COFFING® HOISTS

OPERATING & MAINTENANCE INSTRUCTIONS WITH PARTS LIST

Publication Part No. ECMT-680-5





EC-1 Models - 1/4-3 Ton - Up to 1HP

EC-3 Models - 1-5 Ton - 2 & 3 HP

IMPORTANT—CAUTION

To safeguard against the possibility of personal injury or property damage, follow the recommendations and instructions of this manual. This manual contains important information for the correct installation, operation, and maintenance of this equipment. All persons involved in the installation, operation, and maintenance of this equipment should be thoroughly familiar with the contents of this manual. Keep this manual for reference and further use.

A WARNING

To prevent personal injury, do not use the equipment shown in this manual to lift, support, or otherwise transport people, or to suspend unattended loads over people.



TABLE OF CONTENTS

SECTION I	INTRODUCTION	
1-1	General	ŧ
1-2	Safety Standards	1
1-3	Warranty	1
SECTION II	INSTALLATION	
2-1	Safety Notes	1
2-2	Trolley Mounting	1
2-3	Power Supply Connection	1
SECTION III	OPERATION	
3-1		3
3-2	Safety Notes	3
3-3	Handling the Load	3
SECTION IV	INSPECTION	3
SECTION V	MAINTENANCE AND REPAIR	
5-1		3
5-2	Lubrication	2
SECTION VI		
6-1	Voltage Conversion	2
6-2	Wiring Diagrams	2
	ILLUSTRATED PARTS LIST	
7-1	General	7
7-2	How to Order Replacement Parts	7

SECTION I

INTRODUCTION

1-1. General Information

This manual provides information for the installation and maintenance of Coffing® MT Series Motorized Trolleys furnished with EC Series Electric Chain Hoists. The Illustrated Parts List shows all trolley parts. For unillustrated hoist parts, refer to the Operating and Maintenance Instructions for the hoist.

1-2. Safety Standards

Refer to the EC Hoist Operating and Maintenance Instructions for guidelines and applicable standards for safe hoist and trolley operation, as well as information on the proper application of this product.

1-3. Warranty

Every hoist is thoroughly inspected and tested prior to shipment from the factory. Should any problems develop, return the complete hoist prepaid to your nearest Duff-Norton Authorized Warranty Repair Station. If inspection reveals that the problem is caused by defective workmanship or materials, repairs will be made without charge and the hoist will be returned, transportation prepaid.

This warranty does not apply where: (1) deterioration is caused by normal wear, abuse, improper or inadequate power supply, eccentric or side loading, overloading, chemical or abrasive actions, improper maintenance or excessive heat; (2) problems resulted from repairs, modifications or alterations made by persons other than factory or Duff-Norton Authorized Warranty Repair Station personnel; (3) the hoist has been abused or damaged as a result of an accident; (4) repair parts or accessories other than those supplied by Duff-Norton are used on the hoist. Equipment and accessories not of the seller's manufacture are warranted only to the extent that they are warranted by the manufacturer. EXCEPT AS STATED HEREIN, DUFF-NORTON MAKES NO OTHER WARRANTIES, EX-PRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PAR-TICULAR PURPOSE.

SECTION II

INSTALLATION

2-1. Safety Notes

- Inspect the hoist and trolley for any evidence of shipping damage or loose parts.
- b. The beam and supporting structure should have a load rating at least equal to that of the hoist.
- c. All beams or tracks must have positive stops to prevent the trolley from running off the end.

2-2. Trolley Mounting

- a. For the best possible wheel and beam life, Coffing® Motorized Trolleys use different wheels for American Standard I-beams, Wide (flat) Flange beams and patented monorail track. Check that the trolley wheels match the contour of the beam flange.
- b. Standard Motorized Trolleys are adjustable for the flange widths of 3.33 to 6.00 inches (4.0 inch minimum on 4 or 5 ton models). Adjustment for I-beam sizes and tolerances is accomplished by locating the spacer washers as shown in Figure 2-1. Normal placement of washers is given in Table 2-1.
- c. The load pin nuts for trolleys require a tightening torque of 100 ft.-lbs. Refer to Figure 2-1 for nut identification.

d. Trolleys can be mounted on beam radii as small as 4 feet. Slightly increased spacing may be required when the trolley is mounted on curved beams to maintain freedom of movement.

BEAM MANUFACTURING TOLERANCES ALLOW WIDE VARIATIONS FROM HANDBOOK FLANGE WIDTHS. SLIGHT CHANGES TO RECOMMENDED WASHER DISTRIBUTION MAY BE NECESSARY TO SUIT SPECIFIC INSTALLATIONS.

The particular beam on which your hoist is to be installed should be measured and trolley spacer washers adjusted as required to achieve a wheel to beam flange clearance of $\frac{3}{32}$ " to $\frac{1}{8}$ ".

2-3. Power Supply Connection

- Disconnect and lock out power before making connections.
- Follow procedures under "Power Supply Connection" in the hoist Operating and Maintenance Instructions.
- c. When used, current collectors should be installed per the recommendations of the collector manufacturer. A collector mounting arm is available from Duff-Norton

which accepts most brands of collectors. This arm is vertically adjustable to accommodate most collectors and beam sizes.

2-4. Initial Lubrication

Lubricate trolley wheel gears with NLGI-2 or heavier grease.

TABLE 2-1. TROLLEY I-BEAM ADJUSTMENT DATA

			"T" Beam Size		47		
		6"	8"	10"	12"	15"	18"
1/4 to 3 Ton, Lug Mount (EC-1 Mod	els)						
Washers Between Hoist & Trolley	Thick	1	3	6	5	9	8
	Thin	0	1	0	4	0	5
Washers Outside Trolley	Thick	8	6	3	4	0	1
	Thin	5	4	5	I	5	0
1, 2 and 3 Ton, Box Mount (EC-3 M	fodels)			47			
Washers Between Hoist & Trolley	Thick	0	3	1	4	7	6
	Thin	1	0	8	5	3	8
Washers Outside Trolley	Thick	7	4	6	3	0	1
	Thin	8	9	1	4	6	1
4 and 5 Ton (EC-3 Models)						D.	•
Washers Between Hoist & Trolley	Thick		1	1	3	6	6
	Thin		0	4	3	1	4
Washers Outside Trolley	Thick		6	6	4	1	1
•	Thin		5	1	2	4	1

Maintain approx. 3/32" clearance at point "C"

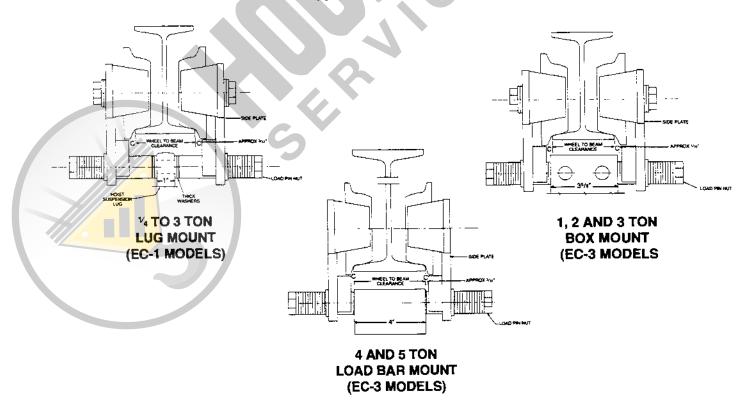


FIGURE 2-1. SPACER WASHER LOCATION: LUG MOUNTED HOISTS

SECTION III

OPERATION

3-1. This section offers guidelines for the proper operation of Coffing Motorized Trolleys used with electric hoists. It is not intended to serve as a handbook on rigging. For information on the safe use of slings and similar gear, users are urged to consult a textbook on rigging.

3-2. Safety Notes

- a. Inspect the trolley for any sign of loose, broken or malfunctioning parts. Any malfunctioning trolley should be tagged as "out of order" and removed from service until the defect is corrected.
- b. Be sure that beam end stops are in place.
- c. Before starting the trolley, the operator should be certain that all personnel are clear.
- d. Do not carry more than the rated load of the trolley.
- e. Avoid jogging controls or quick reversals of trolley.
- f. Do not carry people or loads over people.
- g. Do not leave a suspended load unattended.
- h. The operator should have a clear view of the load anytime it is moving and should be sure that the load

- does not contact any obstructions.
- Read ANSI B30.16 Safety Standard for Overhead Hoists.

3-3. Handling the Load

- Align hoist and trolley directly over the load. Avoid side pull or any action which causes trolley wheels to lift off one side of beam,
- Bring the hoist hook into engagement with the load and make sure it is well seated before proceeding to move the load.
- c. Lift the load just clear of its supports to check for proper brake operation, then proceed to lift the load to the height necessary to clear any objects over which the load must pass.
- d. Avoid letting load swing excessively while moving the trolley. Let the trolley coast to a stop instead of reverse plugging the trolley motor.
- e. Do not run the motorized trolley into beam end stops or other trolleys on the beam.

SECTION IV

INSPECTION

The trolley should be inspected for damage, loose parts, and excessive wheel wear at the same time as hoist inspec-

tion. See the hoist Operating and Maintenance Instructions for inspection schedule guidelines.



SECTION V

MAINTENANCE AND REPAIR

5-1. No routine maintenance of the trolley is required other than wheel gear lubrication.

5-2. Lubrication

- a. Trolley Wheel Gears—Lubricate at periodic inspection with an NLGI #2 or heavier grease.
- b. Trolley Gearbox—Periodic lubrication should not be necessary. If the gearbox is opened for repair, repack with an NLGI #1 grease.
- c. Trolley Wheel Bearings—Trolley wheel bearings are prelubricated and sealed. Bearings must be replaced if problems are indicated.

SECTION VI

WIRING

SAFETY NOTE

Disconnect power from unit before removing electrical covers.

6-1. Voltage Conversion

Standard single speed units use dual voltage motors (230/460 volt, 3 phase; 115/230 volt, single phase). Motorized trolley units are factory wired for a specified voltage. Reconnection to the alternate voltage requires resplicing

of leads in both the trolley and the hoist. See the appropriate wiring diagram for splice connections.

6-2. Wiring Diagrams

The wiring diagram for standard models are reproduced on the following pages. In addition, every hoist should have a wiring diagram located in either the trolley control box or the hoist long end cover.



