

RR-45 PARTS MANUAL

Manual Number 9002

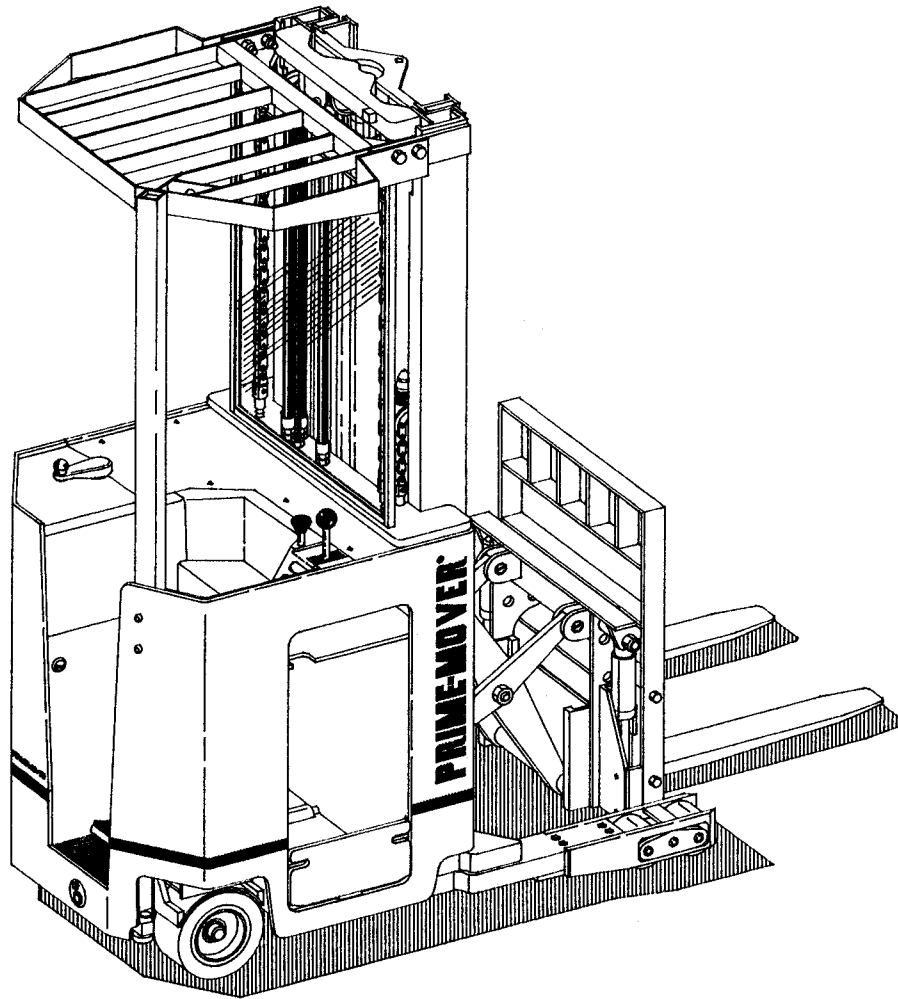
Manual Part Number ~~300213-000~~ **300378-000**


RR-45 REACH TRUCK

RR-45

Effective Serial Number

RR45170373



 **WARNING** Read and observe all warnings on the unit before operating it. Do not operate this equipment unless all factory installed guards and shields are properly secured in place.

ISSUED FEBRUARY 1990

 **PRIME-MOVER[®]**

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FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
1.3	1	11160-01	Fitting, grease	2	
1.3	2	40002-00	Yoke	1	
1.3	3	41648-00	Plate	1	
1.3	4	11143-03	Screw, cap	4	
1.3	5	49972-02	Ring	1	
1.3	6	40005-00	Pin	1	
1.3	7	11205-15	Bearing	1	
1.3	8	49969-01	Shim, .005	As Req'd	
1.3	8	49969-02	Shim, .007	As Req'd	
1.3	8	49969-03	Shim, .010	As Req'd	
1.3	8	49969-04	Shim, .020	As Req'd	
1.3	9	11015-16	O ring	1	
1.3	10	40473-00	Gear and pinion set	1	
1.3			(See Fig.# 1.4 for Gear)		
1.3	11	40023-00	Piston	1	
1.3	12	11827-14	Ring, retainer	1	
1.3	13	14908-12	Locknut	1	
1.3	14	49966-02	Washer	1	
1.3	15	11890-05	Pin	2	
1.3	16		Transmission assembly (See Fig.# 1.4)	1	
1.3	17	11872-02	Bolt, wheel	8	
1.3	18	11827-15	Ring, retainer	1	
1.3	19	49967-07	Shim, .005	As Req'd	
1.3	19	49967-08	Shim, .007	As Req'd	
1.3	19	49967-09	Shim, .010	As Req'd	
1.3	19	49967-10	Shim, .060	As Req'd	
1.3	20	11205-18	Bearing	1	
1.3	21	49972-04	Ring	1	
1.3	22	49973-01	Locknut	2	
1.3	23	49974-01	Lockwasher	1	
1.3	24	11854-03	Screw, cap	4	
1.3	25	40000-00	Collar	1	
1.3	26	49968-00	Bearing set	1	
1.3	27	49972-01	Ring	1	
1.3	28	22012-05	Elbow, 90°	1	
1.3	29	12391-07	O ring	1	
1.3	30	49928-07	Cap	1	
1.3	31	40267-00	Wheel, drive	1	
1.3	32	40004-00	Wheel, hub	1	
1.3	33	40266-00	Tire, rubber	1	
1.3	34	11801-00	Nut, wheel	8	
1.3	35	11241-01	Elbow, 90°	1	
1.3	36	11459-00	Vent, air	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
2.7	1	25332-01	Tie, wire	As Req'd	
2.7	2	41166-00	Harness, wiring (See Fig.# 2.4)	1	
2.7	3	49611-00	Receptacle	1	
2.7	4	49861-05	Relief, strain	1	
2.7	5	49610-00	Pin	5	
2.7	6	52-07920-00	Cable	As Req'd	
			15 feet	89/126	
			16 feet	95/138	
			19 feet	107/162	
			18 feet	119/186	
2.7	7	11854-03	Screw, cap	2	
2.7	8	11009-05	Lockwasher	2	
2.7	9	40030-02	Bracket	1	
2.7	10	49609-00	Plug	1	
2.7	11	41255-00	Cable, single reach (See Fig.# 2.9)	1	
2.7	11	41486-00	Cable, double reach (See Fig.# 2.10)	1	
2.7	12	49608-00	Socket	5	

FIG	ITEM			# FOR	
#	#	PART #	NAME	ASSY.	UNIT
2.14	1	200076	Base, magnet	1	
2.14	2	200077	Coil, 24 volt	2	
2.14	2	202172	Coil, 36 volt	2	
2.14	3	200078	Frame, magnet	2	
2.14	4	200079	Spring (red)	2	
2.14	5	200080	Armature	2	
2.14	6	200081	Base, bus	2	
2.14	7	200082	Tip, contact	2	
2.14	8	200083	Tip, contact	1	
2.14	9	200084	Tip, movable	4	
2.14	10	201267	Spring (gold)	2	
2.14	11	200085	Insulation	2	
2.14	12	201215	Locknut	2	
2.14	13	200086	Clamp	4	
2.14	14	200087	Tip, contact	1	
2.14	15	200088	Cover	2	
2.14	16	201368	Lockwasher	8	
2.14	17	201372	Screw, machine	8	
2.14	18	200089	Screw, cap	2	
2.14	19	200090	lockwasher	2	
2.14	20	200091	Washer, flat	2	
2.14	21	200092	Tip, contact	1	
2.14	22	200093	Clamp	2	
2.14	23	201367	Washer, flat	2	
2.14	24	200094	Seat	4	
2.14	25	200095	Carrier	2	
2.14	26	200096	Bushing	2	
2.14	27	200097	Tip, contact	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
2.21	1	26210-02	Light, flashing	1	24 volt
2.21	1	26210-03	Light, flashing	1	36 volt
2.21	2	200869	Lens (for flashing light only)	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.8	1	49582-02	Hose	1	
3.8	2	52-05104-00	Guard, hose (2.3 feet)	As Req'd	
3.8	3	49655-01	Adapter, long	3	
3.8	4	49604-01	O ring	1	
3.8	5	12391-05	O ring	1	
3.8	6	40102-01	Steering control valve assembly (See Fig.# 3.7)	1	
3.8	7	41544-00	Cylinder, steering (See Fig.# 3.9)	1	
3.8	8	49654-01	Elbow, 45°	1	
3.8	9	49604-01	O ring	1	
3.8	10	12391-05	O ring	1	
3.8	11	49642-07	Hose	1	

FIG	ITEM			# FOR	UNIT
#	#	PART #	NAME	ASSY.	
3.15	1	41243-01	Coil, 24 volt	As Req'd	
3.15	1	41243-00	Coil, 36 volt	As Req'd	
3.15	2	41242-00	Divider valve assembly (See Fig.# 3.13)	1	
3.15	3	49656-00	Adapter	4	
3.15	4	12391-03	O ring	1	
3.15	5	49604-00	O ring	1	
3.15	6	49617-06	Hose	1	
3.15	7	49655-01	Fitting, straight long	2	
3.15	8	49604-00	O ring	1	
3.15	9	12391-03	O ring	1	
3.15	10	41469-00	Cylinder, left tilt (See Fig.# 3.16)	1	
3.15	11	49616-00	Elbow, 90°	2	
3.15	12	49604-00	O ring	2	
3.15	13	49579-00	Hose	1	
3.15	14	49578-00	Hose	1	
3.15	15	49623-00	Elbow, 90°	1	
3.15	16	49604-00	O ring	1	
3.15	17	49617-05	Hose	1	
3.15	18	49617-01	Hose	1	
3.15	19	201264	Cylinder, sideshift	1	
3.15	20	49654-08	Elbow, 45°	1	
3.15	21	49604-00	O ring	1	
3.15	22	49604-00	O ring	1	
3.15	23	49653-08	Elbow, 90°	1	
3.15	24	49604-00	O ring	1	
3.15	25	12391-04	O ring	1	
3.15	26	49617-00	Hose	1	
3.15	27	49655-00	Fitting, straight long	1	
3.15	28	49604-00	O ring	1	
3.15	29	12391-03	O ring	1	
3.15	30	49531-00	Elbow, 90°	1	
3.15	30	49604-00	O ring	2	
3.15	32	41559-00	Cylinder, right tilt (See Fig.# 3.16)	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.22	1K	NSS	Seal, shaft	1	
3.22	2	300249-000	Body	2	
3.22	3	202303	Pin, dowel	1	
3.22	4K	NSS	Nylatron	1	
3.22	5K	NSS	Spacer, rubber	1	
3.22	6	NSS	Plate, wear	1	
3.22	7	300247-000	Gear, drive	1	
3.22	8K	NSS	Plate, thrust	1	
3.22	9K	NSS	Seal, gasket	1	
3.22	10	300249-000	Cover-side, port	1	
3.22	11	202297	Washer, flat	2	
3.22	12	202296	Screw, cap	2	
3.22	13	202299	Plug, pipe	1	
3.22	14	300246-000	Gear, driven	1	
3.22	K	300250-000	Kit, seal	1	

(contains items marked with "K")

FIG	ITEM				# FOR	
#	#	PART #	NAME		ASSY.	UNIT
3.29	1	11176-01	Screw		1	
3.29	2	11897-03	Washer, seal		1	
3.29	3	40089-01	Tube, cylinder		1	89/180
3.29	3	40089-02	Tube, cylinder		1	95/198
3.29	3	40089-11	Tube, cylinder		1	95/210
3.29	3	40089-03	Tube, cylinder		1	107/226
3.29	3	40089-04	Tube, cylinder		1	111/240
3.29	3	40089-05	Tube, cylinder		1	119/258
3.29	3	40089-06	Tube, cylinder		1	127/276
3.29	3	40089-07	Tube, cylinder		1	137/300
3.29	3	40089-08	Tube, cylinder		1	143/318
3.29	3	40089-09	Tube, cylinder		1	149/330
3.29	4	40052-00	Nut		1	
3.29	5	40051-00	Plunger		1	
3.29	6	30612-01	Spring		1	
3.29	7	13857-01	Ball		1	
3.29	8	40047-00	Piston		1	
3.29	9K	NSS	Ring, wear		1	
3.29	10	40070-01	Rod		1	89/180
3.29	10	40070-02	Rod		1	95/198
3.29	10	40070-07	Rod		1	95/210
3.29	10	40070-03	Rod		1	107/226
3.29	10	40070-04	Rod		1	111/240
3.29	10	40070-05	Rod		1	119/258
3.29	10	40070-06	Rod		1	127/276
3.29	10	40070-08	Rod		1	137/300
3.29	10	40070-10	Rod		1	143/318
3.29	10	40070-11	Rod		1	149/330
3.29	11K	NSS	O ring		1	
3.29	12K	NSS	Ring, backup		1	
3.29	13	40068-00	Bearing		1	
3.29	14K	NSS	Ring, wear		1	
3.29	15K	NSS	Seal		1	
3.29	16K	NSS	Wiper		1	
3.29	K	41534-00	Kit, seal		1	
			(contains items marked with "K")			

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
4.4	7	52-07901-01	Wire, 16 Ga. black	As Req'd	
4.4	8	11823-10	Fitting, wire	1	
4.4	9	49922-01	Screw, machine	3	
4.4	10	NA	Rivet, pop (1/8" X 1/4")	As Req'd	
4.4	11	40679-00	Brush	2	
4.4	12	20151-00	Switch, key	1	
4.4	13	40238-00	Cover, instrument	1	
4.4	14	11695-06	Bushing	2	
4.4	15	11025-02	Ring, Retainer	1	
4.4	16	11018-08	Key	1	
4.4	17	14993-30	Washer	1	
4.4	18	11695-01	Bushing	2	
4.4	19	49892-10	Screw, machine	2	
4.4	20	49991-00	Grommet, rubber	2	
4.4	21	11170-05	Nut	2	
4.4	22	41364-00	Valve, lift control (See Fig.# 3.22)	1	
4.4	23	49717-01	Nut	4	
4.4	24	41324-00	Spacer	2	
4.4	25	11261-06	Nut	2	
4.4	26	11016-03	washer	2	
4.4	27	11018-11	Key	1	
4.4	28	11695-05	Bushing	2	
4.4	29	41309-00	Rod	1	
4.4	30	49612-06	Screw, cap	2	
4.4	31	41297-00	Block	1	
4.4	32	14993-20	Washer	2	
4.4	33	41313-00	Arm	1	
4.4	34	11271-31	Screw, set	2	
4.4	35	41312-00	Block	1	
4.4	36	41306-00	Arm	1	
4.4	37	49612-05	Screw, cap	2	
4.4	38	41314-00	Link	2	
4.4	39	11143-05	Screw, cap	1	
4.4	40	11016-03	Washer	2	
4.4	41	11170-06	Nut	1	
4.4	42	11419-03	Nut	2	
4.4	43	40694-00	Arm	1	
4.4	44	11047-13	Screw, machine	2	
4.4	45	49897-00	Joint, ball	2	
4.4	46	49896-00	Rod	1	
4.4	47	11129-03	Nut	2	
4.4	48	40403-00	Arm	1	
4.4	49	11885-04	Screw, machine	2	
4.4	50	24455-01	Switch, master (See Fig.# 2.000)	1	
4.4	51	41301-00	Handle	1	

FIG ITEM		PART #	NAME	# FOR ASSY.	UNIT
#	#				
4.11	1	11073-33	Pin, roll	1	
4.11	2	40245-00	Axle	1	
4.11	3	41159-00	Bracket	1	
4.11	4	40247-00	Pin	1	
4.11	5	40249-00	Plate	1	
4.11	6	11016-09	Washer	4	
4.11	7	40248-01	Shim, .005	As Req'd	
4.11	7	40248-02	Shim, .010	As Req'd	
4.11	7	40248-03	Shim, .062	As Req'd	
4.11	7	40248-04	Shim, .031	As Req'd	
4.11	8	49972-05	Seal	4	
4.11	9	11205-21	Bearing	4	
4.11	10	40222-00	Wheel	2	
4.11	11	11160-09	Fitting, grease	2	
4.11	*	202154	Adapter for grease gun	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
5.6	1	41469-00	Cylinder, tilt (See Fig.# 3.16)	1	
5.6	2	40499-00	Spacer	2	
5.6	3	40980-00	Frame, front	1	
5.6	3	41637-00	Frame, manlift front	1	
5.6	4	40641-00	Frame, fork	1	
5.6	5	40382-00	Pin	2	
5.6	6	11073-23	Pin, roll	2	
5.6	7	40988-01	Rest, load back	1	
5.6	8	14994-06	Screw, cap	4	
5.6	9	11852-14	Screw, flathead	4	
5.6	10	40593-00	Bar, wear	2	
5.6	11	40441-00	Shim, .060	As Req'd	
5.6	12	11073-04	Pin, roll	2	
5.6	13	13813-31	Shaft	2	
5.6	14	11009-08	Lockwasher	4	
5.6	15	41559-00	Cylinder, tilt (See Fig.# 3.16)	1	
5.6	16	49785-00	Bumper	2	
5.6	17	11857-06	Washer, shim	2	

FIG	ITEM			# FOR	
#	#	PART #	NAME	ASSY.	UNIT
5.13	1	30558-00	Anchor	2	
5.13	2	14835-36	Chain, lift	2	89/180
5.13	2	14835-37	Chain, lift	2	89/192
5.13	2	14835-37	Chain, lift	2	95/198
5.13	2	14835-07	Chain, lift	2	95/210
5.13	2	14835-27	Chain, lift	2	108/226
5.13	2	14835-38	Chain, lift	2	111/240
5.13	2	14835-39	Chain, lift	2	119/256
5.13	2	14835-45	Chain, lift	2	127/276
5.13	2	14835-46	Chain, lift	2	137/300
5.13	2	14835-56	Chain, lift	1	143/318
5.13	2	14835-76	Chain, lift	1	149/330
5.13	3	30554-00	Pin with cotter pin	2	
5.13	4	49837-00	Nut, wheel	2	
5.13	5	11486-12	Nut, jam	2	
5.13	6	40092-01	Cylinder, freelift (See Fig.# 3.29)	1	89/180
5.13	6	40092-10	Cylinder, freelift (See Fig.# 3.29)	1	89/192
5.13	6	40092-02	Cylinder, freelift (See Fig.# 3.29)	1	95/198
5.13	6	40092-11	Cylinder, freelift (See Fig.# 3.29)	1	95/210
5.13	6	40092-03	Cylinder, freelift (See Fig.# 3.29)	1	108/226
5.13	6	40092-04	Cylinder, freelift (See Fig.# 3.29)	1	111/240
5.13	6	40092-05	Cylinder, freelift (See Fig.# 3.29)	1	119/256
5.13	6	40092-06	Cylinder, freelift (See Fig.# 3.29)	1	127/276
5.13	6	40092-07	Cylinder, freelift (See Fig.# 3.29)	1	137/300
5.13	6	40092-08	Cylinder, freelift (See Fig.# 3.29)	1	143/318
5.13	6	40092-09	Cylinder, freelift (See Fig.# 3.29)	1	149/330
5.13	7	11160-09	Fitting, grease	2	
5.13	8	11831-06	Nut	1	
5.13	9	11016-08	Washer, flat	1	
5.13	10	30553-05	Washer, shim	1	
5.13	11	40045-00	Sheave	1	
5.13	12	49993-02	Race, inner	2	
5.13	13	49994-01	Bearing, roller	2	
5.13	14	30553-06	Washer, shim	5	
5.13	15	26519-02	Pin	1	
5.13	16	26389-00	Nut, spacer	1	
5.13	17	49941-01	Washer, belleville	6	
5.13	18	40565-00	Retainer	1	
5.13	19	11016-03	Washer, flat	2	
5.13	20	11143-03	Screw, cap	2	
5.13	21	41587-00	Sheave, chain	1	
5.13	22	41585-00	Sheave, cable	1	
5.13	23	41581-00	Shaft	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
6.7	1	49854-02	Connector, housing	1	
6.7	2	49852-02	Connector, tip	2	
6.7	3	49856-49	Cable, 65"	1	
6.7	4	49856-85	Cable, 83.5"	1	
6.7	5	20163-94	Wire	1	

PARTS ORDERING INSTRUCTIONS

HOW TO ORDER

When you order, supply the part number, quantity, model and serial numbers of your machine. Supplying this information will assure prompt, efficient handling of your order. The pictorial reference number is not needed and including it can only add confusion.

Since your dealer carries many parts in stock and maintains up-to-date prices on all parts, he will be able to process your order immediately. If, for some reason, the part is not in stock, he will order it from the factory. In either event, he maintains a current file of service manuals, which give all available parts ordering or technical information.

All prices are FOB factory in Muscatine, Iowa. Shipping charges are added to the price of the part shipping from the factory.

WHERE TO ORDER

Always order parts from the dealer who sold you your BT PRIME-MOVER. If it is necessary for the dealer to order parts from the factory, he is able to get prompt service for you. Parts are shipped in accordance with shipping instructions given on the order.

INSTRUCTIONS FOR RETURNING PARTS

Under NO CIRCUMSTANCES will parts be accepted at the factory for credit without prior approval. THE BT PRIME-MOVER Co. cannot accept responsibility for parts returned without authorization.

If you have some parts which must be returned, contact your dealer. If he believes parts should be returned, he will arrange for authorization to return the parts.

FIELD MODIFICATIONS

The regulations imposed by OSHA make it mandatory that alternation of industrial trucks be done only as approved in advance and in writing by the manufacturer. Their regulation apply to counter-weighting, changes in masts when such changes affect capacity and any other safety modifications. It is mandatory that nameplate and instructions be changed accordingly (1910.178 (a)(4)).

BT PRIME-MOVER will approve such changes requested as we can properly evaluate and rerate as to capacity. Normally a change will be evaluated upon receipt of a written request with full particulars including truck and mast serial number, proposed changes, new heights of lift, etc.

If the change is approved, authorization will be sent as will new nameplates or other labeling where appropriate. The new nameplates should be installed over the earlier nameplate.

The modifier should send confirmation of the change to the factory along with pictures of the revised truck.

FIGURE # 2.7 LIMIT SWITCH WIRING ASSEMBLY

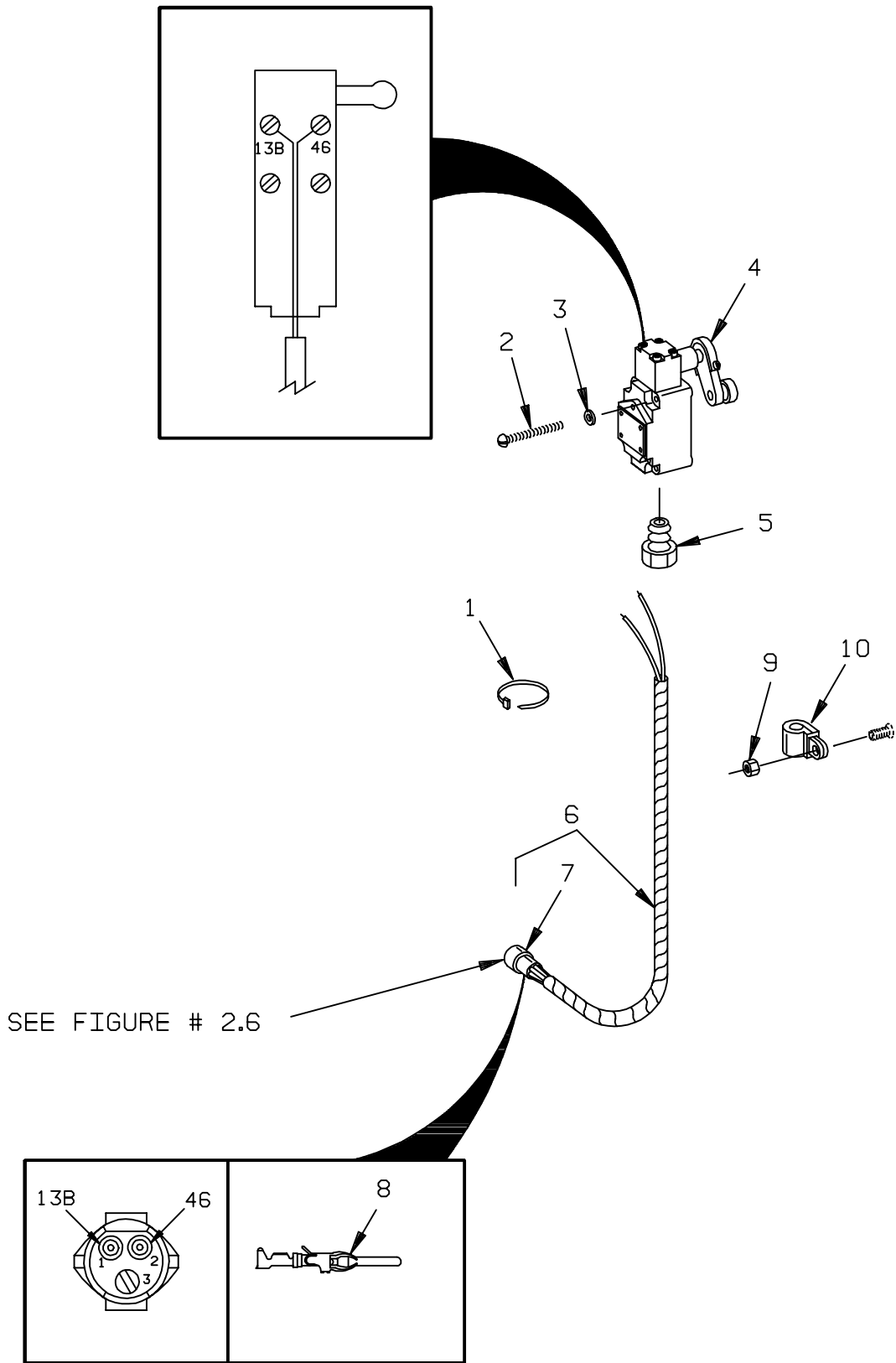


FIGURE # 2.14 EV-100LX CONTACTOR PANEL ASSEMBLY & RELATED PARTS FOR "E" AND "EE"

NOTE: USE HEAT CONDUCTING MATERIAL FROM DOW #340 BETWEEN THE BACK PLATE AND COMPONENT PARTS.

