

HAMMERHEADTM

HG12 Winch



Parts Manual

HG12 Winch

INTRODUCTION

HOW TO USE THE MANUAL

This manual contains illustrations and parts list of components and assemblies which make up the machine. Each page consists of the name of the assembly or component, a figure number, reference numbers, part numbers, part names, and the quantities of the parts used.

Assembly or component names help identify the illustration and parts for each figure. This name also helps locate the general area of the machine where the assembly or component can be located.

Figure numbers are used to identify each assembly or component and to group these assemblies or components into major categories.

Reference numbers shown in a column refers to the numbered parts in the illustration. This ties the part in the illustration to the part number and description in the parts list. Part numbers are used to identify individual parts or part assemblies.

Part descriptions provide the name of the part, plus additional information such as dimensional specifications and what parts are grouped together to form part assemblies, which helps you identify the part(s).

Quantities listed for each figure are only for that assembly or component and not the total used per machine unless stated so in the “Remarks” column.

Parts are listed by part number in numerical order in the back portion of the manual. After each part number is a list of references where the part is used in the manual.

This parts manual is not intended to be a complete guide for machine service or repairs. Contact your HammerHead dealer for any of your service or technical requirements.

ORDERING PARTS

Parts for repair or replacement are available through the worldwide network of authorized HammerHead dealers.

Use only authorized HammerHead parts for repair or replacement. Always give the serial number and model number of the machine for which parts are being

ordered. When ordering parts for component(s), which are not manufactured by HammerHead Manufacturing, also give the serial number of that component(s). Order all parts by part number, part name, and quantity needed.

UPDATING AND REORDERING MANUALS

The parts lists, illustrations, and specifications in this manual are based on the latest information available at the time of publication. Your machine may have product improvements and options not yet contained in this manual. Please check the web site www.hammerheadmole.com for any updates.

Earth Tool Co., LLC reserves the right to make changes at any time without notice or obligation to you.

Your dealer will receive notice of these changes and can assist you with accurate parts identification when ordering.

A copy of this manual is supplied with each machine. Additional copies are available through your dealer. When ordering additional manuals, use the reorder number listed on the front cover and the quantity needed.

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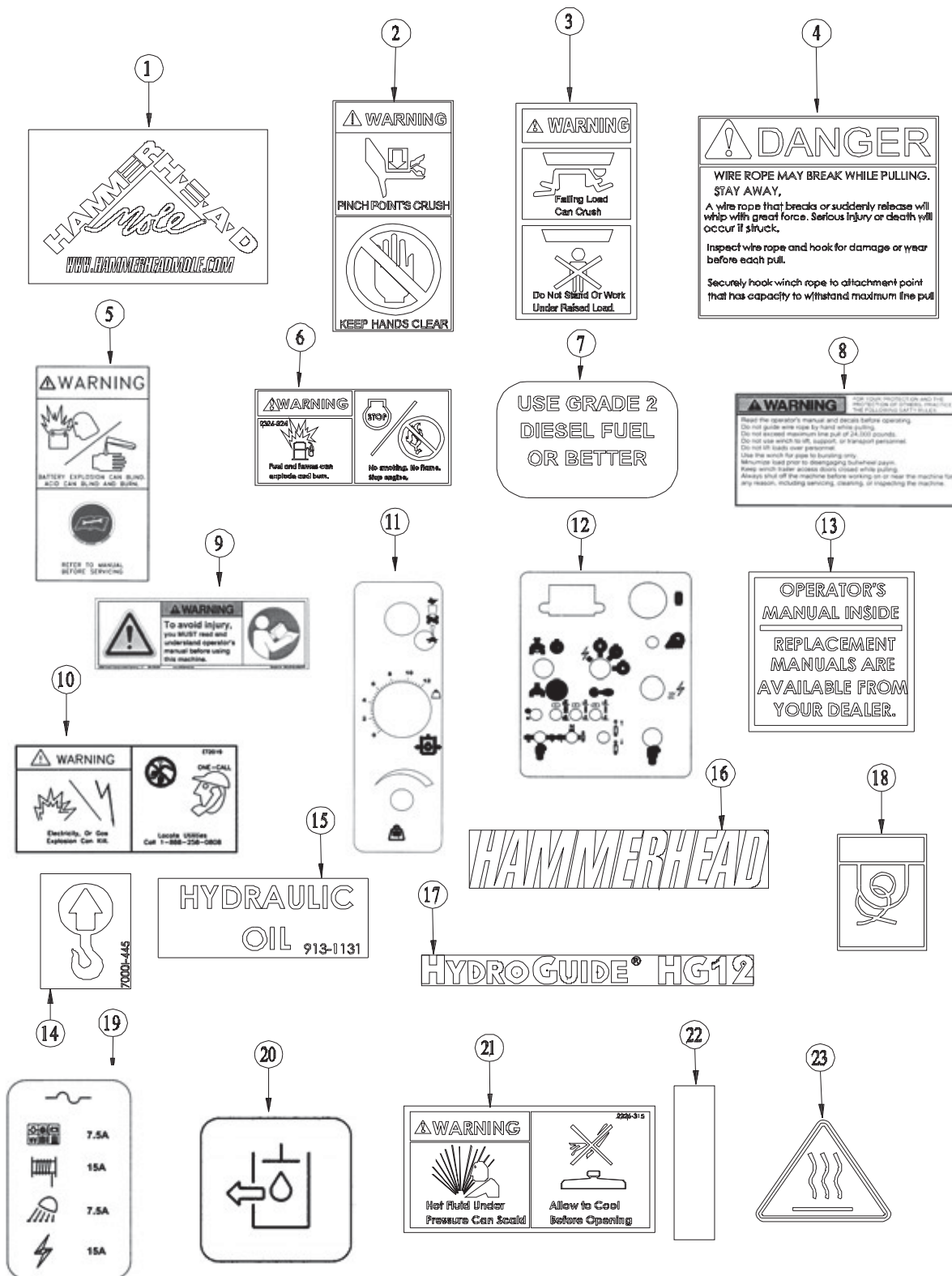
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DECAL ASSEMBLY

SECTION 10

DECAL ASSEMBLY

Figure 10-1

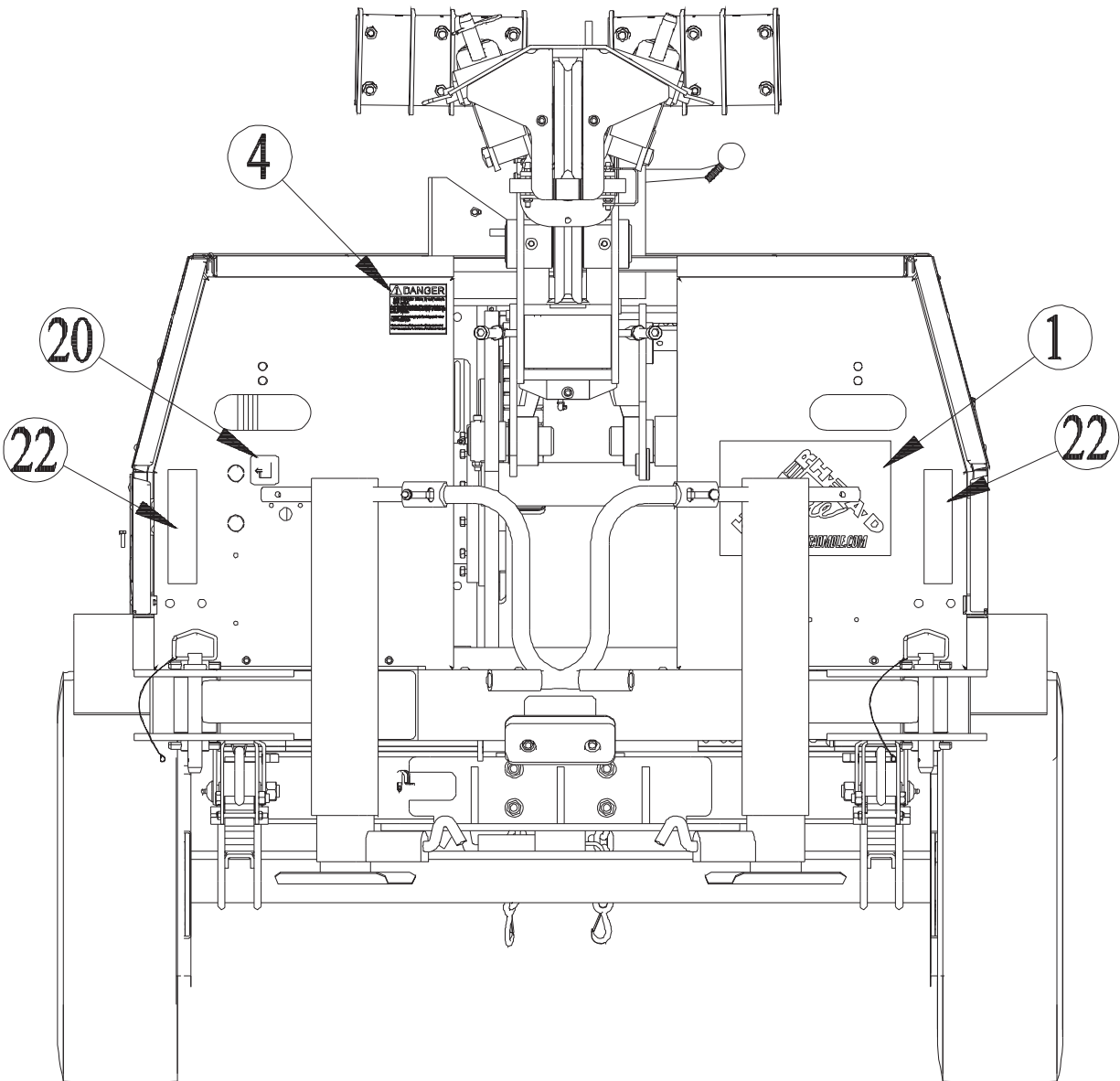


DECAL ASSEMBLY

No.	Part No.	Description	Qty.	Remarks
1	296270-645	Decal, W W W.Hammerhead Large	3	
2	296274-915	Decal, Pinch Point	4	
3	7000A-815	Decal, Falling Load	3	
4	70000-469	Decal, Danger	1	
5	70000-044	Decal, Warning Battery	1	
6	2326-324	Decal, Refueling Warning	1	
7	70000-098	Decal, Diesel Fuel	1	
8	7000A-507	Decal, Warning Operation	1	
9	70000-684	Decal, Read Manual	1	
10		Decal, One Call	1	ET2019
11	296274-897	Decal, Gauge Panel	1	
12	296274-896	Decal, Operator Panel	1	
13	70000-294	Decal, Op Manual	1	
14	70001-445	Decal, Lift Point	2	
15	2326756	Decal, Hydraulic Oil	1	
16	296270-643	Decal, Hammerhead 30"	3	
17	296274-895	Decal, Hydroguide HG12	2	
18	70000-834	Decal, Tie Down (Small)	4	
19	296274-946	Decal, Fuse Panel	1	
20	296274-945	Decal, Hydraulic Power Beyond	1	
21	2326-315	Decal, Coolant Warning	1	
22	70000-170	Decal, Reflector	2	
23	296274-916	Decal, Hot	1	

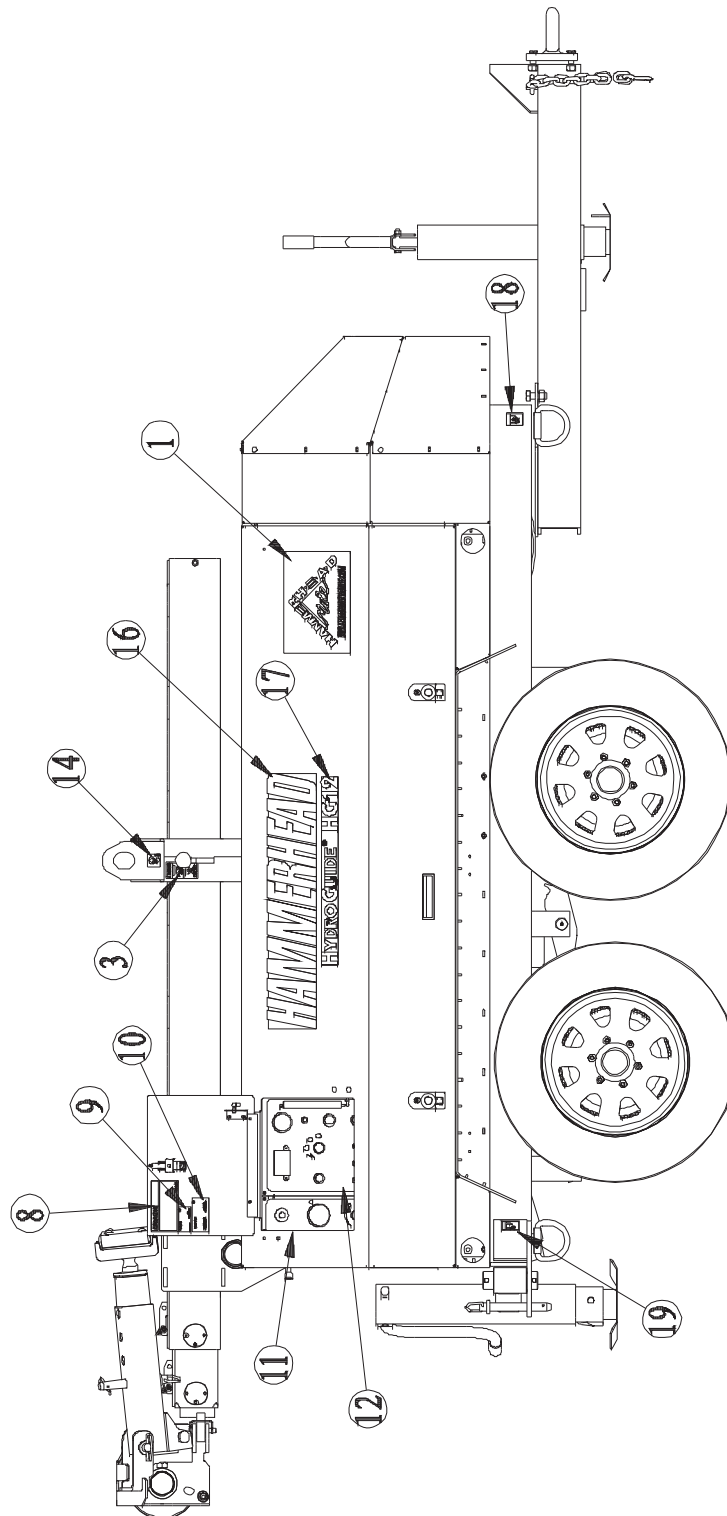
DECAL LOCATION (Rear)

