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### COLOR KEY FOR ADAMS POLY

Red = LF<sup>80</sup> Low Friction  
 Black = SP<sup>80</sup> Soft  
 Clear = HD<sup>95</sup> Heavy Duty

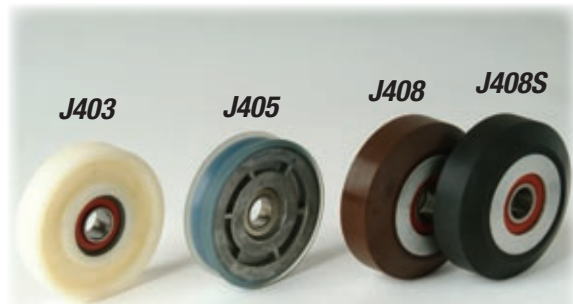
Looking for a quiet guide roller? Adams' SPx<sup>80</sup>™ Quiet Poly rollers give the quiet ride you enjoy with rubber...PLUS:

- "Quiet Poly" lasts longer than rubber
- Stands up to petroleum products that invade hoistway and reduce roller life
- "Quiet Poly" resists ozone degradation

SPx<sup>80</sup> is the exclusive Adams Durabond® polyurethane formulation that's short on noise and long on life!

For greater durability, choose HDx<sup>95</sup>™ Heavy Duty poly.

Door hanger rollers feature LFx<sup>70</sup>™ Low Friction poly.



For Quiet Poly, look for "S" in part no.



For Quiet Poly, look for "S" in part no.



For Quiet Poly, look for "S" in part no.

NOTE: Rollers in this table are not shown.

Adams part no.	Description	Material		Dimensions		Bearing bore	Haughton part no.
		Hub	Tire	O.D.	Width		
J403	Upthrust roller for TH operator car door hanger	Aluminum	Nylon	3 <sup>3</sup> / <sub>8</sub> "	3/4"	0.6299"	3-40126-93
J404	Idler sheave for car door hanger and safety edge retractor		Nylon	1 <sup>7</sup> / <sub>8</sub> "	3/4"	0.5000" (sleeve)	35-1229-03
J405	B-4 hanger roller wheel		LFx <sup>70</sup> low-friction poly	3 <sup>5</sup> / <sub>16</sub> "	3/4"	0.6250"	3-40130-79
J408S	Guide roller		SPx <sup>80</sup>	3 <sup>17</sup> / <sub>32</sub> "	1 <sup>5</sup> / <sub>16</sub> "	0.6693	—
J408	Guide roller		HDx <sup>95</sup>	3 <sup>17</sup> / <sub>32</sub> "	1 <sup>5</sup> / <sub>16</sub> "	0.6693	—

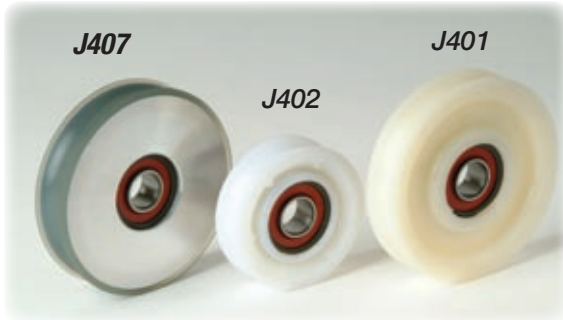
Adams part no.	Description	Material		Dimensions		Bearing bore	Haughton part no.
		Hub	Tire	O.D.	Face		
J410	Upthrust roller ass'y.	n/a	n/a	1 <sup>3</sup> / <sub>8</sub> "	7/16"	0.6299"	3-26064-00, 34-0792-097
J420S J420	Roller guide wheel	Aluminum	SPx <sup>80</sup> HDx <sup>95</sup> (1 <sup>5</sup> / <sub>16</sub> "W)	3 <sup>1</sup> / <sub>2</sub> "	3/4"	0.6993"	3-40150-71, 3-40196-74
J422S J422	Roller guide wheel		SPx <sup>80</sup> HDx <sup>95</sup> (1 <sup>1</sup> / <sub>16</sub> "W)	3 <sup>1</sup> / <sub>2</sub> "	3/4"	0.5119"	3-40158-67
J423S J423	Roller guide wheel		SPx <sup>80</sup> HDx <sup>95</sup> (1 <sup>5</sup> / <sub>16</sub> "W)	3 <sup>1</sup> / <sub>2</sub> "	1"	0.7874"	
J421	Eccentric wheel support kit for J420; incl. eccentric pin & washer, axle pin, hardware; order J420 wheel separately						

<sup>3</sup>/<sub>16</sub>" shoulder, <sup>5</sup>/<sub>8</sub>" L shaft      \*\*Roller comes with 2 ball bearings.

Adams part no.	Description	Material		Dimensions		Bore diam.	Haughton part no.
		Hub	Tire	O.D.	Face		
J424S J424	Roller guide wheel	Aluminum	SPx <sup>80</sup> HDx <sup>95</sup> (1 <sup>1</sup> / <sub>8</sub> "W)	5"	7/16"	0.630"	35-1159-004
J425S J425	Roller guide wheel		SPx <sup>80</sup> HDx <sup>95</sup> (1 <sup>3</sup> / <sub>8</sub> "W)	7 <sup>7</sup> / <sub>8</sub> "	1/2"	0.630"	35-1159-002
J426S J426	Roller guide wheel		SPx <sup>80</sup> HDx <sup>95</sup> (1 <sup>1</sup> / <sub>4</sub> "W)	8"	3/4"	0.787"	3-40329-01

\* Bearing fitted with a steel inner sleeve.

Adams part no.	Description	Material		Dimensions		Bearing bore	Haughton part no.
		Hub	Tire	O.D.	Face		
J428A	Limit switch roller	Cold drawn steel	HDx <sup>95</sup>	3 <sup>1</sup> / <sub>2</sub> "	0.625"	0.6250"	3-40154-23
J428B	Limit switch roller	Cold drawn steel	HDx <sup>95</sup>	3 <sup>1</sup> / <sub>2</sub> "	0.625"	0.6299"	3-19373-2
J429S	Tach generator roller	Aluminum	SPx <sup>80</sup>	3 <sup>1</sup> / <sub>2</sub> "	0.625"	0.3125"	3-40010-13



Adams part no.	Description	Material		Dimensions		Bearing bore	Haughton part no.
		Hub	Tire	O.D.	Width		
J401	Hanger roller wheel	—	Nylon	3 <sup>11</sup> / <sub>16</sub> "	3/4"	0.6299"	3-40157-63, 16847-C, J, R
J402	Hanger roller wheel	—	Nylon	2 <sup>5</sup> / <sub>8</sub> "	3/4"	0.6299"	3-16847-03, NAS-16847-E
J406*	Hanger roller wheel	Die cast aluminum	LFx <sup>70</sup> ™ low-friction poly	2 <sup>5</sup> / <sub>8</sub> "	3/4"	0.6299"	3-40157-60
J407**	Hanger roller wheel	Die cast aluminum	LFx <sup>70</sup> ™ low-friction poly	3 <sup>11</sup> / <sub>16</sub> "	3/4"	0.6299"	3-40157-63

\*Same as J402. \*\*Same as J401.