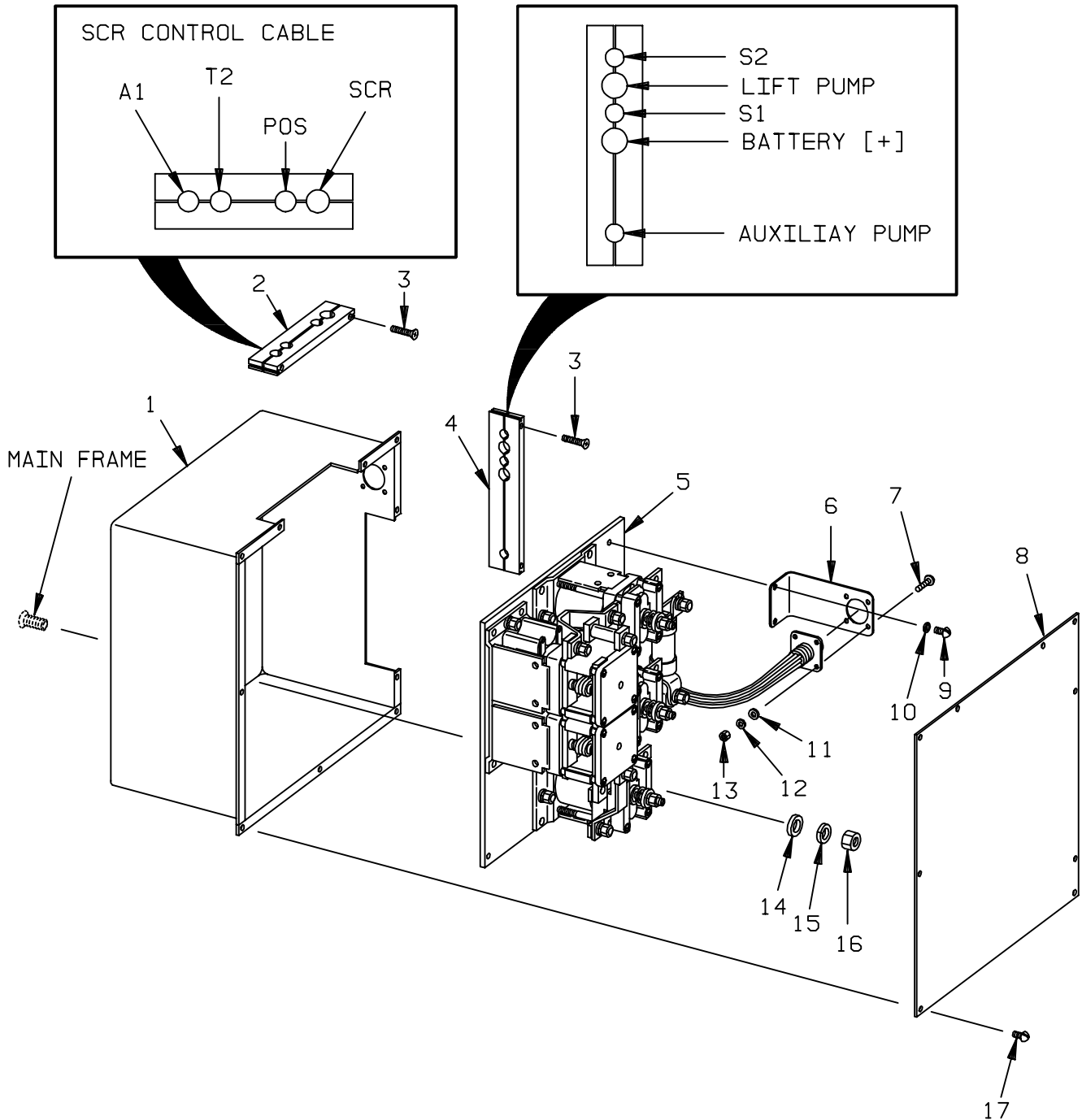


FIGURE # 2.21 LIFT PUMP MOTOR ASSEMBLY, 24 VOLT (27900-00, 5BT1324B54) G.E.
LIFT PUMP MOTOR ASSEMBLY, 36 VOLT (27899-00, 5BT1326B234) G.E.

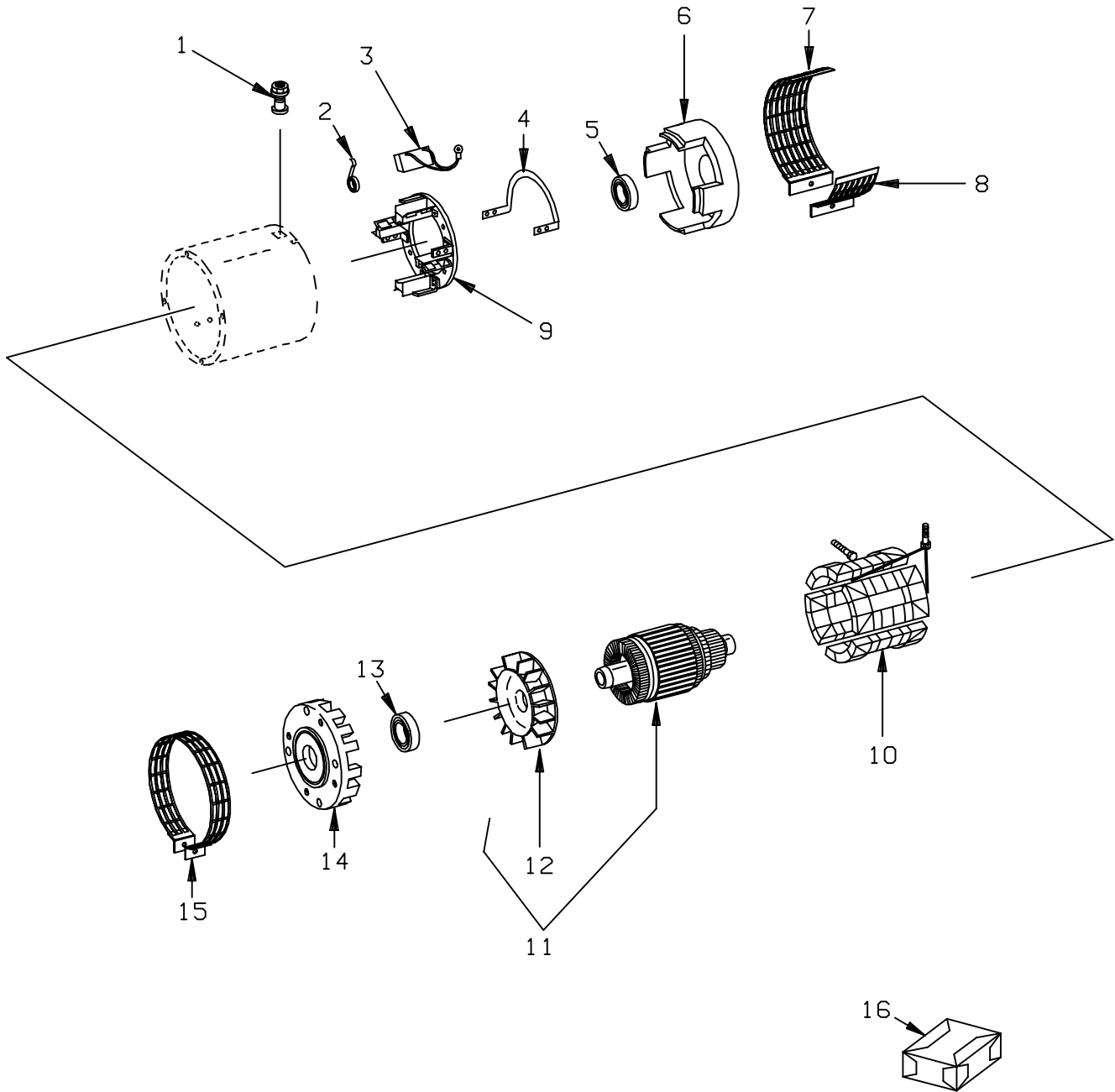


FIGURE # 3.1 HYDRAULIC SCHEMATIC

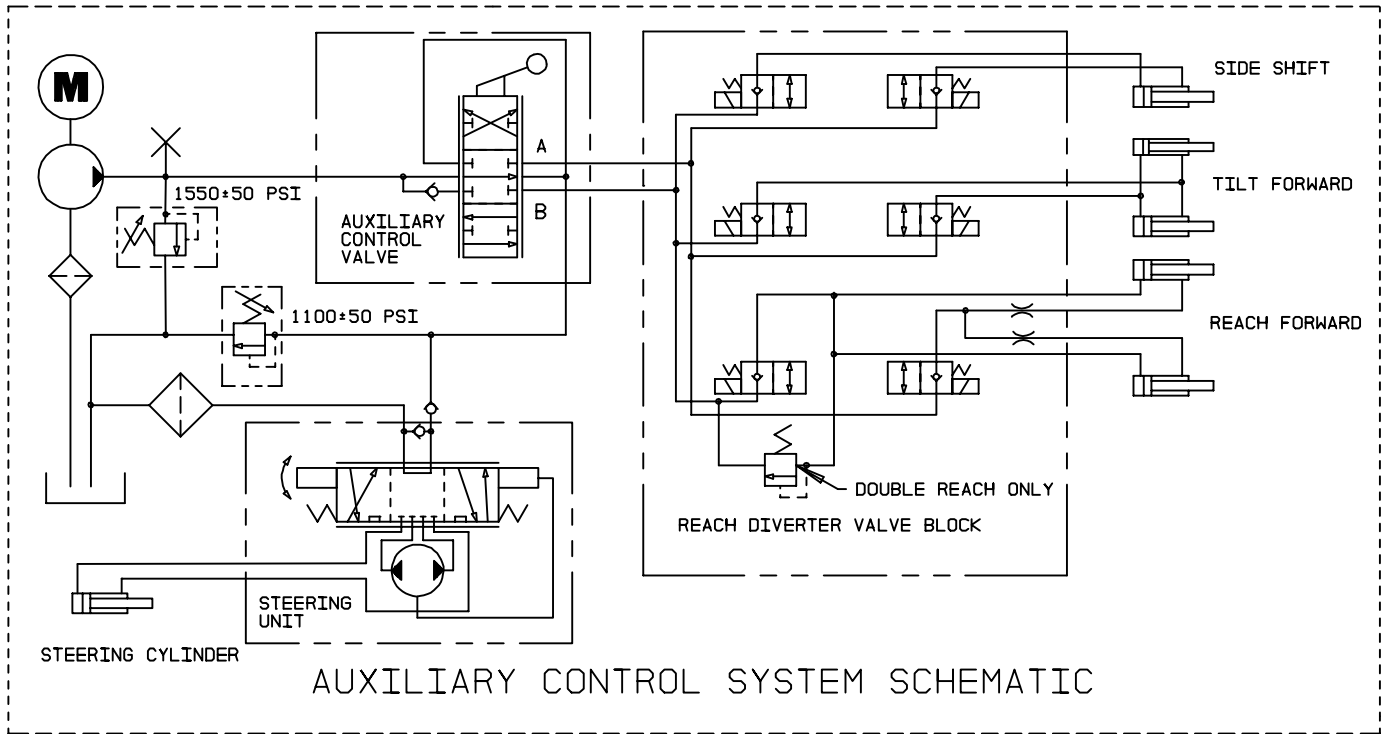
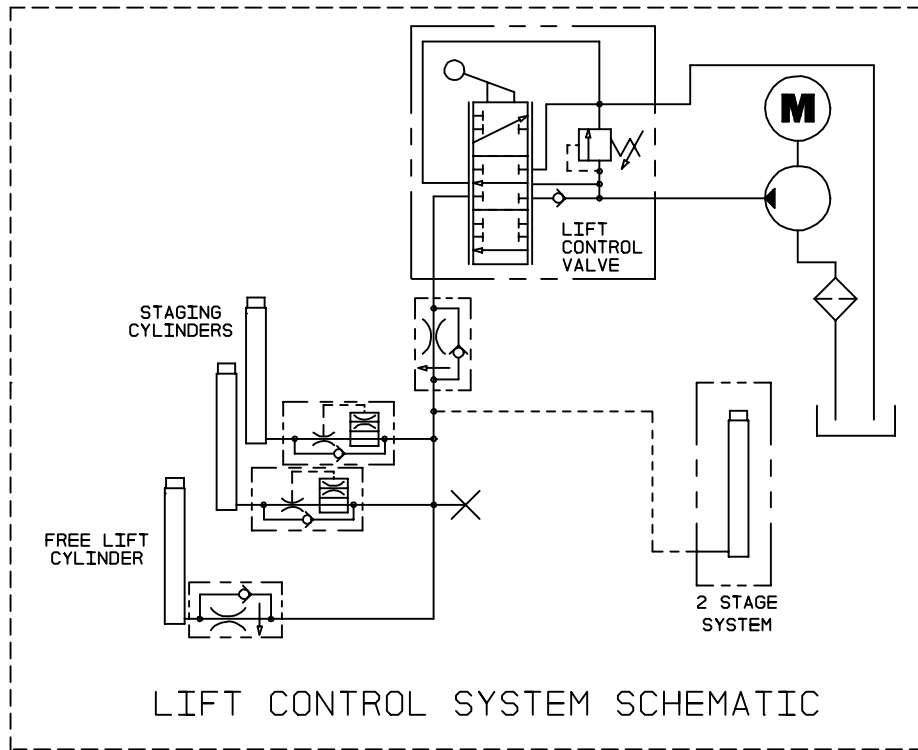


FIGURE # 3.9 STEERING CONTROL VALVE AND HOSE ASSEMBLY

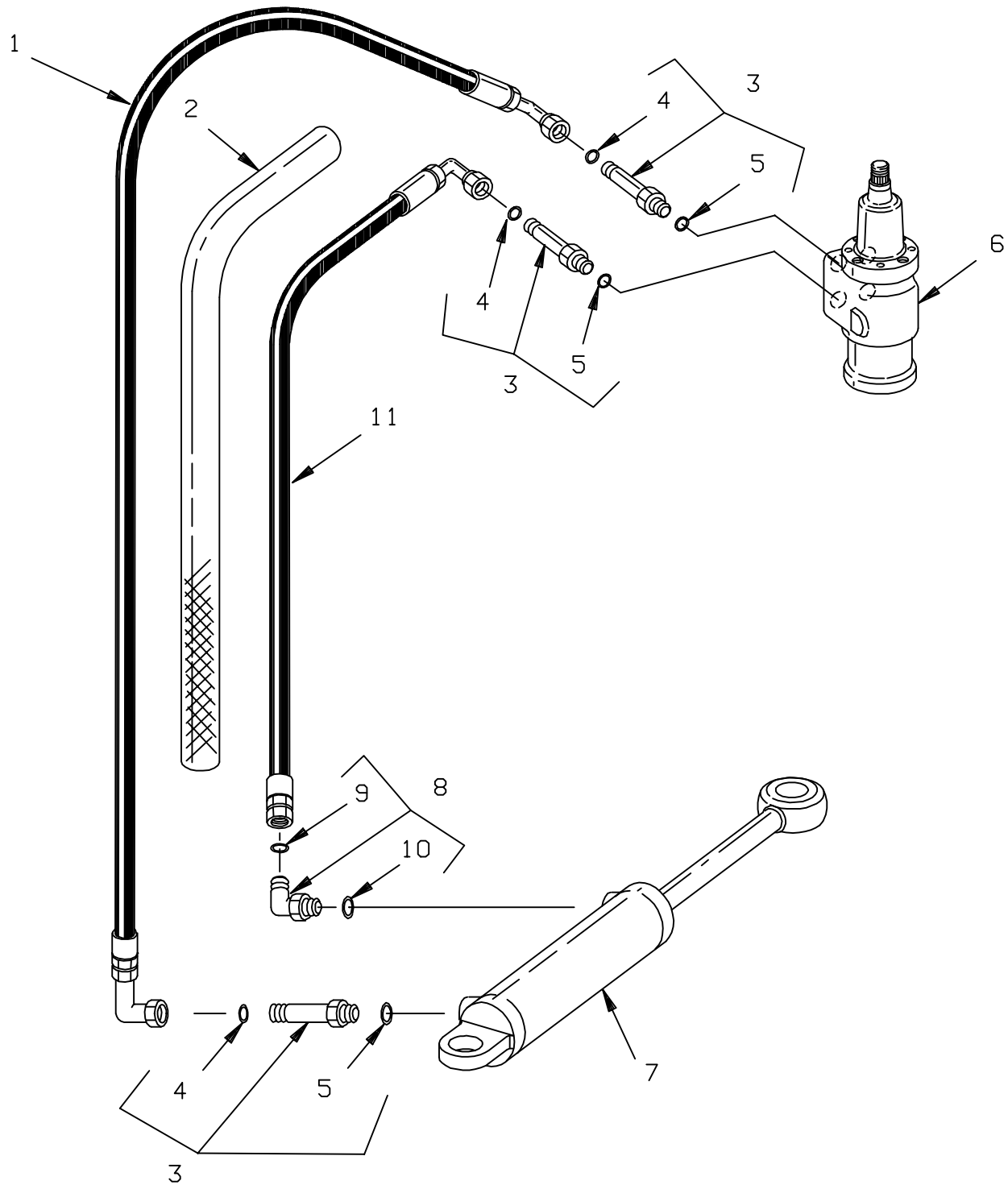


FIGURE # 3.16 SINGLE REACH, TILT AND SIDESHIFT HOSE INSTALLATION

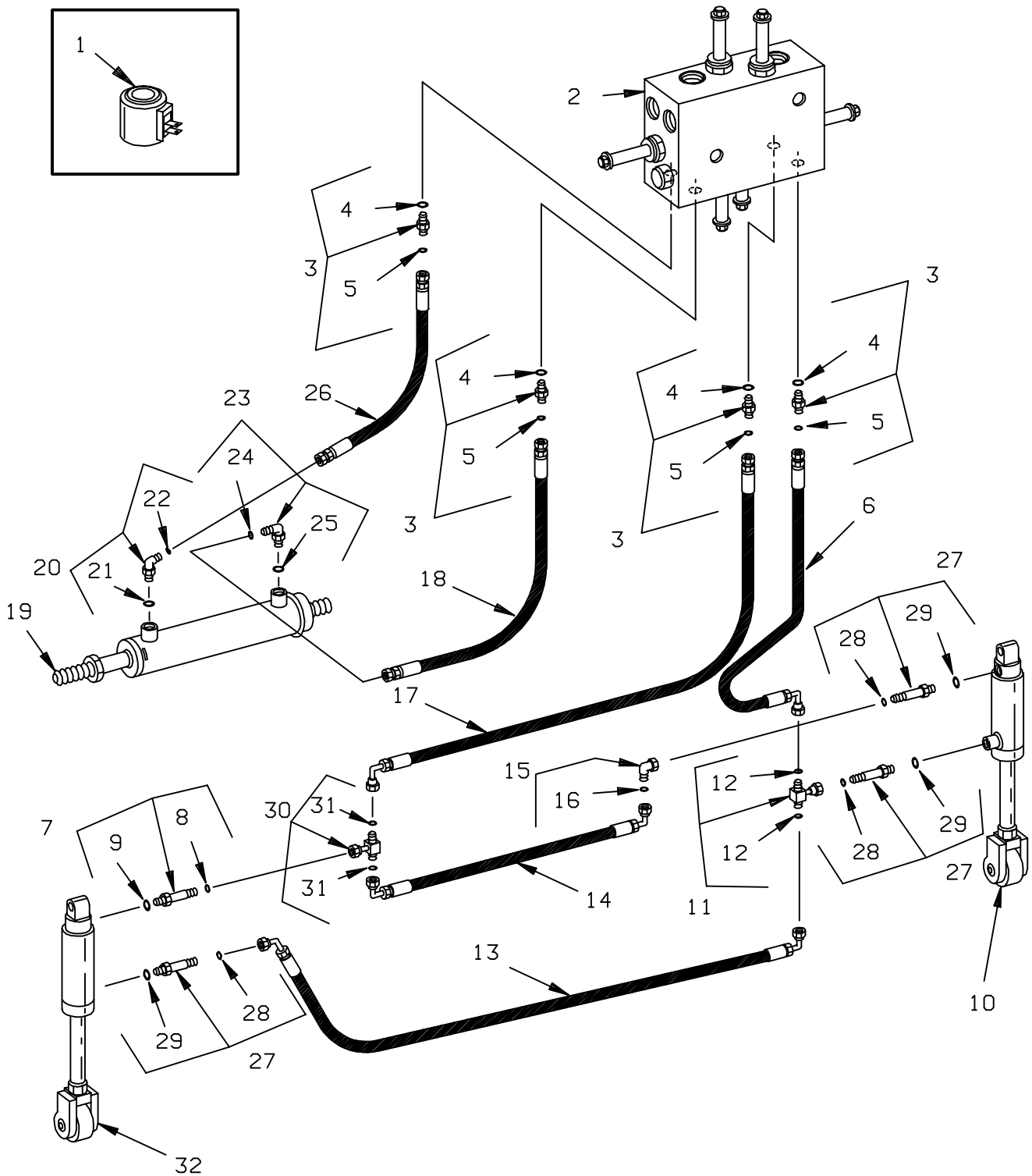


FIGURE # 3.23 LIFT PUMP MOTOR ASSEMBLY

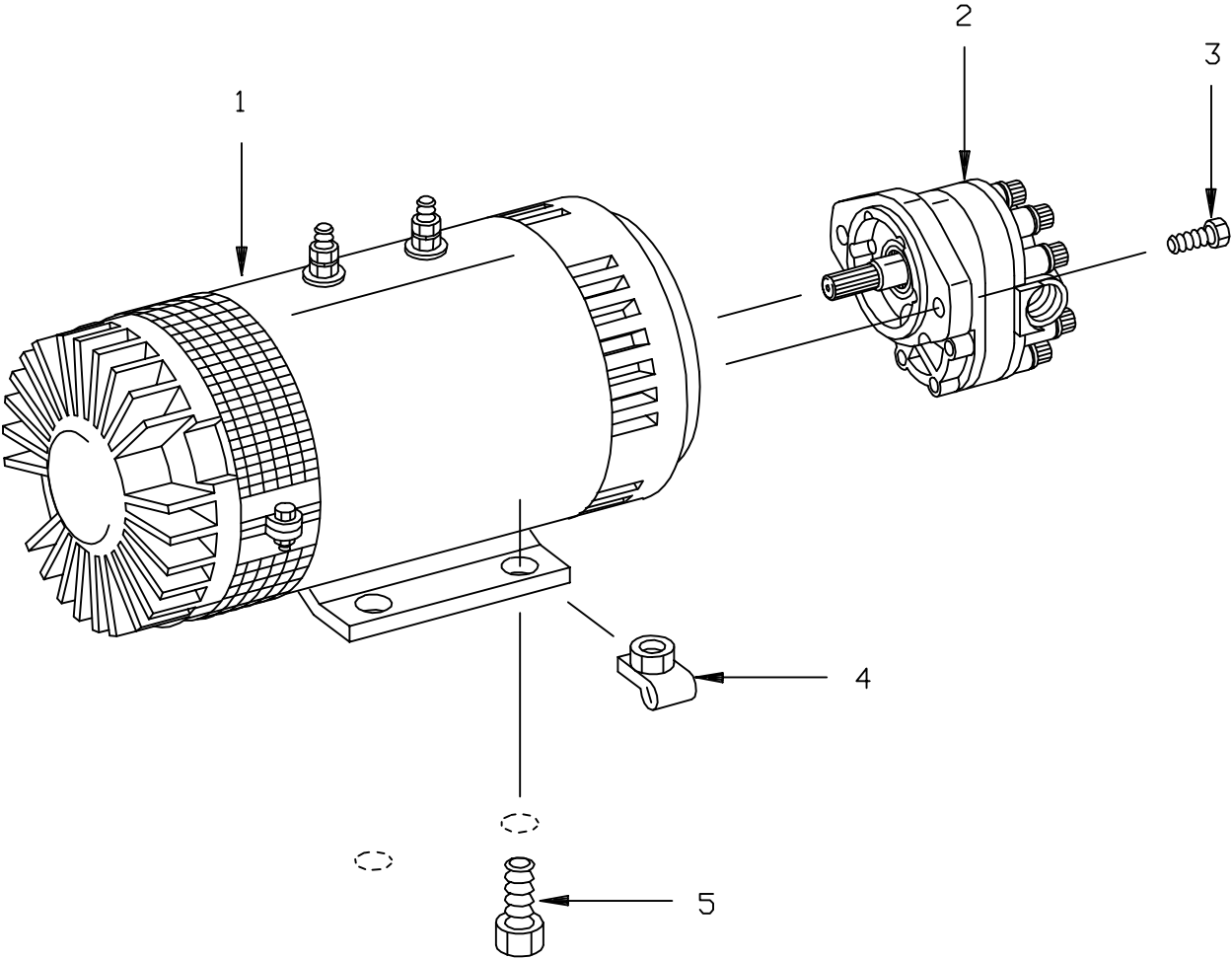


FIGURE # 3.30 THREE STAGE STAGING CYLINDER ASSEMBLY (40891-XX)

