

CENTURY®

L E G E N D A R Y L E A D E R S H I P



OWNER'S MANUAL

5230 PARTS

NOTE: MANUAL including SPECIFICATIONS, subject to change without notice
All ratings specified are based on structural factors only,
not vehicle capacities or capabilities.

CENTURY®

Miller Industries Towing Equipment Inc.
8503 Hilltop Drive
Ooltewah, Tennessee 37363
Phone (423) 238-4171 • FAX (423) 238-5371

FORM NO. 30375001
10 / 2014

LIMITED WARRANTY

MILLER INDUSTRIES TOWING EQUIPMENT INC., hereinafter referred to as MILLER, warrants to the original purchaser that each new MILLER wrecker or other MILLER products will be free from defects in material and workmanship for a period of twelve (12) months from date placed in service, but in no event shall such warranty period exceed twenty-four (24) months from date of manufacture by MILLER. The purchaser must promptly notify MILLER in writing of any failure in material or workmanship. In no event shall MILLER accept such notification later than twenty-four (24) months from date of delivery or twelve (12) months from date placed in service, whichever is earlier.

MILLER's obligation under this warranty, statutory or otherwise, is limited to the repair or replacement at the MILLER factory, or at a point designated by MILLER, of such part or parts as shall appear upon inspection by MILLER to be defective in material or workmanship. New or remanufactured parts will be used for any replacement at MILLER's option. This warranty is not transferable. This warranty does not obligate MILLER to bear the cost of labor or transportation charges in connection with the repair or replacement of any parts found to be defective, nor shall it apply to a product upon which repairs or alterations have been made unless authorized by MILLER.

EXCEPT AS EXPRESSLY SET FORTH IN THIS WARRANTY, MILLER MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND HEREBY DISCLAIMS ALL OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. MILLER shall in no event be liable for claimed downtime, claimed loss of profits or goodwill, or any other special, incidental, indirect, or consequential damages concerning or relating to any product or parts, whether based on negligence, strict liability, breach of contract, breach of warranty, misrepresentation or any other legal theory, regardless of whether the loss resulted from any general or particular requirement which MILLER knew or had reason to know about at the time of sale.

MILLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE FINISHED PRODUCTS MANUFACTURED OR SUPPLIED BY ANOTHER MANUFACTURER AND SUPPLIED BY MILLER TO PURCHASER, including, but not limited to, any vehicle to which a MILLER product may be affixed or any accessories or wire rope, and MILLER EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AS TO SUCH EQUIPMENT OR PRODUCTS. This language shall in no way affect or diminish the rights of the purchaser to rely on such warranties as are extended by such manufacturers or suppliers. MILLER shall, to the extent permitted under applicable law, pass on to the purchaser such manufacturer's or seller's warranty.

MILLER, whose policy is one of continuous improvement, reserves the right to improve its products through changes in design or materials as it may deem desirable without being obligated to incorporate such changes in products previously sold. This warranty is not intended to cover or include the following items, which are set forth by way of example and not limitation:

- A. Normal deterioration of trim, paint, lettering, and appearance items due to wear or exposure to weather, road conditions, road treatments, etc.
- B. Any damage or defect due to accident, misuse, abuse, improper or unauthorized repairs, failure to provide reasonable and necessary maintenance, or uses for which the equipment was not designed or intended.
- C. Alterations or modifications that affect performance, operation or reliability.
- D. Normal maintenance parts including, but not limited to, wear pads, bushings, wire rope, mud flaps, fenderettes, light bulbs, hydraulic oil, filters, and tow sling belts.

IT IS EXPRESSLY UNDERSTOOD THAT MILLER MAKES NO IMPLIED WARRANTY THAT MILLER PRODUCTS SHALL BE FIT FOR THE PURPOSE OF LIFTING OR MOVING PEOPLE OR FOR ANY OTHER IMPROPER USE.



Miller Industries Towing Equipment Inc.
8503 Hilltop Drive
Ooltewah, Tennessee 37363
Telephone (423) 238-4171

SERIAL NUMBER

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OWNER, USER AND OPERATOR:

We appreciate your choice of our towing and recovery unit for your application. Our number one priority is user safety which is best achieved by our joint efforts. We feel that you can make a major contribution to safety if you, as the equipment owner and operator:

- 1. Comply with Federal, State, and Local Regulations.**
- 2. Read, Understand, and Follow the Instructions in this Manual.**
- 3. Use Good, Safe Work Practices in a Common Sense Way.**
- 4. Only have Authorized and Trained Personnel performing maintenance on the Towing and Recovery Unit.**

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It is assumed by the manufacturer that the Owner/Operator has a thorough knowledge of the accepted and lawful retrieval and towing methods as dictated by his city, county or state. The manufacturer rejects any liability claim that may result from the incorrect or unlawful application of its equipment.

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Section I - PARTS

This Section is provided by the manufacturer for the purpose of ordering any component part of the **Renault Defense 5230 Recovery Unit** that may be required when part replacement is necessary. Be certain to use only original equipment replacement parts for warranty purposes as well as for keeping your **Renault Defense 5230 Recovery Unit** in its original state and optimum operating capacities.

When ordering replacement or spare parts be sure to provide the following information to the manufacturer's Parts Department.

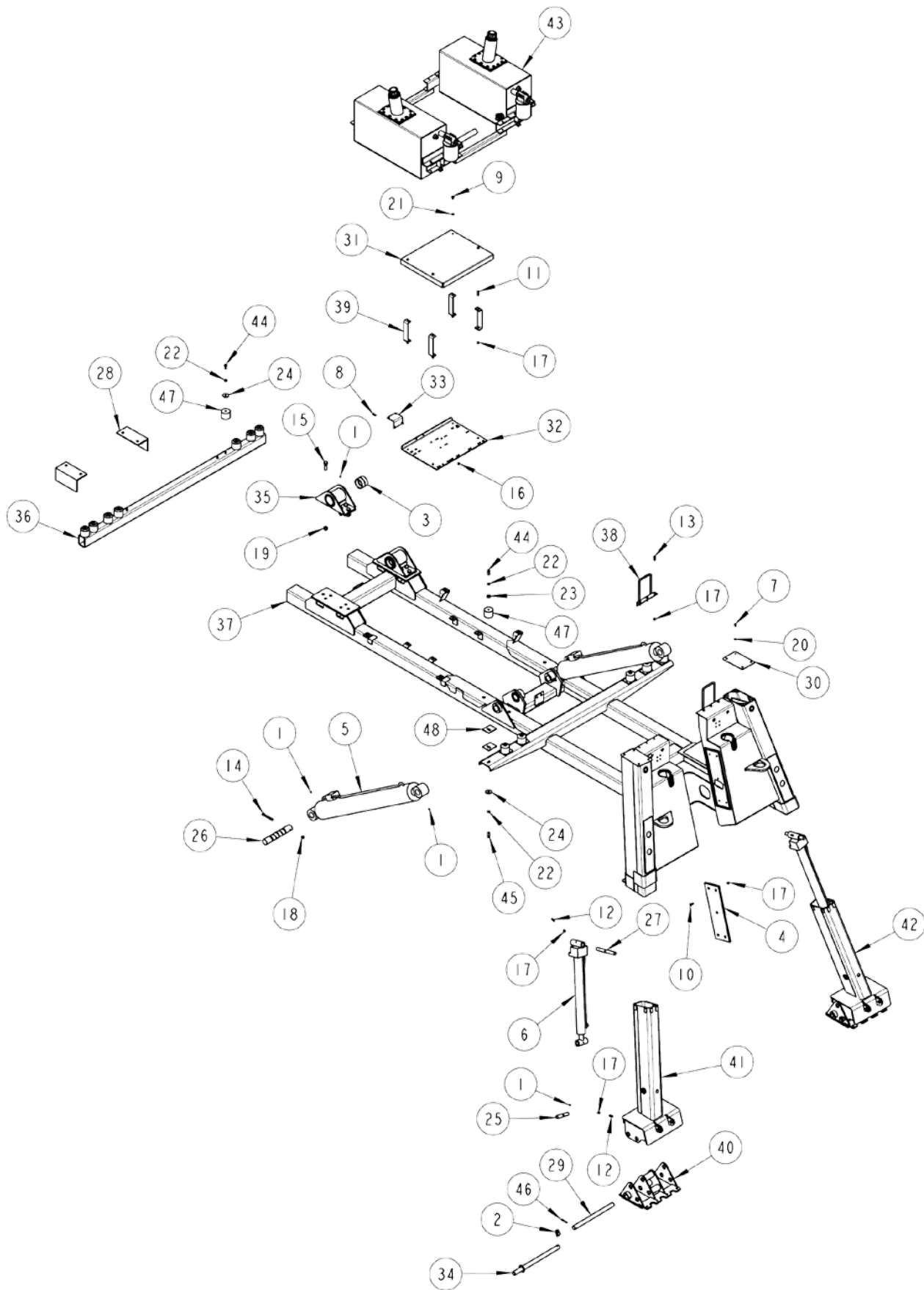
1. **Manual Number & Date of Publication**
2. **Manual Page Number**
3. **Page Title**
4. **Reference Number of Part Desired**
5. **Part Number**
6. **Part Description**
7. **Quantity of Part Desired**

Providing this information will help ensure that the correct parts will be delivered to you in an expedient manner. Should additional information be required for repair or replacement of certain components, contact your Wrecker Manufacturer Authorized Representative.

The Manufacturer reserves the right, without notice or obligation, to improve or modify their products, which may change the specifications, models and feature availability.

