

PARTS MANUAL
for
LECTRA-LINK™
LE SERIES*
MOTORIZED TROLLEY

* FORMERLY MS3 SERIES BULLETIN NO. MS7907-P

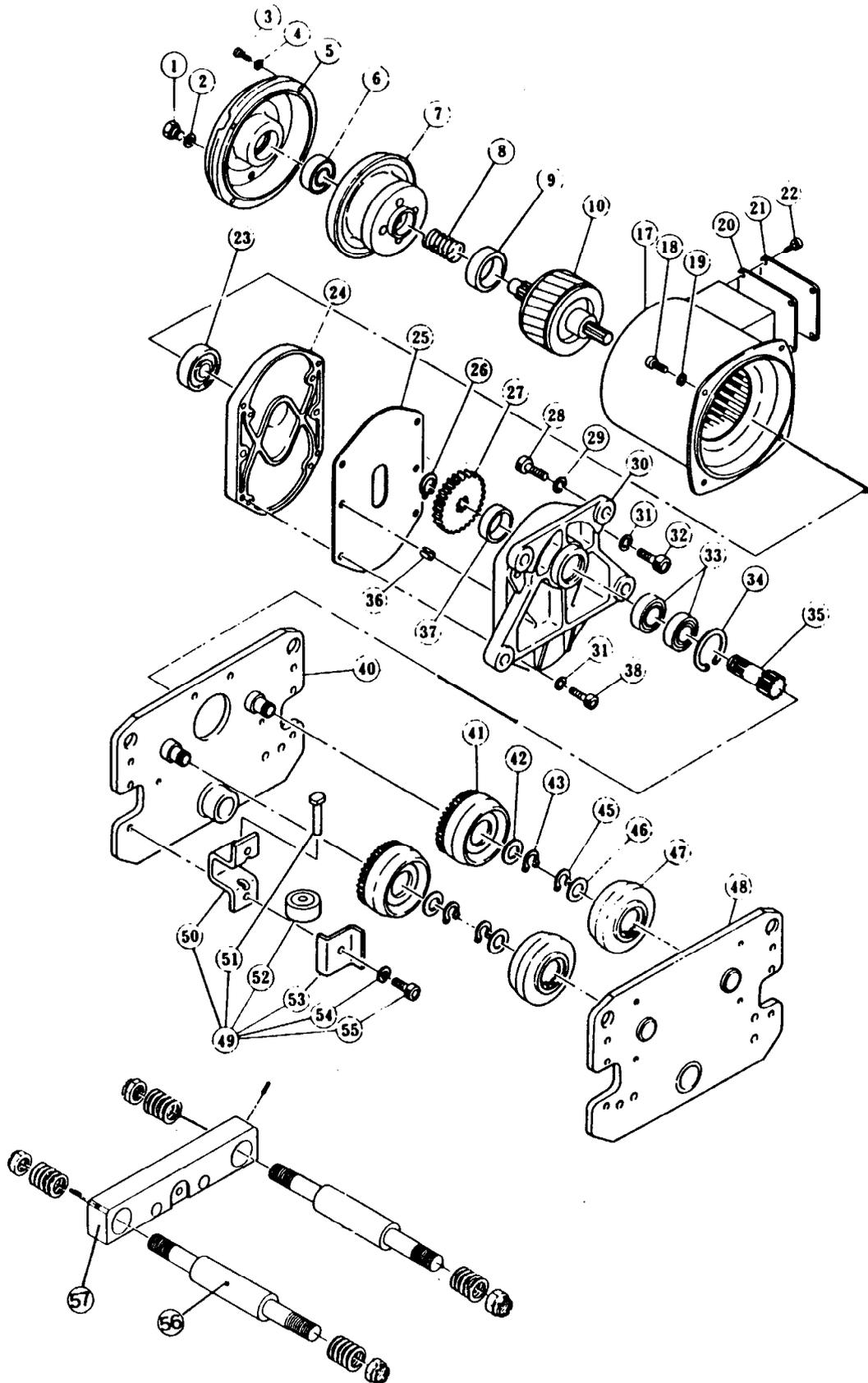
⚠ WARNING

Do not use these Trolleys for lifting, supporting, or transporting people or lifting or supporting loads over people.