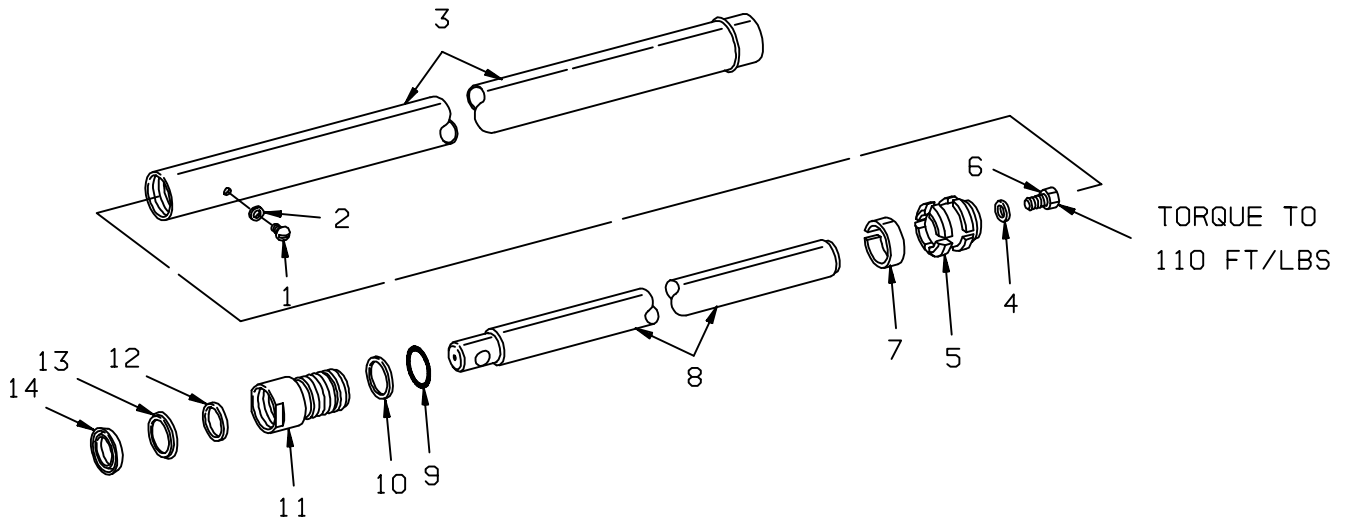


FIGURE # 4.2 EMERGENCY DISCONNECT ASSEMBLY

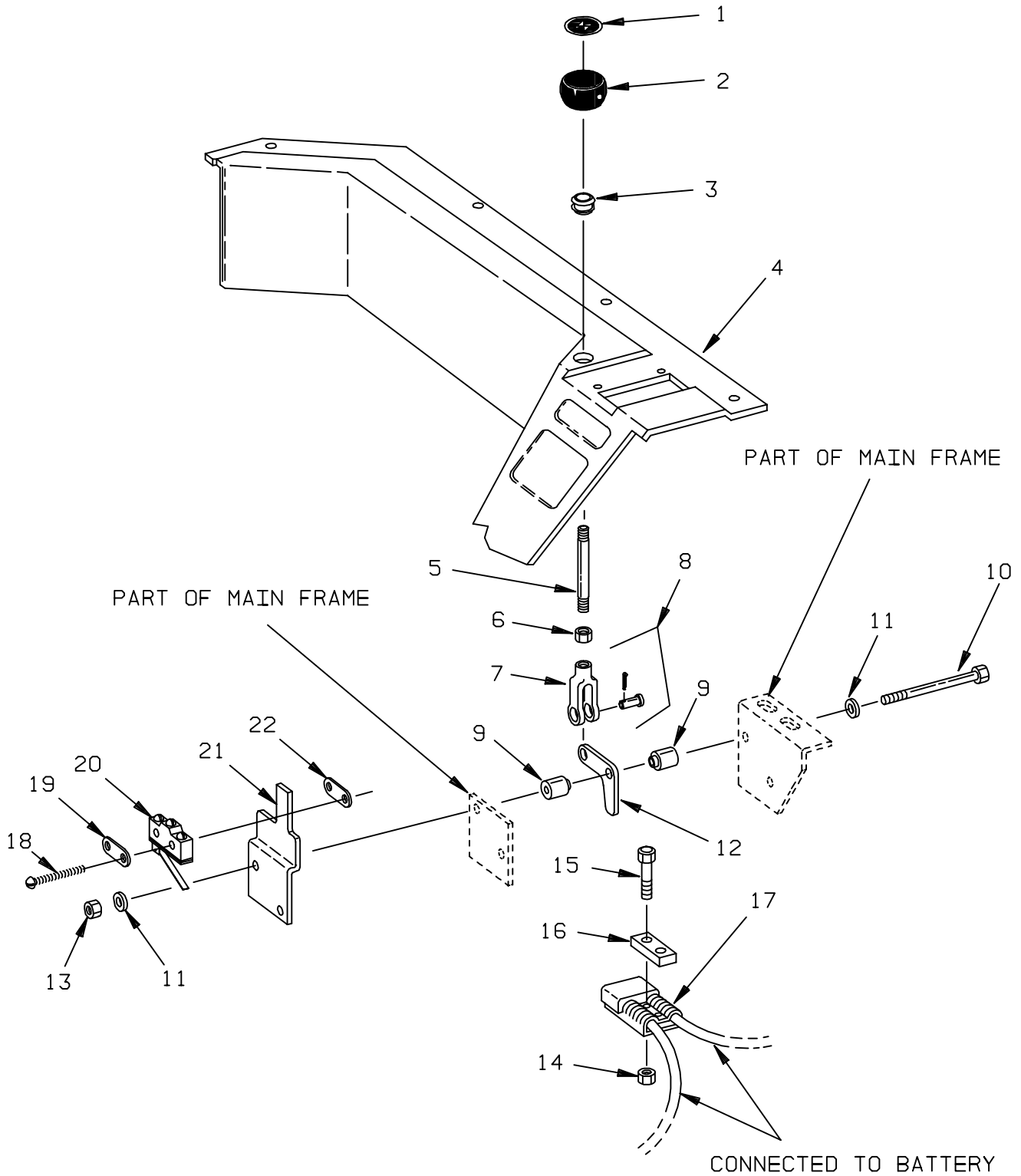


FIGURE # 4.9 SINGLE LOAD WHEEL ASSEMBLY

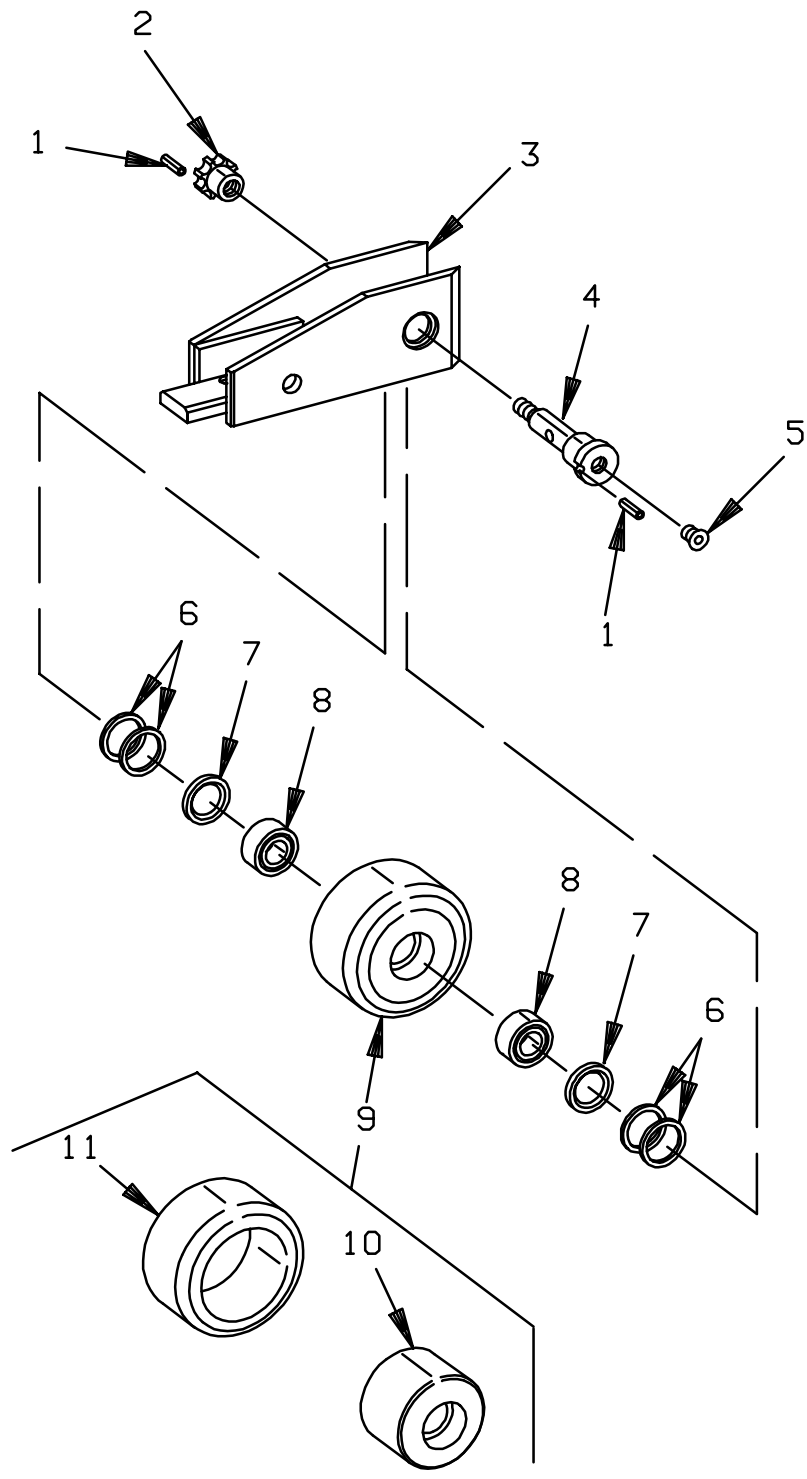


FIGURE # 5.5 TWO STAGE SINGLE REACH ASSEMBLY

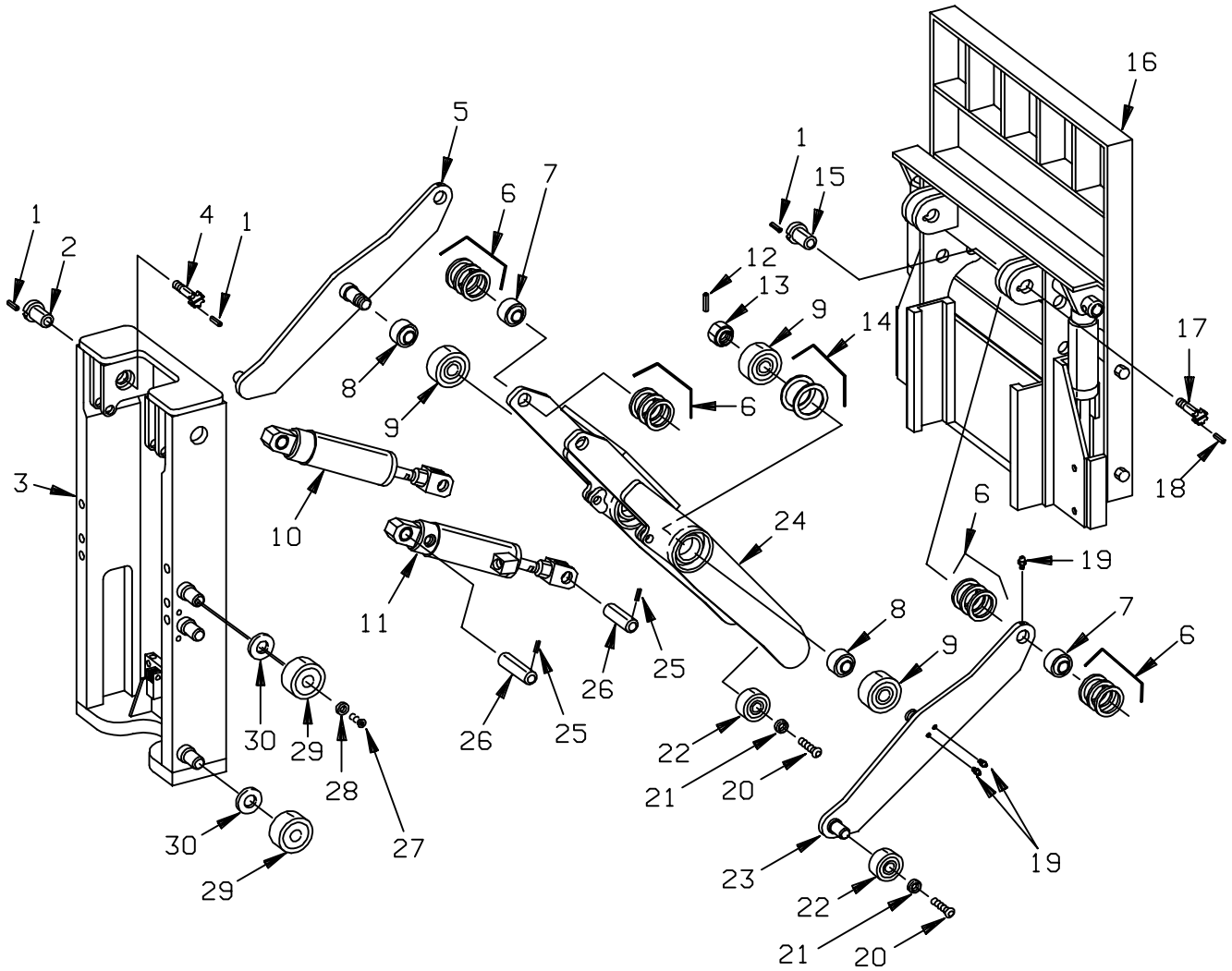


FIGURE # 5.12 THREE STAGE INNER COLUMN ASSEMBLY

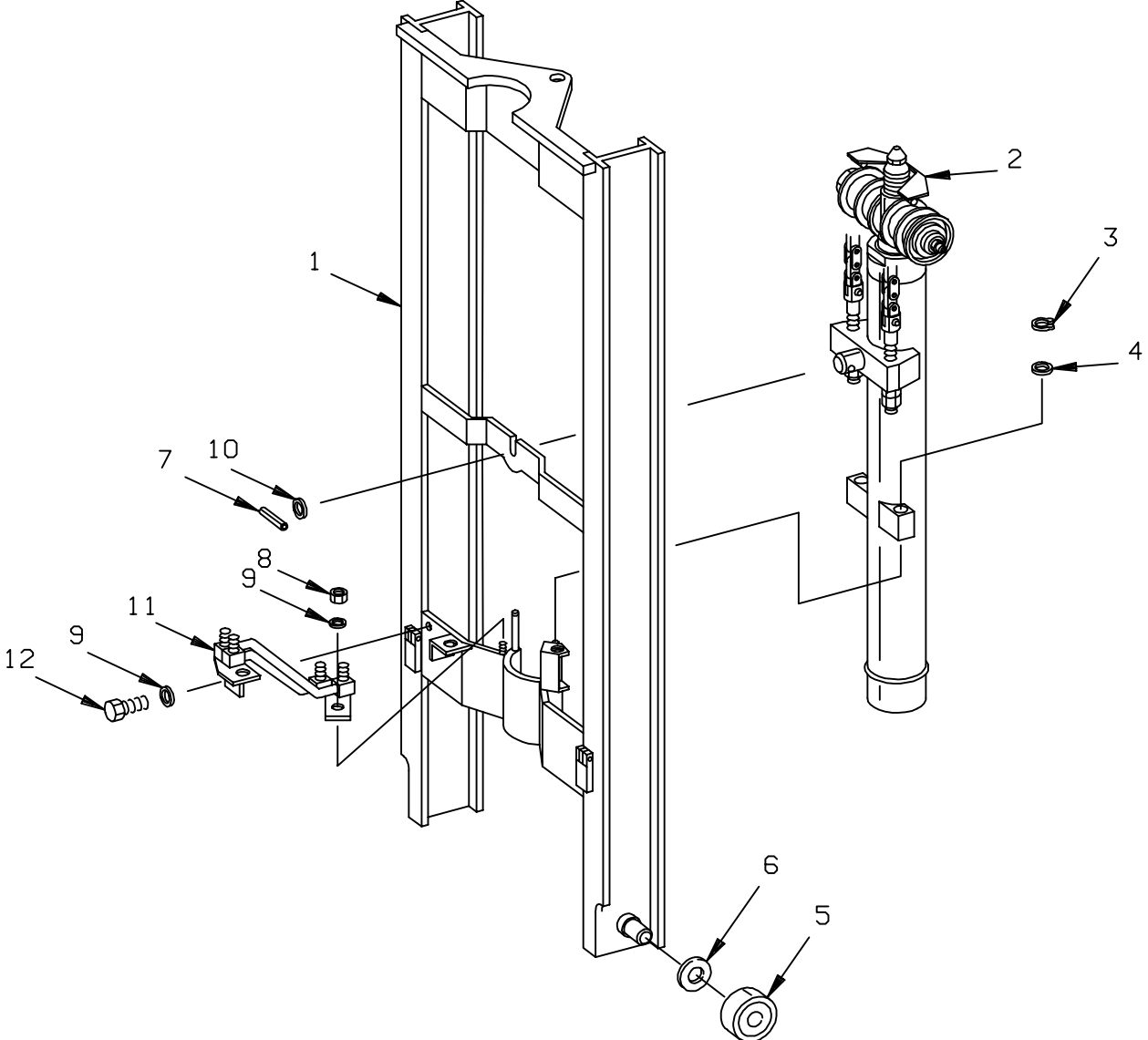


FIGURE # 5.19 THREE STAGE DOUBLE REACH FRONT FRAME ASSEMBLY

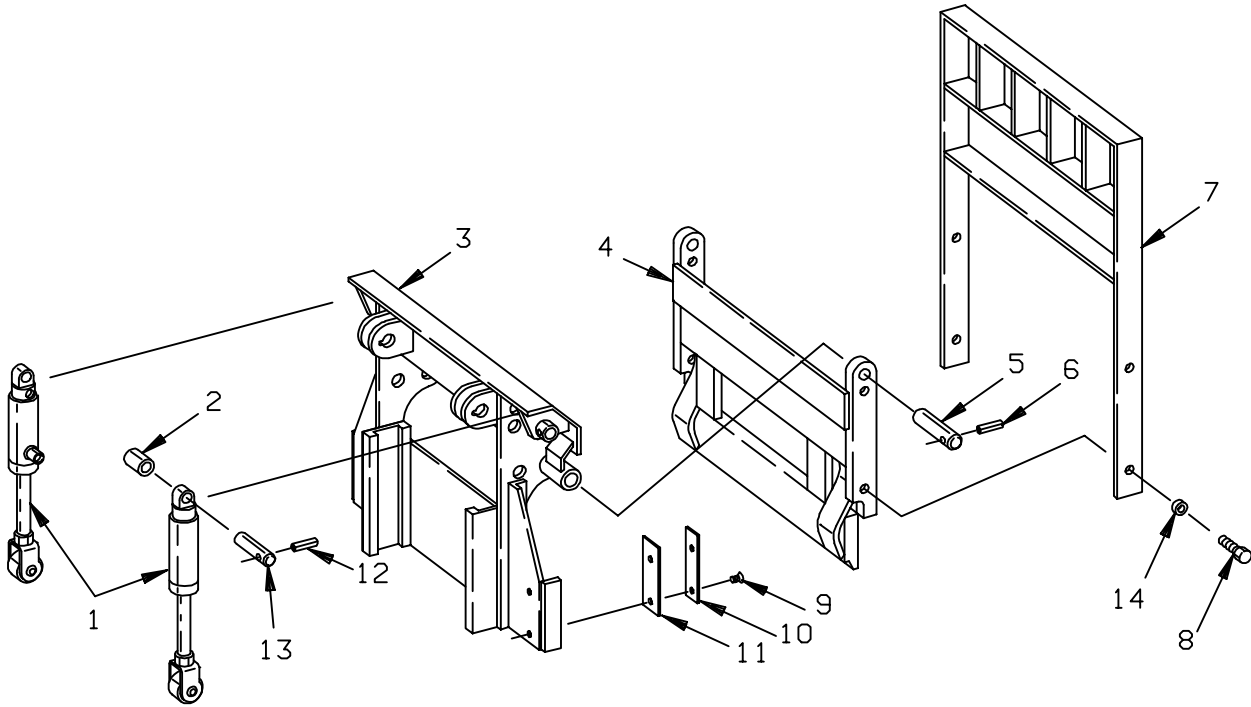


FIGURE # 6.6 MANLIFT POWER COMPONENT WIRING

NOTE: USE HEAT CONDUCTING MATERIAL FROM DOW #340 BETWEEN THE BACK PLATE AND COMPONENT PARTS.

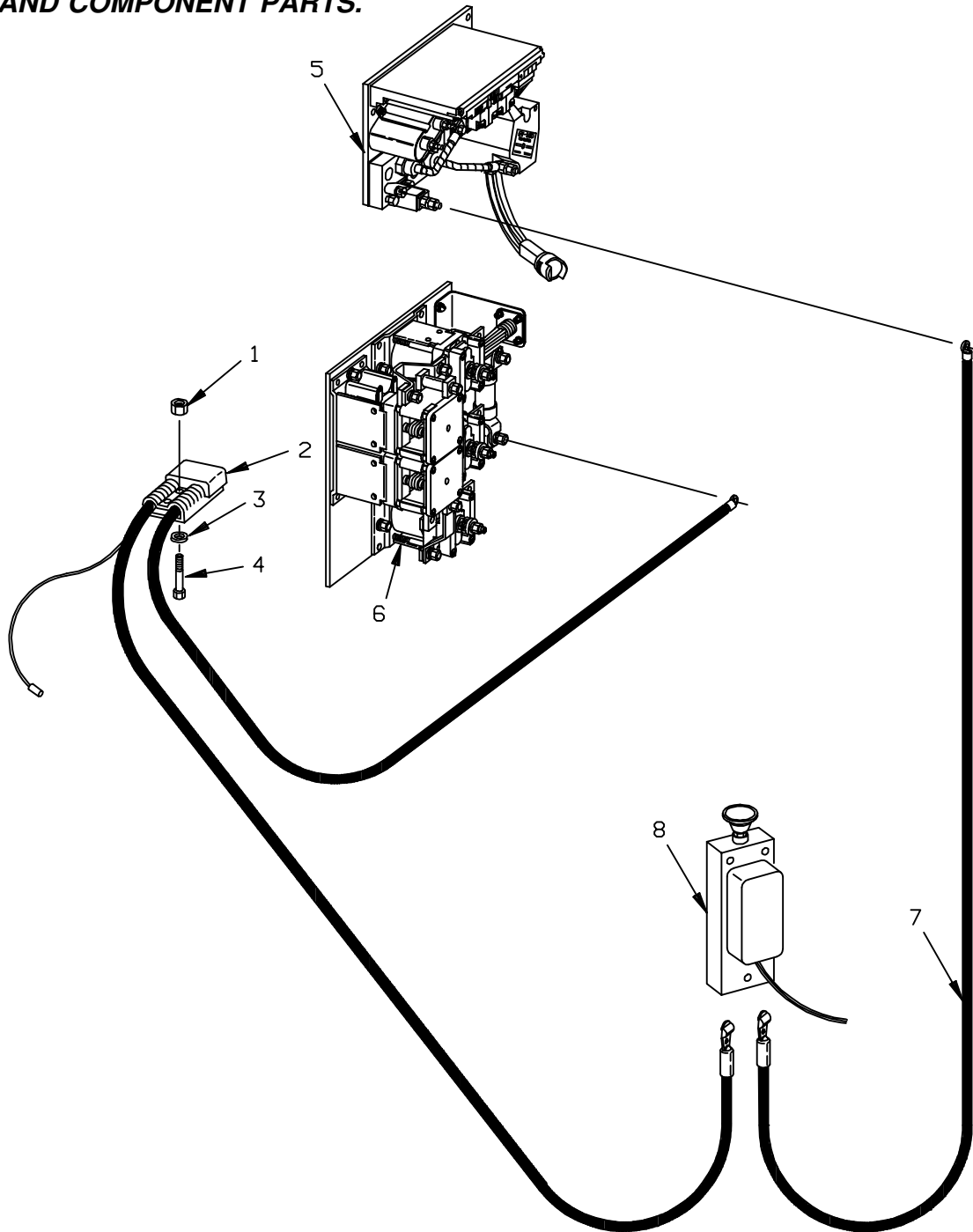
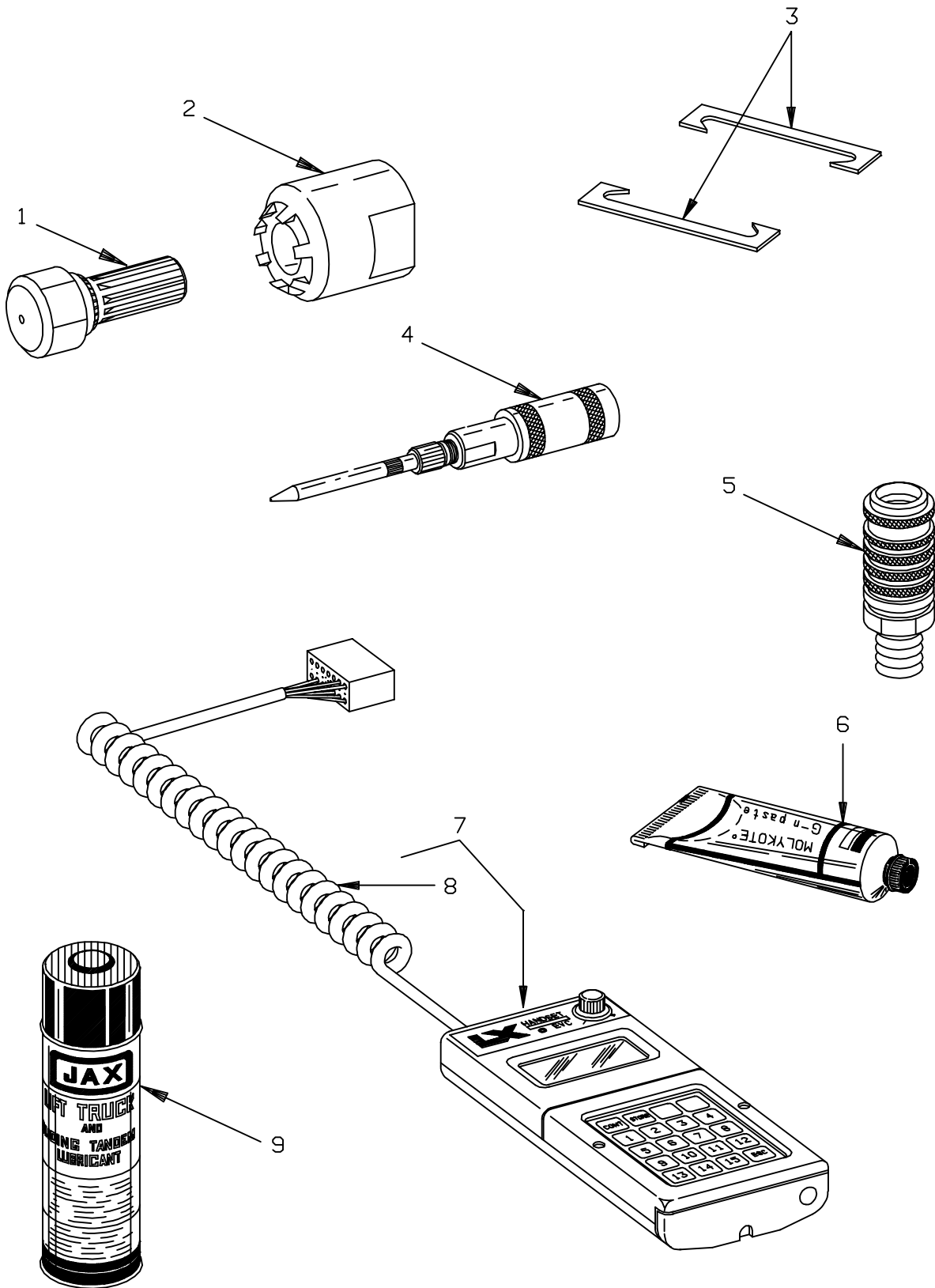