Section I - PARTS (cont'd)

SUBFRAME ASSEMBLY



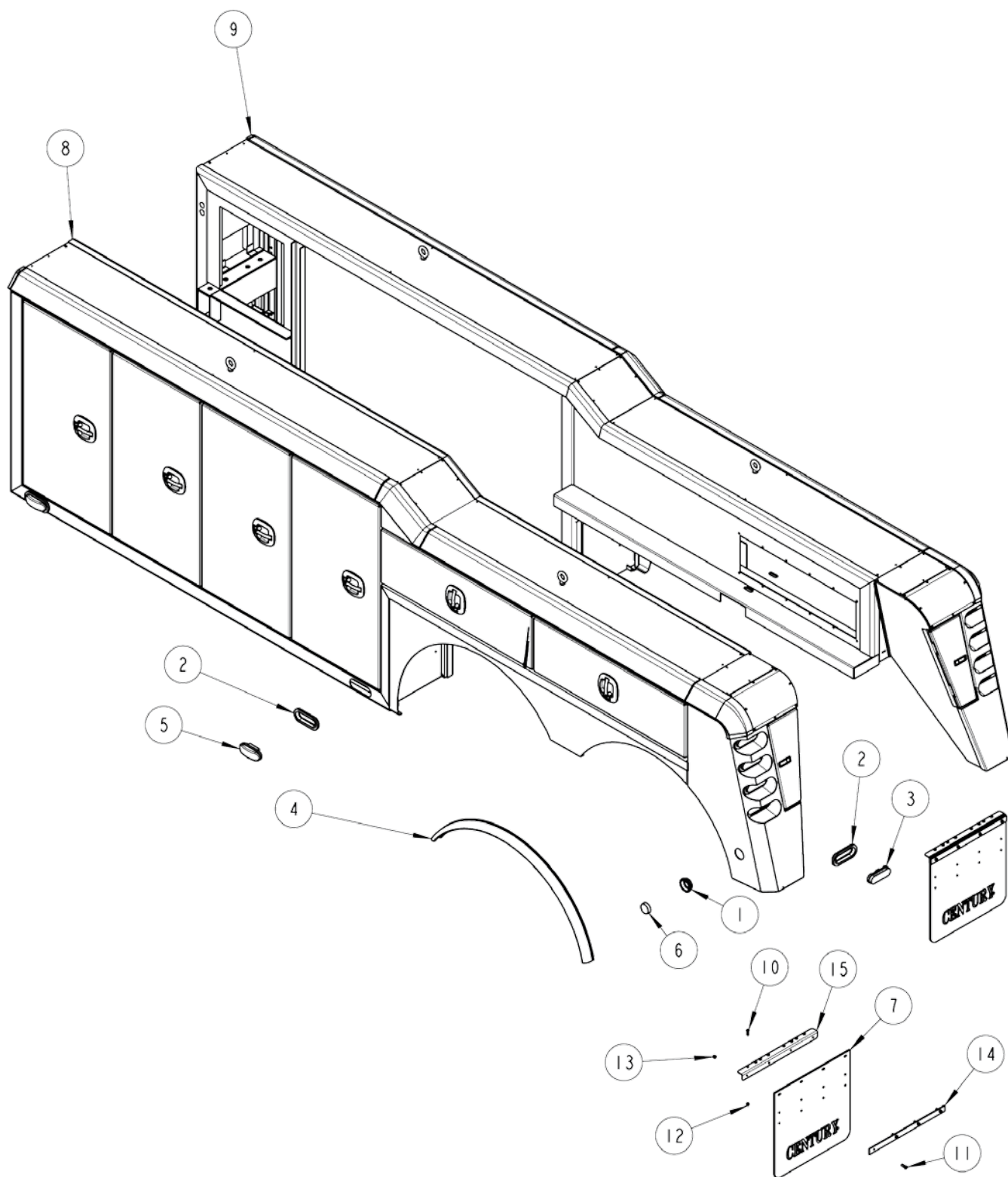
Section I - PARTS (cont'd)

SUBFRAME ASSEMBLY

ITEM	PART NUMBER	DESCRIPTION	QTY
1	0300113	GREASE FITTING, 1/4-28 STRAIGHT	8
2	0301861	QUICK PIN	2
3	0302538	SPRING BUSHING, 3.5OD X 3ID X 2.5	2
4	0303089	RAMP PAD	2
5	0307012	CYLINDER, BOOM LIFT (5035)	2
6	0310013	CYLINDER, HYDRAULIC TI S24023424PPBZ	2
7	0400066	1/4-20 X 3/4 HHCS GR.5,ZP	8
8	0400109	5/16-18 X 1 HHCS GR.5,ZP	2
9	0400121	3/8-16NC X 3/4 HHCS GR. B	4
10	0400128	3/8-16X1.25 FLAT HD SOC	10
11	0400132	3/8-16 X 1 1/2 HHCS GR.5,ZP	4
12	0400139	SCREW, 3/8"-16 X 1-1/2" HEX SKT SET	4
13	0400148	3/8-16 X 1-1/4 HHCS GR5 ZP	6
14	0400219	1/2-13 X 4-1/2 HHCS GR.5 ZP	2
15	0400288	3/4-10 X 2-1/2 HHCS GR.8 GOLD	12
16	0400382	5/16-18 NYLOCK HEX NUT ZP	2
17	0400392	3/8-16 NYLOCK HEX NUT ZP	24
18	0400408	1/2-13 NYLOCK HEX NUT ZP	2
19	0400431	3/4-10 NYLOCK HEX NUT GR.8, ZP	12
20	0400452	1/4 HELICAL LOCK WASHER ZP	8
21	0400482	3/8 HELICAL LOCK WASHER ZP	4
22	0400491	1/2 HELICAL LOCK WASHER ZP	20
23	0400497	1/2 FLAT WASHER GR.8,YZ PLATED	6
24	0400498	WASHER, 1/2' ID X 2" OD X .150	14
25	0705500	SHAFT - LOWER SPADE	2
26	0707118	PIN - LIFT CYLINDER	2
27	0707394	SHAFT - UPPER SPADE	2
28	0710545	HR ANGLE	2
29	0715694	PIN - SPADE PIVOT	2
30	0715796	COVER PLATE	2
31	0717066	COVER - VALVE	1
32	0717827	PLATE - VALVE MOUNTING	1
33	0719122	PLATE - VALVE MTG.	1
34	0804334	PIN, MULTI-POSITION	2
35	0804405	BOOM PIVOT BRKT	2
36	0806004	FRONT TOOLBOX MOUNT	1
37	0806508	SUBFRAME WELDMENT (5130 / 5230)	1
38	0806521	HAND RAIL WLMT	2
39	0807181	COVER SUPPORT WLMT	4
40	0807630	LOWER SPADE PAD WELDMENT	2
41	0807664	INNER SPADE WLMT (LH)	1
42	0807665	INNER SPADE WLMT (RH)	1
43	0907802	KIT - RESERVOIR	1
44	9041402	1/2-13NC X 1 1/4 HHCS, ZP,GR.8	14
45	9041403	1/2-13 X 1-1/2 HHCS GR 8 ZP	6
46	9046354	1/4 X 2-1/2 ROLL PIN ZP	2
47	9402970	TOOLBOX MTG. PAD	14
48	942480011	REAR WASHER PLATE	12

Section I - PARTS (cont'd)

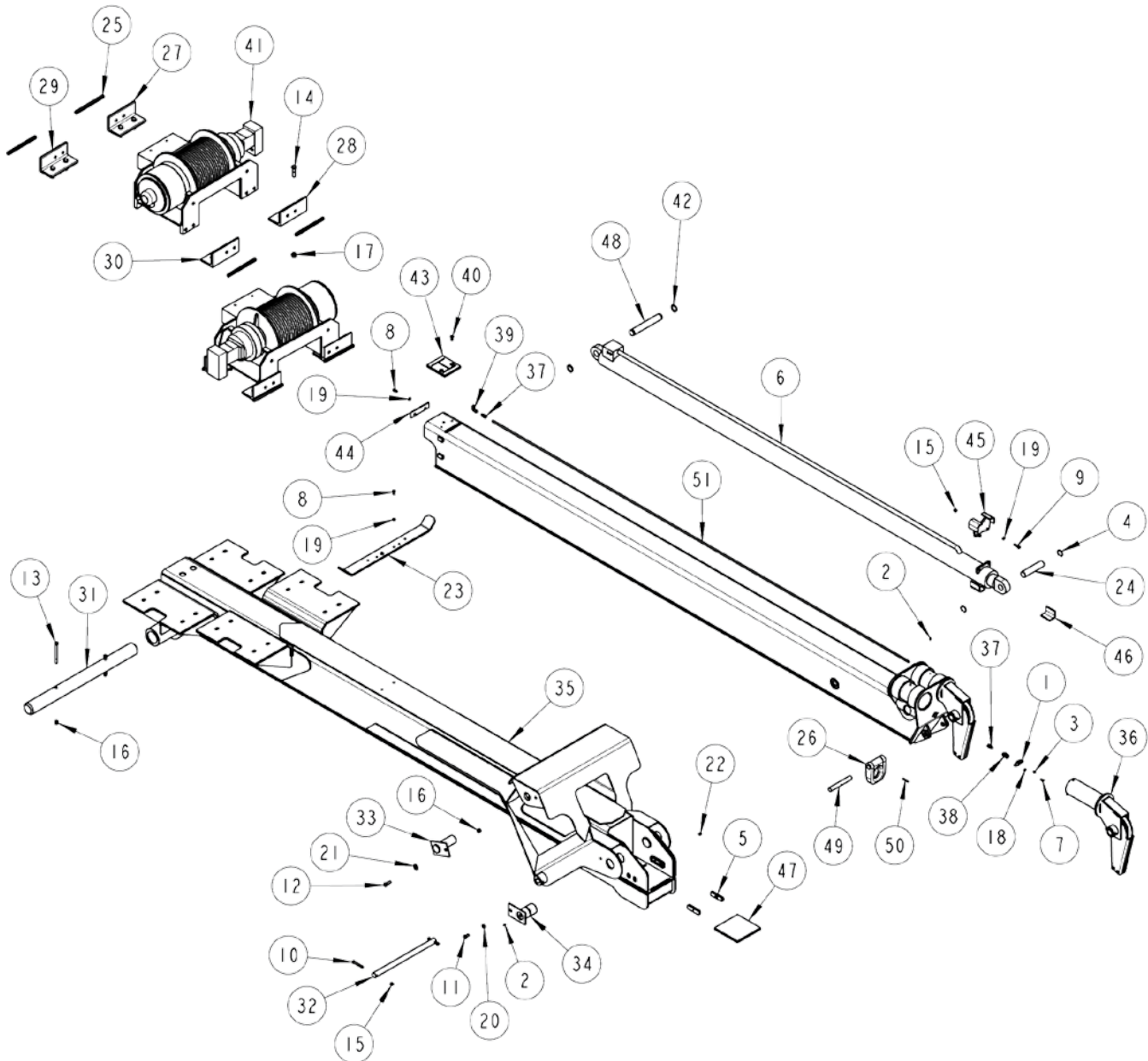
5230 BODY ASSEMBLY



Section I - PARTS (cont'd)**5230 BODY ASSEMBLY**

ITEM	PART NUMBER	DESCRIPTION	QTY
1	0303127	GROMMET, MARKER LIGHT	1
2	0303128	GROMMET, TAIL LIGHT	6
3	0303904	STOP/TURN LGHT-RED LED CLR LEN	4
4	0307151	RUBBER FENDER	1
5	0303903	LIGHT OVAL AMBER 60 LED	2
6	0302972	MARKER LAMP, RED 2-1/2" ROUND	1
7	0310631	MUD FLAP	2
8	30403001	LH 180 CB TANDEM AL. BODY	1
9	30403002	RH 180 CB TANDEM AL. BODY	1
10	0400103	5/16-18 X 1 1/4 HHCS GR.5, ZP	16
11	0400148	3/8-16 X 1-1/4 HHCS GR5 ZP	8
12	0400382	5/16-18 NYLOCK HEX NUT ZP	16
13	0400392	3/8-16 NYLOCK HEX NUT ZP	8
14	0717386	BAR - MUDFLAP	2
15	0718139	ANGLE - MUD FLAP MOUNT	2