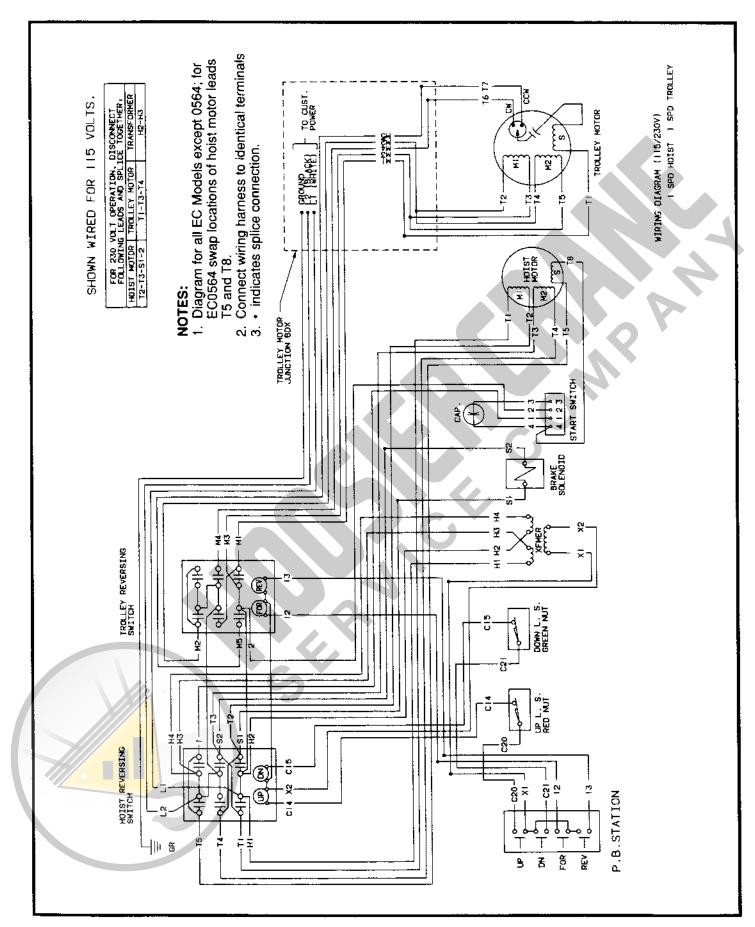


FIGURE 6-1. 981ECMT30 (SINGLE PHASE UNITS)

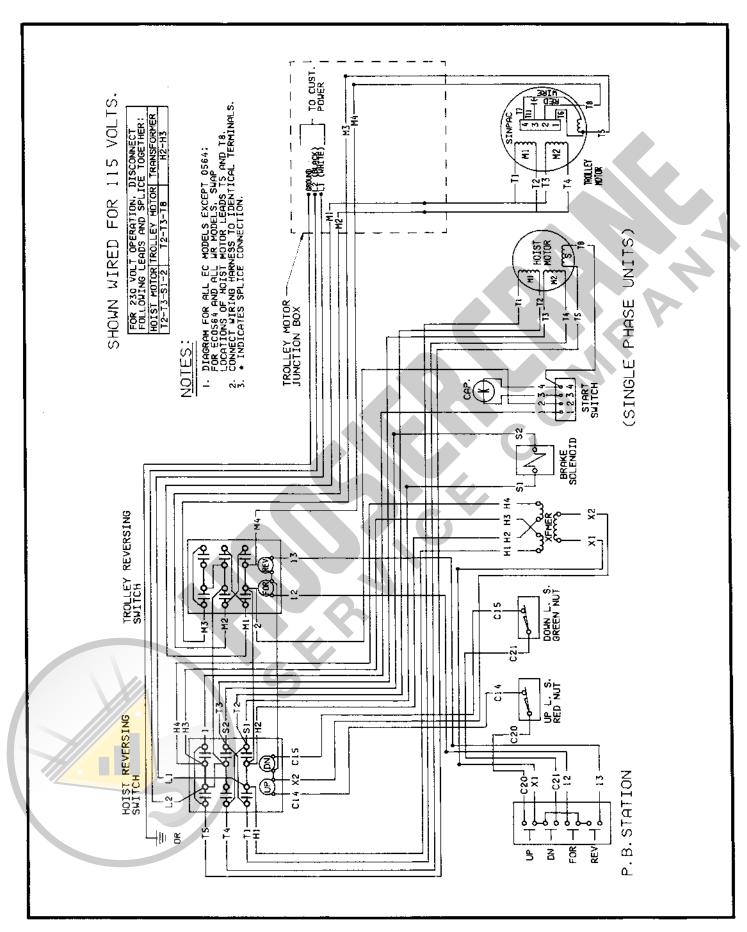


FIGURE 6-1A. 981 ECMT50 (SINGLE PHASE UNITS)

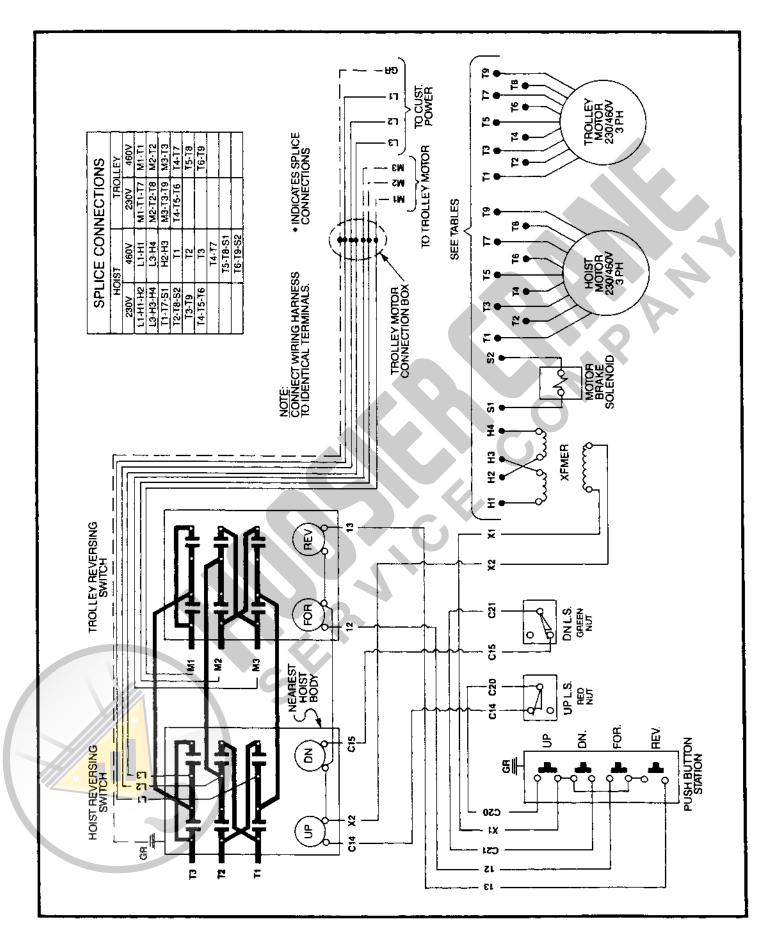


FIGURE 6-2. 983ECMT1 (3 PHASE SINGLE SPEED HOIST, SINGLE SPEED TROLLEY)

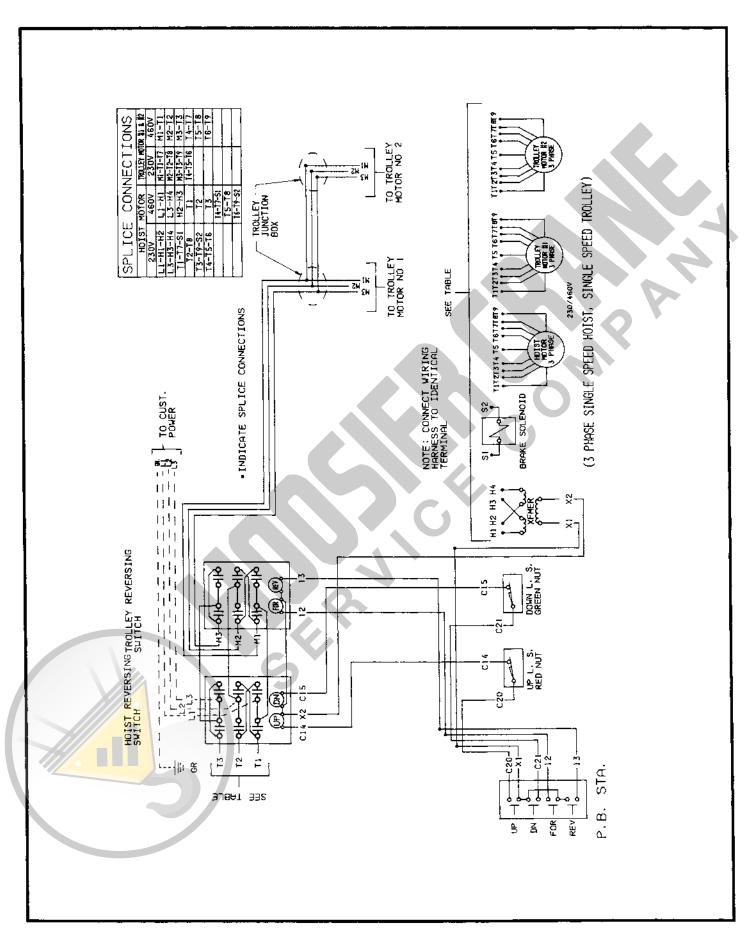


FIGURE 6-2A. 983 ECMT127 (EC-3 4 & 5 TON MODELS)
(3 PHASE SINGLE SPEED HOIST, SINGLE SPEED TROLLEY)

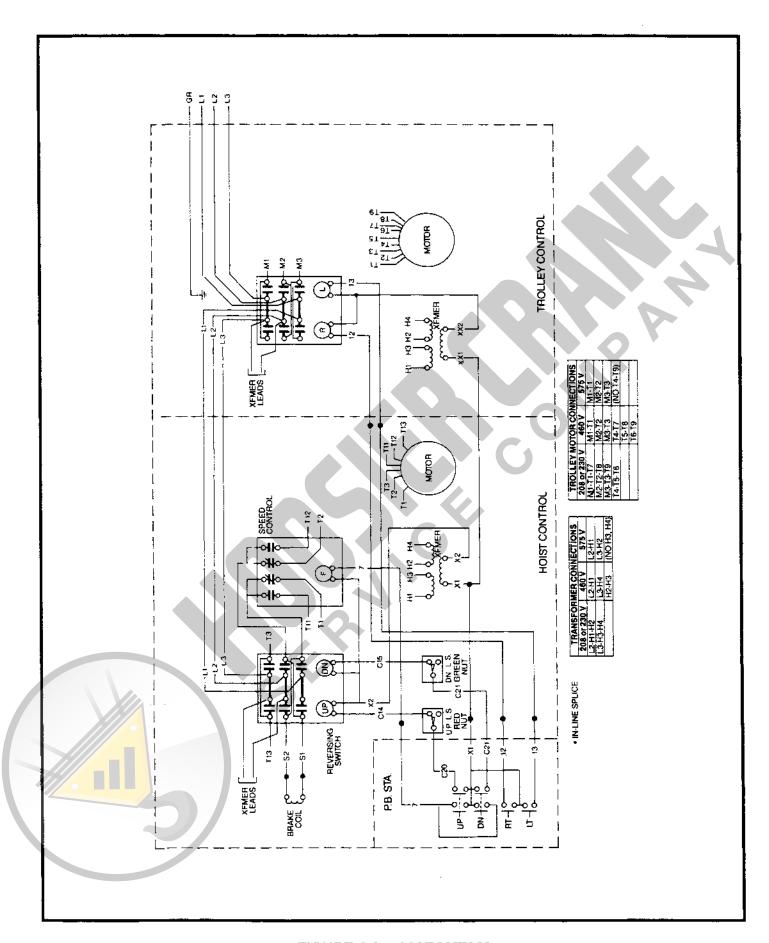


FIGURE 6-3. 983ECMT268 (2 SPEED HOIST, SINGLE SPEED TROLLEY)

