



A TEREX BRAND

Parts Manual

Serial Number Range

Z-30/20

from serial number 3090-2214 to
Z30-4506

Part No. 28700GT
Rev: B.02
November 2023

Technical Publications

Genie has endeavored to deliver the highest degree of accuracy possible. However, continuous improvement of our products is a Genie policy. Therefore, product specifications are subject to change without notice.

Readers are encouraged to notify Genie of errors and send in suggestions for improvement. All communications will be carefully considered for future printings of this and all other manuals.

Contact Us:

Internet: www.genielift.com
e-mail: awp.techpub@terex.com

Find a Manual for this Model

Go to <http://www.genielift.com>

Use the links to locate Operator's, Parts, Maintenance, and Service and Repair Manuals.

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Second Edition, Second Printing

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 Printed on recycled paper



A TEREX COMPANY

A TEREX BRAND

Model: Z30/20

Serial number: 3092-12345

Model year: 1992 **Manufacture date:** 10/10/92

Electrical schematic number: ESxxx

Machine unladen weight:

Rated work load (including occupants): 500 lb / 227 kg

Maximum number of platform occupants: 2

Maximum allowable side force : 150 lb / 670 N

Maximum allowable inclination of the chassis:
0 deg

Maximum wind speed : 28 mph/ 12.5 m/s

Maximum platform height : 45 ft 6 in/ 38.8 m

Maximum platform reach : 25 ft 3 in/ 7.7 m

Gradeability: N/A

Country of manufacture: USA

This machine complies with:

ANSI A92.5

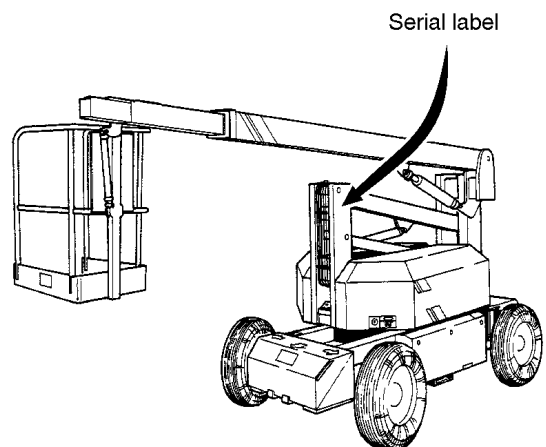
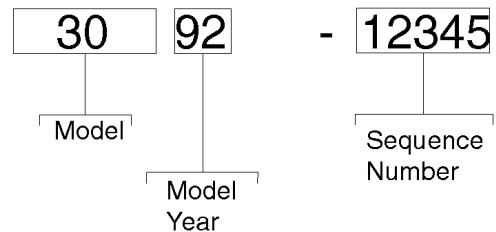
CAN B.354.4

Terex South Dakota, Inc.

18340 NE 76th Street

Redmond, WA 98052

USA



How to Order Parts

Please be prepared with the following information when ordering replacement parts for your Terex or Genie product.

- ☒ Machine model number
- ☒ Machine serial number
- ☒ Part number
- ☒ Part description and quantity
- ☒ Purchase order number
- ☒ "Ship to" address
- ☒ Desired method of shipment
- ☒ Name and telephone number of the authorized distributor in your area

Use the Service Parts Fax Order Form on the next page and fax your order to our Parts Department.

If you don't know the name of your authorized distributor, or if your area is not currently serviced by an authorized distributor, please call Terex or Genie Industries.

Machine Information

Model

Serial Number

Date of Purchase

Authorized Genie Distributor

Phone Number

North America

Telephone (425)881-1800

Toll Free (800)536-1800 in US and Canada

Fax (425)556-8659

Toll Free fax (888)274-6192

Email AWP.PartsSalesPO@terex.com

<http://genielift.com/en>

EMEAR (Europe, Middle East, Africa and Russia)

Telephone (31)(165)519 313

Fax (31)(165)511 148

<http://genielift.co.uk>

Asia Pacific (Genie Singapore)

Telephone +65 6692 7777

Fax +65 6261 8893

<http://genielift.com.sg/>

Australia

Telephone (61)(7)3456 4444

Fax (61)(7)3456 4466

<http://genielift.com.au>

South America

Telephone (55)(11)4082 5600

Fax (55)(11)4082 5630

Required Parts

The following parts are required to perform maintenance procedures as outlined in the *Genie Z-30/20 Service Manual*.

Description	Part No.
Filter Element, 10 Micron.....	46014
O-ring Kit (for ORFS Fittings)	49612
Plug and Cap Kit (for ORFS fittings).....	49613
Safety Chock.....	36555
Multipurpose Grease	(source locally)

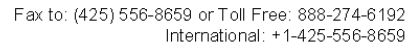
Recommended Parts

Description	Part No.
Genie Blue Paint, 1 Gallon	32150
Genie Blue Paint, 12 Ounce Aerosol	1484
Genie Gray Paint, 1 Gallon.....	32151
Genie Gray Paint, 12 Ounce Aerosol	1268

Manuals

Genie Industries offers the following support documents for these models:

Title	Part No.
Genie Z-30/20N Operator's Manual, Second Edition (from serial number 2214-4314)...	24184
Genie Z-30/20N Operator's Manual, Third Edition (from serial number 4315 to 4506)...	43062
Genie Z-30/20 Service Manual (from serial number 3090-2214 to Z30-4506).....	43063
Genie Z-30/20N Service Manual (to SN 5933).....	35532
EMI Safety Manual	27581
Manual of Responsibilities ANSI A92.5.....	31779



Date _____	Account Number _____
Your Name _____	Your Fax Number _____
_____	Your Phone Number _____
Bill To _____	Ship To _____
_____	_____
_____	_____
_____	_____
Purchase Order Number _____	Ship Via _____

Optional Equipment _____

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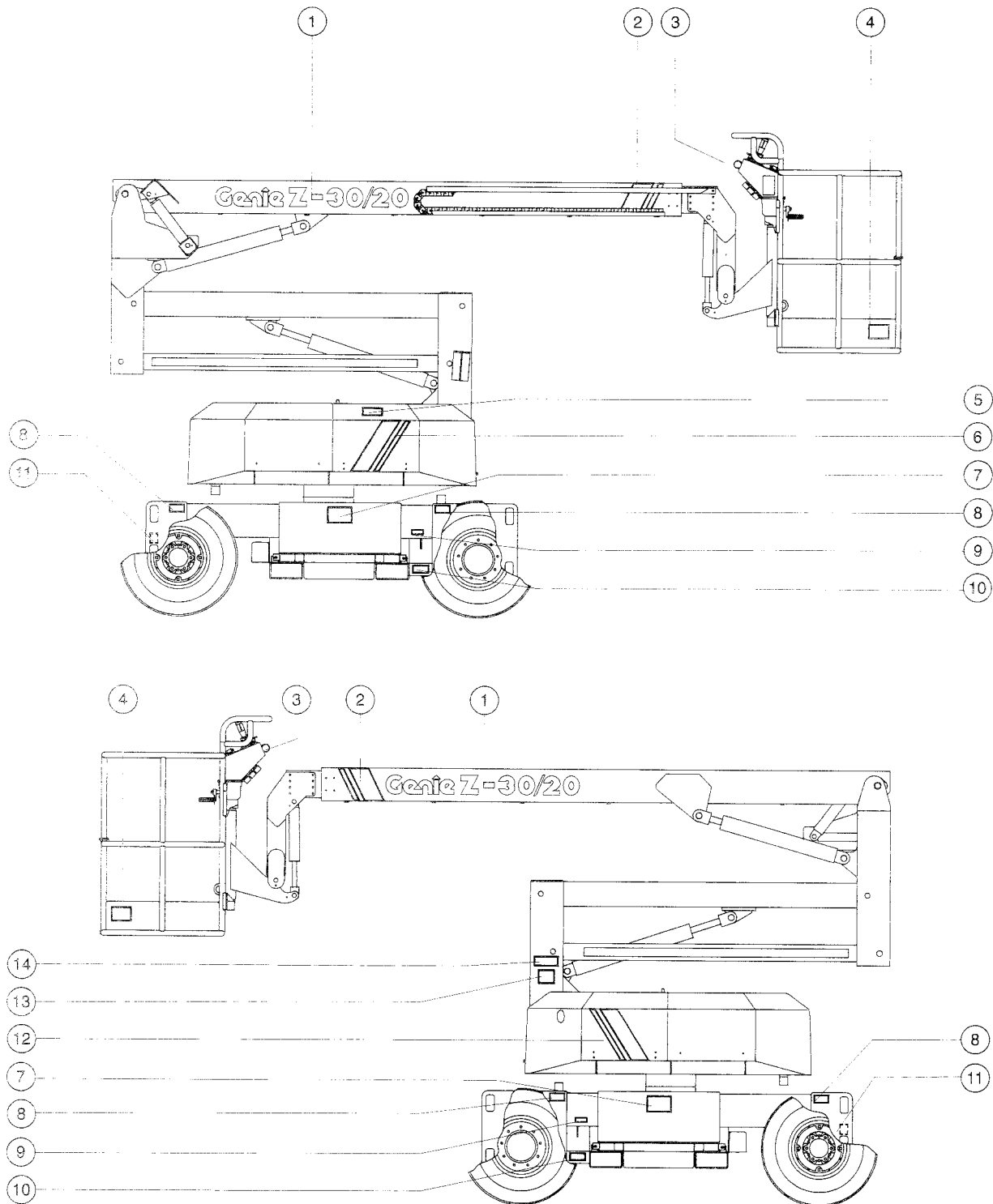
☐ Ship complete order only - No back orders

☐ Ship all available parts and contact customer on disposition of back-ordered parts

☐ Other (please specify)

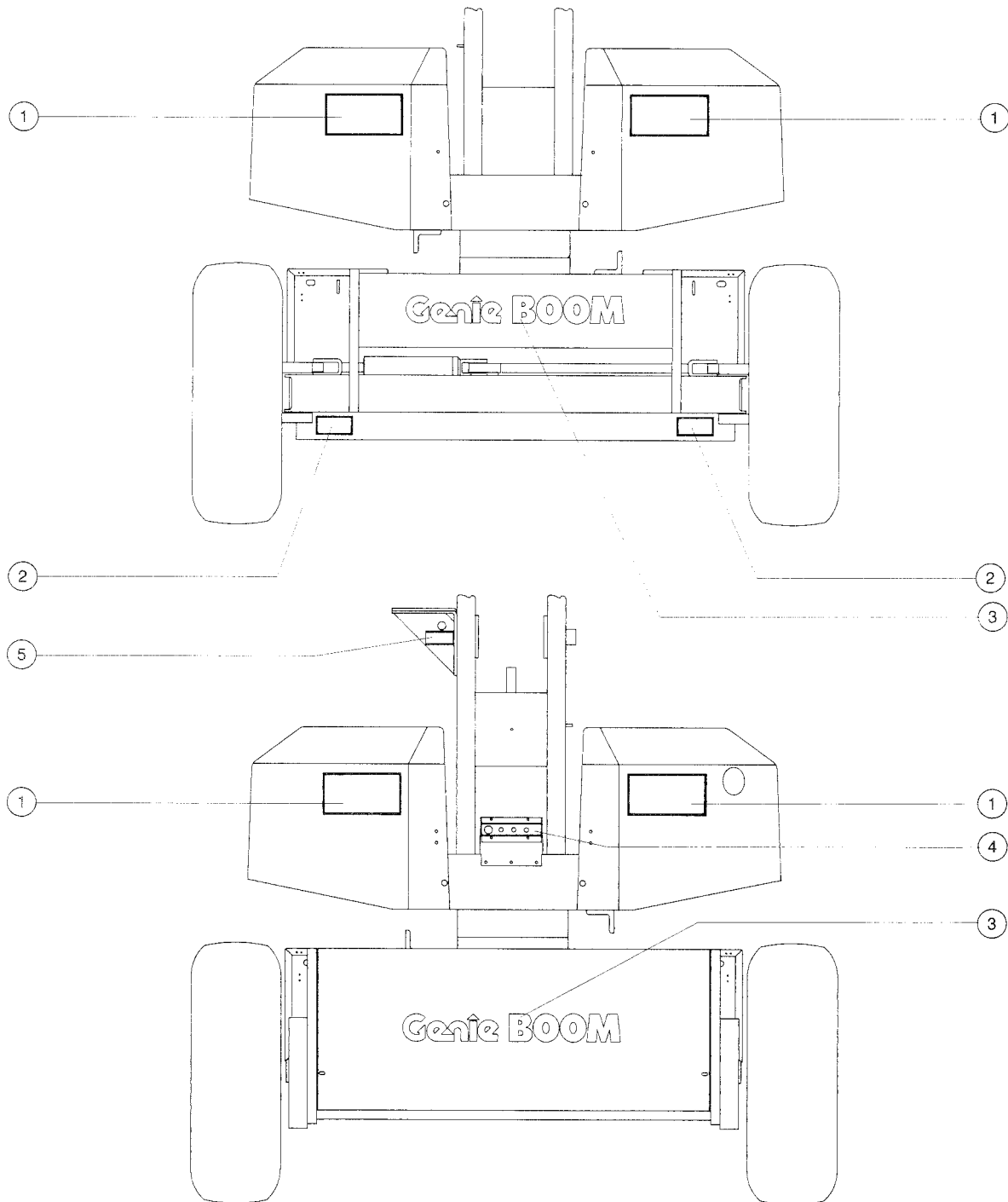
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101.1 Decals And Paint - Profile View



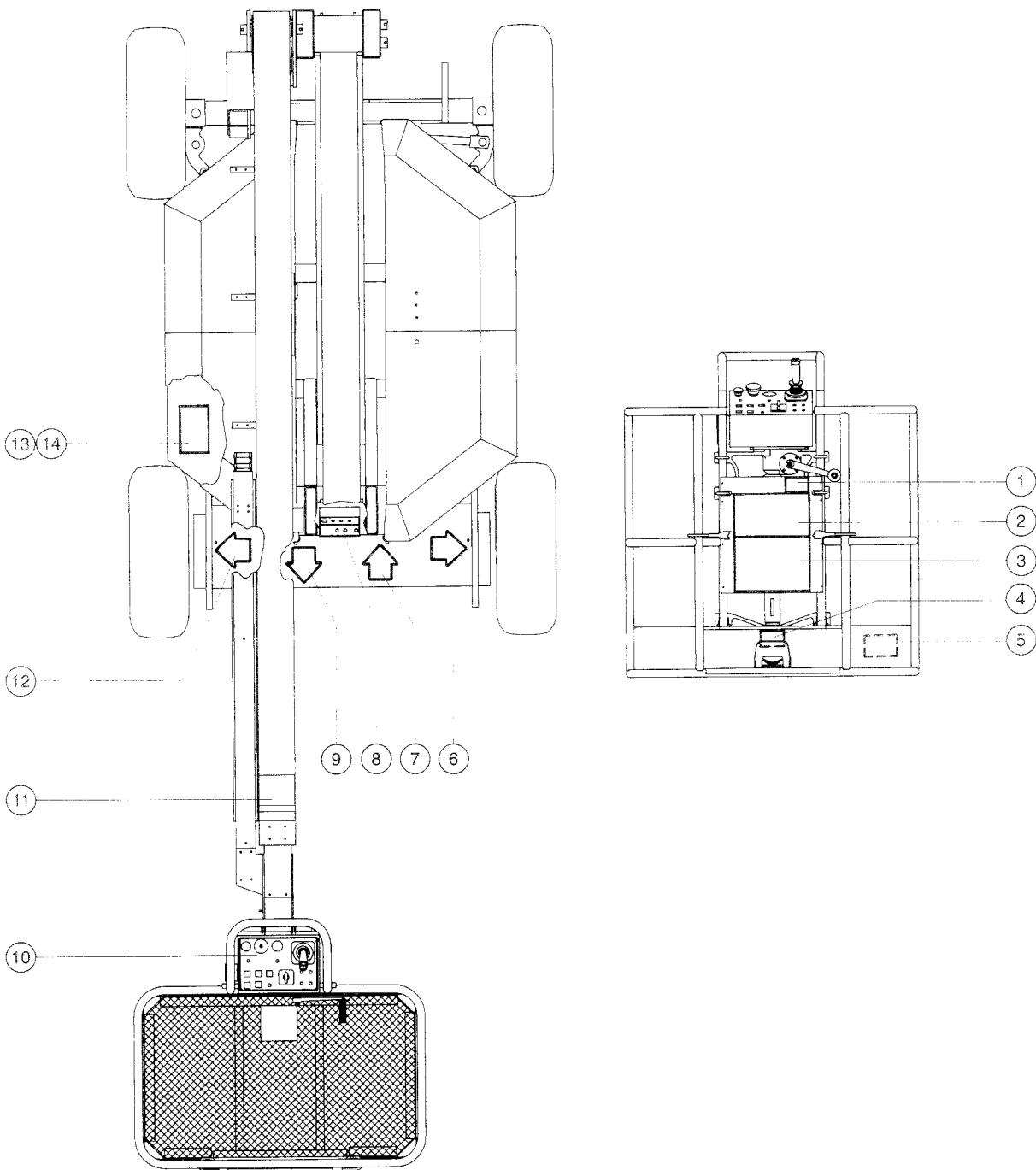
<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
	29050GT	DECAL KIT,SAFETY/INSTRUC.30/20	
	23795GT	DECAL KIT,COSMETIC,Z30/20	
	32150GT	PAINT, WET, GENIE BLUE (1 GL)**	
	1484GT	PAINT, AEROSOL, BRIGHT BLUE***	
	32151GT	PAINT, WET, GENIE GRAY (1GL)**	
	1268GT	PAINT, AEROSOL, GENIE GRAY***	
1	23794GT	DECAL,GENIE Z30/20	2
2	12216GT	DECAL,WHITE STRIPING, G. BOOM	1
3	23725GT	DECAL,DANGER,FAIL.READ,1.5X5	1
4	12725GT	DECAL,500 LB CAPACITY,GB	2
5	13864GT	DECAL,HAND PUMP,LOCATION	1
6	23792GT	DECAL,COVER STRIPE,CHASSIS,PCB	1
7	12331GT	DECAL,"DANGER BATTERY GAS"BOOM	2
8	45235GT	DECAL,CAUTION,AIR FILLED TIRE	4
8	12338GT	DECAL,URETHANE FILL.TIRES-BOOM	4
9	23663GT	DECAL,BATTERY CONNECTION,Z30	2
10	12463GT	DECAL,FORK LIFTING" BOOM	4
11	12334GT	DECAL,TRANS. TIE DOWN BOOM	4
12	23793GT	DECAL,COVER STRIPE,CHASSIS,Z30	1
13	12332GT	DECAL,BATTERY CHARGER, BOOM	1
14		SERIAL PLATE contact Genie Service Parts to order	1

102.1 Decals And Paint - End View



<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
	29050GT	DECAL KIT,SAFETY/INSTRUC.30/20	
	23795GT	DECAL KIT,COSMETIC,Z30/20	
	32150GT	PAINT, WET, GENIE BLUE (1 GL)**	
	1484GT	PAINT, AEROSOL, BRIGHT BLUE***	
	32151GT	PAINT, WET, GENIE GRAY (1GL)**	
	1268GT	PAINT, AEROSOL, GENIE GRAY***	
1	12245GT	DECAL,"ELECTROCUTION HAZARD"GB	4
2	12463GT	DECAL,FORK LIFTING" BOOM	2
3	21383GT	DECAL,GENIE BOOM,24.5",WHITE	2
4	23661GT	DECAL,GROUND CNTRL.W/KEY,Z30	1
		shown	
4	23662GT	DECAL,GROUND CNTRL W/POWER,Z30	1
5	12515GT	DECAL,POWER TO PLAT." BOOM	1

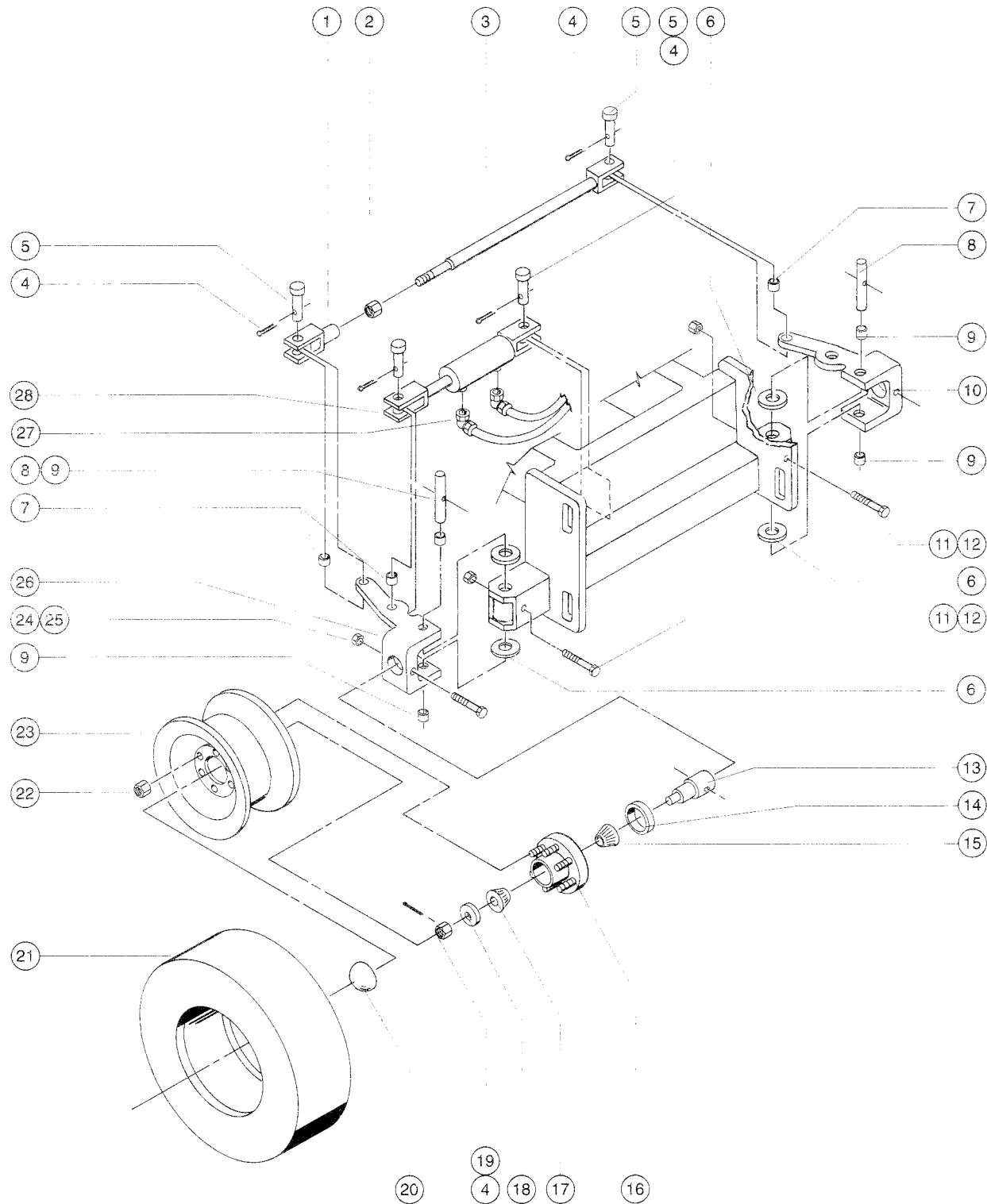
103.1 Decals And Paint - Top View And Platform



103.1 Decals And Paint - Top View And Platform

<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
	29050GT	DECAL KIT,SAFETY/INSTRUC.30/20	
	23795GT	DECAL KIT,COSMETIC,Z30/20	
	32150GT	PAINT, WET, GENIE BLUE (1 GL)**	
	1484GT	PAINT, AEROSOL, BRIGHT BLUE***	
	32151GT	PAINT, WET, GENIE GRAY (1GL)**	
	1268GT	PAINT, AEROSOL, GENIE GRAY***	
1	12953GT	DECAL,PLAT.ROTATION INTRUC	1
2	12385GT	DECAL,SAFETY RULES,BOOM	1
3	23664GT	DECAL,OPERATING INSTRUCTNS,Z30	1
4	12333GT	DECAL,"CAUTION BODY BELT" BOOM	1
5	12725GT	DECAL,500 LB CAPACITY,GB	1
6	45401GT	DECAL,RIGHT ARROW	1
7	45403GT	DECAL,FORWARD ARROW	1
8	23663GT	DECAL,BATTERY CONNECTION,Z30	1
	shown		
8	23661GT	DECAL,GROUND CNTRL.W/KEY,Z30	1
9	45404GT	DECAL,REVERSE ARROW	1
10	43035GT	DECAL,PLAT.CONTROL BOX,Z30	1
11	12216GT	DECAL,WHITE STRIPING, G. BOOM	1
12	45402GT	DECAL,LEFT ARROW	1
13	23665GT	DECAL,HAND PUMP OPERATION,Z30	1
14	23672GT	DECAL,WIRING DIAGRAM,Z30(1990)	1

