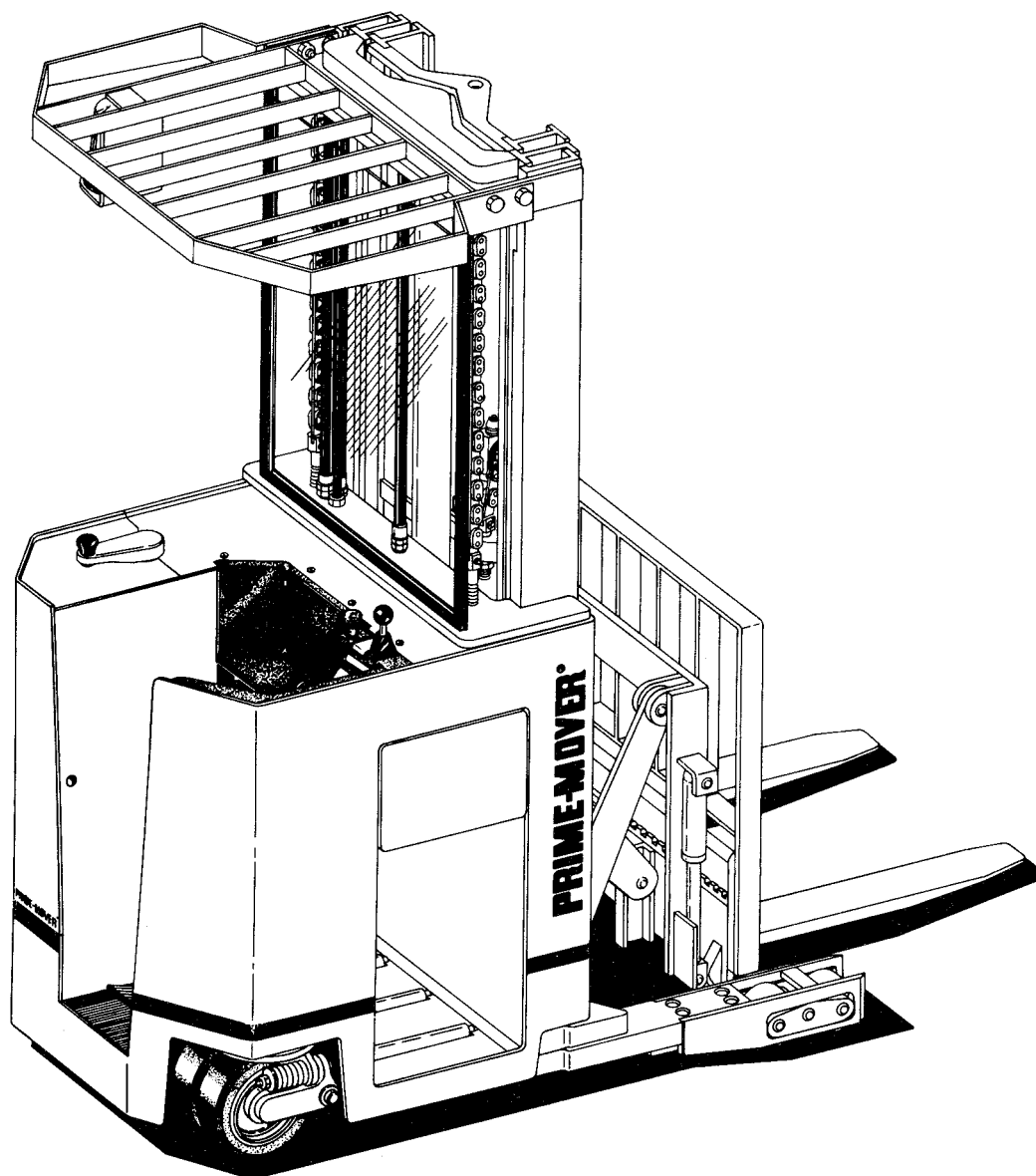


RR-30B Parts Manual

RR-30B REACH TRUCK

RR-30B



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

Issued November, 1984

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FIGURE 5 AUXILIARY CONTROL ASSEMBLY

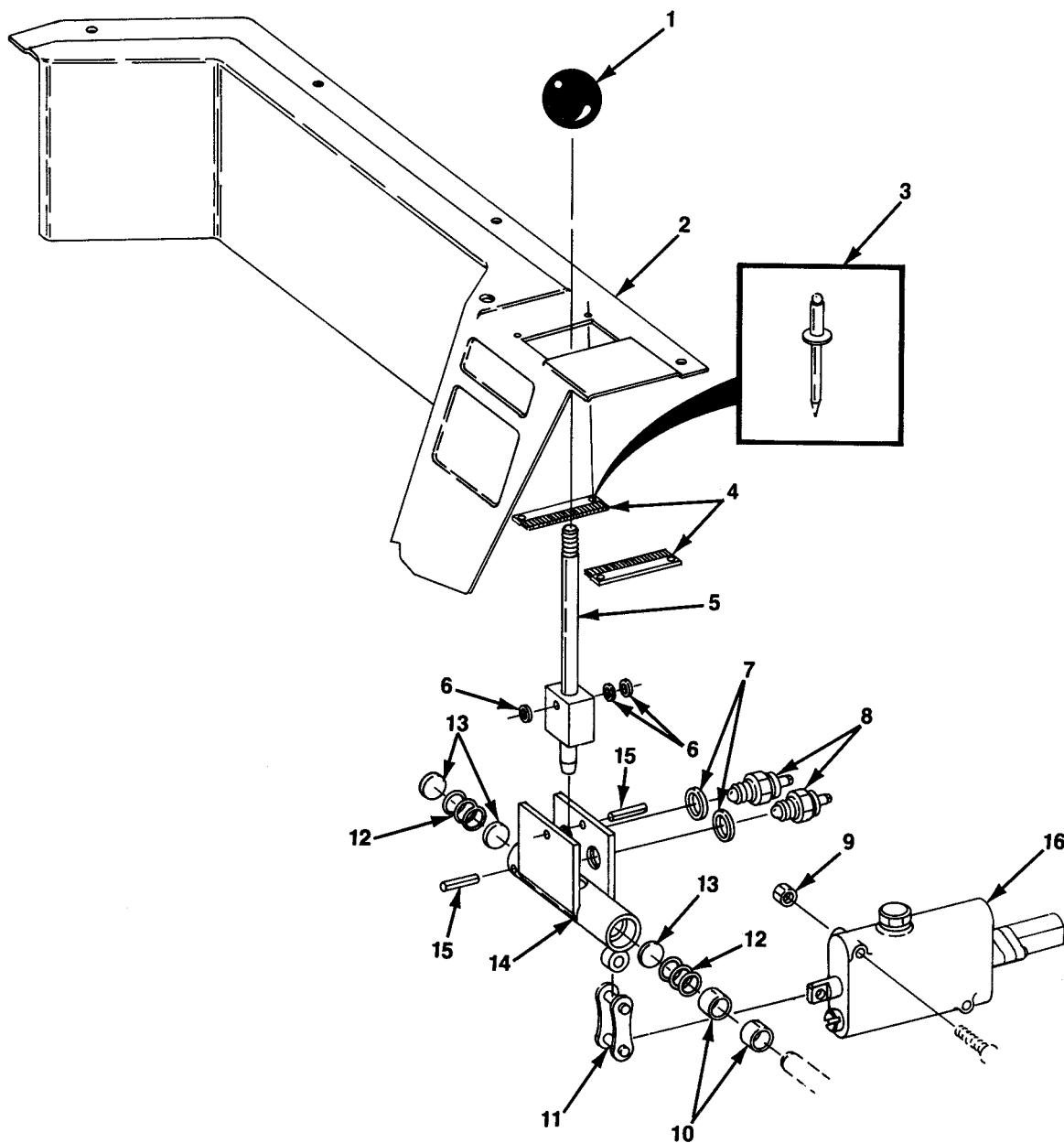


Fig. #	Item #	Part #	Name	# for Assy.
5	1	A-49919-02	Knob	1
5	2	D-40237	Cover, seat panel	1
5	3	NA	Rivet, pop ($\frac{1}{8}$ x $\frac{1}{4}$)	4
5	4	A-40679	Brush	2
5	5	B-40674	Rod	1
5	6	P-11016-01	Washer, flat	3
5	7	A-40273	Spacer	As Req'd
5	8	A-49889	Switch	As Req'd
5	9	P-11261-04	Nut	2
5	10	P-11020-27	Bushing	2
5	11	A-49917	Link	1
5	12	A-49819	Spring	2
5	13	A-40677	Round	3
5	14	B-40671	Tube	1
5	15	P-11073-14	Pin, roll	2
5	16	D-40101	Valve, auxiliary control (see fig. #5)	1

FIGURE 12 AUXILIARY MOTOR ASSEMBLY MKO-4015, (D-40098), MJN-4010, (D-40504)

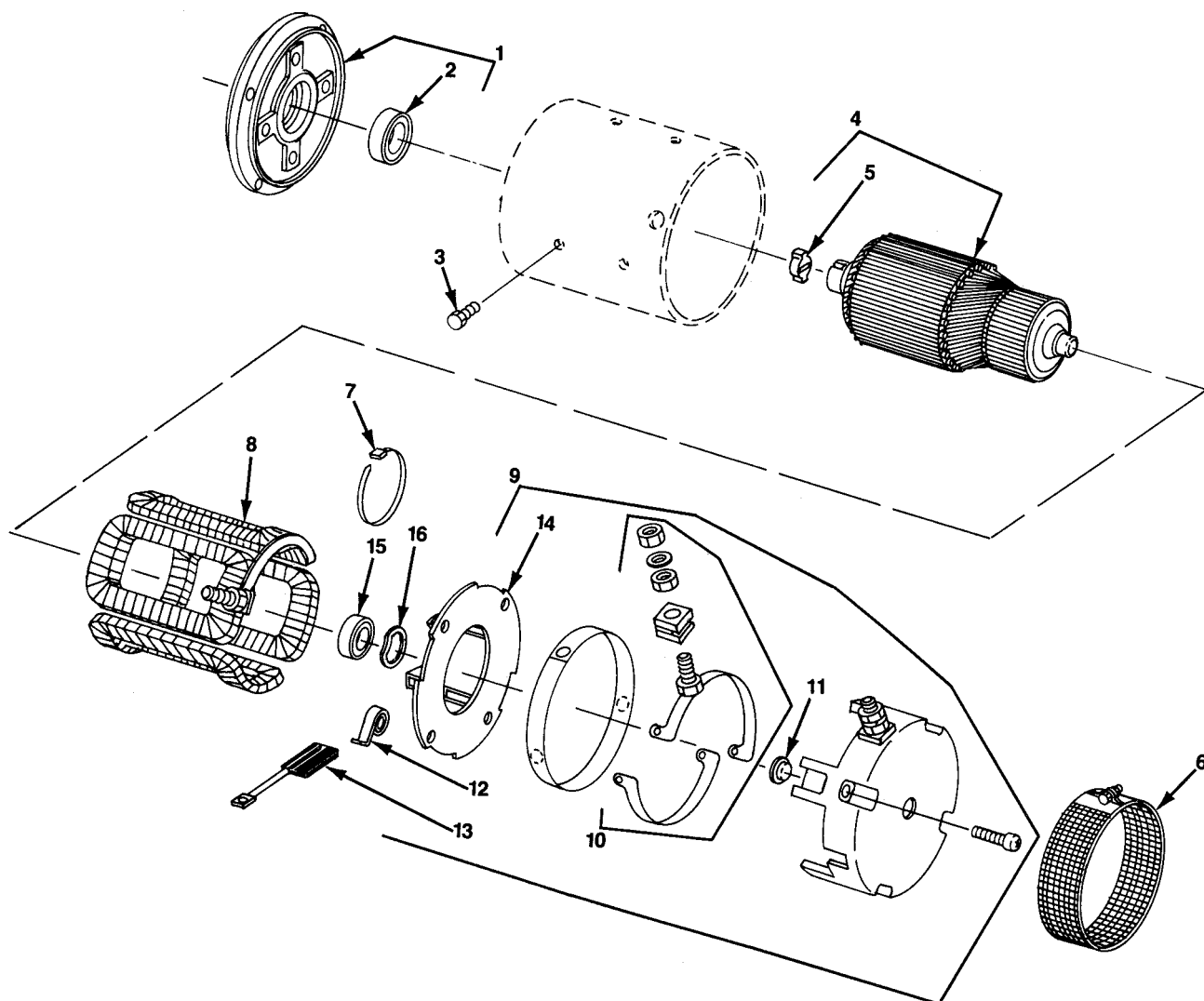


Fig. #	Item #	Part #	Name	# for Assy.	Unit
12	1	EMGQ-1113A	Head assembly, drive	1	
12	2	EX-4607SC	Bearing, sealed	1	
12	3	E90-2612	Package, pole shoe screw	1	
12	4	EMJN-2126DS	Armature and coupling assembly	1	24 volt
12	4	EMKO-2116S	Armature and coupling assembly	1	36 volt
12	5	EMKO-40	Coupling	1	
12	6	EHDB-1104	Band, cover	1	
12	7	EMJB-19S	Package, cable tie	1	
12	8	EMJC-3005BS	Package, field coil	1	24 volt
12	8	EMGQ-3005ES	Package, field coil	1	36 volt
12	9	EMJB-1122S	Head assembly comm.	1	
12	10	E90-2480	Terminal stud package	1	
12	11	EGAL-40C	Cover	1	
12	12	EMGP-18SS	Spring, bush	1	
12	13	E2012BS	Brush, set	1	
12	14	EMGQ-1016A	Plate, brush	1	
12	15	EX-4612	Bearing, sealed	1	
12	16	EX-4079SC	Washer, spring	1	

