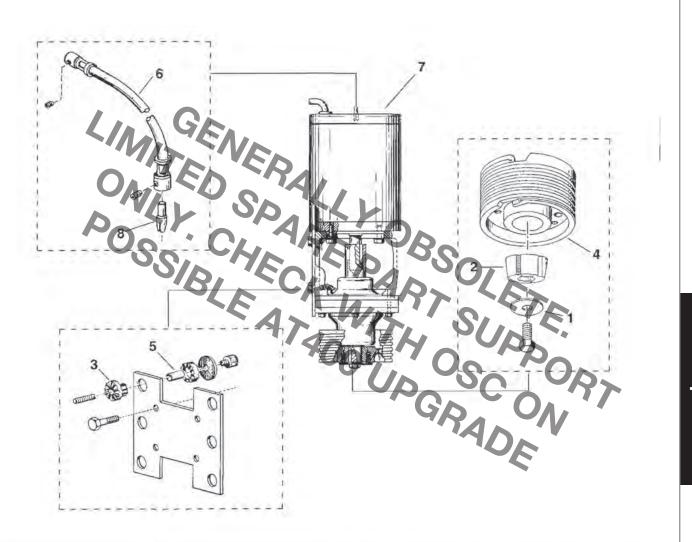
- Pre-Engineered
- Direct Replacement Upgrade/Retrofit
- Package Includes:
 - √ Closed-Loop Door Operator
 - √ Car Door Vane
 - √ Control Components
 - √ Transformer/Power Supply
 - ✓ Junction Box

Door Operators: [7300A & 7300AA] Door Link Assembly Spare Parts



Re	ef. No.	Part No.	Descriptions	
	1.	299XT1	Bar, 1-3/4" W, 4-7/16" L, 5/16" Thk	
	2.	299XW1	Bar, 1-1/2" W, 2-7/8" L, 1/4" Thk	
	3.	207R2	Bearing, ball, .393" I.D., 1.811" O.D.	
	4.	59A5	Bolt, shouldered, 3/8"-24 x 1-13/32" L	
	5.	59A1	Bolt, shouldered, 3/8"-24 x 1-1/16" L	
		65EA2	Bolt, 3/8" -24 x 1"	
	6.	316CBC1	Bracket, 1-3/4" W, 6" L, 3/16" Thk	
	7.	430TA3	Link, 1-3/4" W, 7-1/8" L, 5/16" Thk	
		430TA9	Link, 1-3/4" W, 8-3/4" L, 5/16" Thk	
		430TA12	Link, 1-3/4" W, 9-3/4" L, 5/16" Thk	
		430TA33	Link, 1-3/4" W, 6-1/4" L, 5/16" Thk	
		430TA35	Link, 1-3/4" W, 13" L, 5/16" Thk	
		430TA47	Link, 1-3/4" W, 6-3/4" L, 5/16" Thk	
			and the second of the second o	

Door Operators: [7660A] Type 7660A & A7660A Door Operator Spare Parts

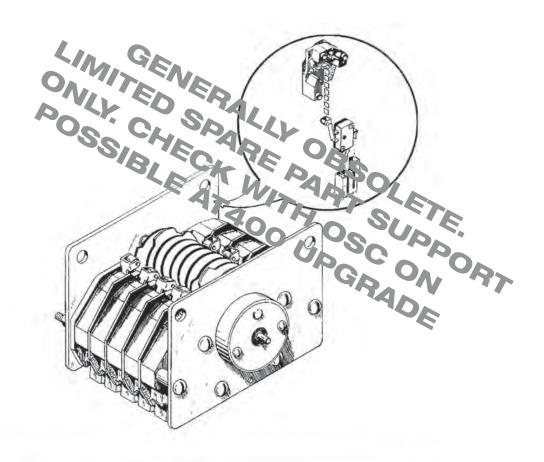


Ref. No.	Part No.	Descriptions
1.	127VB143	Washer
2.	321EE1	Bushing, taperlock
3,	334AM1	Bushing, sound isolation
4.	360R1	Drum
5.	462HA102	Spacer
6.	494JL1	Flexible shaft
7.	6333BY1	Motor, 90VDC, 2 amps, 1/6 HP
8,	81BD10	Pín

Door Operators: [7660A] Type 6840CA and A6840CA Panel Spare Parts

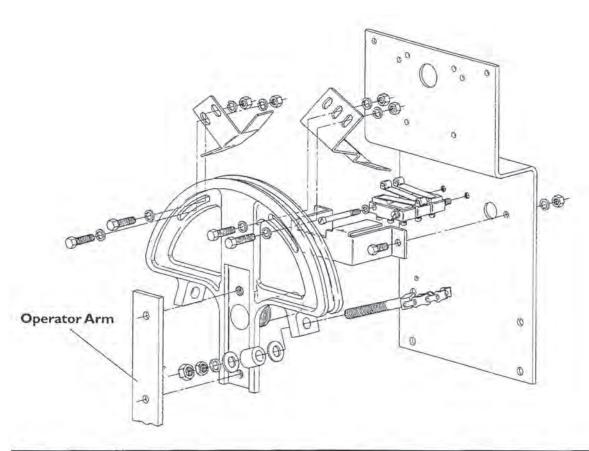
CAPACITOR	Part No.	Descriptions	
	P226BF11 P226BL1 P226BY4	Capacitor, 60 MFD Capacitor, 0.1 MFD Capacitor, 20 MFD	
DIODE	AAA612AF2	Diode	
RECTIFIER	230BS3 P607H1	Rectifier, bridge Rectifier, SCR, 25A, 4V	
	P613AB1 P613AT1	Relay, 3-Pole, SPDT, 110VDC Relay, 1-Pole, SPDT, 110V	
RESISTOR	232T2 AAA232FP33 AAA232FP13	Resistor, 2W, 1000 Ohm Resistor, 2W, 220 Ohm Resistor (Dim)	
SOCKET	P467AE2 V618J1	Socket, relay Socket, relay	

Door Operators: [7660A] Type 6934Y Cam Pack Spare Parts



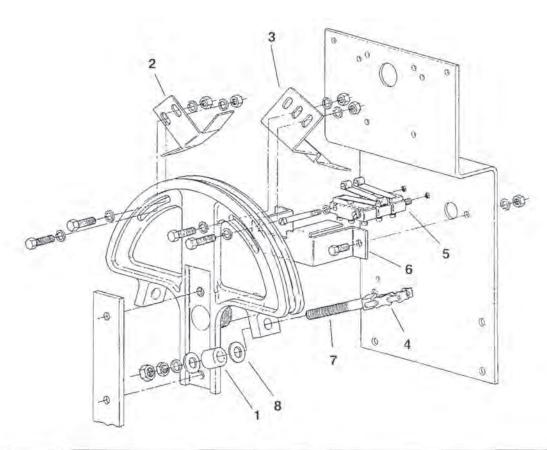
Part No.	Descriptions	
P177AX2	Microswitch, SPDT	

Door Operators: [7770A] Door Operator Arms



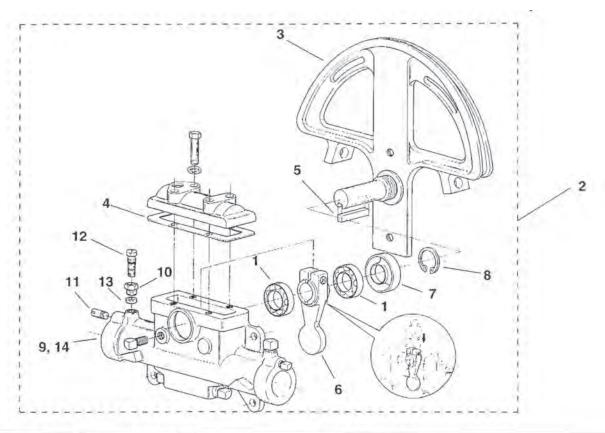
Part No.	Door Type	Opening Width	Arm Length	
288KL10	Single slide	32", 36"	36"	
288KL11	Single slide/ 2-Speed	42"	44"	
288KL12	Center opening	42", 48"	24-7/8"	
288KL13	Center opening	36"	21-1/2"	
288PN6	2-Speed	48"	46"	

Door Operators: [7770A] Door Operator Spare Parts



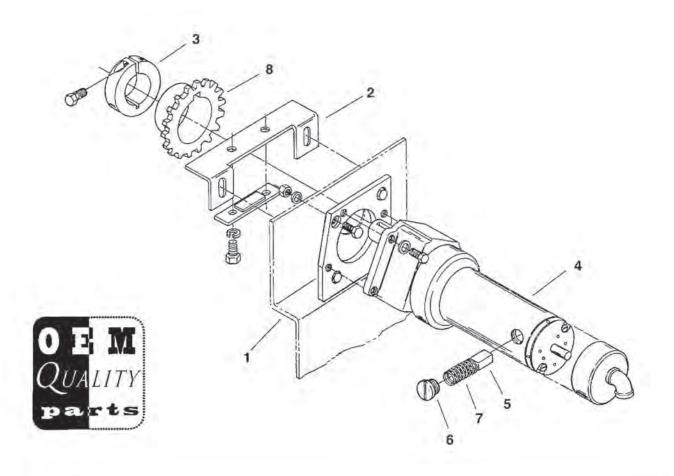
Ref. No.	Part No.	Descriptions	
1.	320BE2	Bumper	
2.	327KM1	Cam	
3.	327KN1	Cam	
4.	332BC1	Chain, #40, 33" L	
5.	177AJ1	Micro switch	
6.	346AFA1	Micro switch cover	
7.	95BV2	Rod	
8.	133A7	Washer	