Figure 10-2



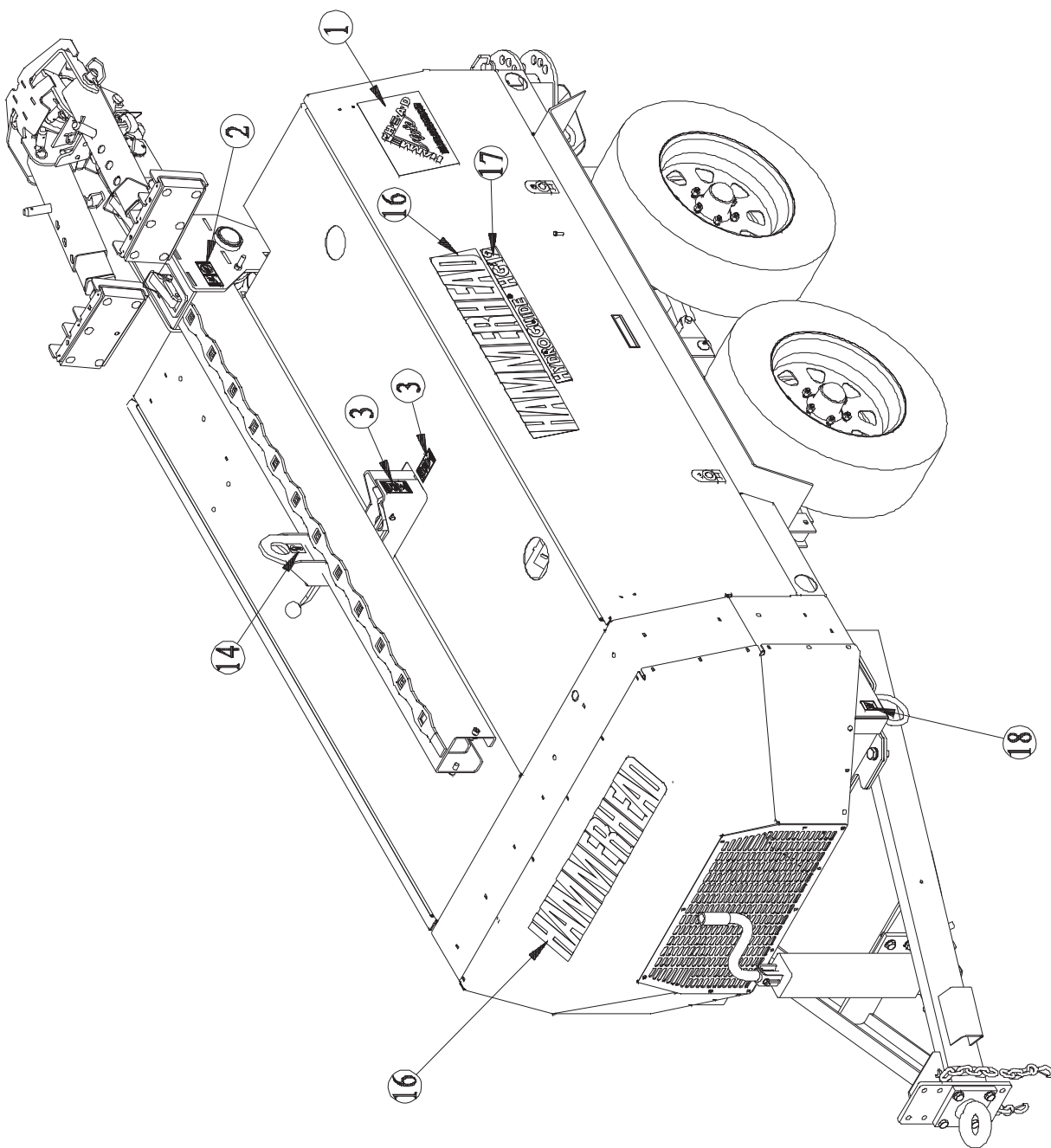
DECAL LOCATION (Right Side)

Figure 10-3



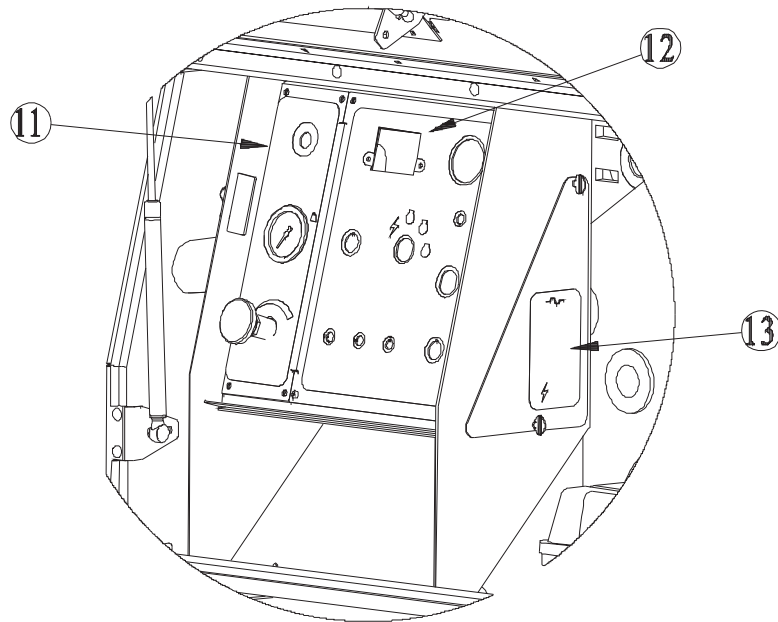
DECAL LOCATION (Left Side And Top)

Figure 10-4

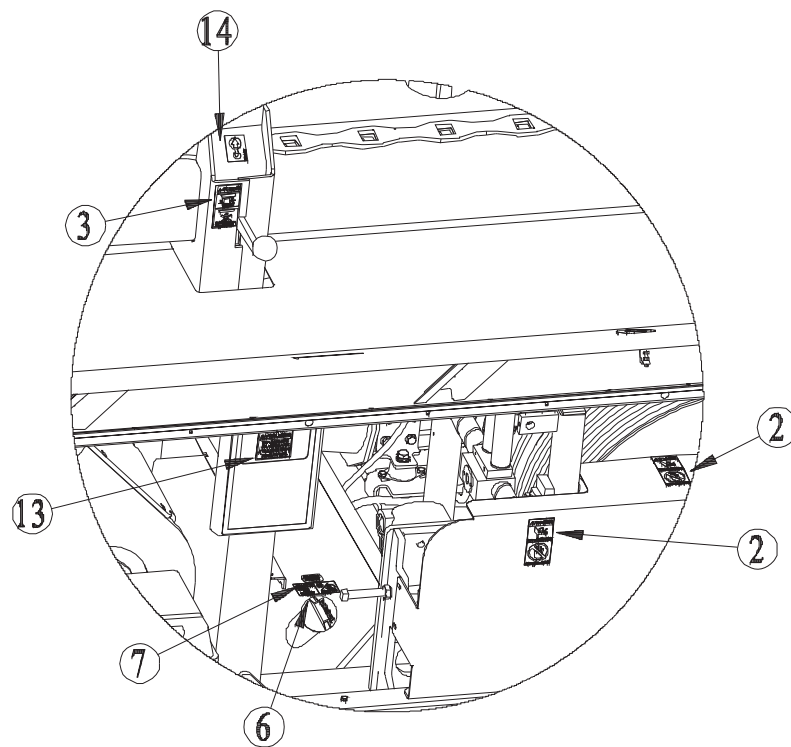


DECAL LOCATION (Control Panel, Fuel Tank And Chain Guard)

Figure 10-5



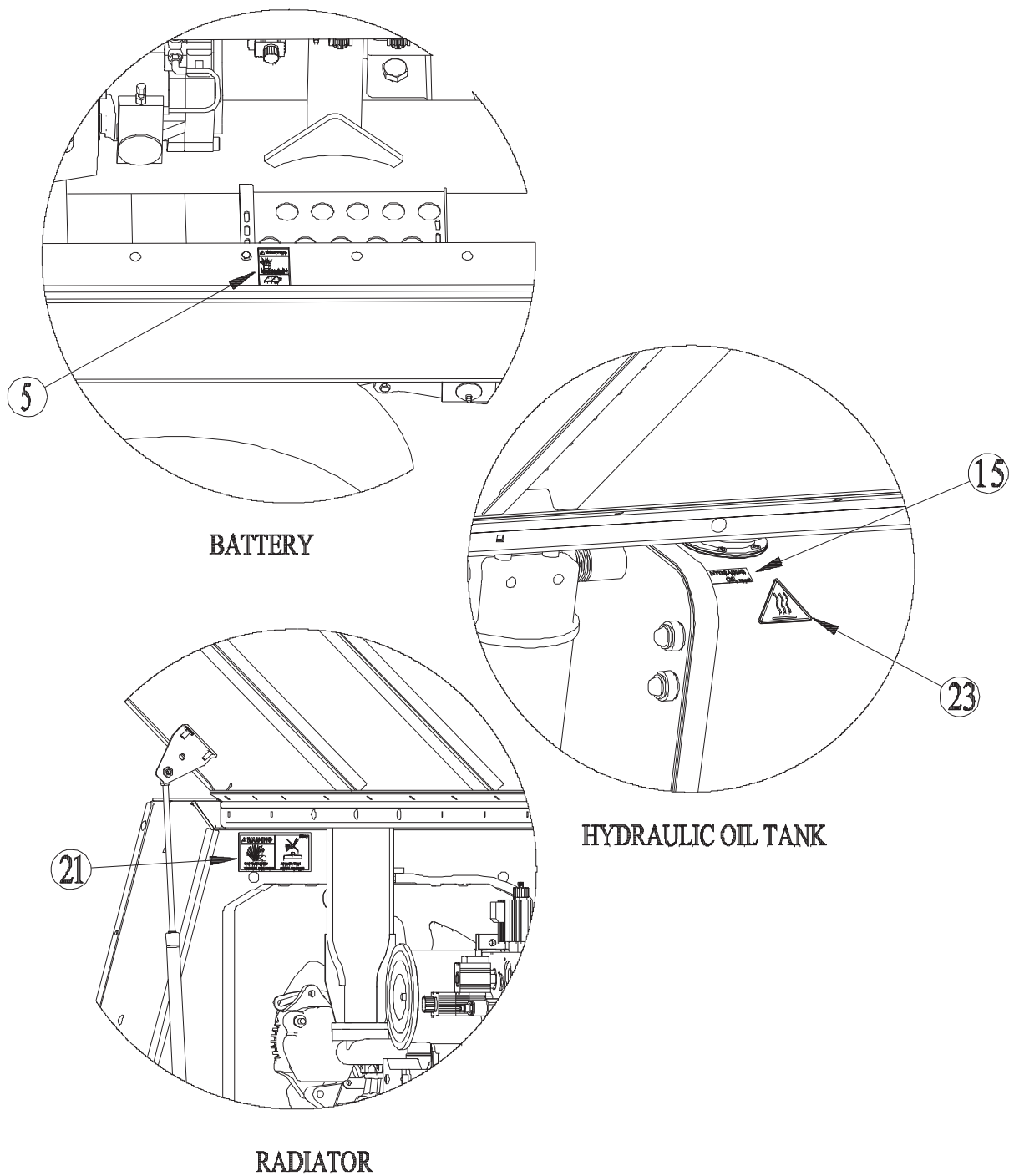
CONTROL PANEL



FUEL TANK AND CHAIN GUARD

DECAL LOCATION (Radiator, Battery, Hydraulic Oil Tank)

Figure 10-6

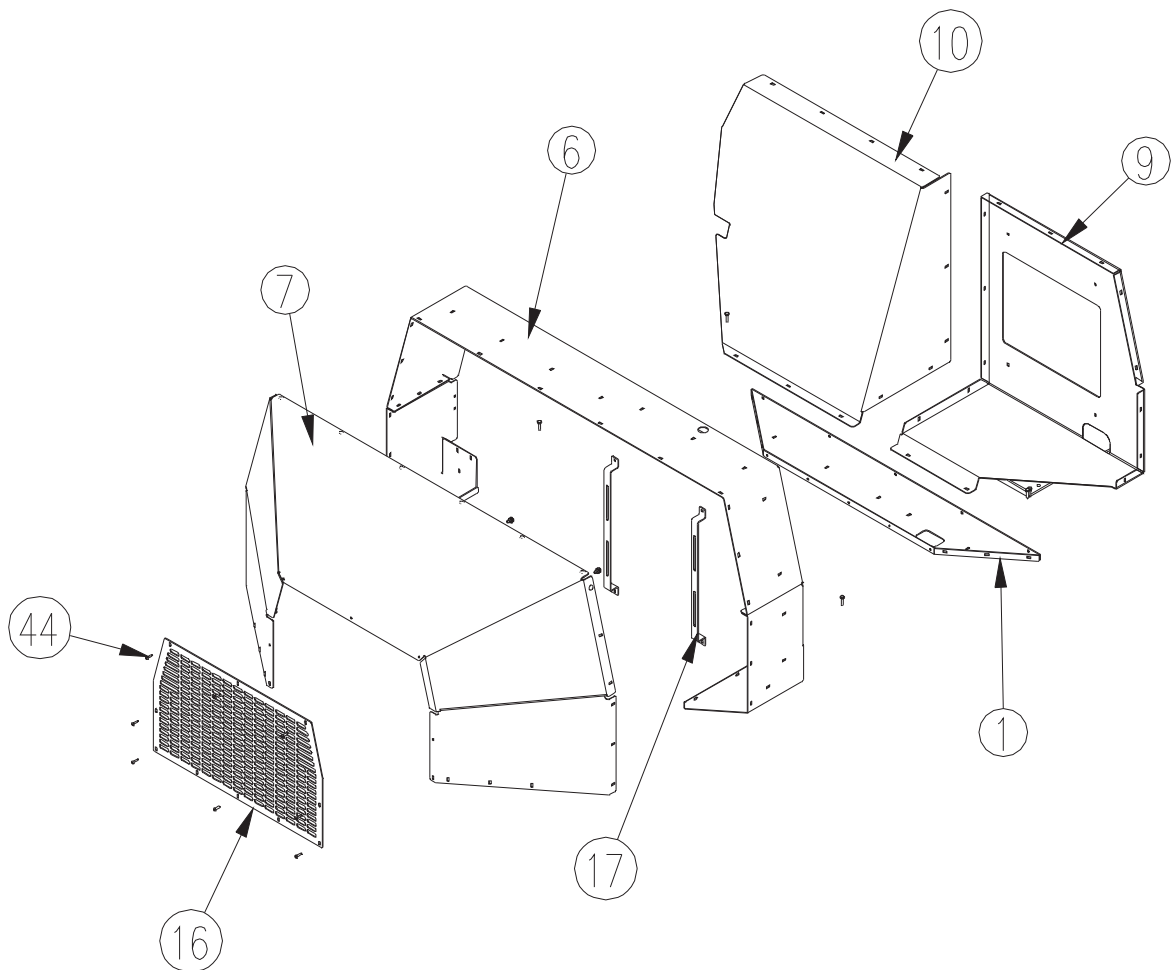


SHEET METAL ASSEMBLY

SECTION 20

SHEET METAL ASSEMBLY (1 of 4)