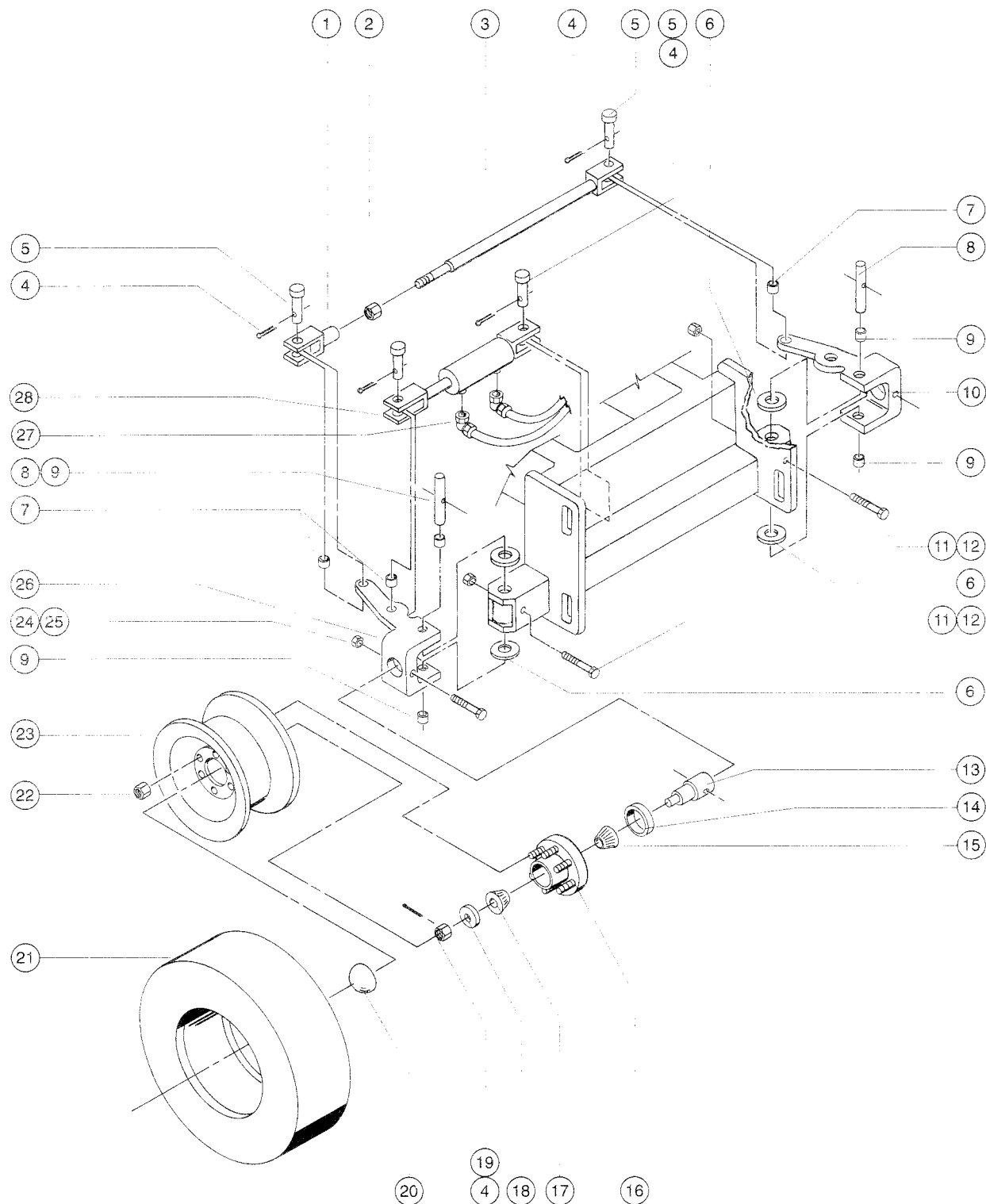
201.1 Steer Linkage Installation



201.1 Steer Linkage Installation

Item	Part No.	Description	Qty.
1	23154-SGT	WELDMENT,ROD END	1
2	28352GT	NUT,HEX,JAM,1-8	1
3	23292GT	TIE ROD WELD Z/30 38"	1
4	5361GT	PIN,COTTER,.125 X 1.5	5
5	19440GT	PIN,CLEVIS,1 X 2.5 LG	4
6	13071GT	WASHER,THRUST 2 7/8X1 1/4 X1/8	4
7	23080GT	BEARING,GARLOCK,16DU16	3
8	13366GT	PIN, 1.25DIA. X 7.25LG, 2HOLE	2
9	13012GT	BUSHING, 1.5 X 1.25 X 1,OILITE	4
10	28977GT	YOKE ASSEMBLY,L.S.,Z30/20 includes index numbers 7 & 9	1
11	12981GT	SCREW,HHC,3/8-16 X 4.5	2
12	4828GT	NUT,NYLOCK,3/8-16	2
13	13745GT	AXLE-500 LB SPINDLE YOKE	2
13	22881GT	HUB KIT,ARMSTRONG includes index numbers 14 - 17 & 20	2
14	13635-9GT	SEAL-GREASE (500# HUB KIT)	1
15	45108GT	OUTER CONE - MODEL 60-8 small bearing race not included	1
15A	40146GT	BEARING RACE (SMALL) (45873) outer cone not included	2
16	13635-11PGT	HUB W/PRESSED IN STUDS,PAINT	1
16	21166GT	LUG BOLT,5/8-18,WHEEL HUB***	1
16	13635-5GT	BOLT-WHEEL LUG,500 LB BOOM	1
17	13635-7GT	BEARING,OUTER (13635 HUB KIT)	1
18	13635-4GT	WASHER,SPINDLE, 500 LB BOOM	1
19	13635-3GT	NUT,SPINDLE,3/4-16	1
20	13635-6PGT	CAP, DUST, 13635 HUB KIT,BLUE	1
21	54140GT	TUBELESS PNEUMATIC TIRE,9-14LT	1
21	23320GT	ASSY,TIRE &WHEEL,14.5X7,6ON6	2
21	23704GT	TIRE/WHL ASSY,FOAM FILLED 173#	2
22	54627GT	NUT,LUG,5/8-18 X 90 DEGREE,Z45	12

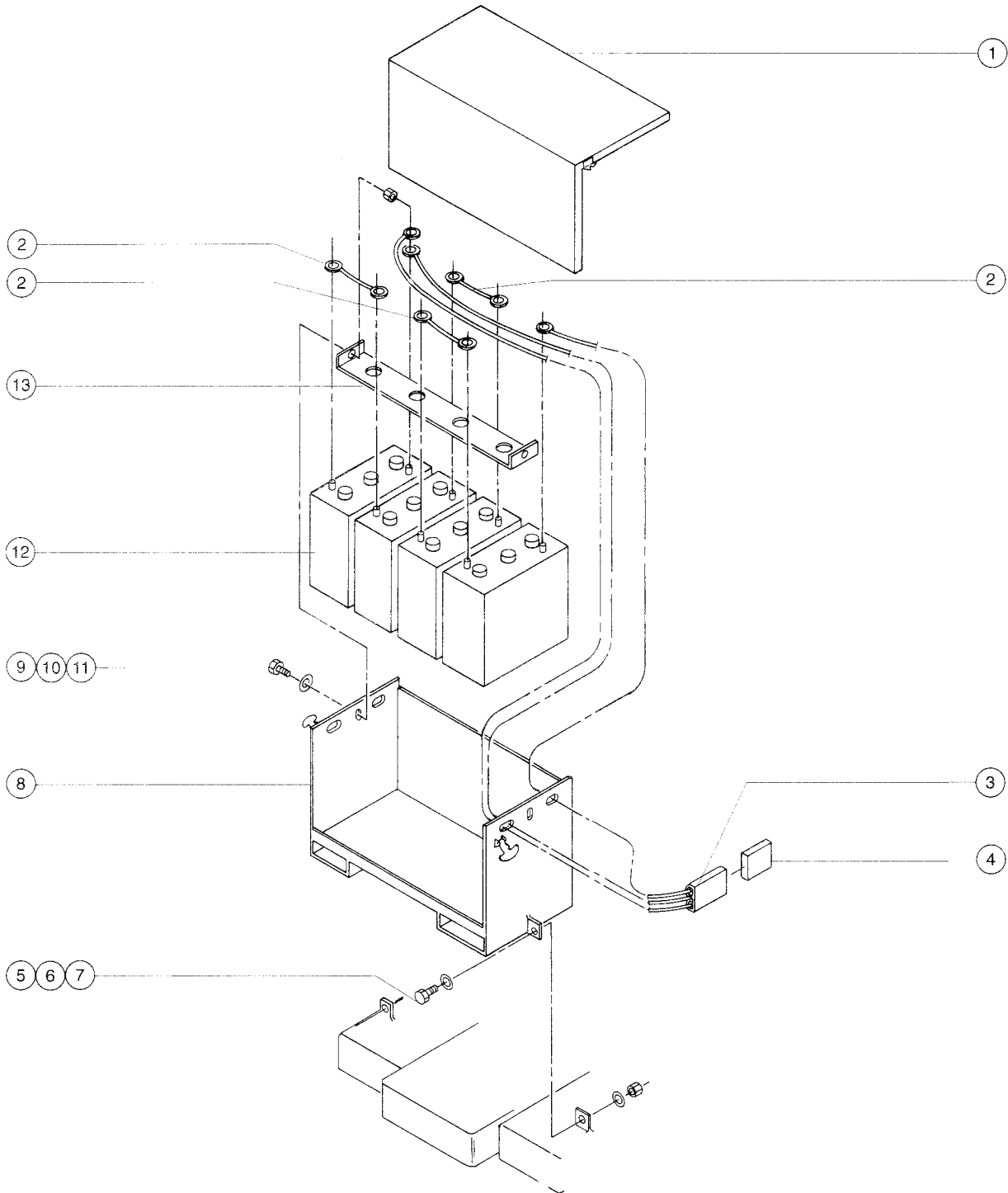
201.1 Steer Linkage Installation



201.1 Steer Linkage Installation

<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
23		WHEEL,14.5X7-6 HOLE ON 6.00B.C no longer available	1
24	6198GT	NUT, NYLOCK, 1/2-13	2
25	12461GT	SCREW,HHC,1/2-13 X 5,GRD.8	2
26	28978GT	YOKE ASSEMBLY,R.S.,Z30/20 includes index numbers 7 & 9	1
27		Ref. Hydraulic Hoses & Fittings refer to section 205.1	1
28	13078GT	CYLINDER,HYD-2 X 6 X 16.25	1
28	49328GT	SEAL KIT,UNIVERSL(STEER CYL)**	1

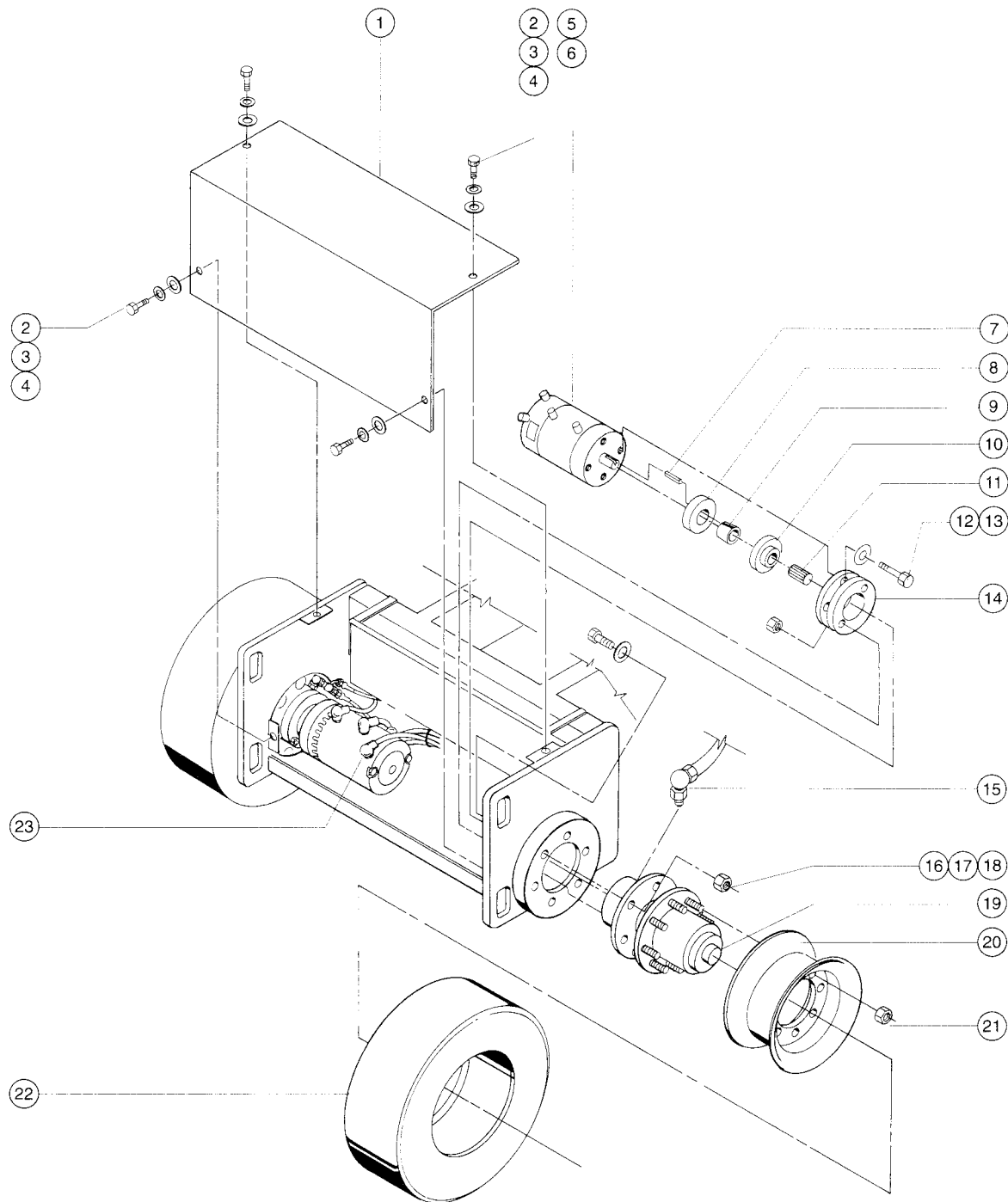
202.1 Battery Pack Installation



202.1 Battery Pack Installation

<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
		ACCESS,EXTRA BATT.BOXES,Z30/20 (component no longer available)	
1	28983GT	BATTERY BOX COVER ASSY,30/20 1	1
1-	13579GT	LATCH,FLEXIBLE DRAW 2	2
1-	6272GT	RIVET,STL,STL,P,.125 X .25 4 (not shown, used to secure hold down lock to cover)	4
2	13191GT	BAT.CABLE ASSY-BAT.BOX 3	3
3	28980GT	BATT.BOX PWR.CORD ASSY,RS,3020 1 shown	1
3	28979GT	BATT.BOX PWR.CORD ASSY,LS,3020 1	1
3	128138GT	CONN HOUSING SBX175, BATT 1	1
4	28981GT	DRIVE CHASS.PWR.CORD ASSY,3020 1	1
4	128138GT	CONN HOUSING SBX175, BATT 1	1
5	6019GT	SCREW,HHC,3/8-16 X 1.25 GRD 5 2	2
6	5397GT	WASHER,FLAT,USS,5/16",Y 4	4
7	4828GT	NUT,NYLOCK,3/8-16 2	2
8	28982GT	BATTERY BOX ASSY,30/20 1	1
8	13579GT	LATCH,FLEXIBLE DRAW 1	1
9	6090GT	SCREW, HHC, 1/4-20 X .75 2	2
10	6638GT	WASHER, FLAT, USS, 1/4"Y 2	2
11	6091GT	NUT, NYLOCK, 1/4-20 2	2
12	13006GT	BATTERY-245AH TALL VERSION** 4	4
13	23312PGT	BRACKET,BATT.RESTRAINT,PAINTED 1	1

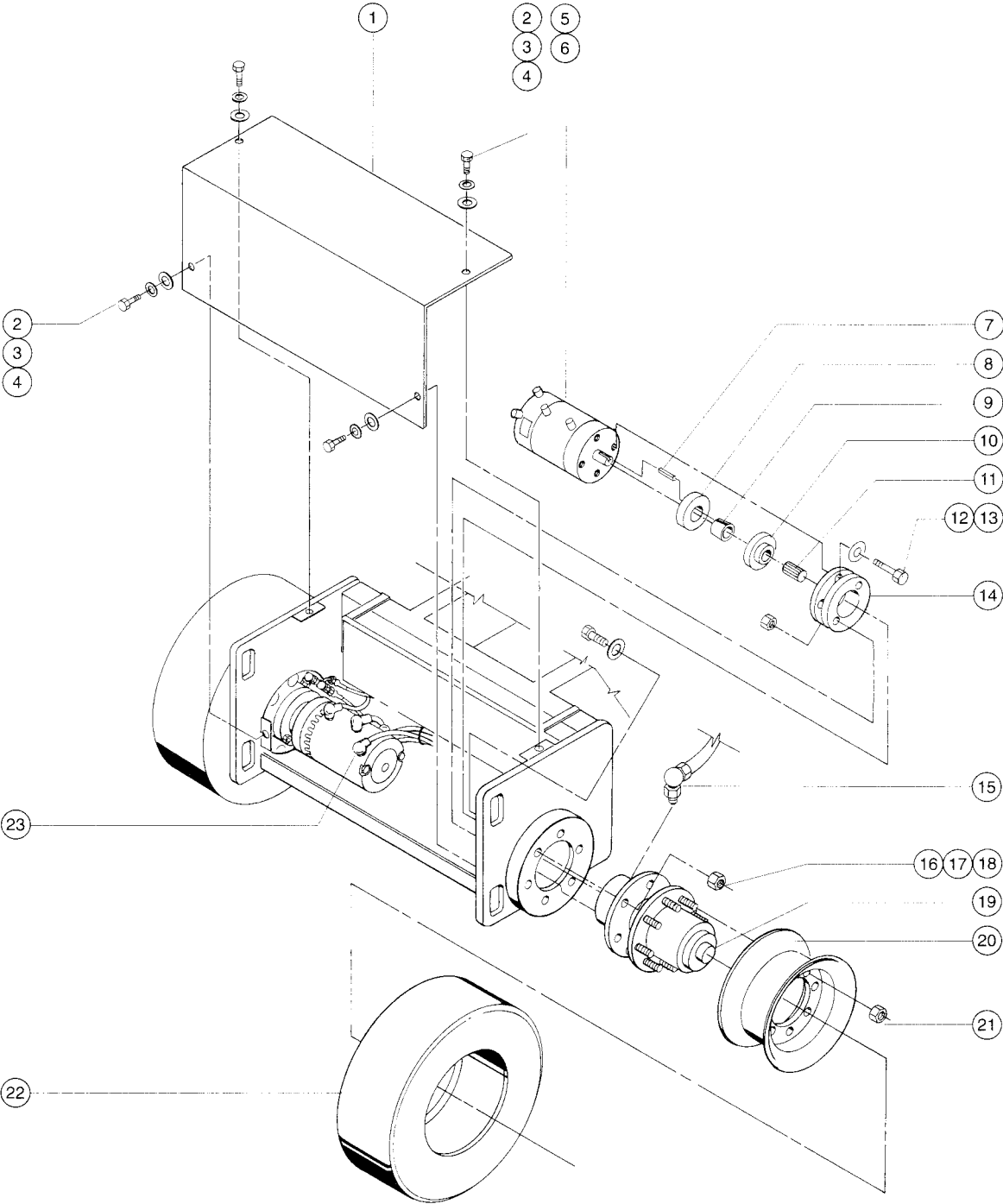
203.1 Rear Wheel Drive Installation



203.1 Rear Wheel Drive Installation

Item	Part No.	Description	Qty.
1	28984GT	COVER,REAR END W/DECALS	1
2	6090GT	SCREW, HHC, 1/4-20 X .75	4
3	6356GT	WASHER,LOCK,.25	4
4	6638GT	WASHER, FLAT, USS, 1/4"Y	4
5		MOTOR,TRACTION,D.C.,24V/36V	2
		(component no longer available)	
5	13062-1GT	MOTOR BRUSH-ELEC.DRIVE MOTOR	2
5		BRUSH RIGGING,13062,23403***	2
		(component no longer available)	
6	8910GT	BOOT,CABLE TERM,MED.RED,4/0	8
7	28986GT	KEYSTOCK,STL .188	3 in ch es
8	23262GT	COUPLER,TAPER LOCK COLLAR	2
9	23261GT	COUPLER,TAPER LOCK	2
10	23260GT	COUPLER,INTERNALLY SPLINED	2
11	23263GT	SPLINED SHAFT,0.875 SAE 13T	2
12	6019GT	SCREW,HHC,3/8-16 X 1.25 GRD 5	8
13	6021GT	WASHER,LOCK,.375	8
14		COUPLER,HYD.BRAKE/ELEC.MOTOR	2
		(component no longer available)	
15		Ref. Hydraulic Hoses & Fittings	2
		refer to section 205.1	
16	45076GT	NUT,HEX,JAM,5/8-11	12
17	13064GT	WASHER,FLAT,.625 HARDENED	12
18	21175GT	SCREW,SHC,5/8-11 X 4,A574	12
19	23603PGT	TORQUE HUB & BRAKE ASSY,PTD	2
19A	20193GT	TORQUE HUB,35:1***	
		for 23603P (Seal Kit 1286606, Bearing Kit 1286607)	
19A-	1286606GT	SEAL KIT,TORQUE HUB (20193)	
19A-	1286606GT	SEAL KIT,TORQUE HUB (20193)	
		for 23603P	
19A-	21143GT	BEARING KIT (45553) TORQUE HUB	
		for 23603P (inventory limited to stock on hand as component is no longer available)	
19A-	1286607GT	BEARING KIT,TORQUE HUB (20193)	
		for 23603P	
19A-	21144GT	CAP,DISENGAGE-45553 TORQUE HUB	
		for 23603P	