Door Operators: [7770A] Door Check Spare Parts



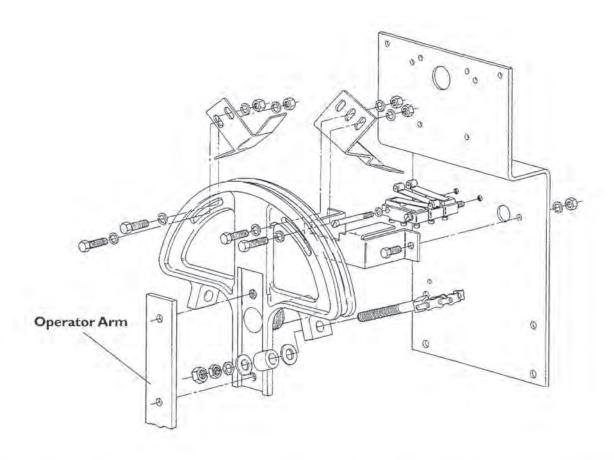
			i
Ref. No.	Part No.	Descriptions	
1.	207Z51	Bearing, ball, 2.00" O.D., 1.00" I.D.	
	A7300B1	Door check assembly	
2. 3.	165D1	Drive segment	
4.	376BC3	Gasket	
5.	192D9	Key	
6.	288LK1	Lever	
7.	33D22	Seal, oil, solid, 2,00" O.D., 1.25" I.D.	
8.	172CY15	Retaining ring	
9.	295B1	Steel ball, 3/8"	
10.	381C1	Gland, brass	
11.	97G1	Rod, brass	
12.	1271D1	Valve, brass	
13.	182C1	Packing	
14.	442AL2	Piston	

Door Operators: [7770A] Motor & Spare Parts



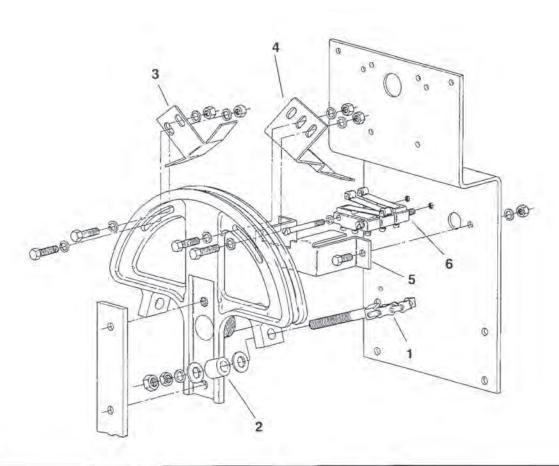
	Descriptions
283WK1	Angle bracket
P226DH1	Capacitor
340BJ1	Collar
6333CC1	Motor, 1/4 HP, 90VDC, 2.2 Amps, 1725 RPM
240BA1	Brush
329BY1	Motor brush cap
178AY1	Motor brush holder
195GK4	Sprocket
	P226DH1 340BJ1 6333CC1 240BA1 329BY1 178AY1

Door Operators: [7770R] Door Operator Arms



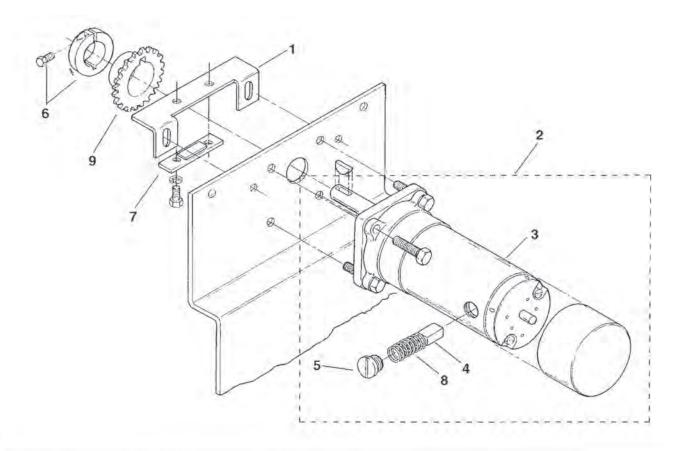
Part No.	Door Type	Opening Width	Arm Length
288KL10	Single slide	32", 36"	36"
288KL11	Single slide/ 2-Speed	42"	44"
288KL12	Center opening	42", 48"	24-7/8"
288KL13	Center opening	36"	21-1/2"
288PN6	2-Speed	48"	46"

Door Operators: [7770R] Door Operator Spare Parts



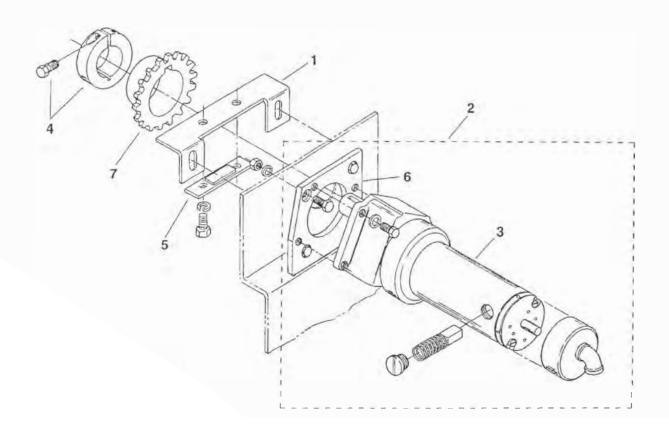
Ref. No.	Part No.	Descriptions
1.	332BC1	Assembly, chain without rods
	332BC2	Assembly, chain with two rods
2.	320BE2	Bumper, 5/16" Dia., 7/8" L
3.	327KP1	Cam, operator
4.	327KR1	Cam, operator
5.	346AFA1	Cover, switch
6.	177AJ1	Switch, micro, SPDT

Door Operators: [7770R] GE Motor Assembly



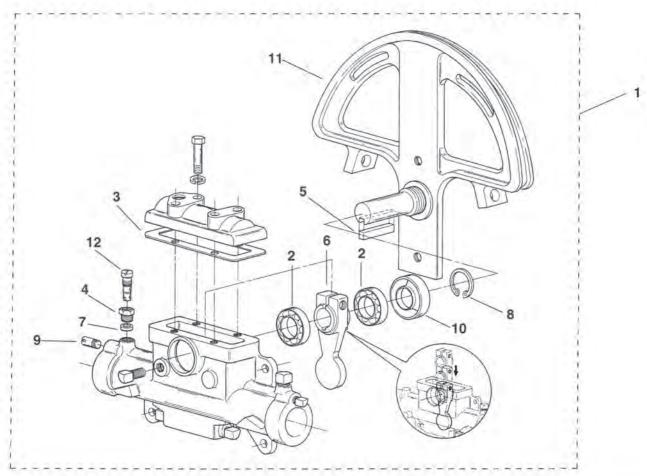
Ref. No.	Part No.	Descriptions
1.	283YT1	Angle
2.	HT201341-1	Assembly, motor-encoder, C/O doors
	HT201342-1	Assembly, motor-encoder, SS/2-Speed doors
3.	HT201337-1	Assembly, motor, 1/4HP, 90VDC, 1725RPM, for C/O doors
	HT201338-1	Assembly, motor, 1/6HP, 90VDC, 880RPM,
		for SS/2-speed doors
4.	240BA1	Brush, motor
5.	329BY1	Cap, brush
6.	340BJ1	Collar with screw
7.	385NF1	Guide
8.	178AY1	Holder, brush
9.	195GK4	Sprocket

Door Operators: [7770R] IGW Motor Assembly



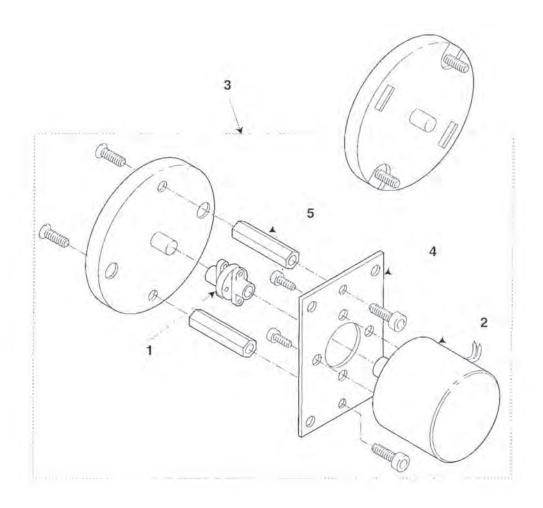
Ref. No.	Part No.	Descriptions
1.	283YT1	Angle
2.	HT201341-1	Assembly, motor-encoder, C/O doors
	HT201342-1	Assembly, motor-encoder, SS/2-Speed doors
3.	HT201337-1	Assembly, motor, 1/4HP, 90VDC, 1725RPM, for C/O doors
	HT201338-1	Assembly, motor, 1/6HP, 90VDC, 880RPM, for SS/2-speed doors
4.	340BJ1	Collar with screw
5.	385NF1	Guide
6.	6800JC1	Plate, motor adaptor
7.	195GK4	Sprocket

Door Operators: [7770R] Door Check Spare Parts



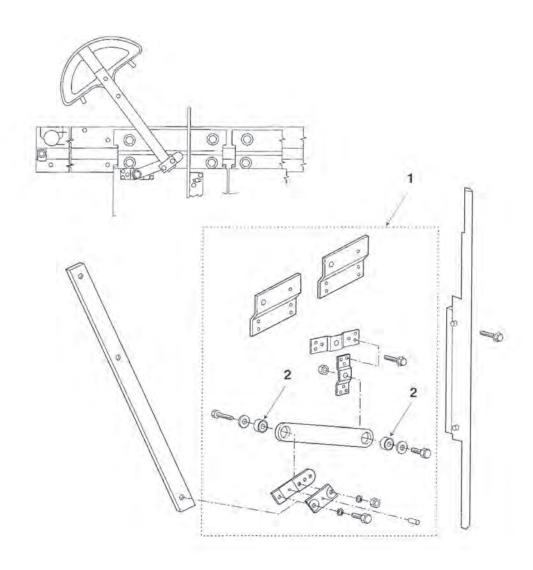
Ref. No.	Part No.	Descriptions	
1.	A7300B2	Assembly, door check without piston	
2.	207Z51	Bearing, ball, 2.00" O.D., 1.00" I.D.	
3.	376BC3	Gasket	
4.	381C1	Gland, brass	
5.	192D9	Key	
6.	288LK1	Lever	
7.	182C1	Packing	
8.	172CY15	Ring, retaining	
9.	97G1	Rod, brass	
10.	33D22	Seal, oil	
11.	165D1	Segment, drive	
12	271D1	Valve, brass	