Figure 20-1

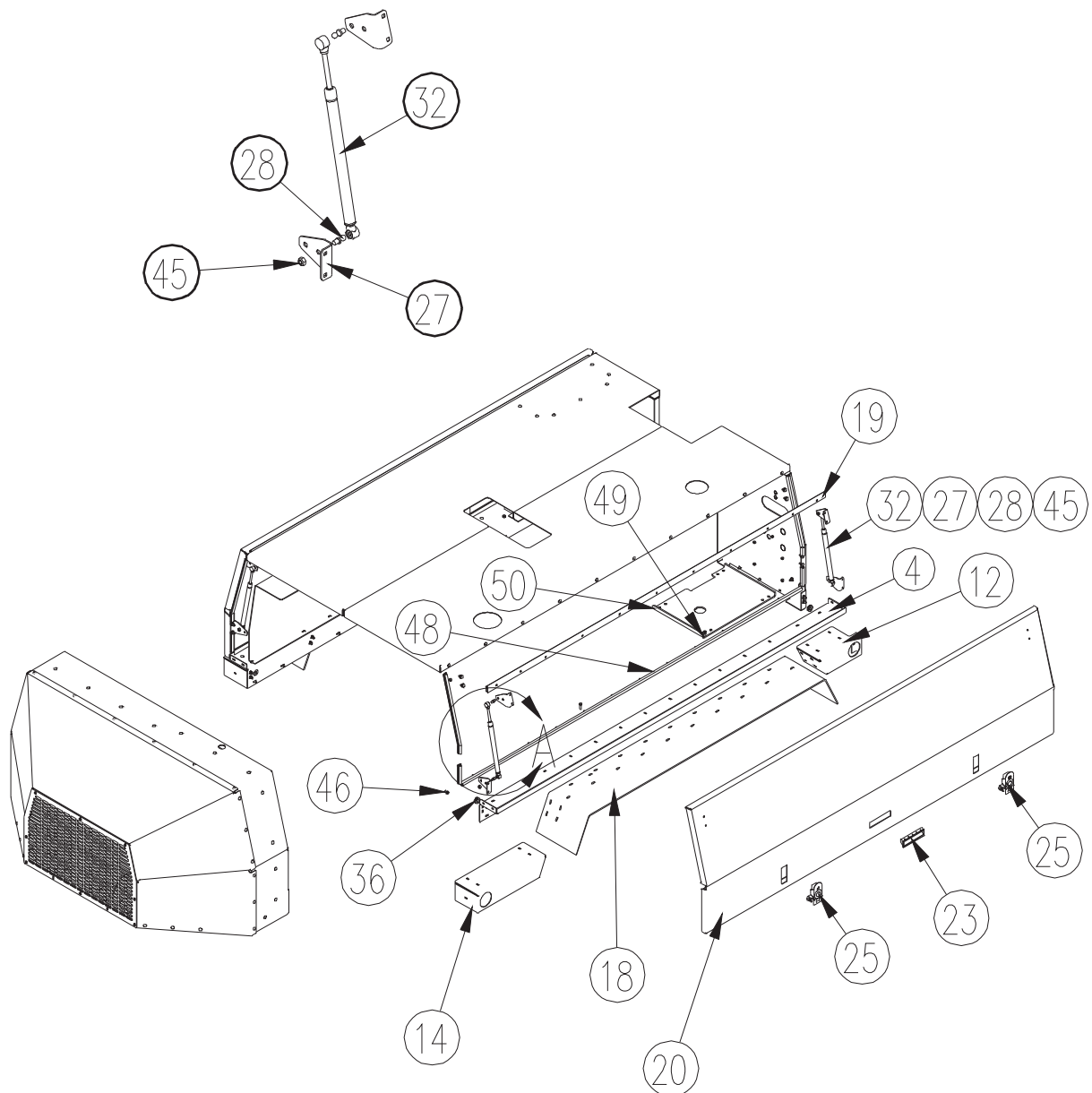


SHEET METAL ASSEMBLY (1 of 4)

No.	Part No.	Description	Qty.	Remarks
1	296271-835	Nose Tray	1	
2	296271-836	Back Panel, Left	1	
3	296271-837	Back Panel, Right	1	
4	296271-838	Wheel Well, Left	1	
5	296271-839	Wheel Well, Right	1	
6	296271-840	Arch Assembly	1	
7	296271-841	Nose Assembly	1	
8	296271-842	Control Panel Weldment	1	
9	296271-843	Baffle Panel, Left	1	
10	296271-844	Baffle Panel, Right	1	
11	296271-845	Control Panel Door	1	
12	296271-846	Light Panel, Rear Left	1	
13	296271-847	Light Panel, Rear Right	1	
14	296271-848	Light Panel, Front Left	1	
15	296271-849	Light Panel, Front Right	1	
16	296271-850	Grill	1	
17	296271-827	Mount, Hyd. Cooler	2	
18	296271-855	Fender	2	
19	296271-851	Hinge, 84.65	2	
20	296271-852	Door Weldment, Left	1	
21	296271-853	Door Weldment, Right	1	
22	296271-854	Hinge, 12.25	1	
23	296271-859	Handle, Plastic	2	
24	229229-059	Latch, Sm	1	
25	296271-858	Latch, Lg	4	
26	296271-856	Spring Brkt Long Foot	1	
27	296271-857	Brkt, Gas Spring	9	
28	296271-833	Stud, Gas Spring Ball	10	
29	296271-828	Control Panel, Left	1	
30	296271-829	Control Panel, Right	1	
31	296271-830	Control Panel Shield	1	
32	296271-831	Air Cylinder-Main Door	4	
33	296271-834	Socket, Ball	2	
34	296274-899	Roof Weldment, Right	1	
35	296274-900	Roof Weldment, Left	1	
36	81315-001	Grommet, Rubber	5	
37	296271-995	Chain Guard	1	
38	286589-001	Screw, 5/16-18 x 1/2" Thumb	2	
39	296271-832	Air Cylinder, Con Pan Door	2	
43	296271-964	Washer, 5/16", Hard	2	
44	296271-784	Screw 1/4-20 x 3/4" PPH	16	
45	409-001	Nut, 5/16-18 Top-Lock	10	
46	4473-004	Bolt, 1/4-20 x .50" Flange	36	
47	296271-862	Clip	2	
48	248912-001	Trim Seal, 3/8 90 Deg	10	
49	350-010	Screw, 1/4-20x1" HHC	10	
50	296274-912	Base Plate	1	

SHEET METAL ASSEMBLY (2 of 4)

Figure 20-2

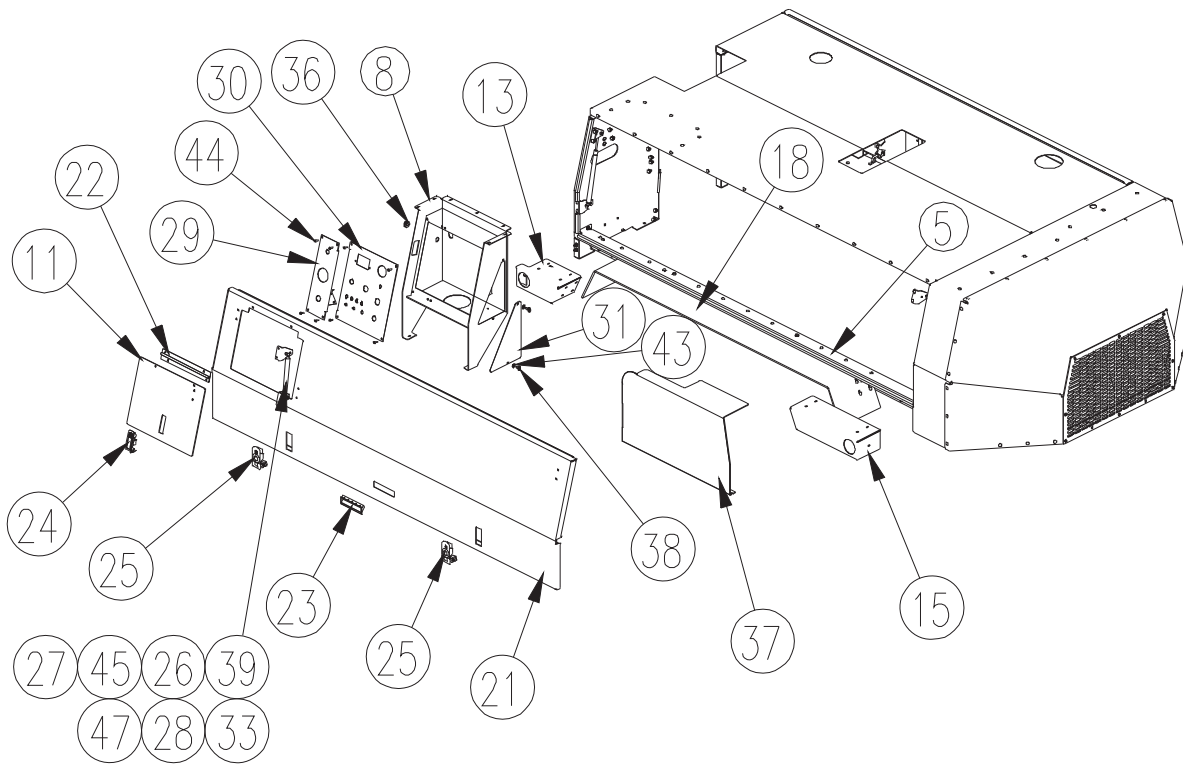


SHEET METAL ASSEMBLY (2 of 4)

No.	Part No.	Description	Qty.	Remarks
1	296271-835	Nose Tray	1	
2	296271-836	Back Panel, Left	1	
3	296271-837	Back Panel, Right	1	
4	296271-838	Wheel Well, Left	1	
5	296271-839	Wheel Well, Right	1	
6	296271-840	Arch Assembly	1	
7	296271-841	Nose Assembly	1	
8	296271-842	Control Panel Weldment	1	
9	296271-843	Baffel Panel, Left	1	
10	296271-844	Baffel Panel, Right	1	
11	296271-845	Control Panel Door	1	
12	296271-846	Light Panel, Rear Left	1	
13	296271-847	Light Panel, Rear Right	1	
14	296271-848	Light Panel, Front Left	1	
15	296271-849	Light Panel, Front Right	1	
16	296271-850	Grill	1	
17	296271-827	Mount, Hyd. Cooler	2	
18	296271-855	Fender	2	
19	296271-851	Hinge, 84.65	2	
20	296271-852	Door Weldment, Left	1	
21	296271-853	Door Weldment, Right	1	
22	296271-854	Hinge, 12.25	1	
23	296271-859	Handle, Plastic	2	
24	229229-059	Latch, Sm	1	
25	296271-858	Latch, Lg	4	
26	296271-856	Spring Brkt Long Foot	1	
27	296271-857	Brkt, Gas Spring	9	
28	296271-833	Stud, Gas Spring Ball	10	
29	296271-828	Control Panel, Left	1	
30	296271-829	Control Panel, Right	1	
31	296271-830	Control Panel Shield	1	
32	296271-831	Air Cylinder-Main Door	4	
33	296271-834	Socket, Ball	2	
34	296274-899	Roof Weldment, Right	1	
35	296274-900	Roof Weldment, Left	1	
36	81315-001	Grommet, Rubber	5	
37	296271-995	Chain Guard	1	
38	286589-001	Screw, 5/16-18 x 1/2" Thumb	2	
39	296271-832	Air Cylinder, Con Pan Door	2	
43	296271-964	Washer, 5/16", Hard	2	
44	296271-784	Screw 1/4-20 x 3/4" PPH	16	
45	409-001	Nut, 5/16-18 Top-Lock	10	
46	4473-004	Bolt, 1/4-20 x .50" Flange	36	
47	296271-862	Clip	2	
48	248912-001	Trim Seal, 3/8 90 Deg	10	
49	350-010	Screw, 1/4-20x1" HHC	10	
50	296274-912	Base Plate	1	

SHEET METAL ASSEMBLY (3 of 4)

Figure 20-3

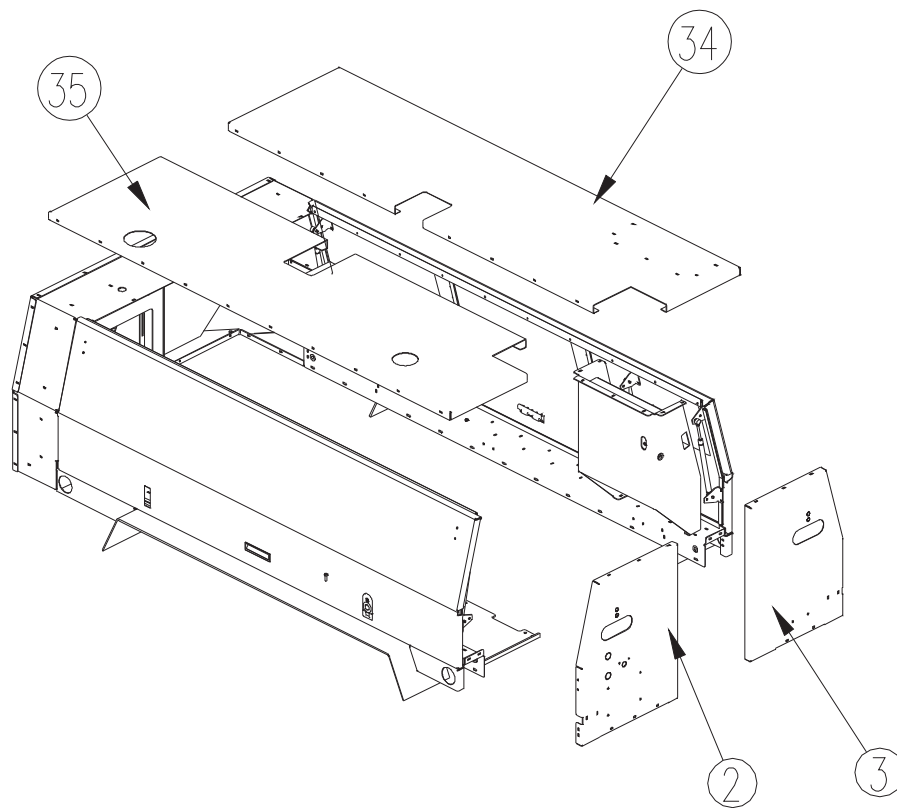


SHEET METAL ASSEMBLY (3 of 4)