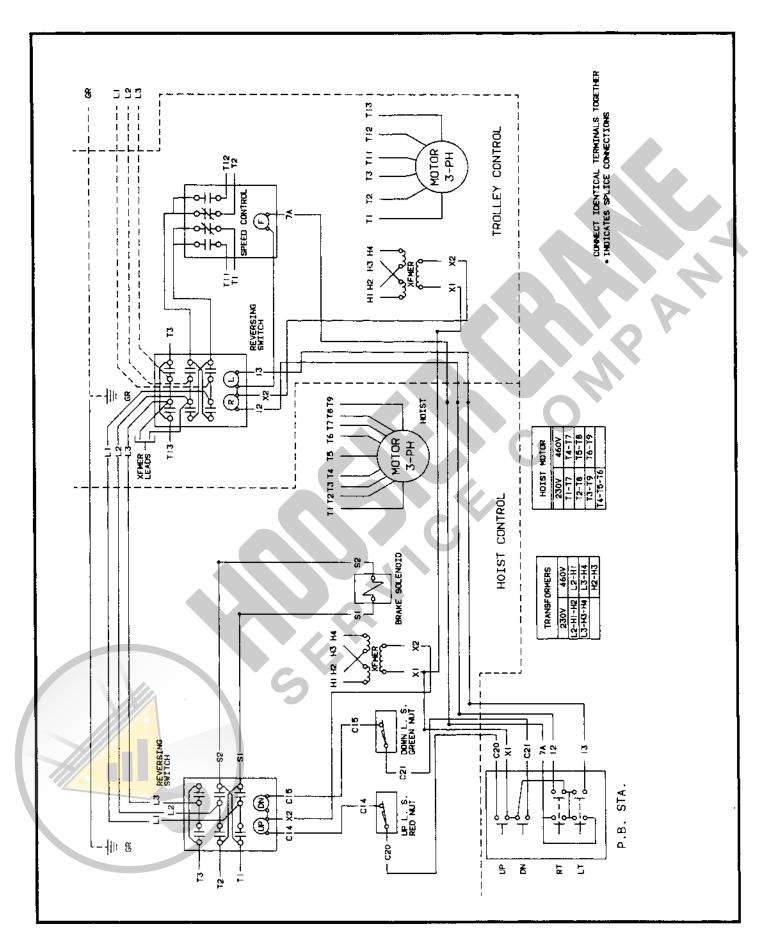


FIGURE 6-4. 983ECMT269A (SINGLE SPEED HOIST, TWO SPEED TROLLEY)

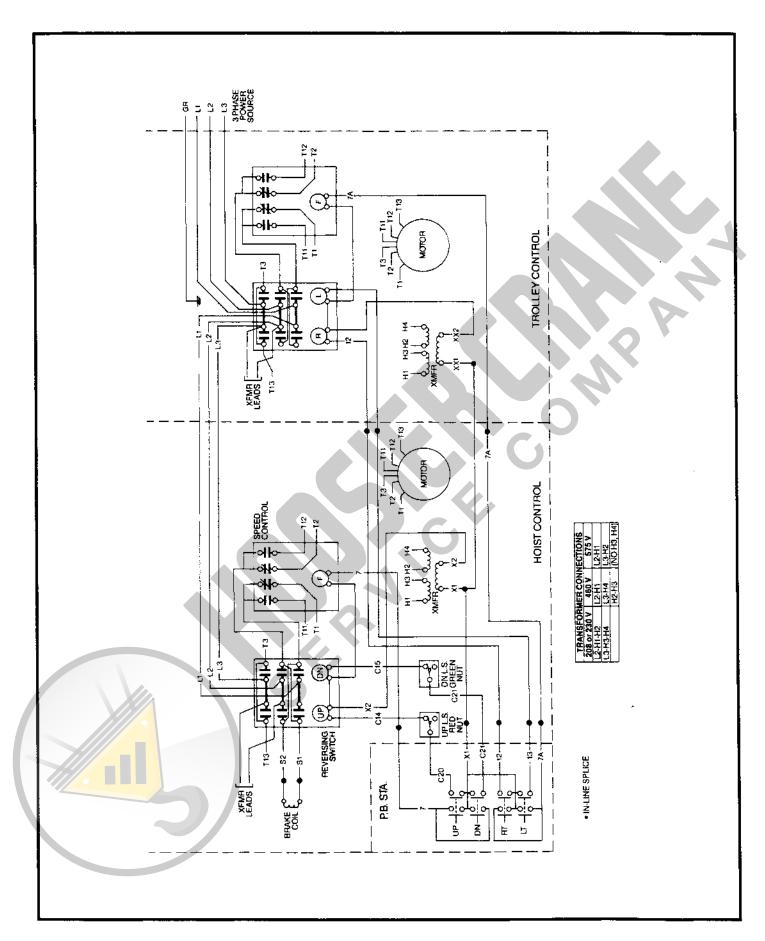


FIGURE 6-5. 983ECMT271 (TWO SPEED HOIST, TWO SPEED TROLLEY)

SECTION VII

ILLUSTRATED PARTS LIST

7-1. General

The following exploded drawings provide a complete list of parts used in standard Motorized Trolleys used with EC hoist models. Since a number of different hoist and trolley models are covered by this manual, differences may be noted between the appearance of your part and the reference illustration. Where more than one part is shown for a reference number, sufficient information to pick the correct part should be included in the part description. For hoist parts not shown in this manual, refer to the hoist's Operating and Maintenance Instructions.

7-2. How to Order Replacement Parts

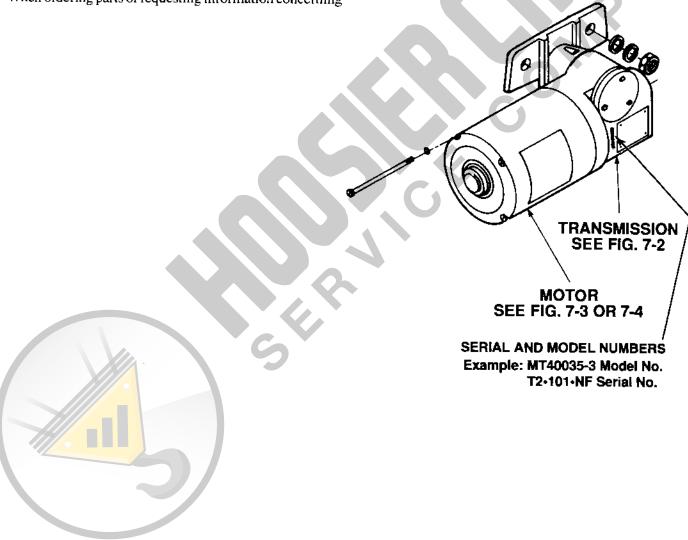
When ordering parts or requesting information concerning

your trolley or hoist, always include the model and serial numbers of hoist and trolley. The hoist and trolley will each have its own numbers stamped into its housing.

When ordering motor parts, please provide complete motor nameplate data, including motor manufacturer name and motor "ref." number or model number.

NOTE

Repair parts are available only from Coffing distributors or authorized repair facilities. It is recommended that repair part orders be directed to the authorized repair facility nearest you.



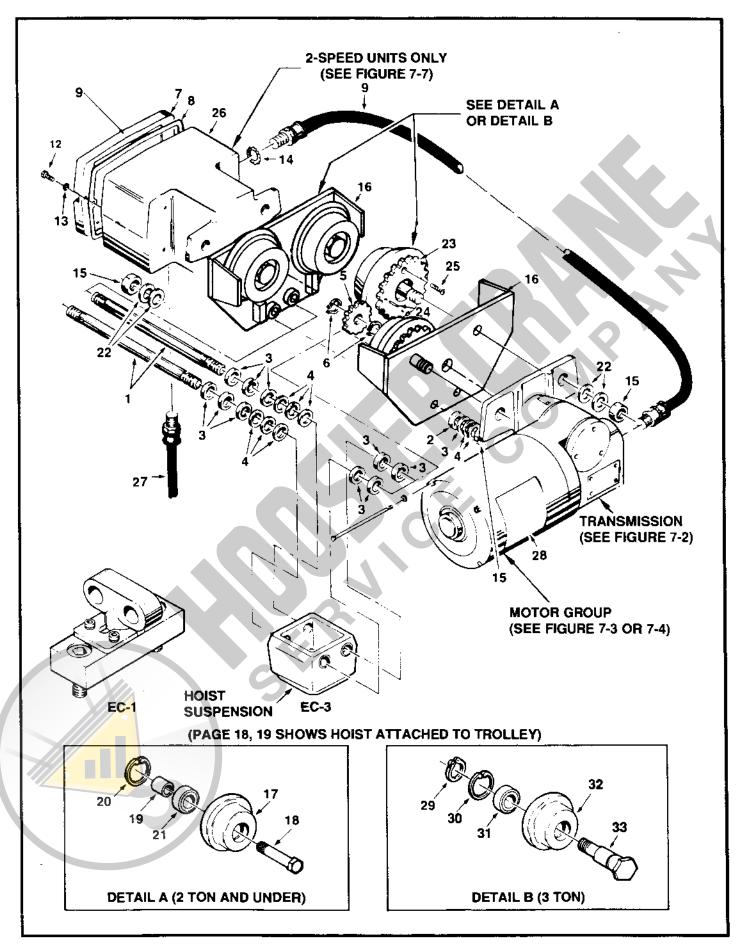


FIGURE 7-1. TROLLEY GENERAL ASSEMBLY (3 TON & UNDER)