Door Operators: [7770R] Retrofit Encoder Assembly



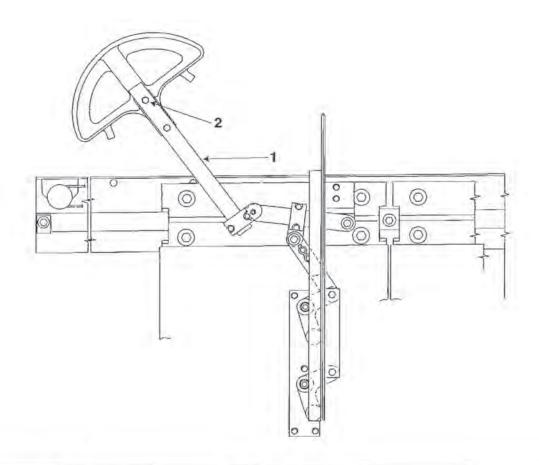
Ref. No.	Part No.	Descriptions	
1	VP-755800	Coupling	
2.	VP-766000	Encoder, incremental shaft	
3.	VP-798605	Kit, encoder retrofit	
4.	386BRL1-MOD	Plate, mounting	
5.	VP-877577	Standoff, 1-3/8" L	

Door Operators: [7770R] Link Assembly Spare Parts for Stationary Vanes



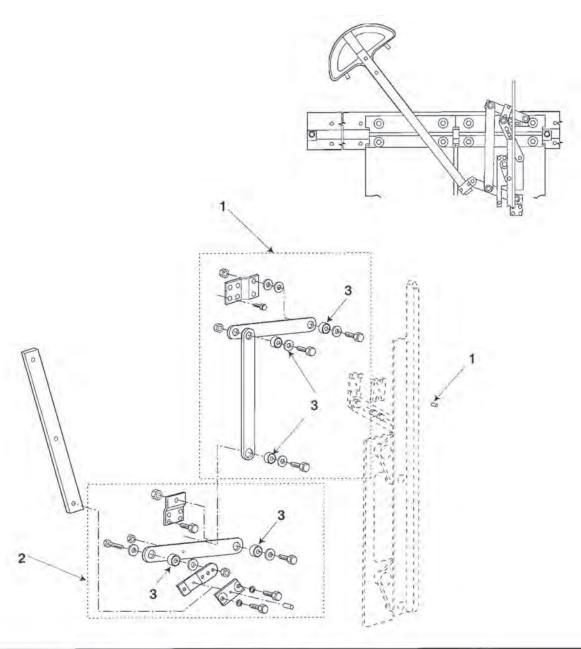
Ref. No.	Part No.	Descriptions
1.	2700CAC13	Kit, link assembly, pin & hardware for 42"/48" C/O doors
	2700CAC14	Kit, link assembly, pin & hardware for 36" C/O doors
	2700CAC18	Kit, link assembly, pin & hardware for 32" SS doors
	2700CC16	Kit, link assembly, pin & hardware for 48" 2-speed doors
2.	207R2	Bearing, ball with washers

Door Operators: [7770R] Link Assembly Spare Parts for C/O Doors with Movable Vanes



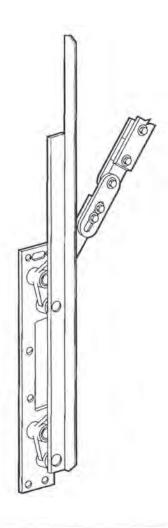
Ref. No.	Part No.	Descriptions	
1.	2700CAC19	Kit, link assembly, pin & hardware for 42"/48" doors	
2.	207R2	Bearing, ball with washers, 1.811" O.D., .393" I.D.	

Door Operators: [7770R] Link Assembly Spare Parts for 2-Speed Doors with Movable Vanes



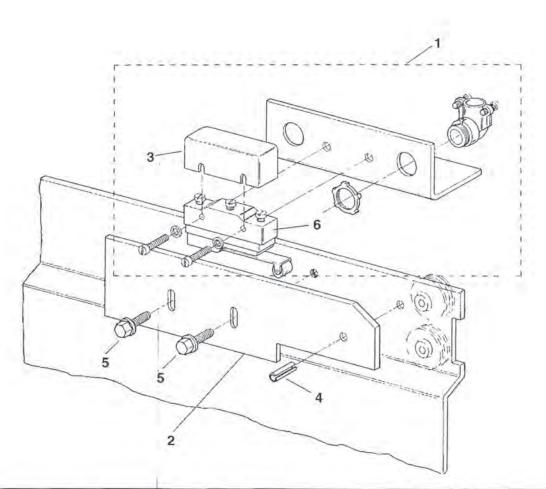
Ref. No.	Part No.	Descriptions	
1.	2700CAC21	Kit, idler link assembly & hardware, RH, 42" opening	
	2700CAC22	Kit, idler link assembly & hardware, LH, 42" opening	
	2700CAC23	Kit, idler link assembly & hardware, RH, 48" opening	
	2700CAC24	Kit, idler link assembly & hardware, LH, 48" opening	
2.	2700CAC25	Kit, link assembly, pin & hardware, LH, 48" opening	
3.	207R2	Bearing, ball with washers, 1.811" O.D., .393" I.D.	

Door Operators: [7770R] Movable Vanes Assemblies



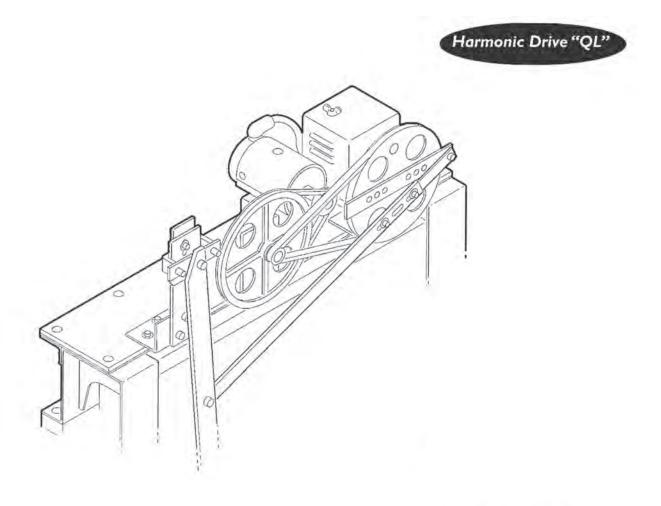
Part No.	Door Opening	Door Hand	Opening Height	Cab Height	Door Type
C6970F1	36"	RH	84"	96"	C/O
	36"	BH	96"	155"	C/O
	42"	BH	84"	115"	2-Speed
C6970F2	42"	LH	84"	115"	2-Speed
C6970F3	36"	RH	84"	115"	C/O
C6970F5	42"	RH	84"/96"	96"/115"	C/O
C6970F9	42"/48"	BH	84"	115"	C/O
C6970F11	48"	RH	84"	115"	2-Speed
C6970F12	48"	LH	84"	115"	2-Speed
C6970F14	42"/48"	LH	84"/96"	96"/115"	2-Speed

Door Operators: [7770R] Detector Desensitizing Switch



Ref. No.	Part No.	Descriptions	
1.	7048BV1	Assembly, switch	
2.	327LR1	Cam	
3.	346AFA1	Cover, switch	
4.	81AX1	Pin, roll	
5.	109P2	Screw, thread rolling	
6.	177AJ1	Switch, micro, SPDT	

Door Operators: [QL] Operator Engine Assembly



Part No.	Descriptions
A7782AA1	Assembly, operator engine, for 36"/42" SS 8 48" 2S doors, RH
A7782AA2	Assembly, operator engine, for 36"/42" SS & 48" 2S doors, 2H
A7782AA3	Assembly, operator engine, for 42" C/O doors
	OF TAOO

Door Operators: QL Operator Rebuild Kit Flyers

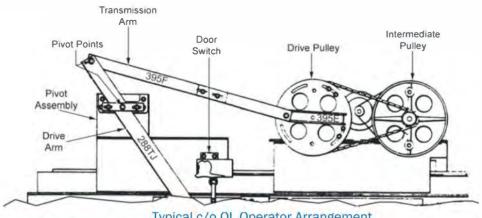
HIGHEST QUALITY PRODUCTS • UNBEATABLE CUSTOMER SERVICE

Rebuild It, Eliminate Callbacks!



QL Operator Rebuild Kit p/n A7782AA500

(Kit contents satisfies rebuilds of earliest aluminum baseplate QL operators. Should your QL have the later black-painted formed steel baseplate, advise your OSC representative.)



Typical c/o QL Operator Arrangement

Door Operators

Door Operators

Door Operators: QL Operator Rebuild Kit Flyers

HIGHEST QUALITY PRODUCTS • UNBEATABLE CUSTOMER SERVICE

For a proper comprehensive rebuild, choose <u>one</u> appropriate door link, <u>one</u> type 395E arm, and <u>one</u> main drive arm from the tables below.



1C-7770AF1 (w/ 8 in. link (AF2 is the same except 12 in.)