No.	Part No.	Description	Qty.	Remarks
1	296271-835	Nose Tray	1	
2	296271-836	Back Panel, Left	1	
3	296271-837	Back Panel, Right	1	
4	296271-838	Wheel Well, Left	1	
5	296271-839	Wheel Well, Right	1	
6	296271-840	Arch Assembly	1	
7	296271-841	Nose Assembly	1	
8	296271-842	Control Panel Weldment	1	
9	296271-843	Baffel Panel, Left	1	
10	296271-844	Baffel Panel, Right	1	
11	296271-845	Control Panel Door	1	
12	296271-846	Light Panel, Rear Left	1	
13	296271-847	Light Panel, Rear Right	1	
14	296271-848	Light Panel, Front Left	1	
15	296271-849	Light Panel, Front Right	1	
16	296271-850	Grill	1	
17	296271-827	Mount, Hyd. Cooler	2	
18	296271-855	Fender	2	
19	296271-851	Hinge, 84.65	2	
20	296271-852	Door Weldment, Left	1	
21	296271-853	Door Weldment, Right	1	
22	296271-854	Hinge, 12.25	1	
23	296271-859	Handle, Plastic	2	
24	229229-059	Latch, Sm	1	
25	296271-858	Latch, Lg	4	
26	296271-856	Spring Brkt Long Foot	1	
27	296271-857	Brkt, Gas Spring	9	
28	296271-833	Stud, Gas Spring Ball	10	
29	296271-828	Control Panel, Left	1	
30	296271-829	Control Panel, Right	1	
31	296271-830	Control Panel Shield	1	
32	296271-831	Air Cylinder-Main Door	4	
33	296271-834	Socket, Ball	2	
34	296274-899	Roof Weldment, Right	1	
35	296274-900	Roof Weldment, Left	1	
36	81315-001	Grommet, Rubber	5	
37	296271-995	Chain Guard	1	
38	286589-001	Screw, 5/16-18 x 1/2" Thumb	2	
39	296271-832	Air Cylinder, Con Pan Door	2	
43	296271-964	Washer, 5/16", Hard	2	
44	296271-784	Screw 1/4-20 x 3/4" PPH	16	
45	409-001	Nut, 5/16-18 Top-Lock	10	
46	4473-004	Bolt, 1/4-20 x .50" Flange	36	
47	296271-862	Clip	2	
48	248912-001	Trim Seal, 3/8 90 Deg	10	
49	350-010	Screw, 1/4-20x1" HHC	10	
50	296274-912	Base Plate	1	

SHEET METAL ASSEMBLY (4 of 4)

Figure 20-4



SHEET METAL ASSEMBLY (4 of 4)

No.	Part No.	Description	Qty.	Remarks
1	296271-835	Nose Tray	1	
2	296271-836	Back Panel, Left	1	
3	296271-837	Back Panel, Right	1	
4	296271-838	Wheel Well, Left	1	
5	296271-839	Wheel Well, Right	1	
6	296271-840	Arch Assembly	1	
7	296271-841	Nose Assembly	1	
8	296271-842	Control Panel Weldment	1	
9	296271-843	Baffel Panel, Left	1	
10	296271-844	Baffel Panel, Right	1	
11	296271-845	Control Panel Door	1	
12	296271-846	Light Panel, Rear Left	1	
13	296271-847	Light Panel, Rear Right	1	
14	296271-848	Light Panel, Front Left	1	
15	296271-849	Light Panel, Front Right	1	
16	296271-850	Grill	1	
17	296271-827	Mount, Hyd. Cooler	2	
18	296271-855	Fender	2	
19	296271-851	Hinge, 84.65	2	
20	296271-852	Door Weldment, Left	1	
21	296271-853	Door Weldment, Right	1	
22	296271-854	Hinge, 12.25	1	
23	296271-859	Handle, Plastic	2	
24	229229-059	Latch, Sm	1	
25	296271-858	Latch, Lg	4	
26	296271-856	Spring Brkt Long Foot	1	
27	296271-857	Brkt, Gas Spring	9	
28	296271-833	Stud, Gas Spring Ball	10	
29	296271-828	Control Panel, Left	1	
30	296271-829	Control Panel, Right	1	
31	296271-830	Control Panel Shield	1	
32	296271-831	Air Cylinder-Main Door	4	
33	296271-834	Socket, Ball	2	
34	296274-899	Roof Weldment, Right	1	
35	296274-900	Roof Weldment, Left	1	
36	81315-001	Grommet, Rubber	5	
37	296271-995	Chain Guard	1	
38	286589-001	Screw, 5/16-18 x 1/2" Thumb	2	
39	296271-832	Air Cylinder, Con Pan Door	2	
43	296271-964	Washer, 5/16", Hard	2	
44	296271-784	Screw 1/4-20 x 3/4" PPH	16	
45	409-001	Nut, 5/16-18 Top-Lock	10	
46	4473-004	Bolt, 1/4-20 x .50" Flange	36	
47	296271-862	Clip	2	
48	248912-001	Trim Seal, 3/8 90 Deg	10	
49	350-010	Screw, 1/4-20x1" HHC	10	
50	296274-912	Base Plate	1	

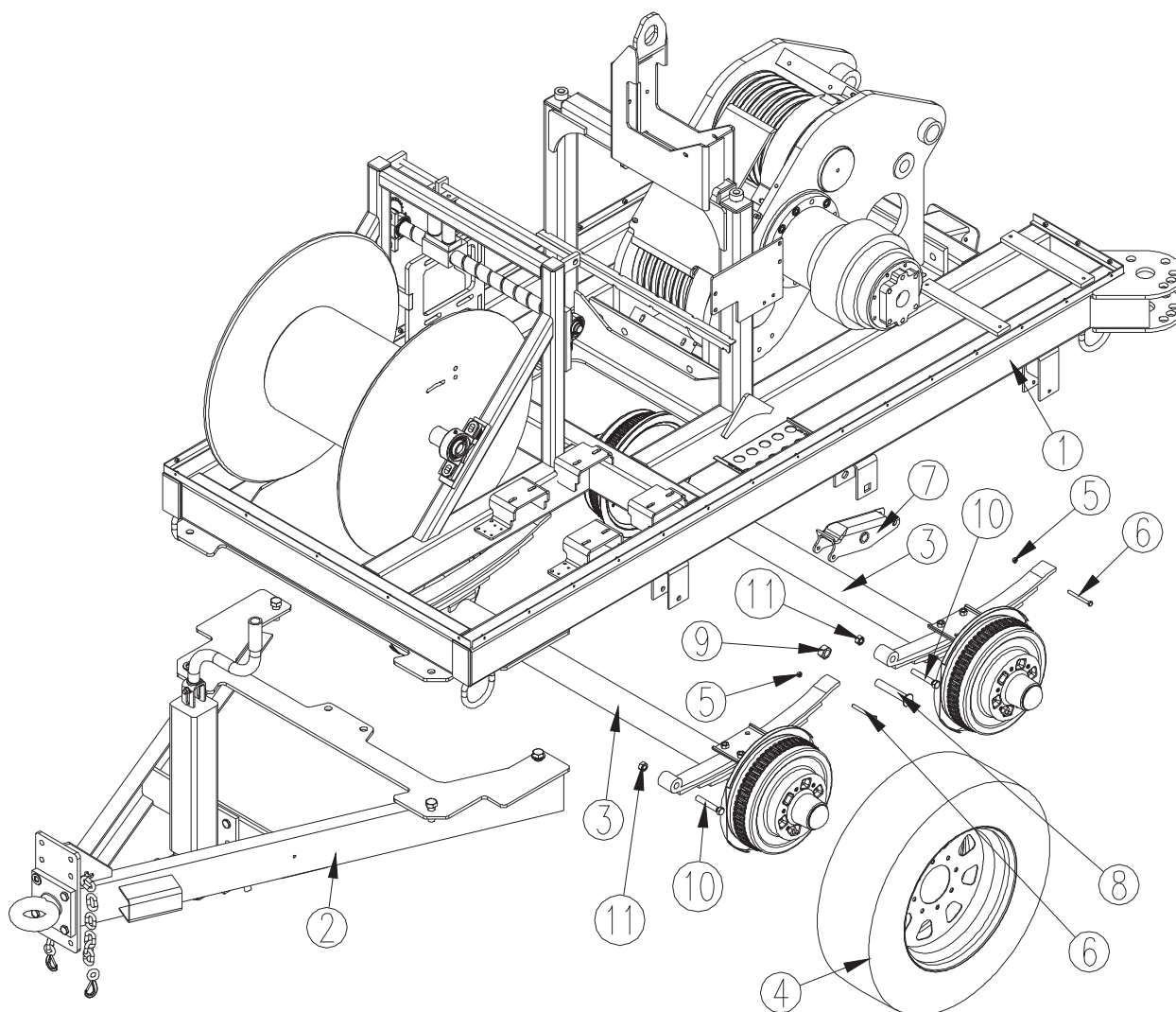
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CHASSIS

SECTION 30

CHASSIS ASSEMBLY (1 of 3)

Figure 30-1

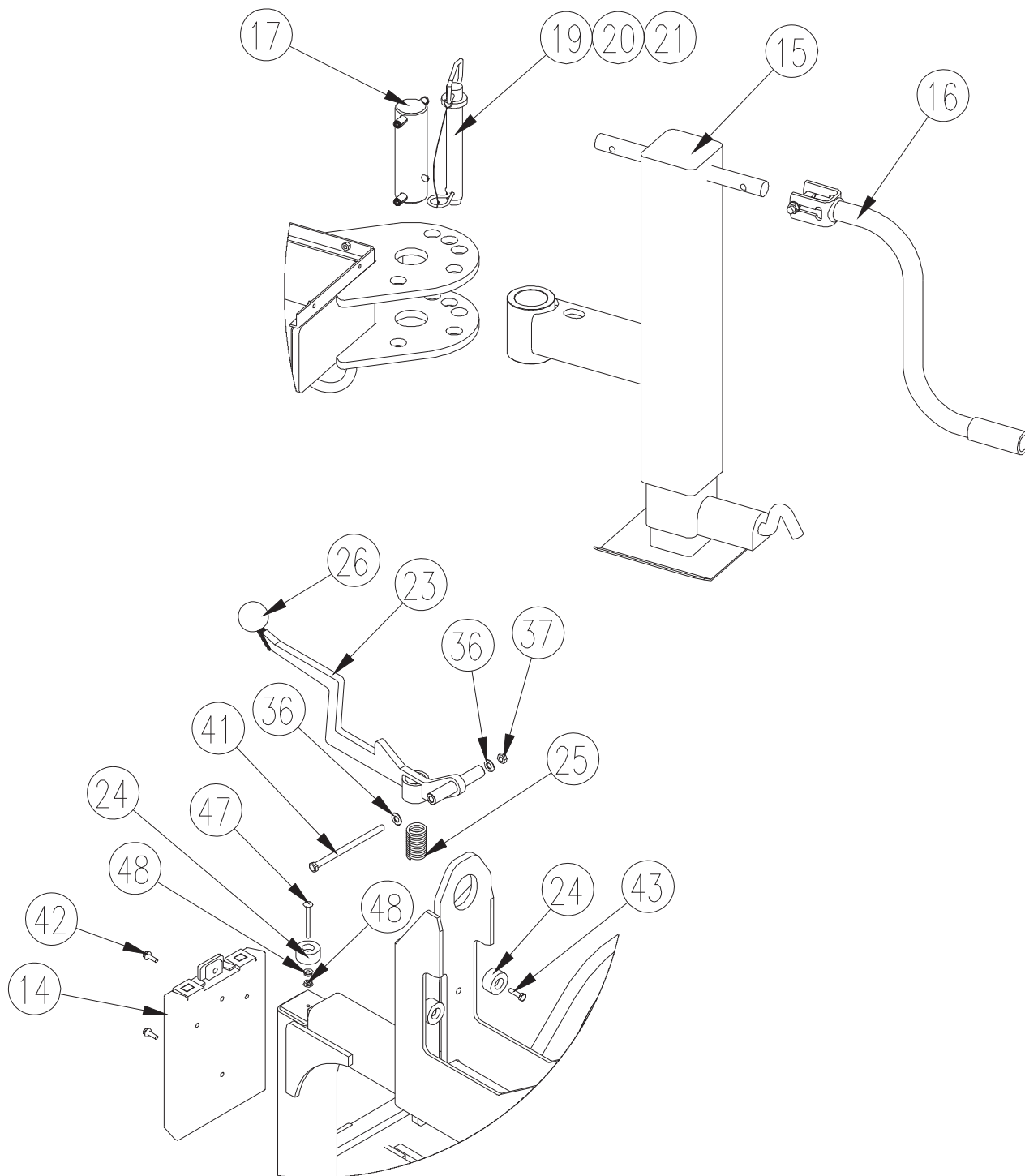


CHASSIS ASSEMBLY (1 of 3)