FIGURE # 10.1 SPECIAL TOOLS AND LUBRICATIONS



MODEL RR-45 ELECTRIC REACH TRUCK

NUMERICAL INDEX

<u>PART #</u>	<u>FIG. #</u>	<u>ITEM #</u>	<u>PART #</u>	<u>FIG.#</u>	<u>ITEM #</u>
40247-00	4.10	4	40382-00	5.6	5
40248-01	4.11	7	40382-00	5.8	5
40248-01	4.10	7	40382-00	5.19	5
40248-02	4.10	7	40382-00	5.17	5
40248-02	4.11	7	40394-00	4.4	43
40248-03	4.10	7	40402-00	4.4	5
40248-03	4.11	7	40408-00	3.21	3
40248-04	4.11	7	40408-00	3.17	3
40248-04	4.10	7	40410-00	4.5	18
40249-00	4.10	5	40412-01	0.1	16
40253-00	4.9	10	40412-04	0.1	15
40254-00	4.9	11	40412-04	2.29	2
40256-00	4.9	4	40414-00	0.1	10
40263-00	1.1	17	40414-00	4.2	16
40265-00	4.7	33	40415-00	4.1	9
40267-00	1.3	31	40416-00	2.6	9
40274-00	4.2	5	40416-00	4.4	1
40275-01	4.2	12	40418-00	4.1	21
40285-00	3.10	9	40419-00	4.1	7
40286-00	3.10	13	40420-00	4.1	14
40290-00	3.10	3	40421-00	4.1	6
40295-00	4.5	12	40425-00	1.1	2
40323-00	3.7	4	40441-00	5.6	11
40345-00	5.16	24	40441-00	5.8	11
40345-00	5.5	24	40441-00	5.17	11
40353-03	3.28	3	40441-00	5.19	11
40354-00	5.7	50	40465-00	4.9	9
40354-00	5.16	21	40467-00	5.11	12
40354-00	5.5	21	40467-01	5.1	21
40354-00	5.18	50	40470-00	3.10	K
40355-01	5.5	23	40472-00	5.1	25
40355-01	5.16	23	40472-00	5.11	22
40355-02	5.16	5	40473-00	1.3	10
40355-02	5.5	5	40473-00	1.4	4
40356-00	5.5	13	40482-01	4.4	2
40356-00	5.16	13	40486-00	5.11	13
40357-01	5.7	7	40486-01	5.4	26
40357-01	5.5	15	40488-00	3.15	1
40357-01	5.16	15	40492-00	3.15	3
40357-01	5.18	7	40495-00	3.15	6
40357-02	5.16	2	40495-00	3.20	5
40357-02	5.5	2	40499-00	5.6	2
40358-01	5.7	9	40499-00	5.8	2
40358-01	5.5	17	40499-00	5.17	2
40358-01	5.16	17	40499-00	5.19	2
40358-01	5.18	9	40514-00	5.1	1
40358-02	5.5	4	40518-01	5.3	9
40358-02	5.16	4	40518-02	5.3	9
40359-00	5.7	10	40518-03	5.3	9
40359-00	5.5	18	40518-04	5.3	9
40359-00	5.16	18	40527-01	5.2	3
40359-00	5.18	10	40527-02	5.2	3

ALPHABETICAL INDEX

NAME	FIG.#	PAGE #
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Five Inch High Articulating Load Wheel Assembly	4.10	4.19
Four Inch High Articulating Load Wheel Assembly	4.11	4.21
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Hand Lift/Lower and Speed Control	4.4	4.7
Hand Lift/Lower and Speed Control For 3 Function Control Handle	4.12	4.23
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Hydraulic Schematic for 3 Function Control Handle	3.36	3.69
Hydraulic Schematic Symbols	3.37	3.70
Hydraulic Schematic Symbols	3.2	3.2
Hydraulic Reservoir Assembly	3.7	3.11
Idler Wheel Assembly	4.7	4.13
Idler Wheel Brake Cylinder	3.35	3.67
Idler Wheel Installation	4.6	4.11
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Lift Pump Assembly	3.24	3.45
Lift Pump Contactor Assembly	2.18	2.31
Lift Pump Motor Assembly	3.23	3.43
Lift Pump Motor Assembly	3.25	3.47
Lift Pump Motor Assembly	2.21	2.37
Lift Pump and Reservoir Assembly	3.22	3.41
Limit Switch Wiring Assembly	2.7	2.9
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Main Frame and Load Wheel Assembly	4.8	4.15
Power Connector Assembly	2.20	2.35
<u>Q, R</u>		
Remote Lift/Lower Connector Assembly	6.7	6.11
Remote Lift/Lower EV-100 LX SCR Electrical Schematic	6.1	6.1
Remote Lift/Lower EV-100 LX SCR Electrical Schematic Symbols	6.2	6.2
Remote Lift/Lower Hydraulic Diagram	6.10	6.15
Remote Lift/Lower Hydraulic Schematic	6.8	6.13
Remote Lift/Lower Hydraulic Schematic Symbols	6.9	6.14
Remote Lift/Lower Load Backrest Installation	6.13	6.21
Remote Lift/Lower Power Component Wiring	6.6	6.9
Remote Lift/Lower Reach and Platform Cable Assembly	6.5	6.7
Remote Lift/Lower Three Stage Mast Cable Assembly	6.4	6.5
Remote Lift/Lower Valve Assembly	6.12	6.19
Remote Lift/Lower Wiring Harness Assembly	6.3	6.3

FIGURE # 2.2 "E" EV-100LX SCR ELECTRICAL SCHEMATIC SYMBOLS

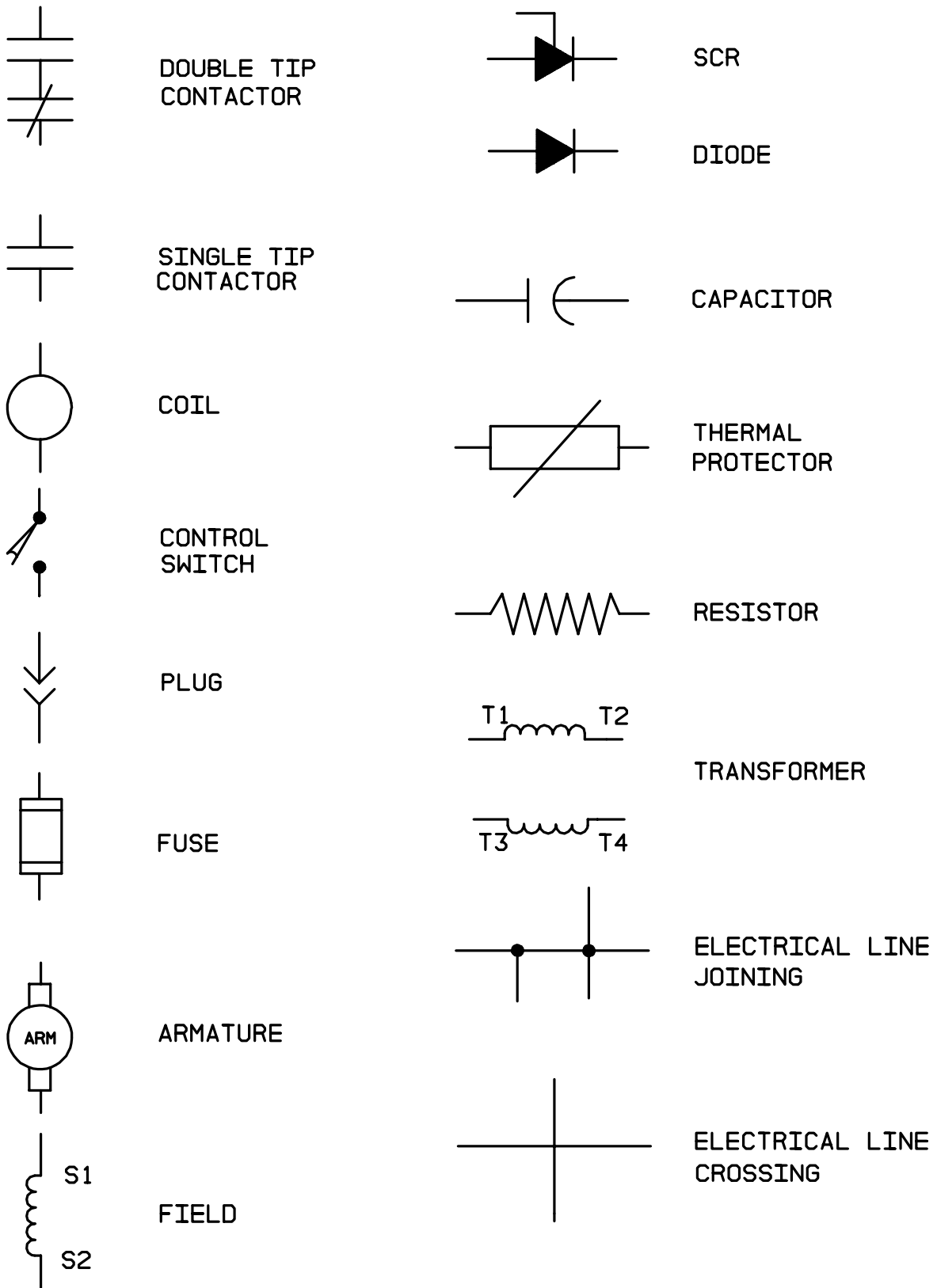


FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
2.10	1	41242-00	Valve, single diverter (See Fig.# 3.14)	1	
2.10	2	41255-00	Cable	1	
2.10	3	49611-00	Receptacle	1	
2.10	4	49610-00	Pin	4	
2.10	5	41243-01	Coil, 24 volt	As Req'd.	24 volt
2.10	5	41243-00	Coil, 36 volt	As Req'd.	36 volt

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
2.17	1	201962	Base, magnet	1	
2.17	2	200077	Coil, field	1	
2.17	3	201963	Frame, magnet	1	
2.17	4	201262	Spring (RED)	1	
2.17	5	201964	Armature	1	
2.17	6	200081	Base, buss	1	
2.17	7	201965	Tip, contact	2	
2.17	8	200096	Bushing	1	
2.17	9	200095	Carrier	1	
2.17	10	201966	Tip, movable	1	
2.17	11	201259	Cap	1	
2.17	12	201266	Spring (GOLD)	1	
2.17	13	201367	Washer, flat	1	
2.17	14	201215	Nut, lock	1	
2.17	15	201967	Clamp	2	
2.17	16	201368	Lockwasher	4	
2.17	17	201372	Screw, machine	4	
2.17	18	202004	Suppression, 1A contactor	1	
2.17	19	200094	Seat	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
2.24	1	29030-01	Light, 24 volt flashing	1	24 volt
2.24	1	29030-02	Light, 36 volt flashing	1	36 volt
2.24	2	NSS	Lens	1	
2.24	3	NSS	Reflector	1	
2.24	4	300792-000	Bulb, 24 volt (FLASHING ONLY)	1	24 volt
2.24	4	300793-000	Bulb, 36 volt (FLASHING ONLY)	1	36 volt
2.24	5	NSS	Screw	3	
2.24	6	NSS	Base	1	
2.24	7	11016-02	Washer, flat	2	
2.24	8	11170-05	Nut	2	
2.24	9	11823-06	Connector, butt	2	
2.24	10	52-07901-03	Wire, red #16 AWG (16 feet)	As Req'd.	
2.24	11	11854-06	Screw, cap	2	
2.24	12	11823-27	Connector, #6 stud	1	
2.24	13	25332-01	Tie, wire	8	
2.24	14	11823-12	Connector, 3/8" stud	2	
2.24	15	52-07901-01	Wire, black #16 AWG (14 feet)	As Req'd.	
2.24	16	49680-00	Hanger	1	
2.24	17	29831-00	Light, strobe (red)	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.3	1	49594-02	Diagnostic	1	
3.3	2	49649-02	Reducer	1	
3.3	3	49604-01	O-ring	1	
3.3	4	49651-02	Tee	1	
3.3	5	49604-02	O-ring	1	
3.3	6	12391-06	O-ring	1	
3.3	7	49642-04	Hose	1	
3.3	8	49596-00	Valve, relief	1	
3.3	9	49651-01	Tee	2	
3.3	10	49604-01	O-ring	2	
3.3	11	12391-05	O-ring	1	
3.3	12	42019-00	Valve, relief	1	
3.3	13	49652-01	Tee	1	
3.3	14	12391-05	O-ring	1	
3.3	15	49604-01	O-ring	1	
3.3	16	49597-01	Elbow, 90°	2	
3.3	17	12391-05	O-ring	1	
3.3	18	42018-00	Tee	1	
3.3	19	49604-01	O-ring	2	
3.3	20	49517-12	Hose	1	
3.3	21	49582-00	Hose	1	
3.3	22	49655-01	Adapter, long	2	
3.3	23	49604-01	O-ring	1	
3.3	24	12391-05	O-ring	1	
3.3	25	41331-00	Aux. Control Valve Assy. (See Fig. #3.4)	1	
3.3	26	49582-01	Hose	1	
3.3	27	-----	Reservoir Assy. (See Fig. #3.7)	1	
3.3	28	40102-01	Steering control valve assy.(See Fig. #3.8)	1	
3.3	29	49653-01	Elbow, 90°	2	
3.3	30	49604-01	O-ring	1	
3.3	31	12391-05	O-ring	1	
3.3	32	49517-03	Hose	1	
3.3	33	49956-02	Filter Assembly	1	
3.3	34	201435	Element, filter	1	
3.3	35	49666-12	Reducer	2	
3.3	36	12391-08	O-ring	1	
3.3	37	11045-03	Screw, cap	2	
3.3	38	11009-04	Lockwasher	2	
3.3	39	49653-01	Elbow, 90°	1	
3.3	40	12391-05	O-ring	1	
3.3	41	49604-01	O-ring	1	
3.3	42	52-05104-00	Guard, hose	As Req'd.	
3.3	43	25332-01	Tie, wire	4	
3.3	44	52-05054-00	Hose (.8 feet)	As Req'd.	
3.3	45	14859-04	Clamp, hose	2	
3.3	46	49674-01	Elbow, beaded	1	
3.3	47	12391-07	O-ring	1	
3.3	48	49595-00	Check, valve	1	
3.3	49	49604-01	O-ring	1	
3.3	50	12391-05	O-ring	1	
3.3	51	49642-06	Hose	1	
3.3	52	49623-01	Elbow, 90°	1	
3.3	53	49604-01	O-ring	1	
3.3	54	49656-10	Adapter	1	
3.3	55	49604-01	O-ring	1	
3.3	56	49517-02	Hose	1	
3.3	57	300333-000	Aux. pump & motor assy. (See Fig. #3.5)	1	24 Volt
3.3	57	300334-000	Aux. pump & motor assy. (See Fig. #3.5)	1	36 Volt

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.10	1K	NSS	Wiper	1	
3.10	2K	NSS	Seal	1	
3.10	3	40290-00	Bearing	1	
3.10	4K	NSS	Ring, back-up	1	
3.10	5K	NSS	O ring	1	
3.10	6K	NSS	O ring	1	
3.10	7K	NSS	O ring	1	
3.10	8K	NSS	Ring, wear	1	
3.10	9	40285-00	Piston	1	
3.10	10K	NSS	Ring, wear	1	
3.10	11	14908-08	Locknut	1	
3.10	12	41545-00	Tube, cylinder	1	
3.10	13	40286-00	Rod, cylinder	1	
3.10	14	49929-08	Bearing	1	
3.10	K	40470-00	Kit, seal	1	

(CONTAINS ITEMS MARKED WITH "K")

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.17	1	11857-04	Washer	2	
3.17	2	22014-02	Bearing	1	
3.17	3	40408-00	Pin	1	
3.17	4	11073-16	Pin, roll	1	
3.17	5	40570-00	Clevis	1	
3.17	6	41221-00	Rod	1	
3.17	7	11806-12	Nut	1	
3.17	8K	NSS	Wiper, rod	1	
3.17	9K	NSS	Seal, rod	1	
3.17	10K	NSS	Ring, guide	1	
3.17	11	41222-00	Bearing	1	
3.17	12K	NSS	Ring, sealing	1	
3.17	13K	NSS	O ring	1	
3.17	14	11020-34	Bearing	1	
3.17	15	41470-00	Tube, left	1	LEFT
3.17	15	41558-00	Tube, right	1	RIGHT
3.17	16	31057-04	Retainer	1	
3.17	17	14908-08	Nut	1	
3.17	18	11016-27	Washer, flat	1	
3.17	19K	NSS	Ring, guide	1	
3.17	20	41472-00	Piston	1	
3.17	21K	NSS	O ring	1	
3.17	22K	NSS	O ring	1	
3.17	23K	NSS	Ring, sealing	1	
3.17	K	41213-00	Kit, seal	1	

(CONTAINS ITEMS MARKED WITH "K")

ITEMS 1-4 ARE **NOT PART** OF TILT CYLINDER ASSEMBLY AND ARE SOLD SEPARATELY.

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.23	1	41521-00	Motor, 24 volt lift pump (See Fig.# 2.21)	1	
3.23	1	41519-00	Motor, 36 volt lift pump (See Fig.# 2.21)	1	
3.23	2	41680-00	Pump, 24 volt lift (See Fig.# 3.24)"E"	1	
3.23	2	41178-00	Pump, 36 volt lift (See Fig.# 3.25)"E"	1	
3.23	2	41680-00	Pump, 36 volt lift (See Fig. #3.24)"EE"	1	
3.23	2	41680-02	Pump, 24 volt lift (See Fig. #3.24)"EE"	1	
3.23	3	11143-05	Screw, cap	2	
3.23	4	14851-04	Nut, clip	4	
3.23	5	50016-04	Screw, cap	4	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.30	1	49548-00	Screw	1	
3.30	2	11897-03	Washer, seal	1	
3.30	3	40892-01	Tube, 89/180 cylinder	1	89/180
3.30	3	40892-02	Tube, 95/198 cylinder	1	95/198
3.30	3	40892-02	Tube, 95/210 cylinder	1	95/210
3.30	3	40892-03	Tube, 107/226 cylinder	1	107/226
3.30	3	40892-04	Tube, 111/240 cylinder	1	111/240
3.30	3	40892-05	Tube, 119/258 cylinder	1	119/258
3.30	3	40892-06	Tube, 127/276 cylinder	1	127/276
3.30	3	40892-07	Tube, 137/300 cylinder	1	137/300
3.30	3	40892-08	Tube, 143/318 cylinder	1	143/318
3.30	3	40892-09	Tube, 149/330 cylinder	1	149/330
3.30	4	11016-05	Washer, flat	1	
3.30	5	41257-00	Piston	1	
3.30	6	11894-06	Screw, cap	1	
3.30	7K	NSS	Ring, wear	1	
3.30	8	40071-01	Rod, 89/180 cylinder	1	89/180
3.30	8	40071-02	Rod, 95/198 cylinder	1	95/198
3.30	8	40071-02	Rod, 95/210 cylinder	1	95/210
3.30	8	40071-03	Rod, 107/226 cylinder	1	107/226
3.30	8	40071-04	Rod, 111/240 cylinder	1	111/240
3.30	8	40071-05	Rod, 119/258 cylinder	1	119/258
3.30	8	40071-06	Rod, 127/276 cylinder	1	127/276
3.30	8	40071-07	Rod, 137/300 cylinder	1	137/300
3.30	8	40071-08	Rod, 143/318 cylinder	1	143/318
3.30	8	40071-09	Rod, 149/330 cylinder	1	149/330
3.30	9K	NSS	O ring	1	
3.30	10K	NSS	Ring, backup	1	
3.30	11	40067-00	Bearing	1	
3.30	12K	NSS	Ring, wear	1	
3.30	13K	NSS	Seal	1	
3.30	14K	NSS	Wiper	1	
3.30	K	41535-00	Kit, seal	1	

(CONTAINS ITEMS MARKED WITH "K")

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.38	1	49594-02	Diagnostic	1	
3.38	2	49649-02	Reducer	1	
3.38	3	49604-01	O ring	1	
3.38	4	49651-02	Tee	1	
3.38	5	49604-02	O ring	1	
3.38	6	12391-06	O ring	1	
3.38	7	49642-04	Hose	1	
3.38	8	49596-00	Valve, relief	1	
3.38	9	49651-01	Tee	2	
3.38	10	49604-01	O ring	2	
3.38	11	12391-05	O ring	1	
3.38	12	42019-00	Valve, relief	1	
3.38	13	49652-01	Tee	1	
3.38	14	12391-05	O ring	1	
3.38	15	49604-01	O ring	1	
3.38	16	49597-01	Elbow, 90°	2	
3.38	17	12391-05	O ring	1	
3.38	18	42018-00	Tee	1	
3.38	19	49604-01	O ring	2	
3.38	20	49517-12	Hose	1	
3.38	21	49430-00	Hose	1	
3.38	22	49430-03	Hose	1	
3.38	23	49656-01	Adapter	2	
3.38	24	49604-01	O ring	1	
3.38	25	12391-05	O ring	1	
3.38	26	49653-01	Elbow, 90°	3	
3.38	27	49604-01	O ring	1	
3.38	28	12391-05	O ring	1	
3.38	29	42062-00	Valve assembly, 24 Volt (See Fig.# 3.29)	1	24 VOLT
3.38	29	42062-01	Valve assembly, 36 Volt (See Fig.# 3.29)	1	36 VOLT
3.38	30	-----	Reservoir assembly (See Fig.# 3.7)	1	
3.38	31	49623-01	Elbow, 90°	2	
3.38	32	49604-01	O ring	1	
3.38	33	40102-01	Steering control valve assembly (See Fig.# 3.8)	1	
3.38	34	49517-03	Hose	1	
3.38	35	49956-02	Filter assembly	1	
3.38	36	201435	Element, filter	1	
3.38	37	49666-12	Reducer	2	
3.38	38	12391-08	O ring	1	
3.38	39	49653-01	Elbow, 90°	1	
3.38	40	12391-05	O ring	1	
3.38	41	49604-01	O ring	1	
3.38	42	11009-04	Lockwasher	2	
3.38	43	11045-03	Screw, cap	2	
3.38	44	52-05104-00	Guard, hose	As Req'd.	
3.38	45	25332-01	Tie, wire	4	
3.38	46	52-05054-00	Hose (.8 feet)	As Req'd.	
3.38	47	14859-04	Clamp, hose	2	
3.38	48	49674-01	Elbow, beaded	1	
3.38	49	12391-07	O ring	1	
3.38	50	49595-00	Check, valve	1	
3.38	51	12391-05	O ring	1	
3.38	52	49604-01	O ring	1	
3.38	53	49642-06	Hose	1	
3.38	54	49656-10	Adapter	1	
3.38	55	49604-01	O ring	1	
3.38	56	12391-03	O ring	1	
3.38	57	49517-02	Hose	1	
3.38	58	300333-000	Auxiliary pump & motor assy., 24 VOLT (See Fig.# 3.5)	1	24 VOLT
3.38	58	300334-000	Auxiliary pump & motor assy., 36 VOLT (See Fig.# 3.5)	1	36 VOLT

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
4.4	1	40416-00	Handle assembly	1	
4.4	2	40482-01	Grip, hand	1	
4.4	3	14939-00	Switch, horn	1	
4.4	4	49887-01	Tubing, heat shrink	As Req'd.	
4.4	5	40402-00	Shaft	1	
4.4	6	11823-39	Fitting, wire	1	
4.4	7	52-07901-01	Wire, 16 Ga. black	As Req'd.	
4.4	8	11823-10	Fitting, wire	1	
4.4	9	49922-01	Screw, machine	3	
4.4	10	NA	Rivet, pop (1/8"x1/4")	As Req'd.	
4.4	11	40676-00	Brush	2	
4.4	12	20151-00	Switch, key	1	
4.4	13	40238-00	Cover, instrument	1	
4.4	14	11695-06	Bushing	2	
4.4	15	11025-02	Ring, retainer	1	
4.4	16	11018-08	Key	1	
4.4	17	14993-30	Washer	1	
4.4	18	11695-01	Bushing	2	
4.4	19	49892-10	Screw, machine	2	
4.4	20	49991-00	Grommet, rubber	2	
4.4	21	11170-05	Nut	2	
4.4	22	41364-00	Valve, lift control (See Fig.3.26)	1	
4.4	23	49717-01	Nut	4	
4.4	24	41324-00	Spacer	2	
4.4	25	11261-06	Nut	2	
4.4	26	11016-03	Washer	4	
4.4	27	11018-11	Key	1	
4.4	28	11695-05	Bushing	2	
4.4	29	41309-00	Rod	1	
4.4	30	49612-06	Screw, cap	2	
4.4	31	41297-00	Block	1	
4.4	32	14993-20	Washer	2	
4.4	33	41313-00	Arm	1	
4.4	34	11271-31	Screw, cap	2	
4.4	35	41312-00	Block	1	
4.4	36	41306-00	Arm	1	
4.4	37	49612-05	Screw, cap	2	
4.4	38	41314-00	Link	2	
4.4	39	11143-05	Screw, cap	1	
4.4	40	41301-00	Handle	1	
4.4	41	11170-06	Nut	1	
4.4	42	11419-03	Nut	2	
4.4	43	40694-00	Arm	1	
4.4	44	11047-13	Screw, cap	1	
4.4	45	49329-00	Joint, ball	2	
4.4	46	49591-00	Rod	1	
4.4	47	11129-03	Nut	1	
4.4	48	49330-00	Screw	1	
4.4	49	41796-00	Lever	1	
4.4	50	14911-03	Screw, machine	2	
4.4	51	49751-04	Nut, flanged	2	
4.4	52	41794-00	Bracket, switch	1	
4.4	53	27303-00	Switch, master	1	
4.4	54	11016-01	Washer, flat	2	
4.4	55	11419-03	Nut	2	
4.4	56	29304-00	Potentioneter	1	
4.4	57	50023-00	Screw, flat head	2	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
4.11	1	42129-00	Axle	2	
4.11	2	42127-00	Toe box, 4" high	2	
4.11	3	42178-00	Plate	2	
4.11	4	11898-02	Ring, retainer	4	
4.11	5	11160-09	Fitting, grease	4	
4.11	6	11857-14	Washer, 10 gauge	8	
4.11	7	11857-16	Washer, 18 gauge	8	
4.11	8	49910-02	Bearing	8	
4.11	9	42136-00	Wheel, load (4 x 3)	4	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
5.6	1	41469-00	Cylinder, tilt (See Fig.# 3.17)	1	
5.6	2	40499-00	Spacer	2	
5.6	3	42093-00	Frame, front	1	
5.6	4	40641-00	Frame, fork	1	
5.6	5	41981-00	Pin	2	
5.6	6	49696-03	Screw	2	
5.6	7	40988-01	Rest, load back	1	
5.6	8	14994-06	Screw, cap	4	
5.6	9	11852-14	Screw, flat head	4	
5.6	10	40593-00	Bar, wear	2	
5.6	11	40441-00	Shim, .060"	As Req'd.	
5.6	12	11073-04	Pin, roll	2	
5.6	13	13813-31	Shaft	2	
5.6	14	11009-08	Lockwasher	4	
5.6	15	41559-00	Cylinder, tilt (See Fig.# 3.17)	1	
5.6	16	49785-01	Bumper	2	
5.6	17	40816-00	Spacer	2	
5.6	18	11857-06	Washer, shim	2	