FIGURE 18 ELECTRICAL SCHEMATIC SYMBOLS

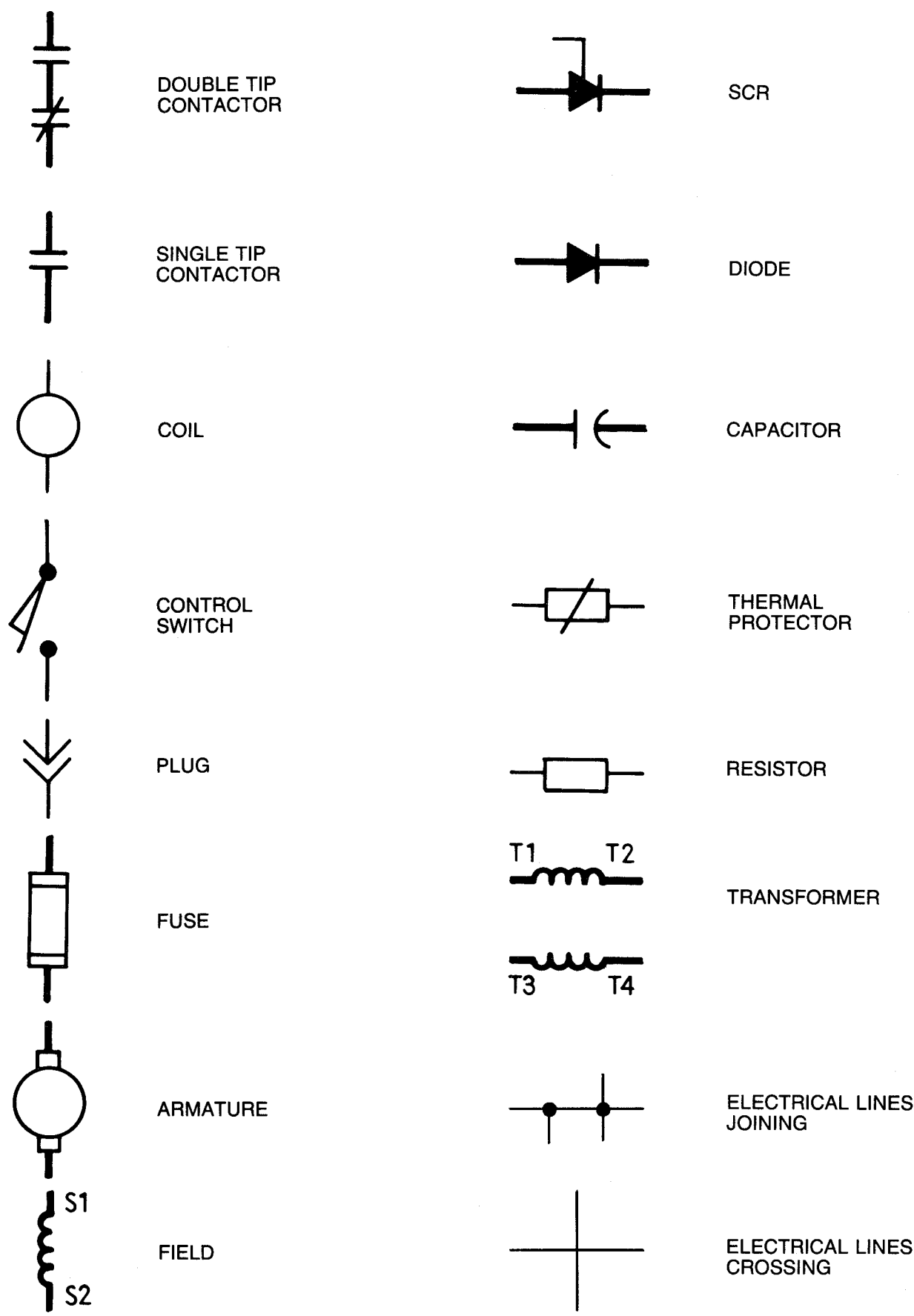


FIGURE 27 SCR AND CONTACTOR PANEL ASSEMBLY

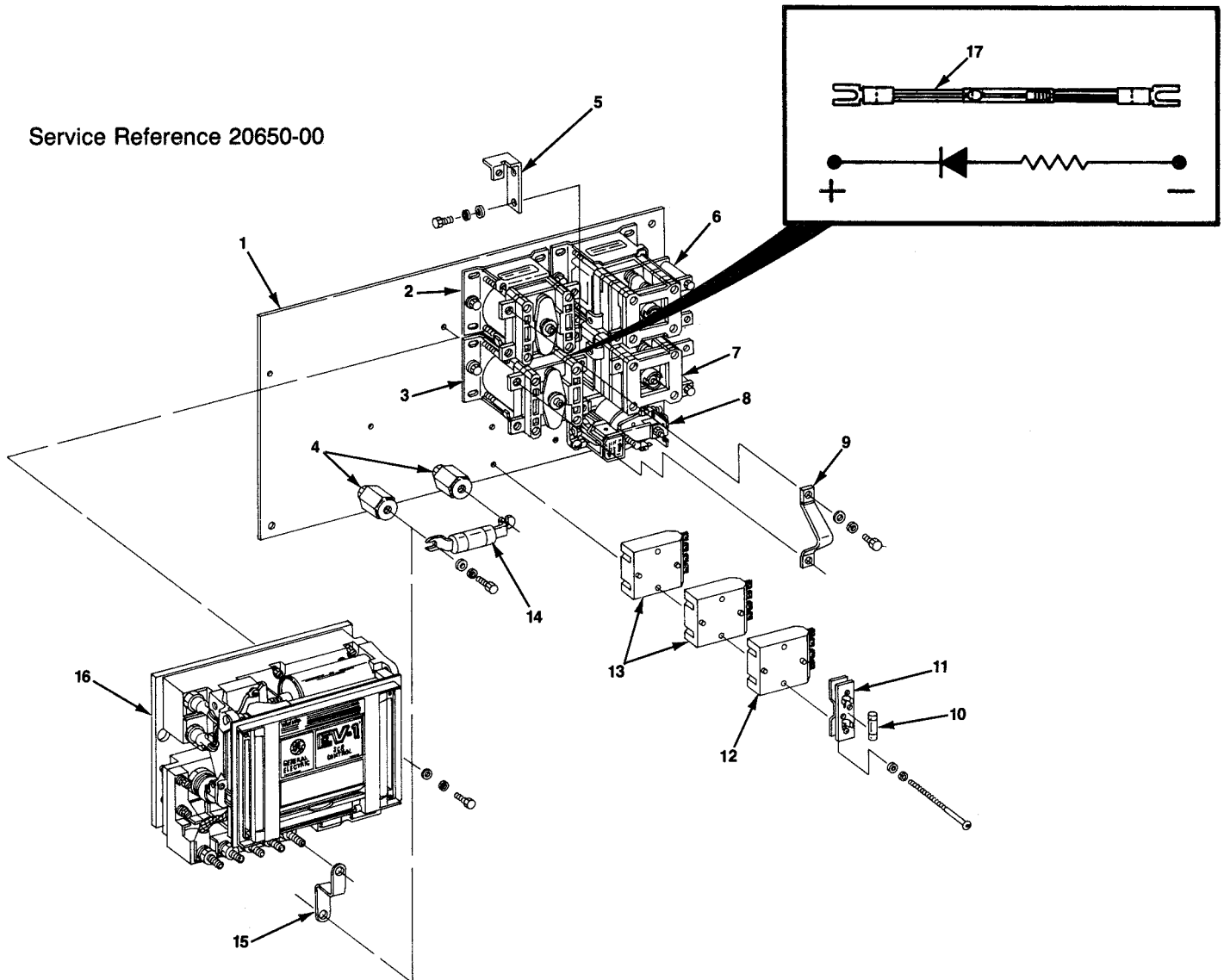


Fig. #	Item #	Part #	Name	# for Assy.	Unit
27	1	QU158C3100SNP1	Base assembly	1	
27	2	QUIC4482CTRA700AH205X0	Contactor (A1) (see fig. #31)	1	24 volt
27	2	QUIC4482CTRA700AH208X0	Contactor (A1) (see fig. #31)	1	36 volt
27	3	QUIC4482CTRA800AH205X0	Contactor (P) (see fig. #31)	1	24 volt
27	3	QUIC4482CTRA800AH208X0	Contactor (P) (see fig. #31)	1	36 volt
27	4	QU205A9343G1	Insulator assembly	2	
27	5	QU232A9090ABP2	Bus	1	
27	6	QUIC4482CTRA701BD305X0	Contactor (F) (see fig. #32)	1	24 volt
27	6	QUIC4482CTRA701BD308X0	Contacto (F) (see fig. #32)	1	36 volt
27	7	QUIC4482CTRA701BE305X0	Contactor (R) (see fig. #32)	1	24 volt
27	7	QUIC4482CTRA701BE308X0	Contactor (R) (see fig. #32)	1	36 volt
27	8	A-27185-02	Contactor (SP) (see fig. #33)	1	24 volt
27	8	A-27185-03	Contacto (SP) (see fig. #33)	1	36 volt
27	9	QU233A21486P6	Shunt	1	
27	10	QUBMCABC-15	Fuse	1	
27	11	QU259A9577P1	Block, fuse control	1	
27	11	QU259A5115P1	Bracket, fuse	1	
27	11	QU259A9577P101	Insulation, fuse	1	
27	12	QUIC3645CPM1HMB1	Diodes, hour meter	1	
27	13	QUIC3645CPM1RDA2	Driver, contactor	2	
27	14	P-25094-2	Fuse (power)	1	
27	15	QU148B6203G74	Bus, bar	1	
27	16	QUIC36450SCR1H3BOXAAD	Control, SCR (see fig. #28)	1	
27	17	QU44A718824G01	Diode and resister assembly	1	
27	*	QU7126R12	Wirina harness (from SCR to contactors)	1	

FIGURE 37 HYDRAULIC SCHEMATIC SYMBOLS

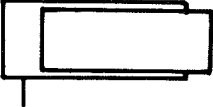
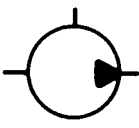
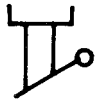
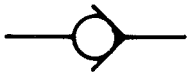
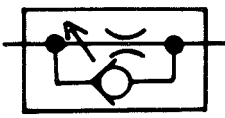
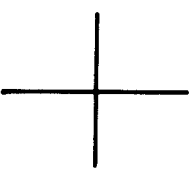
	FILTER
	COMPONENT ENCLOSURE
	CYLINDER
	RESERVOIR (VENTED)
	LINE WITH PRESSER RESTRICTION
	ACCUMULATOR, GAS CHARGED
	MOTOR (ELECTRIC)
	HYDRAULIC PUMP
	HYDRAULIC LINES JOINING
	LEVER ACTUATOR
	CHECK VALVE
	FLOW CONTROL VALVE
	HYDRAULIC LINES CROSSING