Always operate, inspect and maintain these Trolleys in accordance with American National Standards Institute Safety Code (B30.16) and any other applicable safety codes and regulations.

Refer all communications to the nearest Ingersoll-Rand Material Handling Products Office or Distributor.

HOUSING AND MOTOR DRAWING



(Dwg. MHTPA0333)

HOUSING AND MOTOR PARTS LIST

ITEM NO.	DESCRIPTION OF PART	QTY TOTAL	PART NUMBER			
			1 TON	2 TON	3 TON	5 TON
1	Plug	1			70634	
2	Plug Packing	1			70635	
3	Capscrew	4			70636	
4	Lock Washer	4			70637	
5	Motor Cover	1			70638	
6	Bearing	1			70639	
7	Brake Drum Assembly	1			70640	
8	Brake Spring	1			70641	
9	Bumper	1			70642	
10	Rotor / Motor Shaft	1	70643			70644
17	Stator / Motor Frame Assy	1	70645			70646
18	Capscrew	4			70647	
19	Lock Washer	4			70648	
20	Gasket (Terminal Cover)	1			70649	
21	Terminal Cover	1			70650	
22	Screw (w/ washer)	4			70651	
23	Bearing	1			70652	
24	Gear Box Housing (B)	1			70653	
25	Gasket (Gear Box)	1			70654	
26	Snap Ring	1			70655	
27	Gear (#2)	S *	1		70656	
		L *		70657		
28	Capscrew	4			70658	
29	Lock Washer	4			70659	
30	Gear Box Housing (A)	1			70660	
31	Lock Washer	4			70648	
32	Capscrew	2			70661	
33	Bearing	2			70662	
34	Snap Ring	1			70663	
35	Gear Pinion (#3)	1	70664		70665	70666
36	Set Pin	2			70667	
37	Spacer	1			70668	
38	Capscrew	2			70647	
41	Geared Wheel	2	70677	70678	70679	70680
42	Washer	2	70681	70682	70683	70684
43	Snap Ring	2	70685	70686	70687	70688
45	Snap Ring	2	70685	70686	70687	70688
46	Washer	2	70681	70682	70683	70684
47	Plain Wheel	2	70693	70694	70695	70696
49	Roller Assembly Set (items 50 thru 55)	4	70701		70702	70703
50	Roller Housing	4	Not sold separately.			
51	Roller Pin	4				
52	Roller	4				
53	Stopper Plate	4				
54	Lock Washer	8				
55	Capscrew	8				

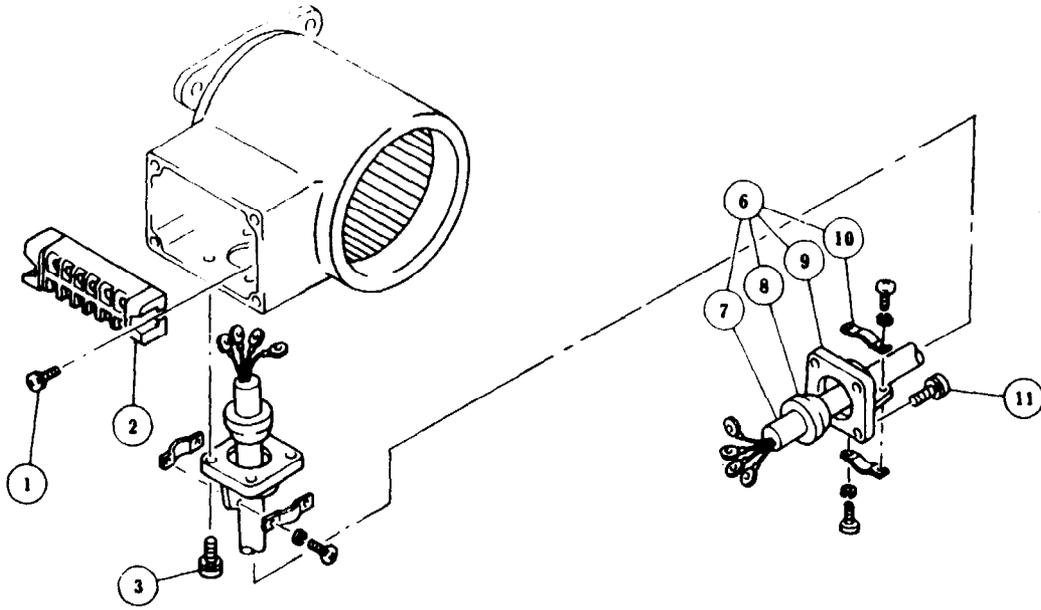
	DESCRIPTION	QTY TOTAL	LE1*003	LE2*005	LE2*010	LE4*015	LE4*030	LE5*050
			LE1*005	LE3*010	LE3*020	LE4*020		
40	Side Plate (Drive)	1 ***	9612-010		9612-020		9612-030	9612-050
48	Side Plate (Plain)	1 ***	9611-010		9611-020		9611-030	9611-050
56	Suspender Shaft	2 ***	9614-020-A				9614-030-A	9614-050-B
57	Suspender Bracket	1 ***	9613-010	9613-020LD	9613-020	9613-030D	9613-050D	