No.	Part No.	Description	Qty.	Remarks
1	296271-992	Frame Weldment	1	
2		Tongue Assembly, HD Jack	1	
3	296271-997	Axle - Overslung	2	
4	229229-401	Wheel	4	
5		Keeper Bolt Nut	4	Service With 912-3717
6		Keeper Bolt	4	Service With 912-3717
7		Equalizer	2	Service With 912-3717
8		Equalizer Bolt	2	Service With 912-3717
9		Equalizer Nut	2	Service With 912-3717
10		Spring Eye Bolt	4	Service With 912-3717
11		Spring Eye Bolt Nut	4	Service With 912-3717
12	296270-520	Bull Wheel W/ Drum And Wind	1	
13	296271-981	Rubber Bumper	1	
14	142410-001	Literature Box	1	
15	296271-980	Outrigger Jack Weldment	2	
16	296271-982	Outrigger Jack Handle	2	
17	296273-002	Pin Kit Outrigger Jack	2	
18		Toolbox, Yellow	1	Commercially Available Item
19	229227-295	Drawpin, 1x 5 3/4	2	
20	296253-235	Lanyard 12"	2	
21	229227-297	Bridge Pin 1"	2	
22	296271-996	Cable Galvanized - 5/8 x 2080'	1	
23	296271-985	Lever - Mast Lock	1	
24	296271-988	Bumper- Mast Lock	4	
25	296271-987	Spring - Mast Lock	1	
26	296271-986	Knob - Mast Lock	1	
27	296273-007	Motor Mount - Reel Drive	1	
28	296273-040	Cylinder Mount	1	
29	296273-143	Screw 5/8-11 x 6" SHCPS	1	
30	429-001	Nut, 5/8-11 Hex Jam	1	
31	615342-001	Washer, 5/8" - Hard	1	
32	75381-014	Bolt, HX HD 1/2-13 x 1.5" Gr.8	18	
33	296271-785	Washer, 1/2 - Hard	18	
34	290866-001	Screw 1/4-20 x 1" Set	2	
35	16114-014	Screw, 3/8-16x1 1/2" HHC Gr. 8	2	
36	296271-869	Washer, 3/8" - Hard	4	
37	416-001	Nut, 3/8-16 Top-Lock	3	
38	397-001	Nut, 3/4-10 Top-Lock	8	
39	98657-001	Washer, 3/4" - Hard	16	
40	385-022	Screw, 3/4-11x2 1/4"HHC Gr.8	8	
41	238214-001	Screw, 1/4-20x1" HHC	1	
42	229229-393	Bolt, 1/4-20 x .75: Flange	2	
43	350-010	Screw, 3/8-16x6" HHC	2	
44	480-011	Washer, 1/2" Lock	8	
45	296271-978	Chain, #40 - 102 Pitches	1	
46	296271-979	Chain, #80 - 72 Pitches	1	
47	373-024	Bolt, 1/4-20 x 2.5" Carraige	2	
48	405-001	Nut, Flange 1/4-20	4	

CHASSIS ASSEMBLY (2 of 3)

Figure 30-2

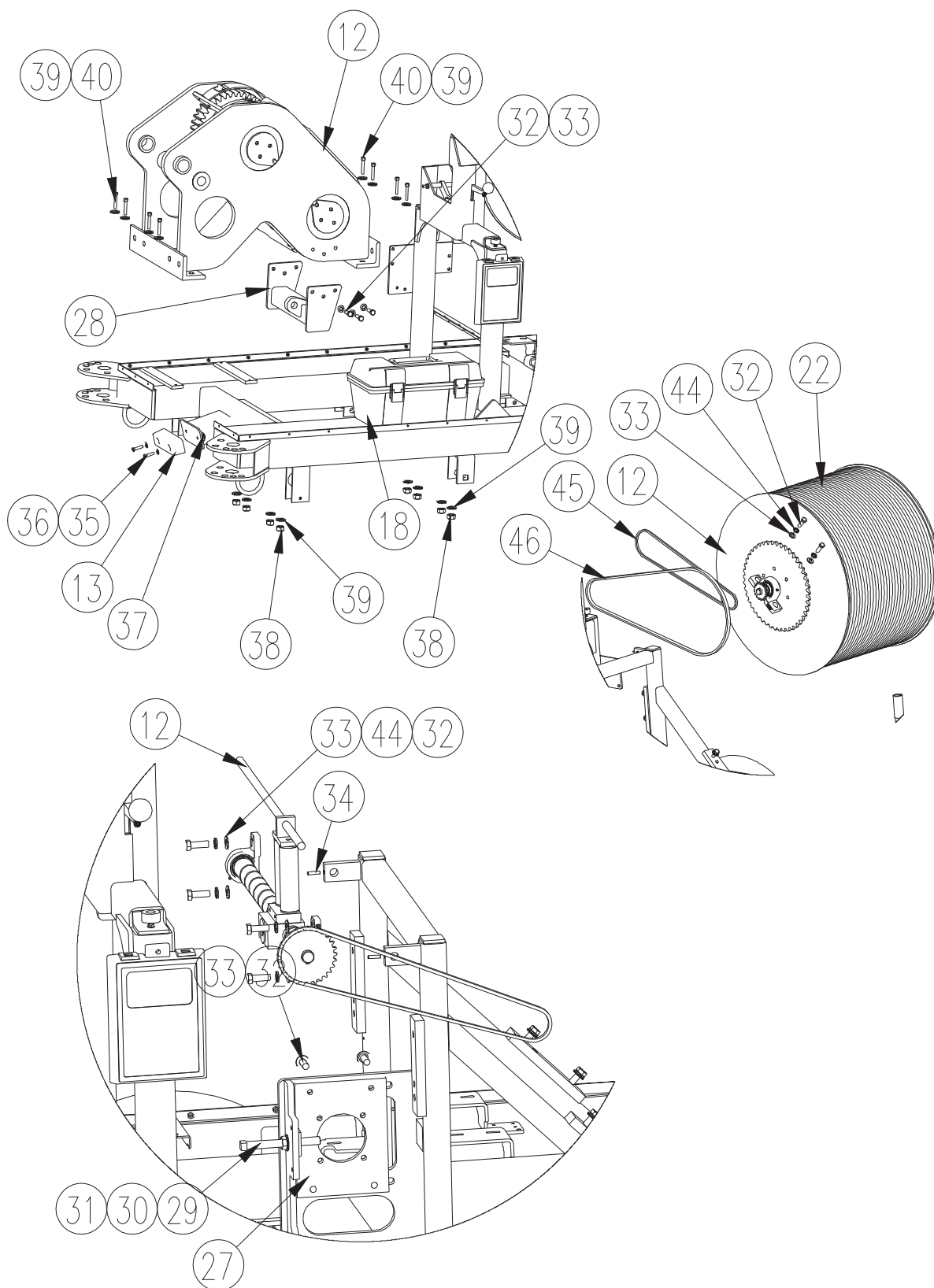


CHASSIS ASSEMBLY (2 of 3)

No.	Part No.	Description	Qty.	Remarks
1	296271-992	Frame Weldment	1	
2		Tongue Assembly, HD Jack	1	
3	296271-997	Axle - Overslung	2	
4	229229-401	Wheel	4	
5		Keeper Bolt Nut	4	Service With 912-3717
6		Keeper Bolt	4	Service With 912-3717
7		Equalizer	2	Service With 912-3717
8		Equalizer Bolt	2	Service With 912-3717
9		Equalizer Nut	2	Service With 912-3717
10		Spring Eye Bolt	4	Service With 912-3717
11		Spring Eye Bolt Nut	4	Service With 912-3717
12	296270-520	Bull Wheel W/ Drum And Wind	1	
13	296271-981	Rubber Bumper	1	
14	142410-001	Literature Box	1	
15	296271-980	Outrigger Jack Weldment	2	
16	296271-982	Outrigger Jack Handle	2	
17	296273-002	Pin Kit Outrigger Jack	2	
18		Toolbox, Yellow	1	Commercially Available Item
19	229227-295	Drawpin, 1x 5 3/4	2	
20	296253-235	Lanyard 12"	2	
21	229227-297	Bridge Pin 1"	2	
22	296271-996	Cable Galvanized - 5/8 x 2080'	1	
23	296271-985	Lever - Mast Lock	1	
24	296271-988	Bumper- Mast Lock	4	
25	296271-987	Spring - Mast Lock	1	
26	296271-986	Knob - Mast Lock	1	
27	296273-007	Motor Mount - Reel Drive	1	
28	296273-040	Cylinder Mount	1	
29	296273-143	Screw 5/8-11 x 6" SHCPS	1	
30	429-001	Nut, 5/8-11 Hex Jam	1	
31	615342-001	Washer, 5/8" - Hard	1	
32	75381-014	Bolt, HX HD 1/2-13 x 1.5" Gr.8	18	
33	296271-785	Washer, 1/2 - Hard	18	
34	290866-001	Screw 1/4-20 x 1" Set	2	
35	16114-014	Screw, 3/8-16x1 1/2" HHC Gr. 8	2	
36	296271-869	Washer, 3/8" - Hard	4	
37	416-001	Nut, 3/8-16 Top-Lock	3	
38	397-001	Nut, 3/4-10 Top-Lock	8	
39	98657-001	Washer, 3/4" - Hard	16	
40	385-022	Screw, 3/4-11x2 1/4"HHC Gr.8	8	
41	238214-001	Screw, 1/4-20x1" HHC	1	
42	229229-393	Bolt, 1/4-20 x .75: Flange	2	
43	350-010	Screw, 3/8-16x6" HHC	2	
44	480-011	Washer, 1/2" Lock	8	
45	296271-978	Chain, #40 - 102 Pitches	1	
46	296271-979	Chain, #80 - 72 Pitches	1	
47	373-024	Bolt, 1/4-20 x 2.5" Carraige	2	
48	405-001	Nut, Flange 1/4-20	4	

CHASSIS ASSEMBLY (3 of 3)

Figure 30-3

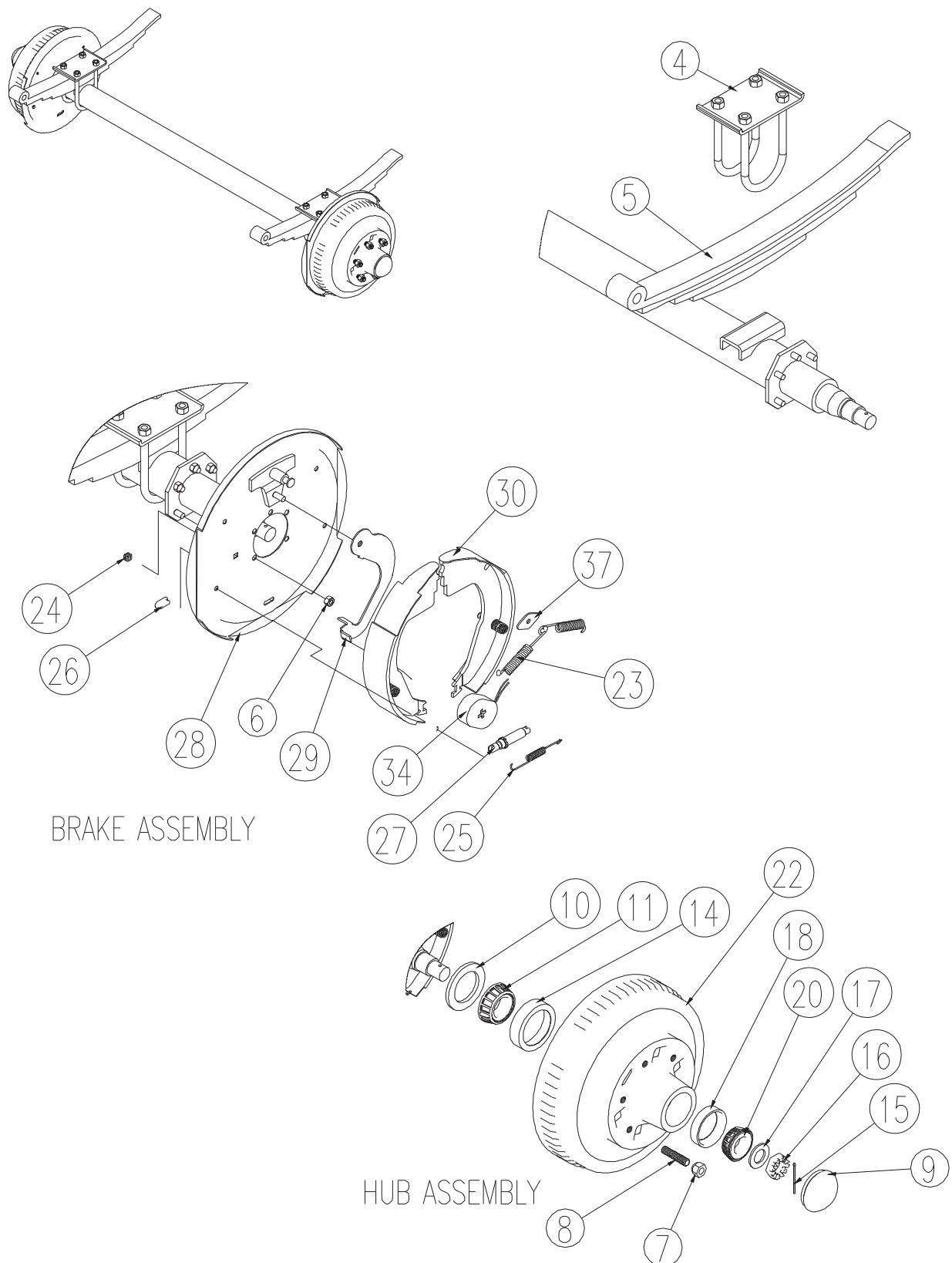


CHASSIS ASSEMBLY (3 of 3)

No.	Part No.	Description	Qty.	Remarks
1	296271-992	Frame Weldment	1	
2		Tongue Assembly, HD Jack	1	
3	296271-997	Axle - Overslung	2	
4	229229-401	Wheel	4	
5		Keeper Bolt Nut	4	Service With 912-3717
6		Keeper Bolt	4	Service With 912-3717
7		Equalizer	2	Service With 912-3717
8		Equalizer Bolt	2	Service With 912-3717
9		Equalizer Nut	2	Service With 912-3717
10		Spring Eye Bolt	4	Service With 912-3717
11		Spring Eye Bolt Nut	4	Service With 912-3717
12	296270-520	Bull Wheel W/ Drum And Wind	1	
13	296271-981	Rubber Bumper	1	
14	142410-001	Literature Box	1	
15	296271-980	Outrigger Jack Weldment	2	
16	296271-982	Outrigger Jack Handle	2	
17	296273-002	Pin Kit Outrigger Jack	2	
18		Toolbox, Yellow	1	Commercially Available Item
19	229227-295	Drawpin, 1x 5 3/4	2	
20	296253-235	Lanyard 12"	2	
21	229227-297	Bridge Pin 1"	2	
22	296271-996	Cable Galvanized - 5/8 x 2080'	1	
23	296271-985	Lever - Mast Lock	1	
24	296271-988	Bumper- Mast Lock	4	
25	296271-987	Spring - Mast Lock	1	
26	296271-986	Knob - Mast Lock	1	
27	296273-007	Motor Mount - Reel Drive	1	
28	296273-040	Cylinder Mount	1	
29	296273-143	Screw 5/8-11 x 6" SHCPS	1	
30	429-001	Nut, 5/8-11 Hex Jam	1	
31	615342-001	Washer, 5/8" - Hard	1	
32	75381-014	Bolt, HX HD 1/2-13 x 1.5" Gr.8	18	
33	296271-785	Washer, 1/2 - Hard	18	
34	290866-001	Screw 1/4-20 x 1" Set	2	
35	16114-014	Screw, 3/8-16x1 1/2" HHC Gr. 8	2	
36	296271-869	Washer, 3/8" - Hard	4	
37	416-001	Nut, 3/8-16 Top-Lock	3	
38	397-001	Nut, 3/4-10 Top-Lock	8	
39	98657-001	Washer, 3/4" - Hard	16	
40	385-022	Screw, 3/4-11x2 1/4"HHC Gr.8	8	
41	238214-001	Screw, 1/4-20x1" HHC	1	
42	229229-393	Bolt, 1/4-20 x .75: Flange	2	
43	350-010	Screw, 3/8-16x6" HHC	2	
44	480-011	Washer, 1/2" Lock	8	
45	296271-978	Chain, #40 - 102 Pitches	1	
46	296271-979	Chain, #80 - 72 Pitches	1	
47	373-024	Bolt, 1/4-20 x 2.5" Carraige	2	
48	405-001	Nut, Flange 1/4-20	4	