Index		Part	Index		Part
No.	Part Name	No.	No.	Part Name	No.
1	Load Pin	103K1	17	Wheel:	
2	Washer (1/8" Thick)	H-4211		Plain	45K10
3	Washer (.135 Thick)	H-4209		Drive	45K1
4	Washer (.075 Thick)	H-4210	18	Axle	102K1
5	Pinion	420K1	19	Spacer	200K1
6	Retaining Ring	H-5501	20	Retaining Ring	H-5528
7	Cover, Control Box	36K3	21	Bearing	500K4
8	Gasket	560K4	22	Washer (1/8 Thick)	
9	Capacity Label:			2 Ton & Under	H-4211
	¹ /4 Ton	675 K 18		3 Ton	H-4212
	¹ /2 To n	675 K 19	23	Gear	420K2
	1 Ton	675K20	24	Dowel Pin	H-5331
	2 Ton	675K21	25	Screw	H-2165
	3 Ton	675K22	26	Control Box (If Used)	
10*	Splice Cap	H-7519		2 Ton and under	36K1
11*	Insulator, Splice Cap	H-7520		3 Ton	36K2
12	Screw	S-44-4	28	Decal	692K1
13	Lock Washer	H-4084-P	29	Retaining Ring	H-5529
15	Lock Washer		30	Retaining Ring	H-5530
	2 Ton & Under	H-3945	31	Bearing	500K5
	3 Ton	H-3946	32	Wheel:	
16**	Side Plate Weldment:			Plain	45 K 20
	1 & 2 Топ (EC-3 Models)	5KG4		Drive	45 K 2
	3 Ton (EC-3 Models)	5KG31	33	Axle	102K2
	2 Ton & Under (EC-1 Models)	5KG1			
	3 Ton (EC-1 Models)	5KG2			

FIGURE 7-1. TROLLEY GENERAL ASSEMBLY (3 TON & UNDER)



^{*} Not Illustrated

** Identify hoist and trolley model as an EC-1 or EC-3.

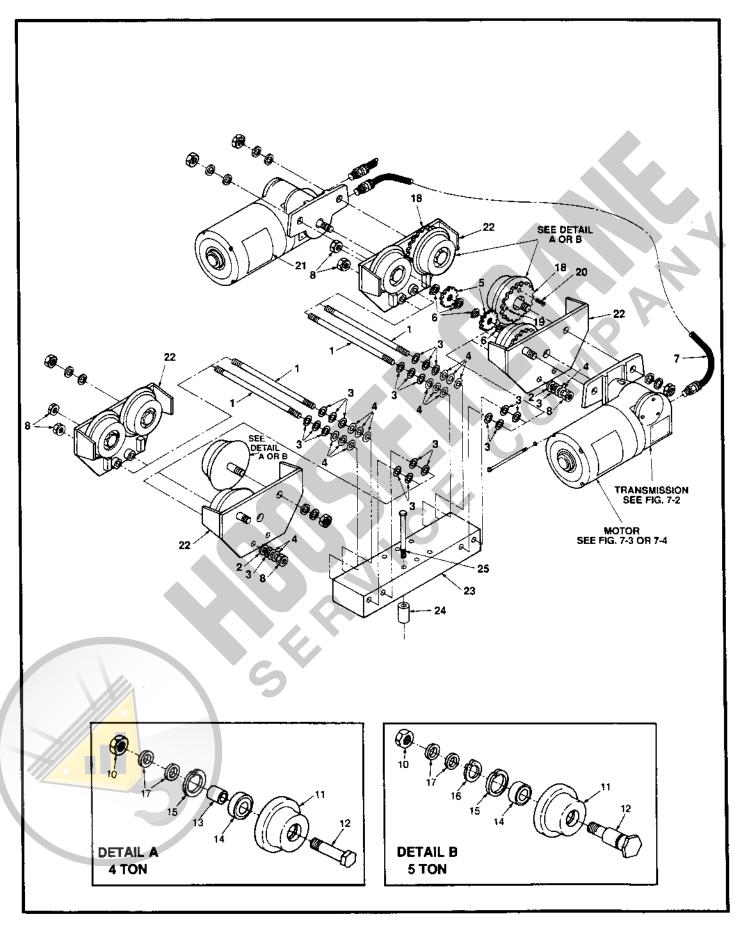


FIGURE 7-1A. TROLLEY GENERAL ASSEMBLY (EC-3 4 & 5 TON ONLY)

Index		Part
No.	Part Name	No.
1	Load Pin (up to 6"	
1	Flange Width)	103K1
2	Washer (1/2" Thick)	H4211
3	Washer (.135 Thick)	H4209
4	Washer (.025 Thick)	H4210
5	Pinion	420K1
6	Retainer Ring	H-5501
7	Tie Cable Assembly	
	Single Speed	955KG-6
	Two Speed	955KG9
8	Nut (Load Pin)	H-3945
9	Wheel Assembly (For	
	S-shaped I-Beam Only):	
ĺ	(Consist of Index	
1	No. 10 Thru 17)	
	4 Ton:	
	Geared Wheel Assembly	45KG2
	Plain Wheel Assembly	45KG1
	5 Ton:	
	Geared Wheel Assembly	45KG4
	Plain Wheel Assembly	45KG3
10	Nut Axle:	
	4 Ton	H-3945
	5 Ton	H-3946
11	Wheel (For S-Shape	
	I Beam Only):	
	4 Ton:	
	Geared Wheel (Gear	45K1
	Not Included)	
	Plain Wheel	45K10
	5 Ton:	
	Geared Wheel (Gear	
	Not included)	45K2
	Plain Wheel	45K20
12	Axle:	
	4 Ton	102K1
	5 Ton	102K2

Index No.	Part Name	Part No.
13	Spacer (4 Ton Only)	200K1
14	Bearing:	
	4 Ton	500K4
	5 Ton	500K5
15	Retainer Ring:	
	4 Ton	H-5528
	5 Ton	H-5530
16	Retaining Ring	H-5529
	(5 Ton Only)	
17	Washer:	
	4 Ton	H-4211
	5 Ton	H-4212
18	Gear	420K2
19	Pin	H-5331
20	Screw	H-2165
21	Decal:	67737
22	Side Plate	
	4 Ton	5KG4
	5 Ton	5KG31
23	Load Bar:	
	4 Ton	50K52
	5 Ton	50K51
24	Spacer	*127J9
1		**127J7
25	Bolt	*H-245!
		** H-2438
		112.33
	1)	
	1	
	}	
	\	

^{*} Motorized Trolley Models (4 & 5 Ton)

FIGURE 7-1A. TROLLEY GENERAL ASSEMBLY (4 & 5 TON ONLY)

^{**} Plain and Geared Trolley Models (4 & 5 tons)

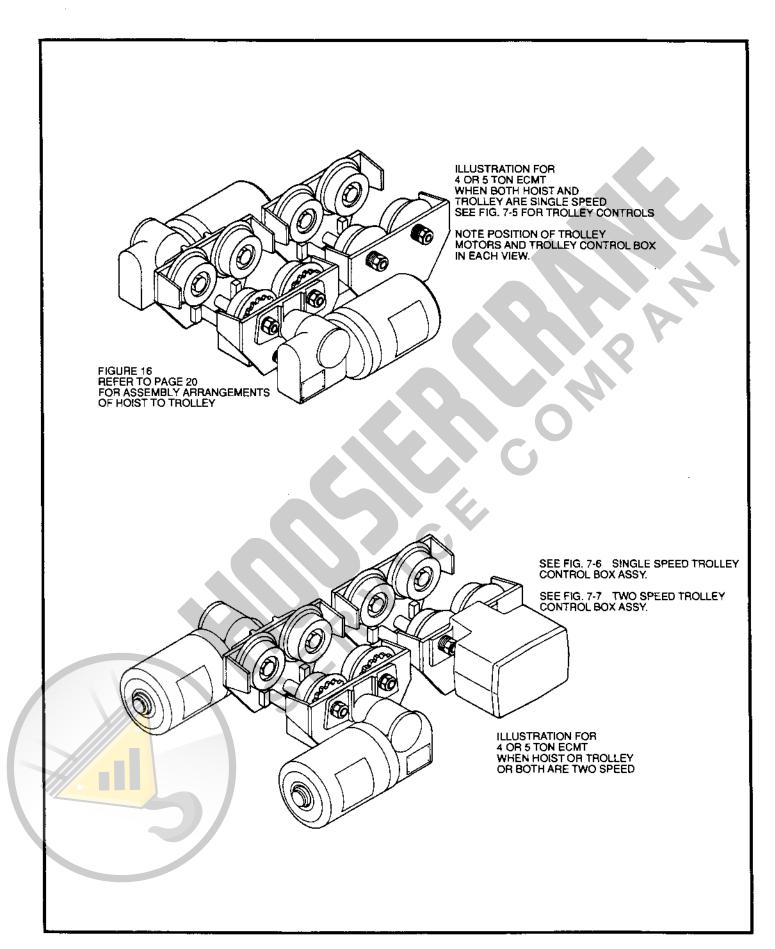
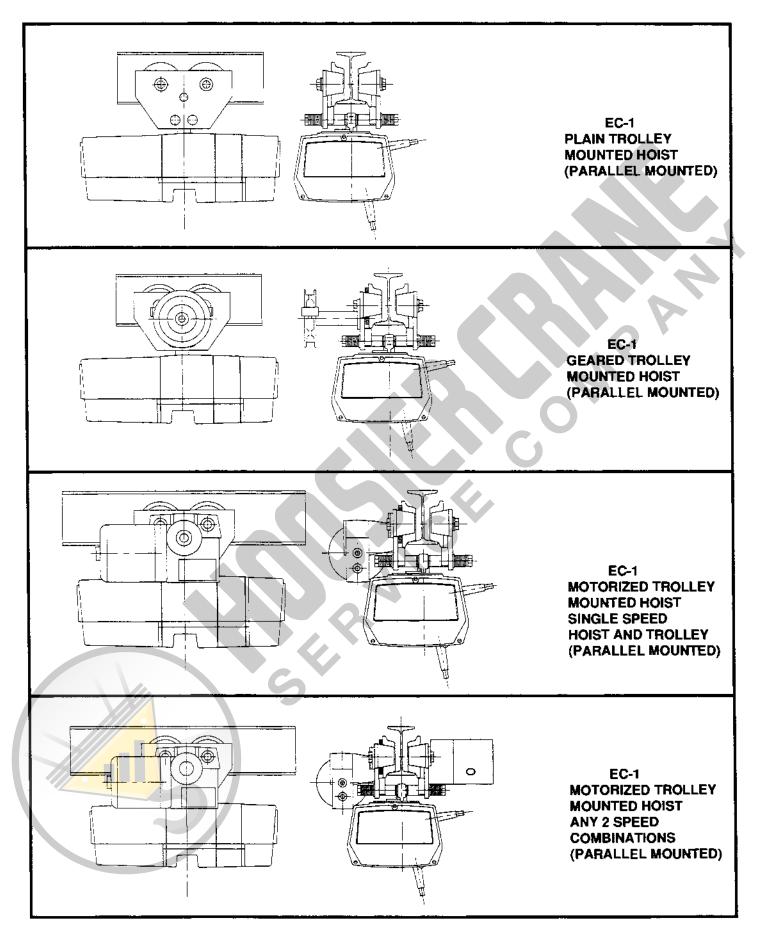
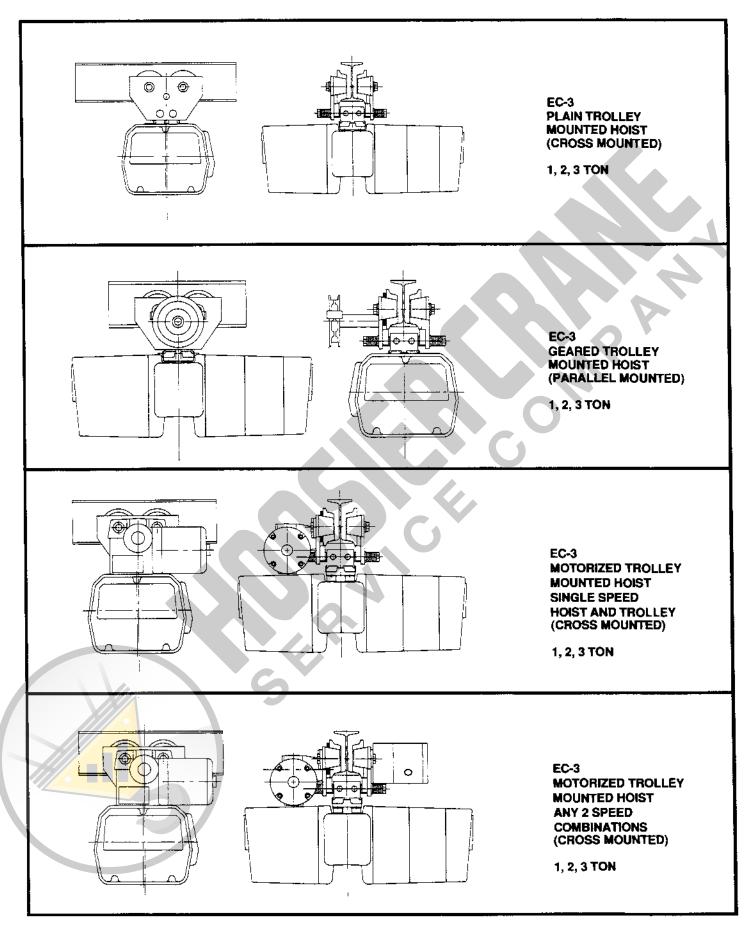


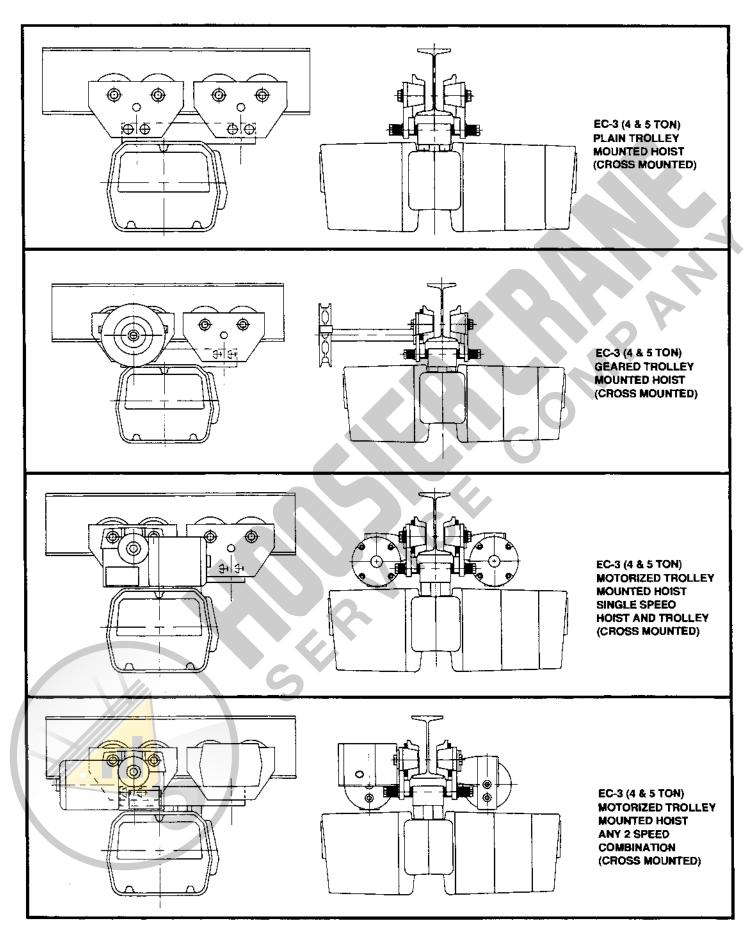
FIGURE 16



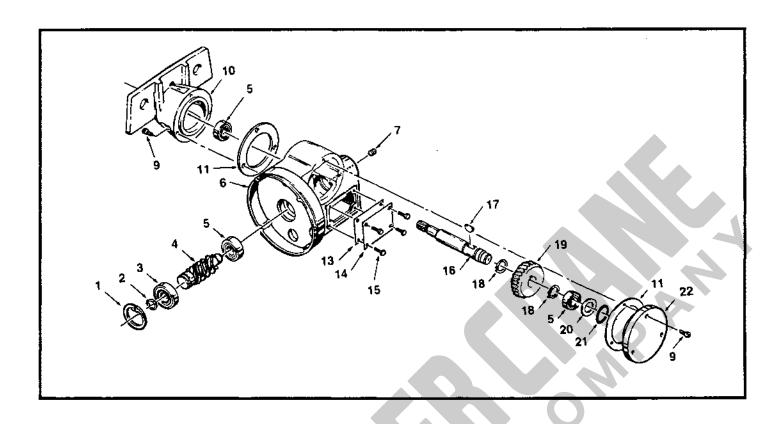
ARRANGEMENT DRAWING - REFERENCE FOR EC-1 HOIST FIG. 1C



ARRANGEMENT DRAWING -- REFERENCE FOR EC-3, 1, 2, 3 TON FIG. 1D



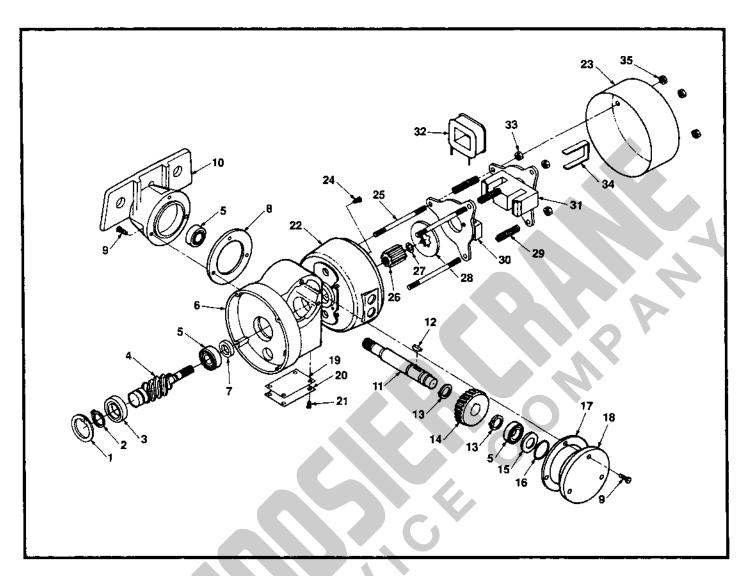
ARRANGEMENT DRAWING — REFERENCE FOR 4 AND 5 TON EC-3 CHAIN HOIST FIG. 1F



Index No.	Part Name	Part No.
1	Retaining Ring	SK2658-6
2	Retaining Ring	H-5549
3	Bearing	JF-504-2
4	Worm:	
	35 FPM	485K21
	75 FPM	485K22
5	Bearing	500K3
6	Gear Housing	39K22
7	Plug	S-25-13
9	Screw	H-2215
10	Adapter Housing:	
	All Except 3, 5 Ton	38K60A
	3 and 5 Ton Only	38K61A

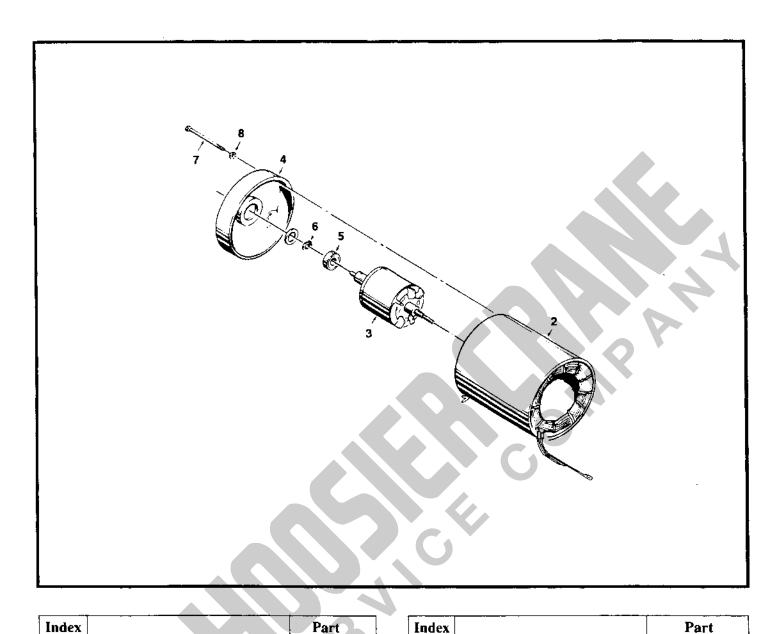
Index No.	Part Name	Part No.
11	Gasket	560K2
13	Gasket	560K3
14	Splice Plate	295K1
15	Screw	H-1009-P
16	Shaft	100K12
17	Woodruff Key	S-23-15
18	Retaining Ring	H-5527
19	Worm Gear:	
	35 FPM	487K4
j	75 FPM	487K3
20	Shim Washer	202K1
21	"O" Ring	H-5609
22	End Cap	32K3