FIGURE 47 TUBE AND HOSE ASSEMBLY

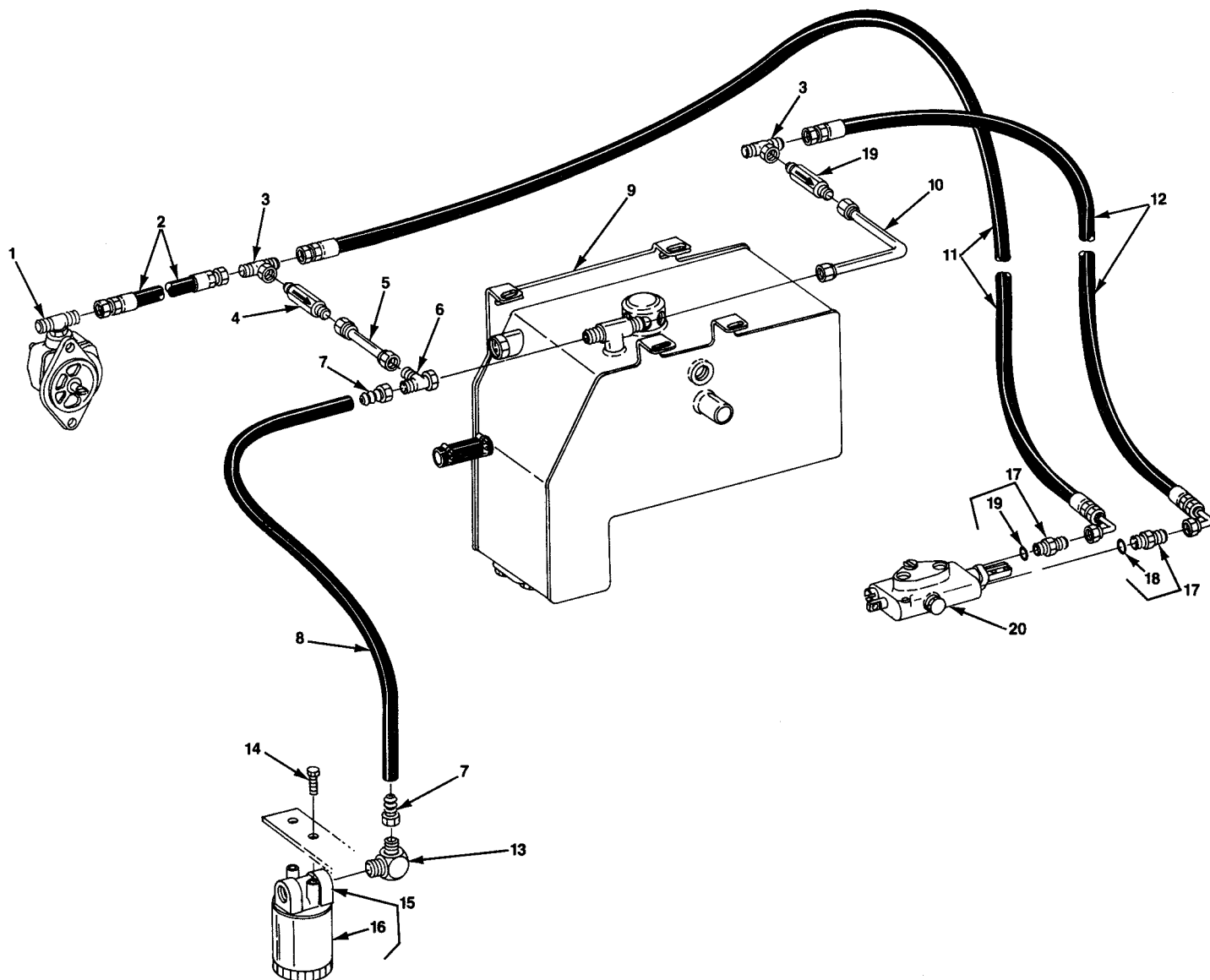


Fig. #	Item #	Part #	Name	# for Assy.
47	1		Pump assembly (see fig. #11)	1
47	2	C-30355-30	Hose assembly	1
47	3	P-14953-02	Tee	2
47	4	A-40551-01	Valve, check	1
47	5	A-40799	Tube assembly	1
47	6	P-25349-03	Tee	1
47	7	A-49870-03	Fitting, hose	2
47	8	52-5069	Hose	As Req'd
47	9		Reservoir assembly (see fig. #39)	1
47	10	A-40798	Tube assembly	1
47	11	C-30355-26	Hose assembly	1
47	12	C-30355-27	Hose assembly	1
47	13	P-14972-03	Adapter	1
47	14	P-11045-03	Screw, cap	2
47	15	B-49956-01	Filter, assembly	1
47	16	K-22001	Element, filter	1
47	17	P-25108-07	Adapter, step up	2
47	18	P-12391-06	O ring	1
47	19	A-40551-00	Valve, check	1
47	20	D-40101	Valve, lift control (see fig. #43)	1

FIGURE 55 3 STAGE MAST HYDRAULIC HOSE ASSEMBLY

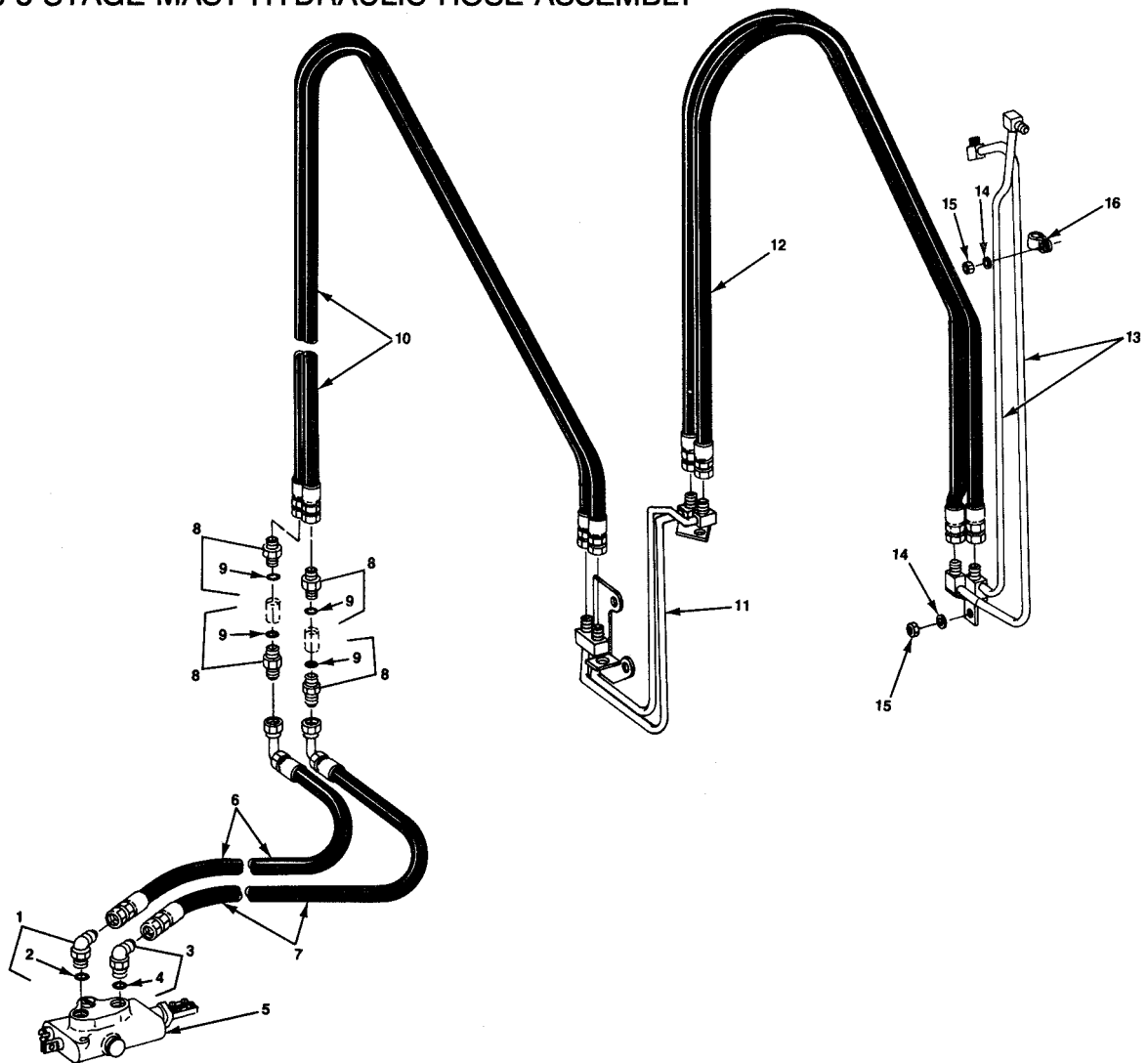


Fig. #	Item #	Part #	Name	# for Assy.	Unit
55	1	P-22012-03	Elbow, 90°	1	
55	2	P-12391-05	O ring	1	
55	3	A-14844-03	Elbow, 45°	1	
55	4	P-12391-05	O ring	1	
55	5	D-40101	Valve, auxiliary (see fig. #48)	1	
55	6	B-30355-32	Hose assembly	1	
55	7	B-30355-33	Hose assembly	1	
55	8	P-25108-06	Adapter, straight	4	
55	9	P-12391-05	O ring	1	
55	10	C-40455-01	Hose assembly	1	89/180
55	10	C-40455-02	Hose assembly	1	95/198
55	10	C-40455-20	Hose assembly	1	95/210
55	10	C-40455-03	Hose assembly	1	107/226
55	10	C-40455-04	Hose assembly	1	111/240
55	10	C-40455-05	Hose assembly	1	119/258
55	11	D-40716	Manifold	1	
55	12	C-40455-11	Hose assembly	1	89/180
55	12	C-40455-12	Hose assembly	1	95/198
55	12	C-40455-21	Hose assembly	1	95/210
55	12	C-40455-13	Hose assembly	1	107/226
55	12	C-40455-14	Hose assembly	1	111/240
55	12	C-40455-15	Hose assembly	1	119/258
55	13	D-40411	Tube assembly	1	
55	14	P-11009-06	Lockwasher	3	
55	15	P-11261-06	Nut	3	
55	16	P-15677-08	Clamp	1	

FIGURE 66 DEEP REACH MANIFOLD VALVE ASSEMBLY (C-40646)