Durabond, HDx<sup>65</sup>, LFx<sup>70</sup>, SPx<sup>80</sup>—Reg. TM Adams Elevator Equipment Company

Roller Replacement Kits Includes Roller and Hardware	Rollers Only		
	Adams part no.	Haughton part no.	
3-40134-75	J403	3-40126-93	3 <sup>3</sup> / <sub>8</sub> " Upthrust Roller
3-40329-11		3-40327-14	10" Guide Roller
3-40329-10	J426S	3-40329-01	8" Guide Roller
3-40196-74	J420	3-40151-00	3 <sup>1</sup> / <sub>2</sub> " Guide Roller



3-40134-75 Kit  
3-40126-87 Stud only  
3-40126-83 Spacer only  
3-40126-93 Roller



3-40329-10



3-40196-74



3-40329-01

MISC. ROLLERS/COMPONENTS



3-40052-31  
Pulse Wheel & Collar



322C363G01  
Roller-5<sup>1</sup>/<sub>4</sub>" OD

For M, N, NT, NTA Escalators



3-19327-02  
Roller Hub 1.75"



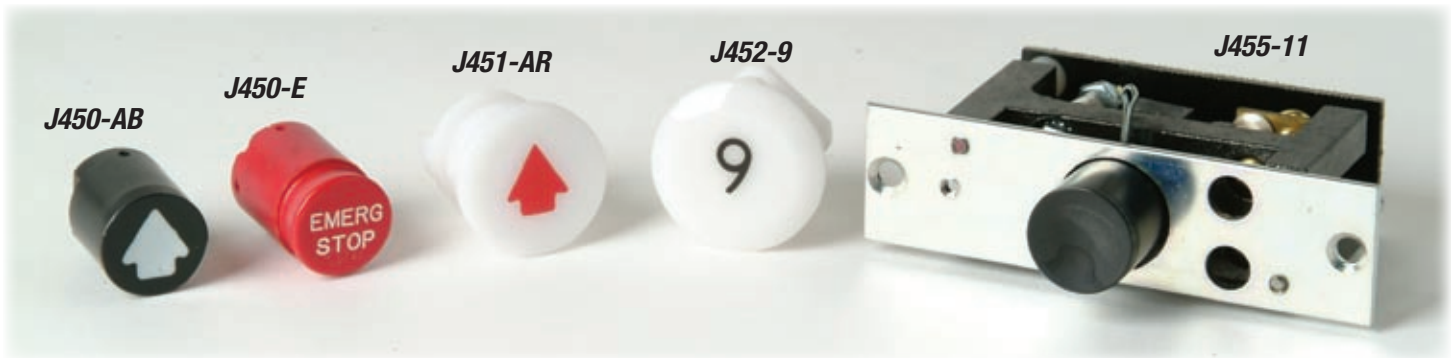
3-40130-80  
Pin, Upthrust Roller



3-19373-03  
Limit Switch  
Roller Assembly



3-40131-03  
Pin, Hanger  
Sheave Pin



PUSHBUTTON CHARACTERS (✓ = AVAILABLE FOR THAT SERIES)					
Part no. suffix	Character	Adams part no. series			
		J450	J451	J452	J455
-A	A	✓			
-AB	Arrow, black		✓	✓	
-AG	Arrow, green		✓	✓	
-AL	Alarm	✓			
-AR	Arrow, red		✓	✓	
-B	B	✓	✓	✓	
-BL	Blank	✓	✓	✓	
-C	C	✓			
-D	D	✓			
-DC	Door Close	✓	✓	✓	
-DO	Door Open	✓	✓	✓	
-E	Emerg. STOP	✓			
-G	G	✓	✓	✓	
-GR	Ground	✓			
-L	L	✓	✓		
-LL	LL	✓	✓	✓	
-M	M	✓	✓		
-U	Up	✓			
-1R	1 Rear	✓			
-1	1	✓	✓	✓	✓
-2	2	✓	✓	✓	✓
-3	3	✓	✓	✓	✓
-4	4	✓	✓	✓	✓
-5	5	✓	✓	✓	✓
-6	6	✓	✓	✓	✓
-7	7	✓	✓	✓	✓
-8	8	✓	✓	✓	✓
-9	9	✓	✓	✓	✓
-10	10	✓	✓	✓	✓
-11	11	✓	✓		✓
-12	12	✓	✓		✓
-13	13	✓	✓		✓
-14	14	✓	✓		✓
-15	15	✓	✓		✓
-16	16	✓	✓		✓
-17	17	✓	✓		✓
-18	18	✓	✓		✓
-19	19	✓	✓		✓
-20	20	✓	✓		✓

### J450-SERIES

J450 is a black "Type E" pushbutton with white characters. It measures 3/4" dia. x 7/8"L. Available only with characters listed.

To order, specify J450 plus the suffix of the characters you need. For example, to order a pushbutton with the word ALARM, ask for Adams part no. J450-AL.

Our J450-E emergency STOP button is red with white characters; 1 1/16"L. Replaces Haughton part no. 19355.

### J451-SERIES

J451 (Haughton part number 3-40080-series) is a white "Type H" pushbutton with black characters. It measures 1 3/32" dia. x 1 3/32"L overall.

To order, specify J451 plus the suffix of the characters you want. For example, to order a pushbutton that reads "Door Open," ask for Adams part no. J451-

### J452-SERIES PUSHBUTTONS

J452 is a white "Type F" pushbutton w/black characters. It measures 1 1/4" dia. and features a square base.

To order, specify J452 plus the suffix for the character you need. For example, a pushbutton with the character 3, is Adams part no. J452-3.

### J455-SERIES PUSHBUTTON ASSEMBLIES

J455 is a black "Type E" momentary pushbutton switch assembly with white characters. Base is impact-resistant Lexan®.

To order, specify J455 plus the suffix for the character you need. For example, to order a pushbutton with the character 11, order Adams part no. J455-11.

NOTE: Uses J450 button.



3-40218-14  
"H" Button collar



3-19351-09  
"H" Button base



35-1133-005  
H-type switch assembly, no resistor  
3-40150-54  
H-Type Swswitch Assy. w/Resistor



3-40081-36  
Pushbutton, ("H")  
"Emerg Bell"

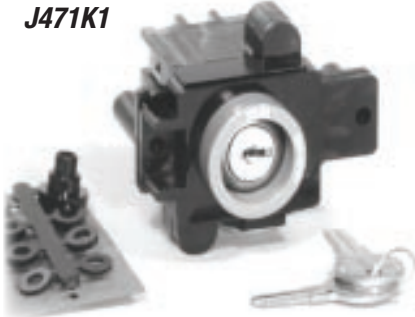


3-40081-37  
Pushbutton, ("H") "Emerg Bell" Red



# Replacement STOP Switches for Haughton

**J471K1**



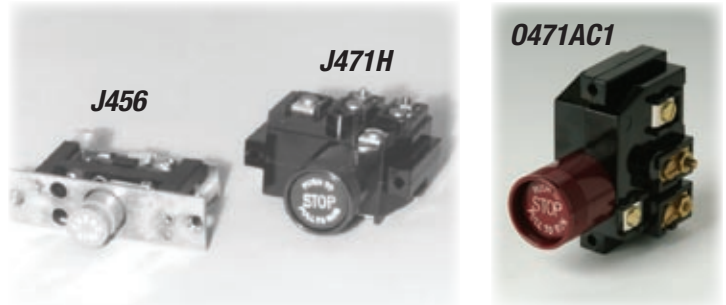
**ASME A17.1, 210.2(v), 1990 requires keyed STOP switches in new passenger elevators where STOP switches are specified**

## KEYED STOP SWITCH

Keyed STOP switches prevent unauthorized stopping of elevator cabs. Passengers are protected because vandals cannot stop the elevator. Keys can be used by maintenance personnel to render the car inoperable. Retrofitting to keyed models can help eliminate the kinds of delays that cause distress to riders in your service area.

**J471K1.** Keyed STOP switch for Haughton, horizontal mount (shown above). Uses same hole diameter and stud pattern as Haughton horizontal STOP switch no. 3-40216-56 (**J471H** at right). Contacts are 2NC; halo diameter is 1<sup>5</sup>/<sub>8</sub>".

**O471K1.** Keyed STOP switch for Haughton, vertical mount (see photo on right). Uses same hole diameter and stud pattern as Haughton vertical STOP switch no. 3-40216-57 (**O471AC1** at right). Uses AE102 key.



## PUSH/PULL STOP SWITCHES

**J456.** Push/pull STOP switch replaces OEM Type E model; horizontal mounting configuration. Contacts are 1NO/1NC. Can also be used with any J450 button.

**J471H.** 1"-dia. push/pull STOP switch with collar; horizontal mounting configuration. Contacts are 2NC; no auxiliary contacts. Replaces Haughton part no. 3-40216-56. For aluminum button, ask for a special order.

**O471AC1.** Same as J471H, for vertical mounting. Replaces Haughton part no. 3-40216-57. For aluminum button, order part number **O474AC1**.



**O471K1**

## HAUGHTON KEY SWITCHES



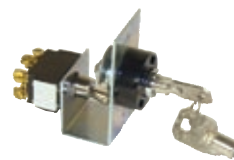
**3-40079-06**  
Keyswitch-Complete  
(Momentary)

**3-36335-01**  
Toggle Switch (2PDT)



**3-40079-22**  
Keyswitch

**3-40079-51**  
Key (Ace CLC332)



**3-40079-26**  
Fire Service keyswitch  
(Key # CLC332)



**3-40078-11**  
Marking ring face,  
blank Red



**3-40078-30**  
Marking ring face



**3-40078-18**  
Marking ring face,  
blank Black

### TYPE "L" EXTENDED BUTTONS



**3-40325-98**  
Extended button,  
Arrow Type "L"



**3-40325-99**  
Extended  
Button cap,  
Type "L"

### HAUGHTON-SERIES

(3-40325-XX) Type "L" extended buttons. Replace "xx" with button marking. For example; for Type "L" extended button marked with "12", order 3-40325-12.

### FIXTURE COMPONENTS



**3-40335-95**  
Cover plate, direction  
indicator



**3-40320-11**  
Position indicator, LCD



**3-40026-99**  
Gong, 12V



**3-40134-64**  
Gong, 24V



**3-19561-23**  
Lantern arrow,  
White (Red= -20,  
Green= -21)



**3-40007-99**  
Red jewel



**3-40218-98**  
Round lantern  
lens



**3-40049-69**  
Arrow lens



**3-36266-08** Bell



**3-40238-08**  
Lantern Lens, Red  
(White= -07)

### LAMPS



**3-40118-75**



**3-40317-98**

### LAMPS

Part no.	Description	Type	Haughton part no.
<b>A480L4</b>	14 V, MIN. BAYONET	1815	36300
<b>A480L8</b>	28 V, MIN. BAYONET	1843	3-36300-01
<b>A480L15</b>	120 V, MIN. BAYONET	120MB	3-40121-08
<b>A481L2</b>	13.5V, G6SC BAYONET	97	36285
<b>A481L6</b>	28V, G6SC BAYONET	1251	33-1067-005
<b>A489L1</b>	115V, CAND. SCREW	6T4-1/2/120	3-26122-00
<b>3-26122-02</b>	120V	25T10	3-26122-02
<b>3-36325-00</b>	6.5V, MIN. BAY. T-5	1462	3-36325-00
<b>3-40014-98</b>	28V, WHITE TYPE GF	2190F91	3-40014-98
<b>3-40118-75</b>	120V, MSCP S11/102	S11/102	3-40118-75
<b>3-40317-98</b>	LED RED 28V	8MB/27-BUR	3-40317-98
<b>3-40324-91</b>	LED ULTRA BRITE 28V	MB116CU4	3-40324-91
<b>3-40362-74</b>	LED WHITE 28V	30DD	3-40362-74
<b>3-40336-61</b>	MIN. BAYONET T-3-1/4	1873	3-40336-61

**TRANSFORMERS**

Part no.	Primary (VAC)	Phase	Secondary(ies)	Power (VA)
3-26136-00	440/480	3	220/190/180	3000
3-26137-01	115	1	24/20/16	150
3-26137-05	208/220	1	117	150
3-26137-09	208/480	3	254/240/220/135/128/117	106
3-26137-11	208/480	1	220/117	250
3-36218-03	210/230	3	12/10/8	100
3-40008-87	180	3	29/26/23	100
3-40155-19	208/230	1	98	125
3-40155-30	460	1	230	300
3-40196-29	120	1	12	10
3-40255-37	220/480	1	115	150
3-40266-16	115	1	36/18	6
3-40276-29	345/390	3	460	500
3-40288-97	208/480	1	180	1400
3-40302-27	220/440	3	115	300
3-40332-08	240/480	1	90	430
3-40386-58	480	3	240	750
3-40395-78	220/240/440/480	1	250/125	1000
3-40395-76	240/480	3	180/90	1000
3-40396-21	208/220/240/440/460/480	1	300/150	4500
3-40396-56	208/270/325/380	1	230	250
34-1147-014	208/220/240	1	115 or 24	25 or 50



3-26136-00



3-40396-21



3-36286-01



3-40230-63



3-40116-16



3-40255-47

**FUSES**

Part no.	Fuse Type	Rating	Package Size
3-40014-78	ABC	5A	5
X52BS1H03	AGC GLASS	1A	5
3-36286-00	AGC GLASS	3A	5
3-36286-01	AGC GLASS	6A	5
3-36286-02	AGC GLASS	8A	5
3-40177-23	AGC GLASS	0.5A	5
3-40258-32	AGC GLASS	5A	5
3-40391-76	AGC GLASS	4A	5
X52BS4H60	FNQ	5A	10
3-40008-89	FNQ	10A	10
3-40008-90	FNQ	15A	10
3-40259-66	FNQ	2A	10
X52BS2H38	FNQ	3A	10
3-40302-06	FNQ	1A	10
3-40145-23	FRNR	12A	10
3-40148-18	FRNR	0.3A	10
K3300H11	FRNR	20A	10
3-40230-63	FRNR	5A	10
3-40230-64	FRNR	10A	10
3-40230-65	FRNR	15A	10
3-40290-66	FRNR	3.2A	10
3-40196-85	FRSR	12A	1
3-40230-59	FRSR	10A	1
3-40255-47	FWH	300A	1
197C050H05	FWH	400A	1
322C826H02	KAB	5A	10
3-40116-12	KAB	10A	10
3-40116-13	KAB	15A	10
3-40116-14	KAB	20A	10
3-40116-16	KAB	30A	10
3-40122-46	KTK	15A	10
3-40122-47	KTK	20A	10
222437	KTK	30A	10
3-40014-65	MDL	2A	5
3-36341-02	MIN	10A	10

### Door Operator Parts



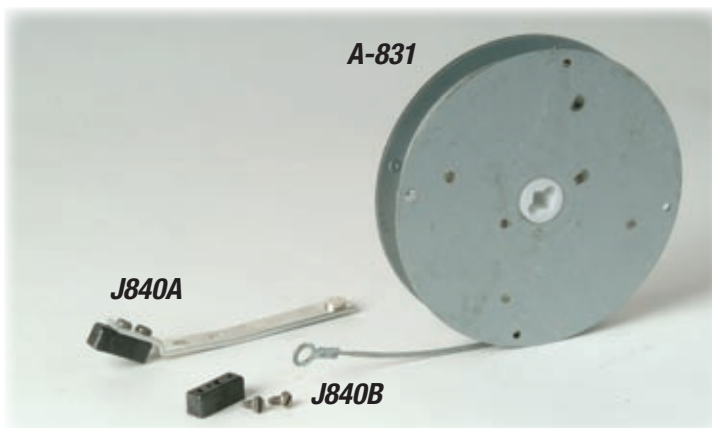
Adams part no.	Description	Haughton part no.
<b>J835</b>	Stationary contact assembly, complete; for "B" & "B1" contact assemblies and "J" limit switch. Used with J836 movable contact ass'y, below	3-19237-02, 19237-C
<b>J836</b>	Movable contact kit for "B" & "B1" contact assemblies and "J" limit switch; incl. contact mounted on 2 <sup>3</sup> / <sub>16</sub> " x 1/2" insulator, and separate 2" x 1/2" insulator; used with J835 stationary contact assembly, above	3-19239-01, 19239-A



Adams part no.	Description	Haughton part no.
<b>J830A1</b>	Bridge contact & bracket assembly (RH) for type "M" interlock; shown	—
<b>J830A2</b>	Bridge contact & bracket assembly (LH) for type "M" interlock; opposite of shown	—
<b>J831A1</b>	Bridge contact & bracket assembly (RH) for type "M" interlock; opposite of shown	—
<b>J831A2</b>	Bridge contact & bracket assembly (LH) for type "M" interlock; shown	—
<b>J20C1</b>	Brass bridge contact, used with J830A1/A2 assemblies, above	3-28763-02, 28763-E
<b>J22C3</b>	Heavy-duty bridge contact, used with J831A1/A2 assemblies, above	3-28763-01
<b>J832B1</b>	Bridge contact bracket only (RH), for J830 & J831, above (shown)	34-2551-004
<b>J832B2</b>	Bridge contact bracket only (LH), for J830 & J831, above (opposite of shown)	34-2551-005



Adams part no.	Description	Haughton part no.
<b>J820</b>	Door clutch roller, 2 <sup>1</sup> / <sub>4</sub> "OD x <sup>9</sup> / <sub>16</sub> " wide face, <sup>7</sup> / <sub>16</sub> " bore; for "T" and "TH" door operators	3-16497-00, 16497-D
<b>J825</b>	Interlock roller & pin assembly; polyurethane roller is 1 <sup>3</sup> / <sub>4</sub> " dia. x <sup>3</sup> / <sub>4</sub> " wide face; <sup>5</sup> / <sub>8</sub> "-dia. axle is 1 <sup>3</sup> / <sub>8</sub> "L	35-2551-006
<b>J825R</b>	Same as J825, without pin (not shown)	



Adams part no.	Description	Haughton part no.
<b>J840A</b>	Moving contact assembly; incl. J840B insulator (below) and <sup>3</sup> / <sub>8</sub> "-dia. silver contact; incl. J320 stationary contact; for type "K" limit switch	3-20342-02, 20342-B
<b>J840B</b>	Insulator block for J840A moving contact ass'y., above; 1" x <sup>3</sup> / <sub>8</sub> " x <sup>3</sup> / <sub>8</sub> ", w/two 6-32 tapped holes	34-1184-06
<b>A831</b>	Adams reel-type door closing spirator; universal mounting hub; heavy-duty construction, 5" dia.	33-1651-001
<b>A832</b>	Standard-duty spirator, 5" dia.	33-1651-001
<b>W832</b>	Spirator, 6" dia.	—
<b>A831B</b>	Mounting bracket for A831 and A832 spirators	—



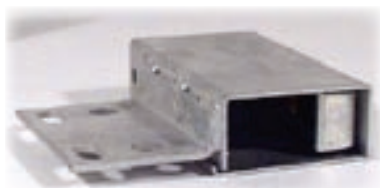
### INTERLOCKS

INTERLOCKS	
Part No.	Description
3-40113-22	INTERLOCK ASSY, TYPE "M", LH
3-40113-23	INTERLOCK ASSY, TYPE "M", RH (NOT SHOWN)
3-40113-01	INTERLOCK BOX & CONTACT, TYPE "M", RH
3-40113-02	INTERLOCK BOX & CONTACT, TYPE "M", LH (NOT SHOWN)
3-40115-66	INTERLOCK ROLLER & MTG PLATE ASSY RH
3-40115-67	INTERLOCK ROLLER & MTG PLATE ASSY LH (NOT SHOWN)
3-40110-72	ROLLER SUPPORT
3-40130-19	RUBBER BUSHING FOR 3-40113-22



3-40113-22

3-40113-23



3-40113-01



3-40110-72



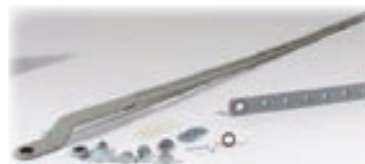
34-2551-009



3-40115-66

### CLUTCH COMPONENTS

CLUTCH COMPONENTS	
Part no.	Description
3-40176-95	CLUTCH ROLLER ARM COMPLETE
3-40176-78	CLUTCH LINK
35-0866-001	CLUTCH FACE ASSY



3-40176-95

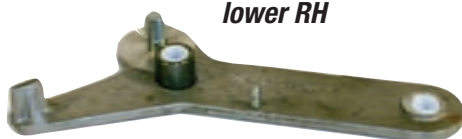


3-40176-78



35-0866-001

### SAFETY EDGE



3-40157-89  
Safety edge link,  
lower RH



3-40157-90  
Safety edge link,  
lower LH



**3-40151-14**



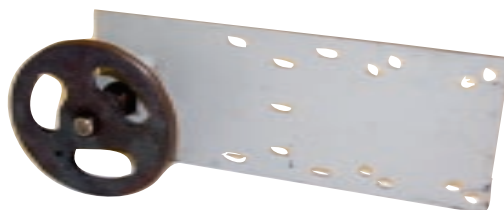
**3-40132-68**



**3-40151-15**



**3-40132-69**



**3-40151-18**



**3-40132-81**  
*Shaft & bracket*



**3-04896-04**



**3-04897-01**



**34-0857-019**



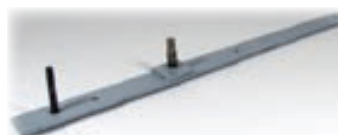
**34-1229-005**

<b>SHEAVES</b>	
Part no.	Description
<b>3-40151-14</b>	OPERATOR DRIVE SHEAVE ASSY, 12", "T1", 2 SPEED
<b>3-40151-15</b>	CABLE DRIVE IDLER SHEAVE ASSY
<b>3-40151-18</b>	IDLER SHEAVE ASSY
<b>3-40132-68</b>	CABLE DRIVE SHEAVE, 3-7/8" OD, "T1"
<b>3-40132-69</b>	CABLE IDLER SHEAVE, "T1"
<b>3-40132-81</b>	SHAFT & BRACKET ASSY

<b>3-04896-04</b>	GOVERNOR SHEAVE & SHAFT, 16"
<b>34-0857-019</b>	GOVERNOR BALANCE SHEAVE, 16" DIA, FOR 3/8" ROPE
<b>3-04897-01</b>	SHAFT, FOR 16" GOVERNOR SHEAVE
<b>34-1229-005</b>	GOVERNOR BALANCE SHEAVE, 16" DIA, FOR 1/2" ROPE



**3-40147-39**



**3-40147-41**

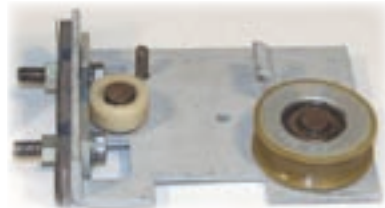
<b>3-40147-39</b>	GOVERNOR TENSION SHEAVE ASSY
<b>3-40147-41</b>	TENSION SHEAVE ARM

**SHEAVE HANGERS**

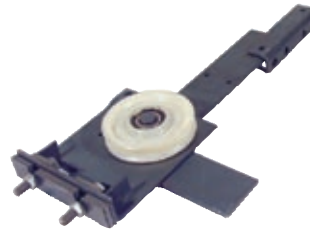
**3-26479-25**



<b>SHEAVE HANGERS</b>	
Part no.	Description
<b>3-26479-17</b>	SHEAVE HANGER & BRACKET ASSY, LH
<b>3-26479-18</b>	SHEAVE HANGER & BRACKET ASSY, RH (NOT SHOWN)
<b>3-26479-25</b>	SHEAVE HANGER & BRACKET ASSY, RH
<b>3-26479-28</b>	SHEAVE HANGER & BRACKET ASSY, LH (NOT SHOWN)
<b>3-26479-47</b>	SHEAVE HANGER & BRACKET ASSY, RH
<b>3-26479-48</b>	SHEAVE HANGER & BRACKET ASSY, LH (NOT SHOWN)



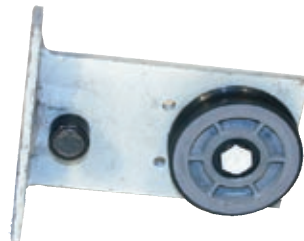
**3-26479-17**



**3-26479-47**



**3-26479-04**



**3-40155-59**

Part no.	Description
<b>3-26479-04</b>	SHEAVE HANGER & BRACKET ASSY
<b>3-40155-59</b>	SHEAVE HANGER & BRACKET ASSY
<b>3-40160-12</b>	SHEAVE HANGER & BRACKET ASSY



**3-40160-12**

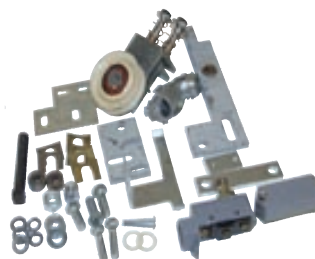
**CAR DOOR LOCKS**



**3-40239-05**



**3-40239-02**



**3-40237-67**

<b>CAR DOOR LOCKS</b>	
Part no.	Description
<b>3-40239-05</b>	CAR DOOR LOCK
<b>3-40239-02</b>	CAR DOOR LOCK KIT
<b>3-40237-67</b>	CAR DOOR LOCK & SWITCH KIT

### DOOR OPERATOR SWITCHES



**3-40136-52**



**3-40154-01**



**3-09938-00**

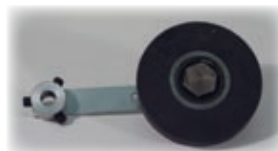
<b>OPERATOR LIMIT SWITCHES</b>	
Part No.	Description
<b>3-40136-52</b>	OPERATOR LIMIT SWITCH
<b>3-40154-01</b>	LIMIT SWITCH TYPE "K", W/ HEATERS
<b>3-09938-00</b>	LIMIT SWITCH TYPE "N"



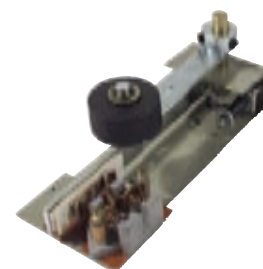
**3-40302-48**



**3-40131-82**



**3-09965-03**



**3-40248-10**

<b>3-40302-48</b>	LIMIT SWITCH TYPE "J", LH
<b>3-09965-03</b>	ROLLER & ARM ASSY - TYPE "J" LIMIT SWITCH
<b>3-40131-82</b>	LIMIT SWITCH TYPE "J", RH
<b>3-40248-10</b>	CONTACT ASSY MTG PLATE, RH

<b>3-40361-09</b>	LIMIT SWITCH
<b>3-06522-10</b>	LIMIT SWITCH
<b>3-06522-03</b>	GATE CONTACT ASSY
<b>3-40156-89</b>	MAG LEVEL SWITCH FOR LU/LD



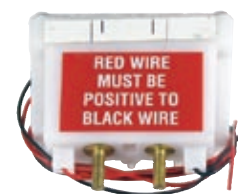
**3-40361-09**



**3-06522-03**



**3-06522-10**



**3-40156-89**



MOTORS & COUPLINGS



3-10086-03

MOTORS & TACH GENERATIONS				
Part no..	Description	Voltage	RPM/HP	Other
3-10086-02	ADVANCE MOTOR ASSY.	240 VAC	72 RPM	SS152
3-10086-03	ADVANCE MOTOR ASSY	120 VAC	72 RPM	0.4 AMPS
3-40191-08	ADVANCE MOTOR ASSY	120 VAC	72 RPM	0.4 AMPS
3-40144-36	MOTOR	230 VDC	1/4 HP	
3-40132-32	TACH GENERATOR		100 V @ 1000 RPM	FLANGE MTG.
3-40315-61	TACH GEN W/MTG KIT		100 V @ 1000 RPM	MTG. H'WARE
3-40239-39	TACH GEN W/MTG KIT			103, 253, 301, 402, & 601 GEARLESS MACHINES
3-26123-12	SYNCH. IND. MOTOR	240 VAC	72 RPM	60 hz, 1 PH, 2 AMPS
3-26123-15	SYNCH. IND. MOTOR W/GEAR	240 VAC	72 RPM	60 hz, 1 PH, 2 AMPS
35-2247-001	CORRECTING MTR. ASSY.			



3-40132-32



3-40315-61



3-40132-75  
Motor Sheave C/P 1-1/4



3-40132-76  
Motor Sheave S/S 1-3/4

BRUSHES & BRUSH HOLDERS

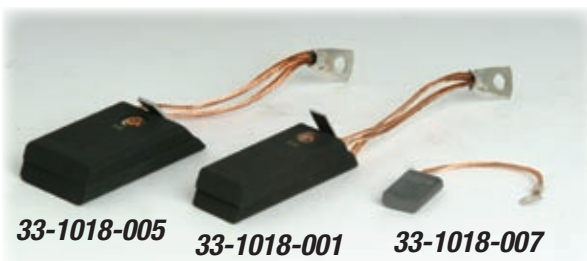
BRUSHES & BRUSH HOLDERS	
Adams part no.	Description
35-1230-001	BRUSH & HOLDER ASSEMBLY
3-16121-01	BRUSH HOLDER BRACKET
3-20717-00	BRUSH RETAINER
33-1018-001	BRUSH, 61001495, GRADE N1, SPLIT
33-1018-005	BRUSH, REGULATOR, GENERATOR
33-1018-007	BRUSH, 61001186, GRADE N1, SPLIT
3-30002-00	BRUSH HOLDER STUD ASS'Y
35-1178-001	BRUSH HOLDER (#601)