* S: 80 feet/minute (24 meter/minute); L: 40 feet/minute (12 meter/minute).

** QUANTITY: 1 Ton = 24; 2, 3 and 5 Ton = 16.

*** Drawing may not reflect actual design.

CONTROL STATION DRAWING

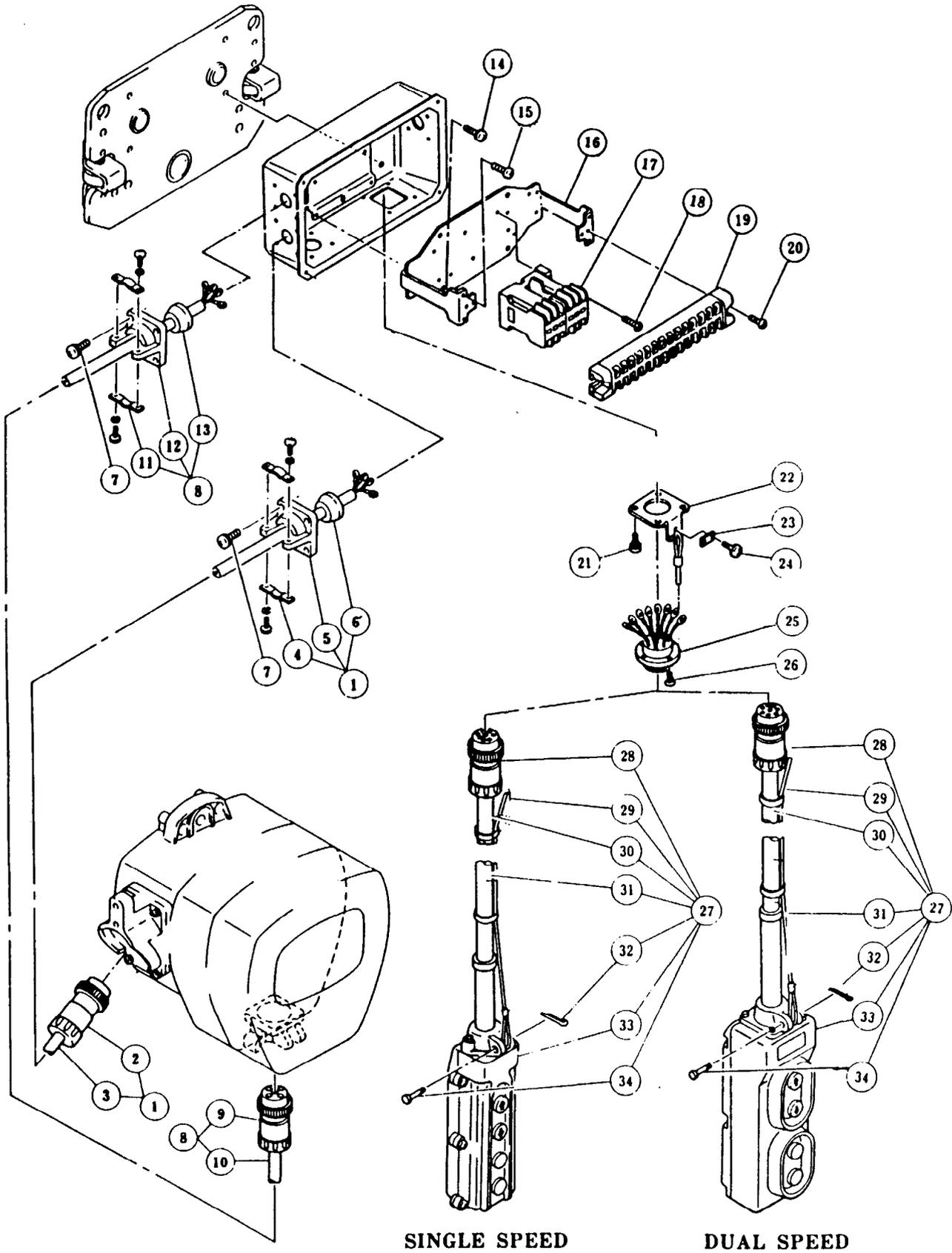


(Dwg. MHTPA0334)

CONTROL STATION PARTS LIST

ITEM NO.	DESCRIPTION OF PART	QTY TOTAL	PART NUMBER			
			1 TON	2 TON	3 TON	5 TON