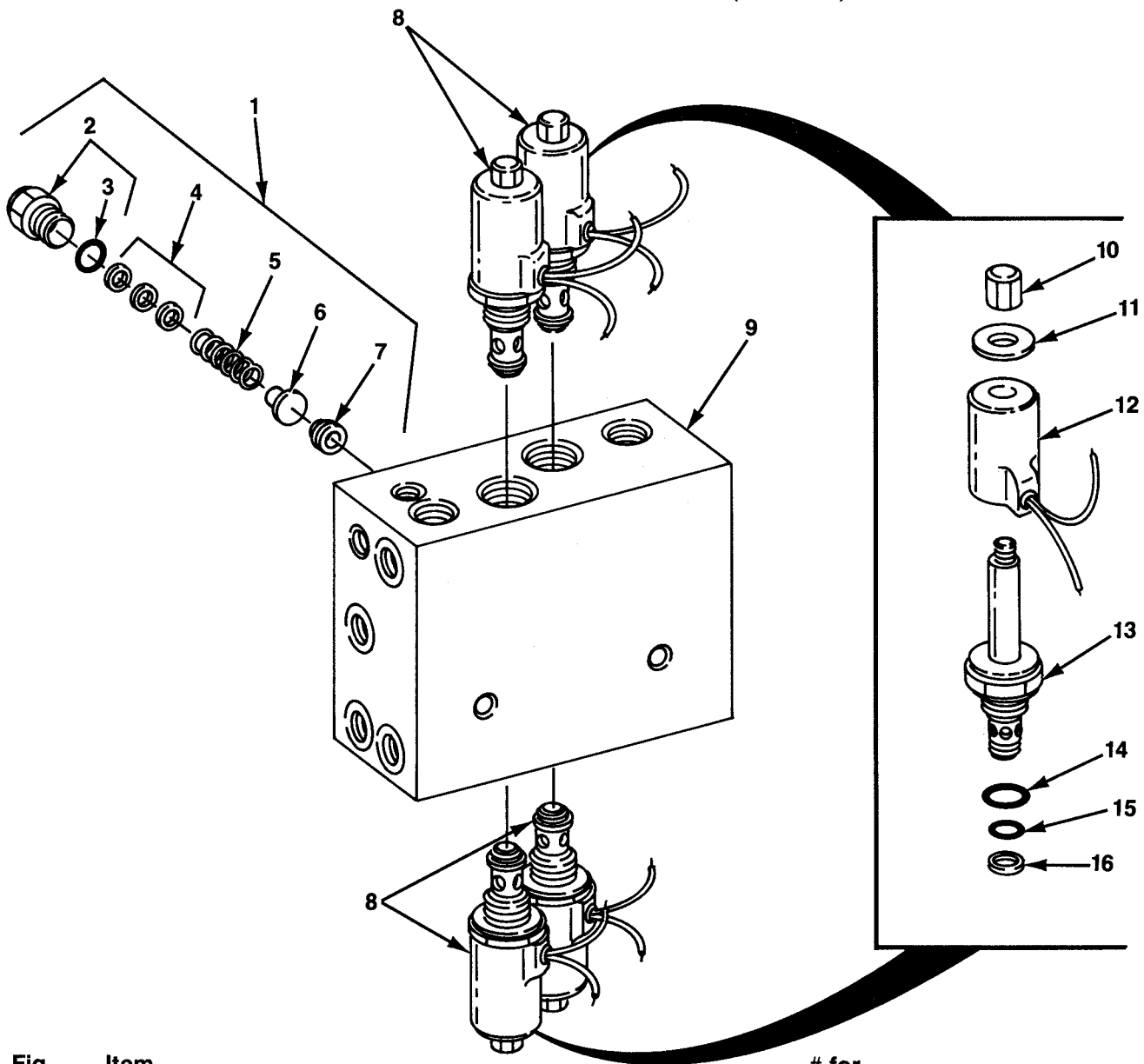


Fig. #	Item #	Part #	Name	# for Assy.	Unit
66	1	A-40621	Valve, relief	1	
66	2	QY16227-021	Plug, relief	1	
66	3	NSS	O ring	1	
66	4	QY16048-22	Washer .015	As Req'd	
66	4	QY16048-35	Washer .010	As Req'd	
66	4	QY16048-65	Washer .034	As Req'd	
66	5	QY32015-23	Spring	1	
66	6	QY32015-36	Poppet	1	
66	7	NA	Seat	1	
66	8	B-40605	Valve, solenoid	4	24 volt
66	8	B-40607	Valve, solenoid	4	36 volt
66	9	D-40584	Block, valve	1	
66	10	VJ4021261	Nut	1	
66	11	VJ4020900	Washer	1	
66	12	VJ6007328	Coil	1	24 volt
66	12	VJ6008410	Coil	1	36 volt
66	13	NSS	Cartridge	1	
66	14K	NSS	O ring	1	
66	15K	NSS	O ring	1	
66	16K	NSS	Ring, back-up	1	
66	K	VJ6011020	Kit, seal (contains parts indicated by letter 1'K'')		

FIGURE 77 SINGLE REACH TILT FRONT FRAME ASSEMBLY

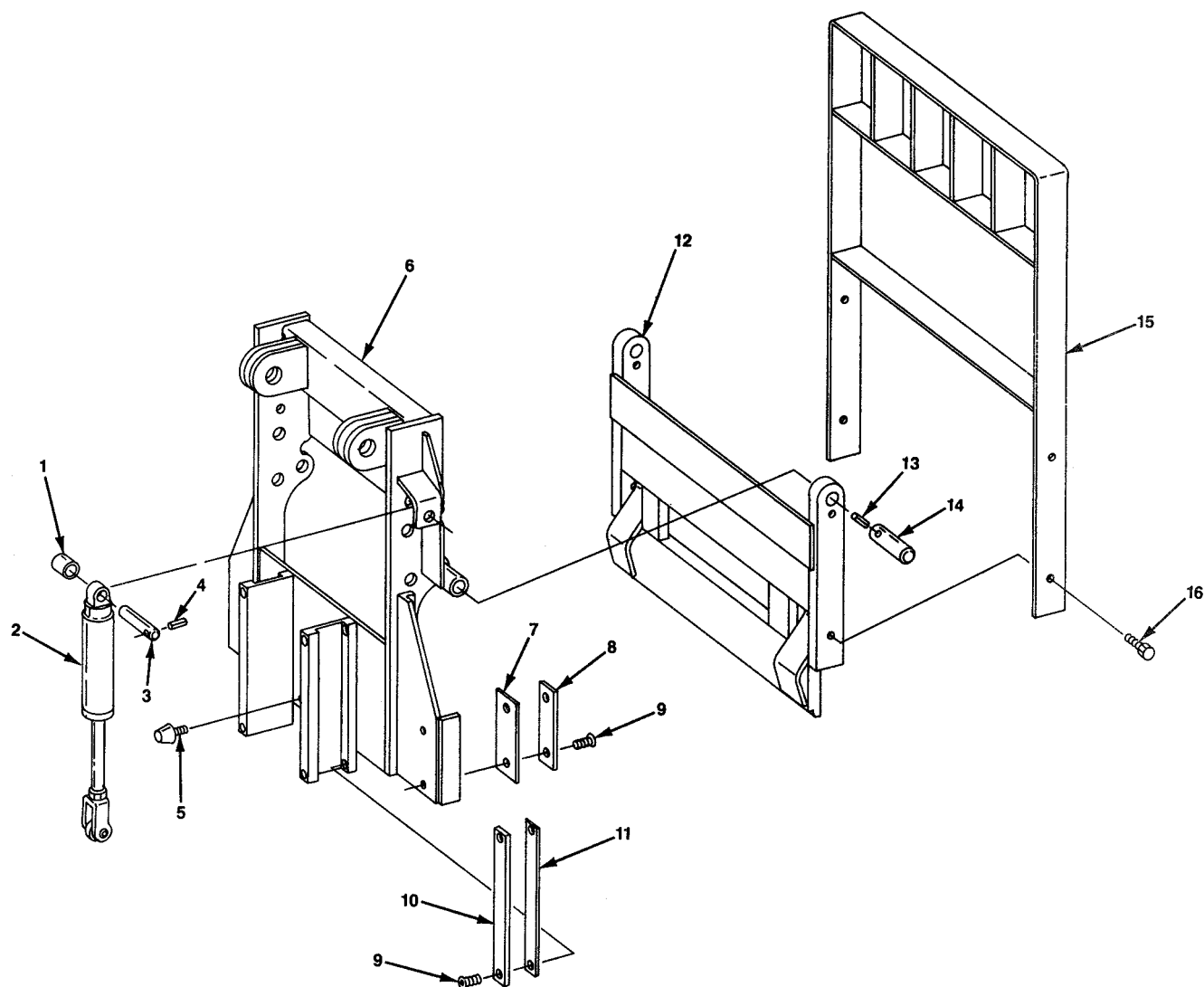


Fig. #	Item #	Part #	Name	# for Assy.
77	1	A-40409	Spacer	2
77	2	D-40497-02	Cylinder, tilt (see fig. #58)	2
77	3	A-13813-30	Pin	2
77	4	P-11073-04	Pin, roll	2
77	5	A-49785-00	Bumper	2
77	6	D-40641	Frame, front	1
77	7	A-40441	Shim, .060	As Req'd
77	8	A-40593	Bar, wear	2
77	9	P-11852-14	Screw, cap	8
77	10	B-40376	Bar, wear	2
77	11	B-40377-01	Shim, .0148	As Req'd
77	12	D-40641	Frame, fork	1
77	13	P-11073-23	Pin, roll	2
77	14	B-40382	Rod, pivot	2
77	15	D-40447-01	Rest,load back	1
77	16	P-14994-06	Screw, cap	4

Fig. #	Item #	Part #	Name	# for Assy.	Unit
86	1	D-40114	Door	1	
86	2	A-20904-01	Bumper	2	
86	3	B-40123	Hinge	2	
86	4	P-11429-04	Pin, cotter	1	
86	5	P-11016-03	Washer	1	
86	6	A-49914	Screw, machine	1	
86	7	P-14992-10	Screw, cap	4	
86	7	A-49761-11	Screw, cap	2	4" high outrigger
86	8	P-14992-13	Screw, cap	4	
86	8	A-49761-11	Screw, cap	2	4" high outrigger
86	9	C-40152-04	Retainer, right battery	1	14½" battery
86	9	C-40152-02	Retainer, right battery	1	16½" battery
86	9	C-40152-03	Retainer, left battery	1	14½" battery
86	9	C-40152-01	Retainer, left battery	1	16½" battery
86	10	A-25203-07	Shaft	4	14½" battery
86	10	A-25203-06	Shaft	4	16½" battery
86	11	P-25189-02	Bearing	8	
86	12	A-25204-03	Roller	4	14½" battery
86	12	A-25204-06	Roller	4	16½" battery
86	13	B-40839	Articulating load wheels (see fig. #89)	2	
86	13	B-40866	4 inch high outriggers articulating load wheel assembly (see fig. #89)	2	
86	13	B-40839	Articulating load wheels (see fig. #89)	2	
86	14	B-40837	Left single load wheel assembly (see fig. #88)	1	
86	14	B-40838	Right single load wheel assembly (see fig. #88)	1	
86	15	A-40835	Caster assembly (see fig. #75)	1	
86	16	P-11261-12	Nut	4	
86	17		2 stage frame, main		14½" battery
86	17	D-40751-01	Frame, standard	1	31 inch
86	17	D-40751-02	Frame, standard	1	33 inch
86	17	D-40751-03	Frame, standard	37 inch	
86	17	D-40751-04	Frame, standard	41 inch	
86	17	D-40751-05	Frame, standard	1	43 inch
86	17	D-40751-06	Frame, standard	1	45 inch
86	17	D-40751-07	Frame, standard	1	49 inch
86	17	D-40751-08	Frame, reach w/tilt	1	31 inch
86	17	D-40751-09	Frame, reach w/tilt	1	33 inch
86	17	D-40751-10	Frame, reach w/tilt	1	37 inch
86	17	D-40751-11	Frame, reach w/tilt	1	41 inch
86	17	D-40751-12	Frame, reach w/tilt	43 inch	
86	17	D-40751-13	Frame, reach w/tilt	45 inch	
86	17	D-40751-14	Frame, reach w/tilt	1	49 inch
86	17		2 stage frame, main		16½" battery
86	17	D-40751-15	Frame, standard	1	31 inch
86	17	D-40751-16	Frame, standard	1	33 inch
86	17	D-40751-17	Frame, standard	1	37 inch
86	17	D-40751-18	Frame, standard	1	41 inch
86	17	D-40751-19	Frame, standard	1	43 inch
86	17	D-40751-20	Frame, standard	1	45 inch
86	17	D-40751-21	Frame, standard	1	49 inch
86	17	D-40751-22	Frame, reach w/tilt	1	31 inch