FIGURE 7-2. TROLLEY TRANSMISSION



Index No.	Part Name	Part No.		Index No.	Part Name	Part No.	
140.					····		
1 1	Retaining Ring	SK2658-6		17	Gasket	560K2	
2	Retaining Ring	H5549		18	End Cap	32K3	
3	Bearing	JF504-2	0.5	19	Gasket	560K3	
4	Worm	485K25	35FPM	20	Splice Plate	295K1	
		485K26	75 FPM	21	Screw	H1842P	
		485K27	100 FPM	22	Brake Housing	37J11	
		485K28	150 FPM	23	Brake Cover	36J10	
5	Bearing	500K3		24	Screw (Socket Head)	S49-12	
6	Gear Housing	39K23		25	Stud	141J12	
7	Oil Seal	561K2	i	26	Brake Adapter	ЛL142	
8	Gasket	560K2		27	Retaining Ring	H5501	
9	Screw	H2215		28	Brake Disc	581J1A	
10	Adapter Housing	38K60A	All Except	29	Spring	344J6	
			3, 5 Ton	30	Plate & Armature	JF858	
		38K61A	3, 5 Ton Only	31	Plate & "E" Frame	JF857	
11	Shaft	100K12		32	Brake Coil	JF853-1	115V
12	Woodruff Key	S23-15				JF853-2	230V
13	Retaining Ring	H5527				JF853-3	460V
14	Worm Gear	487K4	35 FPM	ĺ		JF853-4	57 5V
		487K3	75 FPM			JF853-5	208V
		487K2	100 FPM	33	Nut	H3978	
		487K1	150 FPM	34	Retainer	JF710	
15	Shim Washer	202K1	.5011411	35	Nut	H3978	
16	"O" Ring	H5609		1 33	1144	125710	
		113009		L	<u> </u>		

FIGURE 7-3. TROLLEY TRANSMISSION WITH BRAKE



	Index No.	Part Name	Part No.	Index No.	·-
	1	Motor Complete, 3 Ph, 60 Hz:		1	Two Speed (Cont.);
		Single Speed;		(Cont	.) 575V.
		208-230/460V.			'/₄ HP
		¼ HP	JL-863-1M		'/₂ HP
		<mark>'/₂</mark> HP	JL-863-2	2	Stator (Not Available
		575 <mark>V</mark> .			Separately)
			JL-863-5M	3	Rotor & Shaft
	111/6	<mark>'/₂ H</mark> P	JL-863-6	4	End Shield
		Two Speed;		5	Bearing, Front
		208-230V.		6	Ring, Retaining
1		1/4 HP	JL-873-1M	7	Screw, Motor Mount
		1/2 HP	JL-873-2M	8	Lock Washer
		460V.			
!	!	'/₄ HP	JL-873-5M		
		'/ ₂ HP	JL-873-6M		

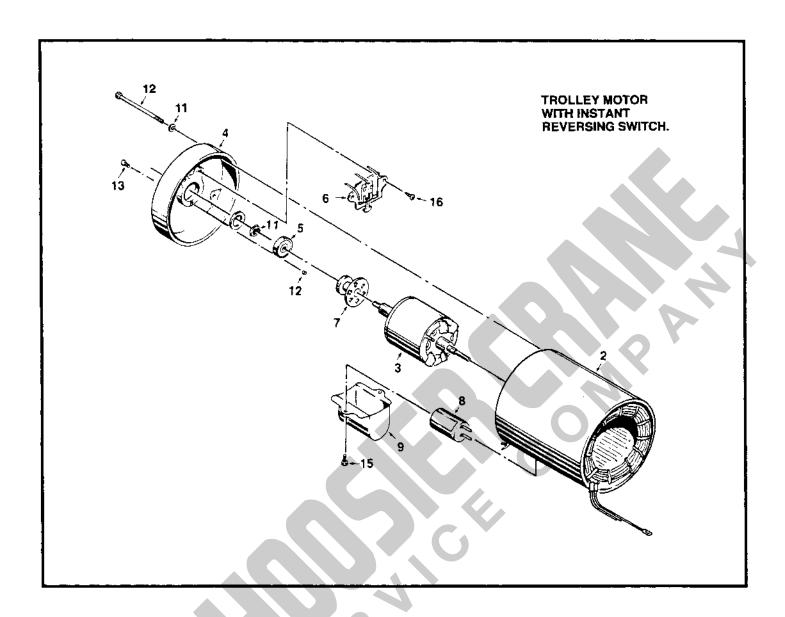
^{*}For individual motor parts, contact your Duff-Norton Distributor and supply complete motor nameplate data.

FIGURE 7-4. TROLLEY MOTOR PARTS (3 PHASE)

No.

JL-873-9M JL-873-10M

500K3



Index No.	Part Name	Part No.
1	Motor Complete,	
	115/230V, 1-PH, 60Hz:	
	1/4 HP	JL-861-11M
1	1/2 HP	JL-861-12
2	Stator (Not Available	
	Separately)	*
3	Rotor & Shaft	*
4	End Shield	*
5	Bearing	500K3

Index No.	Part Name	Part No.
6	Shim Wheel	*
7	Start Switch	839J2
8	Capacitor	*
9	Cover, Capacitor	*
10	Start Switch cover	*
11	Lockwasher	*
12	Screw, Motor Mount	*
13	Screw	*
14	Screw	*

^{*}For individual motor parts, contact your Duff-Norton Distributor and supply complete motor nameplate data.

FIGURE 7-4A. TROLLEY MOTOR PARTS (SINGLE PHASE)

Index No.	Part Name	Part No.
31	ЛL-861-12	Motor, Complete: 1/2 HP, 115/230V, 60 Hz
31	Л861-14	Motor, Complete: 1 HP, 115/230V, 60 Hz
32		Slator & Housing Assembly Not Available Separately
33	*	Rotor & Shaft Assembly: 1/2 HP, 115/230V, 60 Hz 1 HP, 115/230V, 60 Hz
34	*	End Shield
35	500K3	Front Bearing Capacitor:
38	*	¹ / ₂ HP
38	*	1 HP

^{*} Contact factory with complete electric motor nameplate data.

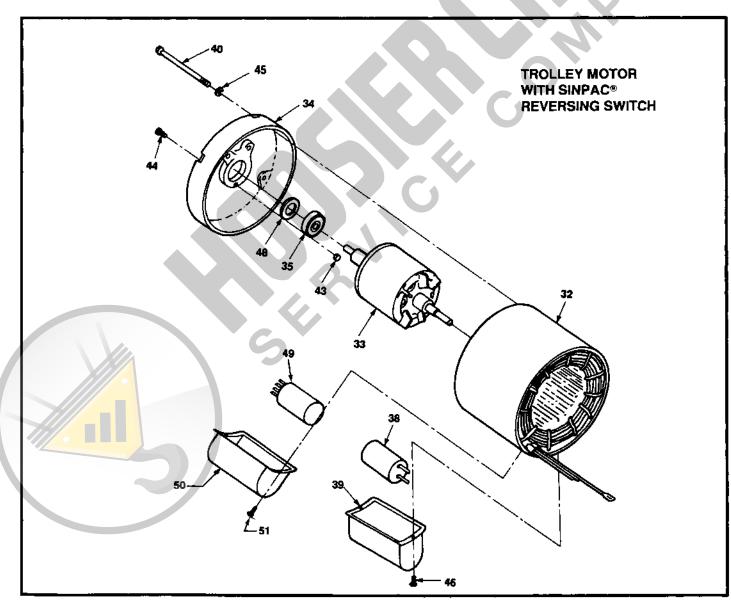
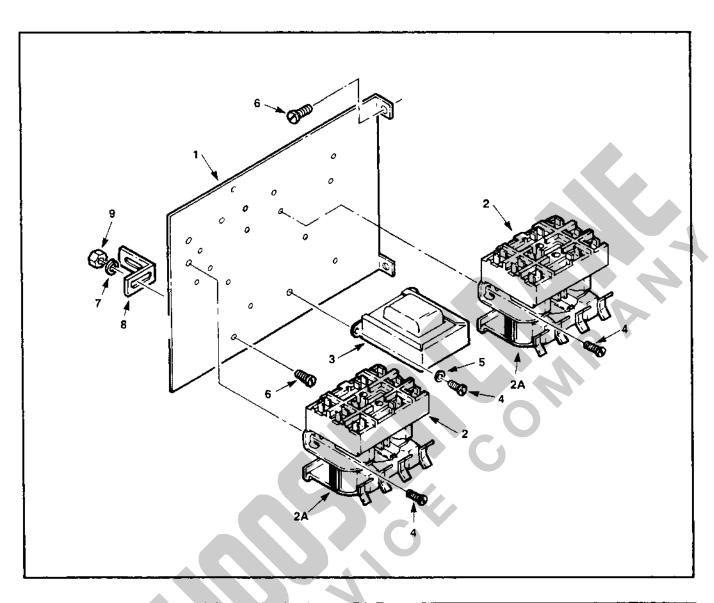


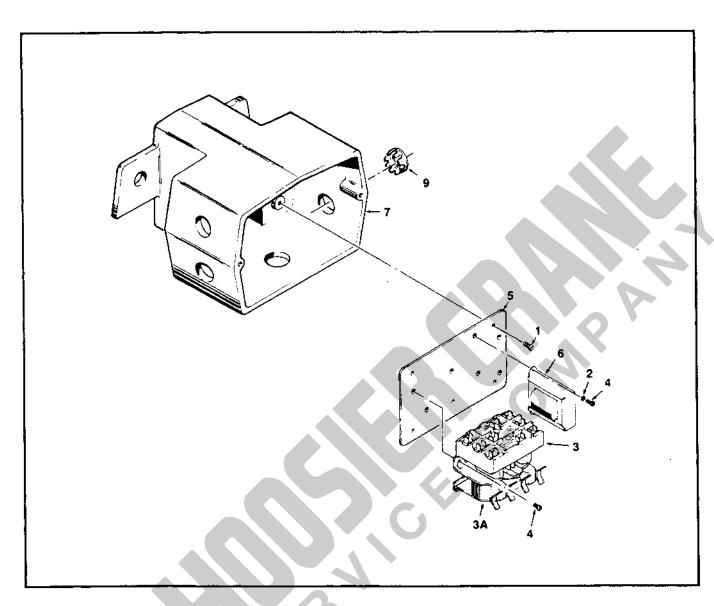
FIGURE 7-4B. TROLLEY MOTOR PARTS (1 PHASE, SINGLE SPEED)



Index No.	Part Name	Part No.	Index No.	Part Name	Part No.
1 2 2A 2B*	Control Panel Magnetic Reversing Switch 24V Control 115V Control Coil (24V) Coil (115V) Replacement Contact Kit (Includes stationary & movable contacts and spring for one magnetic reversing switch)	257J1A 820K2 820K317 820K301 820K302	4 5 6 7 8	Pri. 208, 230/460V, 208V, Sec. 115V, 50/60 Hz. Pri. 575V, Sec. 24V, 50/60 Hz Pri. 575V, Sec. 115V, 50/60 Hz Screw Lock Washer Screw Lock Washer Retainer	JF-821-17 JF-821-16 JF-821-20 H2751 H-4158 H-2981-P H-4802-P 285J7
3	Transformer: (20 VA.) Pri. 208, 230/460V, 208V, Sec. 24V, 50/60 Hz.	JF-821-15	9 10*	Nut (Retainer) Splice Connector	H-3862 H-5757

*Not Illustrated

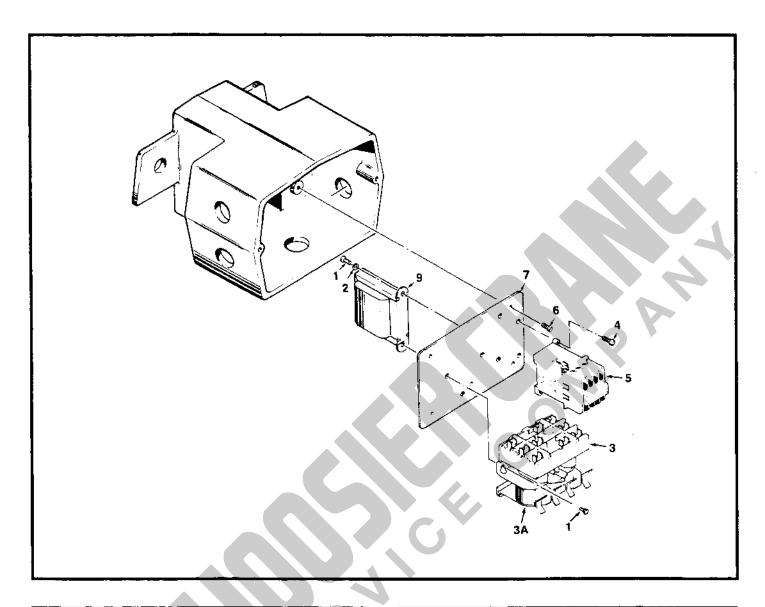
FIGURE 7-5. CONTROLLER AREA (3 PHASE) (SINGLE SPEED HOIST, SINGLE SPEED TROLLEY)



Index No.	Part Name	Part No.	Index No.	Part Name	Part No.
1	Screw	H-1005-P	6	Transformer: (10 VA)	
2	Lock Washer	H-4158	1	Pri. 208, 230/460V,	
3	Magnetic Reversing Switch:	}	<u> </u>	Sec. 24V, 50/60 Hz	JF-821-3
	24V Control	820K2	!	Pri. 208, 230/460V,	ļ
	115V Control	820K317	1	Sec. 115V, 50/60 Hz	JF-821
3A	Coil:			Pri. 575V,	1
	24 V	820K301		Sec. 24V, 50/60 Hz	JF-821-9
	115V	820K302		Pri. 575V,	
3B*	Replacement Contact Kit			Sec. 115V, 50/60 Hz	JF-821-2
	(Includes stationary and		7	Control Box:	
	movable contacts and			1; 2-Ton	36K1
	springs for one magnetic			3-Ton	36K2
	reversing switch)	820K300	8*	Jumper Wire	JF-940-7
4	Screw	H-2751	9	Hole Plug	H-6286
5	Panel Plate	257K267	1 1		

^{*}Not Illustrated

FIGURE 7-6. TROLLEY CONTROL, SINGLE SPEED (SINGLE SPEED TROLLEY, TWO SPEED HOIST)



Index No.	Part Name	Part No.
1	Screw	H-2751
2	Lock Washer	H-4158
3	Magnetic Reversing Switch:	
	24V Control	820K2
	115V Control	820K317
3A	Coil:	
	24V	820K301
1///	115V	820K302
3B	Replacement Contact Kit	
	(Includes stationary and	
	movable contacts and	
	springs for one magnetic	
	reversing switch)	820K300

Index No.	Part Name	Part No.
4	Screw	H-1901
5	Speed Control Relay:	
	24V Control	820J3
	115V Control	820J4
6	Screw	H-1005-P
7	Panel Plate	257K267
8*	Jumper Wire	JF-940-7
9	Transformer:	
	Pri. 208, 230/460V, Sec. 24V	JF-821-15
	Pri. 208, 230/460V, Sec. 115V	JF-821-17
	Pri. 575V, Sec. 24V	JF-821-16
	Pri. 575V, Sec. 115V	JF-821-20
		Į

FIGURE 7-7. TROLLEY CONTROL, TWO SPEED

^{*}Not illustrated.

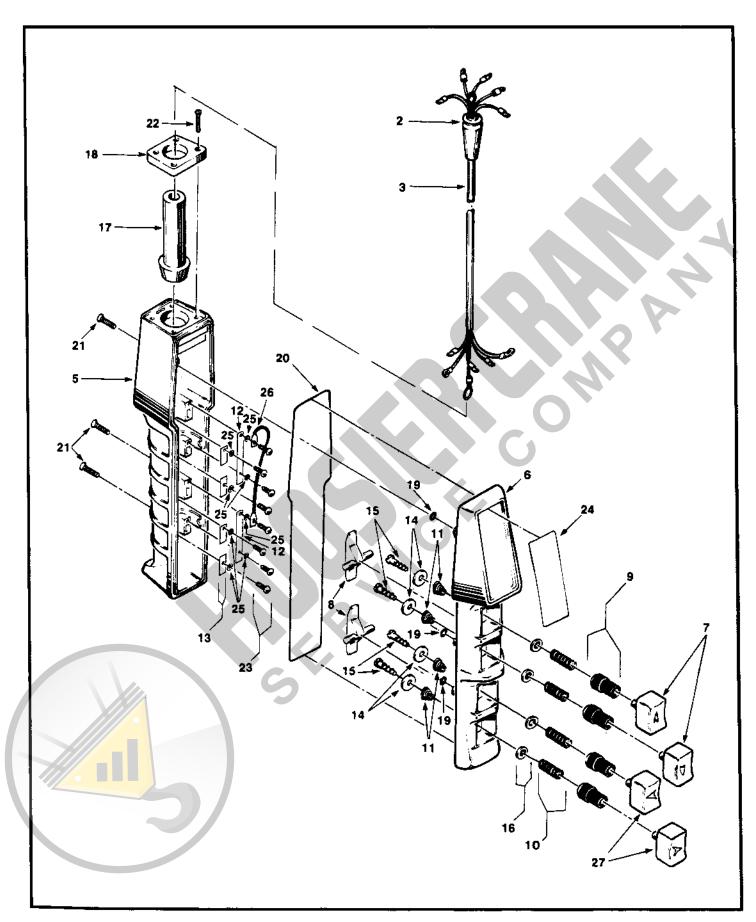


FIGURE 7-8. PUSHBUTTON (SINGLE SPEED HOIST, SINGLE SPEED TROLLEY)

Index		Part
No.	Part Name	No.
1	Push Button & Cable	
i	Assembly (Consists of	
	Index Nos. 2 thru 27):	
	6' Drop	PB-300-6A
	11' Drop	PB-300-11A
İ	16' Drop	PB-300-16A
	21' Drop	PB-300-21A
	Special Lift (*Equal	1 2 300 2111
	to P.B. Drop)	PB-300-*A
2	Rubber Grommet	JF-761
2 3	Push Button Cable Assembly:	31701
,	6' Drop	PB-300-6
	11' Drop	PB-300-0
		PB-300-11
-	16' Drop	
	21' Drop	PB-300-21
	Special Lift (*Equal	77 400 4
	to P.B. Drop)	PB-300-*
4	Push Button Assembly	534K98
	(Consists of Index	
	Nos. 5 thru 27)	
5	Enclosure	PB-282-4
6	Cover	PB-283
7	Push Button (Hoist)	PB-284-2
8	Interlock (Single-Speed, Red)	PB-285
9	Boot	PB-286
10	Spring, Compression	PB-287
11	Spring, Conical	PB-288
12	Contact Plate, Common	PB-290
13	Contact Plate	PB-289
14	Washer, Contact	PB-291
15	Screw	PB-301
16	Washer, Boot	PB-293
17	Grommet	PB-294-2
18	Cap Enclosure	PB-295
19	"O" Ring	X6477-1
20	Seal	H-7851
21	Screw	H-2991
22	Screw	H-2992
23	Screw	H-2993
24	Warning Tag	PB-296
25	Lock Washer	H-4160
26	Jumper (Common)	JF-940-42
	•	
27	Push Button (Trolley)	PB -284-1

FIGURE 7-8. PUSHBUTTON (SINGLE SPEED HOIST, SINGLE SPEED TROLLEY)

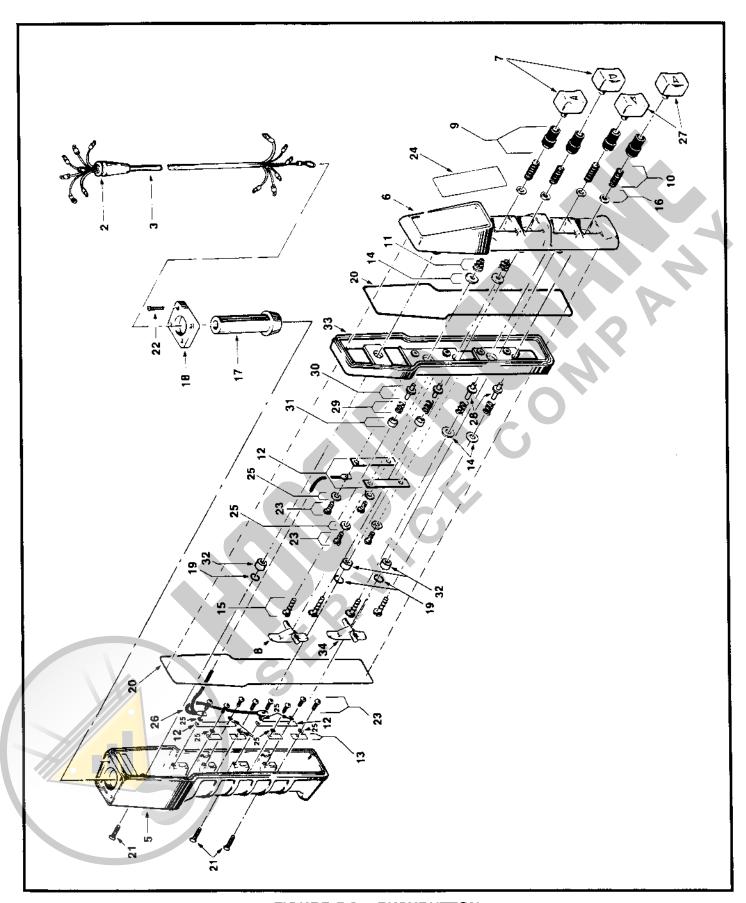


FIGURE 7-9. PUSHBUTTON (TWO SPEED HOIST, SINGLE SPEED TROLLEY; SINGLE SPEED HOIST, TWO SPEED TROLLEY)

Index No.	Part Name	Part No.	Index No.	Part Name	Part No.
1	Push Button & Cable		12	Contact Plate, Common	PB-290
	Assembly (Consists of		13	Contact Plate	PB-289
	Index Nos. 2 thru 34):		14	Washer, Contact	PB-291
	Two Speed Hoist,		15	Screw	H-1852-P
	Single Speed Trolley	534JG5-*	16	Washer, Boot	PB-293
	Single Speed Hoist,		17	Grommet	PB-294-2
[[Two Speed Trolley	534JG6-*	18	Cap, Enclosure	PB-295
2	Rubber Grommet	JF-761	19	"O" Ring	X-6477-1
3	Push Button Cable Assembly	PBS-309-*	20	Seal	H-7851
4	Push Button Assembly		21	Screw	H-2925
	(Consists of Index		22	Screw	H-2992
	Nos. 5 thru 34)		23	Screw	H-2993
	Two Speed Hoist,		24	Warning Tag	PB-296
	Single Speed Trolley	534JG5	25	Lock Washer	H-4160
	Single Speed Hoist,		26	Jumper	JF-940-111
	Two Speed Trolley	534JG6	27	Push Button (Trolley)	PB-284-21
5	Enclosure	PB-282-4	28	Spacer	755J2
6	Cover	PB-283	29	Spring, Lower	344J5
7	Push Button (Hoist)	PB-284-22	30	Insulating Bushing	755JI
8	Interlock (Two-Speed, Black)	PB-285-1	31	Lower Contact	201J1
9	Boot	PB-286	32	Bushing	200J16
10	Spring, Compression	PB-287	33	2-Speed Adapter	PB-308
11	Spring, Conical	PB-288	34	Interlock (Single Speed, Red)	PB-285

^{*} Denotes pushbutton drop in feet. Standard lengths = 6, 11, 16 and 21 feet.

FIGURE 7-9. PUSHBUTTON (TWO SPEED HOIST, SINGLE SPEED TROLLEY; SINGLE SPEED HOIST, TWO SPEED TROLLEY)



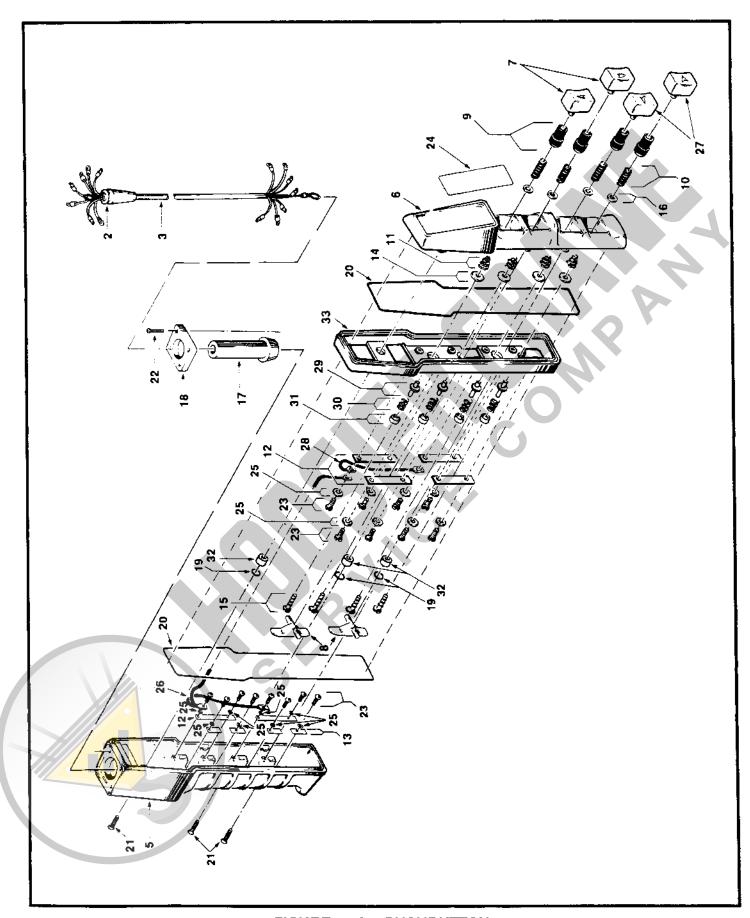


FIGURE 7-10. PUSHBUTTON (TWO SPEED HOIST, TWO SPEED TROLLEY)

Index		Part
No.	Part Name	No.
1	Push Button & Cable	
	Assembly (Consists of	
	Index Nos. 2 thru 33)	534JG7-*
2	Rubber Grommet	JF-761
3	Push Button Cable Assembly	PB-309-*
4	Push Button Assembly	534JG7
	(Consists of Index	•
	Nos. 5 thru 33)	
5	Enclosure	PB-282-4
6	Cover	PB-283
7	Push Button (Hoist)	PB-284-22
8	Interlock (Two Speed, Black)	PB-285-1
9	Boot	PB-286
10	Spring, Compression	PB-287
11	Spring, Conical	PB-288
12	Contact Plate, Common	PB-290
13	Contact Plate	PB-289
14	Washer, Contact	PB-291
15	Screw	H-1852-P
16	Washer, Boot	PB-293
17	Grommet	PB-294-2
18	Cap, Enclosure	PB-295
19	"O" Ring	X-6477-1
20	Seal	H-7851
21	Screw	H-2925
22	Screw	H-2992
23	Screw	H-2993
24	Warning Tag	PB-296
25	Lock Washer	H-4160
26	Jumper	JF-940-111
27	Push Button (Trolley)	PB-284-21
28	Jumper (2-Speed Common)	JF-940-42
29	Insulating Bushing	755J1
30	Spring, Lower	344J5
31	Lower Contact	201J1
32	Bushing	200J16
33	2-Speed Adapter	PB-308

^{*} Denotes pushbutton drop in feet. Standard lengths = 6, 11, 16 and 21 feet.

FIGURE 7-10. PUSHBUTTON (TWO SPEED HOIST, TWO SPEED TROLLEY)



Index No.	Part Name	Part No.
No.	rart Name	110.
1	Swivel Collector Assembly:	
1	Insul-8 Type	804K1
2	Collector Kit	
	(Includes Items 3-7)	
	All Except 3, 5 Ton	CCK2
	3 and 5 Ton Only	CCK3
3	Mounting Plate	
	All Except 3, 5 Ton	802K1
	3 and 5 Ton Only	802K2
4	Arm, Mounting	803KG8
5	Shackle, Mounting	806K1
6	Lock Washer	H-4062-P
7	Nut	H-3561

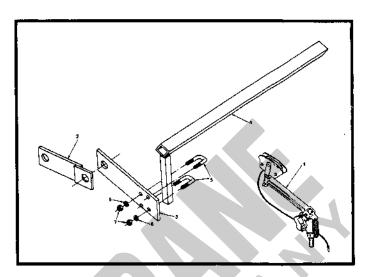
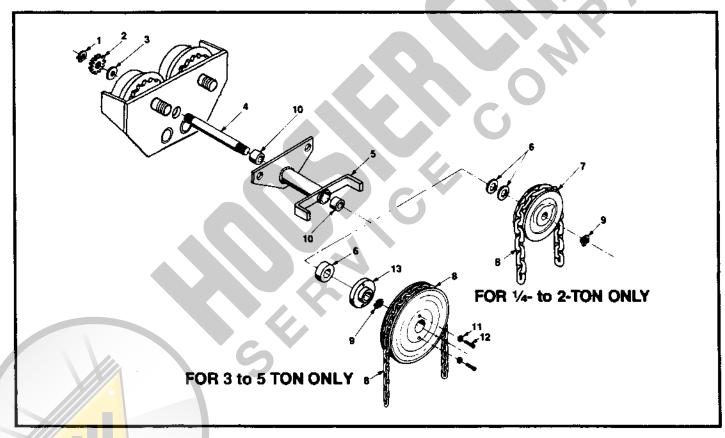


FIGURE 7-11. CURRENT COLLECTOR GROUP



Index No.	Part Name	Part No.
1	Retaining Ring	H-5501
2	Pinion	420K1
3	Spacer Bearing (1/16 Thick)	525K2
4	Gear Shaft	100K6
5	Sleeve and Adapter Assembly:	
	All Except 3, 5 Ton	51KG1
1	3 and 5 Ton Only	51KG2
6	Spacer Bearing (1/8 Thick)	525K1

Index No.	Part Name	Part No.
7	Hand Chain Wheel	33K23
8	Hand Chain (Specify Length)	53A
9	Retaining Ring	H-5527
10	Sleeve Bushing	530K6
11	Lockwasher	H-4138
12	Bolt	H-2304
13	Adapter	51K4

FIGURE 7-12. GEARED TROLLEY

COFFING® HOISTS

WARRANTY

very hoist is thoroughly inspected and tested prior to shipment from the factory. Should any problem develop, return the complete hoist prepaid to your nearest Coffing Hoists Authorized Warranty Repair Station. If inspection reveals that the problem is caused by defective workmanship or material, repairs will be made without charge and the hoist will be returned, transportation prepaid. This warranty does not apply where: (1) deterioration is caused by normal wear, abuse, improper or inadequate power supply, eccentric or side loading, overloading, chemical or abrasive actions, improper maintenance, or excessive heat; (2) problems resulted from repairs,

modifications, or alterations made by persons other than factory or Coffing Authorized Warranty Repair Stations personnel; (3) the hoist has been abused or damaged as a result of an accident; (4) repair parts or accessories other than those supplied by Coffing Hoists are used on the hoist. Equipment and accessories not of the seller's manufacture are warranted by the manufacturer.

Except as stated herein, Coffing Hoists makes no other warranties, express or implied, including warranties or merchantability and fitness for a particular purpose.



AWARNING

Overloading and Improper Use Can Result In Injury

To Avoid Injury:

- Do not exceed working load limit, load rating, or capacity.
- Do not use to lift people or loads over people.
- Use only alloy chain and attachments for overhead lifting.
- Read and follow all instructions.

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