1C-7770AF3 is 9-1/2 in. 1C-7770AF4 is 13-1/2 in. (end-to-end dimension)



395E1, E2, and E3 shown (395E4 is the same as E3 except Has 8 tapped holes)



7770AF3 or AF4 (shown bottom) (both 13-3/4 in. overall link)

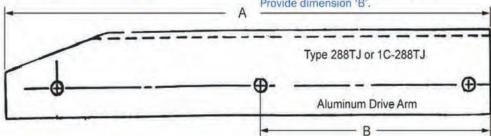


7770P7

Drive Arm Part Numbers	Length 'A' (in.)	Dimension 'B' (in.)
288TJ1	41-11/16	
288TJ2	47-11/16	
288TJ3	53-11/16	
288TJ4*	33-5/16	10-5/16
288TJ5	41-11/16	
288TJ6*	33-5/16	
288TJ7*	51-11/16	
288TJ8	30-3/16	
288TJ9	34-5/16	
288TJ10*	59-11/16	38-1/8
288TJ11	39-3/4	
288TJ12*	59-11/16	39-1/8
288TJ13	55-3/16	

Drive Arm Part Numbers	Length 'A' (in.)	Dimension 'B' (in.)
1C-288TJ1	48-11/16	
1C-288TJ2	52-3/16	
1C-288TJ3*	51-11/16	30-3/16
1C-288TJ4	52-11/16	
1C-288TJ5	49-7/16	
1C-288TJ6	47-3/16	
1C-288TJ7	38-7/8	
1C-288TJ8	37-1/4	
1C-288TJ9	34-11/16	
1C-288TJ10	45-1/16	
1C-288TJ11	50-13/16	
1C-288TJ12	49-11/16	

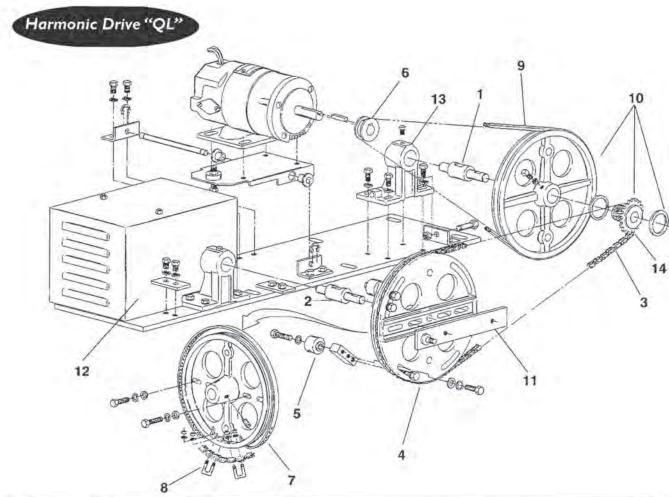
*Second p/n with same length exists. Provide dimension 'B'.



OTIS

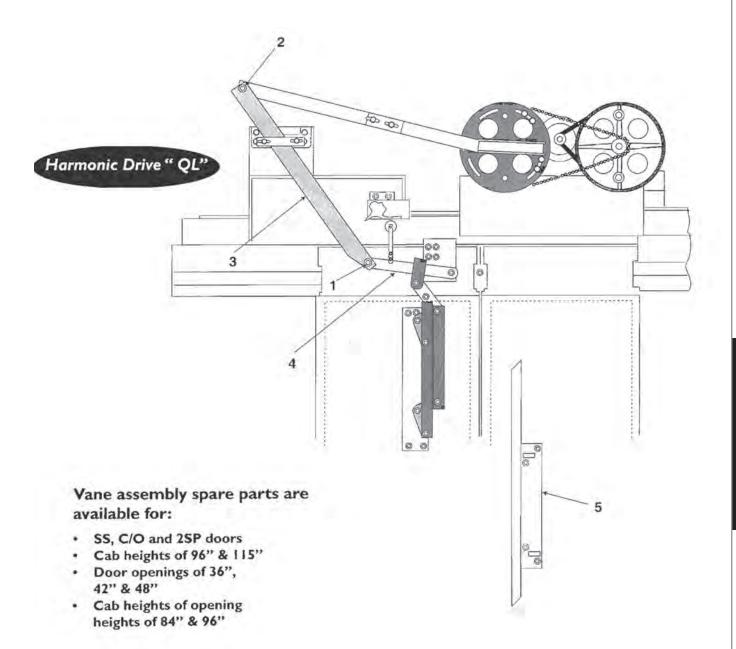
Otis Elevator Company

Door Operators: [QL] Operator Engine Spare Parts



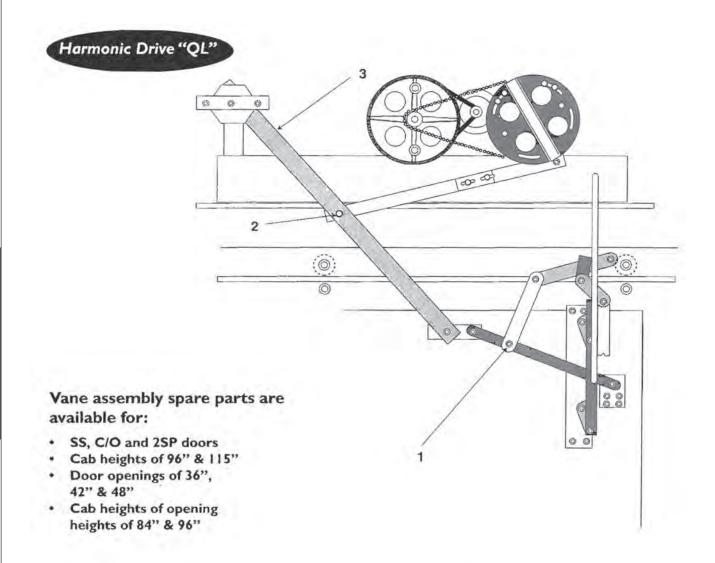
Ref. No.	Part No.	Descriptions
i.	212AF1	Bearing, integral shaft, with 3 sides machined flat
2.	212AF2	Bearing, integral shaft
3.	332AW28	Chain, 58.5" endless
4.	B198AJ1	Pulley, drive
5.	456EY1	Roller, stop
6.	265BX1	Sheave, V-belt
7.	298SF1	Strip, rubber silencer
8.	65FG1	U-bolt, chain hold down
9.	717B1	V-belt, 44.25" L
10.	198AH1	Assembly, intermediate pulley w/sprocket & washer
11.	395E3	Arm, drive pulley lever
12.	471GB1	Bearing stand (for drive pulley)
13.	471FY1	Bearing stand (for intermediate pulley)
14.	195GS1	Sprocket

Door Operators: [QL] Linkage - Center Opening Doors



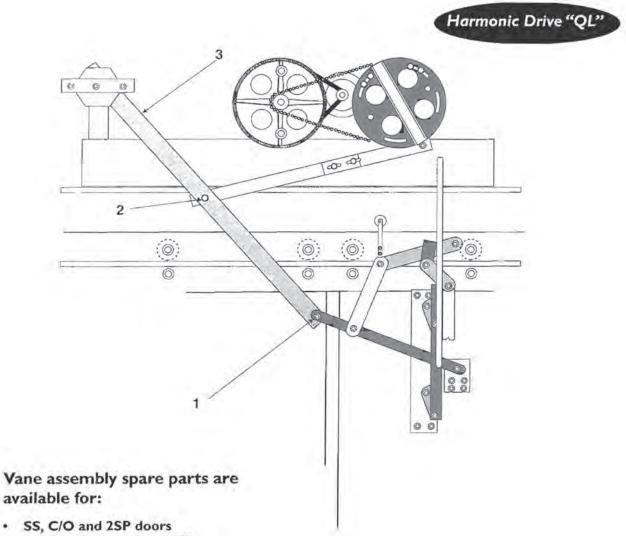
Ref. No.	Part No.	Descriptions
1.	207R2	Bearing, 1.811" O.D., .393" I.D.
2.	209AN3	Bearing, .875" O.D., .375" I.D.
3.	288TJ4	Drive arm
4.	2700CCF4	Kit, link assembly, 42" opening
5.	A6940AT1	Vane assembly, stationary

Door Operators: [QL] Linkage - Single Slide Doors



Ref. No.	Part No.	Descriptions
1.	207R2	Bearing, 1.811" O.D., .393" I.D.
2.	209AN3	Bearing, .875" O.D., .375" I.D.
3.	288TP1	Drive arm, 36" opening
	288TP2	Drive arm, 42" opening
	288TP2	

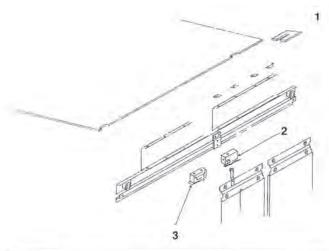
Door Operators: [QL] Linkage - Two Speed Doors



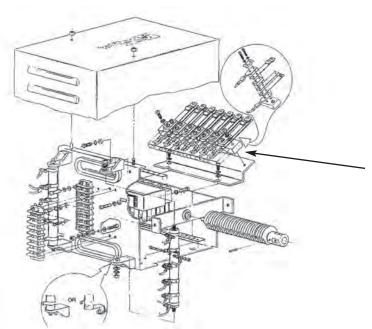
- Cab heights of 96" & 115"
- Door openings of 36", 42" & 48"
- Cab heights of opening heights of 84" & 96"

Ref. No.	Part No.	Descriptions
1.	207R2	Bearing, 1.811" O.D., .393" I.D.
2.	209AN3	Bearing, .875" O.D., .375" I.D.
3.	288TJ4	Drive arm

Door Operators: [QL] Door Operator Spare Parts & Cam Pack



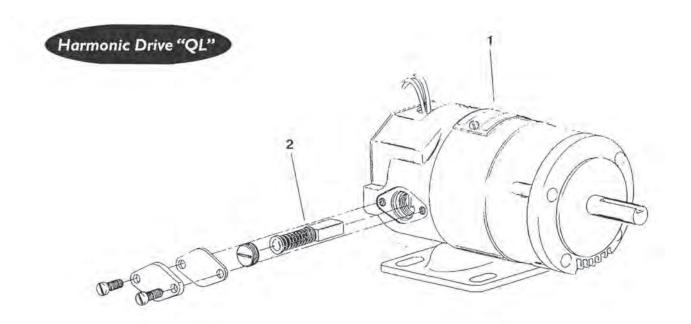
Ref. No.	Part No.	Descriptions	ř.
1.	256AD1	Cork shim	
2.	6098E6	Gate switch, RH, C/O doors	
3.	6098MV1	Gate switch, RH, SS, 2S doors	
	6098MV2	Gate switch, LH, SS, 2S doors	