AXLE

Figure 30-4

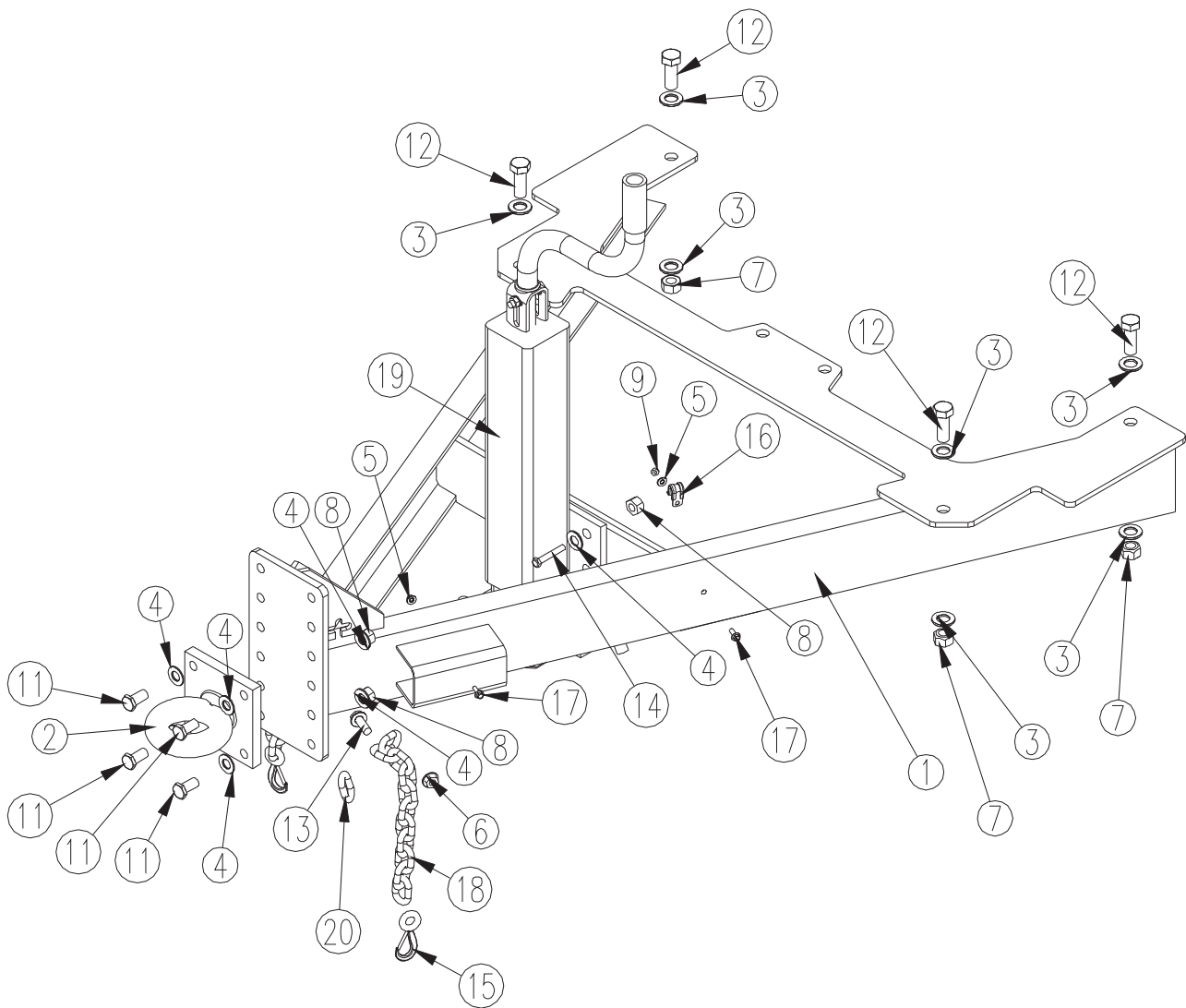


AXLE

No.	Part No.	Description	Qty.	Remarks
4	296274-776	U-Bolt Kit	2	
37	296274-777	Slipper Spring	2	
37	296274-775	Nut, Brake Mounting	10	
37	296274-756	Nut, Wheel 1/2-20	12	
37	296274-754	Wheel Stud 1/2"	12	
37	296274-757	Grease Cap	2	
37	296274-764	Grease Seal	2	
37	296274-762	Inner Bearing Cone	2	
14	296274-763	Inner Bearing Cup	2	
37	296274-761	Scotter Pin	2	
37	296274-758	Nut, Spindle	2	
37	296274-760	Spindle Washer	2	
37	296274-759	Outer Bearing Cup	2	
20	296274-755	Outer Bearing Cone	2	
22	296274-753	Hub & Drum	2	
37	296274-770	Retractor Spring	4	
37	296274-774	Wire Grommet	2	
37	296274-771	Adjusting Screw Spring	2	
37	296274-773	Plug	2	
37	296274-769	Adjusting Assembly	2	
37	296274-765	Back Plate Assembly	2	
37	296274-772	LH Act Level Arm Assembly	2	
37	296274-766	Shoe & Lining Kit	2	
34	296274-768	Magnet Kit	2	
37	296274-778	Washer, Anchor Post	2	

TONGUE ASSEMBLY-HD JACK

Figure 30-5



TONGUE ASSEMBLY-HD JACK

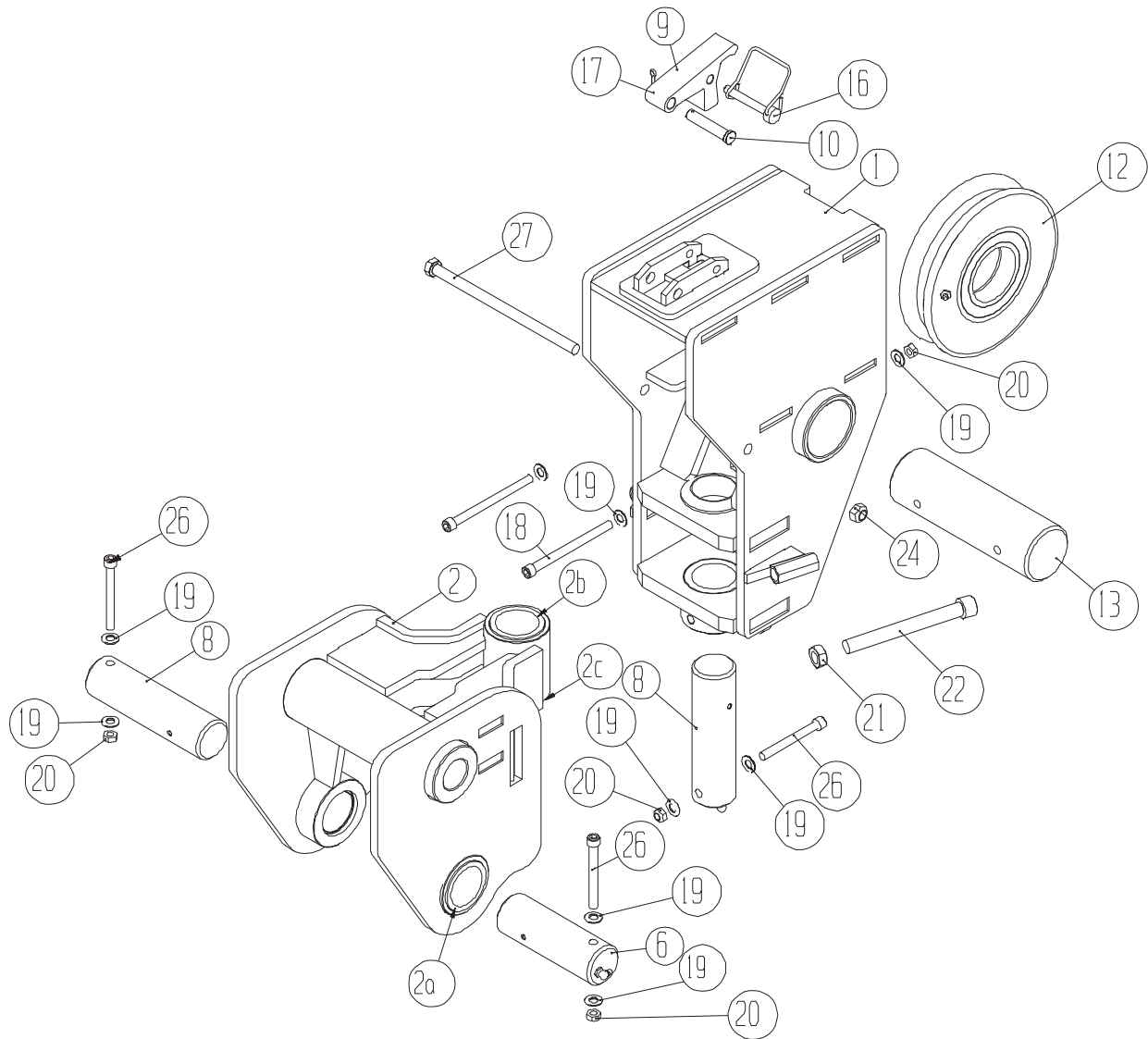
No.	Part No.	Description	Qty.	Remarks
37	296274-902	Bolt-On Tongue - HD Jack	1	
37	98115-001	Drawbar Eye	1	
37	98657-001	Washer, 3/4" - Hard	8	
37	615342-001	Washer, 5/8" - Hard	16	
37	296271-826	Washer, 1/4" - Hard	2	
37	296271-785	Washer, 1/2" - Hard	4	
37	397-001	Nut, 3/4-10 Top-Lock	4	
37	430001	Nut, 5/8-11 Top-Lock	8	
37	403-001	Nut, 1/4-20 Top-Lock	2	
37	423-001	Nut, 1/2-13 Top-Lock	2	
37	27169-022	Screw, 5/8 x 2.25"HHC	8	
37	235746-001	Screw, 3/4-10 x 2"HHC	4	
37	358-014	Screw, 1/2-13 x 1.5"HHC Gr.8	2	
37	27169-022	Screw, 5/8 x 2.25"HHC	4	
37	229229-015	Hook, Grab w/ Latch	2	
37	290908-001	Hose, Clamp, 1/2"	2	
37	229229-393	Bolt, 1/4-20 x .75" Flange	2	
37	229229-011	Chain, 3/8" x 36 GR. 40 Plated	2	
37	296274-903	Jack, Tongue - HD	1	
37	229229-013	Link, Connector	2	

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MAST & DOWNHOLE ASSEMBLIESSECTION 40

MAST ASSEMBLY (1 of 2)

Figure 40-1

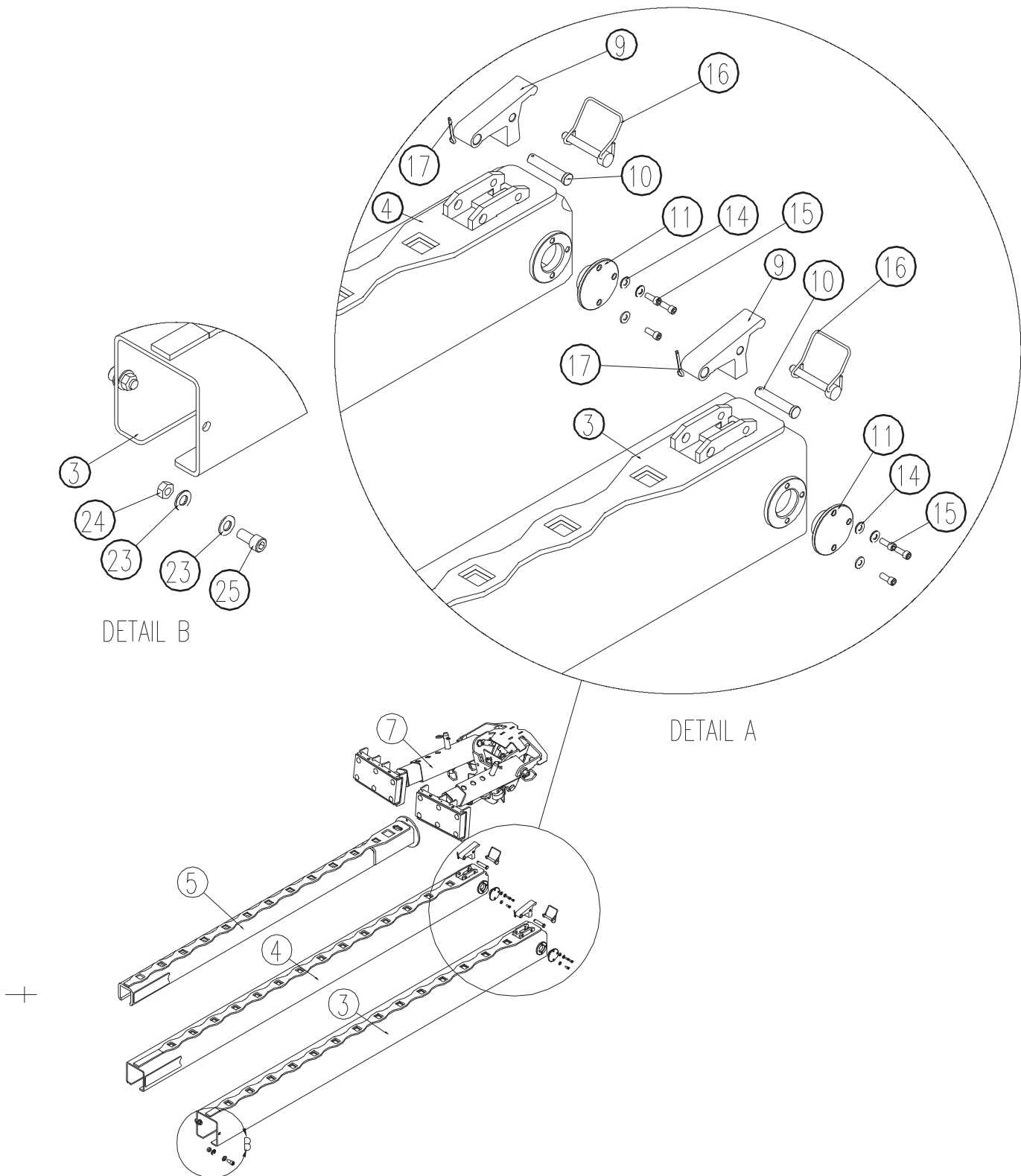


MAST ASSEMBLY (1 of 2)