Section I - PARTS (cont'd) **RECOVERY BOOM ASSEMBLY**

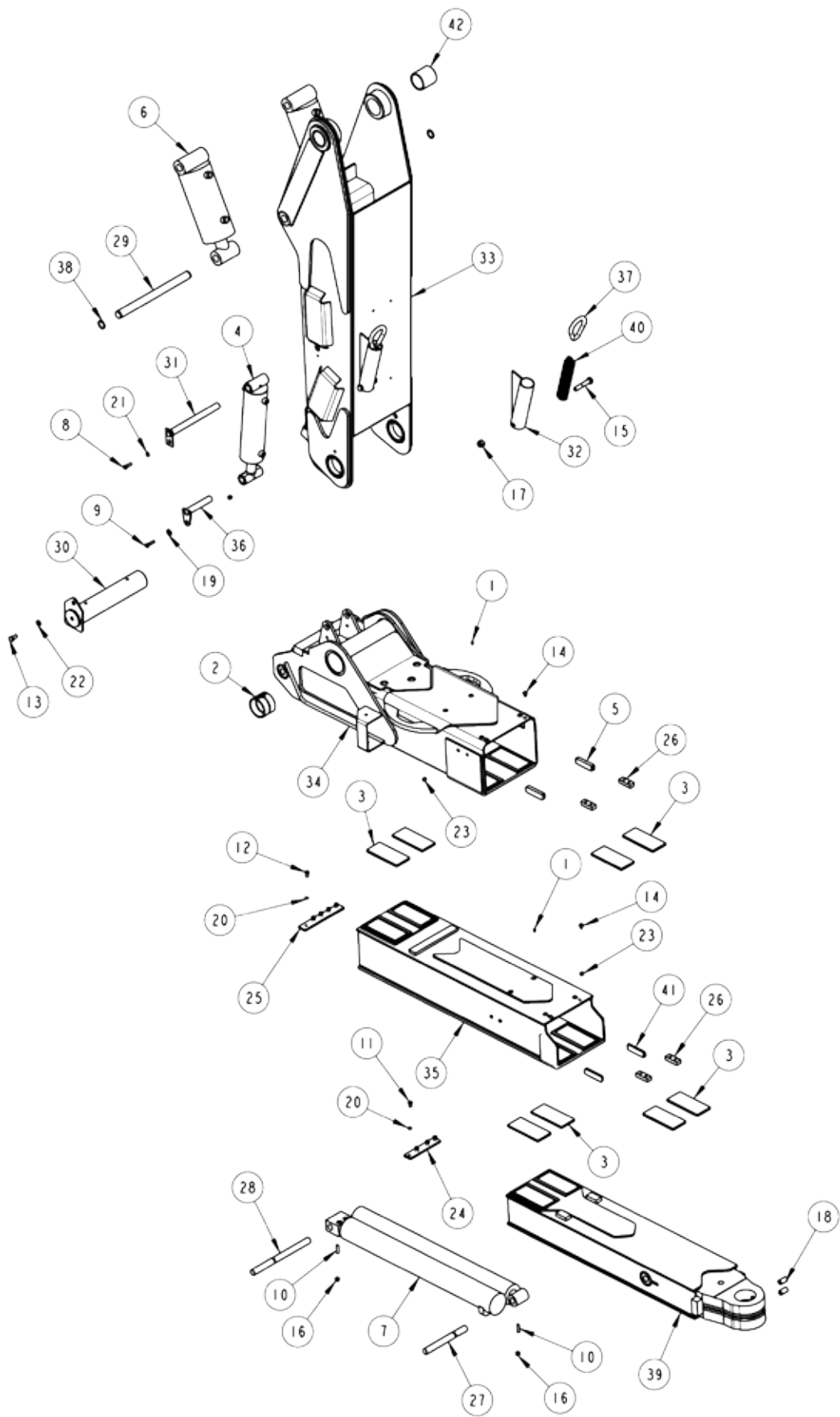


Section I - PARTS (cont'd)

RECOVERY BOOM ASSEMBLY

ITEM	PART NUMBER	DESCRIPTION	QTY
1	3012-793001	PLATE - LUBE MTG	1
2	0300113	GREASE FITTING, 1/4-28 STRAIGHT	6
3	0301895	GREASE FITTING, 1/8 NPT STRAIGHT	1
4	0301959	SNAP RING - 1.5 INTERNAL	2
5	0303490	WEAR PAD (1/2 X 1 X 4)	2
6	0307082	CYLINDER - BOOM EXTEND	1
7	0400059	1/4-20 X 5/8 HHCS GR 5 ZP	2
8	0400121	3/8-16NC X 3/4 HHCS GR. B	4
9	0400132	3/8-16 X 1 1/2 HHCS GR.5,ZP	2
10	0400133	3/8-16 X 3 HHCS GR.5,ZP	4
11	0400176	1/2-13 X 1 HHCS GR.5,ZP	2
12	0400181	1/2-13 X 1-1/2 HHCS GR 5 ZP	2
13	0400220	1/2-13 X 5-1/2 HHCS GR5 ZP	2
14	0400262	5/8-11 X 2 1/2 HHCS GR.8,ZP	16
15	0400392	3/8-16 NYLOCK HEX NUT ZP	10
16	0400408	1/2-13 NYLOCK HEX NUT ZP	4
17	0400426	5/8-11 NYLOCK NUT GR.8 ZP	16
18	0400452	1/4 HELICAL LOCK WASHER ZP	2
19	0400482	3/8 HELICAL LOCK WASHER ZP	6
20	0400491	1/2 HELICAL LOCK WASHER ZP	2
21	0400492	1/2 FLAT WASHER ZP	2
22	0400990	1/2-13 X 1/2 SKT HD SET SCREW ZP	4
23	0705104	PLATE - SUPPORT	1
24	0707580	PIN - SPADE CYLINDER - ROD CH-50	1
25	0711164	BLOCK - SHEAR	8
26	0712380	"D" RING	1
27	0715947	ANGLE - WINCH MOUNTING	2
28	0715948	ANGLE - WINCH MOUNTING	2
29	0715949	ANGLE - WINCH MOUNTING	2
30	0715950	ANGLE - WINCH MOUNTING	2
31	0715953	PIN - BOOM PIVOT	1
32	0716763	SHAFT	1
33	0802219	PIN - LIFT CYLINDER PIVOT	2
34	0802365	PIN-TOWER PIVOT WLMT	2
35	0805876	OUTER BOOM WLMT - 5130/5230	1
36	0906530	BOOM SWIVEL ASSEMBLY	2
37	9012549	CONNECTOR, 3/8 TUBE X 1/8 NPT	2
38	9012552	BULKHEAD COUPLING, 1/8	1
39	9012584	ELBOW, 1/4 NPT X 3/8 TUBE 90	1
40	9044434	3/8-16X1 NC FLAT	2
41	9048248	WINCH DP 2-SPD 25K NARROW DRUM	1
42	9056150	RETAINING RING, 1-1/2"	2
43	915030004	WEAR PAD	1
44	915040001	PAD RETAINING PLATE	1
45	915040400	TOP SPIDER CLAMP ASSY ~ BOOM ASSY	1
46	915040501	BOTTOM CLAMP ANGLE - EXT. CYL. ASSY	2
47	916040004	WEAR PAD - LOWER	1
48	916350001	PIN - BOOM EXT. CYL. FR.	1
49	BA0259	PIN, 'D' RING	1
50	HD0106	1/4 X 1-3/4 ROLL PIN ZP	1
51	0301949	3/8" OD AIRLINE, SYN FLEX	1