QTY (2) SEVEN CONTACT SWITCH SET WERE USED HERE. SPECIFIY (2) 177DB2

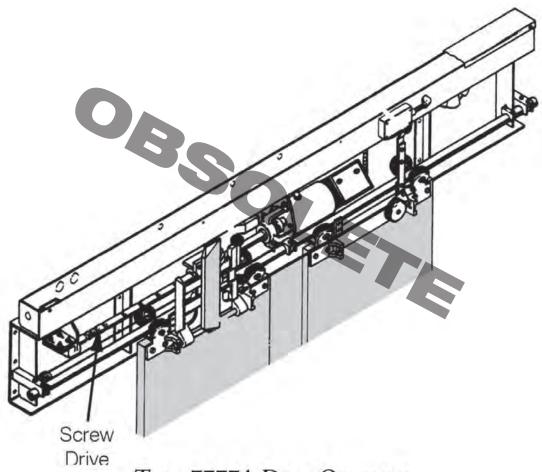
Part No.	Descriptions
AAA7782AY1	Cam pack assembly w/resistors & terminal blocks, RH
AAA7782AY2	Cam pack assembly w/resistors & terminal blocks, LH
AAA7782AY400	Cam & shaft subassembly (w/14 cams black & white)
314AD1	Cam Adjusting Wrench

Door Operators: [QL] Door Operator Motor



Ref. No.	Part No.	Descriptions
1.	6333DP1	Motor, 120VDC, 1/6 HP, 1140 RPM
2.	240BA3	Brush (for G.E. motor)
	AAA240AK1	Brush (for L/S motor)
	by a permanent ma Only armature wire forward. Motor Fie justment of motor f	333DP1 is now obsolete and replaced agnet version motor p/n: AAA6333EZ1. eterminals (A1 & A2) are used going eld wires are no longer present. No adicields is necessary or possible with re-Leave motor field wire terminals blank.

Door Operators



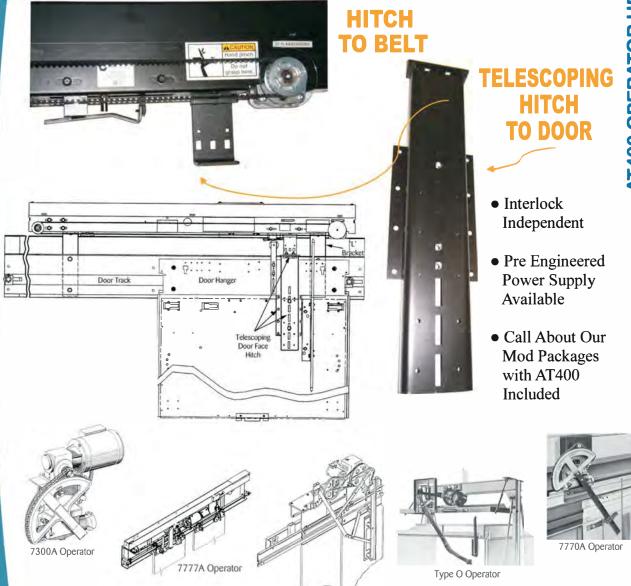
Type 7777A Door Operator

Door Operators

AT400 OPERATOR UPGRADES

HIGHEST QUALITY PRODUCTS • UNBEATABLE CUSTOMER SERVICE

ADAPTING THE AT400 OPERATOR COULD NOT BE MUCH SIMPLER



Replace each of these operators with the AT400!

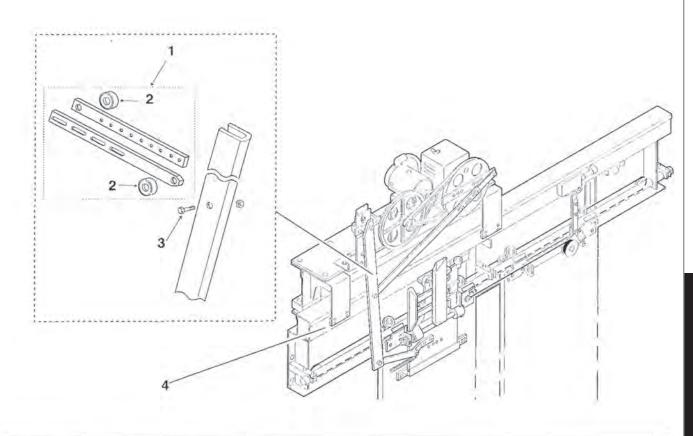
QL Operator

Door Operators: AT400 Operator Upgrades Flyer

HIGHEST QUALITY PRODUCTS . UNBEATABLE CUSTOMER SERVICE

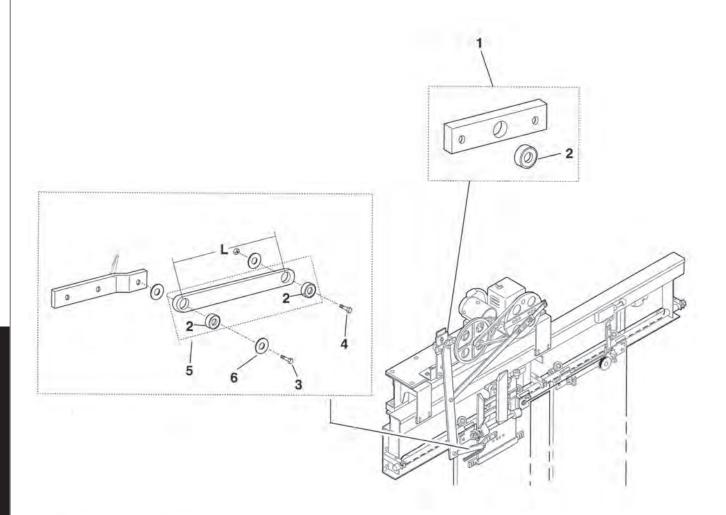
Cab Front or Header Track Operator Mount AT400 OPERATOR UPGRADES 0 0 Cab Top Door Hanger Door Track Mount 0 'L' Bracket Telescoping Door Face Hitch Door Hanger Hanger Mounted Telescoping Top (Most Basic) Hitch 'L' Bracket Cab Front or Header Door Face >Hitch Track Operator Mount 7770A Operator AT400! Replace Type O Operator QL Operator the with of these operators

Door Operators: [7777A to QL] Link Assembly Spare Parts



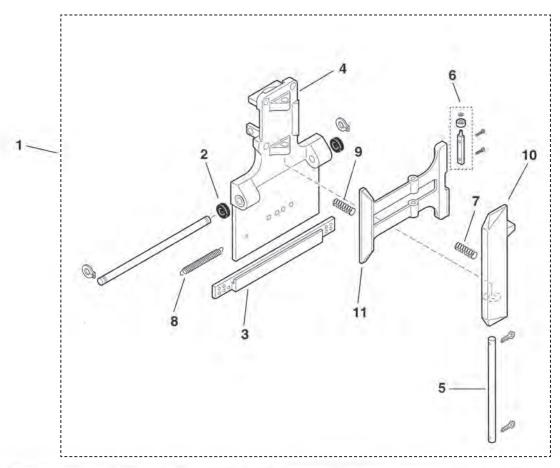
Ref. No.	Part No.	Descriptions	
1.	395F1	Assembly, transmission arm	
2.	209AN3	Bearing, .875" O.D., .375" I.D.	
3.	58AP1	Bolt, shoulder, 1.25" L, 3/8-16 threads	
4.	1C-288TJ7	Drive arm, 38.87" L, for 42' SS	
	1C-288TJ8	Drive arm, 37.24" L, for 36" SS	
	1C-288TJ10	Drive arm, 45.06" L, for 42" C/O	
	1C-288TJ11	Drive arm, 50.81" L, for 42" SS	
	1C-288TJ12	Drive arm, 49.67" L, for 36" SS	
	1C-288TJ9	Drive arm, 34.68" L, for 42" C/O	

Door Operators: [7777A to QL] Drive Arm Spare Parts



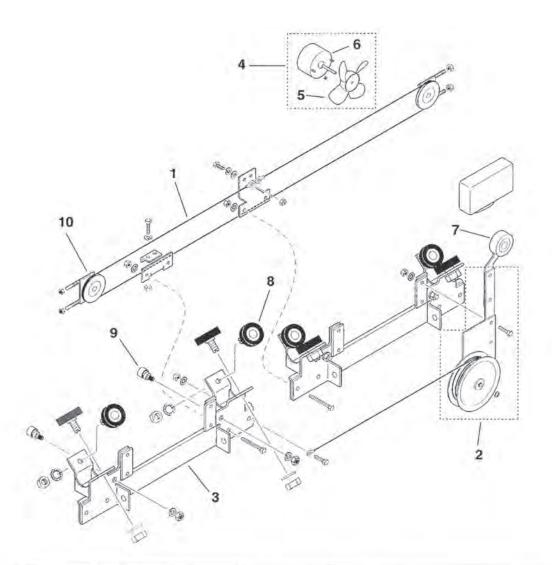
Ref. No.	Part No.	Descriptions
1.	299AKG2	Bar assembly
2.	209AN3	Bearing, .875" O.D., .375" I.D.
3.	1F-65EA1	Bolt, special, 3/8" x 1" L
4.	58AP1	Bolt, shoulder, 3/8" x 1.25" L
5.	1C-7770AF4	Link assembly, 12" L, for 36"/42" SS
	1C-7770CF3	Link assembly, 8" L, for 42" C/O
	1C-7770AF5	Link assembly, 8.5" L, for 42" C/O
	1C-7770AF6	Link assembly, 8.18" L, for 42" C/O
6.	127VB52	Washer, special, 1.25" O.D.