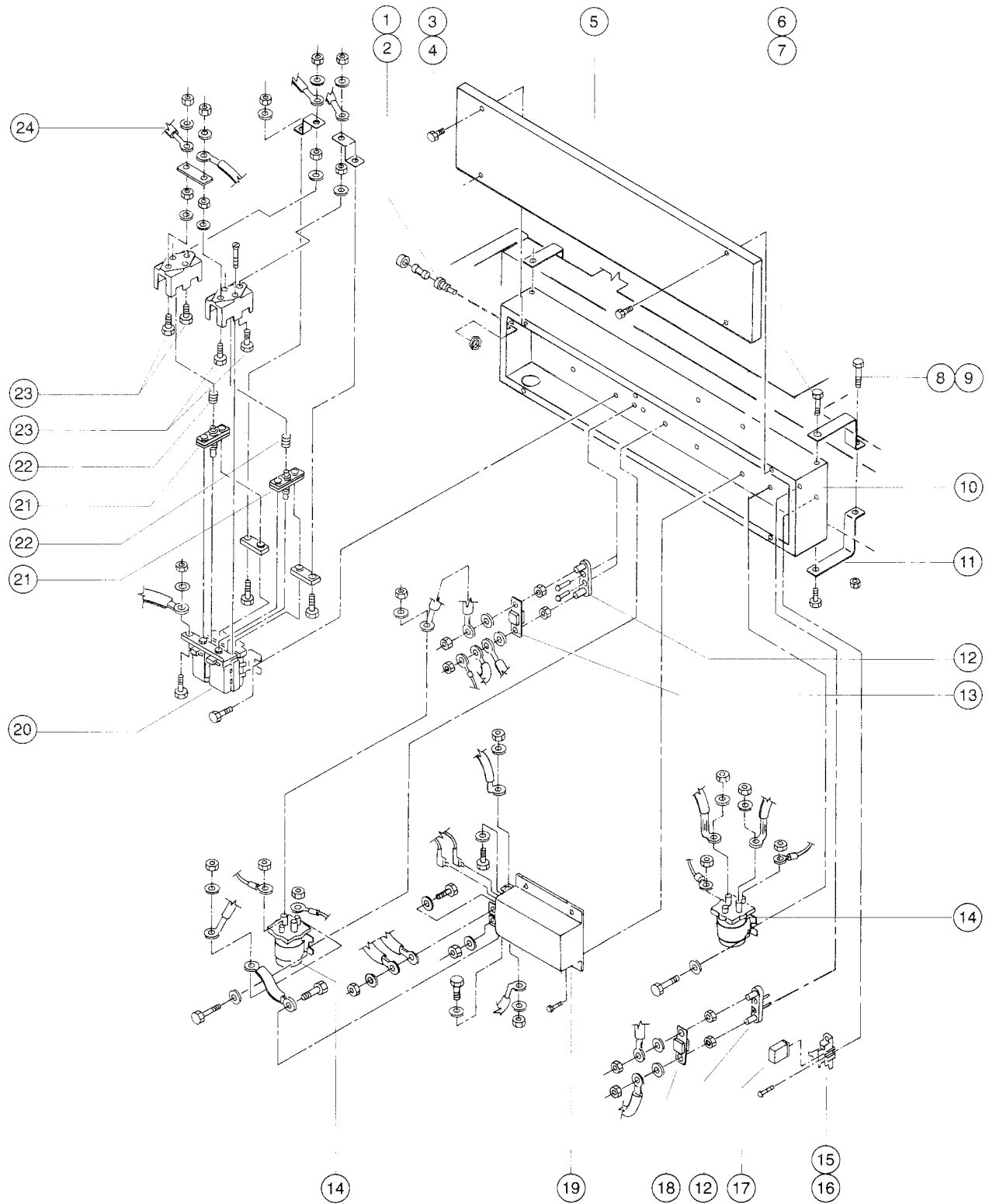
203.1 Rear Wheel Drive Installation



203.1 Rear Wheel Drive Installation

<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
19A-	21145GT	DISCONNECT ROD-45553 TQ.HUB for 23603P	
19A-	21146GT	COVER CAP,TORQUE HUB*** for 23603P	
19A-	58438GT	KIT,COVER,TORQUE HUB,45553*** for 20193	
19A-	21148GT	WASHER,THRUST,TORQUE HUB for 23603P	
19A-	21149GT	LUG,WHEEL STUD,5/8-18,W1/4HB** for 23603P	
19A-	58589GT	THRUST CAP (20193) for 20193	
19B	114328GT	KIT,Z30 BRAKE SERVICE (1) from SN 2214 to 3050	2
19B	114314GT	KIT,Z30 BRAKE SERVICE (2) from SN 3051 to 3959	
19B	114315GT	KIT,Z30 BRAKE SERVICE (3) from SN 3960 to 4314	
19B	114316GT	KIT,Z30 BRAKE SERVICE (4) from SN 4315 to 4506	
19B-	119556GT	BRAKE,MICO DRIVE,Z30N,Z34 ** for use only after above listed kit is installed	
19B-	35587GT	SEAL KIT,MICO BRAKE for 119556	
19B-	38114GT	LINING KIT, MICO BRAKE** for 119556	
19B-	38115GT	BEARING KIT, MICO BRAKE for 119556	
19B-	72319GT	SPRING (RED) MICO for 119556	
19C	27430GT	SEAL KIT,BRAKE,MICO (25208) for 25208, 36259 brakes (no longer available)	
19C	27428GT	BRAKE,LINING KIT,MICO (25208) for 25208, 36259 brakes (no longer available)	
19C	27429GT	BEARING KIT,BRAKE,MICO (25208) for 25208, 36259 brakes (no longer available)	
20	54139GT	WHEEL,14.5 X 7 for 119556	2
21	54627GT	NUT,LUG,5/8-18 X 90 DEGREE,Z45 for 119556	16
22	54140GT	TUBELESS PNEUMATIC TIRE,9-14LT for 119556	2
22	45094GT	WHEEL ASSY, INDUSTRIAL, AF for 119556	2
22	1267847GT	WHEEL ASSY, INDUSTRIAL, FF for 119556	2
23		Ref. Power Cables - Drive Chassis (refer to figure 2-F, page 26) for 119556	2

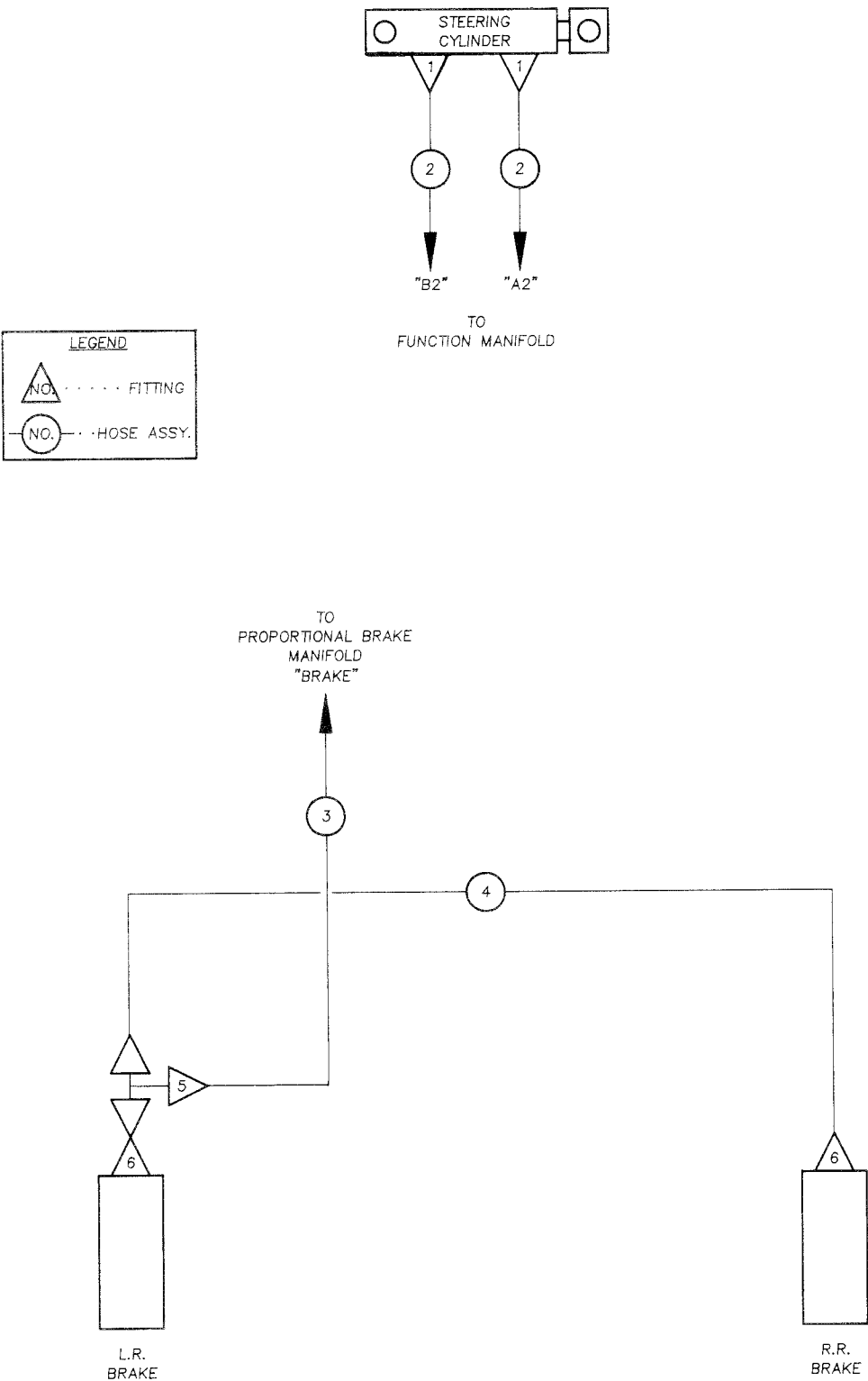
204.1 Electronic Control Module



204.1 Electronic Control Module

<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
1	20733GT	FUSE HOLDER,PANEL MOUNTED	1
2	13097GT	FUSE,10 AMP	1
3	5094GT	SCREW,RHM,10-32 X .5	4
4	5397GT	WASHER,FLAT,USS,5/16",Y	4
5	23317PGT	COVER,CONTACTOR BOX,PAINTED	1
6	6090GT	SCREW, HHC, 1/4-20 X .75	4
7	6091GT	NUT, NYLOCK, 1/4-20	4
8	6708GT	SCREW,HHC,3/8-16 X 2.25	2
9	4828GT	NUT,NYLOCK,3/8-16	2
10	28985GT	CONTACTOR BOX,30/20	1
11	23319PGT	CLAMP,CONTACTOR BOX,PAINTED	4
12	66717GT	FUSE BLOCK, ANN & ANL FUSE	2
13	13104GT	FUSE,300 AMP,VERY FAST ACTING	1
14	58154GT	CONTACTOR,REPLACEMENT KIT **	2
15	20813GT	SOCKET,RELAY	1
16	24343GT	RELAY HOLD DOWN	2
17	20812GT	RELAY,SPDT,24V	1
18	23422GT	FUSE,80 AMP,VERY FAST ACTING	1
19	23314GT	CONTROLL.36V/48V,DC MTR.SPD	1
20	23417GT	CONTACTOR,2X SPDT,24V/DC includes index numbers 21 through 23	1
21	27419GT	CONTACT,MOVING (SW181 & SW182)	2
22	23845GT	SPRING,RETURN	2
23	22265GT	CONTACT,STATIONRY,19550 RELAY	4
24		Power Cables - Drive Chassis	4
		refer to section 206.1	

205.1 Hydraulic Hoses And Fittings - Drive Chassis

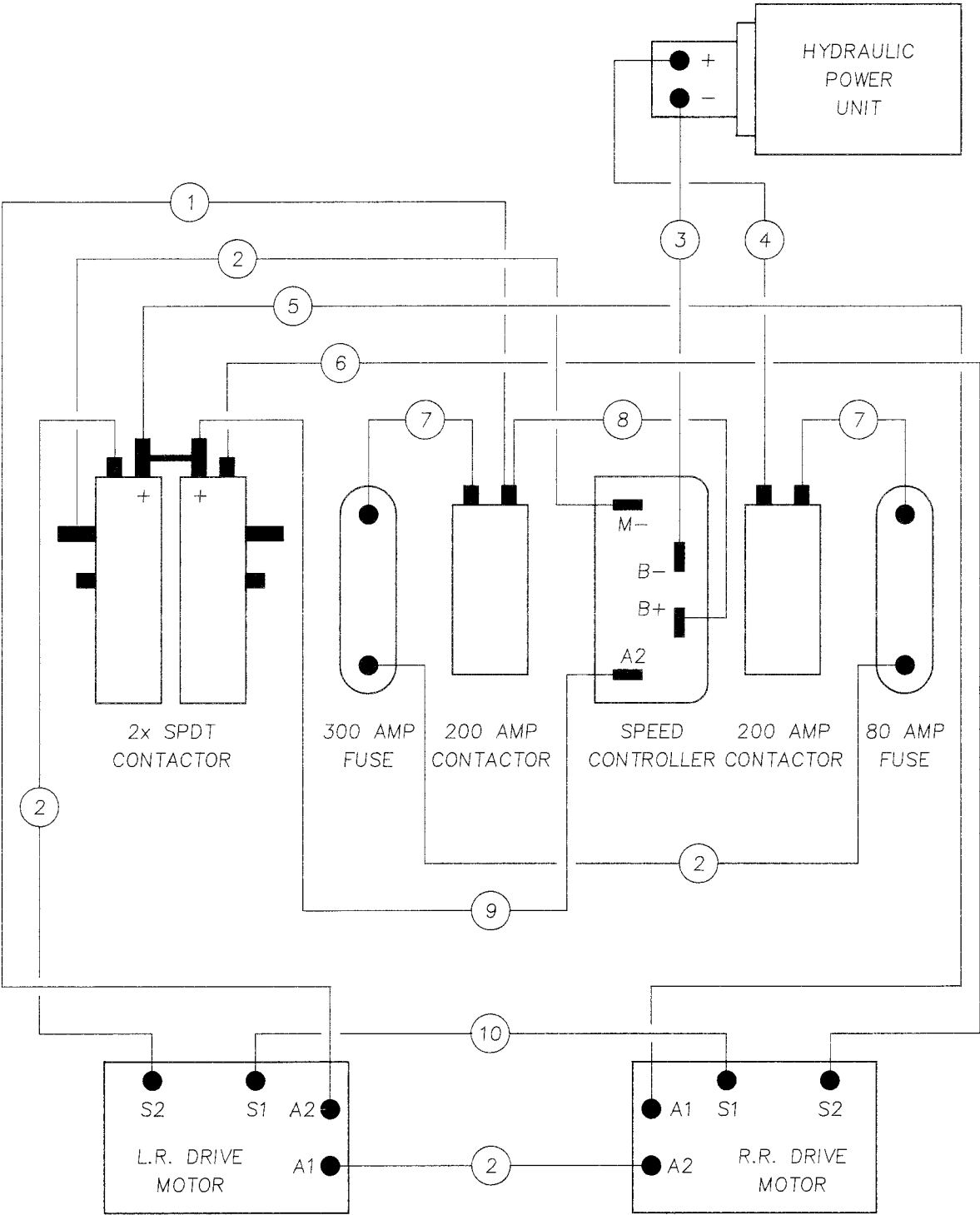


205.1 Hydraulic Hoses And Fittings - Drive Chassis

<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
1	13114GT	ELBOW,070202-4-6	2
2	29036GT	HOSE ASSY,75.6"	2
3	29046GT	HOSE ASSY,84.5"	1
4		HOSE ASSY-40.6" (19664) (component no longer available)	1
5	13757GT	TEE,RUN,070432-4	1
6	13921GT	ELBOW, 07022-4-4	2



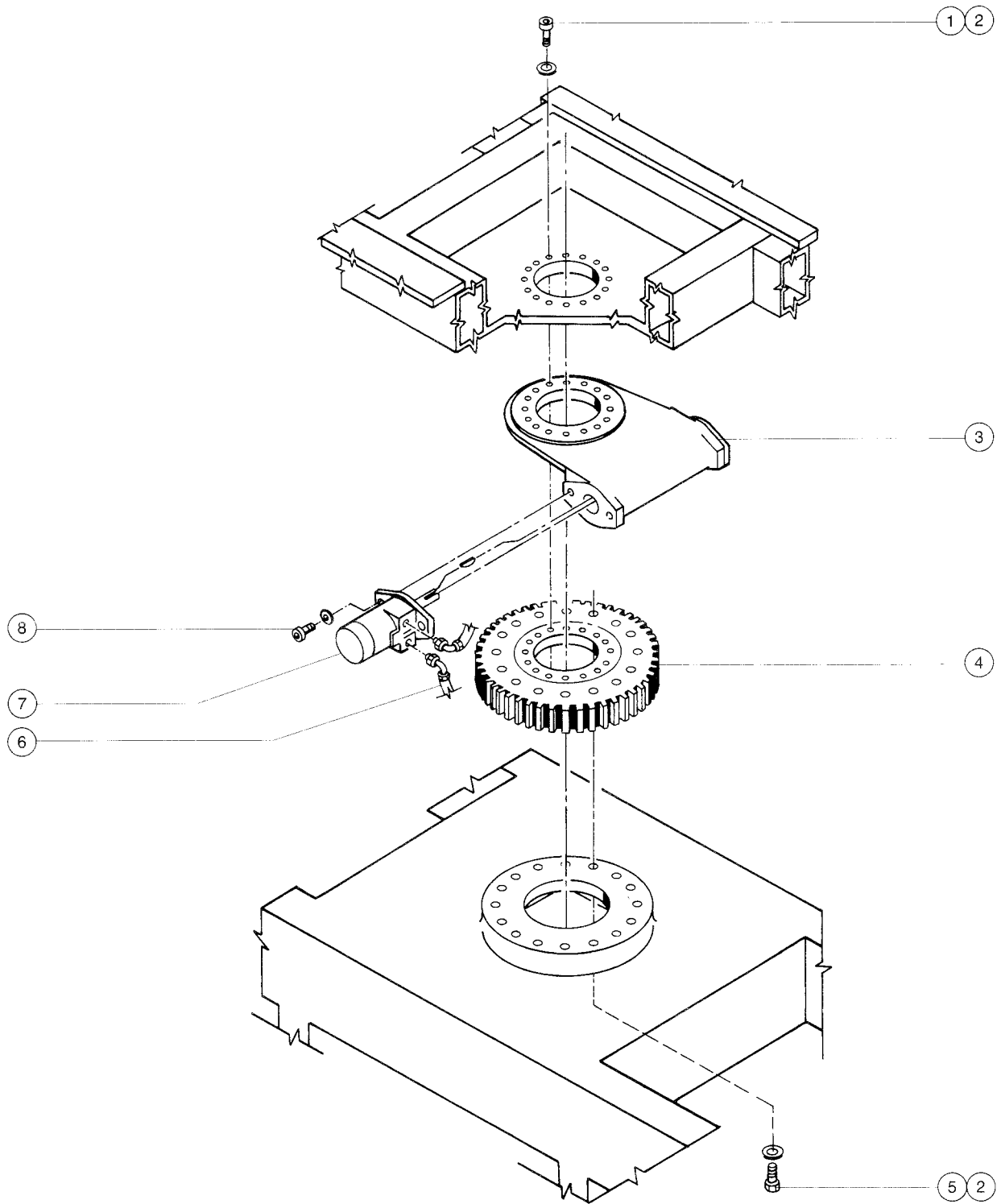
206.1 Power Cables - Drive Chassis



206.1 Power Cables - Drive Chassis

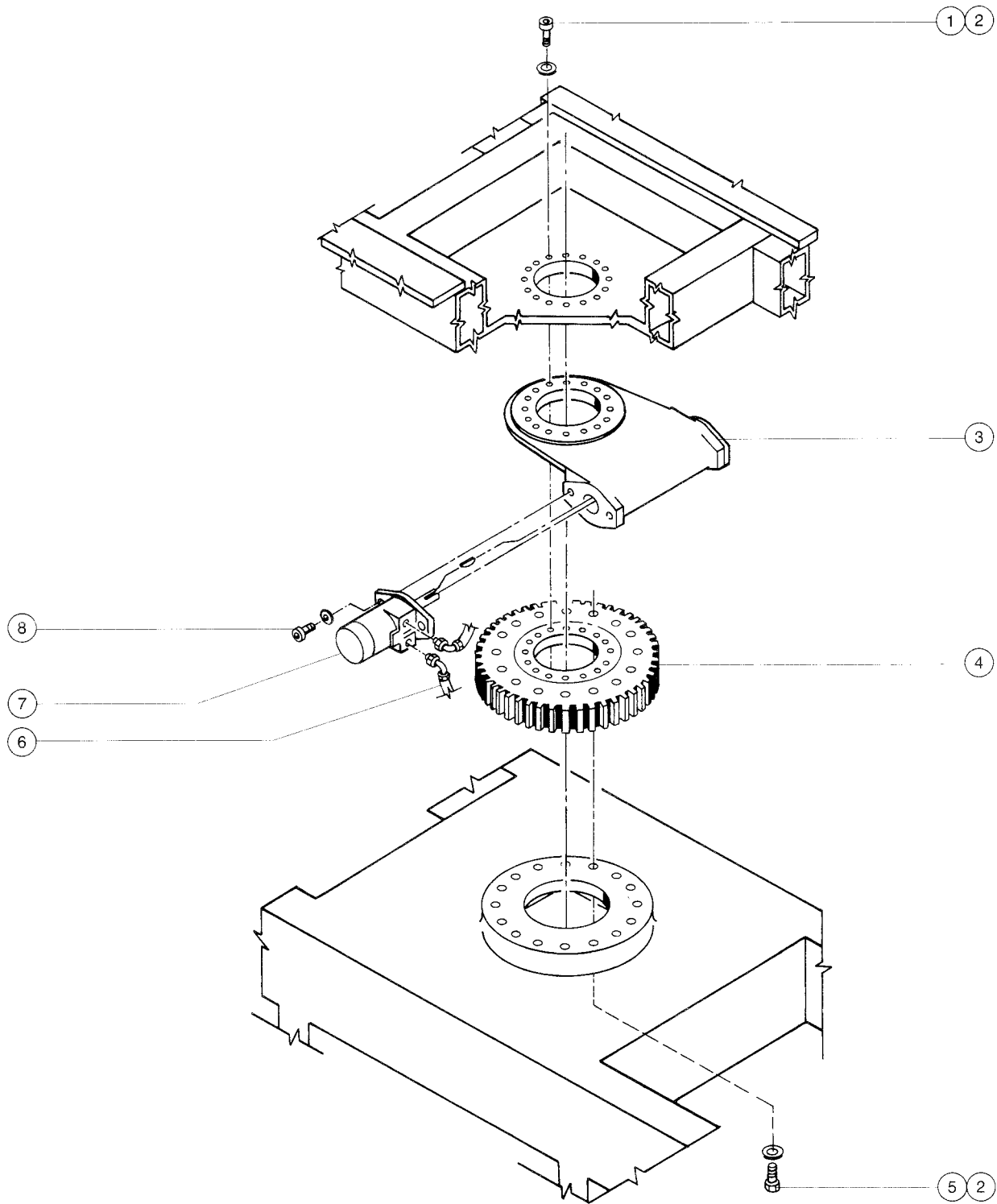
<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
1	29228GT	CABLE ASSEMBLY,37.0"	1
2	29226GT	CABLE ASSEMBLY,23.0"	4
3	29225GT	CABLE ASSEMBLY,100.0"	1
4	29224GT	CABLE ASSEMBLY,117.5"	1
5	29227GT	CABLE ASSEMBLY,40.0"	1
6	29229GT	CABLE ASSEMBLY,53.0"	1
7	45501GT	POWER CABLE - LIFT SOLENOID	2
8	29009GT	ASSY,CABLE,1.5"	1
9	24443GT	CABLE ASSEMBLY,13.0"	1
10	45500GT	CABLE ASSEMBLY,33.0"	1

301.1 Turntable Rotator



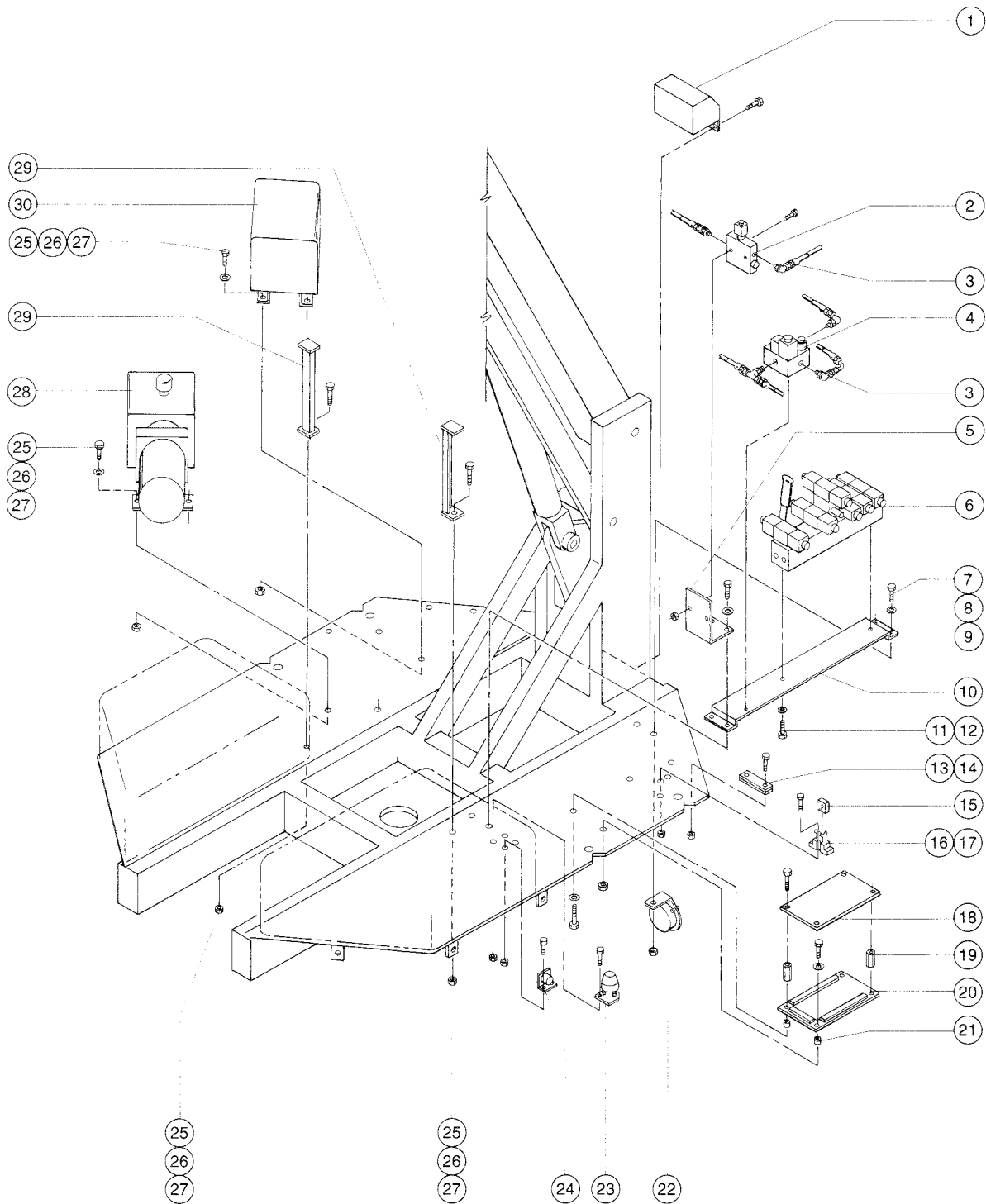
Item	Part No.	Description	Qty.
1	20654GT	SCREW,SHC,5/8-11 X 3.50,A574	15
2	13064GT	WASHER,FLAT,.625 HARDENED	31
3		GEARBOX,ROTATION,PAINTED (21087P) see item 4 (component no longer available)	1
4A		BEARING,TURNTABLE (21086) (component no longer available)	1
4B		ROTATOR TURNTABLE ASSY*** (56779) (component no longer available)	
4B-	58296GT	SNAP RING (74994) for 56779	
4C		ROTATOR TURNTABLE ASSEMBLY*** (74994) (component no longer available) (if 74994 used to replace 21086 or 21087, also order qty 2 part number 56843)	
4C-	58296GT	SNAP RING (74994) for 74994	
4C-	58330GT	O-RING OR-151 N73038 (74994) for 74994	
4C-	1297489GT	BEARING,CONE (74994) for 74994	
4C-	1297490GT	BEARING,CUP (74994) for 74994	
4C-	58343GT	GASKET,MTR,2A,MAG (74994) for 74994	
4C-	58344GT	SEAL,NAT'L. #471818 (74994) for 74994	
4C-	58331GT	SEAL 21252875-375BYP2 (74994) for 74994	
4C-	58296GT	SNAP RING (74994) for 74994	
4C-	58345GT	SCREW,FHS,1/2-13 X 1.25,BLACK for 74994	
4C-	58360GT	KIT,SEAL (74994) for 74994	
4D	119111GT	ROTATOR TURNTABLE ASSEMBLY***	
4D-	128565GT	SHIM KIT,TURNTABLE*** for 119111	
4D-	128618GT	SEAL KIT*** for 119111	
4D-	128619GT	ZERK,GREASE,1/8 NPT,67.5 DEG** for 119111	
4D-	128620GT	ZERK,GREASE,1/8 NPT,45 DEG*** for 119111	
4D-	128621GT	BEARING,CUP*** for 119111	
4D-	128622GT	BEARING,CONE*** for 119111	
4D-	128899GT	SHAFT,WORM GEAR*** for 119111	
4D-	1284189GT	CASE COVER,ROTATOR,Z30/34 (119111) for 119111	
5	21175GT	SCREW,SHC,5/8-11 X 4,A574	16
6		Hydraulic Hoses & Fittings refer to section 310.1	16