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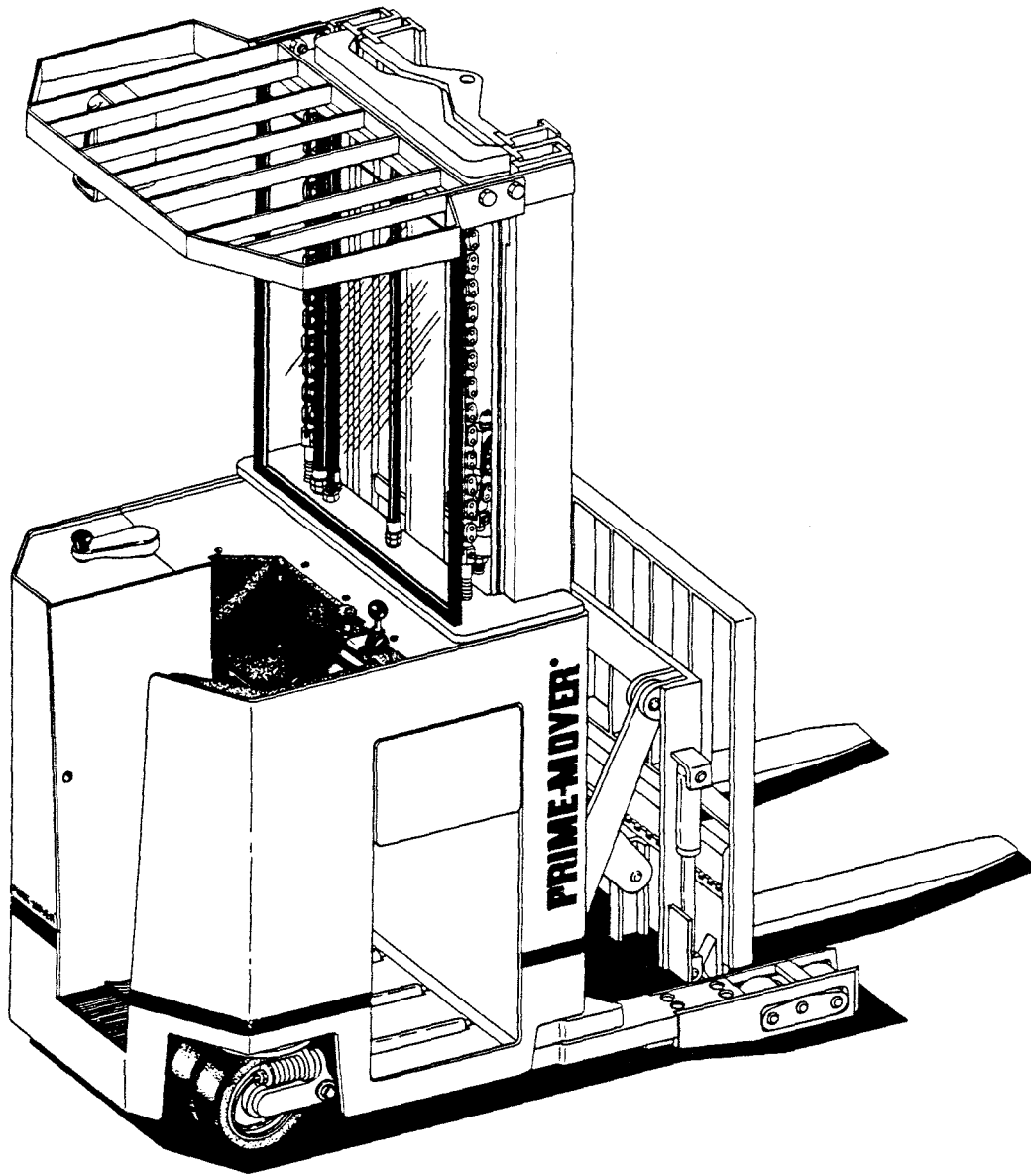
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RR-30B Parts Manual

RR-30B REACH TRUCK

RR-30B



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FIGURE 5 AUXILIARY CONTROL ASSEMBLY

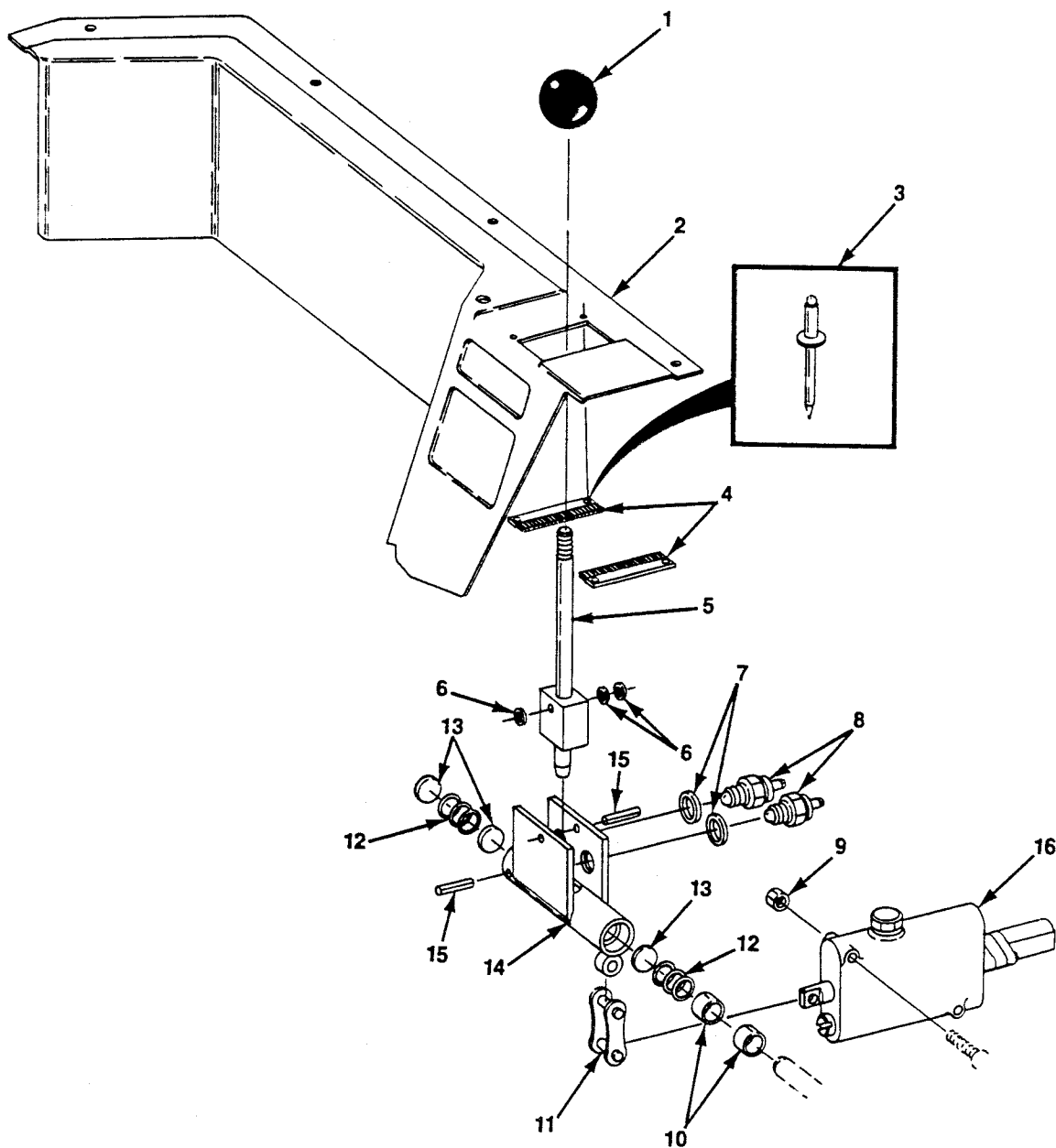


Fig. #	Item #	Part #	Name	# for Assy.
5	1	A-49919-02	Knob	1
5	2	D-40237	Cover, seat panel	1
5	3	NA	Rivet, pop ($\frac{1}{8}$ x $\frac{1}{4}$)	4
5	4	A-40679	Brush	2
5	5	B-40674	Rod	1
5	6	P-11016-01	Washer, flat	3
5	7	A-40273	Spacer	As Req'd
5	8	A-49889	Switch	As Req'd
5	9	P-11261-04	Nut	2
5	10	P-11020-27	Bushing	2
5	11	A-49917	Link	1
5	12	A-49819	Spring	2
5	13	A-40677	Round	3
5	14	B-40671	Tube	1
5	15	P-11073-14	Pin, roll	2
5	16	D-40101	Valve, auxiliary control (see fig. #5)	1

FIGURE 12 AUXILIARY MOTOR ASSEMBLY MKO-4015, (D-40098), MJN-4010, (D-40504)

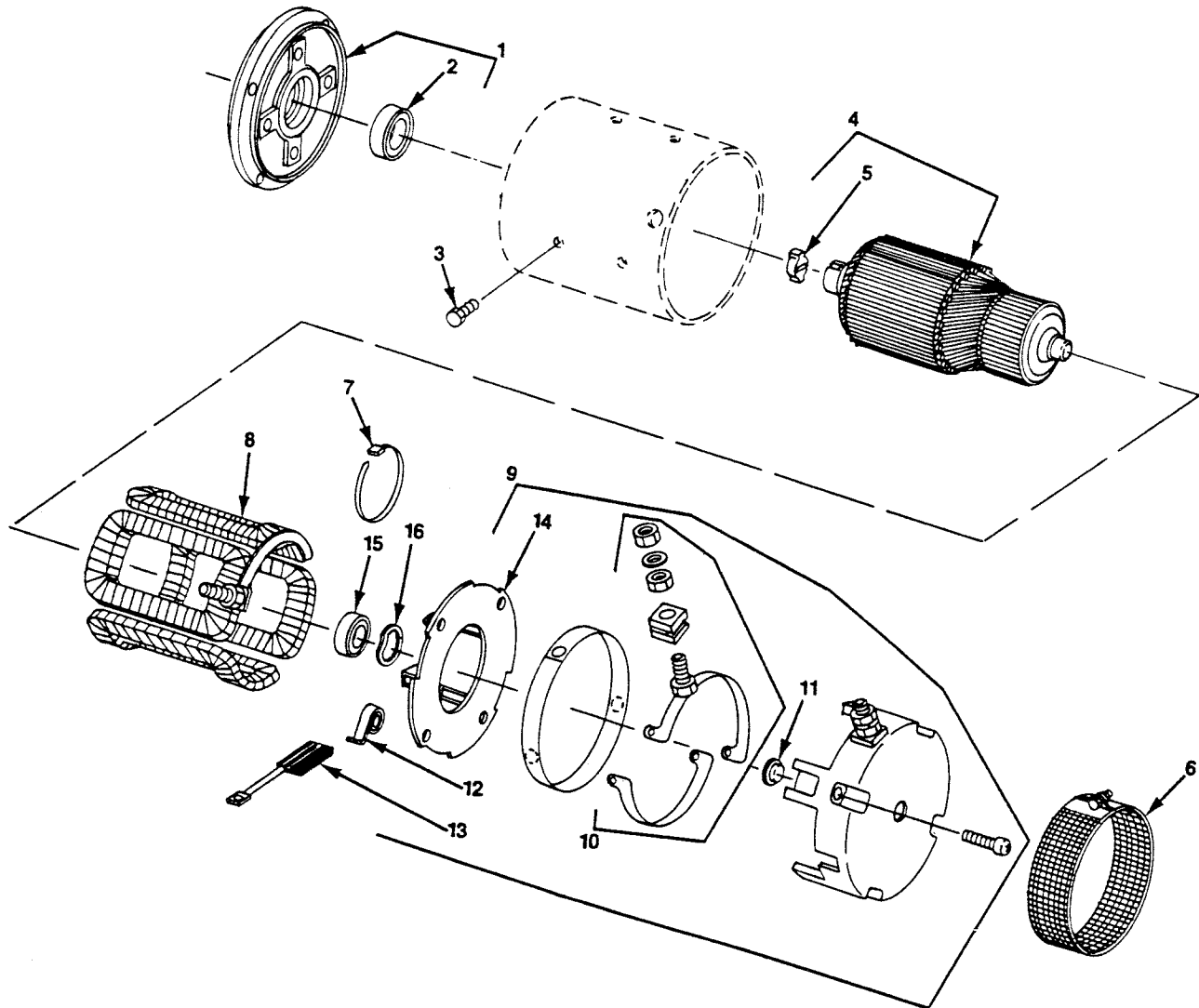


Fig. #	Item #	PART #	NAME	# for Assy.	Unit
12	1	EMGQ-1113A	Head assembly, drive	1	
12	2	EX-4607SC	Bearing, sealed	1	
12	3	E90-2612	Package, pole shoe screw	1	
12	4	EMJN-2126DS	Armature and coupling assembly	1	24 volt
12	4	EMKO-2116S	Armature and coupling assembly	1	36 volt
12	5	EMKO-40	Coupling	1	
12	6	EHDB-1104	Band, cover	1	
12	7	EMJB-19S	Package, cable tie	1	
12	8	EMJC-3005BS	Package, field coil	1	24 volt
12	8	EMGQ-3005ES	Package, field coil	1	36 volt
12	9	EMJB-1122S	Head assembly comm.	1	
12	10	E90-2480	Terminal stud package	1	
12	11	EGAL-40C	Cover	1	
12	12	EMGP-18SS	Spring, bush	1	
12	13	EMGQ-2012BS	Brush, set	1	
12	14	EMGQ-1016A	Plate, brush	1	
12	15	EX-4612	Bearing, sealed	1	
12	16	EX-4079SC	Washer, spring	1	