Door Operators: [7777A to QL] Clutch Vane Assembly Spare Parts



Ref. No.	Part No.	Descriptions
1.	A7777B1	Clutch vane, complete
2.	BUSH-B-81420	Bushing, ball
3.	2F-385NN1	Guide
4.	2F-A396JR1	Housing, vane
5.	82A82	Pin
6.	456FD1	Shaft/roller assembly
7.	SPG-LC-051G-10	Spring, compression
8.	CAA91A1	Spring, extension, 3" L, free length
9.	CAA90A1	Spring, compression, 2" L, free length
10.	A327KV1	Vane
11.	A327KW1	Vane

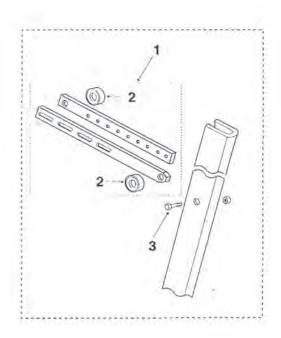
Door Operators: [7777A to QL] Door Hanger Spare Parts



Ref. No.	Part No.	Descriptions
1.	174AS10	Aircord, 1/8" W x 14" L
2.	6940BC1	Closer assembly w/bracket
3.	A316DNS1	Door hanger w/o rollers
4.	6091AB1	Fan assembly
5.	301G1	Fan blade
6.	6333DE1	Fan motor
7.	7782J2	Roller & arm
8.	A456FC1	Roller assembly, 2" O.D.
9.	456FB1	Roller, eccentric, 1" O.D.
10.	316DND1	Aircord sheave bracket assembly w/o aircord

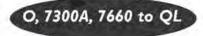
Door Operators: [QL Upgrades (from O, 7300, 7660)] Door Link Assembly Spare Parts

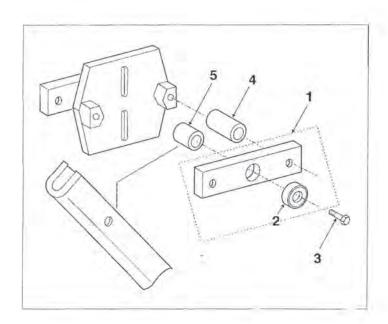




Ref. No.	Part No.	Descriptions	
1.	395F1	Assembly, transmission parts	
2.	209AN3	Bearing, double shielded, .875" O.D., .375" I.D.	
3.	58AP1	Bolt, shoulder, 1.25" L, 3/8-16 threads	

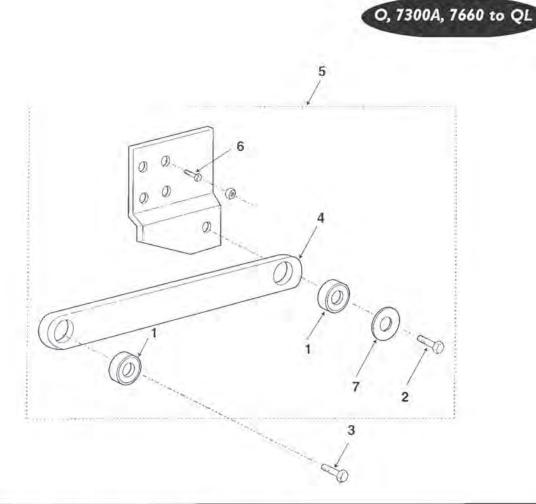
Door Operators: [QL Upgrades (from O, 7300, 7660)] Drive Arm Spare Parts





Ref. No.	Part No.	Descriptions
1.	299AKG2	Bar assembly (for C/O, 2S, SS doors)
2.	209AN3	Bearing, double shielded, .875" O.D., .375" I.D.
3.	58AP1	Bolt, shoulder, 1.25" L, 3/8-16 threads (for SS, 2S doors
	58AP2	Bolt, shoulder, 2" L, 3/8-16 threads (for C/O doors)
4.	462HA113	Spacer, 1" O.D.
5.	462HA114	Spacer, .5" O.D.

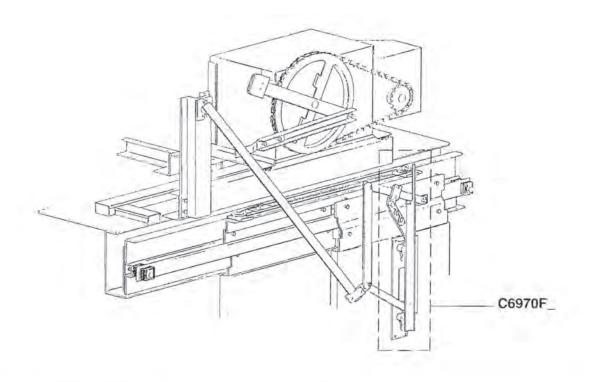
Door Operators: [QL Upgrades (from O, 7300, 7660)] Door Link Assembly Spare Parts



Ref. No	Part No.	Descriptions
1.	207R2	Bearing, .393" I.D., 1.811" O.D.
2.	59A1	Bolt, shoulder, 3/4" x .875" L
3.	59A2	Bolt, shoulder, 3/4" x 1-1/16" L
4.	1C-430EJ1	Link (for C/O doors)
	1C-430EJ2	Link (for SS, 2S doors)
5.	1C-7770AF1	Link assembly (for C/O doors) w/o item 6
	1C-7770AF2	Link assembly (for SS, 2S doors) w/o item 6
6.	109P2	Screw, thread forming
7.	127VB52	Washer, special, 1.25" O.D.

Door Operators: OVL Operator

SHOWN IS THE NAO VERSION OVL SET UP TO WORK WITH 6940 DOOR LOCKS. THERE WERE NUMEROUS VERSION OVL OPERATORS WITH DIFFERENT CAR CAMS/VANES. PLEASE CONTACT OSC WITH THE CAR VANE TYPE YOU HAVE, THE DOOR LOCK TYPE IN USE (OVL, 6940 or other), AND THE DETAILS ON THE DOOR OPENING SIZE, HAND & TYPE.

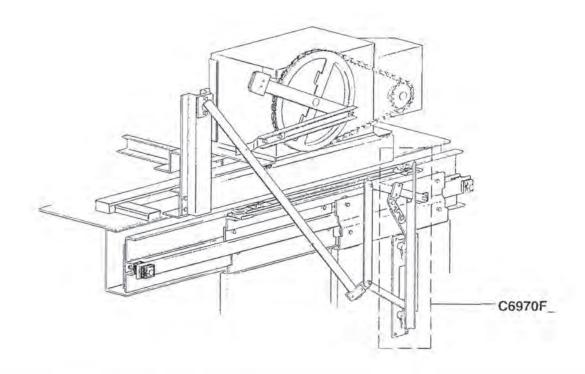


Part No.	Descriptions
YX10200K1	Assembly, arm, 36"
YX10200K2	Assembly, arm, 42" & 48"
YX10200K3	Assembly, arm, 32" & 36"
YX10200K4	Assembly, arm, 42" & 48"
10200F1	Assembly, bearing
C6970F5	Assembly, C/O 96"
2700CAC37	Assembly, cam arm (C/O doors)
2700CAC38	Assembly, cam arm (1/S, 2-speed doors)
J0288GP1	Assembly, hitch arm
207R2	Bearing for link assemblies w/ moveable & stationary vanes
207Z3	Bearing for link assemblies w/ Nippon moveable vanes
2700CAC16	Kit, link assembly plus roll pin plus hardware, 2/S, 48"
2700CAC18*	Kit, link assembly, plus roll pin plus hardware, S/S & 2/S, 32"
2700CAC19	Kit, link assembly plus roll pin plus hardware, C/O 42" & 48"

^{*}This item may require special order

Door Operators: OVL Operator

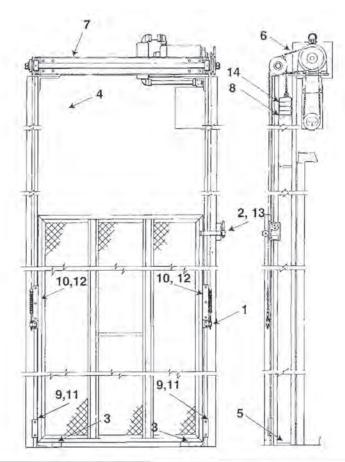
SHOWN IS THE NAO VERSION OVL SET UP TO WORK WITH 6940 DOOR LOCKS. THERE WERE NUMEROUS VERSION OVL OPERATORS WITH DIFFERENT CAR CAMS/VANES. PLEASE CONTACT OSC WITH THE CAR VANE TYPE YOU HAVE, THE DOOR LOCK TYPE IN USE (OVL, 6940 or other), AND THE DETAILS ON THE DOOR OPENING SIZE, HAND & TYPE.



Part No.	Descriptions
2700CAC21*	Kit, idler link, assembly, 2/S, 42"
2700CAC23*	Kit, idler link assembly plus pin plus hardware, 2/S, 48", RH
2700CAC13	Kit, link assembly plus hardware, roll pin plus hardware, C/O, 42" & 48"
2700CAC14	Kit, link assembly plus roll pin plus hardware, C/O, 36"
2700CAC31	Kit, swing arm #1 plus hardware, C/O, 42"
2700CAC32*	Kit, swing arm #1 plus hardware , 48"
C6970F1	Moveable vane assembly, C/O 36", 2/S 42", RH
C6970F2*	Moveable vane assembly, 2/S, 42", RH
C6970F9	Moveable vane assembly, C/O 42" & 48", RH

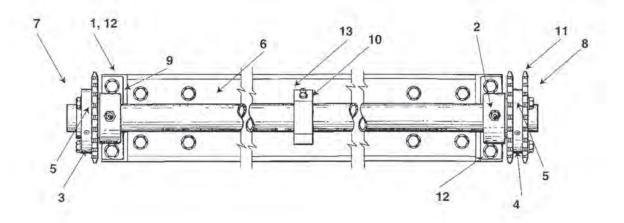
^{*}This item may require special order

Door Operators: ['F' Type (Vertical Doors)] Power Operated Vertical Lifting Car Gate Spare Parts