1	Screw (w/ lock washer)	2	70748			
2	Terminal Plate	1	70749			
3	Screw (w/ lock washer)	4	70750			
6	Cable Set (includes items 7 thru 10)	1	70753			
7	Cable	1	70754			
8	Packing	2	70755			
9	Cable holder	2	70756			
10	Clamp Assembly	2	70757			
11	Screw (w/ lock washer)	4	70758			

220/380 V 50HZ CONTROL STATION DRAWING



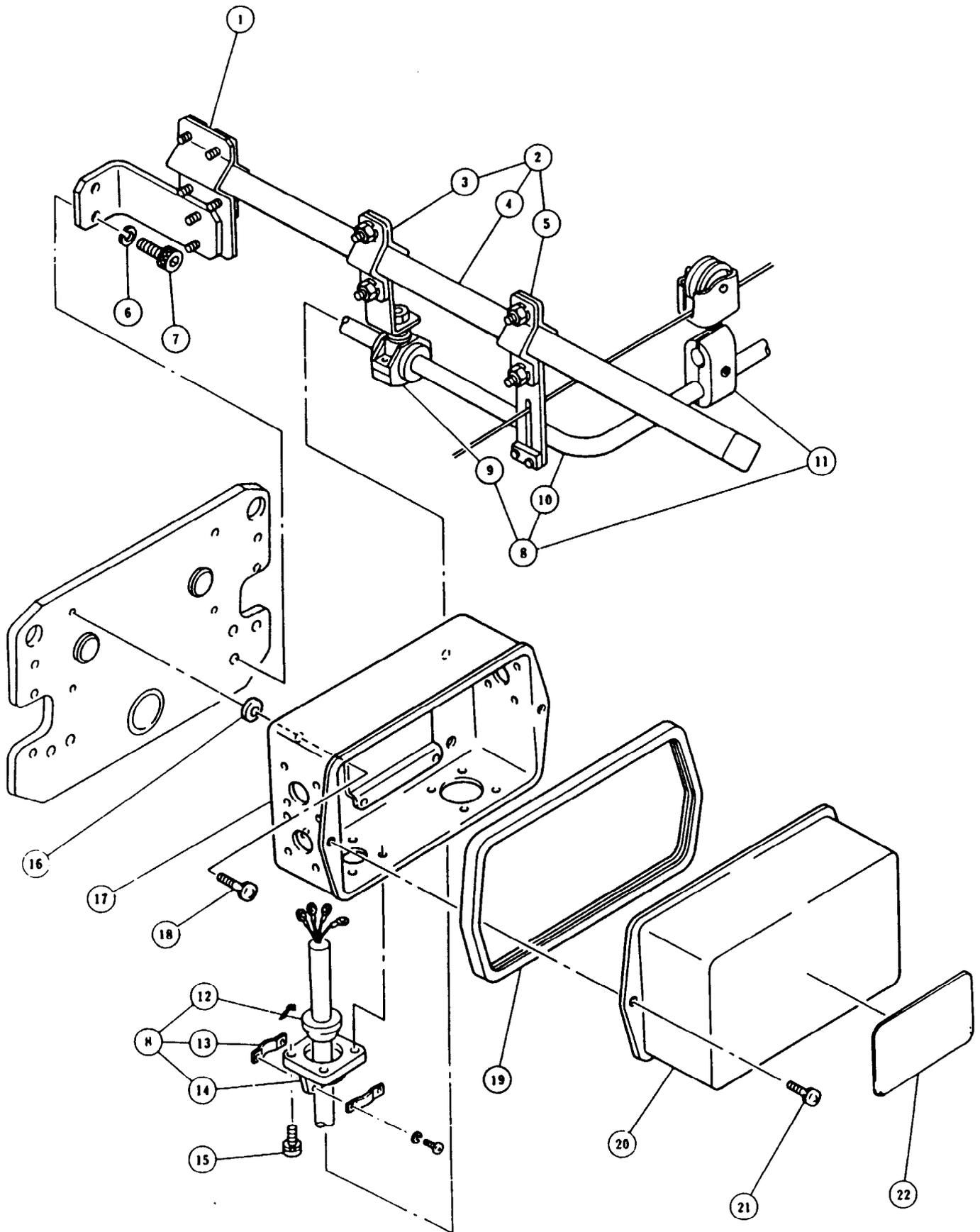
(Dwg. MHTPA0335)