FIGURE 18 ELECTRICAL SCHEMATIC SYMBOLS

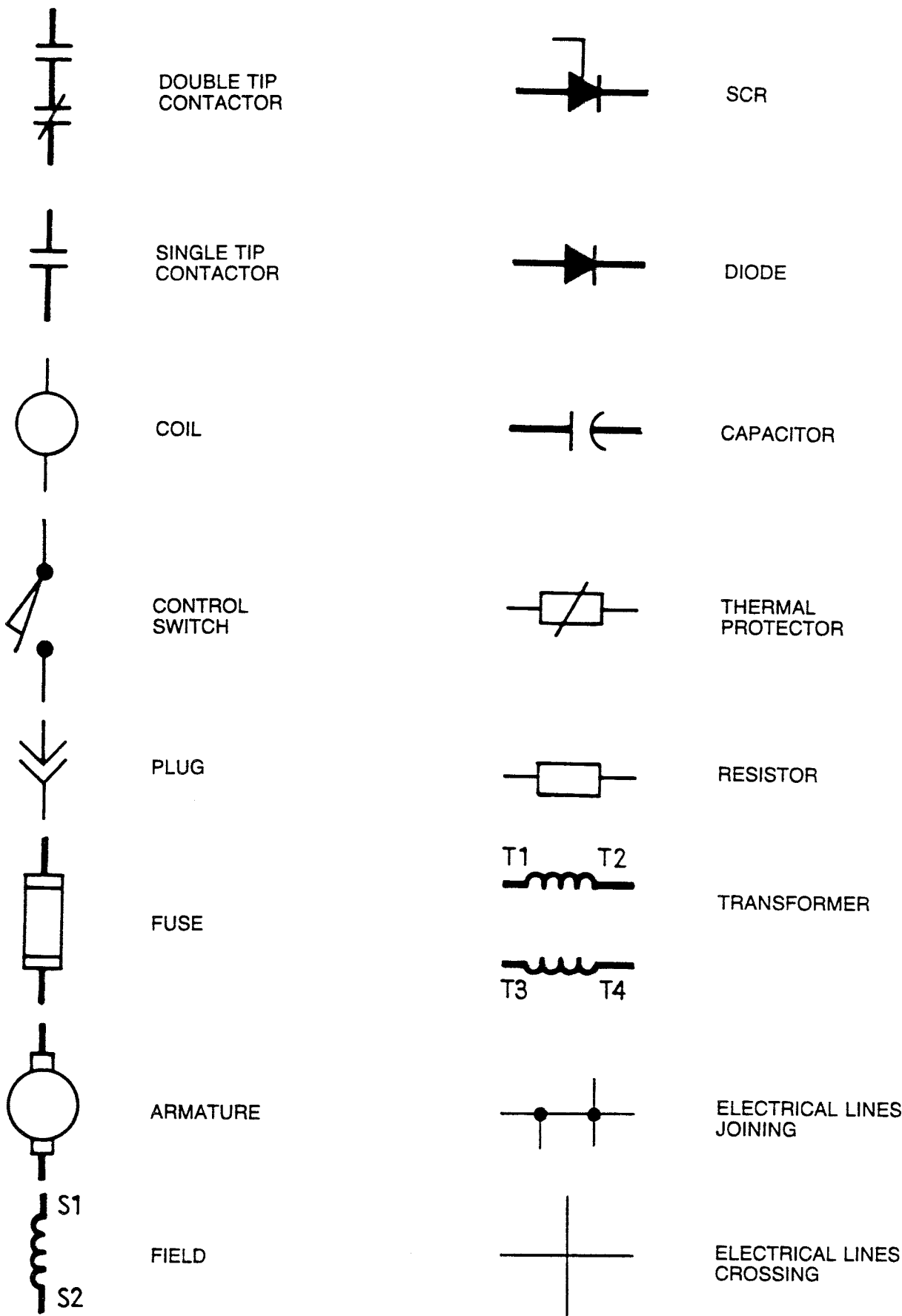


FIGURE 27 SCR AND CONTACTOR PANEL ASSEMBLY

Service Reference 20650-00

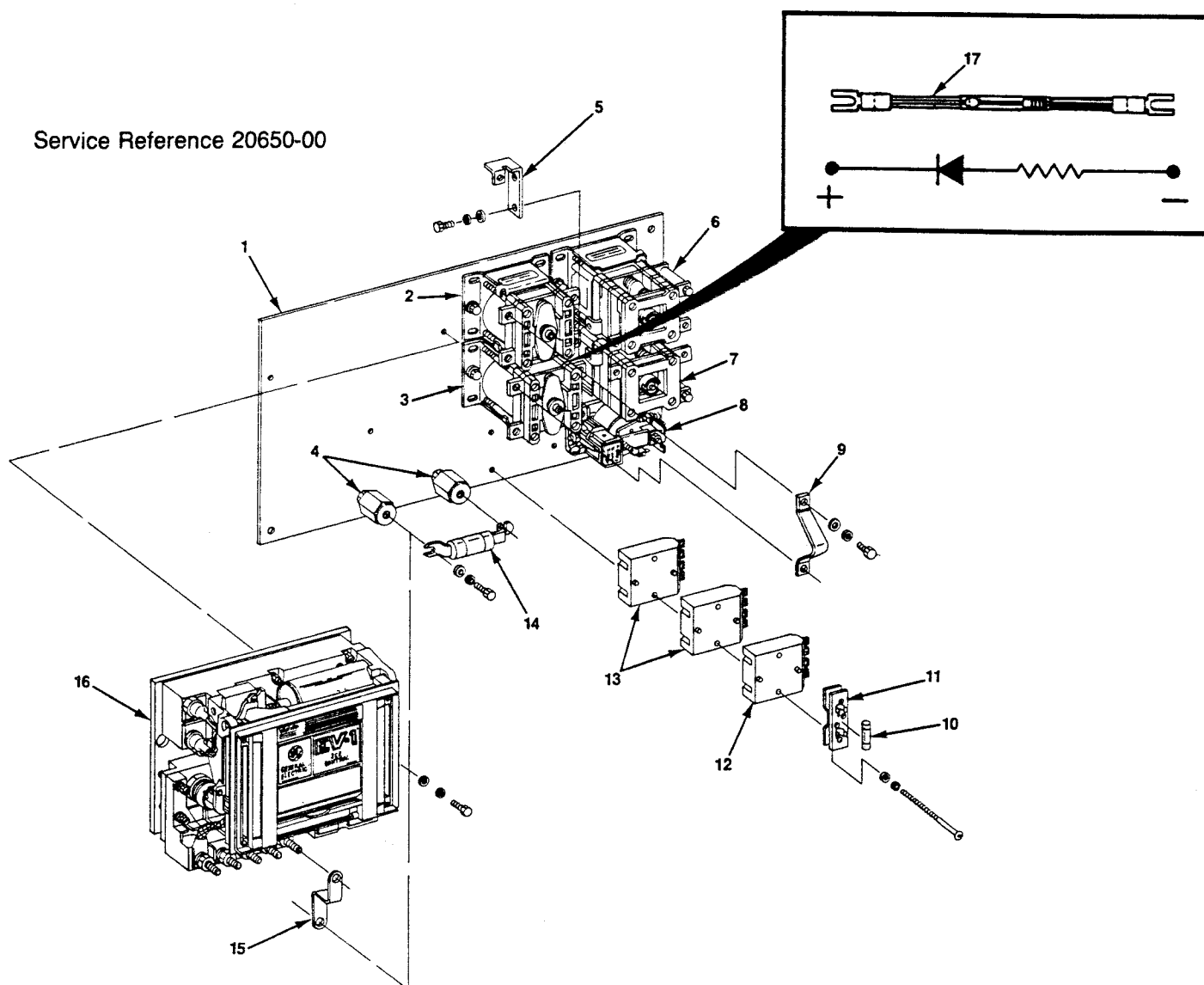
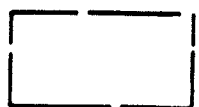


Fig. #	Item #	Part #	Name	# for Assy.	Unit
27	1	QU158C3100SNP1	Base assembly	1	
27	2	QUIC4482CTRA700AH205X0	Contactor (A1) (see fig. #31)	1	24 volt
27	2	QUIC4482CTRA700AH208X0	Contactor (A1) (see fig. #31)	1	36 volt
27	3	QUIC4482CTRA800AH205X0	Contactor (P) (see fig. #31)	1	24 volt
27	3	QUIC4482CTRA800AH208X0	Contactor (P) (see fig. #31)	1	36 volt
27	4	QU205A9343G1	Insulator assembly	2	
27	5	QU232A9090ABP2	Bus	1	
27	6	QUIC4482CTRA701BD305X0	Contactor (F) (see fig. #32)	1	24 volt
27	6	QUIC4482CTRA701BD308X0	Contactor (F) (see fig. #32)	1	36 volt
27	7	QUIC4482CTRA701BE305X0	Contactor (R) (see fig. #32)	1	24 volt
27	7	QUIC4482CTRA701BE308X0	Contactor (R) (see fig. #32)	1	36 volt
27	8	A-27185-02	Contactor (SP) (see fig. #33)	1	24 volt
27	8	A-27185-03	Contactor (SP) (see fig. #33)	1	36 volt
27	9	QU233A21486P6	Shunt	1	
27	10	QUBMCABC-15	Fuse	1	
27	11	QU259A9577P1	Block, fuse control	1	
27	11	QU259A5115P1	Bracket, fuse	1	
27	11	QU259A9577P101	Insulation, fuse	1	
27	12	QUIC3645CPM1HMB1	Diodes, hour meter	1	
27	13	QUIC3645CPM1RDA2	Driver, contactor	2	
27	14	P-25094-2	Fuse (power)	1	
27	15	QU148B6203G74	Bus, bar	1	
27	16	QUIC36450SCR1H3BOXAAD	Control, SCR (see fig. #28)	1	
27	17	QU44A718824G01	Diode and resistor assembly	1	
27	*	QU7126R12	Wiring harness (from SCR to contactors)	1	RR30BP-41

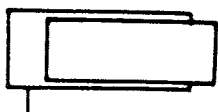
FIGURE 37 HYDRAULIC SCHEMATIC SYMBOLS



FILTER



COMPONENT ENCLOSURE



CYLINDER



RESERVOIR (VENTED)



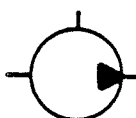
LINE WITH PRESSER RESTRICTION



ACCUMULATOR, GAS CHARGED



MOTOR (ELECTRIC)



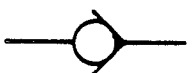
HYDRAULIC PUMP



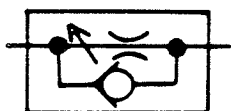
HYDRAULIC LINES JOINING



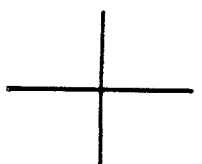
LEVER ACTUATOR



CHECK VALVE



FLOW CONTROL VALVE



HYDRAULIC LINES CROSSING

FIGURE 47 TUBE AND HOSE ASSEMBLY

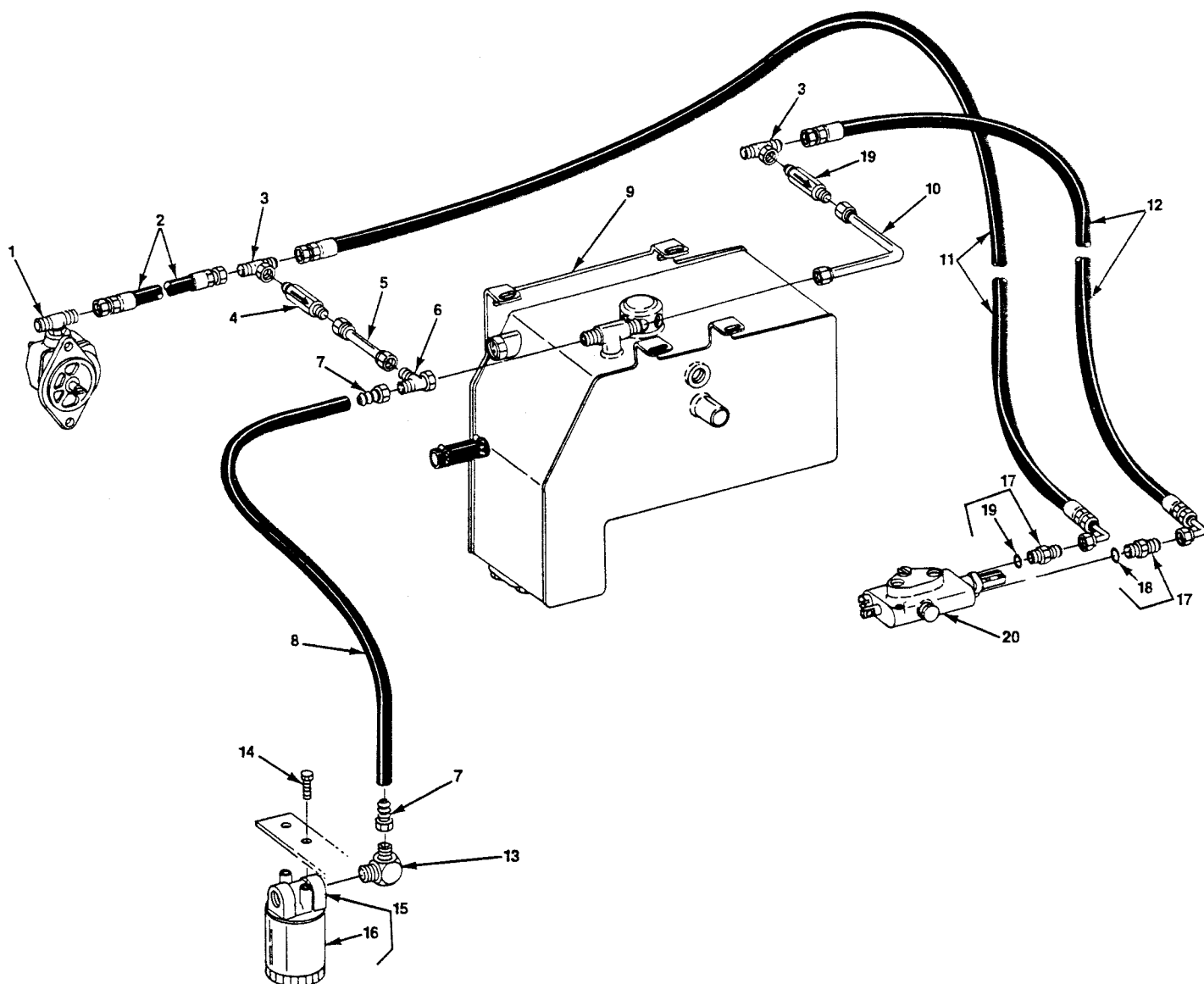


Fig. #	Item #	Part #	Name	# for Assy.
47	1		Pump assembly (see fig. #11)	1
47	2	C-30355-30	Hose assembly	1
47	3	P-14953-02	Tee	2
47	4	A-40551-01	Valve, check	1
47	5	A-40799	Tube assembly	1
47	6	P-25349-03	Tee	1
47	7	A-49870-03	Fitting, hose	2
47	8	52-5069	Hose	As Req'd
47	9		Reservoir assembly (see fig. #39)	1
47	10	A-40798	Tube assembly	1
47	11	C-30355-26	Hose assembly	1
47	12	C-30355-27	Hose assembly	1
47	13	P-14972-03	Adapter	1
47	14	P-11045-03	Screw, cap	2
47	15	B-49956-01	Filter, assembly	1
47	16	K-22001	Element, filter	1
47	17	P-25108-07	Adapter, step up	2
47	18	P-12391-06	O ring	1
47	19	A-40551-00	Valve, check	1
47	20	D-40101	Valve, lift control (see fig. #43)	1

FIGURE 55 3 STAGE MAST HYDRAULIC HOSE ASSEMBLY

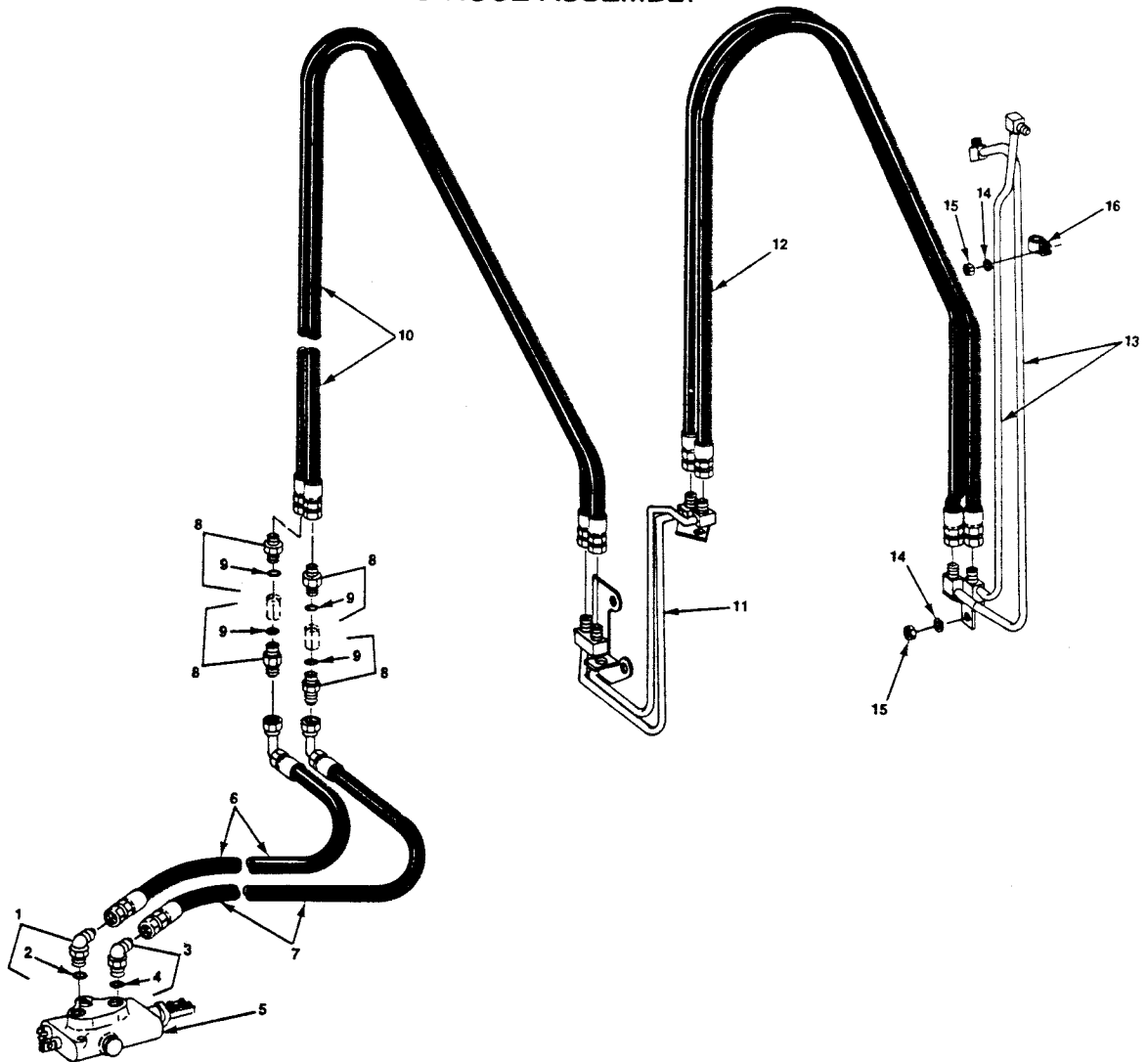
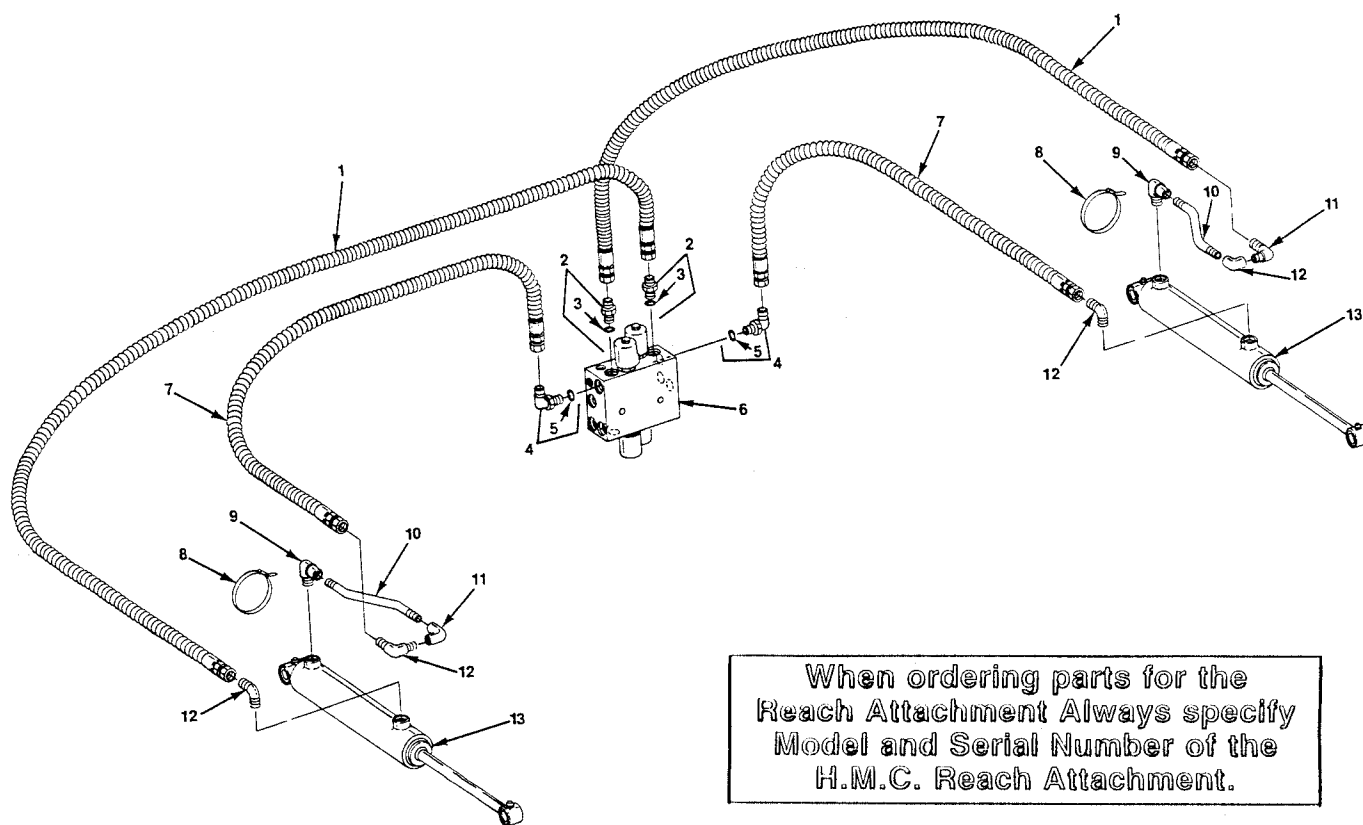