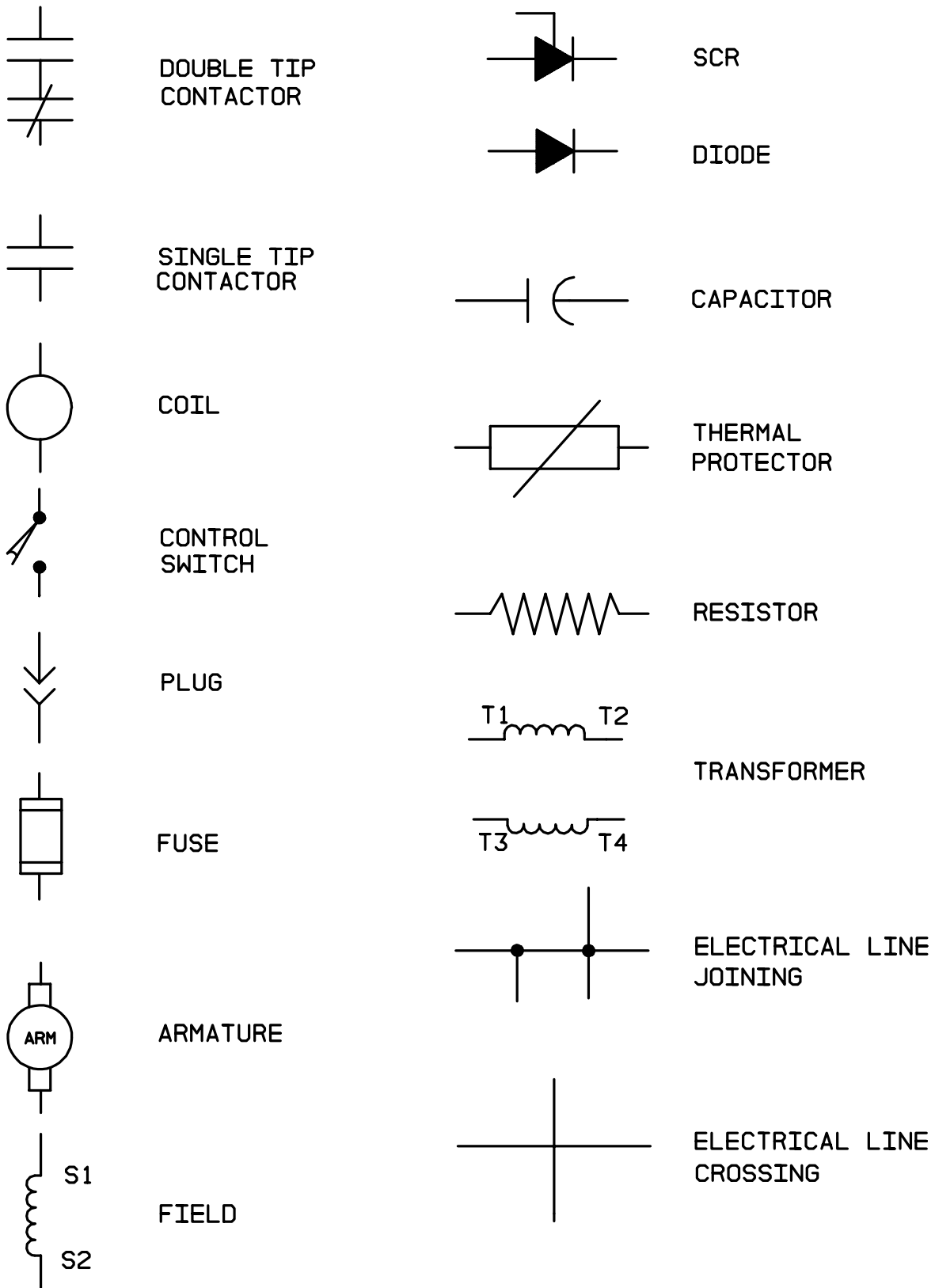
FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
5.13	1	30558-00	Anchor	2	
5.13	2	14835-36	Chain, 89/180 lift	2	89/180
5.13	2	14835-37	Chain, 89/192 lift	2	89/192
5.13	2	14835-37	Chain, 95/198 lift	2	95/198
5.13	2	14835-07	Chain, 95/210 lift	2	95/210
5.13	2	14835-27	Chain, 107/226 lift	2	107/226
5.13	2	14835-38	Chain, 111/240 lift	2	111/240
5.13	2	14835-39	Chain, 119/258 lift	2	119/258
5.13	2	14835-45	Chain, 127/276 lift	2	127/276
5.13	2	14835-46	Chain, 137/300 lift	2	137/300
5.13	2	14835-56	Chain, 143/318 lift	2	143/318
5.13	2	14835-76	Chain, 149/330 lift	2	149/330
5.13	3	30554-00	Pin with cotter pin	2	
5.13	4	49837-00	Nut, wheel	2	
5.13	5	11486-12	Nut, jum	2	
5.13	6	40092-01	Cylinder, 89/180 freelift (See Fig.# 3.31)	1	89/180
5.13	6	40092-10	Cylinder, 89/192 freelift (See Fig.# 3.31)	1	89/192
5.13	6	40092-02	Cylinder, 95/198 freelift (See Fig.# 3.31)	1	95/198
5.13	6	40092-11	Cylinder, 95/210 freelift (See Fig.# 3.31)	1	95/210
5.13	6	40092-03	Cylinder, 107/226 freelift (See Fig.# 3.31)	1	107/226
5.13	6	40092-04	Cylinder, 111/240 freelift (See Fig.# 3.31)	1	111/240
5.13	6	40092-05	Cylinder, 119/258 freelift (See Fig.# 3.31)	1	119/258
5.13	6	40092-06	Cylinder, 127/276 freelift (See Fig.# 3.31)	1	127/276
5.13	6	40092-07	Cylinder, 137/300 freelift (See Fig.# 3.31)	1	137/300
5.13	6	40092-08	Cylinder, 143/318 freelift (See Fig.# 3.31)	1	143/318
5.13	6	40092-09	Cylinder, 149/330 freelift (See Fig.# 3.31)	1	149/330
5.13	7	11160-09	Fitting, grease	2	
5.13	8	11831-06	Nut	1	
5.13	9	11016-08	Washer, flat	1	
5.13	10	30553-05	Washer, shim	1	
5.13	11	40045-00	Sheave	1	
5.13	12	49993-02	Race, inner	2	
5.13	13	49994-01	Bearing, roller	2	
5.13	14	30553-06	Washer, shim	5	
5.13	15	26519-02	Pin	1	
5.13	16	26389-00	Nut, spacer	1	
5.13	17	49941-01	Washer, belleville	6	
5.13	18	40565-00	Retainer	1	
5.13	19	11016-03	Washer, flat	2	
5.13	20	11143-03	Screw, cap	2	
5.13	21	41587-00	Sheave, chain	1	
5.13	22	41585-00	Sheave, cable	1	
5.13	23	41581-00	Shaft	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
5.20	1	301790-007	Slide, top	5	
5.20	2	301790-019	Anchor, cylinder	1	
5.20	3	301790-008	Spacer	1	
5.20	4	49653-08	Fitting, 90°	1	
5.20	5	301790-009	Ring, retainer	2	
5.20	6	301790-006	Slide, lower	1	
5.20	7	301790-005	Nut	2	
5.20	8	301790-004	Hook, lower	4	
5.20	9	301790-002	Screw, set	2	
5.20	10	301790-001	Screw	2	
5.20	11	301790-003	Lockwasher	4	
5.20	12	NA	Frame, sideshifter	4	
5.20	13	301790-010	Nut	1	
5.20	14	301790-011	Spacer	1	
5.20	15	301790-012	Cylinder assembly, 2" CENTER STROCK	1	4.0" Cyd.
5.20	15	301790-013	Cylinder assembly, 3" CENTER STROCK	1	6.0" Cyd.
5.20	15	301790-014	Cylinder assembly, 4" CENTER STROCK	1	8.0" Cyd.
5.20	16K	NSS	Spacer, nylon	1	
5.20	17	301790-017	Spacer	1	
5.20	18K	NSS	Seal, gland	1	
5.20	19	301790-016	Retainer, wiper	1	
5.20	20K	NSS	Wiper, rod	1	
5.20	21	301790-015	Ring, retainer	1	
5.20	K	301790-018	Kit, seal	1	
			(CONTAINS ITEMS MARKED WITH "K")	1	

XX - SPECIFY MODEL AND SERIAL NUMBER WHEN ORDERING THIS PART.

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
6.7	1	49854-02	Connector, housing	1	
6.7	2	49852-02	Connector, tip	2	
6.7	3	49856-49	Cable, 65"	1	
6.7	4	49856-85	Cable, 83½"	1	
6.7	5	20163-94	Wire assembly	1	

FIGURE # 7.4 BATTERY LIFT INTERRUPT "EE" EV-100LX SCR ELECTRICAL SCHEMATIC SYMBOLS



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MODEL RR-45 ELECTRIC REACH TRUCK

NUMERICAL INDEX

<u>PART #</u>	<u>FIG. #</u>	<u>ITEM #</u>	<u>PART #</u>	<u>FIG.#</u>	<u>ITEM #</u>
40023-00	1.3	11	40092-06	3.29	44
40024-01	1.4	30	40092-06	5.13	6
40024-02	1.4	34	40092-07	3.29	44
40030-02	2.8	9	40092-07	5.13	6
40045-00	5.4	14	40092-08	3.29	44
40045-00	5.13	11	40092-08	5.13	6
40047-00	3.31	8	40092-09	3.29	44
40047-00	3.28	8	40092-09	5.13	6
40051-00	3.28	5	40092-10	5.13	6
40051-00	3.31	5	40092-11	3.29	44
40052-00	3.28	4	40092-11	5.13	6
40052-00	3.31	4	40093-01	4.7	3
40058-02	5.14	6	40094-01	1.2	4
40067-00	3.30	11	40100-00	6.10	22
40068-00	3.31	13	40102-01	3.9	6
40068-00	3.28	13	40102-01	4.5	13
40070-01	3.31	10	40102-01	3.3	28
40070-02	3.31	10	40103-01	1.1	8
40070-03	3.31	10	40103-02	5.7	11
40070-04	3.31	10	40103-02	5.18	11
40070-05	3.31	10	40103-02	5.5	7
40070-06	3.31	10	40103-02	5.16	7
40070-07	3.31	10	40103-03	5.7	4
40070-08	3.31	10	40103-03	5.16	8
40070-10	3.31	10	40103-03	5.5	8
40070-11	3.31	10	40103-03	5.18	4
40071-01	3.30	8	40104-00	5.7	3
40071-02	3.30	8	40104-00	5.16	9
40071-03	3.30	8	40104-00	5.18	3
40071-04	3.30	8	40104-00	5.5	9
40071-05	3.30	8	40105-00	4.5	4
40071-06	3.30	8	40107-00	3.27	17
40071-07	3.30	8	40107-01	3.29	13
40071-08	3.30	8	40136-00	4.7	34
40071-09	3.30	8	40152-01	4.8	16
40077-00	2.9	11	40152-02	4.8	16
40077-00	6.4	11	40152-03	4.8	16
40089-01	3.31	3	40152-04	4.8	16
40089-02	3.31	3	40165-00	4.6	11
40089-03	3.31	3	40170-00	4.6	4
40089-04	3.31	3	40175-00	4.6	8
40089-05	3.31	3	40177-00	1.1	19
40089-06	3.31	3	40178-00	1.1	25
40089-07	3.31	3	40181-00	1.1	30
40089-08	3.31	3	40182-00	1.1	29
40089-09	3.31	3	40187-00	1.1	23
40089-11	3.31	3	40188-00	1.1	32
40092-01	3.29	44	40203-00	1.1	11
40092-01	5.13	6	40216-00	1.1	24
40092-02	3.29	44	40218-00	4.6	22
40092-02	5.13	6	40225-00	5.11	1
40092-03	3.29	44	40228-03	5.11	11
40092-03	5.13	6	40228-05	5.1	20
40092-04	3.29	44	40233-00	4.1	19
40092-04	5.13	6	40234-00	4.1	15
40092-05	3.29	44	40234-01	4.1	15
40092-05	5.13	6	40236-01	4.1	11

GENERAL INFORMATION

INDEX

This parts manual is arranged for easy identification of parts. The index at the front of the catalog gives location of major groups and assemblies.

ABBREVIATIONS AND TERMS

- NA - Not Available
- NSS - Not Sold Separately
- As Req'd - Use as required
- K - Parts of a kit
- * - Not shown on drawing
- See Fig.# - See Figure # for further break down of parts.

CHANGES

When changes are made to the machine, revised pages for this manual will be issued. These pages must be inserted in your parts manual as soon as they are received. Failure to keep your parts manuals up to date will result in confusion and may cause you to order wrong parts.

EXAMPLE:

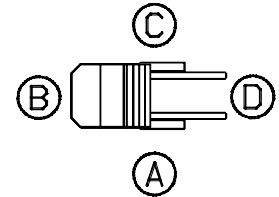
FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.5	12	30354-32	Hose assembly	1	89/180
3.5	12	30354-33	Hose assembly	1	95/198
3.5	12	30354-34	Hose assembly	1	108/226
3.5	12	30354-35	Hose assembly	1	111/240
3.5	12	30354-36	Hose assembly	1	119/258
3.5	13	15898-03	Fitting, bulkhead	1	
3.5	14	40041-00	Tube assembly	1	
3.5	15	40108-00	Fuse	1	
3.5	16	40092-01	Cylinder, freelif (See Fig.# 3.6)	1	89/180
3.5	16	40092-02	Cylinder, freelif (See Fig.# 3.6)	1	95/198
3.5	16	40092-03	Cylinder, freelif (See Fig.# 3.6)	1	108/226
3.5	16	40092-04	Cylinder, freelif (See Fig.# 3.6)	1	111/240
3.5	16	40092-05	Cylinder, freelif (See Fig.# 3.6)	1	119/258
3.5	17	52-05069-00	Hose	As Req'd	
3.5	18	300284-000	Motor, OHIO pump (See Fig.# 2.10)	1	
3.5	19	200037	Pump assembly, lift	1	
3.5	20	NSS	Pump, lift (See Fig.# 3.8)	1	
3.5	21	NA	Plug	1	
3.5	K	200028	Kit, seal	1	

(CONTAINS ITEMS MARKED WITH "K")

RIGHT-HAND AND LEFT-HAND SIDES

The terms right-hand and left-hand used in this parts manual indicate the right and left side of the machine as viewed from the operator's line of sight for proper operation of machine or attachment.

- A. Right Side
- B. Rear
- C. Left Side
- D. Front



PART LIST

The FIGURE #, describes the figure you are on. The ITEM #, describes the item on the figure you are looking at. The PART # is a numerical description of the item and the part ordering number. The NAME is a description of the part number in alphabetical form. The # FOR ASSY. is the quantity used on the figure and NOT the quantity used on the machine. The UNIT describes the type or style of the part used on the figure.

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
1.4	1	14908-16	Locknut	1	
1.4	2	14898-00	Washer	1	
1.4	3	11057-13	Key	1	
1.4	4	40473-00	Gear & pinion set (See Fig.# 1.3 for pinion)	1	
1.4	5	40020-00	Case	1	
1.4	6	11890-03	Pin, dowel	2	
1.4	7	11205-13	Bearing	1	
1.4	8	40009-00	Shaft	1	
1.4	9	49967-04	Shim, .005"	As Req'd.	
1.4	9	49967-05	Shim, .007"	As Req'd.	
1.4	9	49967-06	Shim, .010"	As Req'd.	
1.4	10	40001-00	Holder, bearing	1	
1.4	11	11205-14	Bearing	1	
1.4	12	49973-01	Locknut	2	
1.4	13	49974-01	Lockwasher	1	
1.4	14	49970-01	Shim, .005"	As Req'd.	
1.4	14	49970-02	Shim, .007"	As Req'd.	
1.4	14	49970-03	Shim, .010"	As Req'd.	
1.4	15	14908-28	Locknut	1	
1.4	16	40828-00	Plate	1	
1.4	17	11143-03	Screw, cap	4	
1.4	18	11143-04	Screw, cap	4	
1.4	19	40829-00	Cover	1	
1.4	20	12318-03	Plug	1	
1.4	21	12391-03	O ring	1	
1.4	22	11143-04	Screw, cap	8	
1.4	23	11009-06	Lockwasher	8	
1.4	24	11015-30	O ring	3	
1.4	25	40007-00	Shaft	1	
1.4	26	11936-16	Race	2	
1.4	27	11935-06	Bearing, thrust	2	
1.4	28	11936-15	Race	2	
1.4	29	49971-00	Roller	122	
1.4	30	40024-01	Spacer	1	
1.4	31	40017-00	Gear	1	
1.4	32	11936-01	Race	1	
1.4	33	40018-00	Gear	1	
1.4	34	40024-02	Spacer	1	
1.4	35	40006-00	Shaft	1	
1.4	36	11073-19	Pin	1	
1.4	37	40012-00	Gear, axle	1	
1.4	38	11205-17	Bearing	2	
1.4	39	49967-01	Shim, .005"	As Req'd	
1.4	39	49967-02	Shim, .007"	As Req'd	
1.4	39	49967-03	Shim, .010"	As Req'd	
1.4	40	40022-00	Spacer	1	
1.4	41	11039-29	Seal, oil	1	
1.4	42	40003-00	Hub	1	
1.4	43	49966-01	Ring	1	
1.4	44	11205-16	Bearing	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
2.9	1	25332-01	Tie, wire	As Req'd	
2.9	2	41771-00	Harness, wiring (See Fig.# 2.6)	1	
2.9	3	49611-00	Receptacle	1	
2.9	4	49861-05	Relief, strain	1	
2.9	5	52-07920-00	Cable	As Req'd	
			21 FEET	89/180	
			23 FEET	95/198	
			25 FEET	107/226	
			27 FEET	111/240	
			29 FEET	119/258	
			31 FEET	127/276	
			33 FEET	137/300	
			35 FEET	143/318	
			37 FEET	149/330	
2.9	6	11170-06	Nut	1	
2.9	7	15677-08	Clamp	1	
2.9	8	49610-00	Pin	5	
2.9	9	11009-05	Lockwasher	2	
2.9	10	11854-03	Screw, cap	2	
2.9	11	40077-00	Bracket	1	
2.9	12	49609-00	Plug	1	
2.9	13	41255-00	Cable, single reach (See Fig.# 2.10)	1	
2.9	13	41486-00	Cable, double reach (See Fig.# 2.11)	1	
2.9	14	49608-00	Socket	5	
2.9	15	41596-00	Bracket	2	
2.9	16	41602-01	Strain relief, fitting	2	
2.9	17	41602-00	Strain relief, clamp	2	
2.9	18	49501-00	Spring	2	
2.9	19	41588-00	Sleeve, cable	2	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
2.16	1	200076	Base, magnet	1	
2.16	2	200077	Coil, field	2	
2.16	3	200078	Frame, magnet	2	
2.16	4	200079	Spring (RED)	2	
2.16	5	200080	Armature	2	
2.16	6	200081	Base, buss	2	
2.16	7K	NSS	Tip, contact	2	
2.16	8K	NSS	Tip, contact	1	
2.16	9K	NSS	Tip, movable	4	
2.16	10	201267	Spring (GOLD)	2	
2.16	11	200085	Insulation	2	
2.16	12	201215	Locknut	2	
2.16	13	200086	Clamp	4	
2.16	14K	NSS	Tip, contact	1	
2.16	15	200088	Cover	2	
2.16	16	201368	Lockwasher	8	
2.16	17	201372	Screw, machine	8	
2.16	18	200089	Screw, cap	2	
2.16	19	200090	Lockwasher	2	
2.16	20	200091	Washer, flat	2	
2.16	21K	NSS	Tip, contact	1	
2.16	22	200093	Clamp	2	
2.16	23	201367	Washer, flat	2	
2.16	24	200094	Seat	4	
2.16	25	200095	Carrier	2	
2.16	26	200096	Bushing	2	
2.16	27K	NSS	Tip, contact	1	
2.16	28	202009	Suppression, forward & rearward	2	
2.16	K	301741-000	Kit, contactor tip (contains items marked with "K")	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
2.22	1	300294-000	Stud and nut assembly	4	
2.22	2	300301-000	Spring	8	
2.22	3	300315-000	Brush	4	
2.22	4	300299-000	Connector, cross	2	
2.22	5	300292-000	Bearing	1	
2.22	6	300310-000	End, shield C.E.	1	
2.22	7	300316-000	Cover, 24 volt large	1	24 volt
2.22	7	300304-000	Cover, 36 volt large	1	36 volt
2.22	8	300303-000	Cover, small	1	
2.22	9	300302-000	Yoke and holder assembly	1	
2.22	10	300312-000	Coil, 24 volt field	1	24 VOLT
2.22	10	300327-000	Coil, 36 volt field	1	36 VOLT
2.22	11	300311-000	Armature, 24 volt	1	24 VOLT
2.22	11	300326-000	Armature, 36 volt	1	36 VOLT
2.22	12	300307-000	Fan	1	
2.22	13	300313-000	End, shield D.E.	1	
2.22	14	300314-000	Seal, shaft	1	
2.22	15	300317-000	Cover, 24 volt D.E.	1	24 VOLT
2.22	15	300305-000	Cover, 36 volt D.E.	1	36 VOLT
2.22	16	49339-00	Kit, "EE" solid cover	1	"EE"TYPE

FIGURE # 2.31A EV-100LX SCR ELECTRICAL SCHEMATIC SYMBOLS

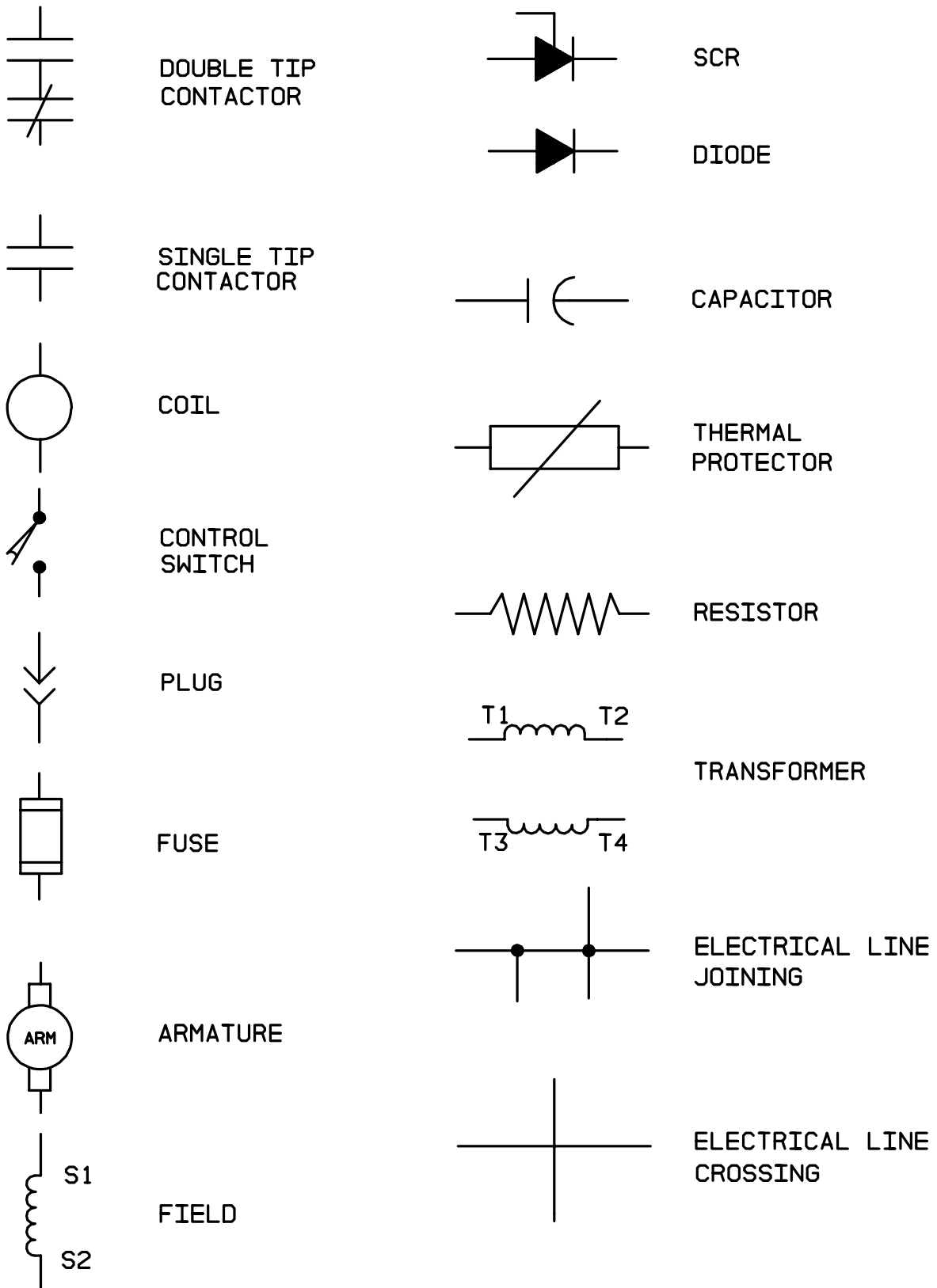


FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.6	1K	NSS	Seal, oil	1	
3.6	2	300681-002	Stator	1	
3.6	3K	NSS	Seal	1	
3.6	4K	NSS	Seal, rubber	1	
3.6	5K	NSS	Plate, wear	1	
3.6	6	300681-007	Gear, drive	1	
3.6	7	NA	Shaft, drive	1	
3.6	8	NA	Key	1	
3.6	9	NA	Gear	1	
3.6	10	300681-008	Gear, idler	1	
3.6	11	NA	Ball	1	
3.6	12	NA	Ring, retainer	2	
3.6	13	NA	Shaft, idler	1	
3.6	14	NA	Gear	1	
3.6	15	200033	Pin, dowel	1	
3.6	16K	NSS	Plate, pressure	1	
3.6	17K	NSS	Seal	1	
3.6	18K	NSS	Seal, plate	1	
3.6	19	300681-006	Housing, end gear	1	
3.6	20	202065	Plug	1	
3.6	21	300143-000	Screw, 12 point	8	
3.6	K	300184-000	Kit, seal	1	