220/380 V 50HZ CONTROL STATION PARTS LIST

ITEM NO.	DESCRIPTION OF PART	QTY TOTAL	PART NUMBER			
			1 TON	2 TON	3 TON	5 TON
1	Cable Set (includes items 2 thru 6)	1	70772	70773		
2	Plug	1	70572			
3	Cable	1	70775	70776		
4	Cable Clamp	1	70757			
5	Cable Housing End Cap	1	70756			
6	Packing	1	70755			
7	Screw (w/ lock washer)	8	70758			
8	Cable Set (includes items 9 thru 13)	1	70778			
9	Plug	1	70499			
10	Cable	1	70779	70780		
11	Cable Clamp	1	70781			
12	Cable Housing End Cap	1	70756			
13	Packing	1	70782			
14	Screw (w/ lock washer)	4	70651			
15	Screw (w/ lock washer)	1	70759			
16	Plate Assembly	1	70762			
17	Electromagnetic Contactor (interlocked)	50 V	1	71514		
		110 V		70518		
	Electromagnetic Contactor (non-interlocked)	50 V	2	71513		
		110 V		71528		
18	Screw (w/ lock washer)	4	70764			
19	Terminal Plate	1	70765			
20	Screw (w/ lock washer)	2	70764			
21	Screw (w/ lock washer)	4	70651			
22	Cord / Chain Bracket	1	70783			
23	Chain Clamp	1	70770			
24	Screw (w/ lock washer)	2	70651			
25	Socket Assembly	1	70784			
26	Machine Screw (Flat head)	4	70785			
27	4 Pushbutton Cord Set (includes items 28 thru 34)	S	1*	4PB XX (feet)		
		D		4PB XX D (feet)		
28	Plug	1	70788			
29	Chain	1	50041			
30	Cord / Chain Ring	5	50040			
31	Pushbutton Cord 5C	S	1	70550		
	Pushbutton Cord 6C	D		70551		
32	Split Ring	1	70557			
33	4 Pushbutton Switch Assembly	S	1	70552		
		D		70789		
34	Pin	1	70558			

* Replace XX with required cord length; EXAMPLE: 15 foot cord set part number is 4PB15 or 4PB15D (for Dual Speed Models).
 NOTE: For hardwired units refer to INGERSOLL-RAND Manual FORM MHD56013 - Hardwire Addendum.