Ref. No.	Part No.	Descriptions
1.	149R1	Anchor, chain
2.	A287AW2	Arm, switch, 1" W, with roller
	287AP2	Arm, switch, 1-1/2" W, with roller
3.	320AM1	Bumper, 1-3/4" Dia., 1" Thk., rubber
4.	320AE2	Bumper, 1-1/2" Sq., 1/4" Thk., leather
5.	320AN1	Bumper, 2-1/4" W. 4-1/2" L. 1/2" Thk., rubber
6.	332AL1	Chain, roller, ASA #41, 1/2" pitch, 29-1/2" L
7.	6806D2	Drive, sprocket, complete (for openings over 8')
8.	385DF1	Guide, weight, 2-5/16" W, 4-9/16" L, 1/4" Thk., leather
9.	255BB66	Shim, slotted, 7/8" W, 4-1/2" L (for 237AR2)
10.	255BX1	Shim, slotted, 7/8" W, 8" L (for 237AR1)
11.	237AR2	Shoe, guide, 4-1/2" L, bronze
12.	237AR1	Shoe, guide, 8" L, bronze
13.	6098E11	Switch, gate, RH
	6098E12	Switch, gate, LH
14.	344AE1	Weight

Door Operators: ['F' Type (Vertical Doors)] Sprocket Drive Spare Parts

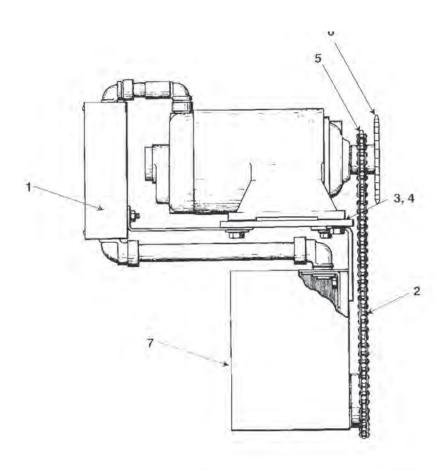


Ref. No.	Part No.	Descriptions	
1.	335E51	Bushing, oil-less (not shown)	
2.	435W1	Fitting, lubricator (for stands)	
3.	397AF2	Hub with one sprocket	
4.	397AF3	Hub with two sprockets	
5.	193A1	Key	
6.	386AGZ1	Plate, 4" W, 5" L, 5/16" Thk.	
7.	81AX19	Pin, roll (for 397AF2)(not shown)	
8.	81AX20	Pin, roll (for 397AF3)(not shown)	
9.	255EB22	Shim, 1" W, 4" L	
10.	255KB2	Shim, 1-1/8" W, 2-5/8" L, 1/32" Thk. (for 472CE2)	
	255KB1	Shim, 1-1/8" W, 2-5/8" L, 1/16" Thk. (for 472CE2)	
11.	195CM1	Sprocket, 24 teeth (for hubs)	
12.	472BX2	Stand, bearing with bushing & fitting	
13.	472CE2	Stand, bearing with fitting (for openings over 8')	

Door Operators: ['F' Type (Vertical Doors)] Vertical Lifting Car Gate Spare Parts (Manual Operation)

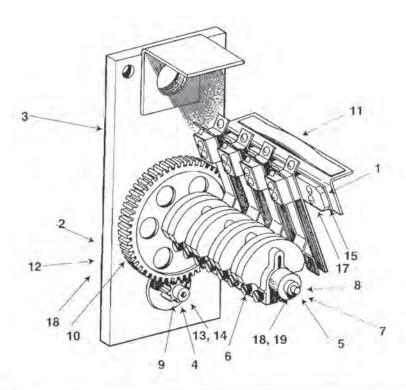
No.	Part No.	Descriptions		
1.	A287AW2	Arm, switch, 1" W, with roller		
	287AP2	Arm, switch, 1-1/2" W, with roller		
2.	297C1	Band, pull strap (for expanded metal gate)	10	1
3. 4.	56B3 320G1	Bolt, eye, 3-15/32" L Bumper, rubber, 5/8" I.D., 3" L (for wooden gate)	17 8	
5.	320AM1	Bumper, 1-3/4" Dia., 1" Thk., rubber		
6.	320AE2	Bumper, 1-1/2" Sq., 1/4" Thk., leather	1, 15	
7.	320AN1	Bumper, 2-1/4" W, 4-1/2" L, 1/2" Thk., rubber	_ 1, 15	*
8.	385DF1	Guide, weight		
9.	96Z4	Rod, hitch, 1/2" Dia., 7-3/4" L	4	6
10.	265AS2	Sheave with bushing & fitting (for brackets)	€	1
11.	255BB66	Shim, slotted, 7/8" W, 4-1/2" L (for 237AR2)		
12.	255BX1	Shim, slotted, 7/8" W, 8" L (for 237AR1)	7	
13.	237AR2	Shoe, guide, 4-1/2" L, bronze		
14.	237AR1	Shoe, guide, 8" L, bronze		1
15.	6098E11	Switch, gate, RH		4
16.	6098E12	Switch, gate, LH		
17.	344AE1	Weight		

Door Operators: ['F' Type (Vertical Doors)] 'F' Operating Engine Spare Parts



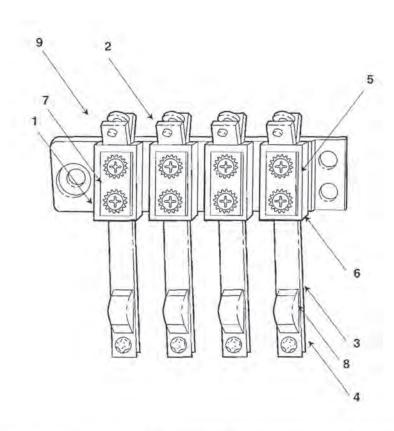
Ref. No.	Part No.	Descriptions
1.	303B1	Board, terminal (for box)
2.	332AL2	Chain, roller, ASA #41, 1/2" pitch, 38-1/2" L
3.	255AB29	Shim, slotted, 1-3/8" W, 2" L, 16 ga Thk
4.	255AB30	Shim, slotted, 1-3/8" W, 2" L, 28 ga Thk
5.	195AV3	Sprocket, 16 teeth with set screws (for motor)
6,	195CN3	Sprocket, 32 teeth with set screws (for motor)
7.	6706A1	Switch, stopping, complete
	186207	Brush (for motor)

Door Operators: ['F' Type (Vertical Doors)] A6706A Stopping Switch Spare Parts



Part No.	Descriptions	Ref. No.	Part No.	Descriptions
275AM1	Barrier, insulating, phenolic	11.	102BS1	Plate, data
209E4*	Bearing, roller	12.	386AAM2*	Plate (for shaft)
316AHM2	Bracket, with shaft,	13.	494BZ2	Shaft, with gear
	bushings, and fittings	14.	B494BZ2	Shaft, with plate & fitting
335D1	Bushing, oilite 5/16" I.D.,	15.	255EB27	Shim, 7/16" wide, 15/16" lor
	7/16" long	16.	195AS1	Sprocket, 24 teeth
321AA1	Bushing, oilite 3/8" I.D.,	17.	6251E1	Switch, mechanical complet
	1/2" long	18.	135AF2	Tube, with gear and
AAA327MV4	Cam assembly			bushings
340AD3	Collar	19.	135AF1	Tube, 5/8" O.D., 4-3/16" long
435AJ1	Fitting, drive			steel
201BV2				
201AS2	Gear, spur, 84 teeth	*This item	may require	e special order
	275AM1 209E4* 316AHM2 335D1 321AA1 AAA327MV4 340AD3 435AJ1 201BV2	275AM1 Barrier, insulating, phenolic 209E4* Bearing, roller 316AHM2 Bracket, with shaft, bushings, and fittings 335D1 Bushing, oilite 5/16" I.D., 7/16" long 321AA1 Bushing, oilite 3/8" I.D., 1/2" long AAA327MV4 Cam assembly 340AD3 Collar 435AJ1 Fitting, drive 201BV2 Gear, pinion, 12" teeth	275AM1 Barrier, insulating, phenolic 11. 209E4* Bearing, roller 12. 316AHM2 Bracket, with shaft, bushings, and fittings 14. 335D1 Bushing, oilite 5/16" I.D., 15. 7/16" long 16. 321AA1 Bushing, oilite 3/8" I.D., 17. 1/2" long 18. AAA327MV4 Cam assembly 340AD3 Collar 19. 435AJ1 Fitting, drive 201BV2 Gear, pinion, 12" teeth	275AM1 Barrier, insulating, phenolic 11. 102BS1 209E4* Bearing, roller 12. 386AAM2* 316AHM2 Bracket, with shaft, 13. 494BZ2 bushings, and fittings 14. B494BZ2 335D1 Bushing, oilite 5/16" I.D., 15. 255EB27 7/16" long 16. 195AS1 321AA1 Bushing, oilite 3/8" I.D., 17. 6251E1 1/2" long 18. 135AF2 AAA327MV4 Cam assembly 340AD3 Collar 19. 135AF1 435AJ1 Fitting, drive 201BV2 Gear, pinion, 12" teeth

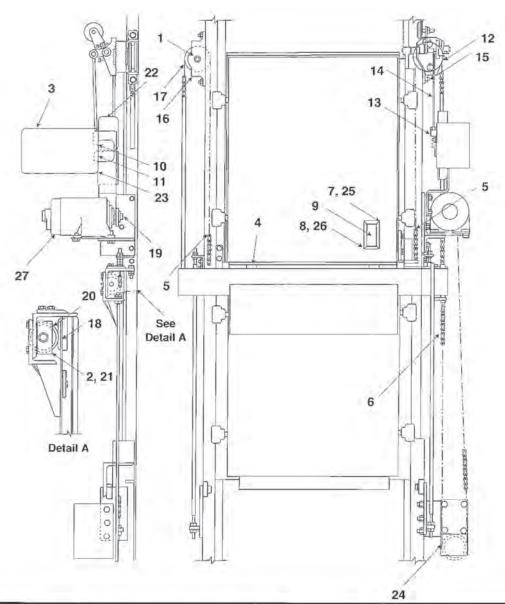
Door Operators: ['F' Type (Vertical Doors)] 6251E1 Mechanical Switch-shown (for A6706A)



Ref. No.	Part No.	Descriptions
ii.	306DS2	Base, contact
2.	176BF1	Connector
3.	150P43*	Contact, movable
4.	150P32	Contact, stationary
5.	464P3	Separator, insulating 15/16" long
6.	464P4	Separator, insulating 1-1/8" long
7.	255EB27	Shim
8.	93BM3	Spring, contact
9.	137E7*	Tube, insulating, 5/8" long