(CONTAINS ITEMS MARKED WITH "K")

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.13	1	41243-01	Coil, 24 volt	As Req'd.	24 VOLT
3.13	1	41243-00	Coil, 36 volt	As Req'd.	36 VOLT
3.13	2	11854-03	Screw, cap	3	
3.13	3	11009-05	Lockwasher	3	
3.13	4	11016-02	Washer, flat	3	
3.13	5	49617-03	Hose assembly	2	
3.13	6	41199-00	Tube assembly	1	
3.13	7	49604-00	O ring	2	
3.13	8	49656-00	Adapter	4	
3.13	9	49604-00	O ring	1	
3.13	10	12391-03	O ring	1	
3.13	11	41242-00	Dividter valve assembly (See Fig.# 3.14)	1	
3.13	12	49617-02	Hose assembly	2	
3.13	13	49617-04	Hose assembly	2	
3.13	14	49655-00	Fitting, straight long	2	
3.13	15	49604-00	O ring	1	
3.13	16	12391-03	O ring	1	
3.13	17	49653-00	Elbow, 90°	4	
3.13	18	12391-03	O ring	1	
3.13	19	49604-00	O ring	1	
3.13	20	41226-00	Tube assembly	2	
3.13	21	49604-00	O ring	1	
3.13	22	-----	Cylinder, left reach (See Fig.# 3.15)	1	
3.13	23	-----	Cylinder, right reach (See Fig.# 3.15)	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.20	1	41391-00	Yoke	1	
3.20	2	41390-00	Rod	1	
3.20	3K	NSS	Wiper	1	
3.20	4K	NSS	Seal	1	
3.20	5	40495-00	Bearing	1	
3.20	6K	NSS	O ring	1	
3.20	7K	NSS	Ring, back-up	1	
3.20	8K	NSS	Ring, guide	1	
3.20	9	49511-00	Nut, jam	1	
3.20	10K	NSS	Ring, back-up	1	
3.20	11	41389-00	Piston	1	
3.20	12	14908-08	Nut	1	
3.20	13	41392-01	Tube, left hand	1	Lift Hand
3.20	14	11020-37	Bushing	1	
3.20	15	41392-00	Tube, right hand	1	Right Hand
3.20	16	31057-04	Retainer	1	
3.20	17K	NSS	Ring, guide	1	
3.20	18K	NSS	O ring	1	
3.20	19K	NSS	O ring	1	
3.20	20	41527-XX	Spacer (STATE SERIAL NUMBER)	1	
3.20	K	41488-00	Kit, seal	1	

(CONTAINS ITEM MARKED WITH "K")

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.27	1	-----	Reservoir assembly (See Fig.# 3.7)	1	
3.27	2	49631-10	Adapter	1	
3.27	3	49604-02	O ring	1	
3.27	4	49641-22	Hose assembly	1	
3.27	5	49654-12	Elbow, 90°	1	
3.27	6	49604-02	O ring	1	
3.27	7	12391-07	O ring	1	
3.27	8	49641-26	Hose assembly	1	
3.27	9	41244-00	Tube assembly	1	
3.27	10	49604-02	O ring	1	
3.27	11	49623-02	Elbow, 90°	1	
3.27	12	49604-02	O ring	1	
3.27	13	40534-01	Cylinder, 89/126 lift (See Fig.# 3.28)	1	89/126
3.27	13	40534-02	Cylinder, 95/138 lift (See Fig.# 3.28)	1	95/138
3.27	13	40534-03	Cylinder, 107/162 lift (See Fig.# 3.28)	1	107/162
3.27	13	40534-04	Cylinder, 119/186 lift (See Fig.# 3.28)	1	119/186
3.27	14	49656-15	Adapter	1	
3.27	15	49604-02	O ring	1	
3.27	16	12391-08	O ring	1	
3.27	17	40107-00	Valve, flow control	1	
3.27	18	12391-07	O ring	1	
3.27	19	25109-05	Adapter	1	
3.27	20	12391-03	O ring	1	
3.27	21	41364-00	Valve, lift control (See Fig.# 3.26)	1	
3.27	22	49656-14	Adapter	1	
3.27	23	12391-07	O ring	1	
3.27	24	49604-02	O ring	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.34	1K	NSS	Seal, wiper	1	
3.34	2K	NSS	O ring	1	
3.34	3	NA	Barrel	1	
3.34	4	NA	Screw, machine	1	
3.34	5K	NSS	Seal, washer	1	
3.34	6	NA	Rod, piston	1	
3.34	7K	NA	Ring, retainer	1	
3.34	8K	NSS	O ring	1	
3.34	9	NA	Bushing	1	
3.34	K	202145	Kit, seal	1	
(CONTAINS ITEMS MARKED WITH "K")					

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
4.1	1	40919-00	Block	1	
4.1	2	11894-06	Screw, cap	1	
4.1	3	40923-00	Post	1	95/138,198,210
4.1	3	40923-01	Post	1	ALL ELSE
4.1	4	11884-01	Screw, socket	2	
4.1	5	11170-08	Locknut	2	
4.1	6	40421-00	Pad, side	1	
4.1	7	40419-00	Mat, pedal	1	
4.1	8	40786-01	Pedal	1	
4.1	9	40415-00	Mat, floor	1	
4.1	10	49922-01	Screw, flat head	15	
4.1	11	40236-01	Plate, floor	1	
4.1	12	11073-26	Pin, roll	1	
4.1	13	40789-01	Shaft	1	
4.1	14	40420-00	Pad, side	1	
4.1	15	40234-00	Cover, SCR	1	
4.1	15	40234-01	Cover, manlift SCR	1	
4.1	*	52-05007-00	Edging	As Req'd.	
4.1	16	40238-02	Cover, instrument	1	
4.1	17	14851-02	Nut, clip	10	
4.1	18	27561-03	Edging	1	
4.1	19	40233-00	Angle	1	
4.1	20	49892-01	Screw, flat head	1	
4.1	21	40418-00	Pad, seat	1	
4.1	22	41784-01	Cover, seat panel	1	
4.1	22	41784-00	Cover, seat panel multi-function handle	1	
4.1	23	40239-01	Cover, 16.5" battery	1	
4.1	23	40239-02	Cover, 14.5" battery	1	
4.1	23	49239-03	Cover, 21.0" battery	1	
4.1	24	11695-07	Bushing	2	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
4.8	1	41550-00	Door	1	
4.8	2	20904-01	Bumper	2	
4.8	3	11429-04	Pin, cotter	1	
4.8	4	11016-27	Washer, flat	11	
4.8	5	49914-00	Screw, cap	1	
4.8	6	41547-00	Hinge	1	
4.8	7	14989-17	Screw, 12 point cap	8	
4.8	7	49761-22	Screw, cap 4" high outriggers	8	
4.8	8	25189-02	Bearing	8	
4.8	9	25204-03	Roller, 14.5" battery	4	14.5"BATT.
4.8	9	25204-06	Roller, 16.5" battery	4	16.5"BATT.
4.8	9	25204-07	Roller, 21" battery	4	21" BATT.
4.8	10	25203-07	Shaft, 14.5" battery	4	14.5"BATT.
4.8	10	25203-06	Shaft, 16.5" battery	4	16.5"BATT.
4.8	10	25203-08	Shaft, 21" battery	4	21" BATT.
4.8	11	-----	Frame, main (State Serial Number)	1	
4.8	12	41064-01	Retainer, battery 14.5" battery	2	14.5"BATT.
4.8	12	41064-00	Retainer, battery 16.5" battery	2	16.5"BATT.
4.8	12	41064-02	Retainer, battery 21" battery	2	21" BATT.
4.8	13	-----	Load wheel, 5" articulating (See Fig.# 4.10 & 4.10A)	2	
4.8	14	-----	Load wheel, single (See Fig.# 4.9 & 4.9A)	2	
4.8	15	-----	Load wheel, 4" articulating (See Fig.# 4.11 & 4.11A)	2	
4.8	16	40152-04	Retainer, 14.5" right top battery	1	14.5"BATT.
4.8	16	40152-02	Retainer, 16.5" right top battery	1	16.5"BATT.
4.8	16	40152-02	Retainer, 21" right top battery	1	21" BATT.
4.8	16	40152-03	Retainer, 14.5" left top battery	1	14.5"BATT.
4.8	16	40152-01	Retainer, 16.5" left top battery	1	16.5"BATT.
4.8	16	40152-01	Retainer, 21" left top battery	1	21" BATT.
4.8	17	11170-06	Nut	10	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
5.1	1	40514-00	Guard, overhead	1	
5.1	2	11170-12	Nut	4	
5.1	3	14992-08	Screw, cap	4	
5.1	4	-----	Column, inner (See Fig.#5.2)	1	
5.1	5	-----	Single reach assembly (See Fig.# 5.5)	1	
5.1	5	-----	Double reach assembly (See Fig.# 5.7)	4	
5.1	6	25008-01	Fork, 30" (See Fig.# 5.10)	2	
5.1	6	25008-02	Fork, 36" (See Fig.# 5.10)	2	
5.1	6	25008-03	Fork, 42" (See Fig.# 5.10)	2	
5.1	6	25008-04	Fork, 48" (See Fig.# 5.10)	2	
5.1	7	30554-00	Pin with cotter pin	2	
5.1	8	40547-00	Plug	2	
5.1	9	14892-04	Screw, cap	2	
5.1	10	11890-10	Pin, dowel	2	
5.1	11	11009-06	Lockwasher	4	
5.1	12	40544-00	Stop	1	
5.1	13	40544-01	Stop	1	
5.1	14	14992-17	Screw, cap	2	
5.1	15	11016-06	Washer	2	
5.1	16	49925-01	Shim, .250"	As Req'd.	
5.1	16	49925-02	Shim, .125"	As Req'd.	
5.1	16	49925-03	Shim, .062"	As Req'd.	
5.1	17	11271-15	Screw, set	4	
5.1	18	11271-14	Screw, set	4	
5.1	19	-----	Column, outer (See Fig.# 5.3)	1	
5.1	20	40228-05	Channel	1	
5.1	21	40467-01	Cushion, windshield	1	
5.1	22	41084-00	Channel	2	
5.1	22	41084-01	Channel, 95/138	2	95/138
5.1	23	NA	Laminated safety sheet gless S.A.E. J-673 26 ⁵ / ₈ "x33 ³ / ₄ "x .234" (Secure this part locally)	1	
5.1	24	11073-10	Pin, roll	2	
5.1	25	40472-00	Sideshifter assembly (See Fig.# 5.9)	1	
5.1	26	40486-01	Screen (Cold Storage)	1	
5.1	27	52-05007-00	Edge, rubber (Cold Storage)	As Req'd.	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
5.8	1	41561-00	Cylinder, tilt (See Fig.# 3.21)	2	
5.8	2	40499-00	Spacer	2	
5.8	3	42094-00	Frame, front	1	
5.8	4	40641-00	Frame, fork	1	
5.8	5	41981-00	Pin	2	
5.8	6	49696-03	Screw	2	
5.8	7	40988-00	Rest, load back	1	
5.8	8	14994-06	Screw, cap	4	
5.8	9	11852-14	Screw, flat head	4	
5.8	10	40593-00	Bar, wear	2	
5.8	11	40441-00	Shim, .060"	As Req'd.	
5.8	12	11073-04	Pin, roll	2	
5.8	13	13813-19	Pin	2	
5.8	14	11009-08	Lockwasher	4	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
5.15	1	49837-00	Nut, wheel	2	
5.15	2	11486-12	Nut, jum	2	
5.15	3	30558-00	Anchor	2	
5.15	4	14835-18	Chain, 89/180 lift	2	89/180
5.15	4	14835-63	Chain, 89/192 lift	2	89/192
5.15	4	14835-33	Chain, 95/198 lift	2	95/198
5.15	4	14835-33	Chain, 95/210 lift	2	95/210
5.15	4	14835-34	Chain, 107/226 lift	2	107/226
5.15	4	14835-24	Chain, 111/240 lift	2	111/240
5.15	4	14835-35	Chain, 119/276 lift	2	119/258
5.15	4	14835-48	Chain, 127/276 lift	2	127/276
5.15	4	14835-49	Chain, 137/300 lift	2	137/300
5.15	4	14835-64	Chain, 143/318 lift	2	143/318
5.15	4	14835-75	Chain, 149/330 lift	2	149/330
5.15	5	30554-00	Pin, chain	2	
5.15	6	11857-05	Shim, .050"	As Req'd.	
5.15	6	11857-12	Shim, .025"	As Req'd.	
5.15	6	11857-09	Shim, .080"	As Req'd.	
5.15	6	11857-10	Shim, .050"	As Req'd.	
5.15	6	11857-11	Shim, .025"	As Req'd.	
5.15	7	21089-02	Bearing	2	
5.15	7	49832-00	Bearing, 95/210	2	95/210
5.15	8	41693-01	Column, 89/180 outer	1	89/180
5.15	8	41693-01	Column, 89/192 outer	1	89/192
5.15	8	41693-02	Column, 95/198 outer	1	95/198
5.15	8	41693-16	Column, 95/210 outer	1	95/210
5.15	8	41693-03	Column, 107/226 outer	1	107/226
5.15	8	41693-04	Column, 111/240 outer	1	111/240
5.15	8	41693-05	Column, 119/258 outer	1	119/258
5.15	8	41693-06	Column, 127/276 outer	1	127/276
5.15	8	41693-07	Column, 137/300 outer	1	137/300
5.15	8	41693-08	Column, 143/318 outer	1	143/318
5.15	8	41693-09	Column, 149/330 outer	1	149/330
5.15	9	40891-01	Cylinder assembly (See Fig.# 3.30)	2	89/180
5.15	9	40891-01	Cylinder assembly (See Fig.# 3.30)	2	89/192
5.15	9	40891-02	Cylinder assembly (See Fig.# 3.30)	2	95/198
5.15	9	40891-02	Cylinder assembly (See Fig.# 3.30)	2	95/210
5.15	9	40891-03	Cylinder assembly (See Fig.# 3.30)	2	107/226
5.15	9	40891-04	Cylinder assembly (See Fig.# 3.30)	2	111/240
5.15	9	40891-05	Cylinder assembly (See Fig.# 3.30)	2	119/258
5.15	9	40891-06	Cylinder assembly (See Fig.# 3.30)	2	127/276
5.15	9	40891-07	Cylinder assembly (See Fig.# 3.30)	2	137/300
5.15	9	40891-08	Cylinder assembly (See Fig.# 3.30)	2	143/318
5.15	9	40891-09	Cylinder assembly (See Fig.# 3.30)	2	149/330

FIGURE # 6.2 REMOTE LIFT/LOWER EV-100 LX SCR ELECTRICAL SCHEMATIC SYMBOLS

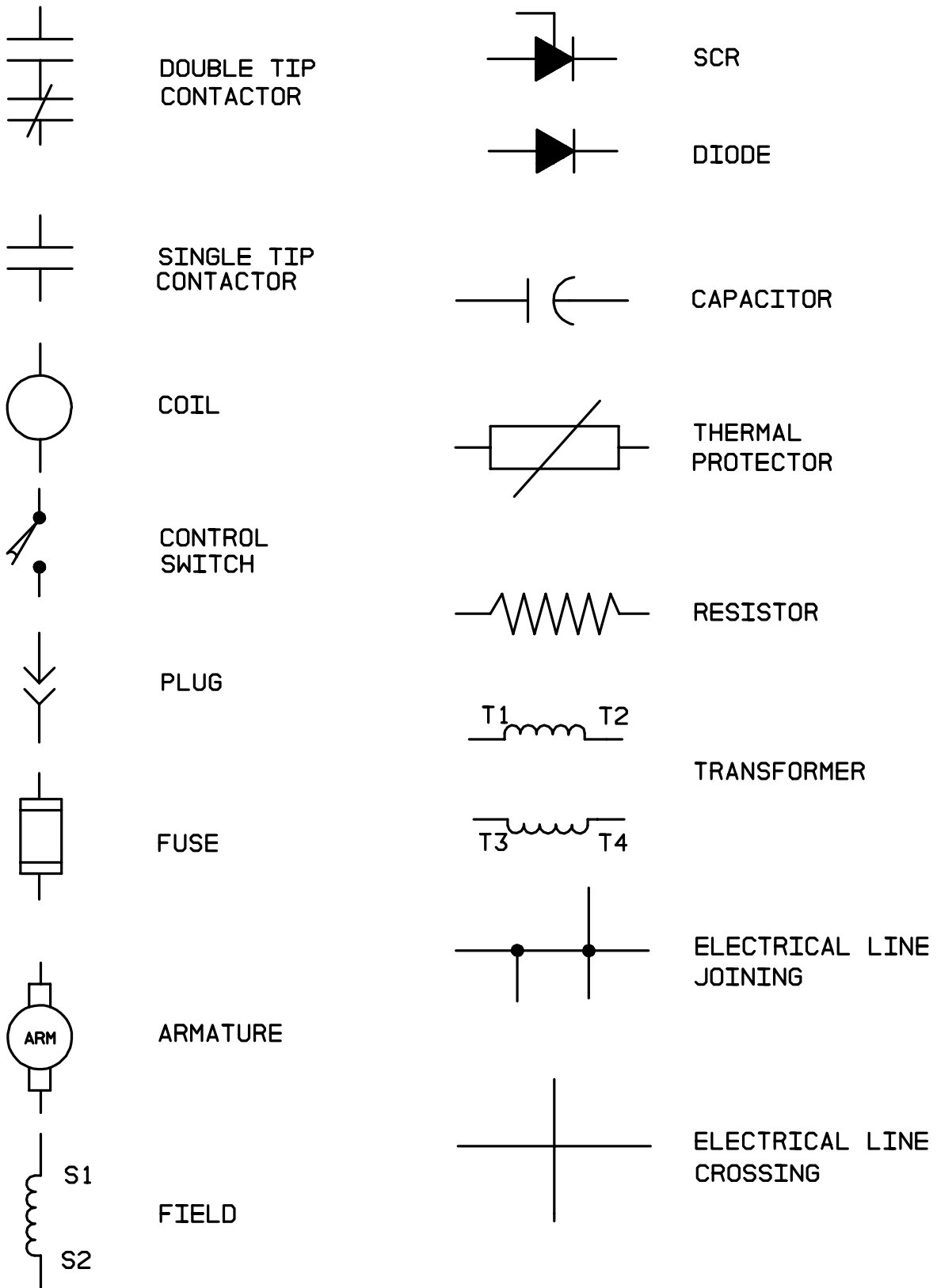


FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
6.10	1	41461-01	Valve, 24 volt blocking (See Fig.# 6.11)	1	24 VOLT
6.10	1	41461-00	Valve, 36 volt blocking (See Fig.# 6.11)	1	36 VOLT
6.10	2	49656-15	Adapter	1	
6.10	3	12391-08	O ring	1	
6.10	4	49604-02	O ring	1	
6.10	5	49516-26	Hose	1	
6.10	6	49637-02	Tee	1	
6.10	7	49604-02	O ring	3	
6.10	8	49516-32	Hose assembly	1	
6.10	9	-----	Three stage cylinder and reservoir assy. (See Fig.# 3.29)	1	
6.10	10	49653-02	Elbow, 90°	1	
6.10	11	12391-06	O ring	1	
6.10	12	49604-02	O ring	1	
6.10	13	49516-31	Hose assembly	1	
6.10	14	41624-00	Tube assembly	1	
6.10	15	49604-02	O ring	1	
6.10	16	49656-02	Adapter	2	
6.10	17	49604-02	O ring	1	
6.10	18	12391-06	O ring	1	
6.10	19	49516-27	Hose assembly	1	ALL ELSE
6.10	19	49516-28	Hose assembly	1	21" BATT.
6.10	20	41460-01	Valve, 24 volt manlift (See Fig.# 6.12)	1	24 VOLT
6.10	20	41460-00	Valve, 36 volt manlift (See Fig.# 6.12)	1	36 VOLT
6.10	21	49516-29	Hose assembly	1	ALL ELSE
6.10	21	49516-30	Hose assembly	1	21" BATT.
6.10	22	41364-00	Lift valve assembly (See Fig.# 3.26)	1	
6.10	23	49656-14	Adapter	2	
6.10	24	12391-07	O ring	1	
6.10	25	49604-02	O ring	1	
6.10	26	49776-00	Beyond, power	1	
6.10	27	12391-08	O ring	1	
6.10	28	12391-07	O ring	1	
6.10	29	49615-02	Tee	1	
6.10	30	49604-02	O ring	2	
6.10	31	49397-00	Hose assembly	1	ALL ELSE
6.10	31	49397-01	Hose assembly	1	21" BATT.
6.10	32	49653-14	Elbow, 90°	1	
6.10	33	49604-02	O ring	1	
6.10	34	12391-08	O ring	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
7.5	1	49399-00	Control, EV-100LX SCR TX panel (See Fig.# 2.13)	1	
7.5	2	41757-01	Panel, 24 Volt contactor (See Fig.# 2.14 & 2.15)	1	24 VOLT
7.5	2	41757-02	Panel, 36 Volt contactor (See Fig.# 2.14 & 2.15)	1	36 VOLT
7.5	3	41799-00	Harness, curtis	1	
7.5	4	301579-000	Wire assembly	1	
7.5	5	49712-01	Lift interrupt control, 24 volt	1	24 VOLT
7.5	5	49712-02	Lift interrupt control, 36 volt	1	36 VOLT
7.5	6	301578-000	Gauge, lift interrupt	1	
7.5	7	11016-01	Washer, flat	2	
7.5	8	11009-04	Lockwasher	2	
7.5	9	11045-04	Screw, cap	2	

MODEL RR-45 ELECTRIC REACK TRUCK

NUMERICAL INDEX

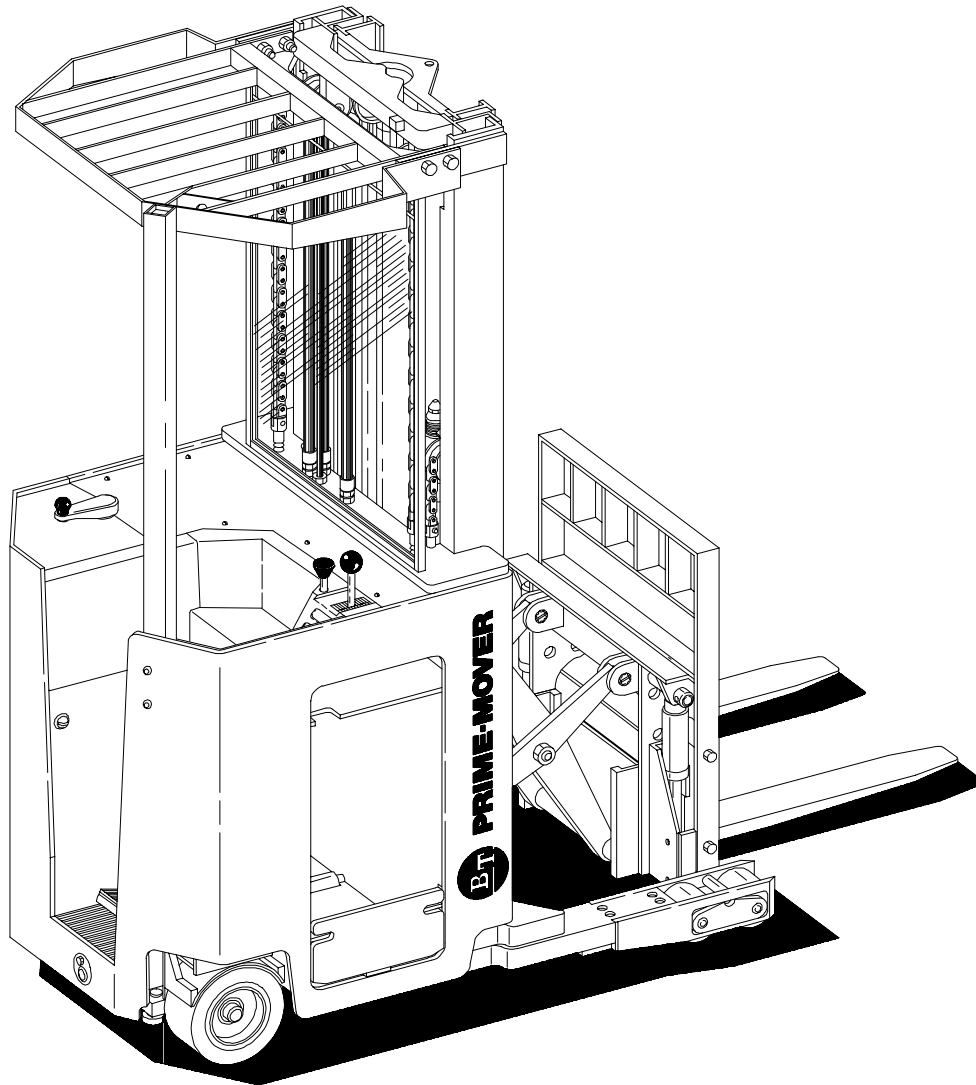
<u>PART #</u>	<u>FIG. #</u>	<u>ITEM #</u>	<u>PART #</u>	<u>FIG. #</u>	<u>ITEM #</u>
301327-010	2.21A	25	301790-013	5.20	15
301327-013	2.21A	29	301790-014	5.20	15
301327-034	2.21A	2	301790-014	5.9	15
301327-035	2.21A	3	301790-015	5.9	21
301327-036	2.21A	14	301790-015	5.20	21
301327-037	2.21A	16	301790-016	5.20	19
301327-038	2.21A	21	301790-016	5.9	19
301327-039	2.21A	23	301790-017	5.20	17
301327-040	2.21A	28	301790-017	5.9	17
301327-043	3.24	2	301790-018	5.9	K
301327-044	3.24	8	301790-018	5.20	K
301327-045	3.24	14	301790-019	5.9	2
301363-000	0.1	*	301790-019	5.20	2
301490-000	6.14	2	301793-001	1.2	9
301491-000	3.5	3	301793-002	1.2	13
301507-000	3.5	6	301793-003	1.2	10
301508-000	3.5	5	301793-004	1.2	8
301529-000	10.1	4	301793-005	1.2	11
301552-000	2.32	14	301793-006	1.2	12
301567-000	2.13	11D	301793-007	1.2	6
301572-000	1.2	5	301793-008	1.2	7
301573-000	1.2	4	301899-000	6.14	10
301578-000	7.5	6	301970-000	3.39	2
301579-000	7.5	4	301972-000	3.39	3
301582-000	10.1	9	301976-000	2.13	10
301583-000	10.1	10	301985-000	3.23	1
301584-000	10.1	11	301985-000	2.12	11
301741-000	2.16	K	302008-000	2.32	28
301790-001	5.20	10	302103-000	2.13	10
301790-001	5.9	10	302105-000	0.1	17
301790-002	5.9	9	302122-000	3.25	K
301790-002	5.20	9	302211-000	2.13	11C
301790-003	5.20	11	302250-000	4.12	K
301790-003	5.9	11	302344-000	3.33	K
301790-004	5.9	8	302345-000	6.14	20
301790-004	5.20	8	30320-01	3.29	36
301790-005	5.20	7	30434-00	4.5	3
301790-005	5.9	7	30553-02	5.14	1
301790-006	5.9	6	30553-05	5.4	15
301790-006	5.20	6	30553-05	5.13	10
301790-007	5.20	1	30553-06	5.13	14
301790-007	5.9	1	30553-06	5.4	6
301790-008	5.9	3	30553-07	5.14	7
301790-008	5.20	3	30554-00	5.13	3
301790-009	5.9	5	30554-00	5.15	5
301790-009	5.20	5	30554-00	5.1	7
301790-010	5.20	13	30554-00	5.11	21
301790-010	5.9	13	30554-00	5.3	5
301790-011	5.20	14	30558-00	5.15	3
301790-011	5.9	14	30558-00	5.13	1
301790-012	5.20	15	30558-00	5.3	4
301790-012	5.9	15	30559-00	5.14	8
301790-013	5.9	15	30612-01	3.31	6

PART MANUAL

Manual Part Number 300378-004
ELECTRIC REACH TRUCK

RR-45/RR-45Z

Effective Serial Number 238728



WARNING Read and observe all warnings on this unit before operating it.