POWER SUPPLY DRAWING



(Dwg. MHTPA0336)

POWER SUPPLY PARTS LIST

ITEM NO.	DESCRIPTION OF PART	QTY TOTAL	PART NUMBER				
			1 TON	2 TON	3 TON	5 TON	
1	Bar Clamp Assembly	1	70790				
2	Cable Support Assembly (includes items 3 thru 5)	1	70791				
3	Support Arm Assembly	1	70792				
4	Support Bar	1	70793				
5	Wire Guide Assembly	1	70794				
6	Lock Washer	2	70795				
7	Capscrew	2	70796				
8	Cable Assembly (includes items 9 thru 14)	1	70797				
9	Support Assembly	1	70798				
10	Cable	1	70799				
11	Hanger Assembly	6	70800				
12	Packing	1	70801				
13	Clamp Assembly	1	70802				
14	Cable Housing End Cap	1	70756				
15	Screw (w/ lock washer)	4	70758				
16	Spacer	4	70803				
17	Switch Box Assembly	1	70804				
18	Screw (w/ lock washer)	4	70805				
19	Gasket (switch box cover)	1	70806				
20	Switch Box Cover	1	70807				
21	Screw (w/ lock washer)	2	70651				
22	Name Plate	S	1				
		L					

PARTS ORDERING INFORMATION

The use of replacement parts other than INGERSOLL-RAND Material Handling Products will invalidate the Company's warranty. For prompt service and genuine INGERSOLL-RAND Material Handling Product parts, provide your nearest Distributor with the following:

1. Complete model number as it appears on the nameplate. L1E. . . L2E. . . L3E. . .
2. Part number and part description as shown in this manual.
3. Quantity required.

Return Goods Policy

Ingersoll-Rand will not accept any returned goods for warranty or service work unless prior arrangements have been made and written authorization has been provided from the location where the goods were purchased.

NOTICE

•When ordering replacement parts, please specify the following points:

1. Complete model number and serial number as it appears on the nameplate.
2. Voltage
3. Single or dual speed.
4. Part number(s) and part description as shown in this manual.
5. Quantity required.

NOTICE

• Continuing improvement and advancement of design may cause changes to this trolley which are not included in this manual. Manuals are periodically revised to incorporate changes. Always check the manual edition number on the front cover for the latest issue.

• When the life of the trolley has expired, it is recommended that the trolley be disassembled, degreased and parts separated as to materials so that they may be recycled.

For your convenience and future reference it is recommended that the following information be recorded.

Trolley Model Number _____

Trolley Serial Number _____

Date Purchased _____

When the life of the trolley has expired, it is recommended that the trolley be disassembled, degreased and parts separated as to materials so that they may be recycled.

For additional information contact:

Ingersoll-Rand Material Handling
2724 Sixth Avenue South
Seattle, WA 98124 USA

or

Ingersoll-Rand International Sales
Southmoor Road
Wythenshawe, Manchester
M23 9LN United Kingdom

HOIST AND WINCH LIMITED WARRANTY

Ingersoll-Rand Company (I-R) warrants to the original user its Hoists and Winches (Products) to be free of defects in material and workmanship for a period of one year from the date of purchase. I-R will repair, without cost, any Product found to be defective, including parts and labor charges, or at its option, will replace such Products or refund the purchase price less a reasonable allowance for depreciation, in exchange for the Product. Repairs or replacements are warranted for the remainder of the original warranty period.

If any Product proves defective within its original one year warranty period, it should be returned to any Authorized Hoist and Winch Service Distributor, transportation prepaid with proof of purchase or warranty card.

This warranty does not apply to Products which I-R has determined to have been misused or abused, improperly maintained by the user, or where the malfunction or defect can be attributed to the use of non-genuine I-R parts.

I-R makes no other warranty, and all implied warranties including any warranty of merchantability or fitness for a particular purpose are limited to the duration of the expressed warranty period as set forth above.

I-R's maximum liability is limited to the purchase price of the Product and in no event shall I-R be liable for any consequential, indirect, incidental, or special damages of any nature rising from the sale or use of the Product, whether based on contract, tort, or otherwise.

Note: Some states do not allow limitations on incidental or consequential damages or how long an implied warranty lasts so that the above limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

IMPORTANT NOTICE

It is our policy to promote safe delivery of all orders.

This shipment has been thoroughly checked, packed and inspected before leaving our plant and receipt for it in good condition has been received from the carrier. Any loss or damage which occurs to this shipment while enroute is not due to any action or conduct of the manufacturer.

VISIBLE LOSS OR DAMAGE

If any of the goods called for on the bill of lading or express receipt are damaged or the quantity is short, do not accept them until the freight or express agent makes an appropriate notation on your freight bill or express receipt.

CONCEALED LOSS OR DAMAGE

When a shipment has been delivered to you in apparent good condition, but upon opening the

crate or container, loss or damage has taken place while in transit, notify the carrier's agent immediately.

DAMAGE CLAIMS

You must file claims for damage with the carrier. It is the transportation company's responsibility to reimburse you for repair or replacement of goods damaged in shipment. Claims for loss or damage in shipment must not be deducted from the Ingersoll-Rand invoice, nor should payment of Ingersoll-Rand invoice be withheld awaiting adjustment of such claims as the carrier guarantees safe delivery.

You may return products damaged in shipment to us for repair, which services will be for your account and form your basis for claim against the carrier.

United States Office Locations

For Order Entry and Order Status:

Ingersoll-Rand Distribution Center

510 Hester Drive
P.O. Box 618
White House, TN 37188
Phone: (615) 672-0321
Telex: 786573
Fax: (615) 672-0801

Ingersoll-Rand Material Handling Technical Support

2724 Sixth Avenue South
P.O. Box 24046
Seattle, WA 98124-0046
Phone: (206) 624-0466
Telex: 328795
Fax: (206) 624-6265

Regional Sales Offices:

Atlanta, GA

111 Ingersoll-Rand Drive
Chamblee, GA 30341
Phone: (404) 936-6230

Detroit, MI

23192 Commerce Drive
Farmington Hills, MI 48335
Phone: (313) 476-6677
Fax: (313) 476-6670

Houston, TX

2500 East T.C. Jester
Suite 150
Houston, TX 77008
Phone: (713) 864-3700

Los Angeles, CA

5533 East Olympic Blvd.
Los Angeles, CA 90022
Phone: (213) 725-2826

Milwaukee, WI

12311 W. Silver Spring Dr.
Milwaukee, WI 53225
Phone: (414) 461-0973

Philadelphia, PA

900 E. 8th Ave., Suite 103
P.O. Box 425
King of Prussia, PA 19406
Phone: (215) 337-5930

International Office Locations

Offices and distributors in principal cities throughout the world. Contact the nearest Ingersoll-Rand office for the name and address of the distributor in your country or write/fax to:

Ingersoll-Rand
Material Handling
P.O. Box 24046 Seattle,
WA 98124-0046 USA
Phone: (206) 624-0466
Telex: 328795
Fax: (206) 624-6265

Canada:

National Sales Office
Regional Warehouse
Toronto, Ontario
51 Worcester Road
Rexdale, Ontario
M9W 4K2
Phone: (416) 675-5611
Fax: (416) 675-6920

Regional Sales Offices

Calgary, Alberta
333 11th Avenue S.W.
Calgary, Alberta
T2R 0C7
Phone: (403) 261-8652

Montreal, Quebec
3501 St. Charles Blvd.
Kirkland, Quebec
H9H 4S3
Phone: (514) 695-9040

British Columbia

201-6351 Westminster Hwy
Richmond, B.C.
V7C 5C7
Phone: (604) 278-0459

British Columbia Regional Warehouse Technical Support

123 Bowser Avenue
North Vancouver, British
Columbia V7P 3H1
Phone: (604) 985-4470
Fax: (604) 985-0160

Latin America Operations

Ingersoll-Rand Production Equipment Group

730 N.W. 107 Avenue
Suite 300, Miami, FL
33172-3107
Phone: (305) 559-0500
Telex: 441617TLS UI
Fax: (305) 559-7505

Europe, Middle East and Africa

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P.O. Box 23 Southmoor Rd.
Wythenshawe
Manchester M23 9LN
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Phone: (44) 61-902 9098
Fax: (44) 61-946 6375