Section I - PARTS (cont'd)
UNDERLIFT & TOWER ASSEMBLY



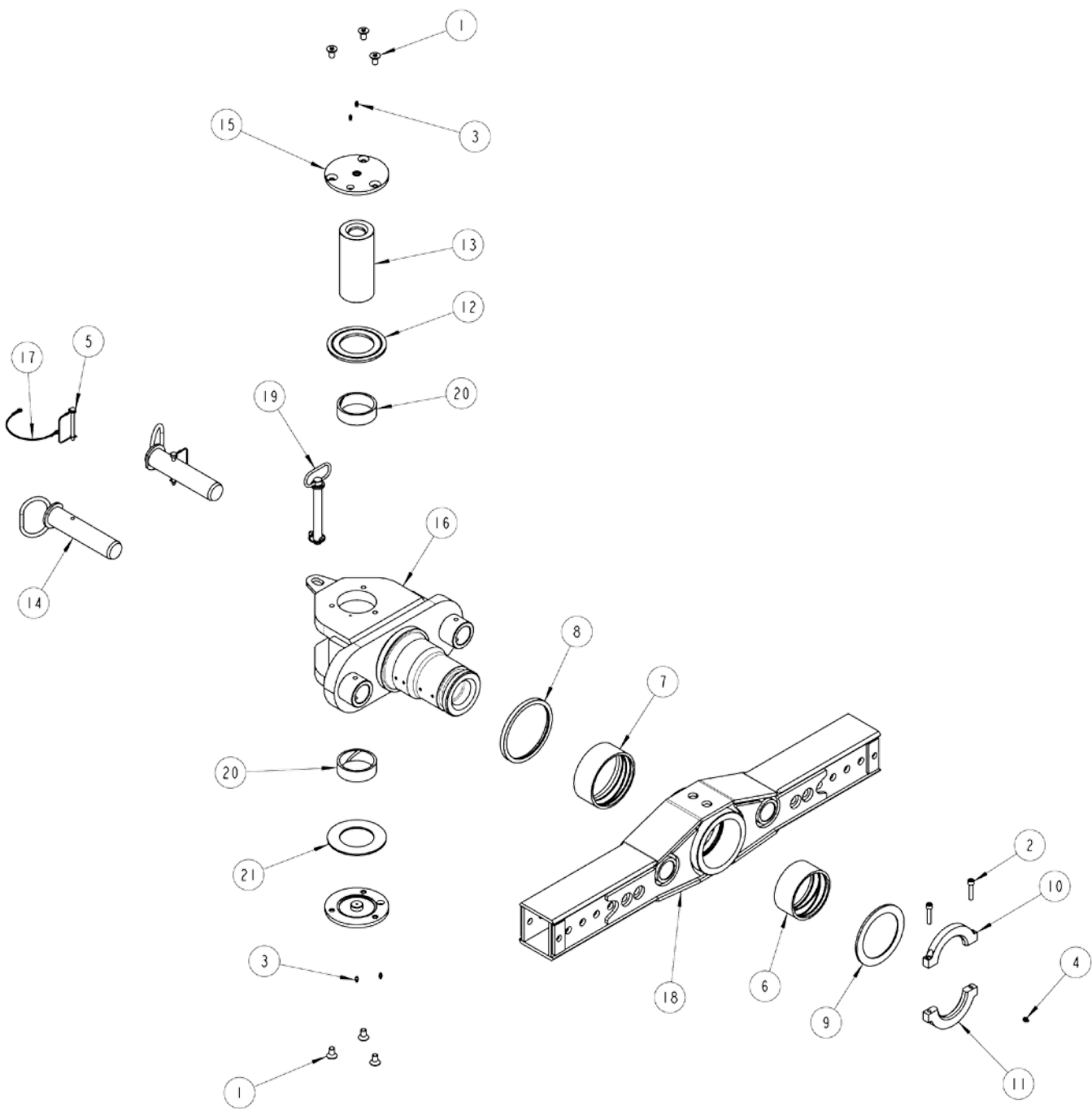
Section I - PARTS (cont'd)

UNDERLIFT & TOWER ASSEMBLY

ITEM	PART NUMBER	DESCRIPTION	QTY
1	0300113	GREASE FITTING, 1/4-28 STRAIGHT SS	6
2	0302538	SPRING BUSHING, 3.5OD X 3ID X 2.5	2
3	0302561	SLIDE PAD	8
4	0306746	CYLINDER - HYDRAULIC FOLD	1
5	0307013	PAD - WEAR	2
6	0307040	CYL - U/L TILT	2
7	0307041	U/L EXTEND CYLINDER	1
8	0400122	3/8-16 X 1 1/4 HHCS GR.5,ZP	1
9	0400132	3/8-16 X 1 1/2 HHCS GR.5,ZP	1
10	0400139	SCREW, 3/8"-16 X 1-1/2" HEX SKT SET	2
11	0400147	3/8-24X 5/8 HHCS GR5 ZP	4
12	0400151	3/8-24 X 3/4 HHCS GR5 ZP	5
13	0400176	1/2-13 X 1 HHCS GR.5,ZP	1
14	0400228	SCREW, 3/8"-24 X 5/8" BUTTON HEAD SKT	8
15	0400257	5/8-11 X 3-1/4 HHCS GR5 ZP	2
16	0400392	3/8-16 NYLOCK HEX NUT ZP	3
17	0400421	5/8-11 NYLOCK HEX NUT ZP	2
18	0400456	SCREW, 3/8"-16 X 1-1/2" HEX SKT SET	2
19	0400480	3/8 FLAT WASHER ZP	1
20	0400481	LOCKWASHER, 3/8" EXT TOOTH	9
21	0400482	3/8 HELICAL LOCKWASHER ZP	1
22	0400491	1/2 HELICAL LOCKWASHER ZP	1
23	0400990	1/2-13 X 1/2 SKT HD SET SCREW ZP	8
24	0706996	SPACER PAD	1
25	0707028	PAD, BEARING	1
26	0707034	STOP PLATE	4
27	0716745	EXTEND CYLINDER SHAFT	1
28	0716746	EXTEND CYLINDER SHAFT	1
29	0716870	SHAFT	1
30	0802214	PIN-UNDERLIFT PIVOT	1
31	0802459	PIN-FOLD CYL. WLMT	1
32	0804483	CABLE TIE BACK WLMT	2
33	0805884	TOWER WLMT	1
34	0805894	OUTER U/L BOOM WLMT	1
35	0805895	2ND STAGE U/L BOOM WLMT	1
36	0806756	PIN WELDMENT - FOLD CYLINDER	1
37	9048800	5/8 WELDLESS CHAIN LINK	2
38	9056125	SNAP RING - 1-1/4" HEAVY DUTY	2
39	30378011	3RD STAGE BOOM WLMT	1
40	945030007	SPRING - HOSE TENSIONER	2
41	BK2003	PAD-WEAR	2
42	RB0205	SPLIT BUSHING	2

Section I - PARTS (cont'd)

CROSSBAR ASSEMBLY



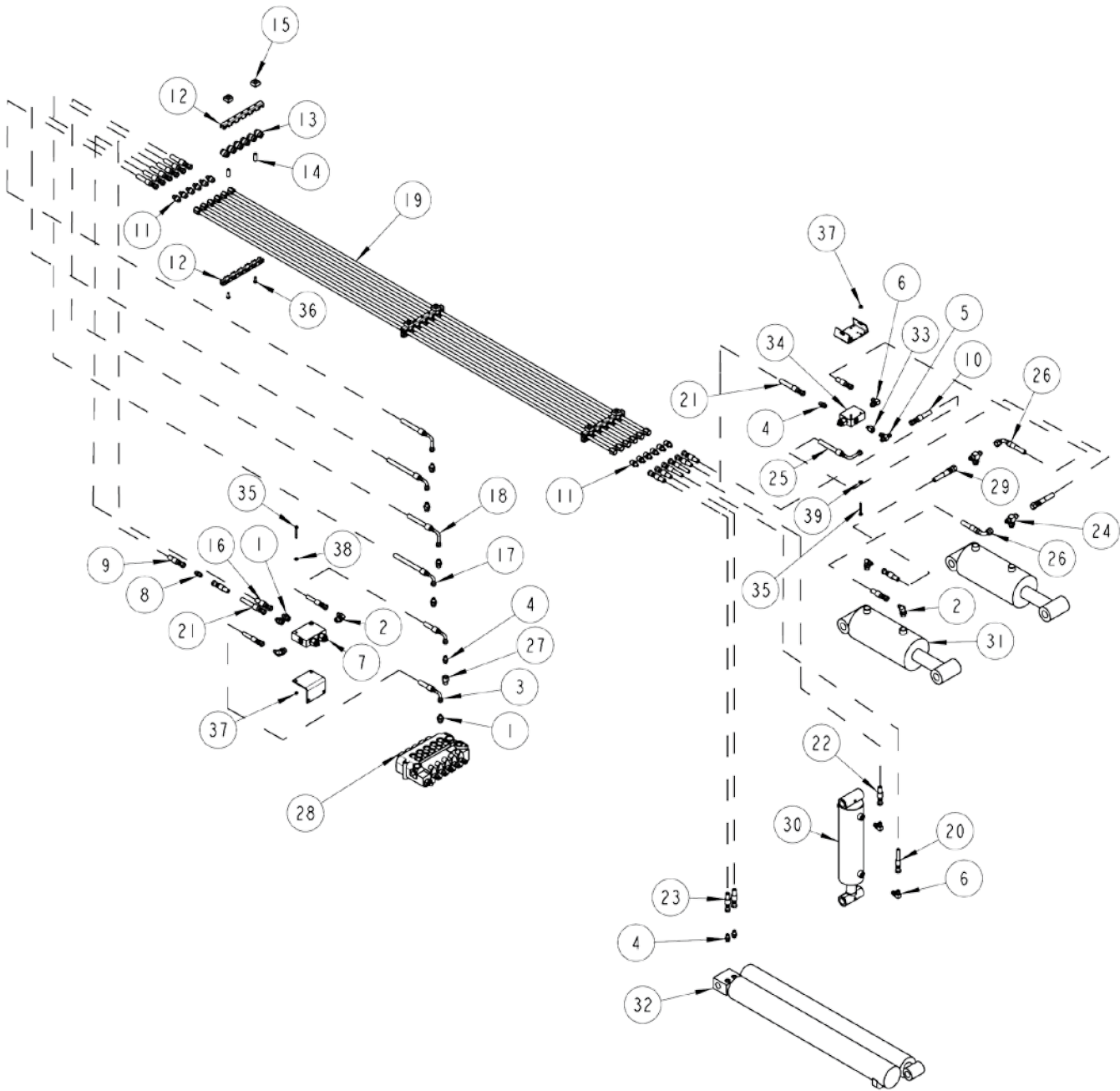
Section I - PARTS (cont'd)