WARNING **DO NOT** operate this equipment unless all factory installed guards and shields are properly secured in place.



FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
1.3	*	40011-00	Transmission Assembly	1	
1.3	1	11160-01	Fitting, grease	2	
1.3	2	40002-00	Yoke	1	
1.3	3	41648-00	Plate	1	
1.3	4	11143-03	Screw, cap	4	
1.3	5	49972-02	Ring	1	
1.3	6	40005-00	Pin	1	
1.3	7	11205-15	Bearing	1	
1.3	8	49969-01	Shim, .005	As Req'd	
1.3	8	49969-02	Shim, .007	As Req'd	
1.3	8	49969-03	Shim, .010	As Req'd	
1.3	8	49969-04	Shim, .020	As Req'd	
1.3	9	11015-16	O ring	1	
1.3	10	40473-00	Gear and pinion set (See Fig.# 1.4 for Gear)	1	
1.3	11	40023-00	Piston	1	
1.3	12	11827-14	Ring, retainer	1	
1.3	13	14908-12	Locknut	1	
1.3	14	49966-02	Washer	1	
1.3	15	11890-05	Pin	2	
1.3	16	-----	Transmission assembly (See Fig.# 1.4)	1	
1.3	17	11872-02	Bolt, wheel	8	
1.3	18	11827-15	Ring, retainer	1	
1.3	19	49967-07	Shim, .005	As Req'd	
1.3	19	49967-08	Shim, .007	As Req'd	
1.3	19	49967-09	Shim, .010	As Req'd	
1.3	19	49967-10	Shim, .060	As Req'd	
1.3	20	11205-18	Bearing	1	
1.3	21	49972-04	Ring	1	
1.3	22	49973-01	Locknut	2	
1.3	23	49974-01	Lockwasher	1	
1.3	24	11854-03	Screw, cap	4	
1.3	25	40000-00	Collar	1	
1.3	26	49968-00	Bearing set	1	
1.3	27	49972-01	Ring	1	
1.3	28	22012-05	Elbow, 90	1	
1.3	29	12391-07	O ring	1	
1.3	30	49928-07	Cap	1	
1.3	31	40267-01	Wheel, Rubber drive	1	Rubber
1.3	31	40267-03	Wheel, Non-Marking drive	1	Non-Marking
1.3	32	40004-00	Wheel, hub	1	
1.3	33	40266-01	Tire, rubber	1	Rubber
1.3	33	40266-03	Tire, Non-Marking	1	Non-Marking
1.3	34	11801-00	Nut, wheel	8	
1.3	35	11241-01	Elbow, 90	1	
1.3	36	11459-00	Vent, air	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
2.8	1	25332-01	Tie, wire	As Req'd	
2.8	2	-----	Harness, wiring (See Fig.# 2.6 & 2.28)	1	
2.8	3	49611-00	Receptacle	1	
2.8	4	49861-05	Relief, strain	1	
2.8	5	49610-00	Pin	5	
2.8	6	52-07920-00	Cable	As Req'd.	
			15 FEET	89/126	
			16 FEET	95/138	
			19 FEET	107/162	
			18 FEET	119/186	
2.8	7	11854-03	Screw, cap	2	
2.8	8	11009-05	Lockwasher	2	
2.8	9	40030-02	Bracket	1	
2.8	10	49609-00	Plug	1	
2.8	11	-----	Cable assembly, reach (See Fig.# 2.10)	1	
2.8	12	49608-00	Socket	5	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
2.15	1	41757-01	Panel assembly, 24 Volt contactor	1	24 Volt
2.15	1	41757-02	Panel assembly, 36 Volt contactor	1	36 Volt
2.15	2	-----	Contactor, 1A (See Fig.# 2.17)	1	
2.15	3	50000-13	Washer, flat	As Req'd	
2.15	4	50001-11	Lockwasher	As Req'd	
2.15	5	50003-01	Screw, cap (M8x1.25MM 16M LG)	As Req'd	
2.15	6	301122-000	Bar, buss	1	
2.15	6	NOT USED	Bar, buss (NOT USED ON "EE" ONLY)	0	"EE"TYPE
2.15	7	-----	Contactor, lift pump (See Fig.# 2.17)	1	
2.15	*	300113-000	Suppression	1	
2.15	8	-----	Contactor, auxiliary pump (See Fig.# 2.17)	1	
2.15	9	301121-000	Bar, buss	1	
2.15	10	301125-000	Standoff	1	
2.15	11	300110-000	Block, fuse	1	
2.15	12	25275-06	Fuse, 15 AMP control	1	
2.15	13	NSS	Screw, machine (M3.5x0.6MM 8M LG)	1	
2.15	14	301123-000	Bar, buss	1	"E" TYPE
2.15	15	301147-000	Harness, wiring	1	
2.15	16	301120-000	Bar, buss	1	
2.15	17	-----	Contactor, forward & rearward (See Fig.# 2.16)	1	
2.15	18	301126-000	Base	1	
2.15	19	50003-02	Screw, machine (M8x1.25MM 20M LG)	As Req'd.	
2.15	20	50001-11	Lockwasher	As Req'd.	
2.15	21	50000-13	Washer, flat	As Req'd.	
2.15	22	25094-02	Fuse, 500 AMP power (FOR "E" ONLY)	1	"E" TYPE
2.15	22	25094-01	Fuse, 300 AMP power ("EE" DRIVE)	1	"EE"TYPE
2.15	23	25094-03	Fuse, 400 AMP power ("EE" Hydraulic)	1	"EE"TYPE
2.15	24	29408-00	Bar, buss	1	"EE"TYPE
2.15	25	202009	Suppression, forward/rearward	2	
2.15	25	202004	Suppression, 1A contactor	1	

* - NOT SHOWN BUT IS ON CONTACTOR PANEL ASSEMBLY (SEE ITEM # 25: EXAMPLE)

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
2.22	1	29030-01	Light, 24 volt RED flashing	1	24 volt
2.22	1	29030-02	Light, 36 volt RED flashing	1	36 volt
2.22	1	29030-04	Light, 24 volt AMBER flashing	1	24 volt
2.22	1	29030-05	Light, 36 volt AMBER flashing	1	36 volt
2.22	2	NSS	Lens	1	
2.22	3	NSS	Reflector	1	
2.22	4	300792-000	Bulb, 24 volt (FLASHING ONLY)	1	24 volt
2.22	4	300793-000	Bulb, 36 volt (FLASHING ONLY)	1	36 volt
2.22	5	NSS	Screw	3	
2.22	6	NSS	Base	1	
2.22	7	11016-02	Washer, flat	2	
2.22	8	11170-05	Nut	2	
2.22	9	11823-06	Connector, butt	2	
2.22	10	52-07901-03	Wire, red #16 AWG (16 feet)	As Req'd.	
2.22	11	11854-06	Screw, cap	2	
2.22	12	11823-27	Connector, #6 stud	1	
2.22	13	25332-01	Tie, wire	As Req'd.	
2.22	14	11823-12	Connector, 3/8" stud	2	
2.22	15	52-07901-01	Wire, black #16 AWG (14 feet)	As Req'd.	
2.22	16	49680-00	Hanger	1	
2.22	17	29831-00	Light, strobe (red)	1	
2.22	*	52-07907-00	Cable, 16/2 (10 feet) Strobe light	As Req'd.	
2.22	18	49439-00	Lamp, adjustable 24 volt with switch	1	24 volt
2.22	*	301439-000	Light, 24 volt sealed	1	24 volt
2.22	18	49439-01	Lamp, adjustable 24 volt with switch	1	36 volt
2.22	*	301439-001	Light, 36 volt sealed	1	36 volt
2.22	*	49266-00	Bracket, lamp	1	
2.22	*	14928-00	Holder, fuse	1	
2.22	*	25275-01	Fuse, 10A	1	
2.22	*	11823-06	Connector, butt splice	1	
2.22	*	11823-27	Connector, #6 Ring	1	
2.22	*	11823-12	Connector, 3/8" Ring	1	
2.22	*	49991-00	Connector, 3-way splice	2	
2.22	*	52-07907-00	Cable, 16/2 (10 feet) for work lights	As Req'd.	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.3	1	49594-02	Diagnostic	1	
3.3	2	49649-02	Reducer	1	
3.3	3	49604-01	O ring	1	
3.3	4	49651-02	Tee	1	
3.3	5	49604-02	O ring	1	
3.3	6	12391-06	O ring	1	
3.3	7	49642-04	Hose	1	
3.3	8	49596-00	Valve, relief	1	
3.3	9	49651-01	Tee	2	
3.3	10	49604-01	O ring	2	
3.3	11	12391-05	O ring	1	
3.3	12	42019-00	Valve, relief	1	
3.3	13	49652-01	Tee	1	
3.3	14	12391-05	O ring	1	
3.3	15	49604-01	O ring	1	
3.3	16	49597-01	Elbow, 90°	2	
3.3	17	12391-05	O ring	1	
3.3	18	42018-00	Tee	1	
3.3	19	49604-01	O ring	2	
3.3	20	49517-12	Hose	1	
3.3	21	49656-01	Adapter	1	
3.3	22	49604-01	O ring	1	
3.3	23	12391-05	O ring	1	
3.3	24	49653-01	Elbow, 90°	1	
3.3	25	49604-01	O ring	1	
3.3	26	12391-05	O ring	1	
3.3	27	-----	Reservoir assembly (See Fig.# 3.20)	1	
3.3	28	49623-01	Elbow, 90°	2	
3.3	29	49604-01	O ring	1	
3.3	30	-----	Steering control valve (See Fig.# 3.26)	1	
3.3	31	49517-03	Hose	1	
3.3	32	49956-02	Filter assembly	1	
3.3	33	201435	Element, filter	1	
3.3	34	49666-12	Reducer	2	
3.3	35	12391-08	O ring	1	
3.3	36	49653-01	Elbow, 90°	1	
3.3	37	12391-05	O ring	1	
3.3	38	49604-01	O ring	1	
3.3	39	11009-04	Lockwasher	2	
3.3	40	11045-03	Screw, cap	2	
3.3	41	52-05104-00	Guard, hose	As Req'd.	
3.3	42	25332-01	Tie, wire	4	
3.3	43	52-05054-00	Hose (.8 feet)	As Req'd.	
3.3	44	14859-04	Clamp, hose	2	
3.3	45	49674-01	Elbow, beaded	1	
3.3	46	12391-07	O ring	1	
3.3	47	49595-00	Check, valve	1	
3.3	48	12391-05	O ring	1	
3.3	49	49604-01	O ring	1	
3.3	50	49642-06	Hose	1	
3.3	51	49656-10	Adapter	1	
3.3	52	49604-01	O ring	1	
3.3	53	12391-03	O ring	1	
3.3	54	49517-02	Hose	1	
3.3	55	-----	Aux. pump/motor assy. (See Fig.# 3.30)	1	

FIG ITEM		PART #	NAME	# FOR ASSY.	UNIT
#	#				
3.10	1	49582-02	Hose	1	
3.10	2	52-05104-00	Guard, hose (2.3 feet)	As Req'd.	
3.10	3	49655-01	Adapter, long	3	
3.10	4	49604-01	O ring	1	
3.10	5	12391-05	O ring	1	
3.10	6	-----	Steering control valve (See Fig.# 3.26)	1	
3.10	7	-----	Cylinder, steering (See Fig.# 3.11)	1	
3.10	8	49654-01	Elbow, 45°	1	
3.10	9	49604-01	O ring	1	
3.10	10	12391-05	O ring	1	
3.10	11	49642-07	Hose	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.17	15	49656-15	Adapter	1	
3.17	16	12391-08	O ring	1	
3.17	17	49604-02	O ring	1	
3.17	18	49615-02	Tee	4	
3.17	19	49604-02	O ring	2	
3.17	20	49516-37	Hose assembly	1	
3.17	21	49516-13	Hose assembly	1	
3.17	22	49594-02	Diagnostic	1	
3.17	23	49516-01	Hose assembly	1	
3.17	24	49516-38	Hose assembly	1	
3.17	25	41241-00	Valve, flow limit (Velocity Fuse)	2	
3.17	26	49604-02	O ring	1	
3.17	27	12391-07	O ring	1	
3.17	28	49632-02	Adapter, bulk head	1	
3.17	29	49604-02	O ring	2	
3.17	30	11016-17	Washer, flat	1	
3.17	31	-----	Cylinder assembly (See Fig.# 3.18)	1	
3.17	32	49641-00	Hose assembly, 89/180	2	89/180
3.17	32	49641-00	Hose assembly, 95/198	2	95/198
3.17	32	49641-01	Hose assembly, 107/226	2	107/226
3.17	32	49641-02	Hose assembly, 111/240	2	111/240
3.17	32	49641-03	Hose assembly, 119/256	2	119/256
3.17	32	49641-04	Hose assembly, 127/276	2	127/276
3.17	32	49641-05	Hose assembly, 137/300	2	137/300
3.17	32	49641-35	Hose assembly, 143/318	2	143/318
3.17	32	49641-44	Hose assembly, 149/330	2	149/330
3.17	33	49624-02	Nut	1	
3.17	34	49625-00	Fitting, special	1	
3.17	35	49604-02	O ring	1	
3.17	36	12391-06	O ring	1	
3.17	37	49219-00	Tube assembly	1	
3.17	38	30320-01	Regulator, flow	1	
3.17	39	49656-18	Adapter	1	
3.17	40	12391-07	O ring	1	
3.17	41	49604-03	O ring	1	
3.17	42	41227-00	Tube assembly	1	
3.17	43	49656-03	Adapter	1	
3.17	44	49604-03	O ring	1	
3.17	45	12391-07	O ring	1	
3.17	46	40092-01	Cylinder assembly (See Fig.# 3.19)	1	
3.17	47	15677-04	Clamp, hose	2	
3.17	48	11261-06	Nut	1	
3.17	49	11009-06	Lockwasher	1	
3.17	50	11045-03	Screw, cap	1	
3.17	51	49327-00	Clamp, conduit	1	
3.17	52	11016-11	Washer, flat	1	
3.17	53	49717-01	Nut, self-locking	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.24	*	41242-00	Single Reach Diverter Valve Assembly	1	
3.24	1	12318-06	Plug	2	
3.24	2	12391-06	O ring	1	
3.24	3	41187-00	Valve, solenoid	4	
3.24	4	41230-00	Manifold	1	
3.24	5	12318-01	Plug	2	
3.24	6	12391-01	O ring	1	
3.24	7	12318-03	Plug	2	
3.24	8	12391-03	O ring	1	
3.24	K	200073	Kit, seal (for item # 3)	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.31	1K	NSS	Seal, oil	1	
3.31	2	300681-002	Stator	1	
3.31	3K	NSS	Seal	1	
3.31	4K	NSS	Seal, rubber	1	
3.31	5K	NSS	Plate, wear	1	
3.31	6	300681-007	Gear, drive	1	
3.31	7	NA	Shaft, drive	1	
3.31	8	NA	Key	1	
3.31	9	NA	Gear	1	
3.31	10	300681-008	Gear, idler	1	
3.31	11	NA	Ball	1	
3.31	12	NA	Ring, retainer	2	
3.31	13	NA	Shaft, idler	1	
3.31	14	NA	Gear	1	
3.31	15	200033	Pin, dowel	1	
3.31	16K	NSS	Plate, pressure	1	
3.31	17K	NSS	Seal	1	
3.31	18K	NSS	Seal, plate	1	
3.31	19	300681-006	Housing, end gear	1	
3.31	20	202065	Plug	1	
3.31	21	300143-000	Screw, 12 point	8	
3.31	K	300184-000	Kit, seal	1	

(CONTAINS ITEMS MARKED WITH "K")

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
4.1	1	40919-00	Block	1	
4.1	2	11894-06	Screw, cap	1	
4.1	3	40923-00	Post 95/138,198,210	1	
4.1	3	40923-01	Post ALL ELSE	1	
4.1	4	11884-01	Screw, socket	2	
4.1	5	11170-08	Locknut	2	
4.1	6	40421-00	Pad, side	1	
4.1	7	40419-00	Mat, pedal	1	
4.1	8	40786-01	Pedal	1	
4.1	9	40415-00	Mat, floor	1	
4.1	10	49922-01	Screw, flat head	15	
4.1	11	40236-01	Plate, floor	1	
4.1	12	11073-26	Pin, roll	1	
4.1	13	40789-01	Shaft	1	
4.1	14	40420-00	Pad, side	1	
4.1	15	40234-00	Cover, SCR	1	
4.1	*	52-05007-00	Edging	As Req'd.	
4.1	16	40238-02	Cover, instrument	1	
4.1	17	14851-02	Nut, clip	10	
4.1	18	27561-03	Edging	1	
4.1	19	40233-00	Angle	1	
4.1	20	49892-01	Screw, flat head	1	
4.1	21	40418-00	Pad, seat	1	
4.1	22	41784-01	Cover, panel - Single Function Control	1	
4.1	22	41784-00	Cover, panel - Multi-Function Control	1	
4.1	23	40239-01	Cover, 16.5" battery	1	16.5 Inch
4.1	23	40239-02	Cover, 14.5" battery	1	14.5 Inch
4.1	23	49239-03	Cover, 21.0" battery	1	21.0 Inch
4.1	24	11695-07	Bushing	2	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
4.8	1	11135-02	Pin with cotter pin	2	
4.8	2	40946-00	Block, pivot	1	
4.8	3	40093-01	Brake assembly (Contains Items Marked with "K")	1	
4.8	4K	201873	Arm	1	
4.8	5K	202131	Nut (torque to 55 ft./lbs.)	1	
4.8	6K	202132	Lockwasher	1	
4.8	7K	202133	Washer, flat	1	
4.8	8K	202134	Plate, mounting	1	
4.8	9K	201875	Cam	1	
4.8	10K	201868	Shoe, brake	2	
4.8	11K	201869	Spring	1	
4.8	12K	201867	Block, drive	2	
4.8	13K	201864	Nut (torque to 40 ft./lbs.)	3	
4.8	14K	202090	Washer, cam	1	
4.8	15K	201871	Screw (torque to 45 ft./lbs.)	1	
4.8	16K	202135	Washer	1	
4.8	17K	201870	Washer, shoe	2	
4.8	18K	201866	Arm, actuator	1	
4.8	19	11854-02	Screw, cap	4	
4.8	20	11020-27	Bushing	1	
4.8	21	40936-00	Axle	1	
4.8	22	11020-21	Bushing	1	
4.8	23	11936-03	Washer, flat	1	
4.8	24	11898-03	Ring, retainer	1	
4.8	25	11205-01	Bearing	2	
4.8	26	11039-30	Seal	1	
4.8	27	11160-08	Fitting, grease	1	
4.8	28	22005-06	Washer	1	
4.8	29	11828-06	Lockwasher	1	
4.8	30	11829-06	Nut	1	
4.8	31	12298-00	Cap, hub	1	
4.8	32	22050-03	Wheel, idler	1	
4.8	33	40265-00	Tire, polyurethane	1	
4.8	34	40136-00	Wheel	1	
4.8	35	-----	Cylinder, idler brake (See Fig.# 3.37)	1	
4.8	36	40945-00	Rod, spring	1	
4.8	37	49746-00	Spring	1	
4.8	38	40885-00	Sleeve	1	
4.8	39	11170-10	Nut	1	
4.8	40	11429-04	Pin, hair cotter	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
5.3	1	11857-05	Shim, .050"	As Req'd.	
5.3	1	11857-12	Shim, .025"	As Req'd.	
5.3	2	21089-02	Bearing	2	
5.3	3	-----	Chain, lift	2	
5.3	4	30558-00	Anchor, chain	2	
5.3	5	30554-00	Pin, chain	2	
5.3	6	49837-00	Nut	2	
5.3	7	11486-12	Nut, jam	2	
5.3	8	-----	Cylinder assembly (See Fig.# 5.4)	1	
5.3	9	-----	Column, outer	1	

	Outer Column Assembly	
	ITEM # 3	ITEM # 9
89/126	14835-44	40518-01
95/138	14835-45	40518-02
107/162	14835-46	40518-03
119/186	14835-47	40518-04

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
5.10	1	11073-35	Pin, roll	6	
5.10	2	40357-02	Pin	2	
5.10	3	41700-00	Frame, rear standard	1	
5.10	3	40589-00	Frame, rear 20" bearing	1	95/210
5.10	4	40358-02	Screw, special	2	
5.10	5	40355-02	Arm, outer left hand	1	
5.10	6	49925-04	Shim, .187"	As Req'd.	
5.10	6	49925-05	Shim, .125"	As Req'd.	
5.10	6	49925-06	Shim, .062"	As Req'd.	
5.10	7	40103-02	Bearing	4	
5.10	8	40103-03	Bearing	2	
5.10	9	40104-00	Bearing, thrust	4	
5.10	10	-----	Cylinder, left reach (See Fig.# 3.32)	1	
5.10	11	-----	Cylinder, right reach (See Fig.# 3.32)	1	
5.10	12	11073-22	Pin, roll	2	
5.10	13	40356-00	Nut	2	
5.10	14	49967-13	Shim, .005"	As Req'd.	
5.10	14	49967-14	Shim, .015"	As Req'd.	
5.10	15	40357-01	Pin	2	
5.10	16	-----	Frame, front (See Fig.# 5.11)	1	
5.10	17	40358-01	Screw, special	2	
5.10	18	40359-00	Pin, roll	2	
5.10	19	11160-11	Fitting, grease	10	
5.10	20	11852-21	Screw, flat head	4	
5.10	21	40354-00	Cap	4	
5.10	22	49940-00	Rearing, roller	4	
5.10	23	40355-01	Arm, outer right hand	1	
5.10	24	40345-00	Arm, inner	1	
5.10	25	11073-04	Pin, roll	4	
5.10	26	13813-30	Pin	4	
5.10	27	11852-02	Screw, flat head	2	
5.10	28	40548-00	Washer	2	
5.10	29	21089-02	Bearing, 2 stage	6	2 STAGE
5.10	29	49832-00	Bearing, 3 stage	6	3 STAGE
5.10	30	11857-05	Shim, .050"	As Req'd.	2 STAGE
5.10	30	11857-12	Shim, .025"	As Req'd.	2 STAGE
5.10	30	11857-10	Shim, .050"	As Req'd.	3 STAGE
5.10	30	11857-11	Shim, .025"	As Req'd.	3 STAGE

ELECTRIC REACH TRUCK

NUMERICAL INDEX

This Numerical Index gives part numbers and figure numbers on which they are listed. Item numbers have also been listed for easier location of part numbers.