No.	Part No.	Description	Qty.	Remarks
1	296274-898	Pivot Weldment	1	
2	296273-160	Pivot Frame	1	
2a	296273-163	Oil Bronze Bushing-841	2	
2b	296273-162	Bushing Modified	1	
2c	296273-161	Oil Bronze Bushing-660	1	
3	296273-146	Tube, Outer Mast	1	
4	296273-147	Tube, Middle Mast	1	
5	296273-148	Tube, Inner Mast	1	
6	296274-901	Shaft, Mast Pivot, Short (with zerk)	1	
		Fitting, Grease 1/8NPTx90 (only)	1	912-1150
7	296273-157	Downhole Unit Assembly	Ref	
8	296273-144	Shaft, Mast Pivot	2	
		Fitting, Grease 1/8NPTx90 (only)	1	912-1150
9	296273-145	Mast Latch	3	
10	289662-001	Pin, 1/2 x 2.25 Clevis	3	
11	296273-156	Travel Limit, Mast	4	
12	296273-158	Sheave Assembly	1	
	293926-001	Fitting, Grease Str 1/8-27npt	1	
		Race, 2.75 Inner	1	912-2047
		Bearing, 3.25 Needle	1	912-2047
13	296271-149	Shaft, Upper Sheave	1	
14	296271-826	Washer, 1/4". Hard	12	
15	296273-141	Bolt, SHC 1/4-20 x .625"	12	
16	296253-219	Pin, 3/8 Lynch	3	
17	510-005	Pin, 3/32 x .75 Cotter	3	
18	600086-001	Screw, 3/8-16 x 5" SHC	2	
19	296271-869	Washer, 3/8", Hard	10	
20	296271-869	Nut, 3/8-16 Top-Lock	5	
21	429-001	Nut, 5/8-11 Hex Jam	2	
22	296273-143	Screw, 5/8-11 x 6" SHCPS	2	
23	296271-785	Washer, 1/2", Hard	4	
24	423-001	Nut, 1/2-13 x 1" SHC	3	
25	293992-001	Screw, 3/8-16 x 3.5 SHC	2	
26	296273-142	Screw, 3/8-16 x 3.5 SHC	3	
27	358-090	Screw, 1/2-13x9" HHC Gr.5	1	

MAST ASSEMBLY (2 of 2)

Figure 40-2

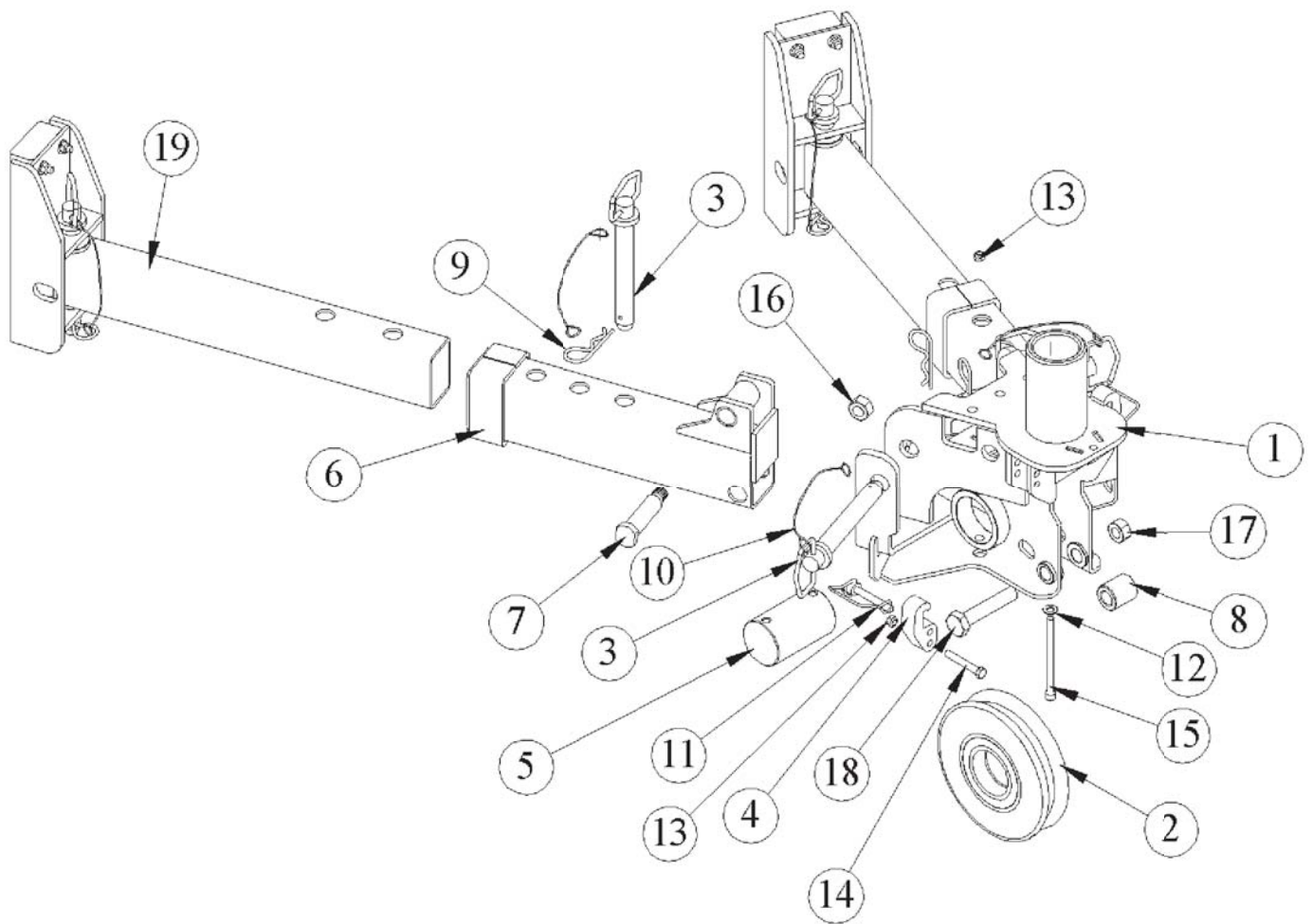


MAST ASSEMBLY (2 of 2)

No.	Part No.	Description	Qty.	Remarks
1	296274-898	Pivot Weldment	1	
2	296273-160	Pivot Frame	1	
2a	296273-163	Oil Bronze Bushing-841	2	
2b	296273-162	Bushing Modified	1	
2c	296273-161	Oil Bronze Bushing-660	1	
3	296273-146	Tube, Outer Mast	1	
4	296273-147	Tube, Middle Mast	1	
5	296273-148	Tube, Inner Mast	1	
6	296274-901	Shaft, Mast Pivot, Short (with zerk)	1	
		Fitting, Grease 1/8NPTx90 (only)	1	912-1150
7	296273-157	Downhole Unit Assembly	Ref	
8	296273-144	Shaft, Mast Pivot	2	
		Fitting, Grease 1/8NPTx90 (only)	1	912-1150
9	296296-982	Mast Latch	3	
10	289662-001	Pin, 1/2 x 2.25 Clevis	3	
11	296273-156	Travel Limit, Mast	4	
12	296273-158	Sheave Assembly	1	
	293926-001	Fitting, Grease Str 1/8-27npt	1	
		Race, 2.75 Inner	1	912-2047
		Bearing, 3.25 Needle	1	912-2047
13	296271-149	Shaft, Upper Sheave	1	
14	296271-826	Washer, 1/4". Hard	12	
15	296273-141	Bolt, SHC 1/4-20 x .625"	12	
16	296253-219	Pin, 3/8 Lynch	3	
17	510-005	Pin, 3/32 x .75 Cotter	3	
18	600086-001	Screw, 3/8-16 x 5" SHC	2	
19	296271-869	Washer, 3/8", Hard	10	
20	296271-869	Nut, 3/8-16 Top-Lock	5	
21	429-001	Nut, 5/8-11 Hex Jam	2	
22	296273-143	Screw, 5/8-11 x 6" SHCPS	2	
23	296271-785	Washer, 1/2", Hard	4	
24	423-001	Nut, 1/2-13 x 1" SHC	3	
25	293992-001	Screw, 3/8-16 x 3.5 SHC	2	
26	296273-142	Screw, 3/8-16 x 3.5 SHC	3	
27	358-090	Screw, 1/2-13x9" HHC Gr.5	1	

DOWNHOLE UNIT (1 of 3)

Figure 40-3

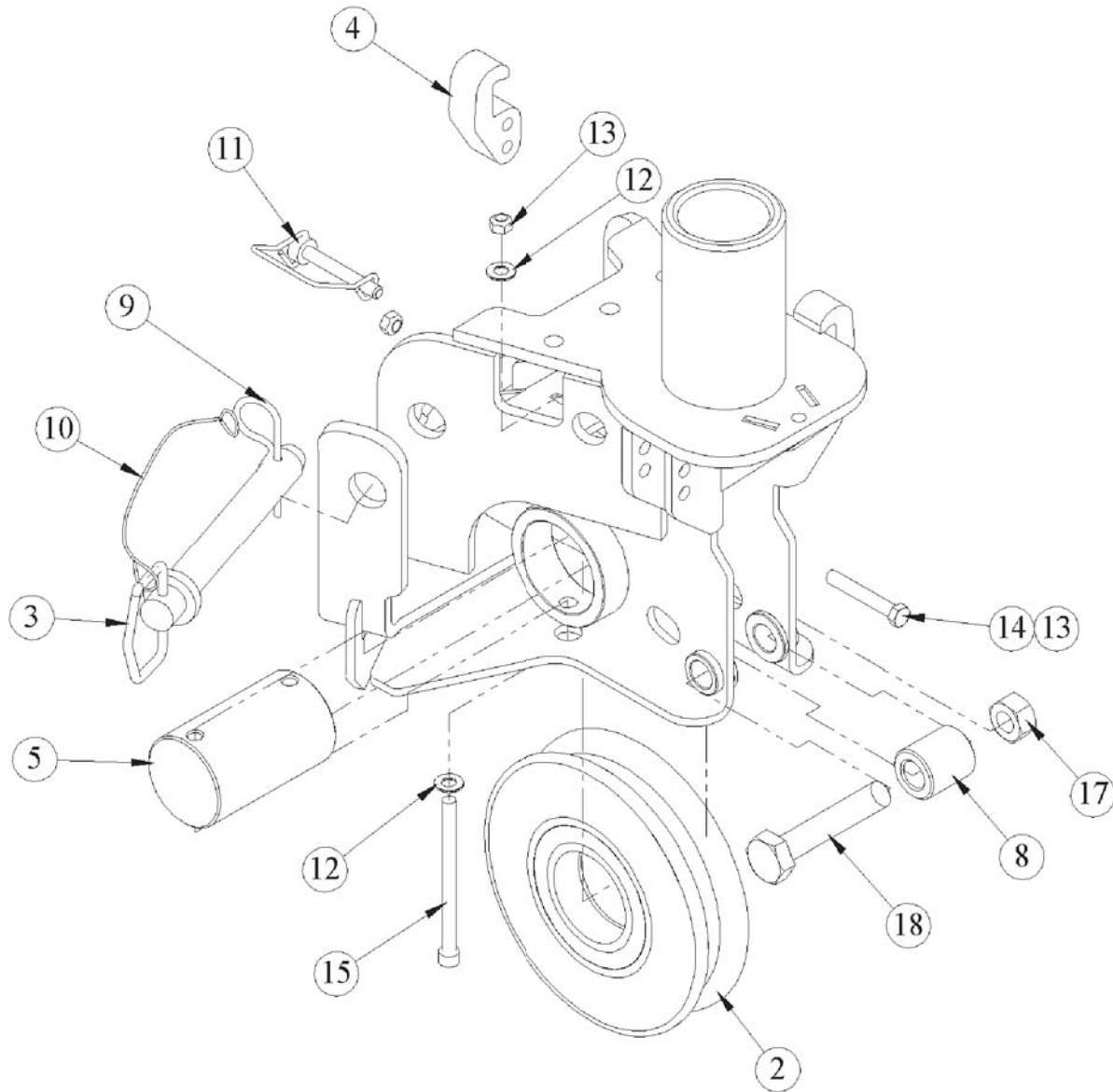


DOWNHOLE UNIT (1 of 3)

No.	PART NO.	DESCRIPTION	QTY.	
1	296273-154	Downhole Unit	1	
2	296273-158	Sheave Assembly	1	
3	229227-295	Drawpin, 1x5-3/4	4	
4	296253-218	Finger	2	
5	296273-155	Shaft, Downhole Unit Sheave	1	
6	296273-151	Leg, Extension	2	
7	296273-152	Pivot Bolt, Lower Unit	2	
8	296273-164	Bushing Support	1	
9	229227-297	Bridge Pin 1	4	
10	296253-235	Lanyard 12	4	
11	296253-219	Pin, 3/8 Lynch	2	
12	296271-869	Washer, 3/8" - Hard	4	
13	416-001	Nut, 3/8-16 Top-Lock	4	
14	354-024	Screw, 3/8-16 x 2.5" HHC	2	
15	600086-001	Screw, 3/8-16 x 5" SHC	2	
16	148120-001	Nut, 3/4-10 Nylock	2	
17	397-001	Nut, 3/4-10 Top-Lock	1	
18	238881-001	Bolt, HHC 3/4-10 x 4" GR 8	1	
19	296279-074	Leg And Foot Assembly	2	

DOWNHOLE UNIT (2 of 3)