CROSSBAR ASSEMBLY

ITEM	PART NUMBER	DESCRIPTION	QTY
1	0410215	M14-2.0 X 25 10.9 FHSCS ECOGD-GMET321	6
2	0410242	1/2-13 X 1-1/2 SHCS GR 8 ECOGD-GMET321	2
3	0410410	M6 X 1.0 STRAIGHT GREASE FITTING SS	4
4	0410412	GREASE FITTING, M10-1.0 STRAIGHT	1
5	26113039	SAFETY SNAP PIN	2
6	26687394	BUSHING ALUM.BRONZE	1
7	26687395	BUSHING ALUM.BRONZE	1
8	26687398	WASHER-CROSSBAR FRONT THRUST	1
9	26687399	WASHER-REAR THRUST	1
10	26687400	COLLAR - TOP	1
11	26687401	COLLAR-BOTTOM	1
12	26687407	THRUST WASHER (.25 THK) XBAR ASSY	1
13	26687409	PIN, CROSSBAR PIVOT	1
14	26688055	PIN-LOCK	2
15	26688057	TOP COVER PLATE WLMT	2
16	26688084	CROSSBAR HUB WLMT	1
17	27323093	CABLE, LANYARD 18"	1
18	27328121	PIVOT CROSSBAR WLMT-FRENCH	1
19	29389037	PIN - LANYARD ASSY	1
20	945510006	BEARING - ALUMINUM BRONZE	2
21	945510007	THRUST WASHER (.19 THK) XBAR ASSY	1

Section I - PARTS (cont'd)

UNDERLIFT HYDRAULICS

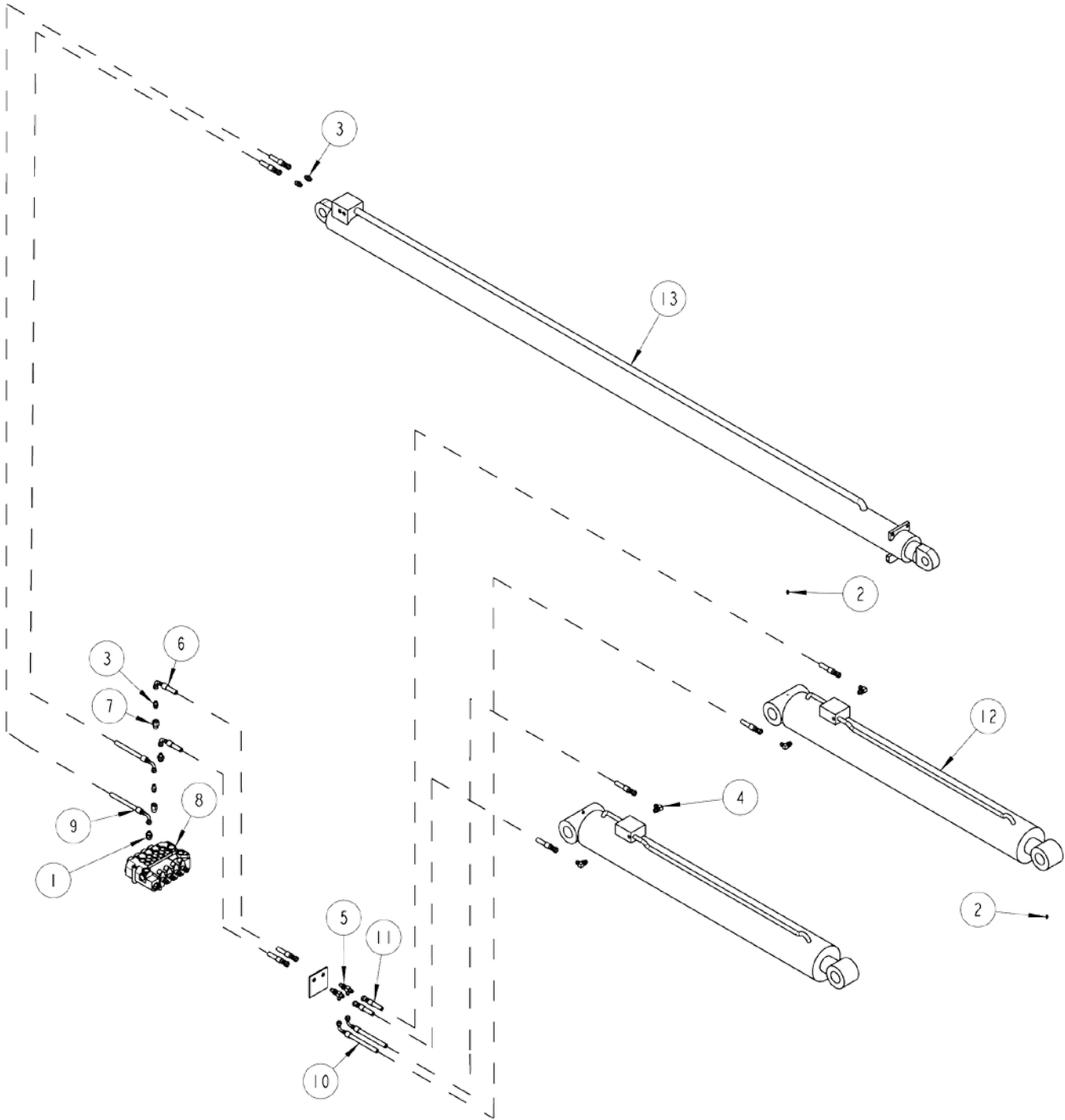


Section I - PARTS (cont'd)

UNDERLIFT HYDRAULICS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	0300044	CONNECTOR 6MJX8MB	7
2	0301470	FITTING - HYDRAULIC ELBOW 6MJ-8MB90	4
3	0301473	HOSE ASSEMBLY, 18" LG	2
4	0301522	CONNECTOR 6MJ-6MB	4
5	0301619	BRANCH TEE, 6MJ-6MJ-6MB	1
6	0301620	FITTING, ELBOW, 6MJ-6MB90	3
7	0301730	DOUBLE HOLDING VALVE	1
8	0301837	INLINE ORIFICE	1
9	0302000	HOSE ASSY - 24" LG	1
10	0302035	HOSE ASSEMBLY, 18" LG	1
11	0302514	ADAPTER, 8MJ-6MJ	12
12	0302548	CLAMPING UNIT (SET) HC-10-6	6
13	0302549	SPLIT BUSH RUBBER C-SB10-8 1/2	18
14	0302551	SOCKET HEAD C-SN-10	6
15	0302552	WELD ADAPTER, C-WA-10	6
16	0302596	HOSE ASSY - 34" LG	1
17	0302604	HOSE ASSY - 44" LG	2
18	0302605	HOSE ASSEMBLY - 44" LG	2
19	0302624	TUBE ASSEMBLY	6
20	0302637	HOSE ASSEMBLY - 72" LG	1
21	0302805	HOSE ASSY - 10" LG	2
22	0302812	HOSE ASSY - 78" LG.	1
23	0302813	HOSE ASSY - 108" LG	2
24	0302842	ELBOW, 8MJ-8MB90	2
25	0302914	HOSE ASSEMBLY, 35" LG	1
26	0302915	HOSE ASSEMBLY, 12" LG	2
27	0303017	CONNECTOR 8MBX6FB	1
28	0303094	VALVE, 5 SPOOL PARKER	1
29	0303563	HOSE ASSEMBLY, 27" LG	1
30	0306746	CYLINDER - HYDRAULIC FOLD	1
31	0307040	CYL - U/L TILT	2
32	0307041	U/L EXTEND CYLINDER	1
33	0307106	CONNECTOR 4MBX6FB	1
34	0307107	VALVE HOLDING 4000 PSI SAE	1
35	0400078	1/4-20 X 2 HHCS GR5 ZP	4
36	0400118	5/16-18 X 3/4 HHCS GR.5 ZP	6
37	0400367	1/4-20 NYLOCK HEX NUT ZP	4
38	0400451	1/4 FLAT WASHER ZP	2
39	0402110	1/4 FLATWASHER 316 STAINLESS	2

Section I - PARTS (cont'd)
RECOVERY BOOM HYDRAULICS

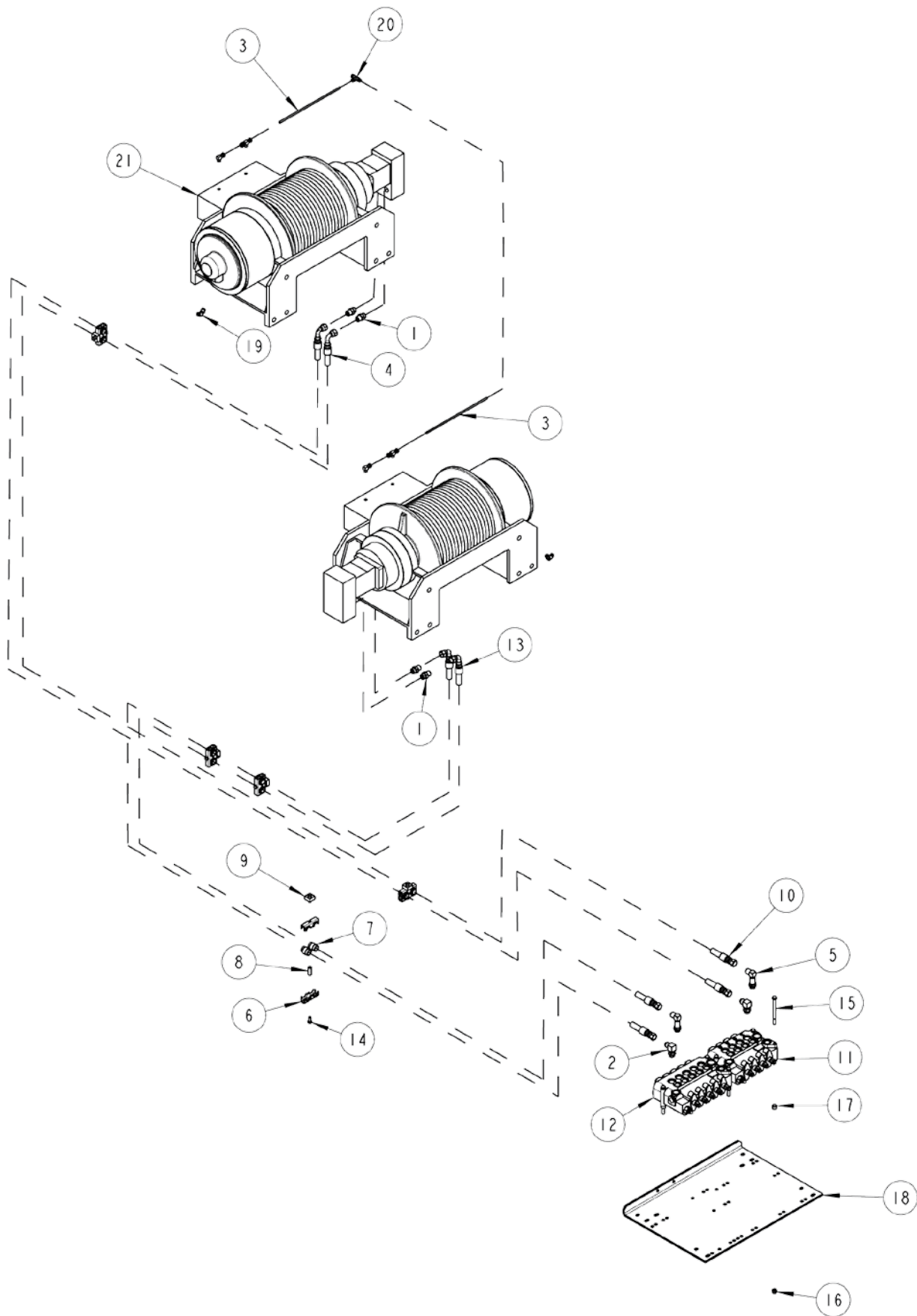


Section I - PARTS (cont'd)**RECOVERY BOOM HYDRAULICS**

ITEM	PART NUMBER	DESCRIPTION	QTY
1	0300044	CONNECTOR 6MJX8MB	2
2	0300113	GREASE FITTING, 1/4-28 STRAIGHT	4
3	0301522	CONNECTOR 6MJ-6MB	4
4	0301620	FITTING, ELBOW, 6MJ-6MB90	4
5	0302575	BLKHD RUN TEE, 6MJ-6BLKHD-6MJ W/NUT	2
6	0302585	HOSE ASSEMBLY - 54" LG	2
7	0303017	CONNECTOR 8MBX6FB	2
8	0303093	CONTROL VALVE, VDP11DDDC110	1
9	0303170	HOSE ASSY - 75" LG.	2
10	0303389	HOSE ASSY - 46" LG.	2
11	0303394	HOSE ASSEMBLY - 46" LG	2
12	0307012	CYLINDER, BOOM LIFT (5035)	2
13	0307082	CYLINDER - BOOM LIFT	1

Section I - PARTS (cont'd)

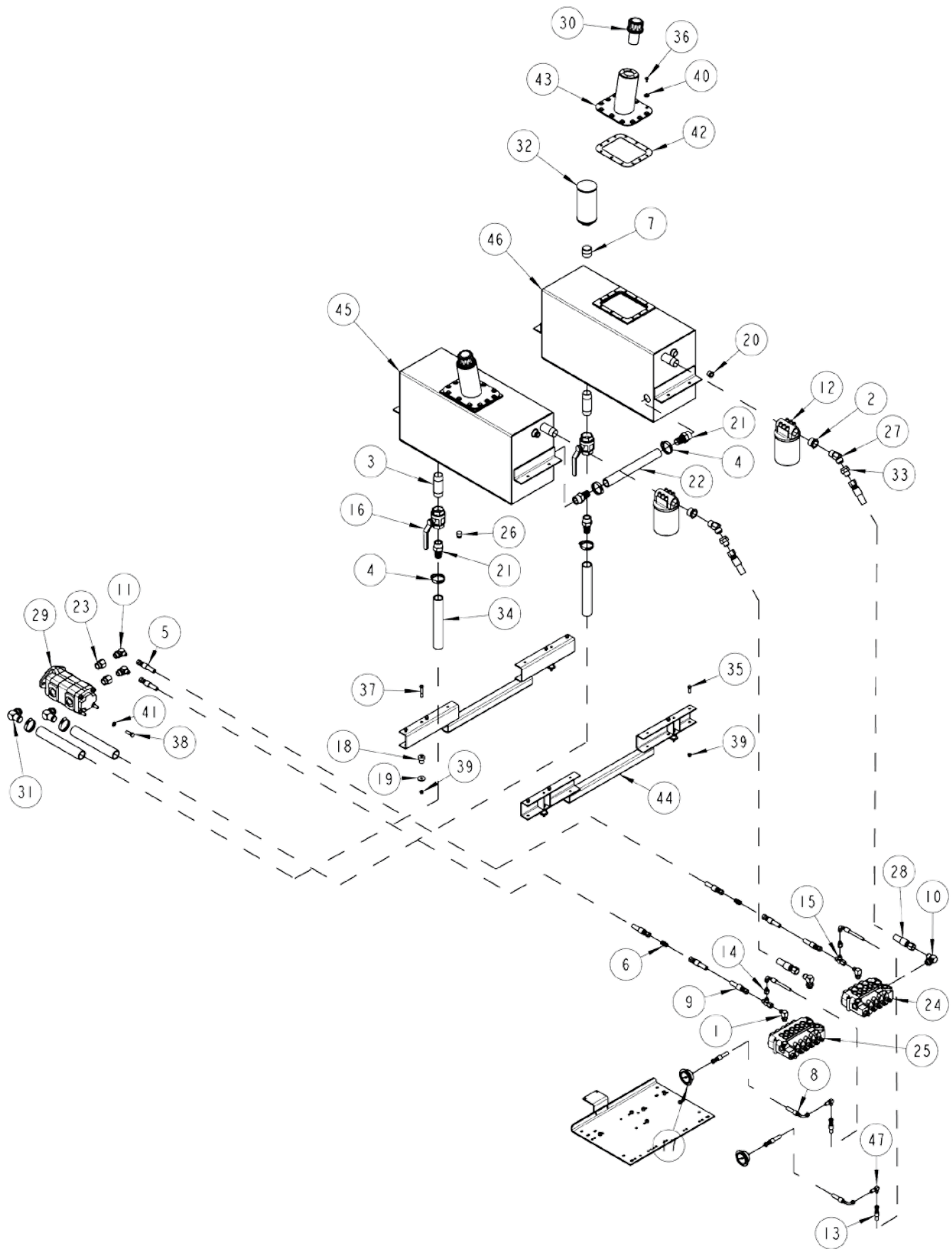
WINCH HYDRAULICS & AIR FREE SPOOL



Section I - PARTS (cont'd)**WINCH HYDRAULICS & AIR FREE SPOOL**

ITEM	PART NUMBER	DESCRIPTION	QTY
1	0300041	CONNECTOR 8MJX8MB	4
2	0301388	ELBOW, 8MJ-8MB90	2
3	0301577	TUBING- PLASTIC 1/4 OD X 5" AIR LINE	2
4	0301893	HOSE ASSEMBLY - 84" LG	2
5	0302508	ELBOW, 8MJ-8MB90LL	2
6	0302546	CLAMPING UNIT (SET) HC-10-2	10
7	0302550	SPLIT BUSH RUBBER C-SB10-12 3/4	10
8	0302551	SOCKET HEAD C-SN-10	5
9	0302552	WELD ADAPTER, C-WA-10	5
10	0302955	HOSE ASSY - 48 1/4"	4
11	0303093	CONTROL VALVE, VDP11DDDC110	1
12	0303094	VALVE, 5 SPOOL PARKER	1
13	0303391	HOSE ASSY - 110"	2
14	0400118	5/16-18 X 3/4 HHCS GR.5 ZP	5
15	0400135	3/8-16 X 4-1/2 HHCS GR 5 ZP	6
16	0400392	3/8-16 NYLOCK HEX NUT ZP	6
17	0704045	SPACER, CONTROL VALVE	6
18	0717827	PLATE - VALVE MOUNTING	1
19	9010520	FITTING - ELBOW,1/4T-1/4NPT MALE	2
20	9011071	FITTING,BRASS TEE 1/4T-1/4T-1/4T	1
21	9048248	WINCH DP 2-SPD 25K NARROW DRUM	1

Section I - PARTS (cont'd) **PUMP, VALVE & FILTER HYDRAULICS**



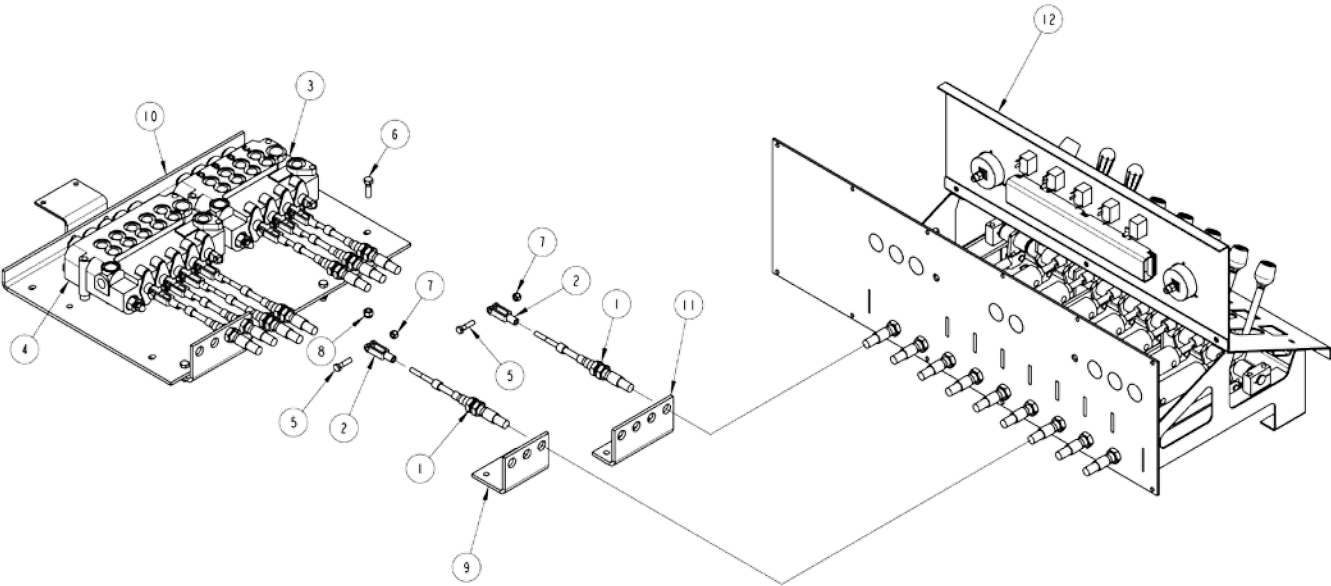
Section I - PARTS (cont'd)