Fig. #	Item #	Part #	Name	# for Assy.	Unit
55	1	P-22012-03	Elbow, 90°	1	
55	2	P-12391-05	O ring	1	
55	3	A-14844-03	Elbow, 45°	1	
55	4	P-12391-05	O ring	1	
55	5	D-40101	Valve, auxiliary (see fig. #48)	1	
55	6	B-30355-32	Hose assembly	1	
55	7	B-30355-33	Hose assembly	1	
55	8	P-25108-06	Adapter, straight	4	
55	9	P-12391-05	O ring	1	
55	10	C-40455-01	Hose assembly	1	89/180
55	10	C-40455-02	Hose assembly	1	95/198
55	10	C-40455-20	Hose assembly	1	95/210
55	10	C-40455-03	Hose assembly	1	107/226
55	10	C-40455-04	Hose assembly	1	111/240
55	10	C-40455-05	Hose assembly	1	119/258
55	11	D-40716	Manifold	1	
55	12	C-40455-11	Hose assembly	1	89/180
55	12	C-40455-12	Hose assembly	1	95/198
55	12	C-40455-21	Hose assembly	1	95/210
55	12	C-40455-13	Hose assembly	1	107/226
55	12	C-40455-14	Hose assembly	1	111/240
55	12	C-40455-15	Hose assembly	1	119/258
55	13	D-40411	Tube assembly	1	
55	14	P-11009-06	Lockwasher	3	
55	15	P-11261-06	Nut	3	
55	16	P-15677-08	Clamp	1	

FIGURE 65 DEEP REACH REACH CYLINDER AND HOSE ASSEMBLY



When ordering parts for the Reach Attachment Always specify Model and Serial Number of the H.M.C. Reach Attachment.

Fig. #	Item #	Part #	Name	# for Assy.	Unit
65	1	QS2327-05-06-05-34-SG	Hose assembly	2	
65	2	P-25108-06	Adapter	2	
65	3	P-12391-05	O ring	2	
65	4	P-22012-02	Elbow, 90°	2	
65	5	P-12391-05	O ring	2	
65	6	A-40646-02	Valve assembly (see fig. #66)	1	24 volt
65	6	A-40646-01	Valve assembly (see fig. #66)	1	36 volt
65	7	QSDF2327-05-06-05-32-SG	Hose assembly	2	
65	8	P-25332	Tie, wire	As Req'd	
65	9	QS740017	Elbow, street	2	
65	10	QS730321	Nipple, offset	2	
65	11	QS740015	Elbow, 90°	2	
65	12	QS740020	Elbow, 90°	4	
65	13		Cylinder assembly (see fig. #67)	2	

FIGURE 75 SINGLE REACH ASSEMBLY

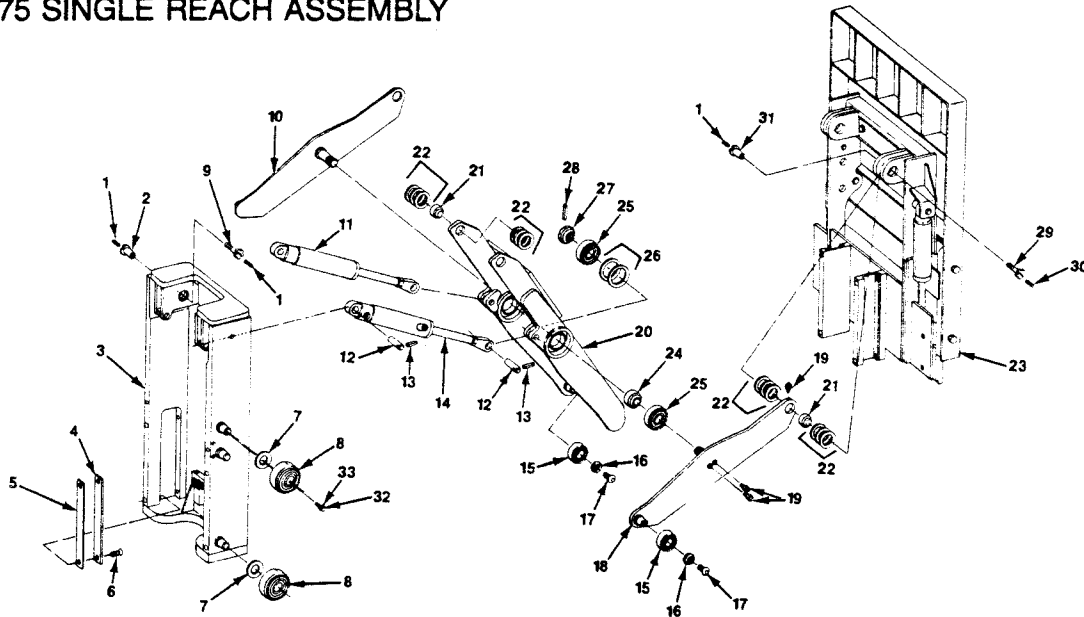


Fig. #	Item #	Part #	Name	# for Assy.	Unit
75	1	P-11073-35	Pin, roll	6	
75	2	B-40357-01	Pin	2	
75	3	D-40335	Frame, rear standard	1	
75	3	D-40589	Frame, rear 20" bearing clearance	1	95/210
75	4	B-40376	Bar, wear	2	
75	5	B-40377-01	Shim	As Req'd	
75	6	P-11852-03	Screw, flat head	4	
75	7	P-11857-05	Washer, shim	As Req'd	
75	7	P-11857-10	Washer, shim	As Req'd	95/210
75	8	P-21089-02	Bearing	6	
75	8	A-49832	Bearing	6	95/210
75	9	B-40358-02	Screw, special	2	
75	10	D-40355-02	Arm, outer left hand	1	
75	11	D-40497-01	Cylinder, reach left hand (see fig. #58)	1	
75	12	A-13813-30	Pin	4	
75	13	P-11073-04	Pin, roll	4	
75	14	D-40497-04	Cylinder, reach right hand (see fig. #58)	1	
75	15	B-49940	Bearing, roller	4	
75	16	A-40354	Cap	4	
75	17	P-11852-21	Screw, flat head	4	
75	18	D-40355-01	Arm, outer right hand	1	
75	19	P-11160-11	Fitting, grease	10	
75	20	D-40345	Arm, inner	1	
75	21	A-40103-02	Bearing	4	
75	22	A-49925-04	Shim, .187	As Req'd	
75	22	A-49925-05	Shim, .125	As Req'd	
75	22	A-49925-06	Shim, .062	As Req'd	
75	23		Standard reach front frame assembly (see fig. #76)	1	
75	23		Tilt reach front assembly (see fig. #77)	1	
75	24	A-40103-03	Bearing	2	
75	25	A-40104	Bearing, thrust	4	
75	26	B-49967-13	Shim, .005	As Req'd	
75	26	B-49967-14	Shim, .015	As Req'd	
75	27	A-40356	Nut	2	
75	28	P-11073-22	Pin, roll	2	
75	29	B-40358-01	Screw, special	2	
75	30	A-40359	Pin, roll	2	
75	31	B-40357-02	Pin	2	
75	32	P-11852-02	Screw, cap	2	
75	33	A-40548	Washer	2	

FIGURE 85 3 STAGE FREELIFT CYLINDER ASSEMBLY AND RELATED PARTS

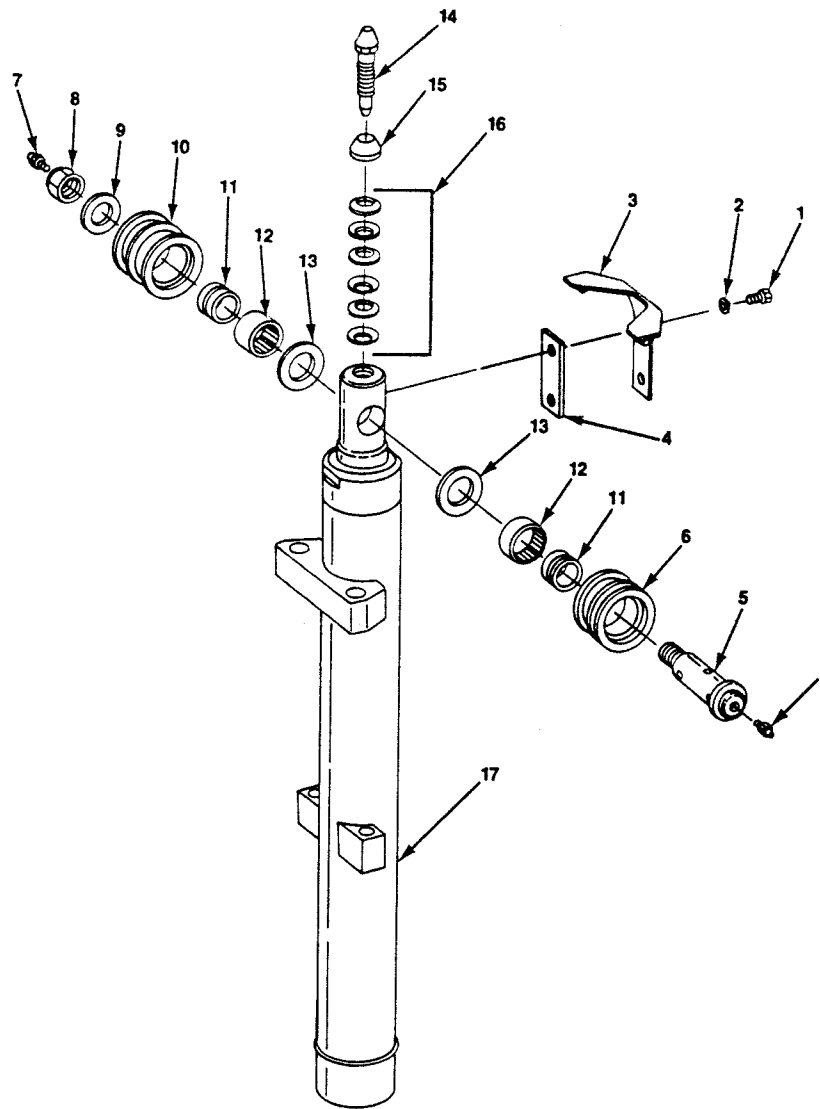


Fig. #	Item #	Part #	Name	# for Assy.	Unit
85	1	P-11143-03	Screw, cap	2	
85	2	P-11016-03	Washer	2	
85	3	B-40565-01	Retainer	1	
85	4	A-40732	Plate, shim	1	
85	5	B-40039	Shaft	1	
85	6	B-40656	Sheave	1	
85	7	P-11160-11	Fitting, grease	2	
85	8	P-11831-06	Nut	1	
85	9	P-11016-08	Washer	1	
85	10	B-40045	Sheave	1	
85	11	B-49993-02	Race, inner	2	
85	12	B-49994-01	Bearing, roller	2	
85	13	A-30553-05	Washer, shim .375	As Req'd	
85	13	A-30553-06	Washer, shim .135	As Req'd	
85	14	B-26519-02	Pin	1	
85	15	A-26389	Nut, spacer	1	
85	16	A-49941-01	Washer, belleville	6	
85	17	D-40727-01	Cylinder assembly (see fig. #53)	1	89/192
85	17	D-40727-02	Cylinder assembly (see fig. #53)	1	95/210
85	17	D-40727-03	Cylinder assembly (see fig. #53)	1	98/216
85	17	D-40727-04	Cylinder assembly (see fig. #53)	1	102/225
85	17	D-40727-05	Cylinder assembly (see fig. #53)	111/240	
85	17	D-40727-06	Cylinder assembly (see fig. #53)	1	119/258

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