<u>PART #</u>	<u>FIG. #</u>	<u>ITEM #</u>	<u>PART #</u>	<u>FIG. #</u>	<u>ITEM #</u>
05335-00	0.1	12	11016-03	4.2	11
1-08759-00	3.20	1	11016-03	3.34	7
11009-01	2.5	28	11016-03	4.4	26
11009-01	2.13	7	11016-03	3.20	7
11009-01	2.6	18	11016-03	4.6	14
11009-01	1.2	16	11016-03	4.5	26
11009-01	2.14	12	11016-03	4.6	9
11009-01	4.3	12	11016-03	5.7	19
11009-03	2.14	10	11016-04	1.2	2
11009-03	2.5	18	11016-04	4.7	14
11009-03	2.7	3	11016-05	1.1	16
11009-03	2.13	5	11016-05	3.18	4
11009-04	2.5	20	11016-06	1.1	18
11009-04	2.28	23	11016-06	5.1	15
11009-04	3.3	39	11016-06	5.5	16
11009-04	2.6	29	11016-08	5.7	9
11009-04	2.29	8	11016-08	5.12	17
11009-05	2.11	3	11016-08	4.7	12
11009-05	2.13	14	11016-08	5.4	16
11009-05	2.8	8	11016-11	3.17	52
11009-05	2.9	9	11016-11	3.16	61
11009-05	3.7	3	11016-12	2.11	2
11009-05	2.14	15	11016-12	2.14	14
11009-06	3.34	6	11016-12	3.27	6
11009-06	3.16	58	11016-12	2.13	13
11009-06	1.4	23	11016-17	3.17	30
11009-06	3.17	49	11016-17	3.16	28
11009-06	5.1	11	11016-21	2.6	19
11009-06	5.8	10	11016-21	2.14	11
11009-08	5.11	14	11016-21	2.5	16
11009-08	5.12	55	11016-21	2.13	6
11009-08	5.6	9	11016-27	3.33	18
11009-08	5.13	14	11016-27	4.9	4
11015-16	1.3	9	11018-03	1.2	3
11015-30	1.4	24	11018-08	4.4	16
11016-01	2.28	22	11018-08	4.5	16
11016-01	2.29	7	11018-11	4.4	27
11016-01	2.6	30	11018-11	4.5	27
11016-01	4.4	54	11020-21	4.8	22
11016-01	4.5	54	11020-27	4.3	14
11016-02	2.22	7	11020-27	4.8	20
11016-02	3.34	21	11020-34	3.32	12
11016-02	3.7	4	11020-34	3.33	14
11016-02	1.2	31	11020-37	3.32	12
11016-02	4.7	25	11020-37	5.12	61
11016-03	1.2	19	11025-02	4.4	15

ELECTRIC REACH TRUCK

NUMERICAL INDEX

<u>PART #</u>	<u>FIG. #</u>	<u>ITEM #</u>	<u>PART #</u>	<u>FIG.#</u>	<u>ITEM #</u>
41695-03	5.6	1	42062-00	3.23	*
41695-04	5.6	1	42062-01	3.23	*
41695-05	5.6	1	42066-00	3.34	22
41695-06	5.6	1	42067-00	3.35	*
41695-07	5.6	1	42068-00	3.34	17
41695-08	5.6	1	42074-00	4.4	43K
41695-09	5.6	1	42093-00	5.11	3
41697-00	5.5	*	42094-00	5.13	3
41698-00	5.5	*	42115-00	4.10	2
41700-00	5.10	3	42117-00	4.10	1
41704-00	5.12	40	42125-00	4.10	9
41710-00	2.14	1	42127-00	4.12	2
41711-00	2.14	8	42129-00	4.12	1
41714-00	2.14	4	42136-00	4.12	9
41715-00	2.14	2	42137-00	4.11	2
41757-01	2.15	1	42137-00	4.11	2
41757-02	2.15	1	42138-00	4.11	3
41768-00	3.20	3	42139-00	4.11	10
41768-01	3.20	3	42140-00	4.11	9
41771-00	2.6	23	42143-00	4.11	6
41771-00	2.28	13	42176-00	4.10	3
41777-00	2.19	*	42178-00	4.12	3
41783-00	3.28	*	42183-00	4.4	44K
41784-00	4.1	22	42219-00	2.5	27
41784-01	4.1	22	42219-00	2.6	15
41788-00	2.13	17	42220-00	2.5	19
41790-00	4.2	21	42222-00	2.5	8
41792-00	2.28	20	42223-00	2.5	14
41792-00	2.6	8	42223-01	2.5	14
41794-00	4.4	52	42224-00	2.5	11
41794-00	4.5	52	449919-03	4.6	1
41796-00	4.4	49	48604-03	3.16	50
41796-00	4.5	49	49219-00	3.16	35
41799-00	2.29	3	49219-00	3.17	37
41800-00	2.23	4	49239-03	4.1	23
41861-00	4.4	2	49262-00	0.1	18
41949-00	5.14	*	49266-00	2.22	*
41949-01	5.14	*	49283-00	2.28	24
41949-02	5.14	*	49326-00	2.23	3
41981-00	5.13	5	49327-00	3.17	51
41981-00	5.11	5	49327-00	3.16	60
41997-00	3.29	*	49328-00	3.13	21
42018-00	3.3	18	49329-00	4.4	45
42019-00	3.3	12	49329-00	4.5	45
42027-00	2.6	31	49330-00	4.4	48
42032-00	2.6	14	49330-00	4.5	48
42036-00	4.4	8	49333-00	3.13	18
42037-00	2.6	9	49343-00	2.14	3
42037-01	2.6	10	49350-04	2.5	23
42038-00	4.4	7	49350-04	2.6	13
42039-00	4.4	4	49367-01	2.6	17
42040-00	4.4	5K	49367-03	2.5	26

FIG. #	ITEM #	PART #	NAME	# FOR ASSY.	UNITS
0.1	1	26743-00	Decal, DOHG	1	
0.1	2	49990-00	Decal, warning	2	
0.1	3	49975-00	Decal, warning	1	
0.1	4	49728-00	Decal, operating	1	
0.1	5	49384-05	Decal, BT PRIME-MOVER	2	
0.1	6	52-00254-00	Paint, orange	As Req'd.	
0.1	6	52-00257-00	Spray, orange	As Req'd.	
0.1	6	52-00267-00	Paint, graphite green	As Req'd.	
0.1	6	52-00269-00	Spray, graphite green	As Req'd.	
0.1	6	52-00237-00	Paint, safety yellow	As Req'd.	
0.1	6	52-00260-00	Spray, safety yellow	As Req'd.	
0.1	6	52-00247-00	Paint, safety orange	As Req'd.	
0.1	6	52-00276-00	Spray, safety orange	As Req'd.	
0.1	7	49895-00	Decal, blank function	1	
0.1	8	49899-00	Decal, fork function	1	
0.1	9	40424-00	Decal, control function	1	
0.1	10	NSS	Nameplate	1	
0.1	11	NSS	Rivet, 1/8"	4	
0.1	12	05335-00	Box, manual	1	
0.1	13	40412-04	Plate, TT	1	
0.1	14	40412-01	Plate, TX	1	
0.1	15	49878-01	Plate, BT PRIME-MOVER	1	
0.1	16	26270-00	Decal, emergency disconnect	1	
0.1	17	302105-000	Decal, multi-function control decal	1	
0.1	18	49262-00	Decal, special oil	1	
0.1	*	301363-000	Manual, Operator	1	
0.1	*	300378-005	Manual, Parts	1	
0.1	*	300374-002	Manual, Service	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
2.5	1	11176-01	Screw, machine	2	
2.5	2	-----	Switch assembly (See Fig.# 4.4 - 4.5)	1	
2.5	3	25332-01	Tie, wire	6	
2.5	4	49830-01	Heater, 24 Volt	3	24 Volt
2.5	4	49830-00	Heater, 36 Volt	3	36 Volt
2.5	5	49771-09	Fitting, wire	6	
2.5	6	-----	Control, panel (See Fig.# 2.12)	1	
2.5	7	-----	Panel, contactor (See Fig.# 2.13 - 2.15)	1	
2.5	8	42222-00	Harness, wiring	1	
2.5	9	-----	Valve, lift control (See Fig.# 3.22)	1	
2.5	10	-----	Valve, auxiliary control (See Fig.# 3.21) (Not used with multi-function handle)	1	
2.5	11	42224-00	Bracket, heater	1	
2.5	12	11045-03	Screw, cap	2	
2.5	13	11176-03	Screw, machine	2	
2.5	14	42223-00	Heater, 24 Volt	1	24 Volt
2.5	14	42223-01	Heater, 36 Volt	1	36 Volt
2.5	15	11045-10	Screw, cap	2	
2.5	16	11016-21	Washer, flat	6	
2.5	17	11129-03	Nut	4	
2.5	18	11009-03	Lockwasher	4	
2.5	19	42220-00	Bracket	1	
2.5	20	11009-04	Lockwasher	4	
2.5	21	11170-04	Nut	2	
2.5	22	26618-05	Spacer	2	
2.5	23	49350-04	Resistor, 24 Volt 0 OHM	1	24 Volt
2.5	23	301552-000	Diode, zener 36 Volt	1	36 Volt
2.5	24	49831-00	Thermostat	1	
2.5	25	11176-20	Screw, machine	4	
2.5	26	49367-03	Relay	1	
2.5	27	42219-00	Bracket, relay	1	
2.5	28	11009-01	Lockwasher	4	
2.5	29	11261-01	Nut	4	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
2.12	6	200043	Bar, bus	1	
2.12	7	NA	Hexhead, M5 x .80, 10mm long	8	
2.12	*	NA	Lockwasher, M5	8	
2.12	*	NA	Washer, M5 flat	8	
2.12	8	200042	Bar, buss	1	
2.12	9	200041	Bar, buss	1	
2.12	10	300084-000	Card, TX control	1	TX CARD
2.12	10	301281-000	Card, TT control	1	TT CARD
2.12	10	302103-000	Card, TX control, REMANUFACTURED	1	TX CARD
2.12	10	301976-000	Card, TT control, REMANUFACTURED	1	TT CARD
2.12	11	200059	Harness, SCR wiring	1	
2.12	11A	27694-00	Kit, A plug	1	
2.12	11B	27702-02	Kit, B plug	1	
2.12	11C	302211-000	Kit, Y plug	1	
2.12	11D	301567-000	Kit, Z plug	1	
2.12	12	200052	Kit, 1 Rec	1	
2.12	13	200053	Insulation, 1 Rec	1	
2.12	14	NA	Hexhead, M5 x .80, 50mm long	4	
2.12	15	200044	Bar, buss	1	
2.12	16	NA	Panhead, M3.5 x .60, 8mm long	8	
2.12	*	NA	Lockwasher, M3.5	6	
2.12	*	NA	Washer, M3,5 flat	6	
2.12	17	NA	Panhead, M3.5 x .60, 44mm long	1	
2.12	*	NA	Lockwasher, M3.5	1	
2.12	*	NA	Washer, M3.5 flat	1	
2.12	18	NA	Panhead, M3.5 x .60, 23mm long	8	
2.12	*	NA	Lockwasher, M3.5	8	
2.12	*	NA	Washer, M3.5 flat	8	
2.12	19	200050	Snubber	4	
2.12	20	200051	Spider and wire assembly	1	
2.12	21	300086-000	Thermal protector	1	
2.12	22	200038	Reactor	1	
2.12	23	NA	Hex cap, M6 x 1, 16mm long	1	
2.12	*	NA	Lockwasher, M6	1	
2.12	*	NA	Washer, M6 flat	1	
2.12	24	NA	Nut, M6 x 1.25	4	
2.12	25	50001-11	Lockwasher, M8	2	
2.12	*	NA	Washer, M8 flat	2	
2.12	26	200049	Shunt	1	
2.12	27	200048	Post	1	
2.12	28	201297	Rectifier (3 Rec and 4 Rec)	2	
2.12	29	200054	Strap, capacitor	2	
2.12	30	200046	Heatsink	1	
2.12	31	200045	Insulation, heatsink	1	
2.12	32	300085-000	Capacitor	1	
2.12	33	200047	Bushing	3	
2.12	34	NA	Hexcap, M8 x 1.25, 16mm long	3	
2.12	*	50001-11	Lockwasher, M8	3	
2.12	*	NA	Washer, M8	3	

*** Local purchase hardware for reference only.**

FIG. #	ITEM #	PART #	NAME	# FOR ASSY.	UNITS
2.19	*	300282-000	Lift Pump Motor Assembly, 24 Volt	1	24 Volt
2.19	*	300281-000	Lift Pump Motor Assembly, 36 Volt	1	36 Volt
2.19	*	41777-00	Lift Pump Motor Assembly, RR-45Z	1	RR-45Z
2.19	1	-----	Coil, field	1	
2.19	2	-----	Terminal assembly	1	
2.19	3	-----	Brush	1	
2.19	4	300418-000	Spring, brush	8	
2.19	5	-----	Plate, brush	8	
2.19	6	300420-000	Bearing	1	
2.19	7	300421-000	Washer, wave	1	
2.19	8	-----	Head, commutator end	1	
2.19	9	-----	Band, head	1	
2.19	10	-----	Armature	1	
2.19	11	301280-001	Fan	1	
2.19	12	300413-000	Ring, retainer	1	
2.19	13	300412-000	Bearing	1	
2.19	14	-----	Head, drive end	1	
2.19	15	29056-00	Kit, solid cover - "EE"	1	"EE"TYPE

	Lift Pump Motor Assembly		
	300282-000 (24 volt)	300281-000 (36 volt)	41777-00 (RR-45Z)
1	300416-000	300434-000	301280-003
2	300423-000	300423-000	301280-007
3	300417-000	300430-000	301280-004
5	300419-000	300419-000	301280-005
8	300422-000	301494-000	301280-000
9	300424-000	301495-000	301280-008
10	300414-000	301497-000	301280-002
14	300411-000	301496-000	300411-000

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
2.28	1	-----	Control, panel (See Fig.# 2.12)	1	
2.28	2	26204-00	Meter, hour	1	
2.28	3	23228-01	Indicator, 24 Volt battery discharge (BDI)	1	24 Volt
2.28	3	23228-02	Indicator, 36 Volt battery discharge (BDI)	1	36 Volt
2.28	4	20151-00	Switch, key	1	
2.28	5	20479-00	Switch, brake	1	
2.28	6	-----	Valve, lift control (See Fig. # 3.22)	1	
2.28	7	-----	Valve, auxiliary control (See Fig. # 3.21)	1	
2.28	8	49965-00	Switch, auxiliary	2	
2.28	9	-----	Handle assembly (See Fig. # 4.5)	1	
2.28	10	27303-00	Switch, master	1	
2.28	11	29304-00	Potentiometer	1	
2.28	12	49607-00	Diode	2	
2.28	13	41771-00	Harness, wiring	1	
2.28	14	26618-04	Spacer	1	
2.28	15	23309-01	Horn, 24 Volt	1	24 Volt
2.28	15	23309-02	Horn, 36 Volt	1	36 Volt
2.28	16	11170-05	Nut	1	
2.28	17	49605-00	Filter, horn	1	
2.28	18	300979-000	Wire assembly, RR-45Z Part	1	RR-45Z
2.28	19	20323-00	Switch, lift pump #2, RR-45Z Part	1	RR-45Z
2.28	20	41792-00	Wire assembly, RR-45Z Part	1	RR-45Z
2.28	21	11045-03	Screw, cap	2	
2.28	22	11016-01	Washer, flat	2	
2.28	23	11009-04	Lockwasher	2	
2.28	24	49283-00	Alarm, travel	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.7	1	41243-01	Coil, 24 volt	As Req'd.	24 VOLT
3.7	1	41243-00	Coil, 36 volt	As Req'd.	36 VOLT
3.7	2	11854-03	Screw, cap	3	
3.7	3	11009-05	Lockwasher	3	
3.7	4	11016-02	Washer, flat	3	
3.7	5	49617-03	Hose assembly	2	
3.7	6	41199-00	Tube assembly	1	
3.7	7	49604-00	O ring	4	
3.7	8	49656-00	Adapter	4	
3.7	9	49604-00	O ring	1	
3.7	10	12391-03	O ring	1	
3.7	11	-----	Dividter valve assembly (See Fig.# 3.24)	1	
3.7	12	49617-02	Hose assembly	2	
3.7	13	49617-04	Hose assembly	2	
3.7	14	49655-00	Fitting, straight long	2	
3.7	15	49604-00	O ring	1	
3.7	16	12391-03	O ring	1	
3.7	17	49653-00	Elbow, 90°	4	
3.7	18	12391-03	O ring	1	
3.7	19	49604-00	O ring	1	
3.7	20	41226-00	Tube assembly	2	
3.7	21	49604-00	O ring	1	
3.7	22	-----	Cylinder, reach (See Fig.# 3.32)	2	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.14	1	-----	Reservoir assembly (See Fig.# 3.20)	1	
3.14	2	49631-10	Adapter	1	
3.14	3	49604-02	O ring	1	
3.14	4	49641-22	Hose assembly	1	
3.14	5	49654-12	Elbow, 90°	1	
3.14	6	49604-02	O ring	1	
3.14	7	12391-07	O ring	1	
3.14	8	49641-26	Hose assembly	1	
3.14	9	41244-00	Tube assembly	1	
3.14	10	49604-02	O ring	1	
3.14	11	49623-02	Elbow, 90°	1	
3.14	12	49604-02	O ring	1	
3.14	13	-----	Cylinder, lift (See Fig.# 3.15)	1	
3.14	14	49656-15	Adapter	1	
3.14	15	49604-02	O ring	1	
3.14	16	12391-08	O ring	1	
3.14	17	40107-00	Valve, flow control	1	
3.14	18	12391-07	O ring	1	
3.14	19	25109-05	Adapter	1	
3.14	20	12391-03	O ring	1	
3.14	21	-----	Valve, lift control (See Fig.# 3.22)	1	
3.14	22	49656-14	Adapter	1	
3.14	23	12391-07	O ring	1	
3.14	24	49604-02	O ring	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.21	*	41331-00	Auxiliary Control Valve Assembly	1	
3.21	1	201546	Pin, roll	1	
3.21	2	202138	Cam, switch	1	
3.21	3	201643	Jam, nut	1	
3.21	4	202139	Nut	2	
3.21	5	201553	Lockwasher	2	
3.21	6	202140	Bracket	1	
3.21	7	202141	Cap	1	
3.21	8	202142	Cap, adapter	1	
3.21	9K	NSS	Ring, retainer	1	
3.21	10	201578	Screw, machine	2	
3.21	11	201556	Washer, flat	2	
3.21	12	201639	Switch	1	
3.21	13	202144	Plug	1	
3.21	14K	NSS	O ring	1	
3.21	15	201630	Spring	1	
3.21	16	202091	Plunger	1	
3.21	17	NA	Body	1	
3.21	18	NA	Spool	1	
3.21	19	201634	Bushing	1	
3.21	20	202143	Spring	1	
3.21	21	202096	Washer	1	
3.21	22	202097	Washer	1	
3.21	23K	NSS	O ring	2	
3.21	24K	NSS	Seal, wiper	1	
3.21	K	202104	Kit, seal	1	

(CONTAINS ITEMS MARKED WITH "K")

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.28	*	41680-00	Lift Pump Assembly, 24 Volt "E"	1	Single
3.28	*	41680-00	Lift Pump Assembly, 36 Volt "EE"	1	Single
3.28	*	41680-02	Lift Pump Assembly, 24 Volt "EE"	1	Single
3.28	*	41783-00	Lift Pump Assembly, "Z" LIFT	1	Double
3.28	1K	NSS	Seal, shaft	1	
3.28	2	-----	Body	1	
3.28	3	202303	Pin, dowel	2	
3.28	4K	NSS	Nylatron	1	
3.28	5K	NSS	Spacer, rubber	1	
3.28	6K	NSS	Plate, wear	1	
3.28	7	-----	Gear, drive	1	
3.28	8K	NSS	Plate, thrust	1	
3.28	9	NSS	Seal, gasket	1	
3.28	10	300249-000	Cover-side, port	1	
3.28	11	202297	Washer, flat	4	
3.28	12	202296	Screw, cap	4	
3.28	13	202299	Plug, pipe	1	
3.28	14	-----	Gear, driven	1	
3.28	K	300250-000	Kit, seal	1	

(CONTAINS ITEMS MARKED WITH "K")

	Lift Pump Assembly		
	41680-00	41680-02	41783-00
Body (2)	300248-000	301327-043	NA
Gear, drive (7)	300247-000	301327-044	301146-000
Gear, driven (14)	300246-000	301327-045	301145-000

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
3.35	*	42067-00	Brake Cylinder Assembly	1	
3.35	1K	NSS	O ring	1	
3.35	2K	NSS	Rod, push	1	
3.35	3K	NSS	Washer	1	
3.35	4K	NSS	Ring, retainer	1	
3.35	5K	NSS	Ring, retainer	1	
3.35	6K	NSS	Spring	1	
3.35	7	NA	Retainer, spring	1	
3.35	8	NA	Boot, dust	1	
3.35	9	NA	Washer	1	
3.35	10	NA	Ring, retainer	1	
3.35	11	NA	Piston	1	
3.35	12	NA	Cup, primary	1	
3.35	13	NA	Spring	1	
3.35	14	NA	O ring	2	
3.35	15	NA	Cartridge	1	
3.35	16	NA	Reservoir	1	
3.35	K	302344-000	Kit, seal (CONTAINS ITEMS MARKED WITH "K")	1	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
4.5	1	40416-00	Handle assembly	1	
4.5	2	40482-01	Grip, hand	1	
4.5	3	14939-00	Switch, horn	1	
4.5	4	49887-01	Tubing, heat shrink	As Req'd.	
4.5	5	40402-00	Shaft	1	
4.5	6	11823-39	Fitting, wire	1	
4.5	7	52-07901-01	Wire, 16 Ga. black	As Req'd.	
4.5	8	11823-10	Fitting, wire	1	
4.5	9	49922-01	Screw, machine	3	
4.5	10	NA	Rivet, pop (1/8"x1/4")	As Req'd.	
4.5	11	40676-00	Brush	2	
4.5	12	20151-00	Switch, key	1	
4.5	13	-----	Cover, seat panel (See Fig.# 4.1)	1	
4.5	14	11695-06	Bushing	2	
4.5	15	11025-02	Ring, retainer	1	
4.5	16	11018-08	Key	1	
4.5	17	14993-30	Washer	1	
4.5	18	11695-01	Bushing	2	
4.5	19	49892-10	Screw, machine	2	
4.5	20	49891-00	Grommet, rubber	2	
4.5	21	11170-05	Nut	2	
4.5	22	-----	Valve, lift control (See Fig.# 3.22)	1	
4.5	23	49717-01	Nut	4	
4.5	24	41324-00	Spacer	2	
4.5	25	11261-06	Nut	2	
4.5	26	11016-03	Washer	4	
4.5	27	11018-11	Key	1	
4.5	28	11695-05	Bushing	2	
4.5	29	41309-00	Rod	1	
4.5	30	49612-06	Screw, cap	2	
4.5	31	41297-00	Block	1	
4.5	32	14993-20	Washer	2	
4.5	33	41313-00	Arm	1	
4.5	34	11271-31	Screw, cap	2	
4.5	35	41312-00	Block	1	
4.5	36	41306-00	Arm	1	
4.5	37	49612-05	Screw, cap	2	
4.5	38	41314-00	Link	2	
4.5	39	11143-05	Screw, cap	1	
4.5	40	41301-00	Handle	1	
4.5	41	11170-06	Nut	1	
4.5	42	11419-03	Nut	2	
4.5	43	40694-00	Arm	1	
4.5	44	11047-13	Screw, cap	1	
4.5	45	49329-00	Joint, ball	2	
4.5	46	49591-00	Rod	1	
4.5	47	11129-03	Nut	2	
4.5	48	49330-00	Screw	1	
4.5	49	41796-00	Lever	1	
4.5	50	14911-03	Screw, machine	2	
4.5	51	49751-04	Nut, flanged	2	
4.5	52	41794-00	Bracket, switch	1	
4.5	53	27303-00	Switch, master	1	
4.5	54	11016-01	Washer, flat	3	
4.5	55	11419-03	Nut	2	
4.5	56	29304-00	Potentiometer	1	
4.5	57	50023-00	Screw, flat head	2	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
4.12	1	42129-00	Axle	2	
4.12	2	42127-00	Toe box, 4" high	2	
4.12	3	42178-00	Plate	2	
4.12	4	11898-02	Ring, retainer	4	
4.12	5	11160-09	Fitting, grease	4	
4.12	6	11857-14	Washer, 10 gauge	8	
4.12	7	11857-16	Washer, 18 gauge	8	
4.12	8	49910-02	Bearing	8	
4.12	9	42136-00	Wheel, load (4 x 3)	4	

FIG #	ITEM #	PART #	NAME	# FOR ASSY.	UNIT
5.7	1	30558-00	Anchor	2	
5.7	2	14835-36	Chain, 89/180 lift	2	89/180
5.7	2	14835-37	Chain, 89/192 lift	2	89/192
5.7	2	14835-37	Chain, 95/198 lift	2	95/198
5.7	2	14835-07	Chain, 95/210 lift	2	95/210
5.7	2	14835-27	Chain, 107/226 lift	2	107/226
5.7	2	14835-38	Chain, 111/240 lift	2	111/240
5.7	2	14835-39	Chain, 119/258 lift	2	119/258
5.7	2	14835-45	Chain, 127/276 lift	2	127/276
5.7	2	14835-46	Chain, 137/300 lift	2	137/300
5.7	2	14835-56	Chain, 143/318 lift	2	143/318
5.7	2	14835-76	Chain, 149/330 lift	2	149/330
5.7	3	30554-00	Pin with cotter pin	2	
5.7	4	49837-00	Nut, wheel	2	
5.7	5	11486-12	Nut, jum	2	
5.7	6	-----	Cylinder assembly (See Fig.# 3.19)	1	
5.7	7	11160-09	Fitting, grease	2	
5.7	8	11831-06	Nut	1	
5.7	9	11016-08	Washer, flat	1	
5.7	10	30553-05	Washer, shim	1	
5.7	11	40045-00	Sheave	1	
5.7	12	49993-02	Race, inner	2	
5.7	13	49994-01	Bearing, roller	2	
5.7	14	30553-06	Washer, shim	5	
5.7	15	26519-02	Pin	1	
5.7	16	26389-00	Nut, spacer	1	
5.7	17	49941-01	Washer, belleville	6	
5.7	18	40565-00	Retainer	1	
5.7	19	11016-03	Washer, flat	2	
5.7	20	11143-03	Screw, cap	1	
5.7	21	40732-00	Plate, shim	2	
5.7	22	41587-00	Sheave, chain	1	
5.7	23	41585-00	Sheave, cable	1	
5.7	24	41581-00	Shaft	1	

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