PUMP, VALVE & FILTER HYDRAULICS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	0300052	ELBOW, 8MJ-10MB90	2
2	0300287	PIPE BUSHING, 1 1/4" TO 1" NPT REDUCER	2
3	0300348	NIPPLE - 1-1/2 X 5	2
4	0300364	HOSE CLAMP, 7/8" TO 2-3/4"	6
5	0300660	HOSE ASSEMBLY - 120" LG	2
6	0300865	ADAPTER, 8MJ-6MJ	2
7	0301350	PIPE, 1-1/2" CLOSE NIPPLE	2
8	0301473	HOSE ASSEMBLY, 18" LG	2
9	0301529	HOSE ASSEMBLY - 58 LG.	2
10	0301545	ELBOW, 12MJ-12MB90	2
11	0301547	ELBOW, 8MJ-12MB90	2
12	0301894	FILTER ASSEMBLY, SPIN ON	2
13	0301965	HOSE ASSEMBLY, 131" LG.	2
14	0301995	ADAPTER, 8FJ-6MJ STRAIGHT	2
15	0302052	RUN TEE, 8MJ-8MJ-8FJX	2
16	0302088	BALL VALVE - 1 1/2 BRONZE	2
17	0302205	GAUGE, FLUSH MOUNT 6000 PSI	2
18	0302227	CENTER BONDED MOUNT	4
19	0302228	SPECIAL WASHER	4
20	0302570	SIGHT GAUGE	2
21	0302698	HOSE BARB, 1-1/4"	4
22	0302756	SUCTION HOSE, 1-1/4" ID (100R4)	1
23	0302906	ADAPTER, 16MB-12FB	2
24	0303093	CONTROL VALVE, VDP11DDDC110	1
25	0303094	VALVE, 5 SPOOL PARKER	1
26	0303155	PIPE PLUG - 3/4 NPT (MAGNETIC)	2
27	0303338	ELBOW, 16MJ-16MP45	2
28	0303392	HOSE ASSEMBLY - 73" LG	2
29	0303867	PUMP, BI-ROTATIONAL	1
30	0305006	FILLER CAP	2
31	0306539	HOSE BARB, 20HOSE-16MB90	2
32	0307344	SUCTION STRAINERS	2
33	0307345	CONNECTOR, 16MJ-20MP	2
34	0310010	SUCTION HOSE, 1-1/2" I.D. 100R4	2
35	0400122	3/8-16 X 1 1/4 HHCS GR.5,ZP	8
36	0400149	3/8-16 X 5/8 HHCS GR5 ZP	24
37	0400150	3/8-16 X 2-1/2 HHCS GR5 ZP	4
38	0400181	1/2-13 X 1-1/2 HHCS GR 5 ZP	2
39	0400392	3/8-16 NYLOCK HEX NUT ZP	12
40	0400480	3/8 FLAT WASHER ZP	24
41	0400491	1/2 HELICAL LOCK WASHER ZP	2
42	0706114	GASKET - CLEANOUT & FILLER COVER	2
43	0802747	FILLER PIPE WELD'T	2
44	0803193	SUPPORT - RESERVOIR WELDMENT	2
45	0806653	RESERVOIR LEFT WELDMENT	1
46	0806654	RESERVOIR RIGHT WELDMENT	1
47	FC41	ELBOW - BULKHEAD	2

Section I - PARTS (cont'd)

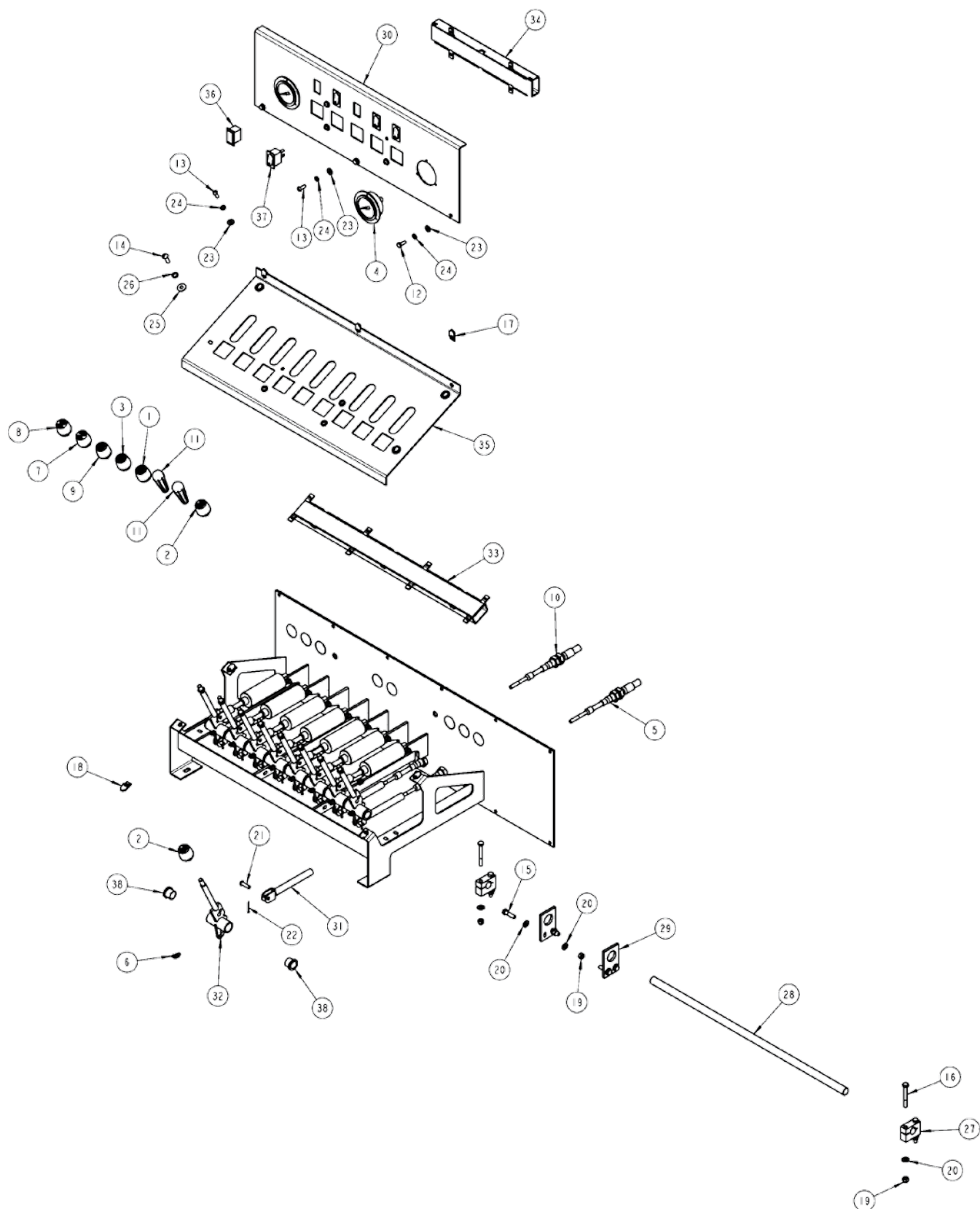
CONTROL ASSEMBLY



Section I - PARTS (cont'd)**CONTROL ASSEMBLY**

ITEM	PART NUMBER	DESCRIPTION	QTY
1	0302457	CONTROL CABLE	9
2	0303008	CLEVIS, ADJUSTABLE	9
3	0303093	CONTROL VALVE, VDP11DDDC110	1
4	0303094	VALVE, 5 SPOOL PARKER	1
5	0400103	5/16-18 X 1 1/4 HHCS GR5 ZP	9
6	0400122	3/8-16 X 1 1/4 HHCS GR5 ZP	6
7	0400382	5/16-18 NYLOCK HEX NUT ZP	9
8	0400392	3/8-16 NYLOCK HEX NUT ZP	6
9	0711250	PLATE - CONTROL BOX	1
10	0717064	PLATE - VALVE MOUNTING	1
11	0722313	PLATE-CONTROL BULKHEAD-SGL	2
12	30379008	CONTROL ASSEMBLY, RH	1

Section I - PARTS (cont'd) **RIGHT CONTROL ASSEMBLY**



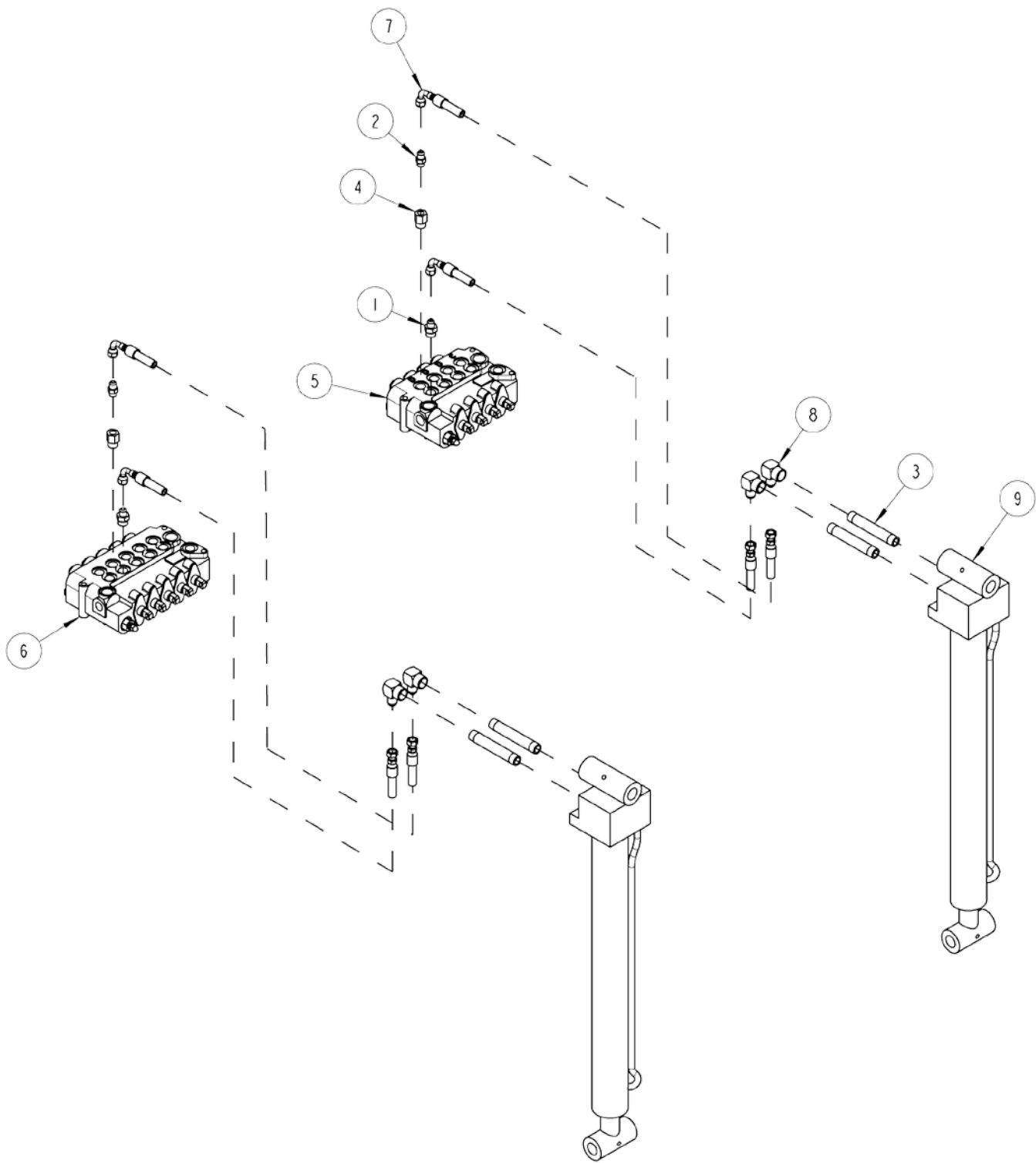
Section I - PARTS (cont'd)

RIGHT CONTROL ASSEMBLY

ITEM	PART NUMBER	DESCRIPTION	QTY
1	0300835	KNOB, BOOM (UP-DN)	1
2	0300836	KNOB, JACK (UP-DN)	2
3	0300837	KNOB, BOOM (IN-OUT)	1
4	0302205	GAUGE, FLUSH MOUNT 6000 PSI	2
5	0302457	CONTROL CABLE	3
6	0302726	GREASE FITTING, 1/4"-28 X 45°	9
7	0302856	KNOB, TILT (UP-DN)	1
8	0302917	KNOB, WHL LIFT EXT (IN-OUT)	1
9	0303382	KNOB, FOLD (UP-DN)	1
10	0303427	CONTROL CABLE	6
11	0307604	KNOB - RED LONG	2
12	0400066	1/4-20 X 3/4 HHCS GR5 ZP	3
13	0400071	SCREW, 1/4"-20 X 3/4" RD HD PHIL SS	8
14	0400101	SCREW, 5/16"-18 X 1" RD HD SLOTTED SS	4
15	0400103	5/16-18 X 1 1/4 HHCS GR5 ZP	4
16	0400107	5/16-2.5 X 2-1/2 HHCS	4
17	0400369	1/4 "J" TYPE TINNERMAN	3
18	0400379	CLIP, 5/16" "J" TYPE TINNERMAN	4
19	0400382	5/16-18 NYLOCK HEX NUT ZP	8
20	0400463	5/16 FLAT WASHER ZP	12
21	0400532	5/16 X 1 CLEVIS PIN ZP	9
22	0400540	COTTER PIN, 3/32" X 1"	9
23	0402110	1/4 FLATWASHER 316 STAINLESS	11
24	0402111	1/4 LOCKWASHER 316 STAINLESS	11
25	0402117	5/16 FLATWASHER 316SS	4
26	0402118	5/16 HELICAL LOCKWASHER SS	4
27	0711235	CLAMP - SHAFT	2
28	0717198	PIN - CONTROL HANDLE (9)	1
29	0717461	PLATE - SHAFT SUPPORT	2
30	0719060	PANEL - GAUGE (9)	1
31	0806006	CLEVIS WELDMENT	9
32	0806515	CONTROL HANDLE WLMT	9
33	0908784	ILLUMINATED LEGEND ASSY	1
34	0908797	ILLUMINATED LEGEND ASSY	1
35	0908813	ILLUMINATED LEGEND ASSY LEFT LOWER	1
36	9024011	MCGILL AMBER LIGHT	1
37	9024041	MCGILL SWITCH	4
38	9053524	BRONZE BUSHING (.752 X .879 X .750)	18

Section I - PARTS (cont'd)

REAR SPADE HYDRAULICS

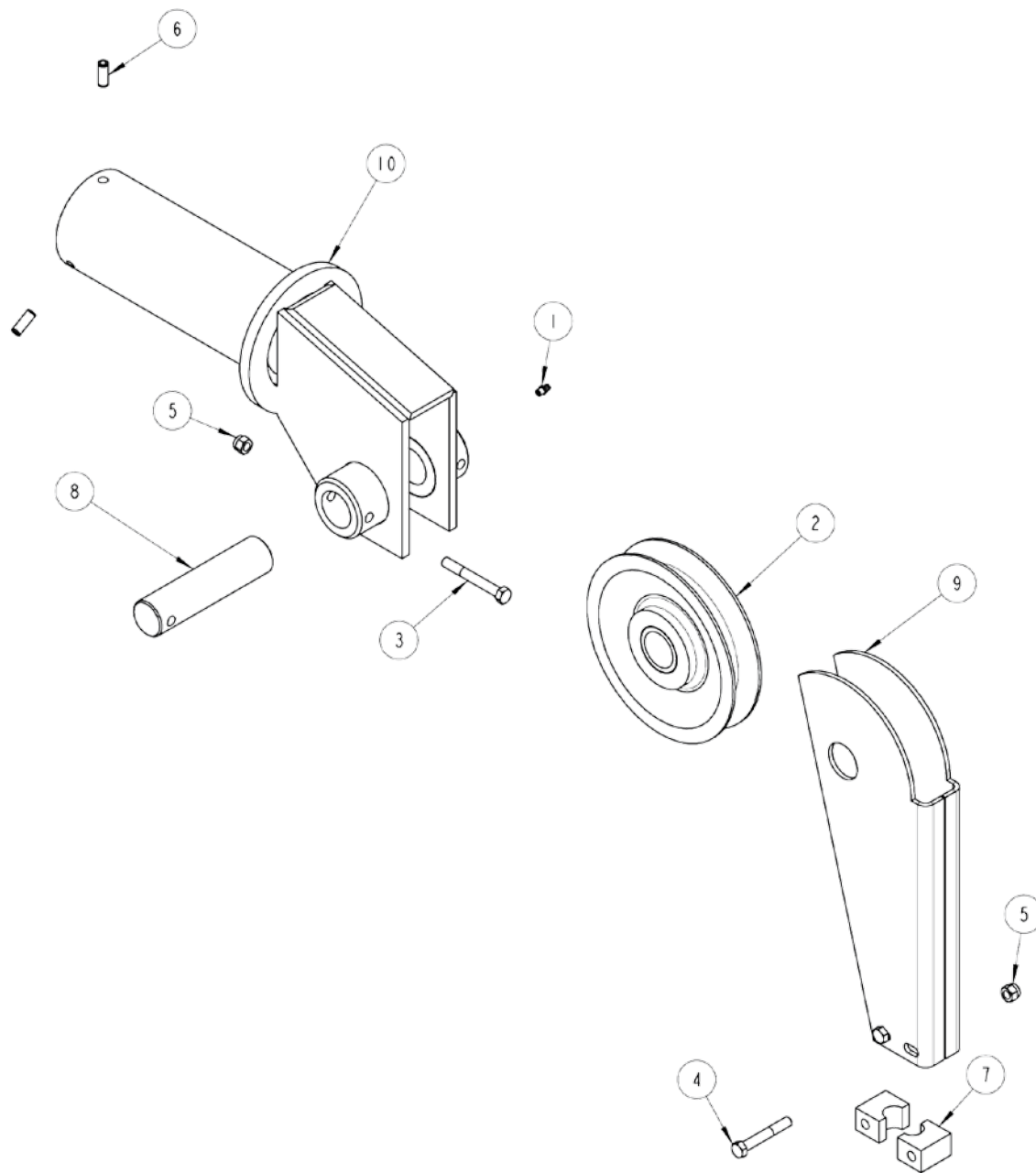


Section I - PARTS (cont'd)**REAR SPADE HYDRAULICS**

ITEM	PART NUMBER	DESCRIPTION	QTY
1	0300044	CONNECTOR 6MJX8MB	2
2	0301522	CONNECTOR 6MJ-6MB	2
3	0302980	PIPE NIPPLE, 1/2" NPT X 5"	4
4	0303017	CONNECTOR 8MBX6FB	2
5	0303093	CONTROL VALVE, VDP11DDDC110	1
6	0303094	VALVE, 5 SPOOL PARKER	1
7	0303748	HOSE ASSEMBLY, 32"	4
8	0307045	ELBOW, 6MJ-8MP90	4
9	0310013	CYLINDER, HYDRAULIC TI S24023424PPBZ	2

Section I - PARTS (cont'd)

BOOM SWIVEL ASSEMBLY



ITEM	PART NUMBER	DESCRIPTION	QTY
1	0300113	GREASE FITTING, 1/4-28 STRAIGHT	1
2	0300626	SHEAVE - 8"	1
3	0400133	3/8-16 X 3 HHCS GR.5,ZP	1
4	0400150	3/8-16 X 2-1/2 HHCS GR5 ZP	2
5	0400392	3/8-16 NYLOCK HEX NUT ZP	3
6	0400554	3/8 X 1 ROLL PIM ZP	3
7	0700801	BOTTOM CABLE GUIDE	2
8	0716134	SHEAVE SHAFT	1
9	0800286	CABLE GUIDE WELDMENT	1
10	0804448	BOOM END SWIVEL WELDMENT	1

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