301.1 Turntable Rotator



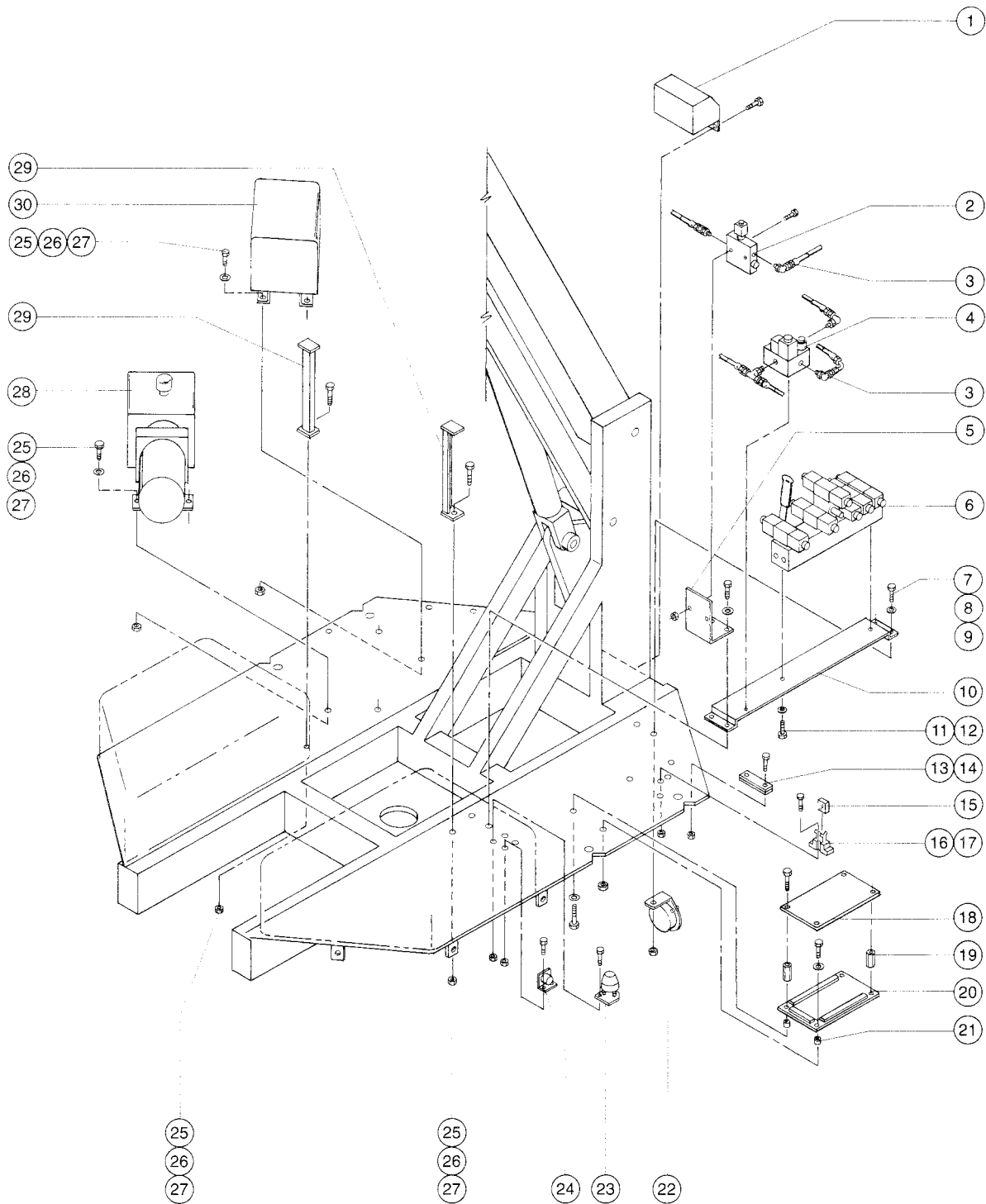
<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
7	21172GT	MOTOR-TURNTABLE	1
7	27275GT	SEAL KIT (21172)	1
8	22202GT	SCREW,SHC,1/2-13 X 2.25 ***	2

302.1 Turntable Overview



Item	Part No.	Description	Qty.
1		Ground Controls refer to section 305.1	
2	826876GT	VALVE,PROPORTIONAL SOLENOID	1
3		Hydraulic Hoses & Fittings refer to section 310.1	1
4	23477GT	MANIFOLD,BRAKE,Z30	1
5	23902PGT	BRACKET,PROPRTL.VALVE MNT,PNTD	1
6		MANIFOLD,FUNCTION (component no longer available)	1
7	6019GT	SCREW,HHC,3/8-16 X 1.25 GRD 5	4
8	5397GT	WASHER,FLAT,USS,5/16",Y	4
9	4828GT	NUT,NYLOCK,3/8-16	4
10	23695PGT	BRACKET,HYD.MNFLD.MNT.,PAINTED	1
11	77692GT	SCREW,HHC,3/8-16 X 1 GRD 8	4
12	6021GT	WASHER,LOCK,.375	4
13	20373GT	TERMINAL STRIP,COMPACT,16 POLE	1
14	56445GT	DIODE,6 AMP 200 PIV,REEL	
15	20812GT	RELAY,SPDT,24V	1
16	20813GT	SOCKET,RELAY	1
17	24343GT	RELAY HOLD DOWN	2
18	29031GT	COVER,P.C.BOARD W/DECALS,30/20	1
19	13863GT	NUT,COUPLING, 1/4-20 X .875	1
20		PCB,ASSY,500 LB ONLY** (component no longer available)	1
20	1296499GT	DIODE, 3AMP, 200V	1
20	13084GT	RESISTOR,10 OHM, 1/2 WATT CF	1
21	4513GT	SPACER - .50	4
22	45212GT	HORN KIT,24V	1
23	44586GT	SENSOR,LEVEL 4.5***	1
24	13103GT	ALARM,97DB ELECTRONIC	1
25	6888GT	SCREW,HHC,1/4-20 X 1	22
26	6638GT	WASHER, FLAT, USS, 1/4"Y	22

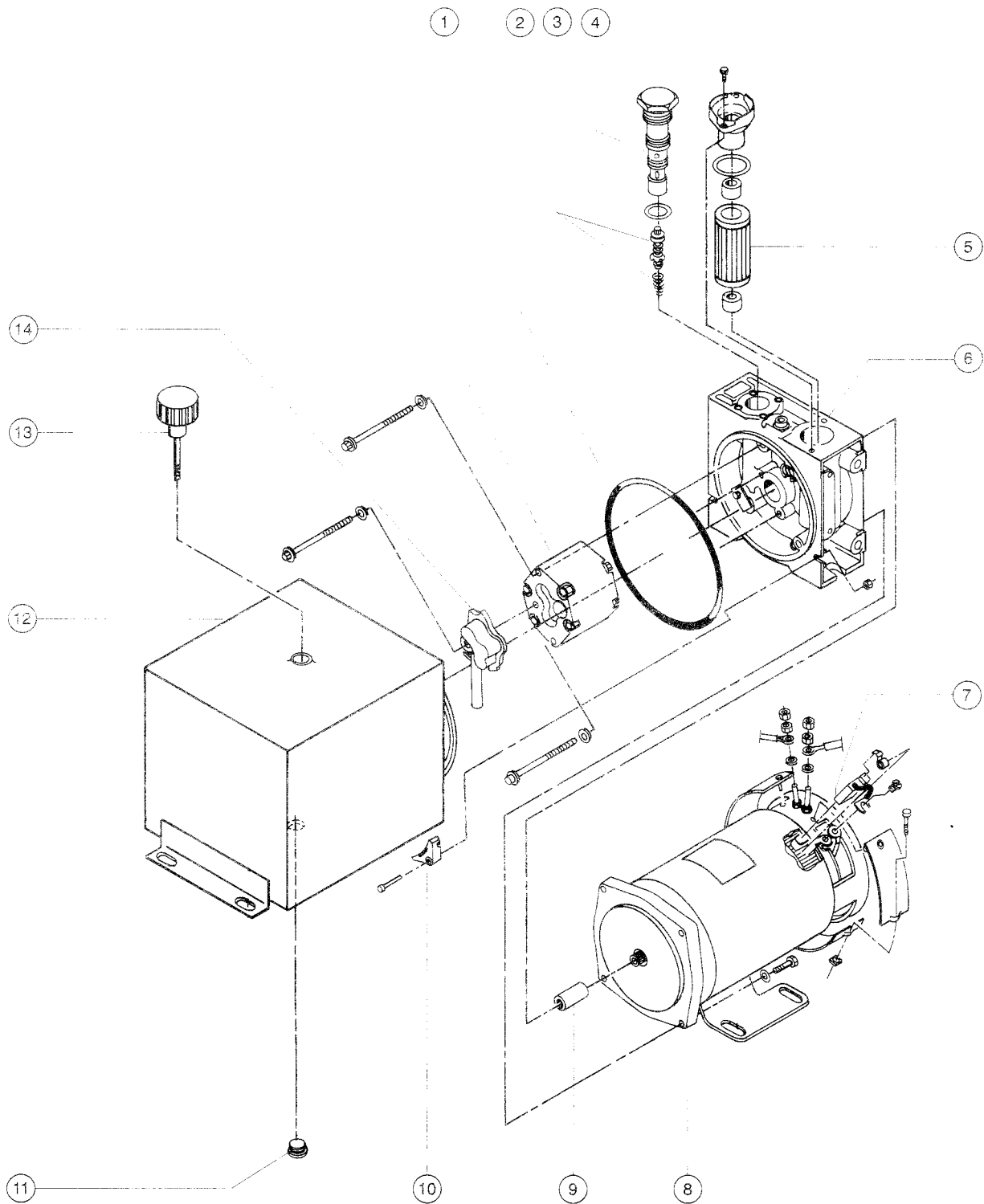
302.1 Turntable Overview



302.1 Turntable Overview

<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
27	6091GT	NUT, NYLOCK, 1/4-20	22
28	23440GT	OBS-POWER UNIT,48V.DC,DV1003**	1
29	13481GT	TURNTABLE COVER SUPPORT WELDMT	2
30		Battery Charger Assembly	1
		refer to section 304.1	

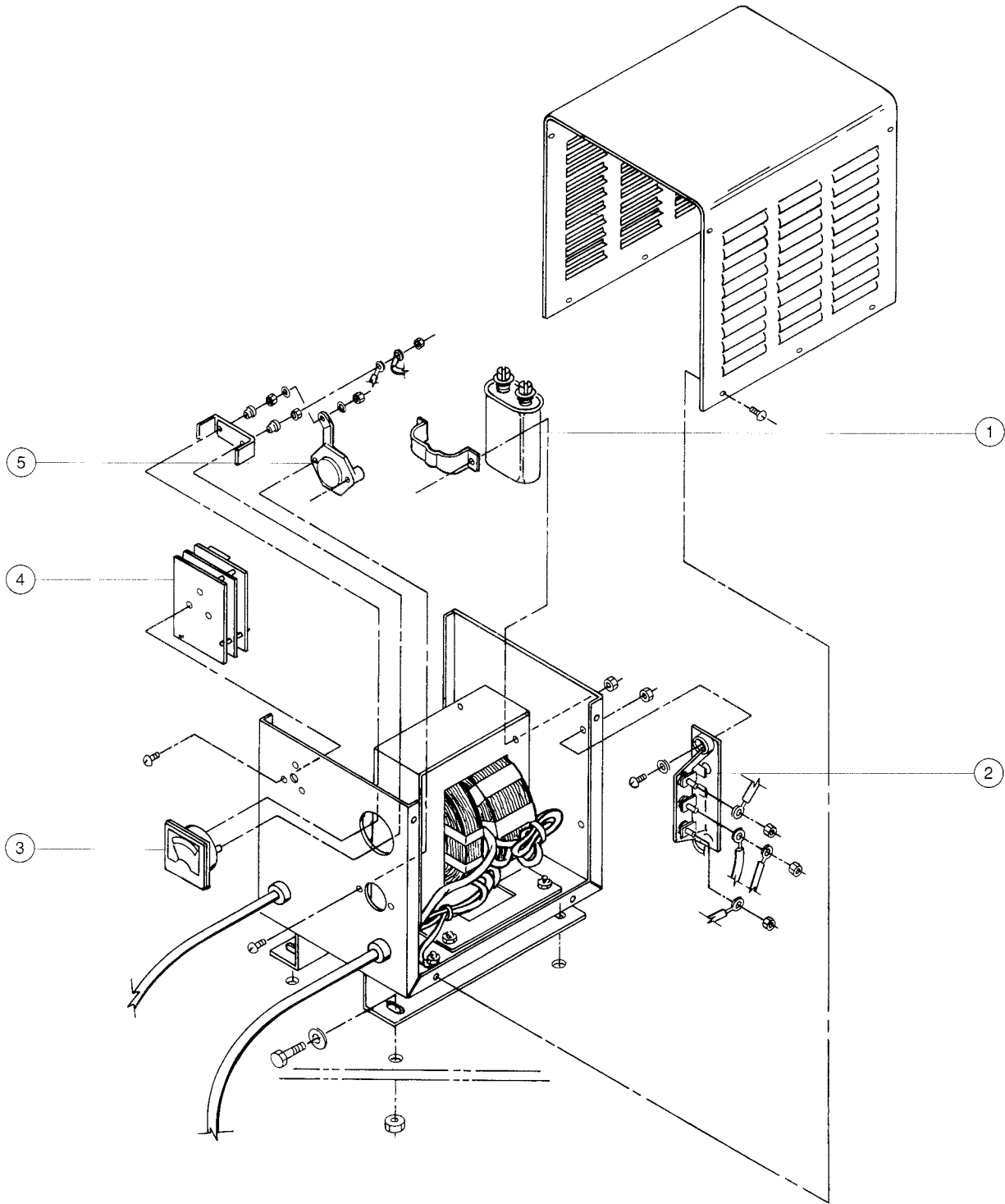
303.1 Hydraulic Power Unit



303.1 Hydraulic Power Unit

Item	Part No.	Description	Qty.
-	37862GT	KIT,POWER UNIT UPDATE,Z30** from SN 2214 to 3735	
-	42401GT	POWER UNIT,MONARCH,48V,Z30*** from SN 3736 to 4506	
1	27078GT	PUMP ASSY,2.5GPM FENNER for Monarch Pwr Unit use p/n 44794GT	1
1	29218GT	O-RING KIT,27078 PUMP,P2.5D for Monarch Pwr Unit use p/n 40318GT	1
2	17559GT	O-RING,RESERVOIR,2-254 BUNA50A for Monarch Pwr Unit use p/n 40318GT	1
3	16660GT	VALVE,RELIEF, RV14, DC STONE** (spring not included) for Monarch Pwr Unit use p/n 46239GT	1
4	19791GT	VALVE CAP-RELEASE-DU-1001** for Monarch Pwr Unit use p/n 38155GT	1
5A	17566GT	FILTER ELEMENT,20 MIC-WRKFORCE REPLACED BY UPGRADE KIT P/N-147218GT	1
5B	147218GT	KIT, FILTER UPGRADE, Z-30 STD	1
5B-	78622GT	FILTER ASSY,SAE8,10 MIC,PAPR** for use after installing 147218GT	
6	27077GT	ENDHEAD ASSY,#23440-OBSOLETE** Replcd w/svc Kit 37862(if Fenner)if updated, p/n 42401GT	1
7	13998-2GT	BRUSH & HOLDER 13998-1 MOTOR* for Monarch Pwr Unit use p/n 46241GT	4
8	27080GT	MOTOR,48V (23440) for Monarch Pwr Unit use p/n 44793GT	1
9	23618GT	COUPLER,MTR.,DU-1007 (13998)**	1
10		RESERVOIR MOUNTING CLAMP No replacement for Fenner or Monarch	3
11	75014GT	PLUG,HEX,130109E,1/2 NPT*** for Monarch Pwr Unit use p/n 46246GT	1
12	27079GT	RESERVOIR,2.5 GAL. for Monarch Pwr Unit use p/n 46237GT	1
13	20116GT	BREATHING CAP W/DIPSTICK-DPL for Monarch Pwr Unit use p/n 44796GT	1
14	29219GT	COVER,SUCTION, FENNER Not for Monarch	1

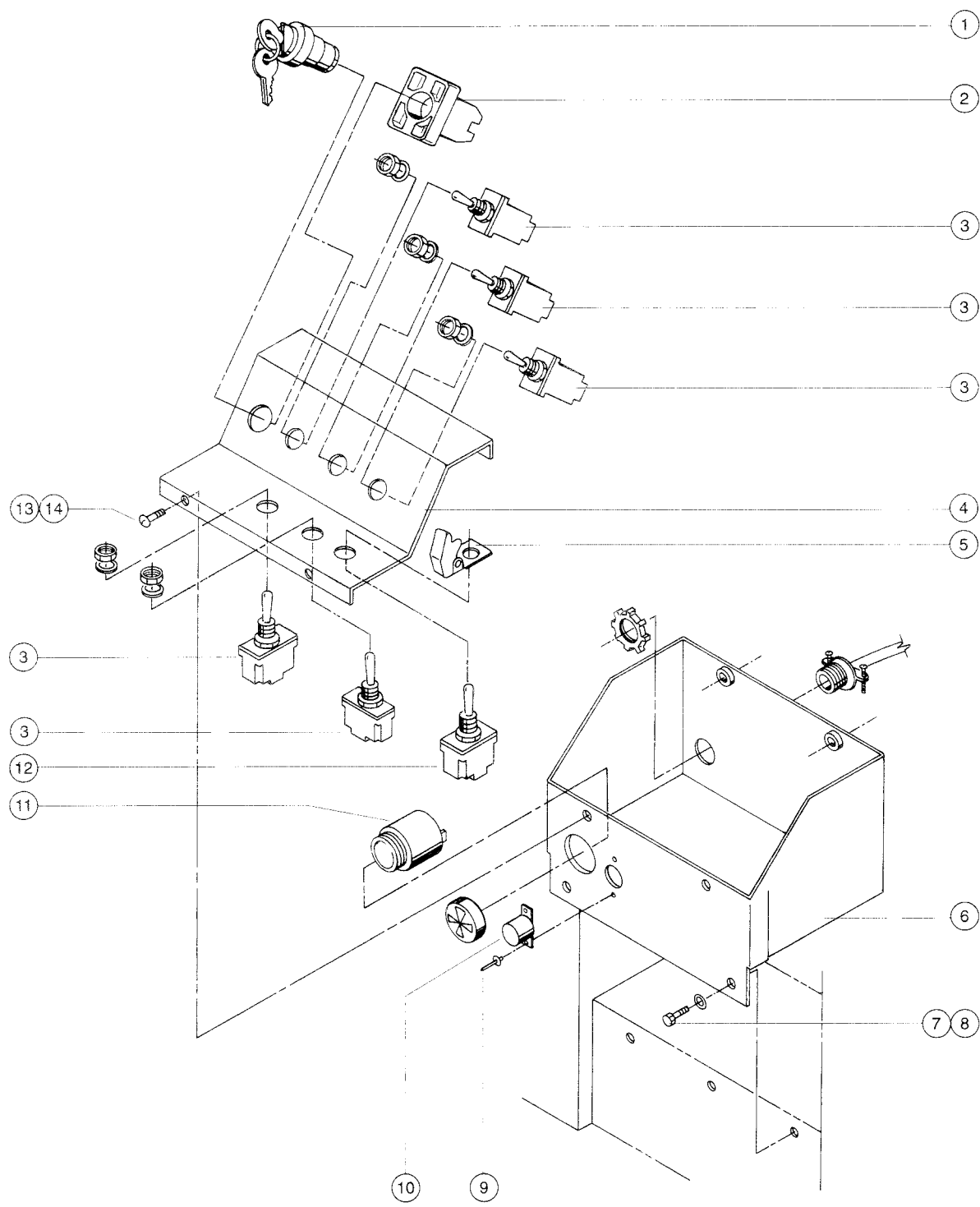
304.1 Battery Charger



304.1 Battery Charger

<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
A	54794GT	CHARGER,48V,110VAC,60H,25A	
B	24059GT	CHARGER,115/230V,50HZ(48V,** (no longer available refer to 42465)	
C	42465GT	CHARGER, WORLD, 48V, 20AMP	
1	13008-3GT	CAPACITOR,6 MFD,660VAC-CHARGR*	1
2	27262GT	HEATSINK ASSY W/DIODES (23442)	1
3		AMMETER-BOOM CHARGER	1
		no longer available	
4	27263GT	TIMER (23442)(41896)(36314)	1
4	18078GT	RELAY,CHARGER TIMER**	1
4	27830GT	TIMER(24059,41897,41898,41899)	1
4	19533GT	RELAY,CHARGER .TIMER(19531/32)	1
5	13008-6GT	FUSE ASSY-BOOM CHARGER	1

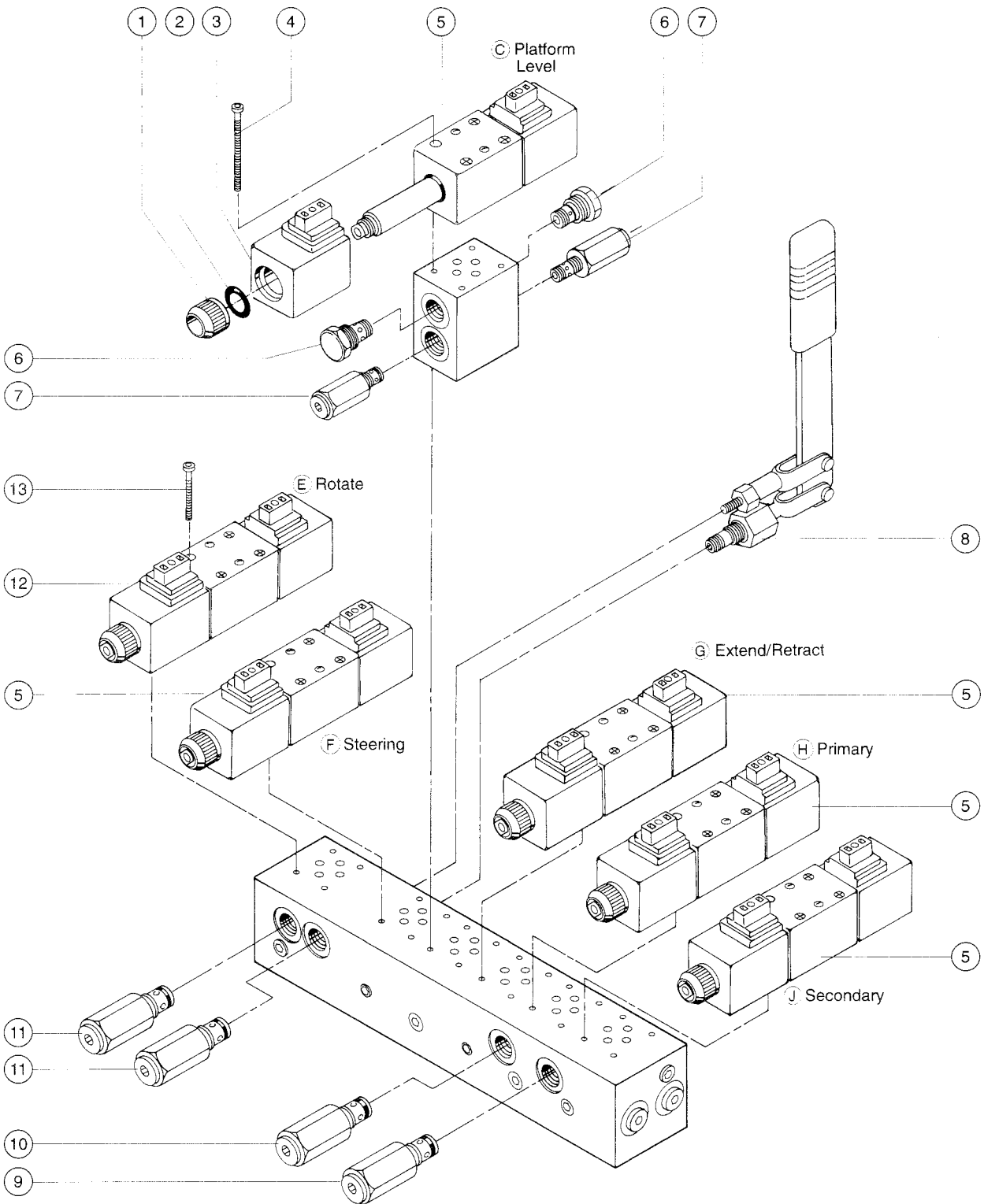
305.1 Ground Controls



305.1 Ground Controls

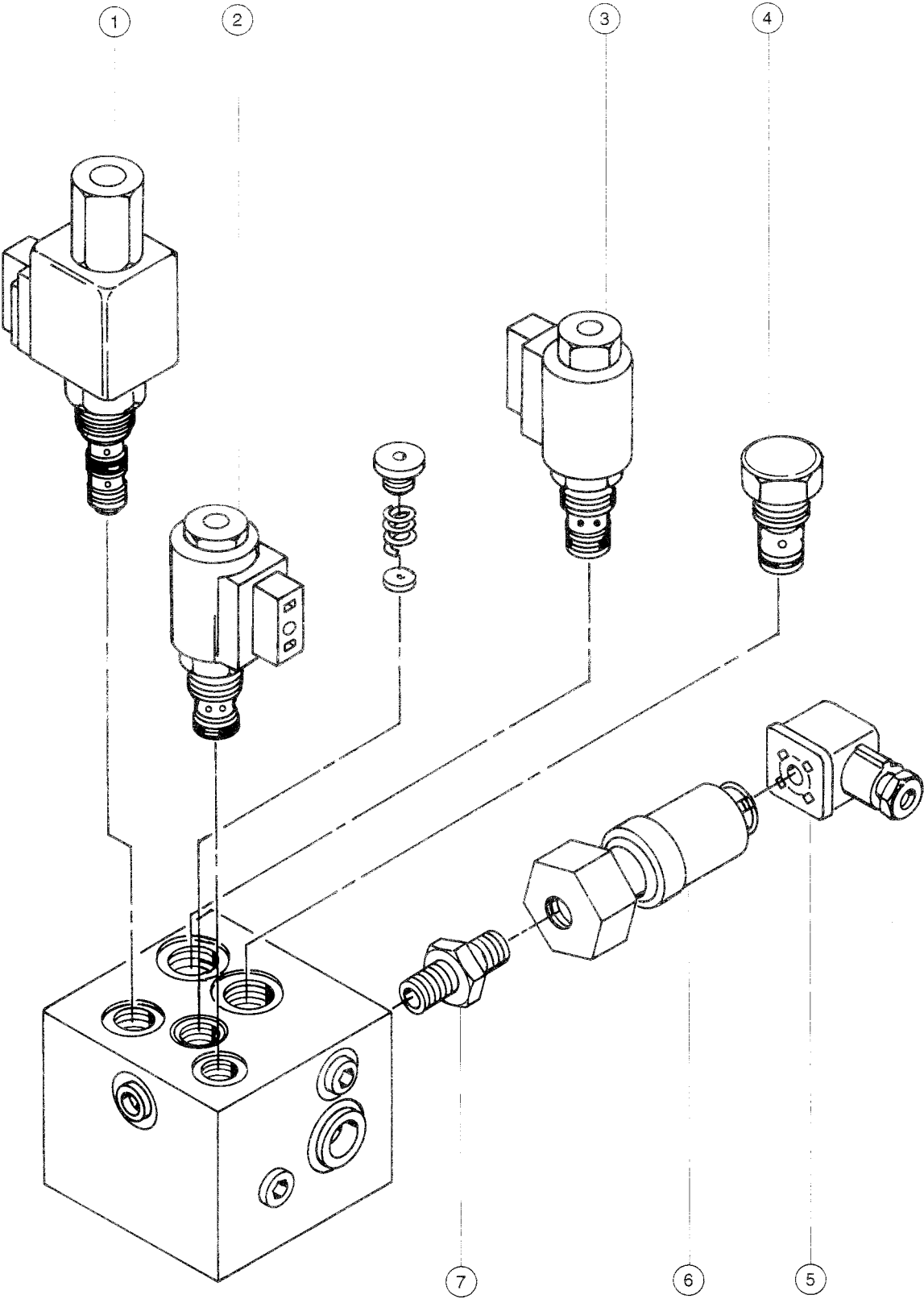
Item	Part No.	Description	Qty.
1	122512GT	KIT,KEYSWITCH SVC BB & SM BOOM	
1-	66811GT	KEYSWITCH,3POS.MNTND.DR WKEY** includes keyswitch and two keys, not included: base or contacts.	1
1-	122366GT	KEYSWITCH,CONTACTS LOCK	
2	66821GT	BASE,WITHOUT CONTACTS	1
2-	66816GT	CONTACT,N.O.***	2
3	128200GT	SWITCH TOGGLE ASSY SPDT 3P MOM includes mounting fasteners	5
4	28988GT	PANEL,SWITCH MT,W/DECALS,30/20	1
5	13471GT	COVER, AUXILIARY POWER SWITCH	1
6		CONTROL BOX,GROUND,30/20 (no longer available - contact customer service)	1
7	6090GT	SCREW, HHC, 1/4-20 X .75	3
8	6356GT	WASHER,LOCK,.25	3
9	6272GT	RIVET,STL,STL,P,.125 X .25	2
10	13511GT	RECEPTICAL,SNAP-IN (1450G1)***	1
11	18963GT	ALARM,INTERMITTENT TONE 6-30V* Does not include 72326 nut	1
11-	72326GT	NUT - PLASTIC,RING FOR ALARMS	
12	13091GT	SWITCH,TOGGLE,DPST,2POS MAINT includes mounting fasteners	1
13	5094GT	SCREW,RHM,10-32 X .5	4
14	6607GT	WASHER,LOCK,#10 PLTD	4

306.1 Function Manifold



<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
		MANIFOLD,FUNCTION (component no longer available)	
	25375GT	KIT, O-RING	
1	45913GT	NUT,DO1 VALVE	12
2	45914GT	O-RING, DO1 VALVE	12
3	223763GT	COIL WITH DE CONNECTOR use connector from old coil when replacing	12
4		Ref. Screw - SHC, 10-24 x 4 inch	12
5	146164GT	VALVE KIT,D03 includes index numbers 1-3	5
6	45543GT	VALVE,CHECK, 50 PSI	2
7	29028GT	VALVE,RELIEF	2
8	21625GT	VALVE,PUMP***	1
8	29029GT	SEAL KIT,19920 HAND PUMP	1
9	13222-2GT	VALVE,RELIEF 1000 PSI	1
10	29030GT	VALVE,RELIEF 1250 PSI	1
11	21373GT	VALVE,RELIEF 850 PSI	2
12	146166GT	VALVE,DO3 (23439)** includes index numbers 1-3	1
13		Ref. Screw - SHC, 10 x 24 x 1.125 inch	1

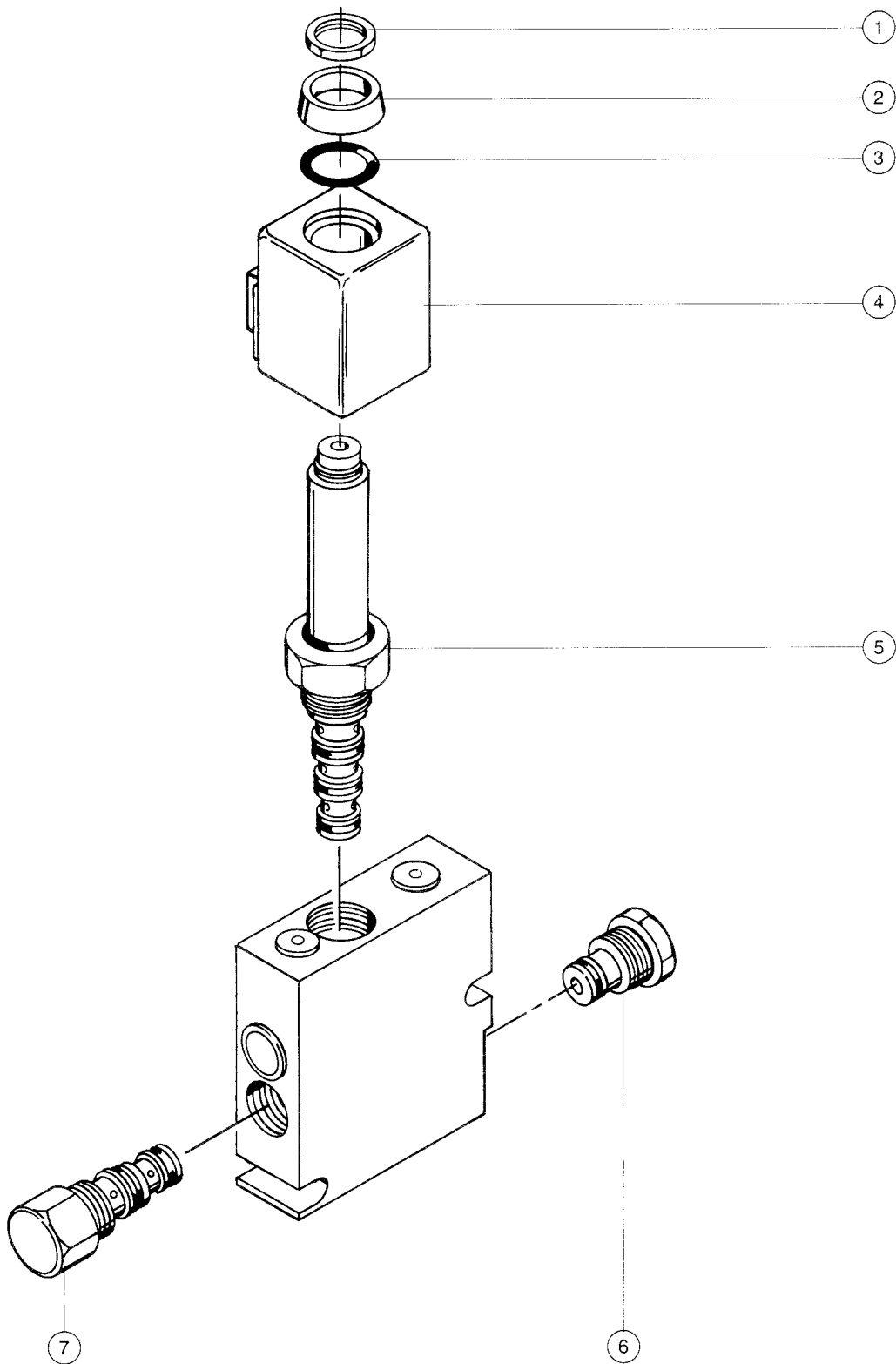
307.1 Proportional Brake Manifold



307.1 Proportional Brake Manifold

<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
	23477GT	MANIFOLD,BRAKE,Z30	
	25375GT	KIT, O-RING	
1	25034GT	VALVE,PROPORT RELIEF*** includes valve, coil and nut	1
1-	29032GT	COIL,24V SOLENOID VALVE	1
1-	62276GT	NUT, SOLENOID VALVE COIL	1
2	45544GT	VALVE SOLENOID includes valve, coil and nut	1
2-	52339GT	COIL,SOLND,W/D,20V DUAL SPADE	1
2-	52943GT	NUT, SOLENOID VALVE COIL	1
2-	74902GT	SEAL KIT, VALVE	
3	40423GT	VALVE,SOLENOID,20V includes valve, coil and nut	1
3-	52339GT	COIL,SOLND,W/D,20V DUAL SPADE	1
3-	45912GT	NUT,SOLENOID VALVE 2P3W	1
4	45543GT	VALVE,CHECK, 50 PSI	1
5	29063GT	DIN CONNECTOR	1
6		Ref. Switch, pressure (image does not match current service part) (old switch no longer available, refer to item 7)	1
7	56823GT	SWITCH,PRESS,#4MPT,600PSI F***	1

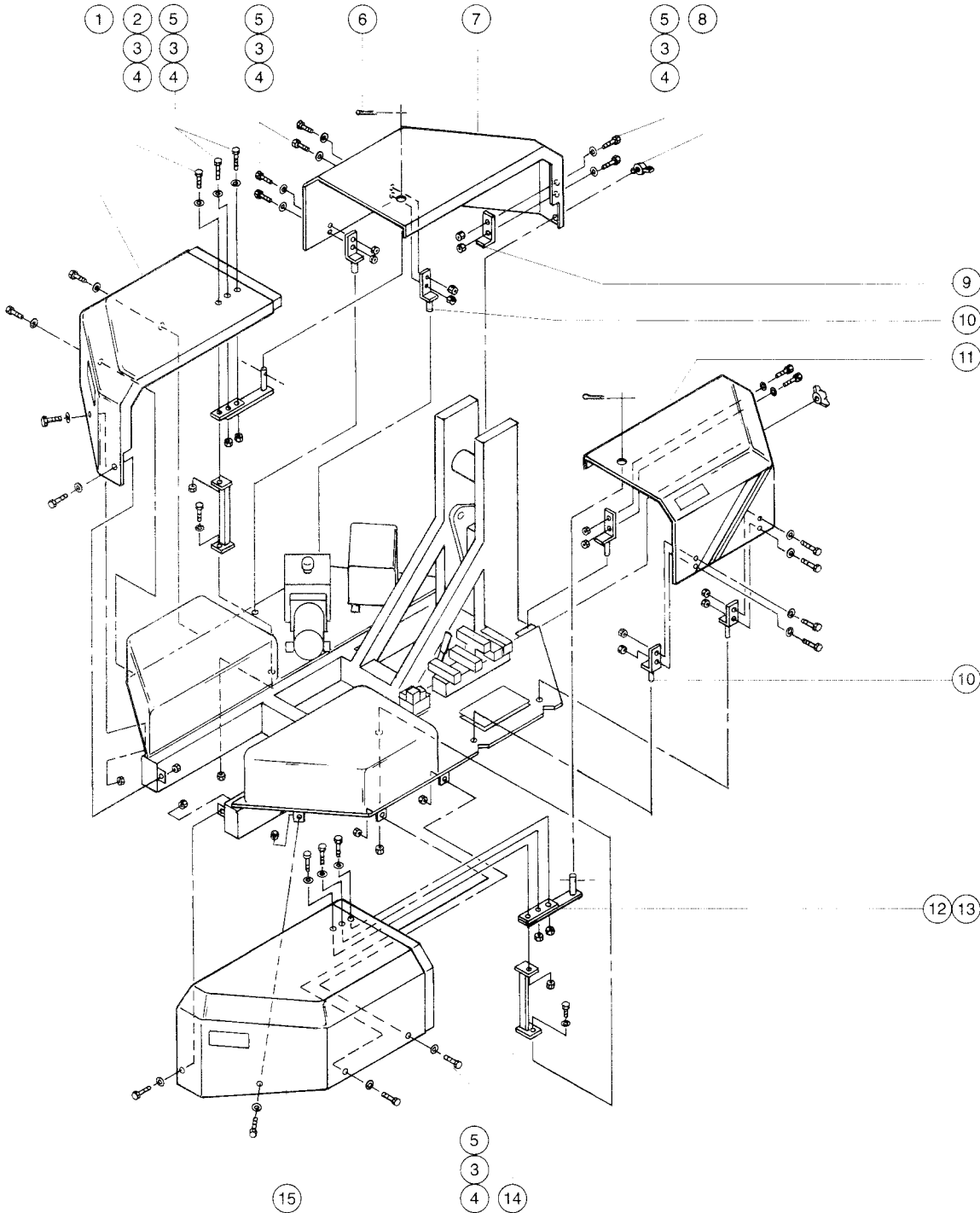
308.1 Proportional Valve Manifold



308.1 Proportional Valve Manifold

<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
		VALVE,PROPORTIONAL SOLENOID	
		no longer available; replaced by 826876	
	25375GT	KIT, O-RING	
1	45921GT	RETAINER-N.C.PROPOR.SOLENOID	1
2	45921GT	RETAINER-N.C.PROPOR.SOLENOID	1
3	45914GT	O-RING, DO1 VALVE	1
4	45919GT	COIL,N.C.PROPOR.SOLENOID,24VDC	1
5	45492GT	VALVE,NC VARIABLE ORIFICE	1
		includes index numbers 1 - 4; schematic reference R	
6		Ref. Plug	1
7		VALVE,DIFFERENTIAL SENSING Z30	1
		schematic reference Q; no longer available	

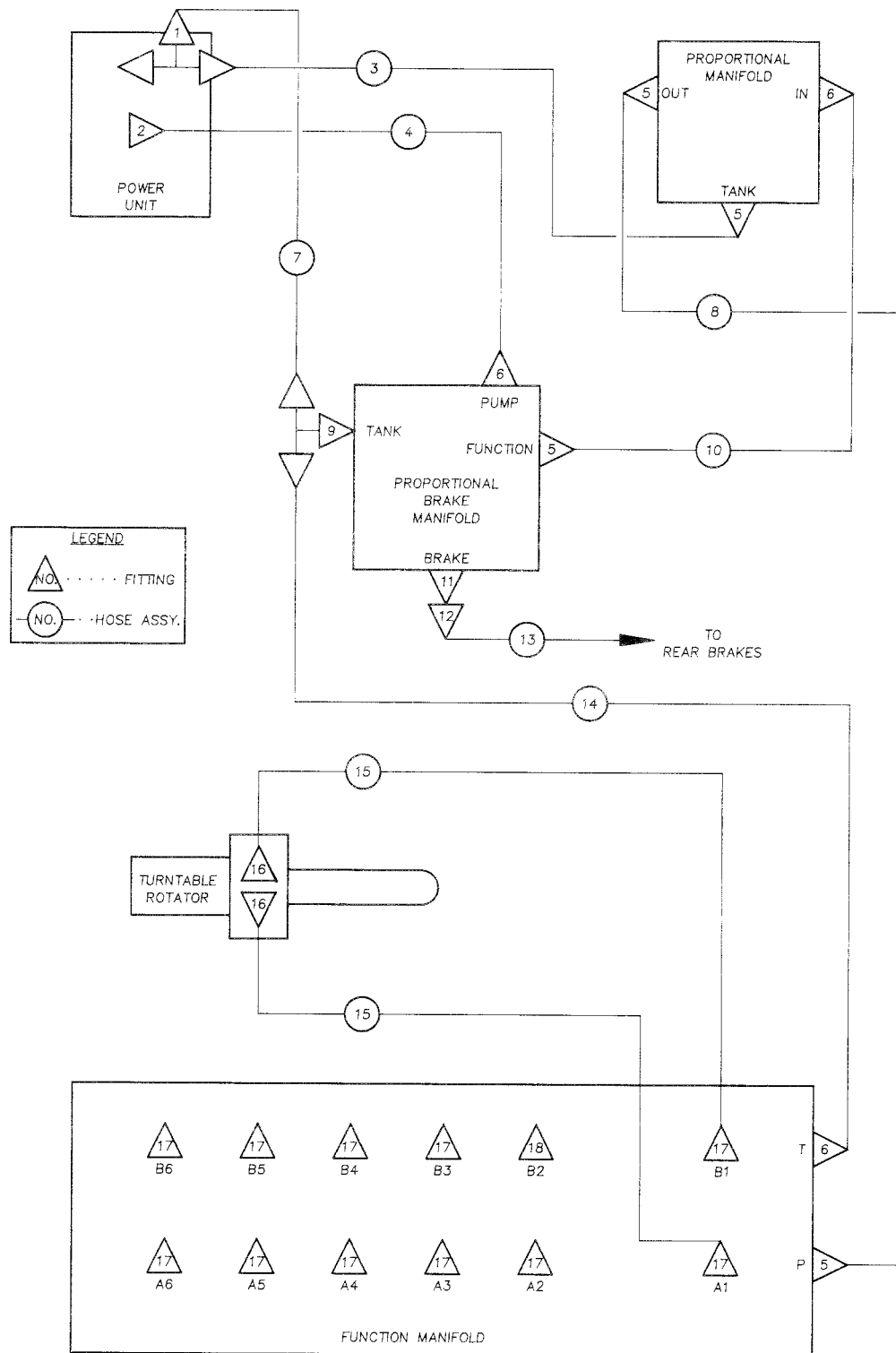
309.1 Turntable Covers



309.1 Turntable Covers

<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
1	25943GT	COVER ASSY,R.F.COUNTERWGHT"91 includes decals & mounting hardware	1
2	8915GT	SCREW,HHC,1/4-20 X 1.25 2	2
3	6638GT	WASHER, FLAT, USS, 1/4"Y 26	26
4	6091GT	NUT, NYLOCK, 1/4-20 26	26
5	6888GT	SCREW,HHC,1/4-20 X 1 24	24
6	12875GT	CLIP,HAIR PIN .125 X 3.25 2	2
7	25942GT	COVER ASSY,R.R.CHARGER "91" includes decals & mounting hardware	1
8	14634GT	NUT,WING 1/2-13 INJECT.MOLDED 2	2
9	13499GT	ANGLE-COVER SUPPT.(2 HOLES)-1" 2	2
10	13507GT	COVER LOCATOR WELDMENT 4	4
11		COVER ASSY,L.R.MANIFLD SIDE"91 includes decals & mounting hardware, (no longer available)	1
12	13508GT	COVER HOLD DOWN WELDMENT 2	2
13	21932GT	FLATBAR-COVER SUPPORT 2	2
14	13481GT	TURNTABLE COVER SUPPORT WELDMT 2	2
15	25944GT	COVER ASSY,L.F.COUNTERWGHT"91 includes decals & mounting hardware	1

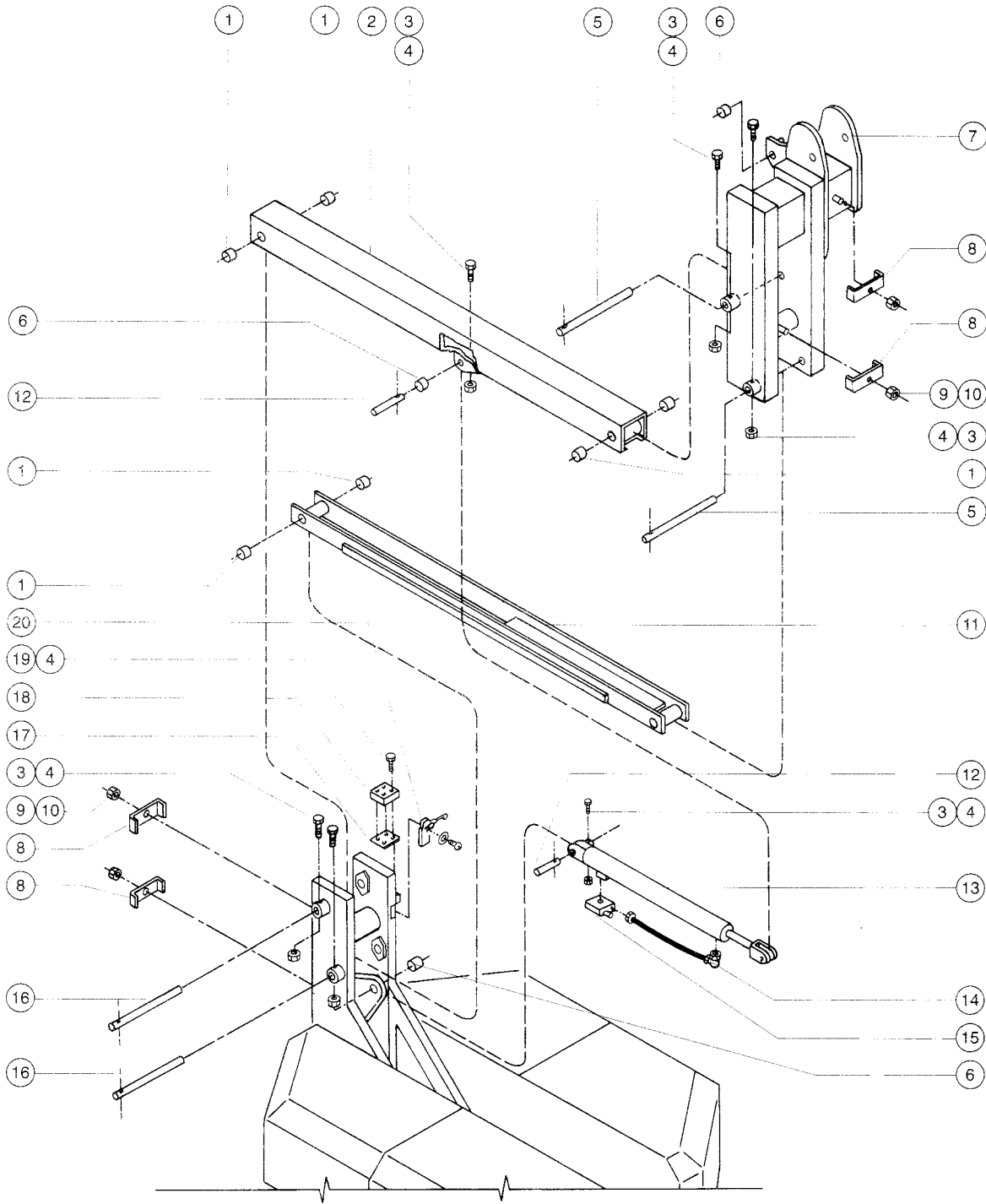
310.1 Hydraulic Hoses And Fittings - Turntable



310.1 Hydraulic Hoses And Fittings - Turntable

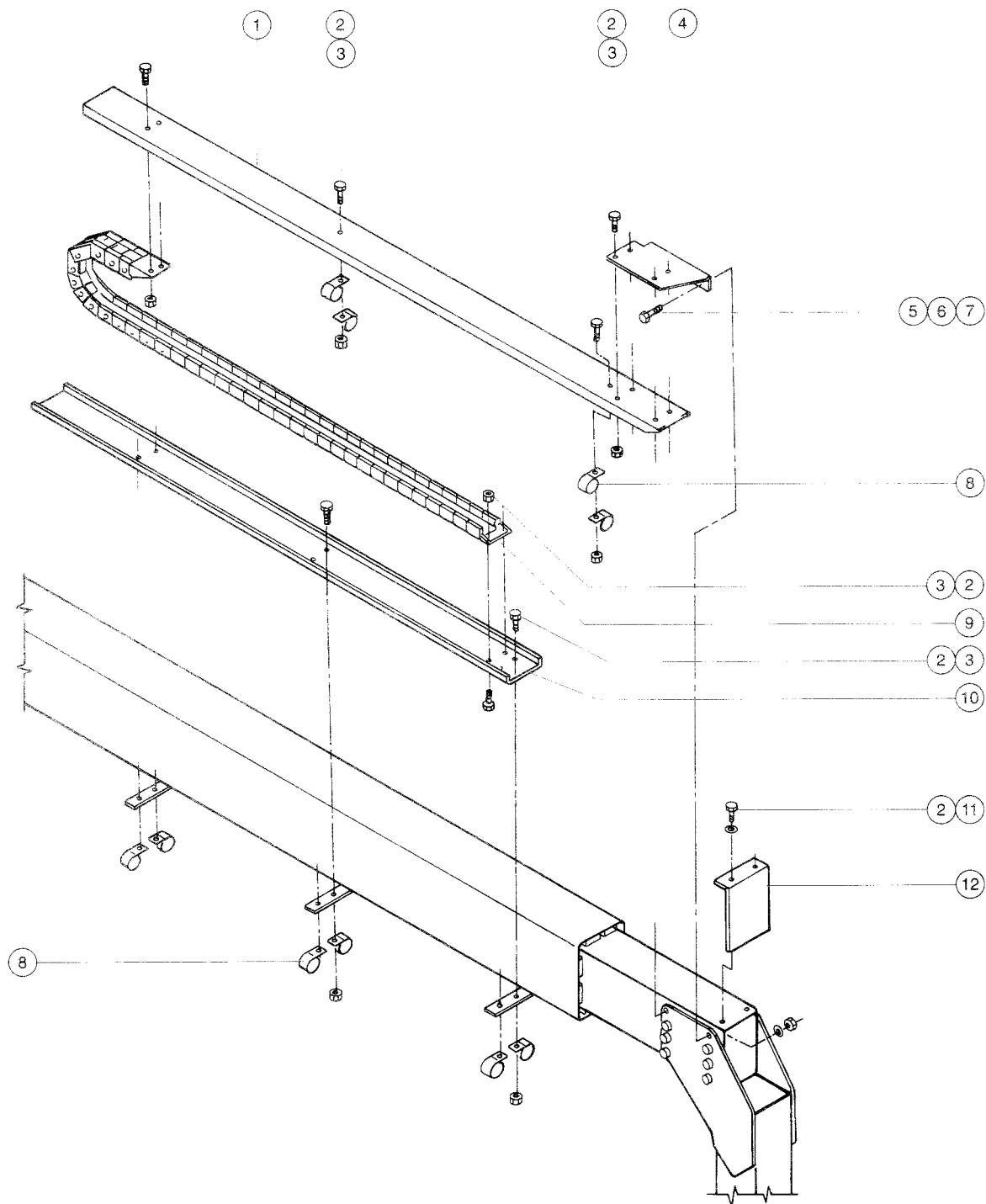
<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
1	13119GT	TEE,RUN,070428-6-6	1
2	45412GT	CONNECTOR,070120-6-6	1
3	29049GT	HOSE ASSY,31.5"	1
4	29034GT	HOSE ASSY,27.5"	1
5	45356GT	ELBOW,070220-8-6	4
6	23729GT	CONNECTOR,070102-6-8	3
7	29035GT	HOSE ASSY,27.6"	1
8	29047GT	HOSE ASSY,19.25"	1
9	45705GT	TEE,BRANCH,070429-6-6	1
10	29048GT	HOSE ASSY,20.25"	1
11	13120GT	ELBOW,070220-6-6	1
12	19631GT	REDUCER,070123-6-4	1
13	29046GT	HOSE ASSY,84.5"	1
14	29039GT	HOSE ASSY,17.5"	1
15	13522GT	HOSE ASSY,SEC-VB/B-P,31.5"	2
16	21176GT	CONNECTOR,070102-4-8	2
17	13755GT	CONNECTOR,070120-4-4	11
18	45351GT	ELBOW, 070320-4-4	1

401.1 Elevate Installation



Item	Part No.	Description	Qty.
1	13009GT	BEARING,1.25IDX1.50ODX1.50L	8
2	23482GT	ASSY.,SECONDARY BOOM,Z30/20	1
		includes index numbers 1 & 6	
3	6708GT	SCREW,HHC,3/8-16 X 2.25	6
4	4828GT	NUT,NYLOCK,3/8-16	10
5	13317GT	PIN,BOOM RISER PIVOT-15.625"	2
6	13012GT	BUSHING, 1.5 X 1.25 X 1,OILITE	3
7		RISER ASSEMBLY,30/20	1
		no longer available.(contact customer seervice)	
8	54530GT	CLAMP,HOSE,ALUMINUM	4
9	6091GT	NUT, NYLOCK, 1/4-20	4
10	6638GT	WASHER, FLAT, USS, 1/4"Y	4
11	29051GT	LINK ASSEMBLY,30/20	1
		includes 4 each index number 1	
12	13319GT	PIN,CYLINDER MOUNT,4"	2
13	13231GT	CYLINDER WELDMENT-BOOM LIFTING	1
13	49329GT	SEAL KIT,UNIVERSAL(LIFT CYL)**	1
14		Hydraulic Hoses and Fittings	1
		refer to section 404.1	
15	24646GT	MANIFOLD + VALVE CP11228	1
15	29220GT	VALVE,COUNTERBALANCE	1
16	13391GT	PIN,BOOM PIV.TURN.RISE-13.75"	2
17	13875GT	BOOM REST PAD (.25 MATL)---4"	1
18	13496GT	BOOM REST PAD (.5 MATL)---4"	1
19	6435GT	SCREW,FHM,3/8-16 X 1.25	4
20	88356-127J5GT	SWITCH,LIMIT,W/6.25"SPRING ARM	1
20-	106433GT	LS SPRING WAND (ZCY91)	
20-	19491GT	CONTACTOR,LIMIT SWITCH	

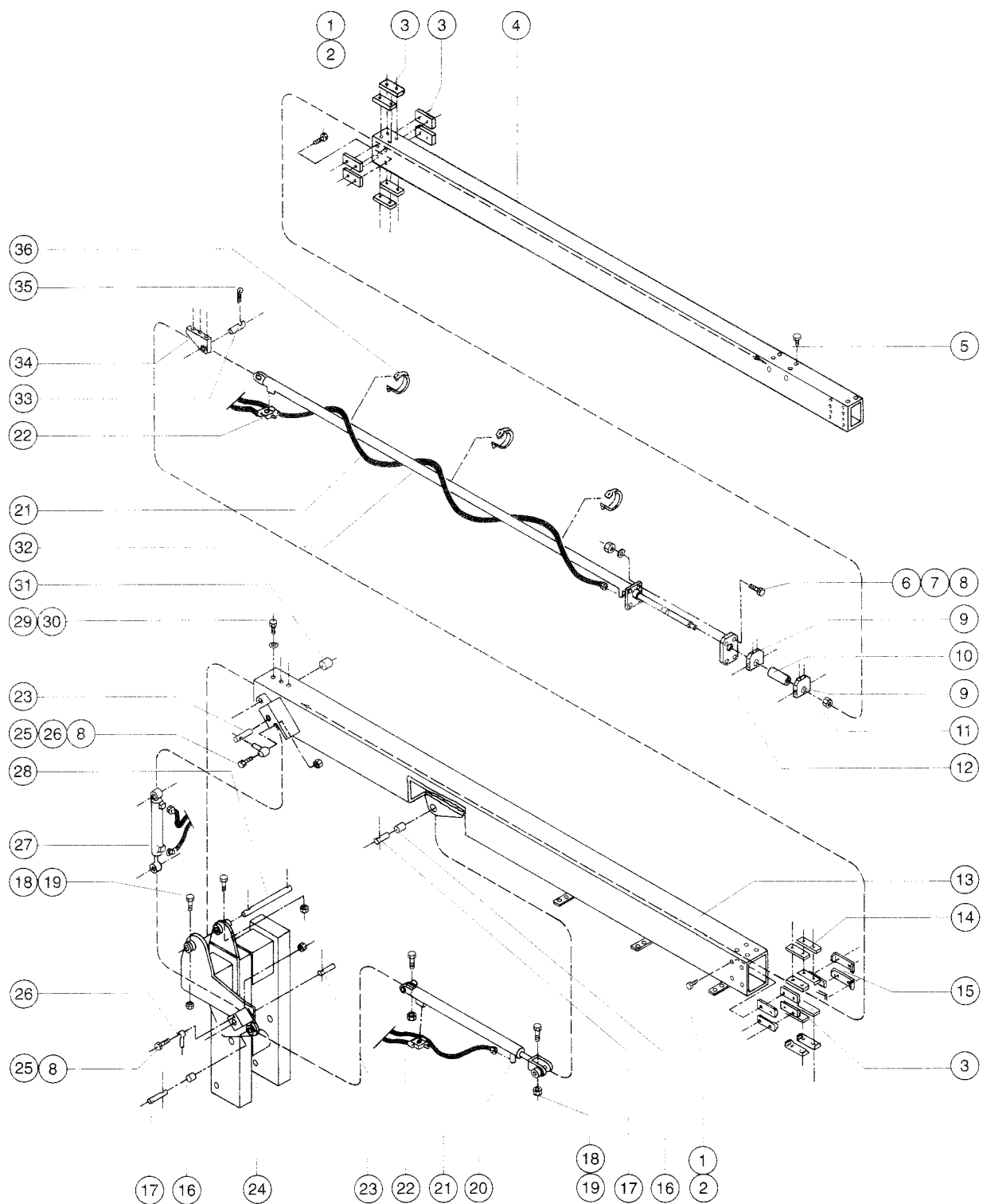
402.1 Cable Track Installation



402.1 Cable Track Installation

<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
1	13714PGT	CHANNEL,UPR-PLAS.TRACK-(BLUE)	1
2	6888GT	SCREW,HHC,1/4-20 X 1	14
3	6091GT	NUT, NYLOCK, 1/4-20	12
4	23354PGT	ANGLE,CABLE TRACK MNT.,PAINTED	1
5	6019GT	SCREW,HHC,3/8-16 X 1.25 GRD 5	2
6	5397GT	WASHER,FLAT,USS,5/16",Y	2
7	4828GT	NUT,NYLOCK,3/8-16	2
8	6833GT	CLAMP,0.50,#8 X 1/4,RUB CUSH	10
9	13630GT	TRACK,PLASTIC CABLE,35 LINK	1
9-	T107819GT	REPAIR KIT,CABLE TRACK,7-LINK	
10	13713PGT	CHANNEL,LWR-PLAS.TRACK-(BLUE)	1
11	6638GT	WASHER, FLAT, USS, 1/4"Y	2
12	13804GT	COVER,PRI.EXTENSION TUBE-4.38"	1

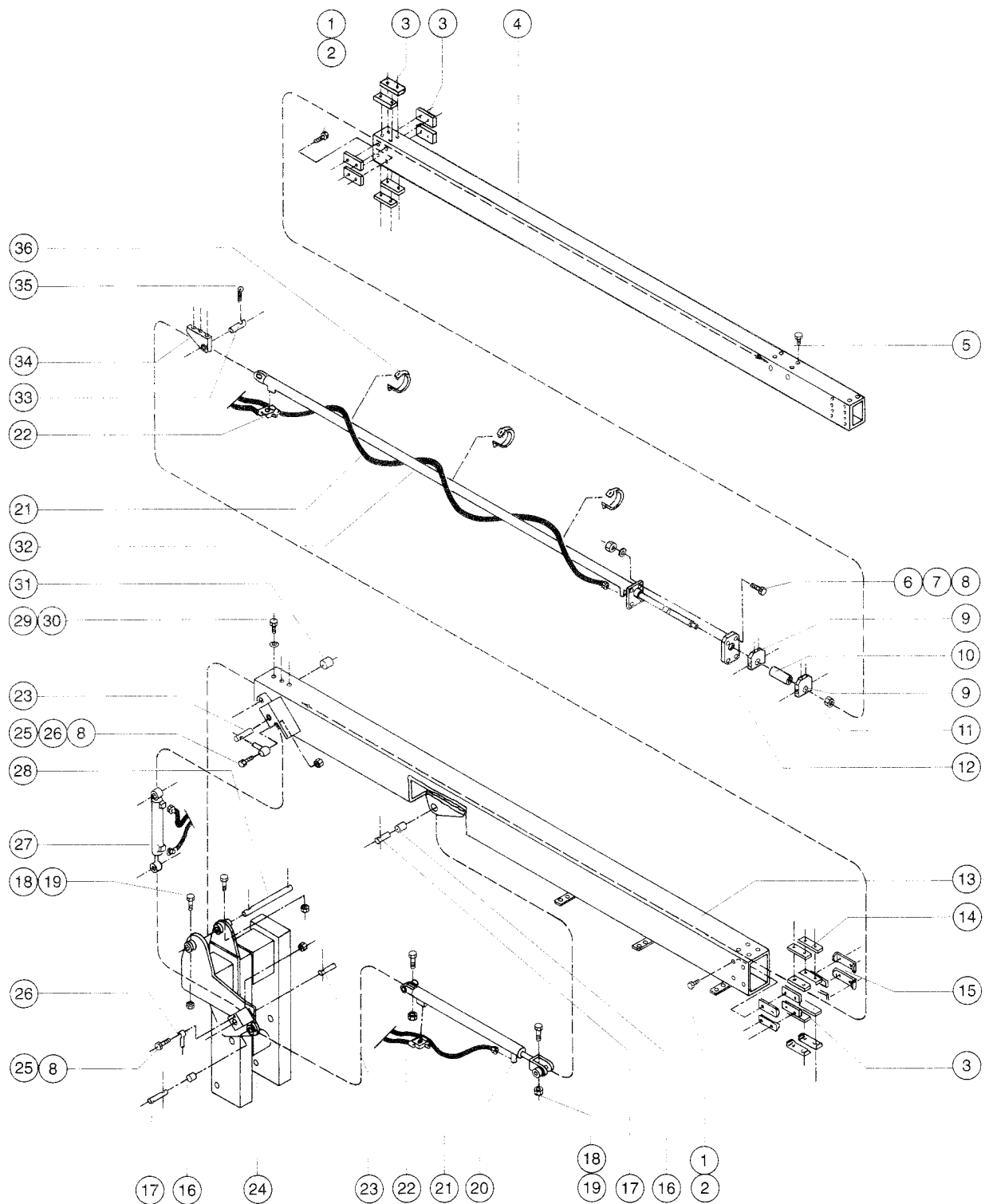
403.1 Primary And Extension Booms



403.1 Primary And Extension Booms

Item	Part No.	Description	Qty.
1	8914GT	SCREW,HHC,1/4-20 X .625	32
2	6356GT	WASHER,LOCK,.25	32
3	45209GT	WEAR PAD,4X2X.5 W/INSERT***	16
4	23287GT	TUBE,BOOM EXTENSION	1
5	8514GT	SCREW,FHS,1/4-20 X .75	12
6	6145GT	SCREW,HHC,1/4-20 X 1.5	4
7	6638GT	WASHER, FLAT, USS, 1/4"Y	4
8	6091GT	NUT, NYLOCK, 1/4-20	6
9	13340GT	PRIMARY CYLINDER MOUNT	2
10	13445GT	SPACER-PRI.EXT.CYL.MOUNT 5"	1
11	13001GT	NUT,NYLOCK,5/8-18	1
12	45852GT	GUIDE-PRI.EXT.CYL.ROD(500#)-6"	1
13	29056GT	PRIMARY BOOM ASSY,30/20 includes index numbers 16 & 31	1
14	45382GT	SHIM,PRIMARY BOOM,.052 THK.	8
15	45465GT	SHIM,PRIMARY BOOM,.022 THICK	8
16	13012GT	BUSHING, 1.5 X 1.25 X 1,OILITE	2
17	13319GT	PIN,CYLINDER MOUNT,4"	2
18	6708GT	SCREW,HHC,3/8-16 X 2.25	4
19	4828GT	NUT,NYLOCK,3/8-16	4
20	13231GT	CYLINDER WELDMENT-BOOM LIFTING	1
20	49329GT	SEAL KIT,UNIVERSAL(LIFT CYL)**	1
21		Hydraulic Hoses And Fittings refer to section 404.1	1
22	24646GT	MANIFOLD + VALVE CP11228	2
22	29220GT	VALVE,COUNTERBALANCE	2
23	23709GT	PIN,1.0 X 4.50"LG,Z30	2
24		RISER ASSEMBLY,30/20 no longer available.(contact customer seervice)	1
25	8915GT	SCREW,HHC,1/4-20 X 1.25	2
26	825020GT	ROD END, .25 X 2.75, ZAG	2

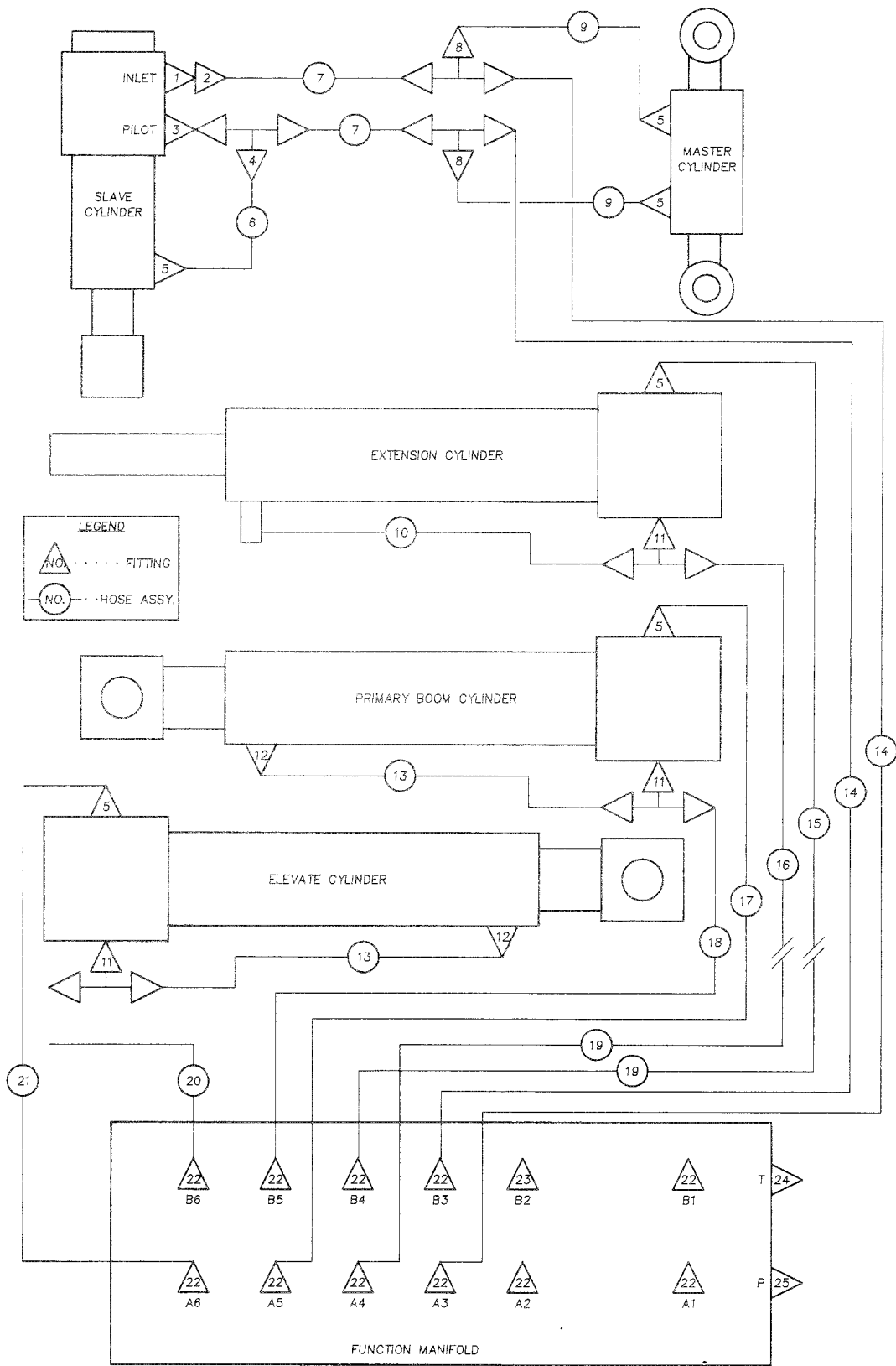
403.1 Primary And Extension Booms



403.1 Primary And Extension Booms

<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
27	13629GT	CYLINDER,2 X 8.25 X 15.19 %%	1
27	49327GT	SEAL KIT,UNIVERSL(MASTER CYL)*	1
27	13852GT	VALVE ASSY,BLEED***	1
28	13318GT	PIN-PRIMARY BOOM PIVOT-11.375"	1
29	94195GT	SCREW,HHC,3/8-16 X .75,GR 8	3
30	6021GT	WASHER,LOCK, .375	3
31	13009GT	BEARING,1.25IDX1.50ODX1.50L	2
32	13649GT	CYLINDER,HYD-1.5 X 84 X 114.50	1
32-	49326GT	SEAL KIT,UNIVERSAL(EXT CYL)**	1
33		PIN-PRIMARY EXT.CYL.MOUNT,2"	1
		no longer available	
34	13408GT	LUG-EXTENSION CYLINDER	1
35	5361GT	PIN,COTTER, .125 X 1.5	2
36	28443GT	CABLE TIE, 11.5" BLACK	3

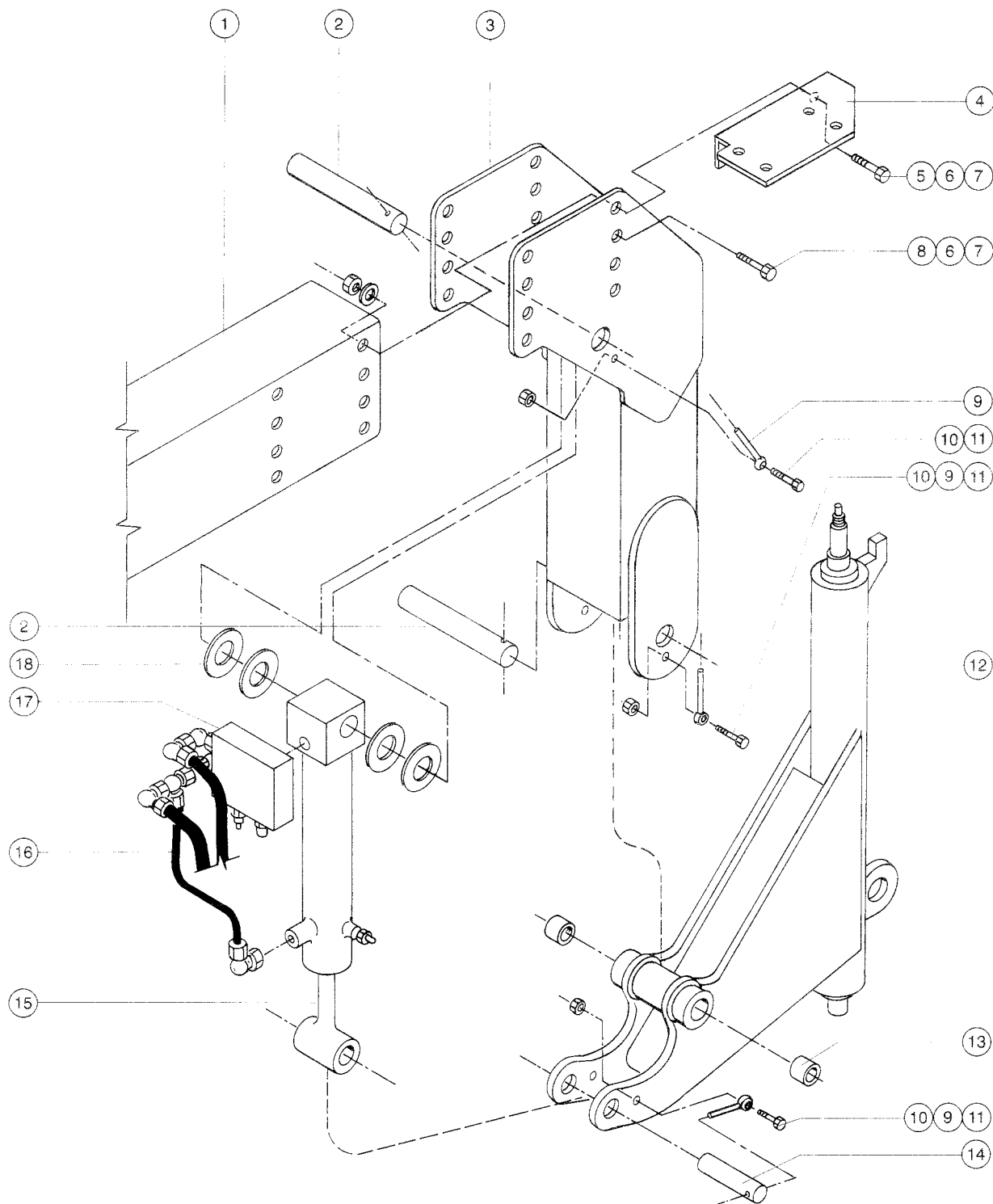
404.1 Hydraulic Hoses And Fittings - Elevate Installation



404.1 Hydraulic Hoses And Fittings - Elevate Installation

<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
1	12342GT	CONNECTOR,070120-6-4	1
2	45415GT	ELBOW,070221-4-4	1
3	13921GT	ELBOW, 07022-4-4	1
4	13757GT	TEE,RUN,070432-4	1
5	12340GT	ELBOW,070220-4-6	6
6	24648GT	TUBE ASSY,HYD.	1
7	29038GT	HOSE ASSY,306.5"	2
8	8342GT	TEE,UNION,070401-4	2
9	29040GT	HOSE ASSY,36.5"	2
10	13525GT	HOSE ASSY,EXTENSION CYL-100.7"	1
11	25628GT	TEE,BRANCH,070429-4-4	3
12	13114GT	ELBOW,070202-4-6	2
13	29037GT	HOSE ASSY,22.9"	2
14	29045GT	HOSE ASSY,187.6"	2
15	13524GT	HOSE ASSY,EX.RE.B,V-VBA,202.6"	1
16	29044GT	HOSE ASSY,204.6"	1
17	29042GT	HOSE ASSY,181.9"	1
18	13519GT	HOSE ASSY,PRI-VB/A-V,-179.9"	1
19	29041GT	HOSE ASSY,12.4"	2
20	19154GT	HOSE ASSY-29.9"	1
21	29043GT	HOSE ASSY,31.9"	1
22	13755GT	CONNECTOR,070120-4-4	11
23	45351GT	ELBOW, 070320-4-4	1
24	23729GT	CONNECTOR,070102-6-8	1
25	45356GT	ELBOW,070220-8-6	1

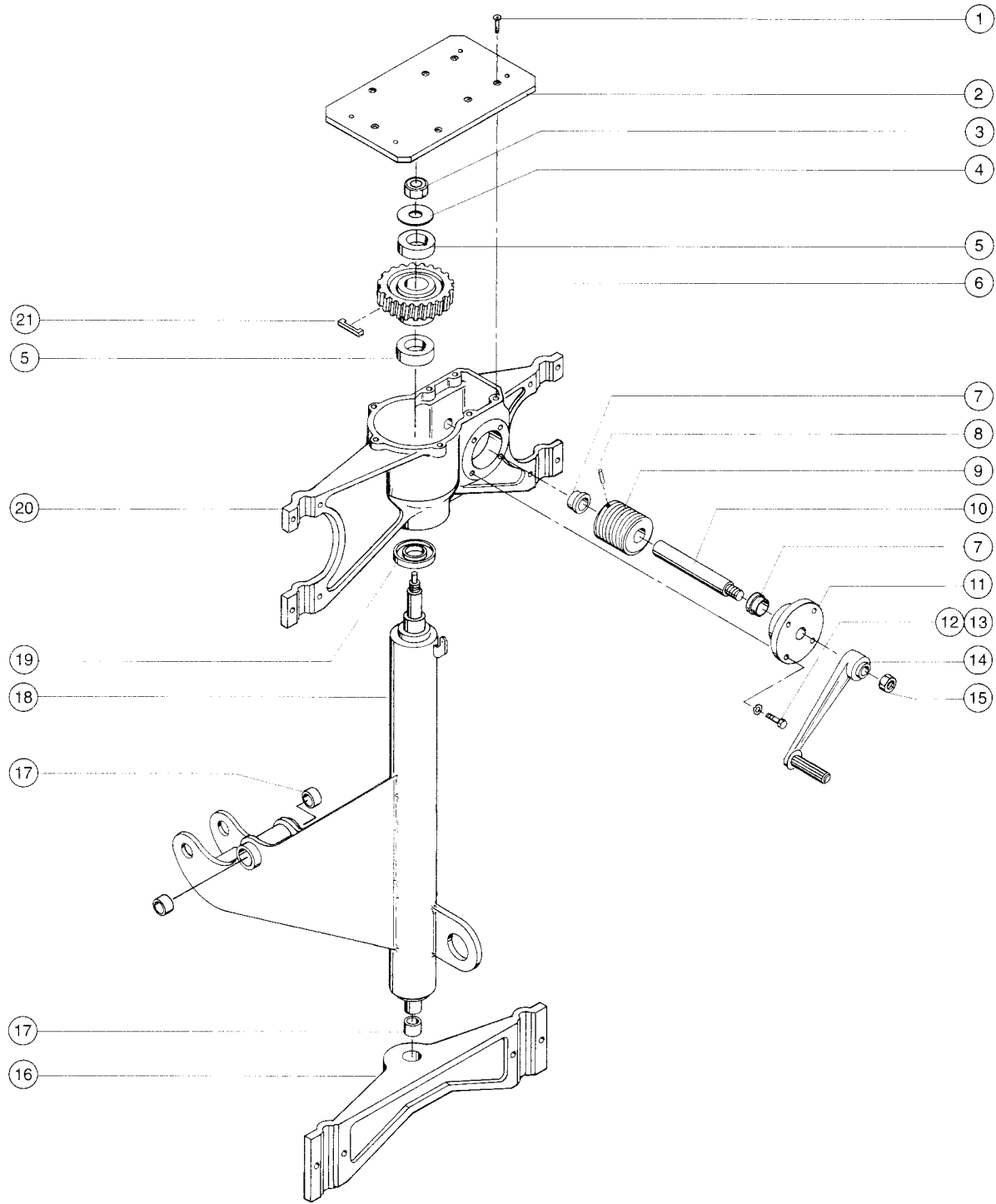
501.1 Platform Leveling Installation



501.1 Platform Leveling Installation

<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
1	23287GT	TUBE,BOOM EXTENSION	1
2	25065GT	PIN, 1.00 DIA X 6.00LG, 1 HOLE	2
3	23285GT	WELDMENT,PIVOT,BOOM EXTENSION	1
4	23354PGT	ANGLE,CABLE TRACK MNT.,PAINTED	1
5	6019GT	SCREW,HHC,3/8-16 X 1.25 GRD 5	4
6	5397GT	WASHER,FLAT,USS,5/16",Y	16
7	4828GT	NUT,NYLOCK,3/8-16	16
8	77692GT	SCREW,HHC,3/8-16 X 1 GRD 8	12
9	825020GT	ROD END, .25 X 2.75, ZAG	3
10	6888GT	SCREW,HHC,1/4-20 X 1	3
11	6091GT	NUT, NYLOCK, 1/4-20	3
12	29223GT	PLATFORM PIVOT ASSY,30/20 includes 2 each index number 13	3
13	13615GT	BEARING,GARLOCK,16DU08	2
14	23708GT	PIN,1.0 X 3.75"LG.,Z30	1
15	16251GT	CYLINDER,HYD,2 X 8 X 14.94	1
15	49327GT	SEAL KIT,UNIVERSL(MASTER CYL)*	1
15	13852GT	VALVE ASSY,BLEED***	2
16		Hydraulic Hoses and Fittings	2
		refer to section 404.1	
17	24645GT	VALVE,HOLDING W/BLEEDER	1
17	29221GT	VALVE,COUNTERBALANCE	1
17	29222GT	VALVE,NEEDLE	1
18	13775GT	WASHER,FLAT,1.063 X 2 X .134	4

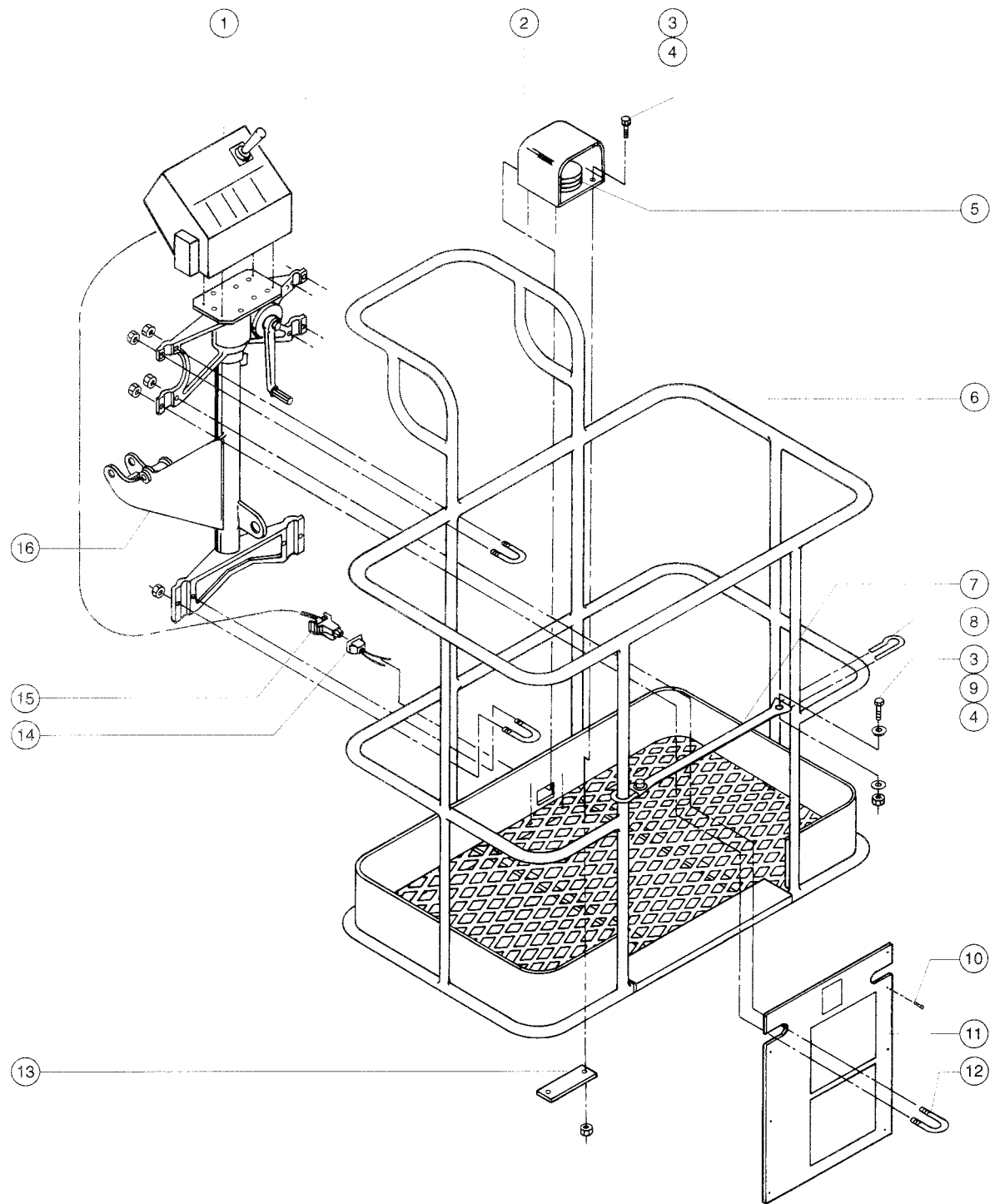
502.1 Platform Rotator Installation



502.1 Platform Rotator Installation

Item	Part No.	Description	Qty.
	16592GT	GEARBOX ASSY-W/PLAT.LEVELING includes index numbers 1-15, 18-21	
1	8514GT	SCREW,FHS,1/4-20 X .75	7
2	16591GT	GEARBOX COVER-PLAT.PIVOT W/LVL	1
3	19331GT	NUT,LP NYLOCK,1-12	1
4	22036GT	DISC SPRING-2.50 X 1.063	1
5	12900GT	CLUTCH COLLAR%%	2
6	13610GT	WORM GEAR,R.H.PER GENIE DWG	1
7	13612GT	BUSHING,FLANGE .875 X 1 X .625	2
8	10665GT	PIN,ROLL,.25 X 1.5***	1
9	13611GT	WORM,RIGHT HAND	1
10	35831GT	WORM & WORM SHAFT ASSY-SERV***	1
11	13681GT	FLANGE-BEARING	1
12	13002GT	SCREW,HHC,5/16-18 X 1 GR5	4
13	13783GT	WASHER,STAR,INTERNAL,.313	4
14	13869GT	WINCH HANDLE ASSY-(LL/BOOM)**	1
15	6086GT	NUT,LP NYLOCK,1/2-13	1
16	13781GT	PIVOT CASTING, PLAT. ROTATE	1
17	13615GT	BEARING,GARLOCK,16DU08	3
18	29223GT	PLATFORM PIVOT ASSY,30/20	1
		includes 2 each index number 17	
19	13614GT	SEAL, OIL,470094 PLAT.GEARBOX	1
20	13782GT	GEARBOX CASTING, PLAT.ROTATE%%	1
21	13708GT	KEY-CLUTCH COLLAR	1

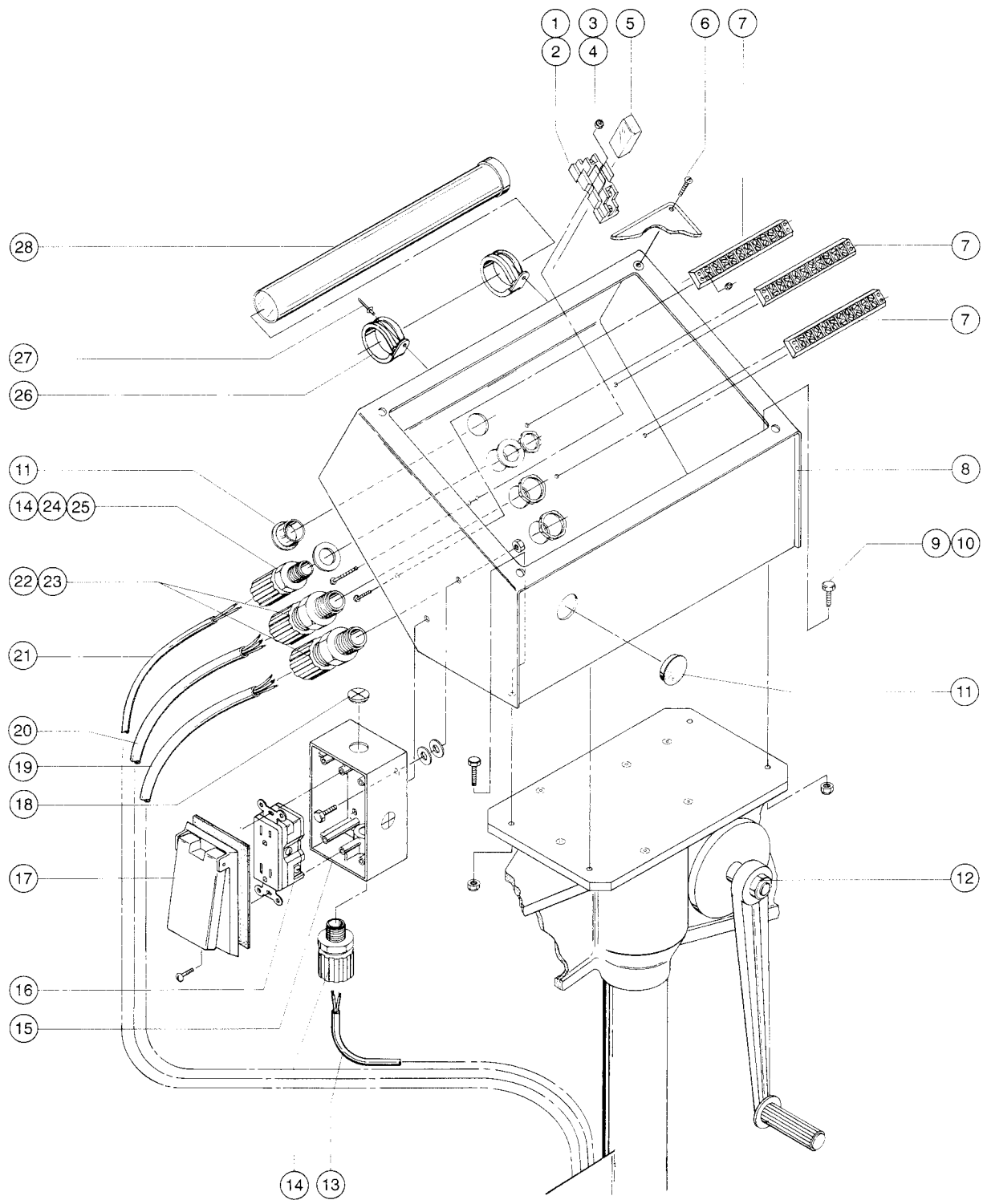
503.1 Platform Installation



503.1 Platform Installation

Item	Part No.	Description	Qty.
1		Platform Controls refer to sections 504.1 and 505.1	
2	30807PGT	FOOTSWITCH HOUSING,PAINTED***	1
3	6888GT	SCREW,HHC,1/4-20 X 1	6
4	6091GT	NUT, NYLOCK, 1/4-20	6
5	13482GT	FOOT SWITCH*** includes fasteners	1
5	20262GT	MICROSWITCH,13482 FOOTSWITCH	1
6	24201GT	PLAT. ASSY,Z30/20-STEEL (1990) includes index numbers 7 - 11	1
6	24862GT	PLATFORM WELDMENT,STEEL-DOMEST includes index number 7	1
7	102992GT	SLIDING MIDRAIL KIT,PTD includes index numbers 3,4,8 and 9	1
7	53819GT	TUBE,SLIDING MIDRAIL,20.69 IN	1
8	12443GT	MIDRAIL GUIDE (HOOK)	2
9	6638GT	WASHER, FLAT, USS, 1/4"Y	4
10	6272GT	RIVET,STL,STL,P,.125 X .25	8
11	29059GT	DECAL PLATE W/DECALS,Z30/20	1
12	6550GT	U-BOLT,3/8 X 1 YZ	6
13	13840GT	FOOT SWITCH MOUNTING PLATE-6"	1
14	45881GT	CONNECTOR ASSEMBLY-FOOTSWITCH	1
15	29060GT	FOOTSWITCH WIRE ASSY,Z30/20	1
16		Platform Rotator Installation refer to section 502.1	1

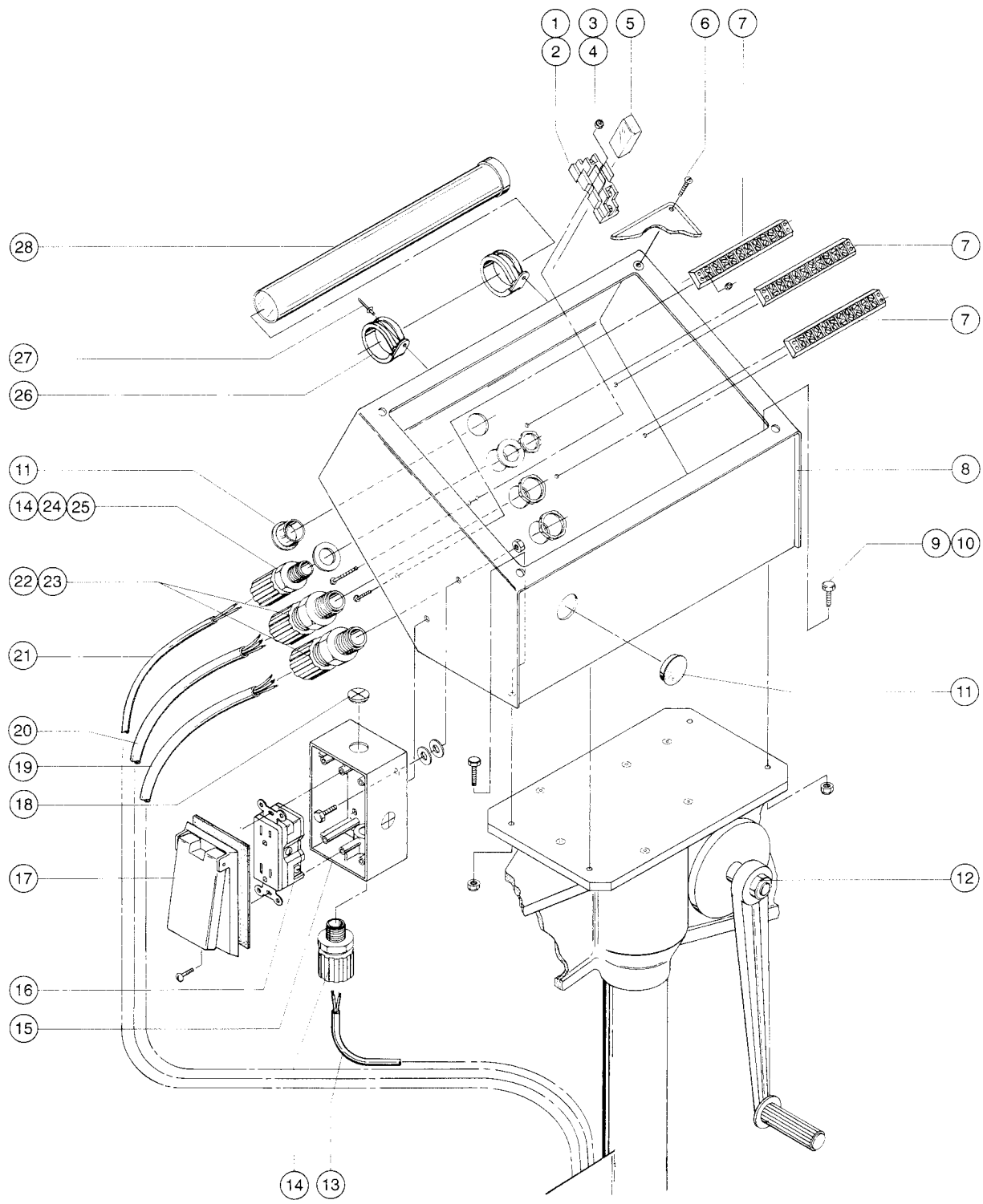
504.1 Platform Controls - Internal View



504.1 Platform Controls - Internal View

Item	Part No.	Description	Qty.
1	20813GT	SOCKET,RELAY	1
2	24343GT	RELAY HOLD DOWN	2
3	18605GT	NUT, NYLOCK, 8-32	2
4	49821GT	SCREW,PHILLIPS,PHM,8-32 X 1.25	2
5	20812GT	RELAY,SPDT,24V	1
6	45645GT	SCREW,RHM,8-32 X .75	4
7	13098GT	TERMINAL STRIP,10 POLE	3
8	45256PGT	CNTRL BOX WLD,Z45-PNTD	1
9	8915GT	SCREW,HHC,1/4-20 X 1.25	4
10	6091GT	NUT, NYLOCK, 1/4-20	4
11	45385GT	PLUG,NYLON 1.12 BLACK DOMED	2
12		Platform Rotator Installation refer to section 502.1	2
13	43956GT	WIRE CABLE, 14/GA/3 CON. TPE JKT*	570 in ch es
14	7056GT	CONN, SQZ, 1/2NPT, 0.38-0.50,SM	2
15	45451GT	T-BOX-DRILLED	1
16	13585GT	OUTLET 110V	1
16	19975GT	RECEPTACLE - BRITISH, 110V not shown	1
17	45437GT	COVER,GFCI,WEATHERPROOF includes mounting fasteners	1
18	8843GT	COVER,KNOCK OUT HOLE,4 PER BAG	3
19	1544GT	CONTROL CABLE,16/12,(SDN),BULK	570 in ch es
20	35934GT	WIRE CABLE,18/19 CON.TPRJKT	570 in ch es
21	29060GT	FOOTSWITCH WIRE ASSY,Z30/20	1
22	12960GT	CABLE SQUEEZE CONN.,XTRA LRG	2
23	14041GT	LOCKNUT,ELECTRIC,3/4"	2
24	11855GT	WASHER,SHIM,SST,.825X1.25X.015	2
25	6935GT	CONN, SQZ, 1/2NPT, LOCKNUT	1

504.1 Platform Controls - Internal View

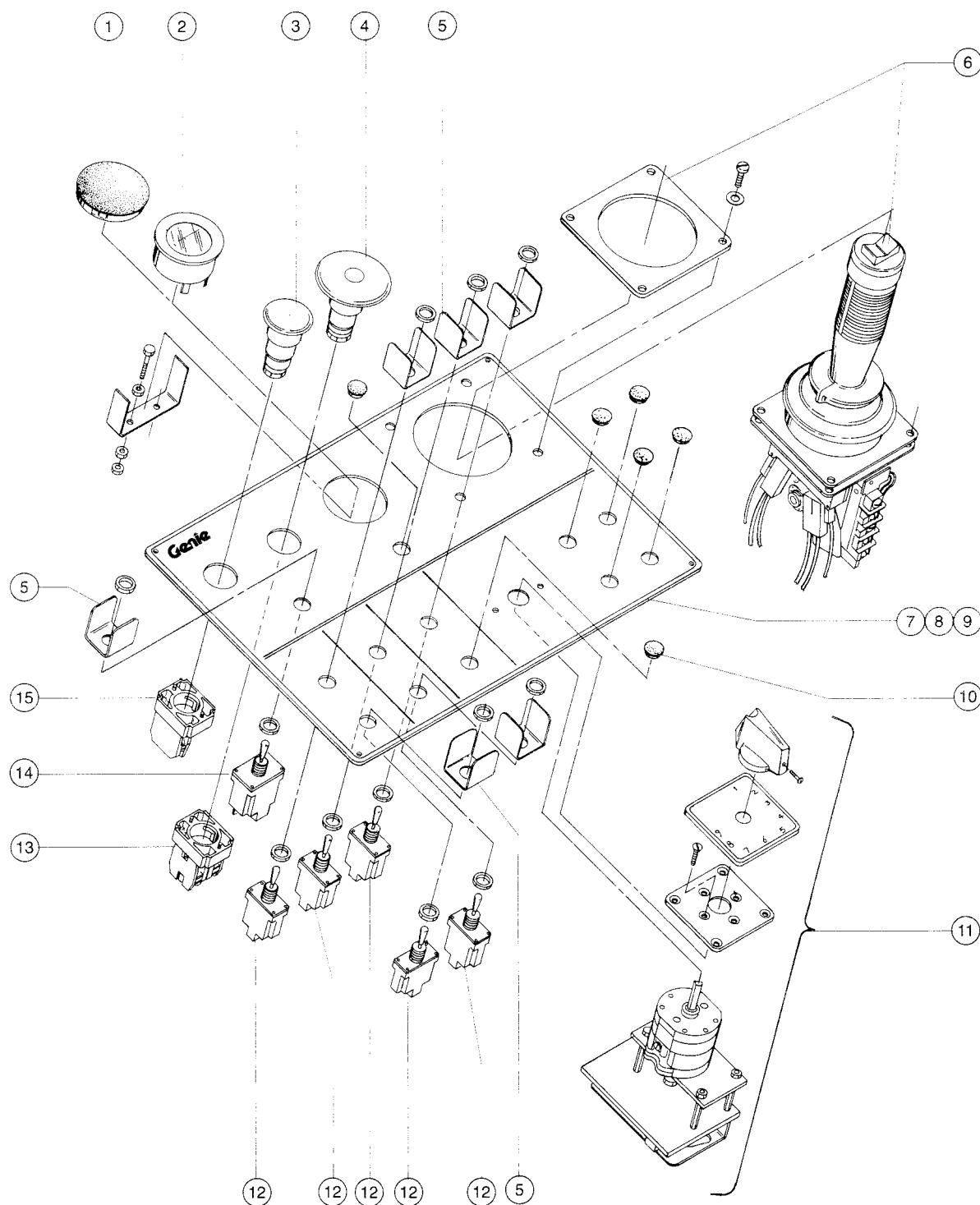


504.1 Platform Controls - Internal View

<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
26	6653GT	CLAMP, 1.88, #30 X 1/4, RUB CUSH	2
27	6271GT	RIVET,STL,STL.MAN,P,.25 X .25	2
28	6600GT	INSTRUCT.TUBE W/CAPS-1.75 X 12	1
28	31822GT	CAP,INSTRUCTION TUBE (RED)	1



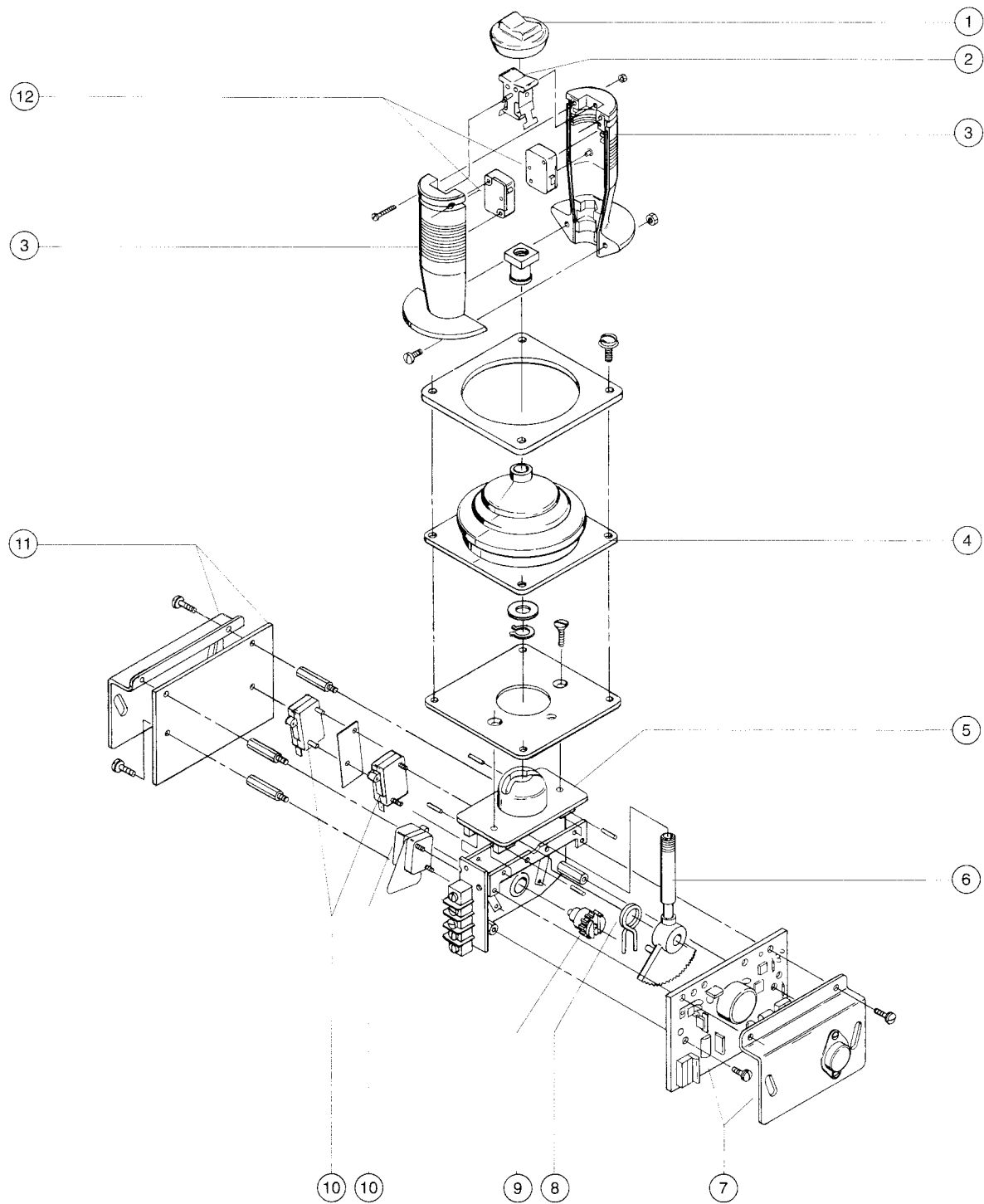
505.1 Platform Controls - External View



505.1 Platform Controls - External View

<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
1	45840GT	PLUG,NYLON 2.00 BLACK DOMED	1
2	237145GT	IND,BAT CHARGE,48V LEAD-ACID	1
		includes mounting brackets	
3	122513GT	KIT,HORN SVC BB&SM BOOM	1
		required ONLY for first time replacement	
4	122514GT	KIT,ESTOP SVC BB&SM BOOM	1
		required ONLY for first time replacement	
4-	66812GT	BUTTON,PUSH,RED MUSHROOM HEAD	
5	45105GT	GUARD,TOGGLE SWITCH	6
6	42032GT	JOYSTICK,CNTRLLR SINGLE BRD***	1
7	42071GT	PANEL,PLATFORM CONTROL BOX	1
8	43035GT	DECAL,PLAT.CONTROL BOX,Z30	1
9	23060GT	GASKET,CONTROL BOX	1
10	45384GT	PLUG,NYLON .50 BLACK DOMED	6
11	36557GT	ROTATIONAL CONTROLLER,24V***	1
12	128200GT	SWITCH TOGGLE ASSY SPDT 3P MOM	5
		includes mounting fasteners	
13	66821GT	BASE,WITHOUT CONTACTS	1
13-	66818GT	CONTACT,NC	2
14	13091GT	SWITCH,TOGGLE,DPST,2POS MAINT	1
		includes mounting fasteners	
15	66815GT	BASE, W/1 N.O. CONTACTS***	1
15-	66816GT	CONTACT,N.O.***	

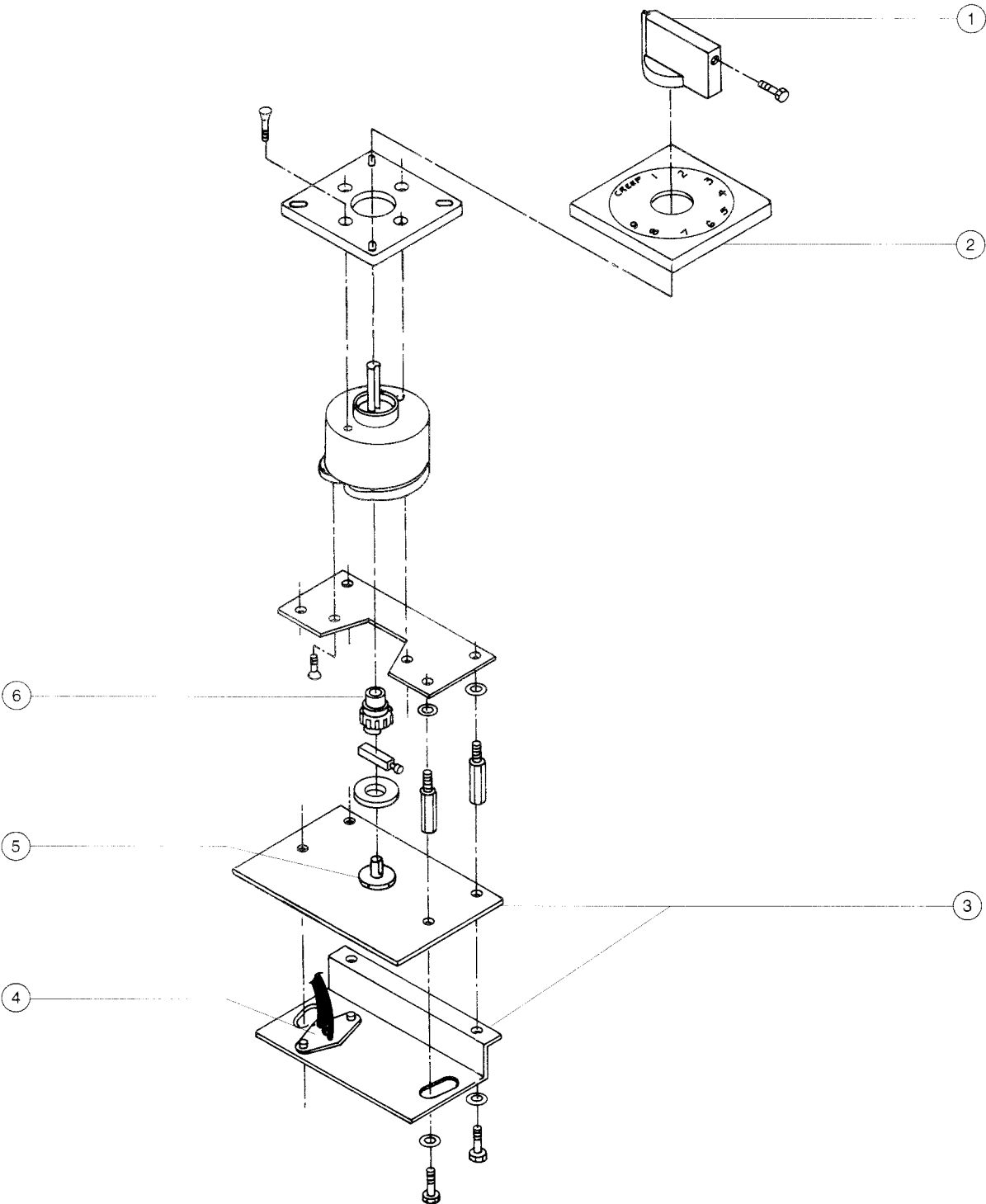
506.1 Joystick Controller - Drive / Steer



506.1 Joystick Controller - Drive / Steer

<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
	42032GT	JOYSTICK,CNTRLLR SINGLE BRD*** (23441 shown but no longer available)	
	42032HGT	JOYSTICK,CNTRLLR SINGLE BRD (aftermarket joystick)	
1	19710GT	BOOT, PROTECTIVE, 45049 BLACK	1
2		ROCKER ASSEMBLY,45049 (component no longer available)	1
3	19723GT	JOYSTICK HANDLE HALF***	2
4	19715GT	BOOT,45049,40612	1
5	19720GT	CASTING,45049, 40612	1
6	19719GT	SHAFT,45049	1
7	40431GT	PCB,ASSY,JOYSTICK	1
8	21434GT	SPRING & BUSHING KIT,RETURN***	1
9	19731GT	GEAR, SLAVE, MS4,45048	1
10	19712GT	MICROSWITCH,V3L-139-D8	3
11	29062GT	PCB,ASSY,23441 CONTROLLER	1
12	19722GT	MICROSWITCH-V319M***	2

507.1 Rotational Controller



507.1 Rotational Controller

<i>Item</i>	<i>Part No.</i>	<i>Description</i>	<i>Qty.</i>
	36557GT	ROTATIONAL CONTROLLER,24V***	
1	19726GT	CONTROL KNOB,45048	1
2	35680GT	LEGEND,PLSTC,"CREEP TO 9"***	1
3A	19728GT	PCB,ASSY,45048 for controller 45048 (includes index numbers 4 & 5)	1
3B	40433GT	PCB,ROTATOR CONTROLLER 36557* for controller 36557	
4	19730GT	TRANSISTOR,45048	1
5	19729GT	POTENTIOMETER,56886	1
6	19731GT	GEAR, SLAVE, MS4,45048	1

Part no.	Page Number	Part no.	Page Number	Part no.	Page Number
1268GT	9, 11, 13	12334GT	9	13366GT	15
1484GT	9, 11, 13	12338GT	9	13391GT	55
1544GT	71	12340GT	63	13408GT	61
4513GT	35	12342GT	63	13445GT	59
4828GT	15, 19, 25, 35, 55, 57...	12385GT	13	13471GT	43
5094GT	25, 43	12443GT	69	13481GT	37, 51
5361GT	15, 61	12461GT	17	13482GT	69
5397GT	19, 25, 35, 57, 65	12463GT	9, 11	13496GT	55
6019GT	19, 21, 35, 57, 65	12515GT	11	13499GT	51
6021GT	21, 35, 61	12725GT	9, 13	13507GT	51
6086GT	67	12875GT	51	13508GT	51
6090GT	19, 21, 25, 43	12900GT	67	13511GT	43
6091GT	19, 25, 37, 51, 55, 57...	12953GT	13	13519GT	63
6145GT	59	12960GT	71	13522GT	53
6198GT	17	12981GT	15	13524GT	63
6271GT	73	13001GT	59	13525GT	63
6272GT	19, 43, 69	13002GT	67	13579GT	19
6356GT	21, 43, 59	13006GT	19	13585GT	71
6435GT	55	13008-3GT	41	13610GT	67
6550GT	69	13008-6GT	41	13611GT	67
6600GT	73	13009GT	55, 61	13612GT	67
6607GT	43	13012GT	15, 55, 59	13614GT	67
6638GT	19, 21, 35, 51, 55, 57...	13062-1GT	21	13615GT	65, 67
6653GT	73	13064GT	21, 31	13629GT	61
6708GT	25, 55, 59	13071GT	15	13630GT	57
6833GT	57	13078GT	17	13635-3GT	15
6888GT	35, 51, 57, 65, 69	13084GT	35	13635-4GT	15
6935GT	71	13091GT	43, 75	13635-5GT	15
7056GT	71	13097GT	25	13635-6PGT	15
8342GT	63	13098GT	71	13635-7GT	15
8514GT	59, 67	13103GT	35	13635-9GT	15
8843GT	71	13104GT	25	13635-11PGT	15
8910GT	21	13114GT	27, 63	13649GT	61
8914GT	59	13119GT	53	13681GT	67
8915GT	51, 59, 71	13120GT	53	13708GT	67
10665GT	67	13191GT	19	13713PGT	57
11855GT	71	13222-2GT	45	13714PGT	57
12216GT	9, 13	13231GT	55, 59	13745GT	15
12245GT	11	13317GT	55	13755GT	53, 63
12331GT	9	13318GT	61	13757GT	27, 63
12332GT	9	13319GT	55, 59	13775GT	65
12333GT	13	13340GT	59	13781GT	67

<u>Part no.</u>	<u>Page Number</u>	<u>Part no.</u>	<u>Page Number</u>	<u>Part no.</u>	<u>Page Number</u>
13782GT	67	20116GT	39	23354PGT	57, 65
13783GT	67	20193GT	21	23417GT	25
13804GT	57	20262GT	69	23422GT	25
13840GT	69	20373GT	35	23440GT	37
13852GT	61, 65	20654GT	31	23477GT	35, 47
13863GT	35	20733GT	25	23482GT	55
13864GT	9	20812GT	25, 35, 71	23603PGT	21
13869GT	67	20813GT	25, 35, 71	23618GT	39
13875GT	55	21143GT	21	23661GT	11, 13
13921GT	27, 63	21144GT	21	23662GT	11
13998-2GT	39	21145GT	23	23663GT	9, 13
14041GT	71	21146GT	23	23664GT	13
14634GT	51	21148GT	23	23665GT	13
16251GT	65	21149GT	23	23672GT	13
16591GT	67	21166GT	15	23695PGT	35
16592GT	67	21172GT	33	23704GT	15
16660GT	39	21175GT	21, 31	23708GT	65
17559GT	39	21176GT	53	23709GT	59
17566GT	39	21373GT	45	23725GT	9
18078GT	41	21383GT	11	23729GT	53, 63
18605GT	71	21434GT	77	23792GT	9
18963GT	43	21625GT	45	23793GT	9
19154GT	63	21932GT	51	23794GT	9
19331GT	67	22036GT	67	23795GT	9, 11, 13
19440GT	15	22202GT	33	23845GT	25
19491GT	55	22265GT	25	23902PGT	35
19533GT	41	22881GT	15	24059GT	41
19631GT	53	23060GT	75	24201GT	69
19710GT	77	23080GT	15	24343GT	25, 35, 71
19712GT	77	23154-SGT	15	24443GT	29
19715GT	77	23260GT	21	24645GT	65
19719GT	77	23261GT	21	24646GT	55, 59
19720GT	77	23262GT	21	24648GT	63
19722GT	77	23263GT	21	24862GT	69
19723GT	77	23285GT	65	25034GT	47
19726GT	79	23287GT	59, 65	25065GT	65
19728GT	79	23292GT	15	25375GT	45, 47, 49
19729GT	79	23312PGT	19	25628GT	63
19730GT	79	23314GT	25	25942GT	51
19731GT	77, 79	23317PGT	25	25943GT	51
19791GT	39	23319PGT	25	25944GT	51
19975GT	71	23320GT	15	27077GT	39

<u>Part no.</u>	<u>Page Number</u>	<u>Part no.</u>	<u>Page Number</u>	<u>Part no.</u>	<u>Page Number</u>
27078GT	39	29046GT	27, 53	42401GT	39
27079GT	39	29047GT	53	42465GT	41
27080GT	39	29048GT	53	43035GT	13, 75
27262GT	41	29049GT	53	43956GT	71
27263GT	41	29050GT	9, 11, 13	44586GT	35
27275GT	33	29051GT	55	45076GT	21
27419GT	25	29056GT	59	45094GT	23
27428GT	23	29059GT	69	45105GT	75
27429GT	23	29060GT	69, 71	45108GT	15
27430GT	23	29062GT	77	45209GT	59
27830GT	41	29063GT	47	45212GT	35
28352GT	15	29218GT	39	45235GT	9
28443GT	61	29219GT	39	45256PGT	71
28977GT	15	29220GT	55, 59	45351GT	53, 63
28978GT	17	29221GT	65	45356GT	53, 63
28979GT	19	29222GT	65	45382GT	59
28980GT	19	29223GT	65, 67	45384GT	75
28981GT	19	29224GT	29	45385GT	71
28982GT	19	29225GT	29	45401GT	13
28983GT	19	29226GT	29	45402GT	13
28984GT	21	29227GT	29	45403GT	13
28985GT	25	29228GT	29	45404GT	13
28986GT	21	29229GT	29	45412GT	53
28988GT	43	30807PGT	69	45415GT	63
29009GT	29	31822GT	73	45437GT	71
29028GT	45	32150GT	9, 11, 13	45451GT	71
29029GT	45	32151GT	9, 11, 13	45465GT	59
29030GT	45	35587GT	23	45492GT	49
29031GT	35	35680GT	79	45500GT	29
29032GT	47	35831GT	67	45501GT	29
29034GT	53	35934GT	71	45543GT	45, 47
29035GT	53	36557GT	75, 79	45544GT	47
29036GT	27	37862GT	39	45645GT	71
29037GT	63	38114GT	23	45705GT	53
29038GT	63	38115GT	23	45840GT	75
29039GT	53	40146GT	15	45852GT	59
29040GT	63	40423GT	47	45881GT	69
29041GT	63	40431GT	77	45912GT	47
29042GT	63	40433GT	79	45913GT	45
29043GT	63	42032GT	75, 77	45914GT	45, 49
29044GT	63	42032HGT	77	45919GT	49
29045GT	63	42071GT	75	45921GT	49

<u>Part no.</u>	<u>Page Number</u>	<u>Part no.</u>	<u>Page Number</u>	<u>Part no.</u>	<u>Page Number</u>
49326GT	61	106433GT	55		
49327GT	61, 65	114314GT	23		
49328GT	17	114315GT	23		
49329GT	55, 59	114316GT	23		
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53819GT	69	122366GT	43		
54139GT	23	122512GT	43		
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58330GT	31	128621GT	31		
58331GT	31	128622GT	31		
58343GT	31	128899GT	31		
58344GT	31	146164GT	45		
58345GT	31	146166GT	45		
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California Proposition 65



WARNING

Operating, servicing and maintaining this equipment, passenger vehicle or off-highway motor vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. These chemicals can be emitted from or contained in other various parts and systems, fluids and some component wear by-products. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your equipment and vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your equipment or vehicle and after operation. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Always start and operate the engine in a well-ventilated area.
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system.
- Do not idle the engine except as necessary.

For more information go to www.P65warnings.ca.gov/diesel.