^{*}This item may require special order

Door Operators: ['F' Type (Vertical Doors)] Power Operated Vertical Bi-Parting Hoistway Door Spare Parts

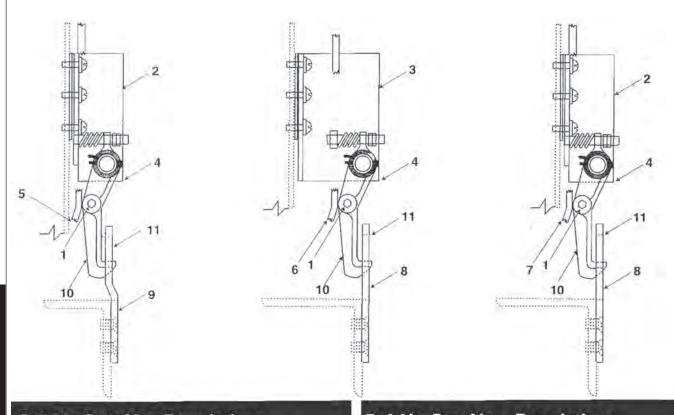


Ref. No.	Part No.	Descriptions	
1.	207Z10	Bearing, ball (for 456AS2), 1	.57" O.D., .67" I.D.
2.	209E1	Bearing, roller (for stand), 1.	45" O.D., .502" I.D.
3.	303B1	Terminal board, 10 stud	
4.	320P2	Bumper, rubber, 1-1/2" dia	
5.	VP-736100	Chain, #6 steel cable, 5/8" p	itch
6.	VP-736700	Chain #41 roller, 1/2" pitch	continues on to next page

Door Operators ['F'Type(VerticalDoors)] Power Operated Vertical Bi-Parting Hoistway Door Spare Parts

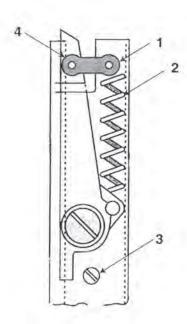
ef. No.	Part No.	Descriptions		
7.	339CH1	Clip, glass, 5" L		
8.	339CH2	Clip, glass, 11-3/4" L		
9.	443AF1	Glass, wire glass, 5" W x 13" L		
10.	430AN1	Link, switch, with drilled hole		
11.	430AN2	Link, switch, w/drilled & tapped hole		
12.	6690D1	Lock, door, RH, complete		
	6690D2	Lock, door, LH, complete		
13.	432A1	Lug (for rod)		
14.	98AT2	Rod w/spacer, 1/4" Dia., 10-5/8" L		
15.	6547B1	Roller, chain type A, RH, complete		
16.	6547B2	Roller, chain, type A, LH, complete		
	6547B4	Roller, chain, type B, LH, complete		
17.	456AS2	Roller, with ball bearing (for chain rollers)		
18.	470P1	Shoe, sprocket		
19.	195DJ2	Sprocket, 12 teeth w/set screws		
	195AV3	Sprocket, 16 teeth w/set screws		
20.	195AT2	Sprocket, 17 teeth, 5/8" bore (for roller chain)		
	195AT3	Sprocket, 17 teeth, 1-1/4" bore (for roller chain)		
21.	A472BB2	Stand, bearing w/roller bearings, 5/8" Dia. shaft		
22.	6098BJ3	Switch, mechanical (for LH door) with spring		
	6098BJ9	Switch, mechanical (for LH door)		
	6098BJ4	Switch, mechanical (for RH door) with spring		
	6098BJ10	Switch, mechanical (for RH door)		
23.	6098BJ6	Switch, mechanical (for LH door)		
	6098BJ5	Switch, mechanical (for RH door)		
24.	A6706A1	Switch, stopping		
25.	393Y2*	Trough, asbestos, 5" L (for glass)		
26.	393Y1*	Trough, asbestos, 12" L (for glass)		
	485G1	Turnbuckle (for #6 chain) (not shown)		

Door Operators: ['F' Type (Vertical Doors)] Fire Latch Spare Parts (Power Operation)



Ref. No. Part No.		Descriptions	Ref. No. Part No.		Descriptions	
1.	207AS1	Bearing, ball (for 59E9) .875" O.D., .375" I.D.	7.	A327EN4	Cam, fire latch, RH, 4-1/16" L (for pass type)	
2.	316BCX1	Bracket, RH, w/pin & rod (for regular type narrow sill &	8.	41G1	Keeper, plate, RH (for pass & regular type wide sill)	
	316BCX2	pass type) Bracket, LH, w/pin & rod (for		41G2	Keeper, plate, LH (for pass & regular type wide sill)	
	31000.72	regular type narrow sill &	9.	41G3	Keeper, plate, RH (for regular type narrow sill)	
3.	316BCY1	pass type) Bracket, RH, w/pin & rod		41G4	Keeper, plate, LH (for regular type narrow sill)	
	316BCY2	(for regular type wide sill) Bracket, LH, w/pin & rod	10.	331AJ2	Latch, RH w/bearing, bolt, tube, pin & bushing	
4.	335E58	(for regular type wide sill) Bushing, straight, oil-less,		331AJ3	Latch, LH w/bearing, bolt, tube, pin & bushing	
5.	A327EN5	3/4" I.D., 7/8" O.D., 7/8" L Cam, fire latch, RH, 4-1/16" L	11.	135AA15	Tube, 5/8" O.D., 5/32" L, steel (for 331AJ2 & 331AJ3)	
	A327EN2*	(for regular type narrow sill) Cam, fire latch, LH, 4-1/16" L			(10) 30 (102 31 32 31 31)	
6.	A327EN6	(for regular type narrow sill) Cam, fire latch, RH, 4-1/16" L (for regular type wide sill)	* This iten	n may requir	re special order	

Door Operators: ['F' Type (VerticalDoors)] Fire Latch Spare Parts (Fusible Link Type)

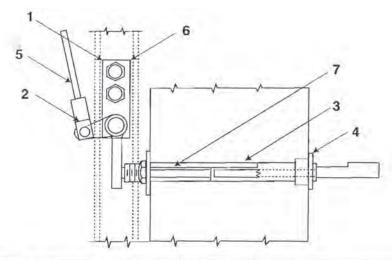


Ref. No.	Part No.	Descriptions
1.	430BL1	Link, fusible
2.	91AD1	Spring, extension, 5/8" O.D., 2-7/8" L, 15 active turns
3.	96A7	Stud, stop
4.	129W12	Washer

Door Operators: ['F' Type (Vertical Doors)] Freight Door Guide Shoes

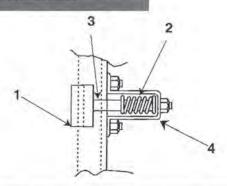
	Part No.	Length	Width	Depth	Descriptions
	470P2	¥		•	Assembly of 470P1 brake shoe, 316AHF1 bracket, shims, and screws. Hand:as shown
470P2 470P3 470P1	470P3	8	•	4	Assembly of 470P1 brake shoe, 316AHF2 bracket, shims, and screws. Hand: opposite
	470P1	3.00"	0.87"	0.34"	Vertical hoistway door, brake sho steel
A237AJ2	A237AJ2	4.00"	1.84"	0.75"	Assembly of A237AJ1 guide sho screw and washers, 336DH1 clamp (shaft - A96AJ1 + spring 90KC10, not included) Only available in malleable iron.
	237AR2	4.50"	9	4	6806A Vertical lifting car gate. Guide shoe
	237AR1	8.00"	4		6806A Vertical lifting car gate. Guide shoe
	B237AL1	7.00"	5.81"	1.31"	6694Z5 Vertical hoistway door. guide shoe, cast iron, as shown
237AR_	B237AL2	7.00"	5.81"	1.31"	6694Z5 Vertical hoistway door. guide shoe, cast iron, opposite

Door Operators: ['F' Type (Vertical Doors)] Emergency Key Device Spare Parts



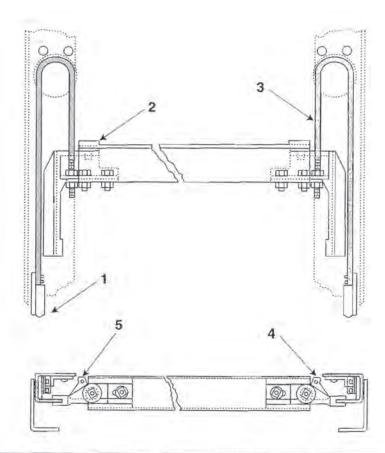
Ref. No.	Part No.	Descriptions
1.	316AYY2	Bracket w/lever, bushing & pin (for RH device)
	316AYY3	Bracket w/lever, bushing & pin (for LH device)
2.	432A3	Lug with pin
3.	377AY1	Pipe, 3/8" O.D., 12-1/2" L
4.	386HD3	Plate, escutcheon
5.	98AS1	Rod, 1/4" Dia., 24" L
	98AS2	Rod, 1/4" Dia., 38" L
6.	255EB30	Shim, 1-1/4" W, 2" L, 3/16" Thk
7.	377PA10	Pipe, spacer, 1/8" Dia. 5" L

Door Guide Shoe Spare Parts



Ref. No.	Part No.	Descriptions
1.	A237AJ2	Shoe, door guide w/clamp & screws
2.	90KC10	Spring, compression, 1" O.D., 3-1/4" L, 10 active turns
3.	A96AJ1	Stud, eccentric, 6-3/8" L
4.	VP-721550	Bracket

Door Operators: ['F' Type (Vertical Doors)] Counterbalanced Lintel (Pass Doors)



Ref. No.	Part No.	Descriptions
1.	320P1	Bumper, rubber, 3/4" Dia.
2.	320P2	Bumper, rubber, 1-1/2" Día.
3.	392AS1	Hitch with 1/8" galvanized aircord 7' 6" L
	392AS2	Hitch with 1/8" galvanized aircord 9' 6" L
4.	B237AL1	Shoe, guide, RH
5.	B237AL2*	Shoe, guide, LH

^{*} This item may require special order

Door Uperators

Notes

Notes: