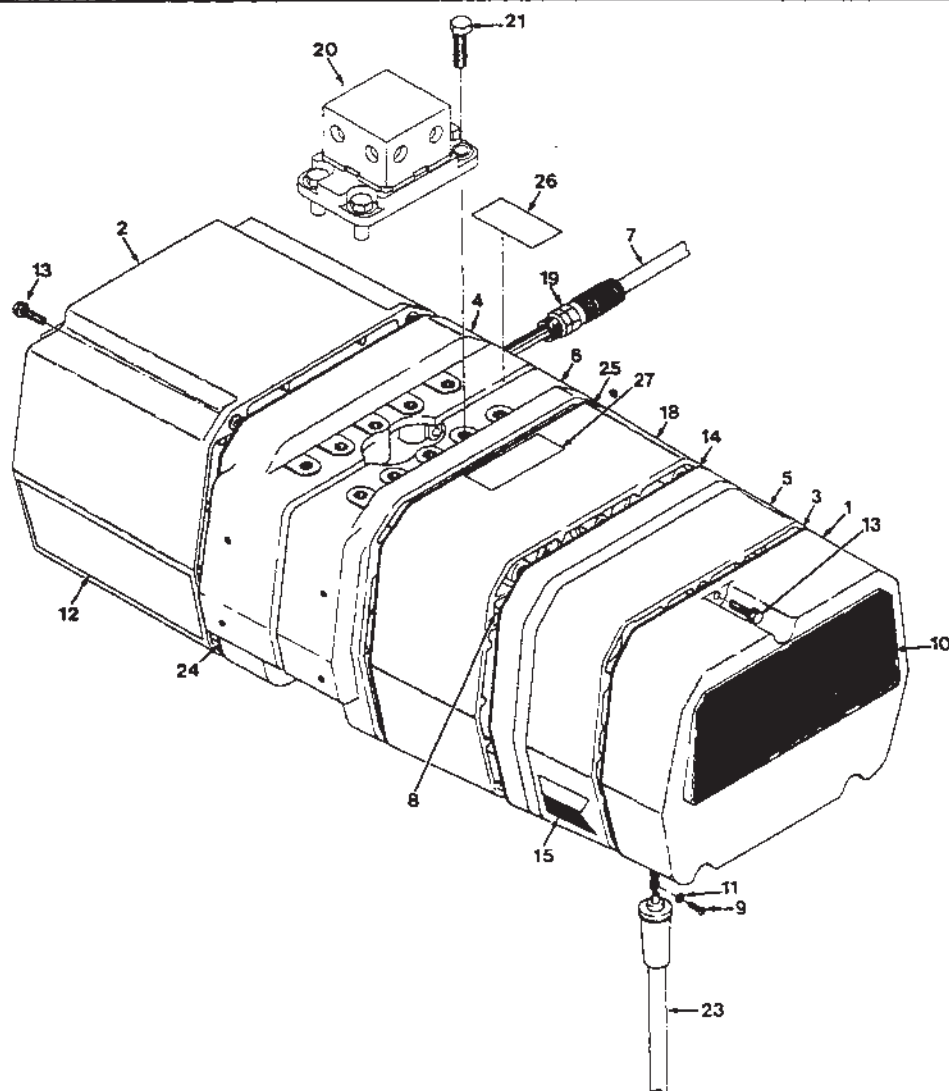


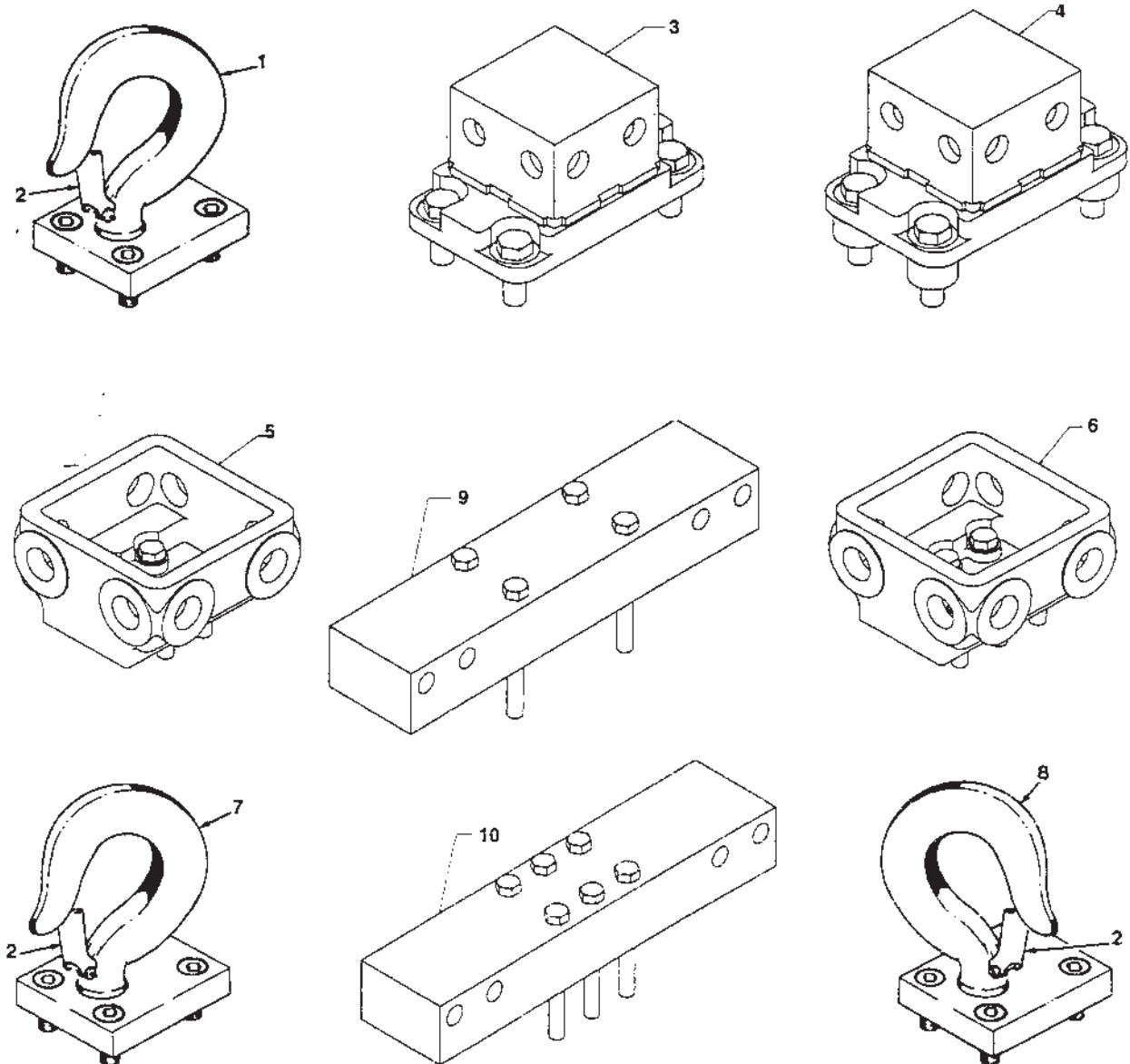
FIGURE 8-1. BASIC HOIST



Index No.	Part No.	Part Name
1	36J4	Brake Cover
2	36J3	Control Cover
3	560J2	Gasket, Brake Cover
4	33J13	Sheave Housing, Motor Side
	33J11	1, (2, 3, & 4 ton)
	33J11	(5 ton)
5	34J2	Transmission Cover
6	37J6	Sheave Housing, Transmission Side
	37J5	(1, 2, 3, & 4 ton)
	37J5	(5 ton)
7	H-6003	Power Cord
8	940J4	Wiring Harness (Single Speed)
	940J4-9	Wiring Harness (Two Speed)
9	H-2981-P	Screw
10	675J3B	Decal, Capacity (1 Ton)
	675J5	Decal, Capacity (2 Ton)
	675J6	Decal, Capacity (3 Ton)
	675J7	Decal, Capacity (4 Ton)
	675J8	Decal, Capacity (5 Ton)
11	H-4002-P	Plain Washer
12	677J2	Decal, Coffing
13	H-2987-P	Screw

Index No.	Part No.	Part Name
14	560J6	Gasket, Transmission Cover
15	676J2B	Decal, Coffing Hoists
16	679J2	Decal, Power Requirements (230/460V)
	679J3	Decal, Power Requirements (230V)
	679J4	Decal, Power Requirements (460V)
	679J5	Decal, Power Requirements (575V)
	679J6	Decal, Power Requirements (208V)
18	35J3	Transmission Housing
19	H-7961	Cord Grip
20		Suspension Assembly Kit
		(Reference—See figure 8-2)
21		Screw (Included in all suspension
		assy.) (Reference—See figure 8-2)
23		Push Button Cable
		(Reference—See figures 8-10A and
		8-10B)
24	560J3	Gasket, Control Cover
25	560K15	Gasket, Transmission Adapter
26	687J1	Decal
27	687K9	Decal (Used with 3 ⁵ / ₈ " suspension
		adapters)
	687K10	Decal (Used with 7" suspension adapters)

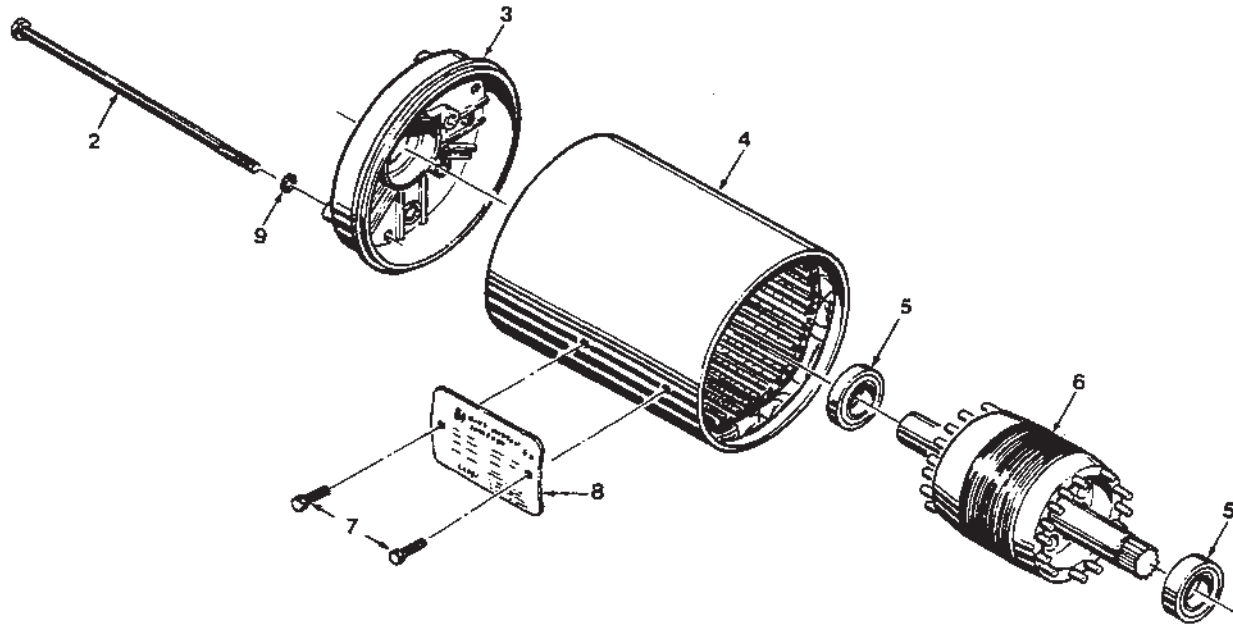
FIGURE 8-2. SUSPENSION ASSEMBLY KITS



Index No.	Part No.	Part Name
1	14J27	Swivel Hook Assembly, With Latch (1, 2, 3 & 4 Ton Models)
2	H-7545	Latch Kit
3	14J14	Trolley Lug Assembly (3 ⁵ / ₈ "), Plain and Geared Trolley—Parallel or Cross Mounted, Motorized Trolley—Parallel Mounted <u>ONLY</u> , (1, 2 & 3 Ton Models)
4	14J15	Trolley Lug Assembly (3 ⁵ / ₈ "), Motorized Trolley—Cross Mounted (1, 2 & 3 Ton Models)
5	14J16	Lug Suspension (7")—For 4 Ton Lug Mounted Hoist <u>ONLY</u>
6	14J18	Lug Suspension (7")—For 5 Ton Lug Mounted Hoist <u>ONLY</u>
7	14J28	Rigid Hook Assembly, With Latch, Cross Mounted
8	14J29	Rigid Hook Assembly, With Latch, Parallel Mounted (Standard)
9	***	Load Bar 4-Ton (Standard on 8-Wheel Trolley, Cross Mounted)
10	***	Load Bar 5-Ton (Standard on 8-Wheel Trolley, Cross Mounted)

*** Consult Factory for Kit No.

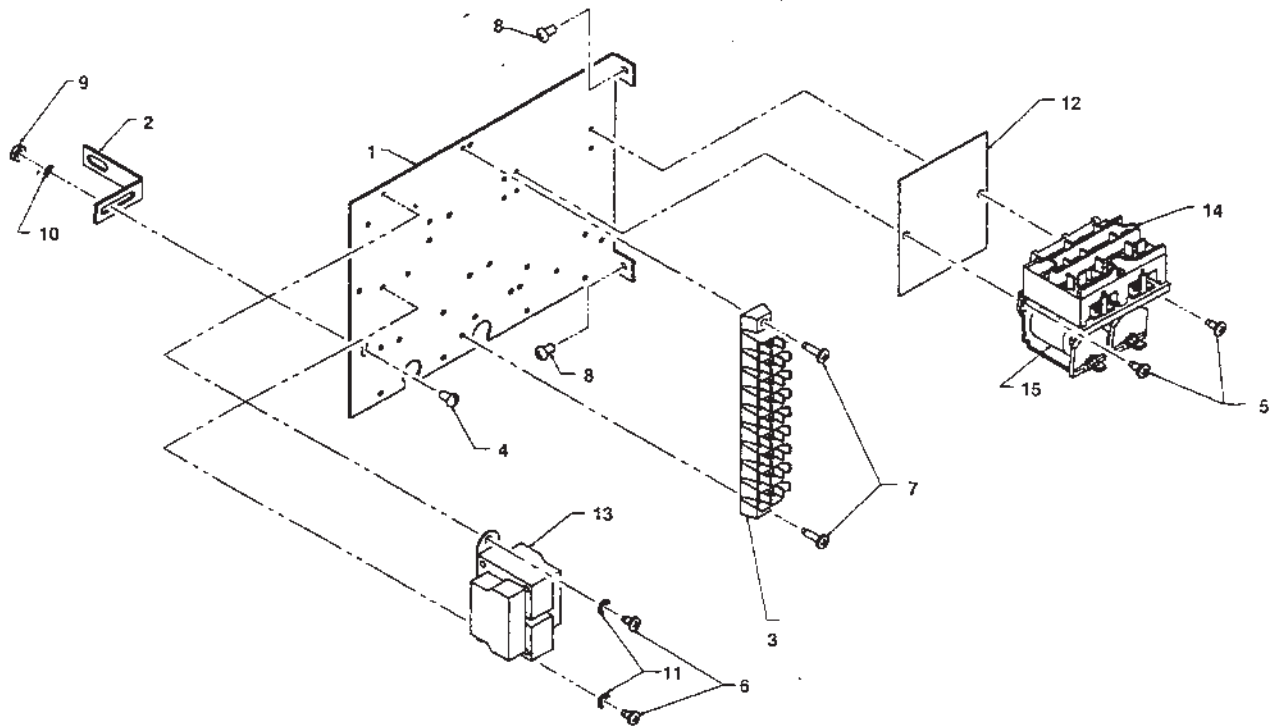
FIGURE 8-3. MOTOR PARTS



Index No.	Part No.	Part Name
1	863J401	2 HP Motor (230/460V)
	863J402	3 HP Motor (230/460V)
	863J403	2 HP Motor (575V)
	863J404	3 HP Motor (575V)
	863J405	2 HP Motor (208V)
	863J406	3 HP Motor (208V)
	873J401	2 HP Two-speed Motor (230V)
	873J402	3 HP Two-speed Motor (230V)
5	873J403	2 HP Two-speed Motor (460V)
	873J404	3 HP Two-speed Motor (460V)
	873J405	2 HP Two-speed Motor (575V)
	873J406	3 HP Two-speed Motor (575V)
	873J407	2 HP Two-speed Motor (208V)
	873J408	3 HP Two-speed Motor (208V)
	CB-504	Bearing

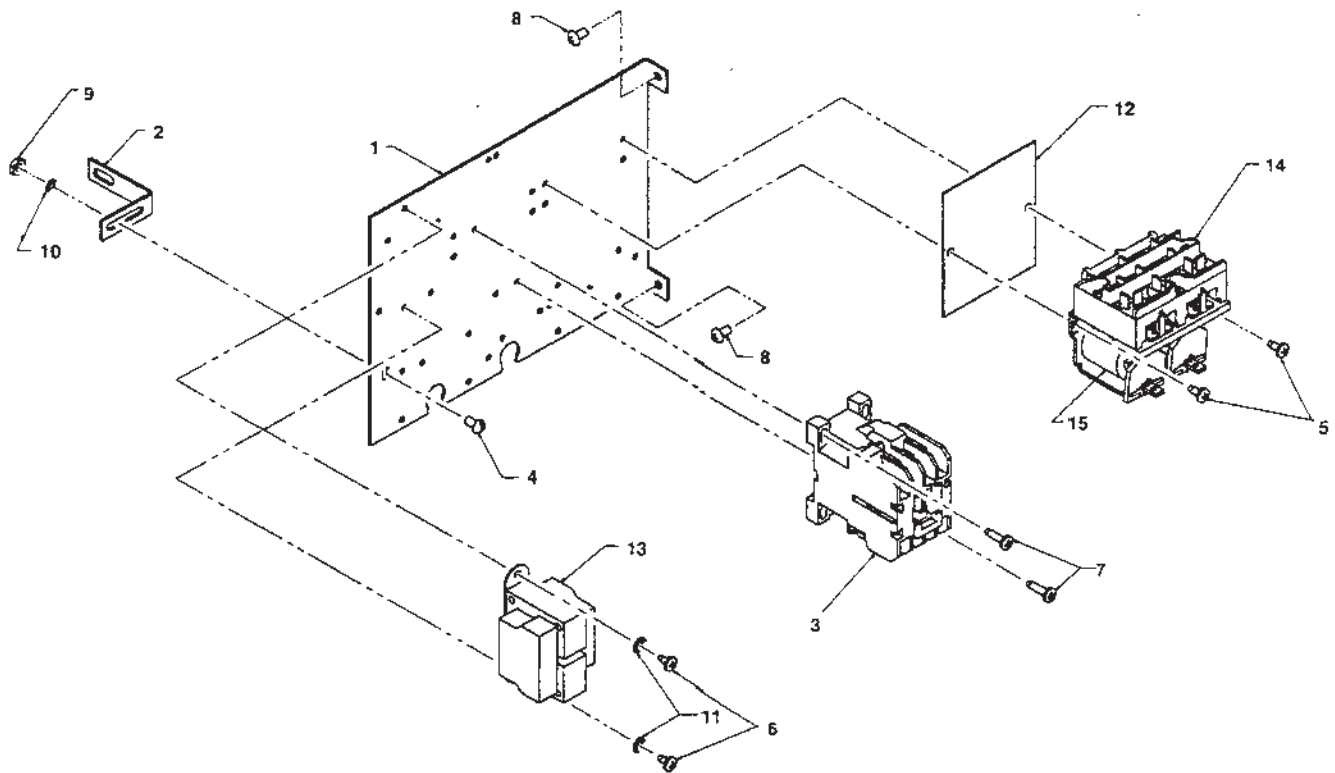
NOTE: For other motor parts or for replacement motor for Design Series "A" hoist (see Section 8-3), consult factory.

FIGURE 8-4A. CONTROLLER AREA (SINGLE SPEED HOIST)



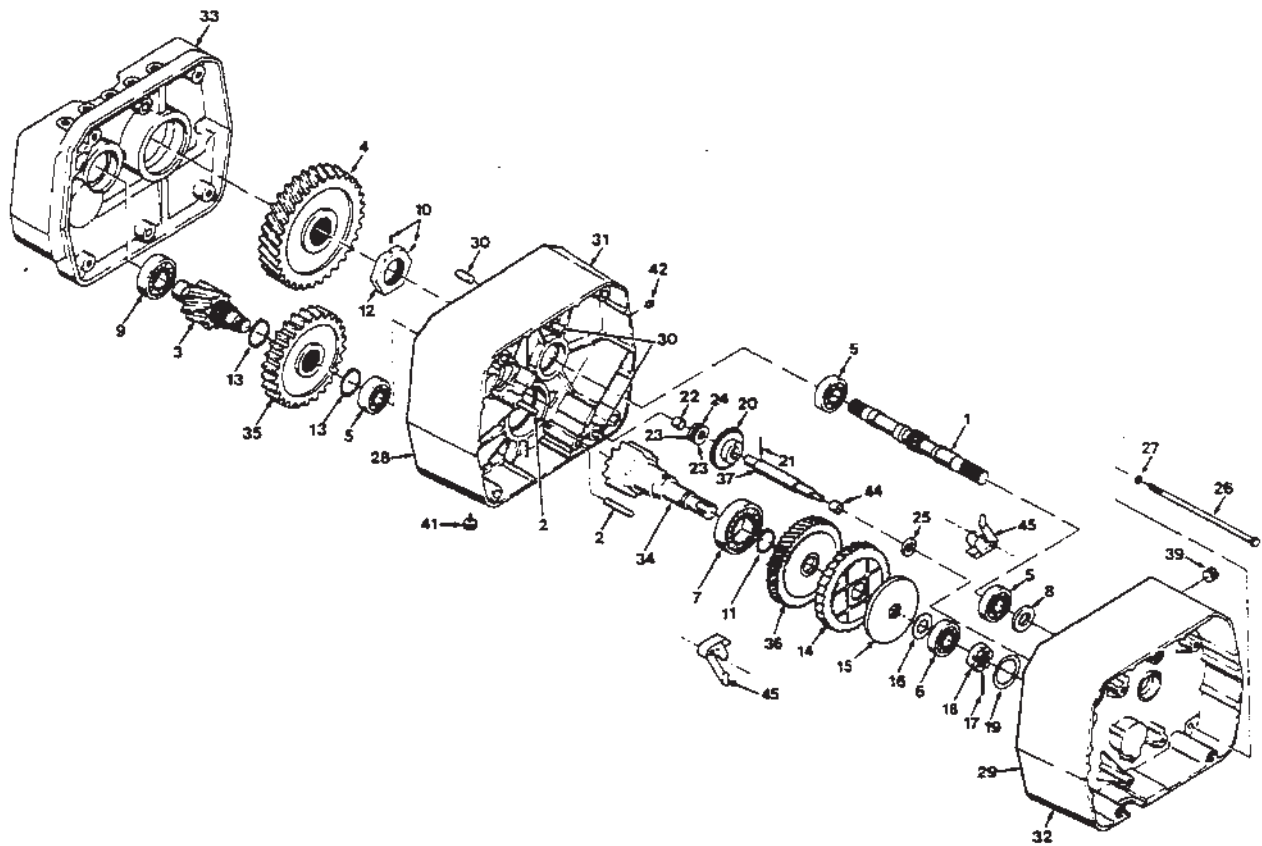
Index No.	Part No.	Part Name
1	257J1B	Panel Plate
2	285J7	Panel Retainer
3	909K9	Terminal Block (9 Position)
4	H1009P	Screw (10-24 x .375 Long)
5	H2742P	Screw Thread Forming (8-32 x .375 Long)
6	H2751	Screw Thread Forming (8-32 x .3125 Long)
7	H2752	Screw Thread Forming (8-32 x .625 Long)
8	H2981-P	Screw Thread Forming (10-24 x .380)
9	H3862	Hex Nut (10-24 UNC-2A)
10	H4082P	#10 Lockwasher
11	H4158	#8 Lockwasher
12	JF759-3	Insulator
13		Transformer: (Single Speed)
	JL821-272	Pri.: 208V, Sec.: 24V
	JL821-271	Pri.: 208V, Sec.: 115V
	JL821-232	Pri.: 230/460V, Sec.: 24V
	JL821-231	Pri.: 230/460V, Sec.: 115V
	JL821-252	Pri.: 575V, Sec.: 24V
	JL821-251	Pri.: 575V, Sec.: 115V
14	JL829-24	MSD Contactor (24V)
	JL829-115	MSD Contactor (115V)
15	JF37916-25	Coil (24V)
	JF37916-32	Coil (115V)

FIGURE 8-4B. CONTROLLER AREA (TWO SPEED HOIST)



Index No.	Part No.	Part Name
1	257J1B	Panel Plate
2	285J7	Panel Retainer
3	820J3	Speed Control Relay (24V)
	820J4	Speed Control Relay (115V)
4	H1009P	Screw (10-24 x .375 Long)
5	H2742P	Screw Thread Forming (8-32 x .375 Long)
6	H2751	Screw Thread Forming (8-32 x .3125 Long)
7	H2752	Screw Thread Forming (8-32 x .625 Long)
8	H2981-P	Screw Thread Forming (10-24 x .380)
9	H3862	Hex Nut (10-24 UNC-2A)
10	H4082P	#10 Lockwasher
11	H4158	#8 Lockwasher
12	JF759-3	Insulator
13		Transformer: (Two Speed)
	JL821-272	Pri.: 208V, Sec.: 24V
	JL821-271	Pri.: 208V, Sec.: 115V
	JL821-232	Pri.: 230V, Sec.: 24V
	JL821-231	Pri.: 230V, Sec.: 115V
	JL821-232	Pri.: 460V, Sec.: 24V
	JL821-231	Pri.: 460V, Sec.: 115V
	JL821-252	Pri.: 575V, Sec.: 24V
	JL821-251	Pri.: 575V, Sec.: 115V
14	JL829-24	MSD Contactor (24V)
	JL829-115	MSD Contactor (115V)
15	JF37916-25	Coil (24V)
	JF37916-32	Coil (115V)

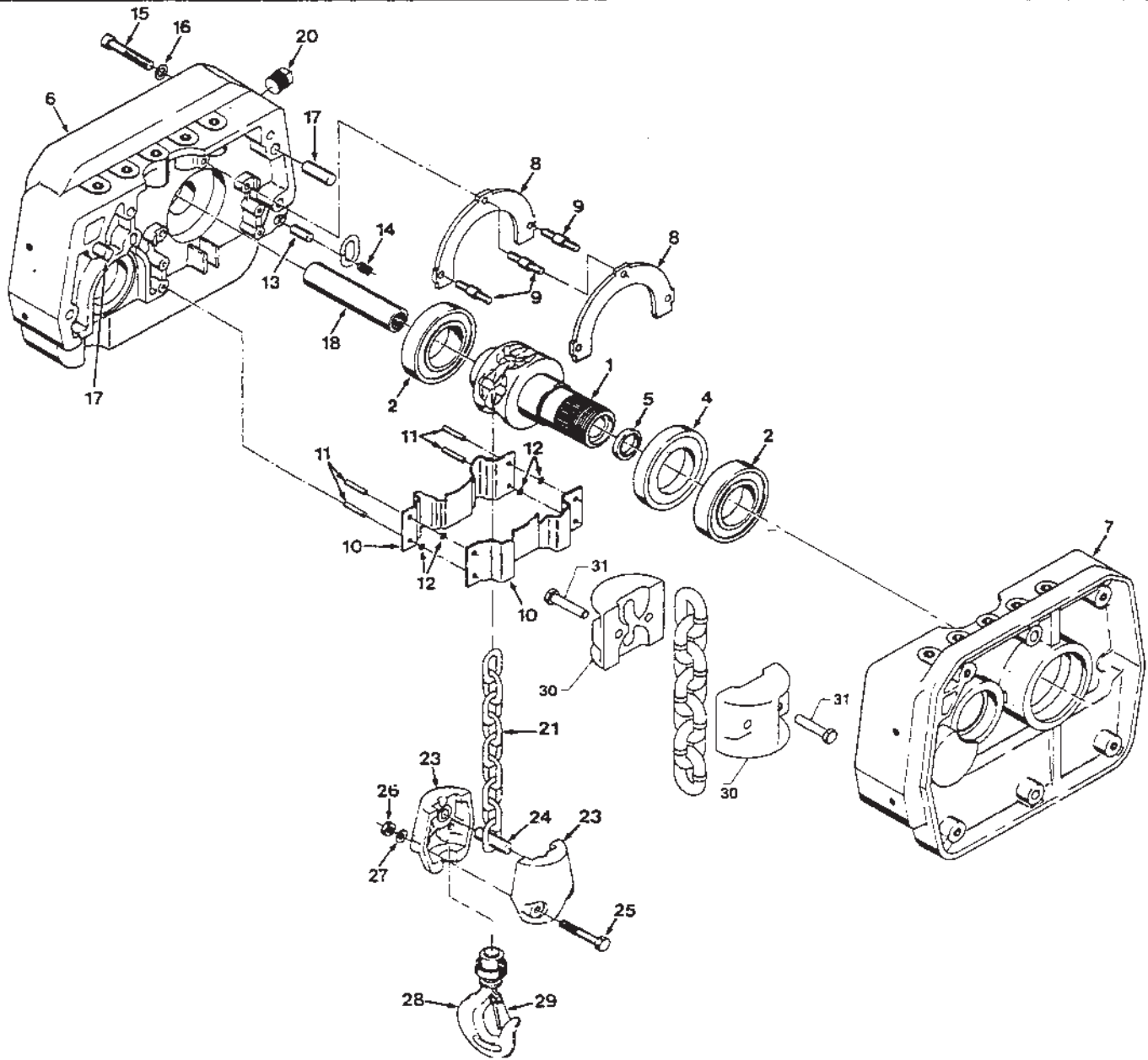
FIGURE 8-5. TRANSMISSION



Index No.	Part No.	Part Name
1	400J7	High Speed Pinion
2	H-5493	Dowel Pin
3	404J3	Output Pinion
4	405J1	Output Gear
5	500K13	Bearing
6	500K14	Bearing
7	500K15	Bearing
8	561K18	Seal
9	500K35	Bearing
10	H-2597	Setscrew
11	H-5539	Retaining Ring
12	130J7	Lock Nut
13	H-5540	Retaining Ring
14	7JG16-1	Ratchet Assembly
15	SJ9	Pressure Plate
16	255K11	Thrust Washer
17	H-5219	Driv-Lok Pin
18	130J8	Lock Nut (Load Brake)
19	H-7834	Spring Washer
20	428J1	Limit Switch Gear
21	H-5232	Spring Pin
22	530J24	Bushing
23	255J19	Thrust Washer
24	511J17	Thrust Bearing
25	561K17	Seal
26	H-2333	Bolt
27	H4157	Lock Washer
28	560K15	Transmission Adapter Gasket (Reference—See figure 8-1)
29	560J6	Transmission Cover Gasket (Reference—See figure 8-1)
30	H-5387	Dowel Pin

Index No.	Part No.	Part Name
31		Transmission Housing (Reference—See figure 8-1)
32		Transmission Cover (Reference—See figure 8-1)
33		Sheave Housing, Transmission Side (Reference—See figure 8-1)
34	402J6	Intermediate Pinion (Models EC4024, EC8012 & EC10008)
	402J7	Intermediate Pinion (Models EC4016, EC8008 & EC10005)
	402J8	Intermediate Pinion (Model EC6010)
	402J9	Intermediate Pinion (Models EC2032 & EC6016)
35	403K4	Intermediate Gear (Models EC4016, EC8008 & EC10005)
	403K5	Intermediate Gear (Models EC4024, EC8012 & EC10008)
	403J6	Intermediate Gear (Model EC6010)
	403J7	Intermediate Gear (Models EC2032 & EC6016)
36	591JG12	Load Equalizer Assembly (Models EC4024, EC6016, EC8012 & EC10008)
	591JG13	Load Equalizer Assembly (Models EC2032, EC4016, EC6010, EC8008 & EC10005)
37	140J1	Standard Limit Switch Drive Shaft
39	SK1912-21W	Relief Fitting
41	H-6268	Drain Plug
42	S-25-9	Level Plug
44	530J29	Bushing
45	25JG4-I	Pawl Assembly

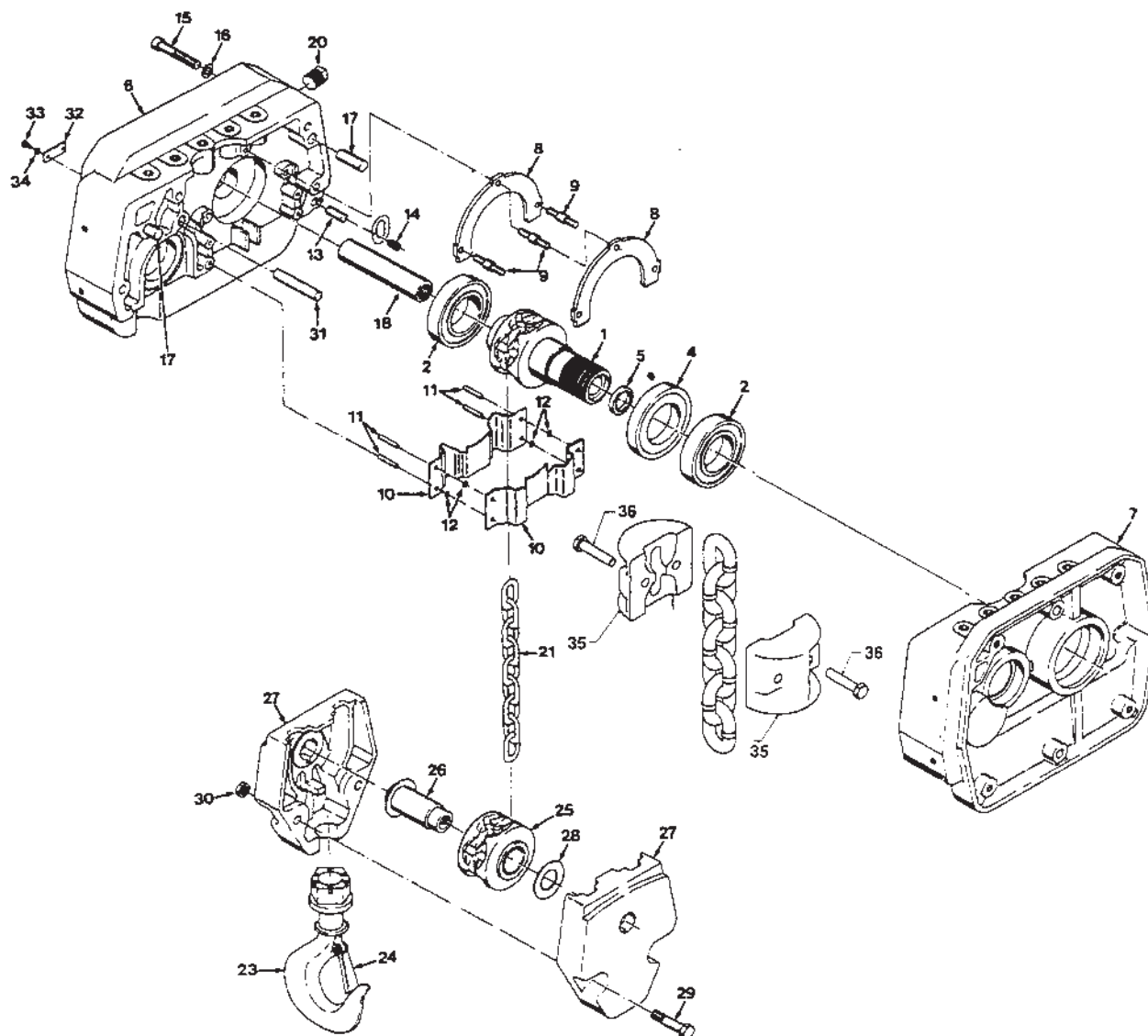
FIGURE 8-6A. CHAINING PARTS (SINGLE CHAIN)



Index No.	Part No.	Part Name
1	16J9	Load Sheave
2	500K12	Bearing
4	561K19	Seal
5	561K18	Seal
6		Sheave Housing, Motor Side (Reference—See figure 8-1)
7		Sheave Housing, Transmission Side (Reference—See figure 8-1)
8	272J6	Chain Guide Plate
9	127J3	Chain Guide Plate Spacer
10	254J3	Chain Guide
11	H-5393	Pin
12	X-6477-39	"O" Ring
13	H-5495-P	Tail End Pin
14	23J5	Spring
15	H-2219	Socket Head Cap Screw
16	H-4063-P	Lock Washer
17	H-5392	Dowel Pin

Index No.	Part No.	Part Name
18	107JG8-7	Drive Coupling
20	H-6286	Pipe Plug
21	19J3	Load Chain (Standard)
22	19J3Z	Load Chain (Plated)
23	913JG2	Bottom Block Assembly (Consists of index nos. 23 thru 29)
24	30J9	Load Block Frame
25	18J7	Pin
26	S-44-33	Screw
27	H-3978	Nut
28	H-4157	Lock Washer
29	3JG14S	Bottom Hook Assembly with Latch
30	H-7544	Latch Kit
31	75J8	7/16" End Stop Frame
32	H-2376	Screw
33	75JG8K	7/16" End Stop Kit (Contains index nos. 30 (2), 31 (2) and instruction sheet)

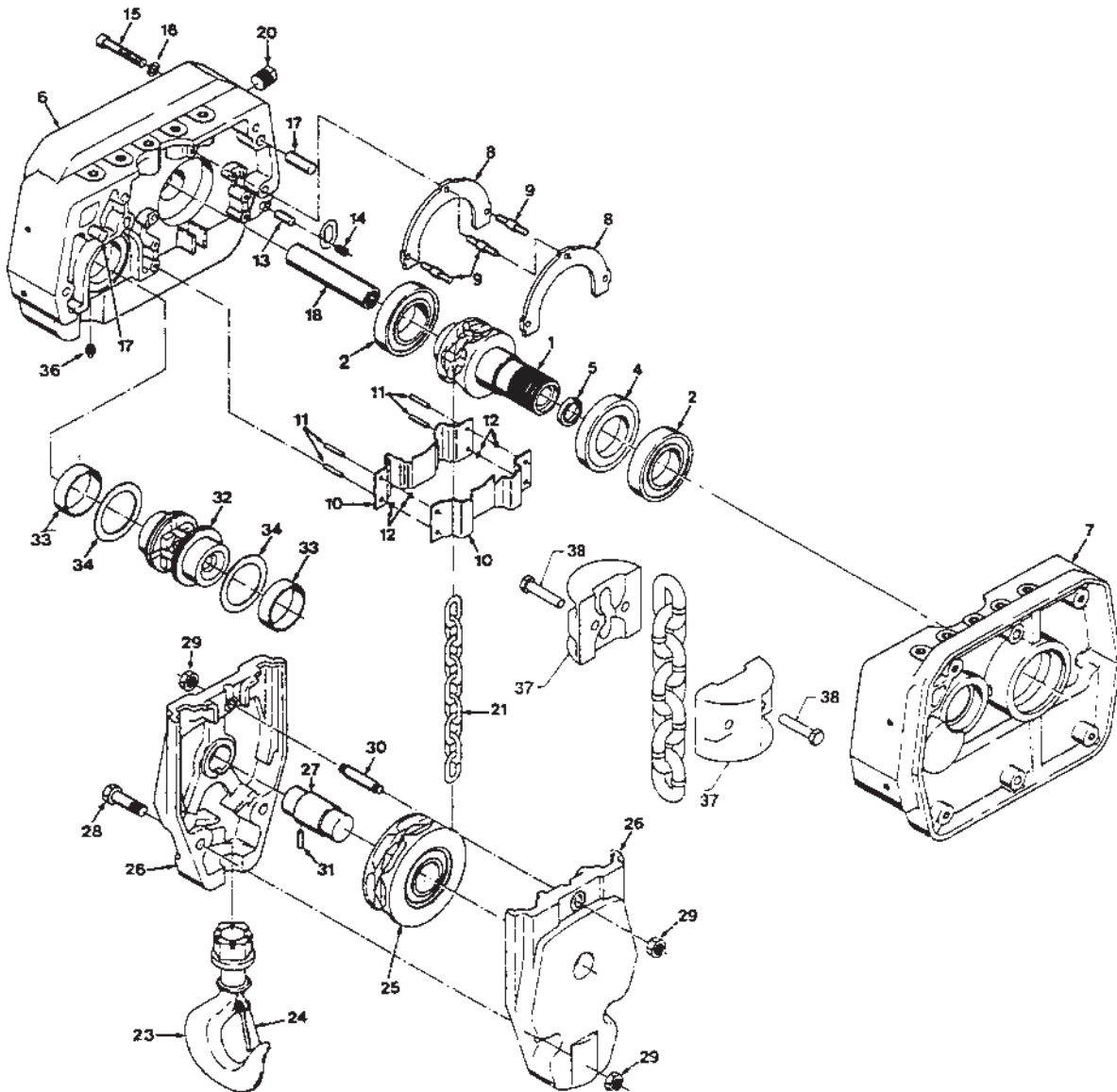
FIGURE 8-6B. CHAINING PARTS (DOUBLE CHAIN)



Index No.	Part No.	Part Name
1	16J9	Load Sheave
2	500K12	Bearing
4	561K19	Seal
5	561K18	Seal
6		Sheave Housing, Motor Side (Reference—See figure 8-1)
7		Sheave Housing, Transmission Side (Reference—See figure 8-1)
8	272J6	Chain Guide Plate
9	127J3	Chain Guide Plate Spacer
10	254J3	Chain Guide
11	H-5393	Pin
12	X-6477-39	"O" Ring
13	H-5495-P	Tail End Pin
14	23J5	Spring
15	H-2219	Socket Head Cap Screw
16	H-4063-P	Lock Washer
17	H-5392	Dowel Pin
18	107JG8-7	Drive Coupling
20	H-6286	Pipe Plug
21	19J3	Load Chain (Standard)
	19J3Z	Load Chain (Plated)

Index No.	Part No.	Part Name
22	914JG13	Bottom Block Assembly (For 3 Ton Hoist) (Consists of index nos. 23 thru 30)
	914JG14	Bottom Block Assembly (For 4 Ton Hoists) (Consists of index nos. 23 thru 30)
23	3JG8S	Bottom Hook Assembly With Latch
24	H-7545	Latch Kit
25	28JG5	Chain Sprocket Assembly
26	122JG6	Sheave Pin Assembly
27	30J10	Load Block Frame (For 3 Ton Hoists)
	30J11	Load Block Frame (For 4 Ton Hoists)
28	255J24	Sheave Washer
29	H-2419-P	Hex Head Cap Screw
30	H-3966-P	Hex Nut
31	18J5	Dead End Pin
32	285J6	Dead End Pin Retainer
33	H-1009-P	Screw
34	H-4082-P	Lock Washer
35	75J8	7/16" End Stop Frame
36	H-2376	Screw
*	75JG8K	7/16" End Stop Kit (Contains index nos. 35 (2), 36 (2) and instruction sheet)

FIGURE 8-6C. CHAINING PARTS (TRIPLE CHAIN)

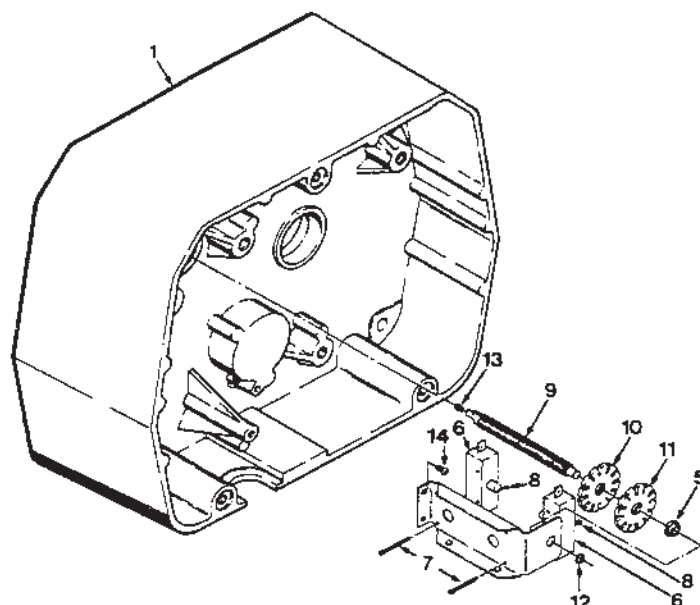


Index No.	Part No.	Part Name
1	16J9	Load Sheave
2	500K12	Bearing
4	561K19	Seal
5	561K18	Seal
6		Sheave Housing, Motor Side (Reference—See figure 8-1)
7		Sheave Housing, Transmission Side (Reference—See figure 8-1)
8	272J6	Chain Guide Plate
9	127J3	Chain Guide Plate Spacer
10	254J3	Chain Guide
11	H-5393	Pin
12	X-6477-39	"O" Ring
13	H-5495-P	Tail End Pin
14	23J5	Spring
15	H-2219	Socket Head Cap Screw
16	H-4063-P	Lock Washer
17	H-5392	Dowel Pin
18	107JG8-7	Drive Coupling
20	H-6286	Pipe Plug
21	19J3	Load Chain (Standard)

Index No.	Part No.	Part Name
	19J3Z	Load Chain (Plated)
22	914JG12	Bottom Block Assembly (Consists of index nos. 23 thru 31)
23	CB-912-14	Bottom Hook Assembly With Latch
24	H-7545	Latch Kit
25	28JG6	Chain Sprocket Assembly
26	30J12	Load Block Frame
27	122J7	Sheave Pin
28	H-2419-P	Hex Head Cap Screw
29	H-3966-P	Hex Nut
30	18J6	Dead End Pin
31	H-5210	Driv-Lok Pin
32	28J4	Idler Sheave
33	550J10	Idler Sheave Bushing
34	255J23	Thrust Washer
36	SK-974-32	Grease Fitting
37	75J8	7/16" End Stop Frame
38	H-2376	Screw
*	75JG8K	7/16" End Stop Kit (Contains index nos. 37 (2), 38 (2) and instruction sheet)

**FIGURE 8-7A. STANDARD LIMIT SWITCH PARTS
USED ON STANDARD LIFT HOISTS**

Index No.	Part No.	Part Name
1		Transmission Cover (Reference—See figure 8-1)
2	918JG4	Limit Switch and Shaft Assembly (Consists of index nos. 3 thru 12)
3	918JG3	Limit Switch Assembly (Consists of index nos. 4 thru 8)
4	JF-900-3	Limit Switch Bracket Assembly (Includes index no. 5)
5	JF-531-4	Limit Switch Bushing
6	815J1	Microswitch, Limit
7	H-1402-P	Screw
8	H-3944	Nut
9	JF-117-3S	Limit Switch Shaft (Stainless Steel)
10	SK6000-63Z	Limit Switch Nut (Zinc/Silver)
11	SK6000-63W	Limit Switch Nut (Brass/Gold)
12	H-5520	Retaining Ring
13	JF-343-3	Spring
14	H-2981-P	Screw



**FIGURE 8-7B. GEARED LIMIT SWITCH PARTS
USED ON LONG LIFT HOISTS**

Index No.	Part No.	Part Name
1	944JG6	Long Lift Limit Switch Assembly (all items except No. 19)
2	129J1	Mounting Plate
3	255K16	Thrust Washer
4	PB-287	Spring
5	SK6000-63Z	Limit Switch Nut (Zinc/Silver)
6	SK6000-63W	Limit Switch Nut (Brass/Gold)
7	117JG2	Shaft and Gear Assembly
8	JF-531-4	Bushing
9	258J8	End Plate
10	H-4158	Lock Washer
11	H-2741-P	Screw
12	815J1	Switch
13	H-3944	Locknut
14	427J1	Drive Pinion
15	258JG7	Frame and Guide Assembly
16	H-1402-P	Screw
17	854823	Screw
18	H-5520	Retaining Ring
19	H-2981-P	Mounting Screw
20	H-1210	Flat Head Screw
21	110J14	Post

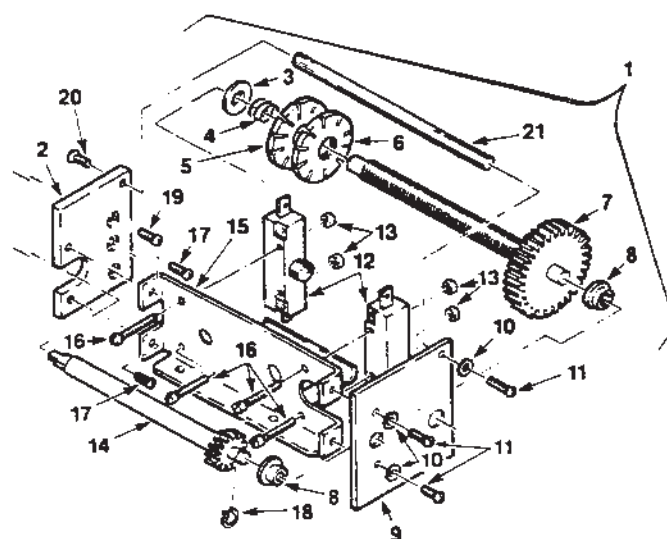
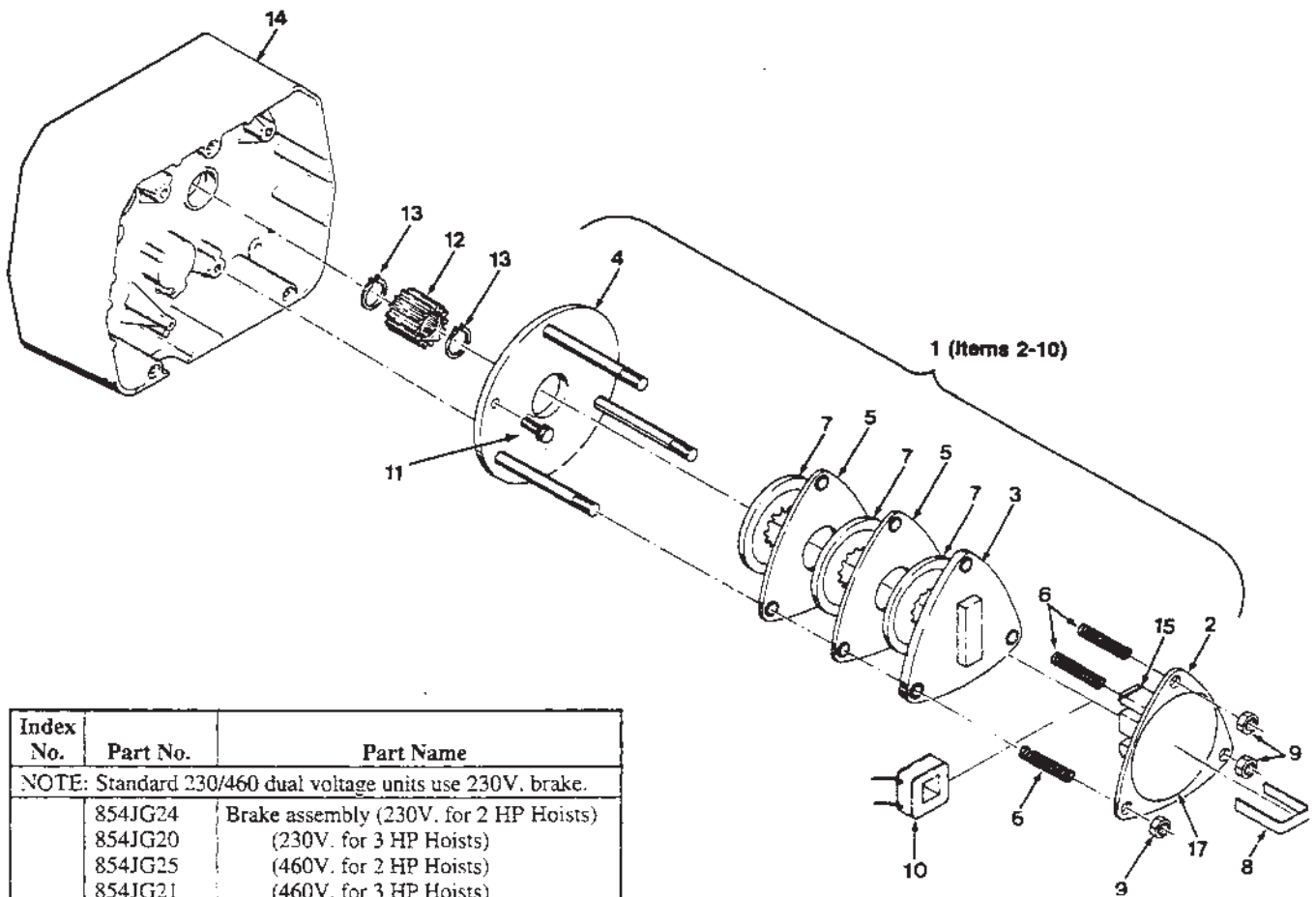
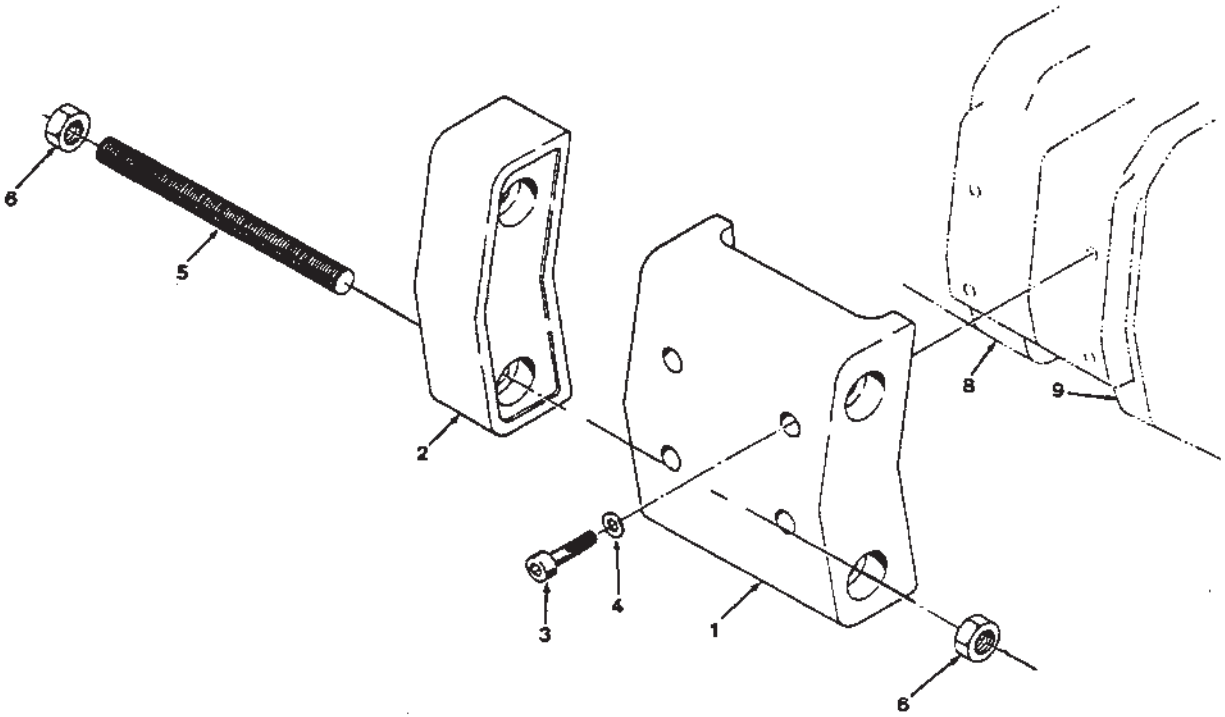


FIGURE 8-8. MOTOR BRAKE PARTS



Index No.	Part No.	Part Name
NOTE: Standard 230/460 dual voltage units use 230V. brake.		
	854JG24	Brake assembly (230V. for 2 HP Hoists)
	854JG20	(230V. for 3 HP Hoists)
	854JG25	(460V. for 2 HP Hoists)
	854JG21	(460V. for 3 HP Hoists)
	854JG26	(575V. for 2 HP Hoists)
	854JG22	(575V. for 3 HP Hoists)
	854JG27	(208V. for 2 HP Hoists)
	854JG23	(208V. for 3 HP Hoists)
2	291JG8	Plate and Frame Assembly
3	291JG9	Plate and Armature Assembly
4	290JG4	Plate and Stud Assembly
5	291J10	Plate
6	344J4	Spring
7	581JG2	Brake Disc Assembly
8	JF-710	Retainer
9	H-3978	Lock Nut
10	JF-853-2	Coil (230V. 60 Hz)
	JF-853-3	Coil (460V. 60 Hz)
	JF-853-4	Coil (575V. 60 Hz)
	JF-853-5	Coil (208V. 60 Hz)
11	H-2988-P	Screw
12	142J2	Brake Adapter
13	H-5527	Retaining Ring
14		Transmission Cover
		(Reference—See figure 8-1)
15	860J1	Shading Coil Element
		(Must be attached to frame with H-7812
		adhesive.)
16	H-7812	Adhesive (1-oz. tube)
17	676J1	Decal
18	H-4063-P	Lock Washer

FIGURE 8-9. COUNTERWEIGHTS

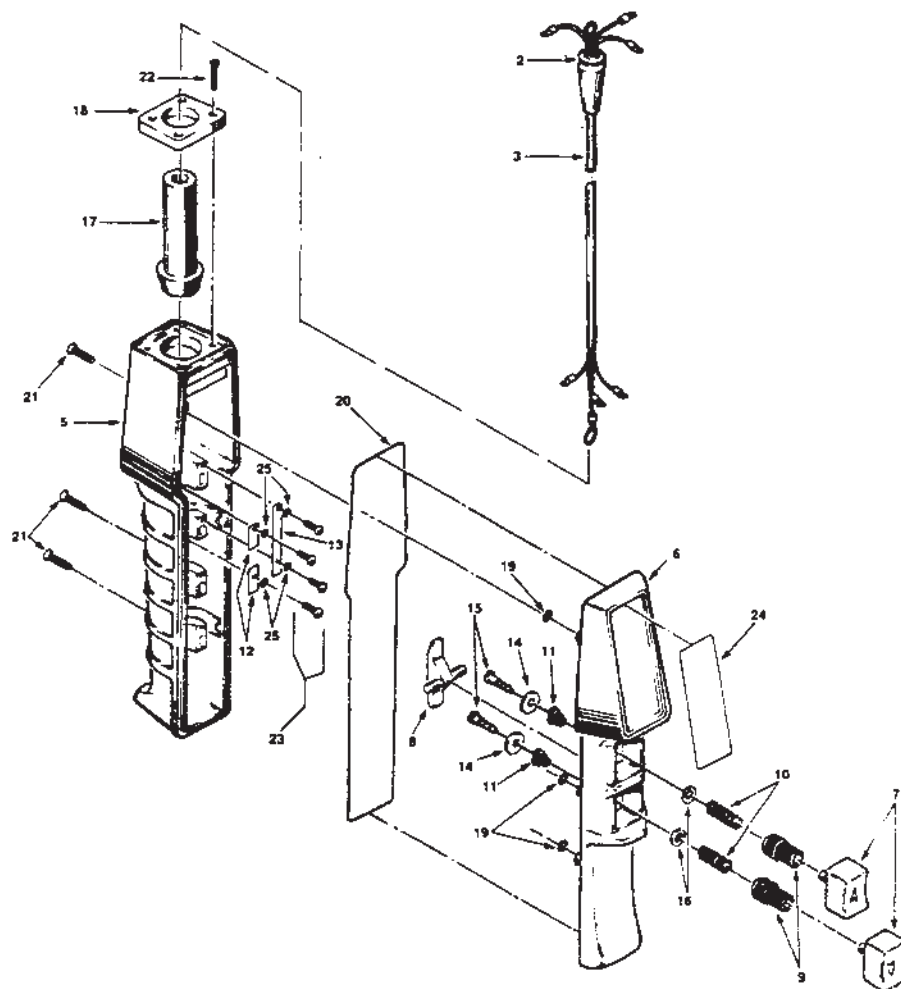


Index No.	Part No.	Part Name
1	5212	Counterweight (40 Lbs.)
2	5213	Counterweight (20 Lbs.)
3	S-49-22	Socket Head Cap Screw
4	H-4157	Lock Washer
5		Pin, Threaded
6	H-3947	Nut
8		Sheave Housing, Motor Side (Reference—See Figure 8-1)
9		Sheave Housing, Transmission Side (Reference—See Figure 8-1)
10*	12951	Counterweight Kit (40 Lbs.)
11*	12952	Counterweight Kit (60 Lbs.)
12*	12953	Counterweight Kit (80 Lbs.)
13*	12954	Counterweight Kit (100 Lbs.)
14*	12955	Counterweight Kit (120 Lbs.)
15*	12956	Counterweight Kit (140 Lbs.)
16*	12957	Counterweight Kit (160 Lbs.)
17*	12958	Counterweight Kit (180 Lbs.)
18*	12959	Counterweight Kit (200 Lbs.)
19*	12960	Counterweight Kit (220 Lbs.)

* Not shown

Kits include counterweights, threaded pins and hardware.

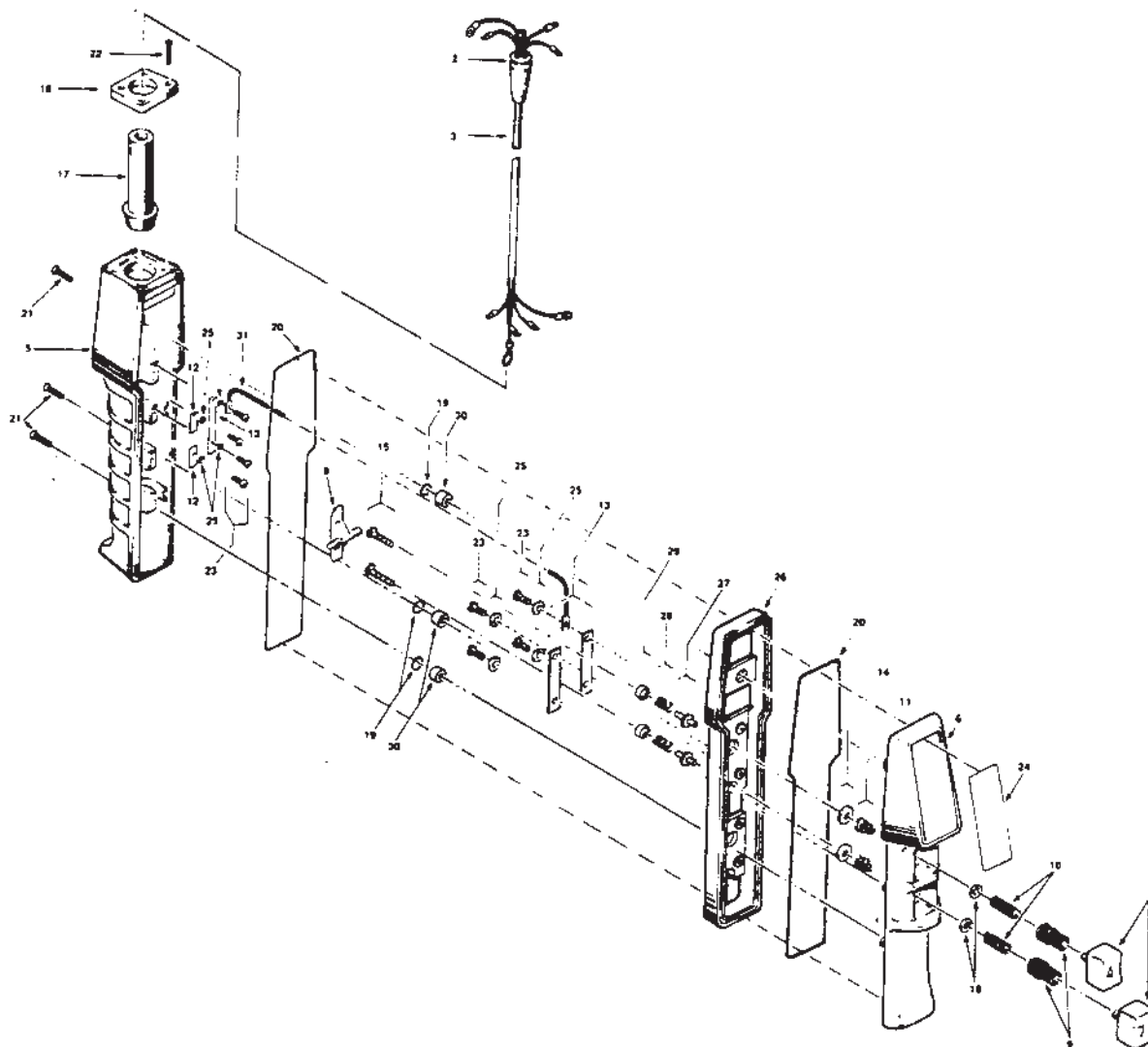
FIGURE 8-10A. PUSHBUTTON (SINGLE SPEED HOISTS)



Index No.	Part No.	Part Name
1		Pushbutton & Cable Assembly (Consists of index nos. 2 thru 25)
	PB-299-6B	6 ft. Cable Length
	PB-299-11B	11 ft. Cable Length
	PB-299-16B	16 ft. Cable Length
	PBS-299-*B	Special Drop (*Equal to P. B. Drop)
2	JF-761	Rubber Grommet
3		Pushbutton Cable Assembly:
	PB-299-6	6 ft. Cable Length
	PB-299-11	11 ft. Cable Length
	PB-299-16	16 ft. Cable Length
	PBS-299-*	Special Drop (*Equal to P.B. Drop)
4	534K97B	Pushbutton Assembly (Consists of index nos. 5 thru 25)
5	PB-282-4	Enclosure

Index No.	Part No.	Part Name
6	PB-298	Cover
7	PB-284-2	Pushbutton
8	PB-285	Interlock (Single Speed. Red)
9	PB-286	Boot
10	PB-287	Spring, Compression
11	PB-288	Spring, Conical
12	PB-289	Contact Plate
13	PB-290	Contact Plate, Common
14	PB-291	Washer, Contact
15	PB-301	Screw
16	PB-293	Washer, Boot
17	PB-294-1	Grommet
18	PB-295	Cap. Enclosure
19	X-6477-1	"O" Ring
20	H-7851	Rubber Seal
21	H-2991	Screw
22	H-2992	Screw
23	H-2993	Screw
24	PB-296	Warning Tag
25	H-4160	Lock Washer

FIGURE 8-10B. PUSHBUTTON (TWO SPEED HOISTS)



Index No.	Part No.	Part Name
		Pushbutton & Cable Assembly (Consists of index nos. 2 thru 30)
	534JG4-6	6 ft. Cable Length
	534JG4-11	11 ft. Cable Length
	534JG4-16	16 ft. Cable Length
	534JG4-*	special Drop (*Equal to P.B. Drop)
2	JF-761	Rubber Grommet
3		Pushbutton Cable Assembly:
	PB-300-6	6 ft. Cable Length
	PB-300-11	11 ft. Cable Length
	PB-300-16	16 ft. Cable Length
	PBS-300-*	Special Drop (* Equal to P.B. Drop)
4	534JG4	Pushbutton Assembly (Consists of index nos. 5 thru 31)
5	PB-282-4	Enclosure
6	PB-298	Cover
7	PB-284-2	Pushbutton
8	PB-285-1	Interlock (Two-Speed. Black)

Index No.	Part No.	Part Name
9	PB-286	Boot
10	PB-287	Spring, Compression
11	PB-288	Spring, Conical
12	PB-289	Contact Plate
13	PB-290	Contact Plate, Common
14	PB-291	Washer, Contact
15	H-1 852-P	Screw
16	PB-293	Washer, Boot
17	PB-294-2	Grommet
18	PB-295	Cap, Enclosure
19	X-6477-1	"O" Ring
20	H-7851	Rubber Seal
21	H-2925	Screw (Enclosure)
22	H-2992	Screw (Cap)
23	H-2993	Screw (Plates)
24	PB-296	Warning Tag
25	H-4160	Lock Washer
26	PB-308	2-Speed Adapter
27	755J1	Insulating Bushing
28	344J5	Spring, Lower
29	201J1	Contact Button
30	200J16	Bushing
31	JF-940-42	Jumper Wire