3-30002-00



35-1178-001



33-1018-005

33-1018-001

33-1018-007



35-1230-001



3-16121-01



3-20717-00

RESISTORS				
Part No.	Resistance (Ohms)	Watts	Adjustable	Figure
3-26103-00	10	120	Adjustable	1
3-26103-01	100	120	Adjustable	1
3-26103-02	1K	120	Adjustable	1
3-26103-03	10	190	Adjustable	1
3-26103-05	20	120	Adjustable	1
3-26103-06	25	120	Adjustable	1
3-26103-07	250	120	Adjustable	1
3-26103-08	2.5K	120	Adjustable	1
3-26103-09	3	120	Adjustable	1
3-26103-10	50	120	Adjustable	1
3-26103-11	500	120	Adjustable	1
3-26103-12	5K	120	Adjustable	1
3-26103-13	7.5K	120	Adjustable	1
3-36313-03	10K	25	FIXED	4
3-36313-04	750	100	FIXED	2
3-36313-05	7.5K	12	FIXED	4
3-36313-06	10K	8	FIXED	4
3-36313-07	250	12	FIXED	4
3-36313-08	250	25	FIXED	4
3-36313-11	15K	12	FIXED	4
3-36313-12	1.5K	20	FIXED	4
3-36313-14	5K	12	FIXED	4
3-36313-16	1.25K	12	FIXED	4
3-36313-17	600	12	FIXED	4
3-36313-18	25	8	FIXED	4
3-36313-19	1.5K	20	FIXED	4
3-36313-20	3K	12	FIXED	4
3-36313-22	2.5K	12	FIXED	4
3-40049-83	1.6	400	FIXED	3
33-1099-001	200	8	FIXED	4
33-1099-002	500	50	Adjustable	1
33-1099-003	2K	50	Adjustable	1
33-1099-004	2K	8	FIXED	4
33-1099-008	1	190	Adjustable	1
33-1099-009	1.5K	8	FIXED	4
33-1099-010	25K	20	FIXED	4
33-1099-011	25K	80	FIXED	2
33-1099-014	2.5K	25	Adjustable	1
33-1099-017	350	30	FIXED	4
33-1099-022	10K	25	FIXED	4
33-1099-023	1.5K	50	FIXED	4
33-1099-027	1.5K	120	Adjustable	1
33-1099-029	50	160	Adjustable	1
33-1099-030	100	160	Adjustable	1
33-1099-031	250	160	Adjustable	1
33-1099-032	500	120	Adjustable	1
33-1099-033	500	160	Adjustable	1
33-1099-047	120	5	FIXED	4
33-1099-048	1.5K	5	FIXED	4
33-1099-049	750	5	FIXED	4



Figure 1



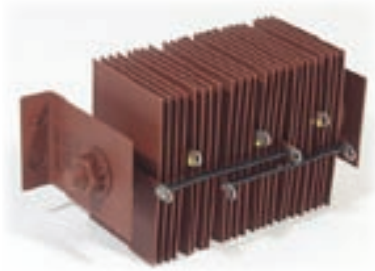
Figure 2



Figure 3



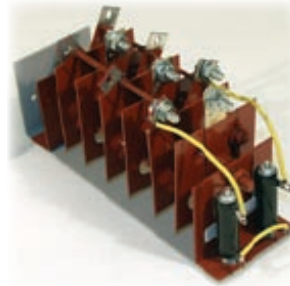
Figure 4



**3-40118-32**  
Rectifier, 8.6A



**33-1094-007**  
Rectifier, 10A



**33-1094-009**  
Rectifier



**33-1094-013**  
Selenium rectifier



**3-40306-53**  
Rectifier assembly, 15A



**3-40306-54**  
Rectifier assembly, 30A



**3-40010-67**  
Rectifier



**3-40008-73**  
3-phase rectifier,  
600V/27.5A



**3-40163-25**  
Rectifier, Stud-mount



**3-40195-74**  
Rectifier,  
Stud Mtg



**3-40110-19**  
Rectifier,  
Stud Mtg



**35-1094-008**  
Rectifier



**3-40288-34**  
Rectifier, 270VAC/  
21A, single phase;  
TS13F-YE

**SUPPRESSORS**



**3-40008-61**  
Arc suppressor



**3-40115-25**  
Miconic MOV, 270V



**3-40255-12**  
Arc suppressor



**3-40255-13**  
Arc suppressor



**3-40246-89**  
Suppressor RG1986-6-6

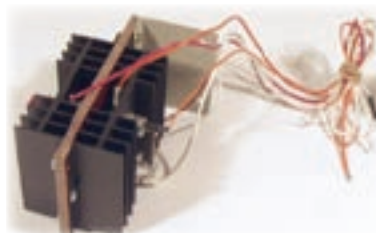
**SCR's**



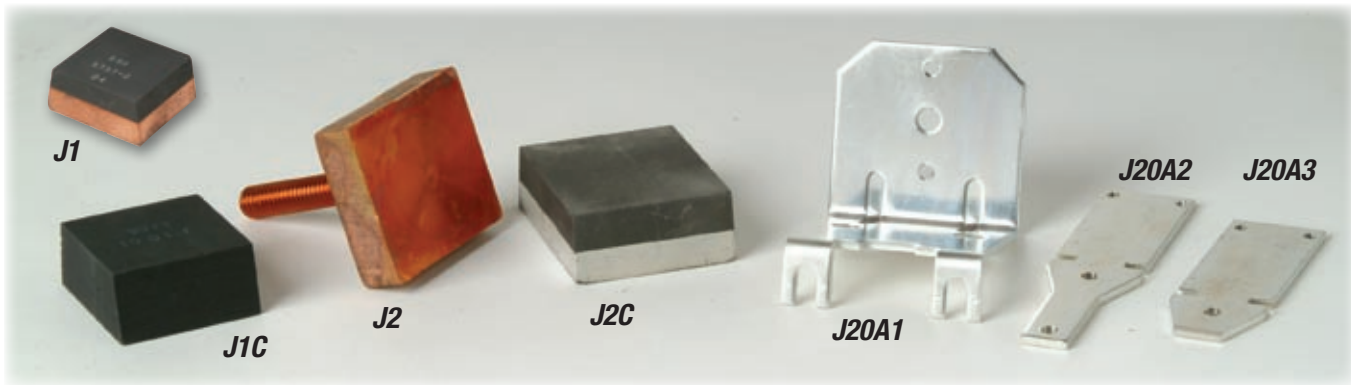
**3-40264-63**  
SCR DD61230-9



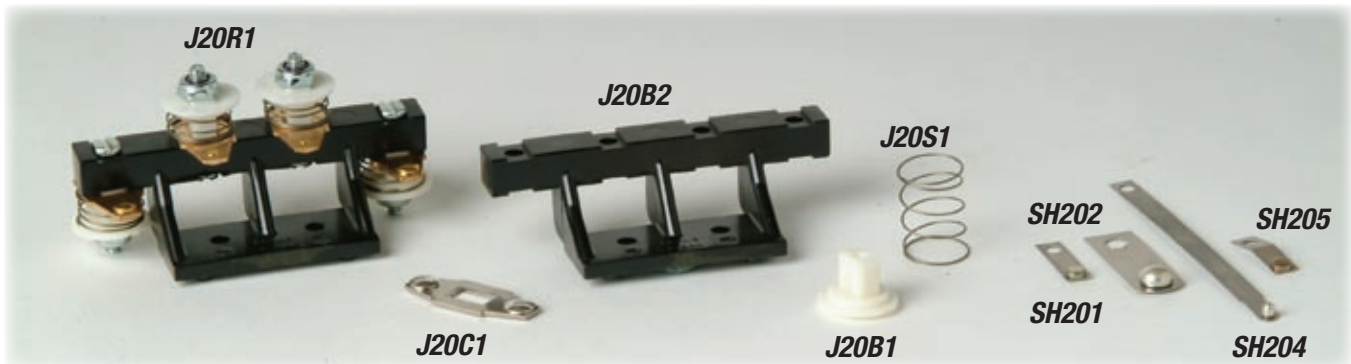
**3-40249-82**  
A-F SCR assembly



**3-40220-01**  
Drive assembly SCR  
geared



Adams part no.	Description	Haughton part no.
<b>J1</b>	Forged copper contact; head: 1/2"L x 1 1/2"W x 1/2" thick; stem: 3/8" dia. x 1 3/4"L (threaded 1 1/2")	5736-B
<b>J1C</b>	Carbon contact for J1 copper; 1 1/2" x 1 1/2" x 3/4"	—
<b>5737</b>	Carbon contact 1 1/2" x 1 1/2" with copper base	—
<b>J2</b>	Forged copper contact; head: 1 3/4"L x 2"W x 1/2" thick; stem: 3/8" dia. x 2"L (threaded 1 3/4")	5574
<b>J2C</b>	Carbon contact for J2 copper; 1 3/4" x 2" x 3/4"	5575
<b>J202</b>	Copper finger, 3/32" thick x 1/2"W x 1 11/32"L; elongated mounting hole, 13/64"W x 7/16"L; cadmium plated	20324
<b>J202B</b>	Finger contact, 18 gauge stainless; 3/64" thick x 1/2"W x 1 9/32"L; elongated mounting hole, 13/64"W x 7/16"L	—
<b>J20A1</b>	Core bracket for armature assembly on AN & AM relays; use w/J20A2 & J20A3 armatures, below	3-28842-02, 28842-C
<b>J20A2</b>	Armature for AN, AM & BN 6-contact relays	3-28841-02, 28841-C
<b>J20A3</b>	Armature for AN, AM & BN 4-contact relays	3-28841-01, 28841-B



Adams part no.	Description	Haughton part no.
<b>J20R1</b>	Movable contact assembly for AN, AM & BN relays; contacts supplied 2NO/2NC (can be reconfigured in field to match job requirements)	3-10062-13
<b>3-28763-02</b>	Contact Bridge-Gold Contacts-for J20R1	3-28763-02
<b>J20B1</b>	Contact bridge guide (Bakelite) for J20R1	3-28764-02, 28764-B
<b>J20B2</b>	Contact bridge insulator for J20R1; Bakelite construction lasts longer, resists high temperatures	3-19487-03, 19487-C
<b>J20C1</b>	Contact bridge (brass) for J20R1; formed silver contact faces for outstanding wiping action (Also used on 10062-series movable contact assemblies and on J830A1/A2 interlocks)	3-40304-67
<b>3-10062-02</b>	Movable Contact Assembly-"F" type 2NO	3-10062-02
<b>3-10062-03</b>	Movable Contact Assembly-"F" type 1NO	3-10062-03
<b>3-10062-04</b>	Movable Contact Assembly-"F" type 1NC	3-10062-04
<b>3-10062-08</b>	Movable Contact Assembly-"F" type 2NC	3-10062-08
<b>3-10062-09</b>	Movable Contact Assembly-"F" type 1NC/1NO	3-10062-09
<b>J20P1</b>	Adjusting screw (not shown) for AN & AM relays; 1 1/16"L with 10-32 thread	3-17592-02, 17592-C
<b>J20S1</b>	Compression spring for J20R1, 1/2"OD x 3/4"L, 5 1/2 turns (Also used on 10062-series movable contact assemblies on AT & N relays)	22100
<b>SH-201</b>	Stainless steel contact blade, 3/16"W x 1 1/16"L; incl. 1/8" dia. silver contact	—
<b>SH-202</b>	Stainless steel contact blade, 3/8"W x 1 1/16"L; incl. 1/4" dia. silver contact	—
<b>SH-203</b>	Stainless steel contact blade, 3/16"W x 2 3/4"L; incl. 1/16" dia. silver contact	—
<b>SH-204</b>	Stainless steel contact blade, 5/16"W x 3 3/8"L; incl. 3/16" dia. silver contact	—
<b>SH-205</b>	Stainless steel contact blade, 3/16"W x 1 1/16"L; incl. 5/32" dia. silver contact; 5° offset near midpoint	—



**3-40340-17**  
Cam, vert.





RELAY PARTS		
Adams part no.	Description	Haughton part no.
<b>J20C2</b>	Short stationary contact for AN, AM & BN relays, <sup>29</sup> / <sub>32</sub> "L; silver-plated brass	3-20456-01, 20456-A
<b>3-20456-01</b>	Short stationary contact for AN, AM & BN relays, <sup>29</sup> / <sub>32</sub> "L; gold-plated brass	3-20456-01
<b>3-20456-02</b>	Stationary contact for AN, AM & BN relays, <sup>51</sup> / <sub>64</sub> "L; gold-plated brass	3-20456-02
<b>J20C3</b>	Long stationary contact for AN, AM & BN relays, <sup>63</sup> / <sub>64</sub> "L; silver-plated brass	20456
<b>J22B1</b>	Contact bridge insulator for "4" 10062-series movable contact assemblies on AM, AN, BN & N relays	19487
<b>J22B2</b>	Contact bridge insulator for "2" 10062-series movable contact assemblies on AM, AN, BN & N relays	19486
<b>J22C1</b>	Adjustable stationary contact stud (standard duty) for AT, F & N relays; <sup>13</sup> / <sub>16</sub> "L with <sup>5</sup> / <sub>16</sub> " dia. silver contact, 6-32 threaded hex head screw; used with J20C1 contact bridge	17548
<b>J22C2</b>	Stationary contact stud for blowouts (heavy duty) for 35-0864-009 stationary contact & bracket ass'y. on AT relays; <sup>13</sup> / <sub>16</sub> "L with <sup>5</sup> / <sub>16</sub> " dia. silver contact, 6-32 threaded hex head screw; used with J22C3 contact bridge	3-17548-06, 17548-H
<b>J22C3</b>	Heavy duty bridge contact for AT & N relays; 1/4" L x 3/8" W with 2 3/8"-dia. silver contacts; also used with J831A1/A2 interlocks	3-28763-01, 28763-B
<b>J22G1</b>	Steel contact spring guide, <sup>3</sup> / <sub>8</sub> " x <sup>5</sup> / <sub>16</sub> " x <sup>3</sup> / <sub>16</sub> " thick, with hole for 6-32 screw; used with J22G2 and J22G3 spring seat washers on 10062-series movable contact assemblies for AN, AT, F & N relays	28764
<b>J22G2</b>	Steel spring seat washer, <sup>19</sup> / <sub>32</sub> " OD with <sup>11</sup> / <sub>32</sub> " x <sup>13</sup> / <sub>64</sub> " rectangular hole; used with J20S1 spring and J22G1 spring guide in 10062-series movable contact assemblies	3-20696-02, 20696-B
<b>J22G3</b>	Steel spring seat washer, <sup>19</sup> / <sub>32</sub> " OD with <sup>5</sup> / <sub>32</sub> "-dia. hole; used with J20S1 spring and J22G1 spring guide in 10062-series movable contact assemblies	3-20696-01, 20696-A



SELECTOR PARTS		
Adams part no.	Description	Haughton part no.
<b>J211</b>	Movable contact, 1/4" L x 3/8" W offset base with 1/4"-dia. silver contact; for 10019 and 10019-M interlock assemblies on Type F, K & T contactors	3-18266-01, 18266-C
<b>J212</b>	Movable contact, 1/4" L x 3/8" W offset base with 3/8"-dia. silver contact; for 10019 and 10019-M interlock assemblies on Type F, K & T contactors	3-18266-02, 18266-E
<b>J220</b>	Movable copper contact, 1" x 1" face; for type F magnet switch	20429
<b>J220C</b>	Stationary carbon contact for J220 movable contact	21003
<b>J221</b>	Movable M.G. start contact w/blowout copper, 1/2" W: includes 3/8" x 1/2" silver contact	20386
<b>J222</b>	Same as J221, without blowout copper	3-20386-02, 20386-B
<b>J223</b>	Stationary/movable contact, 1/2" x 3/8" x 3/16"; incl. silver face and 2 holes tapped for 6-32 machine screw; used for type F magnet switch and M.G. copper	3-20387-02, 20387-B
<b>J224</b>	Stationary copper contact, 3/4" x 1/2" x 3/8"; silver face & 2 holes tapped for 10-24 machine screw	3-20397-00, 20397-B
<b>J310</b>	Movable contact, 17/16" L base with 3/8"-L contact surface; type 300 stainless steel, for type B, B-1, & B-2 Vernier and FA selectors	34-0725-005
<b>J311</b>	Same as J310, with 3/4"-L contact surface	3-20345-02, 20345-B
<b>J320</b>	Button-type selector contact, 15/16" L with 3/8"-dia. head and 3/8"-dia. silver contact; 10-24 thread; for type B, B-1, B-2, and FA selectors, and type K limit switch	3-16562-08, 16562-M
<b>J321</b>	Same as J320, 13/16" L	3-20310-01, 20310-A



3-40092-32



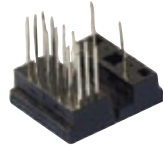
3-40007-96



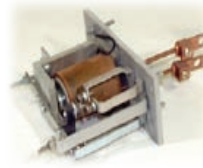
3-40255-36

### PLUG-IN RELAYS

Part no.	Description
3-40007-96	110 VDC; Latching; Octal Base
3-40092-32	120 VAC; 3PDT
3-40092-33	240 VAC; 3PDT
3-40092-34	100 VDC; 3PDT
3-40093-43	24 VDC; 3PDT
3-40245-92	48 VAC; 3PDT
3-40254-92	24 VDC; 4PDT
3-40255-36	115 VAC; 3PDT
3-40277-58	24 VDC; 4PDT
3-40318-74	24 VDC; 2PDT
3-40391-24	120 VAC; 3PDT



3-40008-75



3-09900-18



3-10057-75



3-40029-36



225780



3-36202-05

### RELAYS

Part no.	Description
225780	TYPE "H"; 24 VDC; 6PDT;
225780	TYPE "H"; 24 VDC; 6PDT; W/ LED
3-40008-75	SOCKET FOR TYPE "H" RELAY
3-40290-98	KIT: "H" RELAY W/ LED & SOCKET
3-09900-02	TYPE "AT-64"
3-09900-09	TYPE "AT-21"
3-09900-16	TYPE "AT-65"
3-09900-18	TYPE "AT-21C"
3-36202-05	TYPE "CJ6"
3-10057-55	TYPE AN-40
3-10057-67	TYPE AN-42 W/OUT COIL
3-10057-74	TYPE AN-42 W/ E2D COIL
3-10057-75	TYPE AN-42 W/ E45 COIL
3-40029-12	TYPE AN-64
3-40029-32	TYPE AN-42
3-40029-36	TYPE AN-43
3-40029-37	TYPE AN-43
3-40096-11	TYPE AN-63 220VAC
3-40096-21	TYPE AN-64 220VAC
3-40100-27	TYPE AM-42
3-40100-28	TYPE AM-43
3-40100-29	TYPE AM-44-W/ E26T COIL
3-40129-19	TYPE AN-65BB 120VDC
3-40129-20	TYPE AN-65BB 60VDC

### SOCKETS

Part no.	Description
3-40092-36	3-POLE
3-40266-23	4-POLE
3-40336-11	4-POLE
3-40336-12	3-POLE



3-40336-12



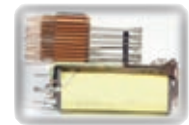
3-40336-11



3-40266-23

### TELEPHONE-TYPE RELAYS

Part no.	Coil Voltage	NO Contacts	NC Contacts	SPDT
3-40155-38	120 VDC	6	2	2
3-40155-40	120 VDC	6	0	4
3-40220-69	24 VDC	8	4	0
3-40258-28	24 VDC	6	2	2
33-1097-001	60 VDC	4	2	2
33-1097-004	120 VDC	3	2	0
33-1097-005	18 VAC	3	2	0
33-1097-006	120 VDC	3	2	0
33-1097-007	120 VDC	3	2	0
34-1097-002	60 VDC	4	2	0
34-1097-003	120 VDC	2	2	0
34-1097-004	120 VDC	2	4	0
34-1097-005	120 VDC	4	2	0
34-1097-006	120 VDC	4	2	0
34-1097-007	120 VDC	4	2	0
34-1097-008	4 VDC	2	1	1
34-1097-009	120 VDC	2	1	1
34-1097-010	60 VDC	4	2	2
34-1097-012	120 VDC	2	0	0
34-1097-013	120 VDC	3	2	0
34-1097-014	120 VDC	12	0	0
34-1097-015	120 VDC	0	0	8
34-1097-016	120 VDC	4	2	2
34-1097-017	120 VDC	2	1	1
34-1097-018	120 VDC	5	5	0
34-1097-019	120 VDC	8	4	0



33-1097-007



34-1097-12

**REPLACEMENT COILS**

Part no.	Resistance (OHMS)	Voltage	Coil Designation	Haughton No.	Remarks
J3002D	5000	230 VDC	E2D	3-23015-09	Fig. 1
J3005	806	55 VAC	E5	3-23015-07	Fig. 1
3-23015-23	818	115 VDC	E11	3-23015-23	Fig. 1
3-23015-21	60	110 VAC	E12G	3-23015-21	Fig. 1
J3016	35	110 VAC @ 60 Hz or 55 VAC @ 25 Hz	E16	3-23015-04	Fig. 1
J3020	187	220/250 VAC	E20	3-23015-24	Fig. 1
J3020G	210	208 VAC	E20G	3-23015-20	Fig. 1
J3023	3240	230 VDC	E23		Fig. 1
J3024G	230	220/240 VAC	E24G	3-23015-19	Fig. 1
J3026	145	208/220 VAC	E26	3-23015-05	Fig. 1
J3026C	95	208/240 VAC	E26C	3-23015-03	Fig. 1
3-23015-01	145	208/240 VAC	E26G	3-23015-01	Fig. 1
J3026T	3400/300	208/220 VAC	E26T	3-23015-02	Fig. 1
J3045	1350	115/440 VDC	E45		Fig. 1
J3046	600	115/440 VAC	E46	3-23015-06	Fig. 1
J3048	920	220/440 VAC @ 25 HZ or 115 VDC	E48	3-23015-18	Fig. 1
J4001	700	115 VDC	T1	3-36102-13	Fig. 2
J4002	2940	230 VDC	T2	3-36102-05	Fig. 2
J4006	480	60 VDC	T6		Fig. 2
J4015	780	115 VDC	T15	36102	Fig. 2
J4025	2900	230 VDC	T25	3-36102-01	Fig. 2
J5001	2900	120 VDC		34-1032-001	Fig. 3

Part no.	Resistance (OHMS)	D. C. (Amps)	Coil Designation	Haughton No.	Remarks
3-36102-04	2.1	0.52 - 1.56	T41	3-36102-04	Fig. 3
J4071	0.51	0.8 - 2.0	T71	3-36102-03	Fig. 3
3-36102-02	0.50	1.7 - 4.0	T90	3-36102-02	Fig. 3
3-36102-11	0.039	0.16 - 0.96	T91	3-36102-11	Fig. 3

**TELEPHONE-TYPE REPLACEMENT COILS**

Haughton Part no.	Voltage	
3-40155-15	120 VDC	Fig. 4
3-40258-34	24 VDC	Fig. 4
34-1032-001	120 VDC	Fig. 5
34-1032-003	120 VDC	Fig. 5
34-1032-005	60 VDC	Fig. 5
34-1032-006	120 VDC	Fig. 5
34-1032-007	18 VAC	Fig. 4
34-1032-009	60 VDC	Fig. 5
34-1032-010	120 VDC	Fig. 5
34-1032-011	120 VDC	Fig. 5
34-1032-012	120 VDC	Fig. 5



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5