Figure 40-4

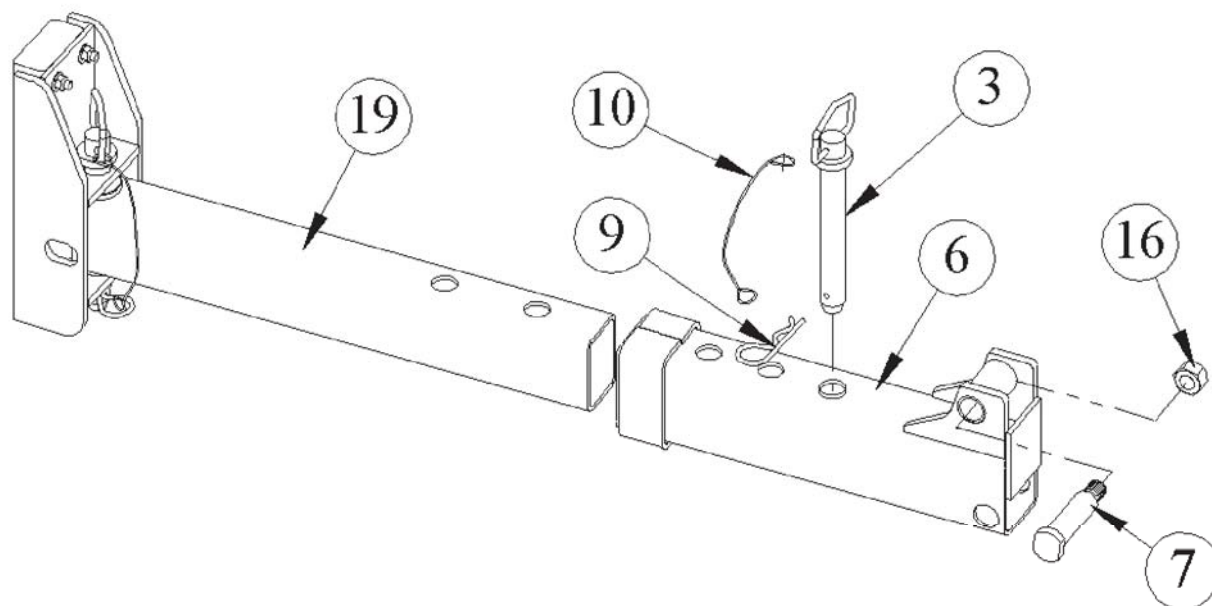


DOWNHOLE UNIT (2 of 3)

No.	PART NO.	DESCRIPTION	QTY.	
1	296273-154	Downhole Unit	1	
2	296273-158	Sheave Assembly	1	
3	229227-295	Drawpin, 1x5-3/4	4	
4	296253-218	Finger	2	
5	296273-155	Shaft, Downhole Unit Sheave	1	
6	296273-151	Leg, Extension	2	
7	296273-152	Pivot Bolt, Lower Unit	2	
8	296273-164	Bushing Support	1	
9	229227-297	Bridge Pin 1	4	
10	296253-235	Lanyard 12	4	
11	296253-219	Pin, 3/8 Lynch	2	
12	296271-869	Washer, 3/8" - Hard	4	
13	416-001	Nut, 3/8-16 Top-Lock	4	
14	354-024	Screw, 3/8-16 x 2.5" HHC	2	
15	600086-001	Screw, 3/8-16 x 5" SHC	2	
16	148120-001	Nut, 3/4-10 Nylock	2	
17	397-001	Nut, 3/4-10 Top-Lock	1	
18	238881-001	Bolt, HHC 3/4-10 x 4" GR 8	1	
19	296279-074	Leg And Foot Assembly	2	

DOWNHOLE UNIT (3 of 3)

Figure 40-5

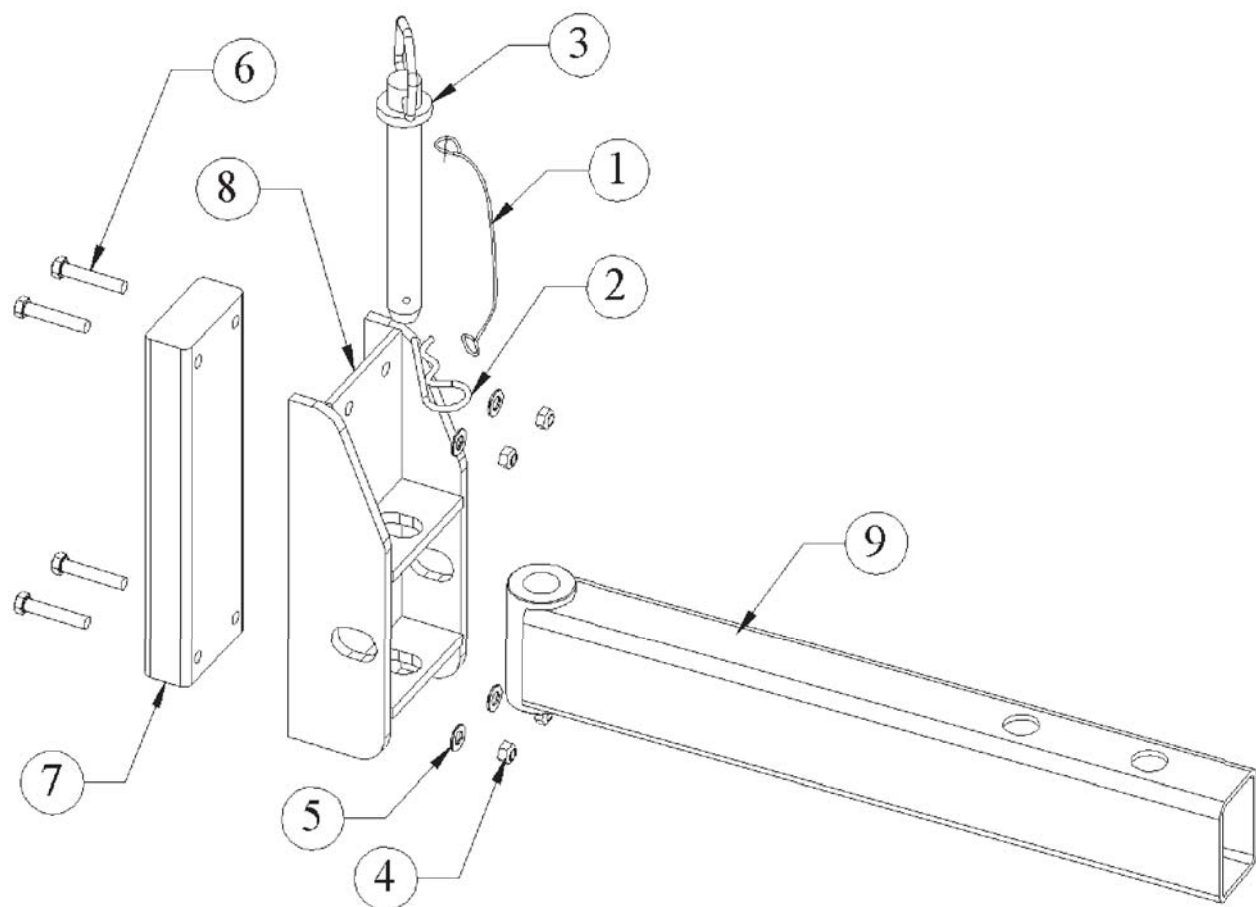


DOWNHOLE UNIT (3 of 3)

No.	PART NO.	DESCRIPTION	QTY.	
1	296273-154	Downhole Unit	1	
2	296273-158	Sheave Assembly	1	
3	229227-295	Drawpin, 1x5-3/4	4	
4	296253-218	Finger	2	
5	296273-155	Shaft, Downhole Unit Sheave	1	
6	296273-151	Leg, Extension	2	
7	296273-152	Pivot Bolt, Lower Unit	2	
8	296273-164	Bushing Support	1	
9	229227-297	Bridge Pin 1	4	
10	296253-235	Lanyard 12	4	
11	296253-219	Pin, 3/8 Lynch	2	
12	296271-869	Washer, 3/8" - Hard	4	
13	416-001	Nut, 3/8-16 Top-Lock	4	
14	354-024	Screw, 3/8-16 x 2.5" HHC	2	
15	600086-001	Screw, 3/8-16 x 5" SHC	2	
16	148120-001	Nut, 3/4-10 Nylock	2	
17	397-001	Nut, 3/4-10 Top-Lock	1	
18	238881-001	Bolt, HHC 3/4-10 x 4" GR 8	1	
19	296279-074	Leg And Foot Assembly	2	

DOWNHOLE UNIT (3 of 3)

Figure 40-1

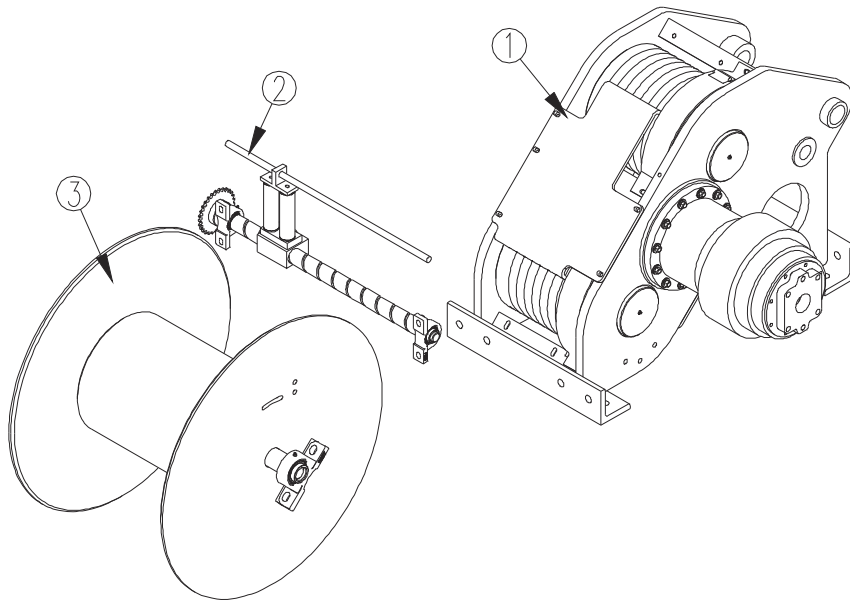


DOWNHOLE UNIT (3 of 3)

No.	Part No.	Description	Qty.	Remarks
1	296253-235	Lanyard 12	1	
2	229227-297	Bridge Pin 1	1	
3	229227-295	Drawpin, 1x5-3/4	1	
4	416-001	Nut, 3/8-16 Top-Lock	4	
5	485-007	Washer, 3/8	4	
6	296270-501	Screw, 3/8-16 X 2" HHC	4	
7	296279-073	Foot Pad, HDPE	1	
8	296279-071	Foot	1	
9	296279-072	Inner Leg	1	

BULL WHEEL W/DRUM AND WINDER

Figure 40-6



BULL WHEEL W/DRUM AND WINDER

No.	Part No.	Description	Qty.	Remarks
0	296270-520	Bull Wheel w/Drum And Winder	Ref	
1		Bullwheel Module Assembly	1	
2		Levelwind Assembly	1	
3		Take Up Reel Assembly	1	

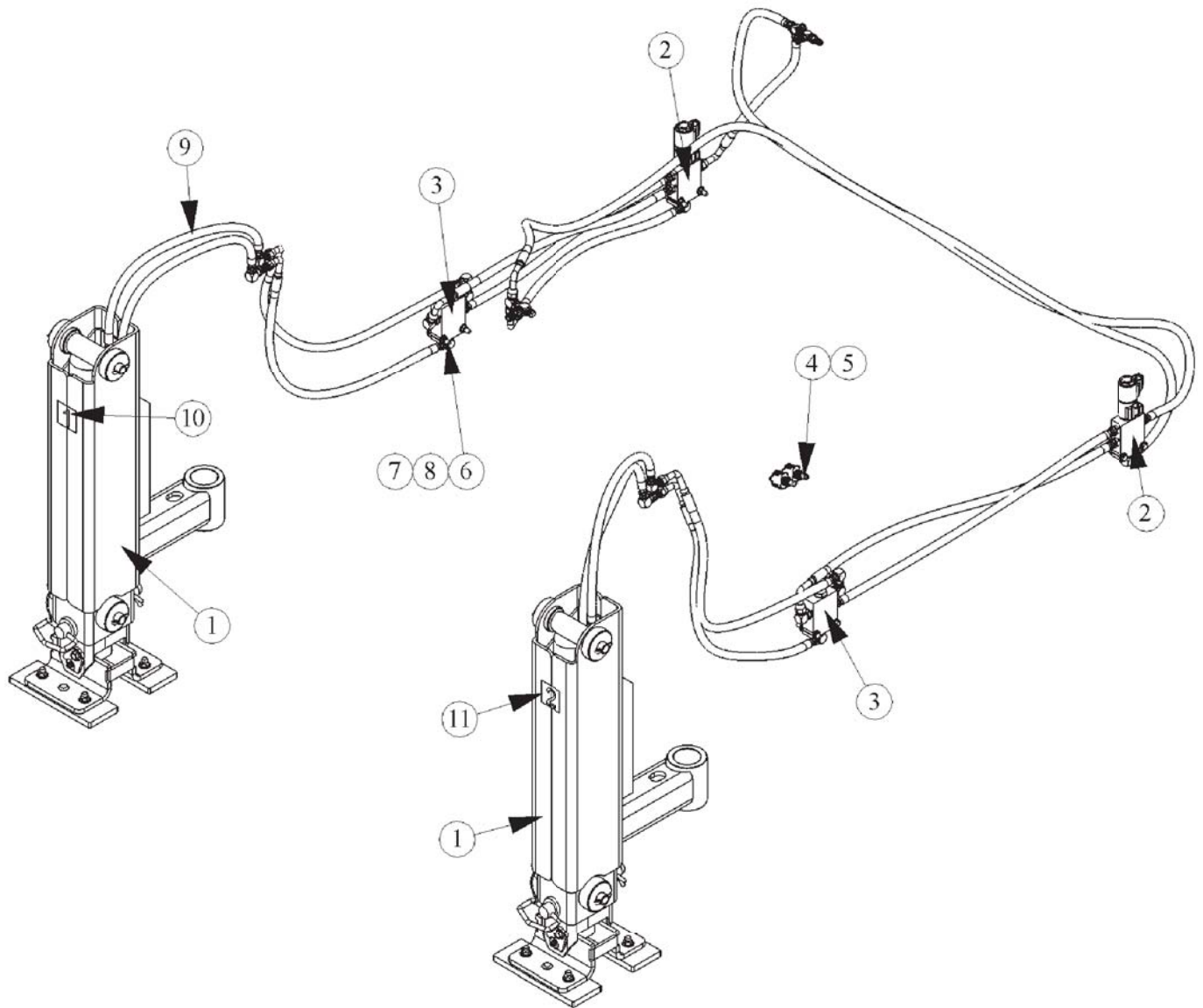
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HYDRAULIC STABILIZER KIT

SECTION 50

HYDRAULIC STABILIZER KIT

Figure 50-1

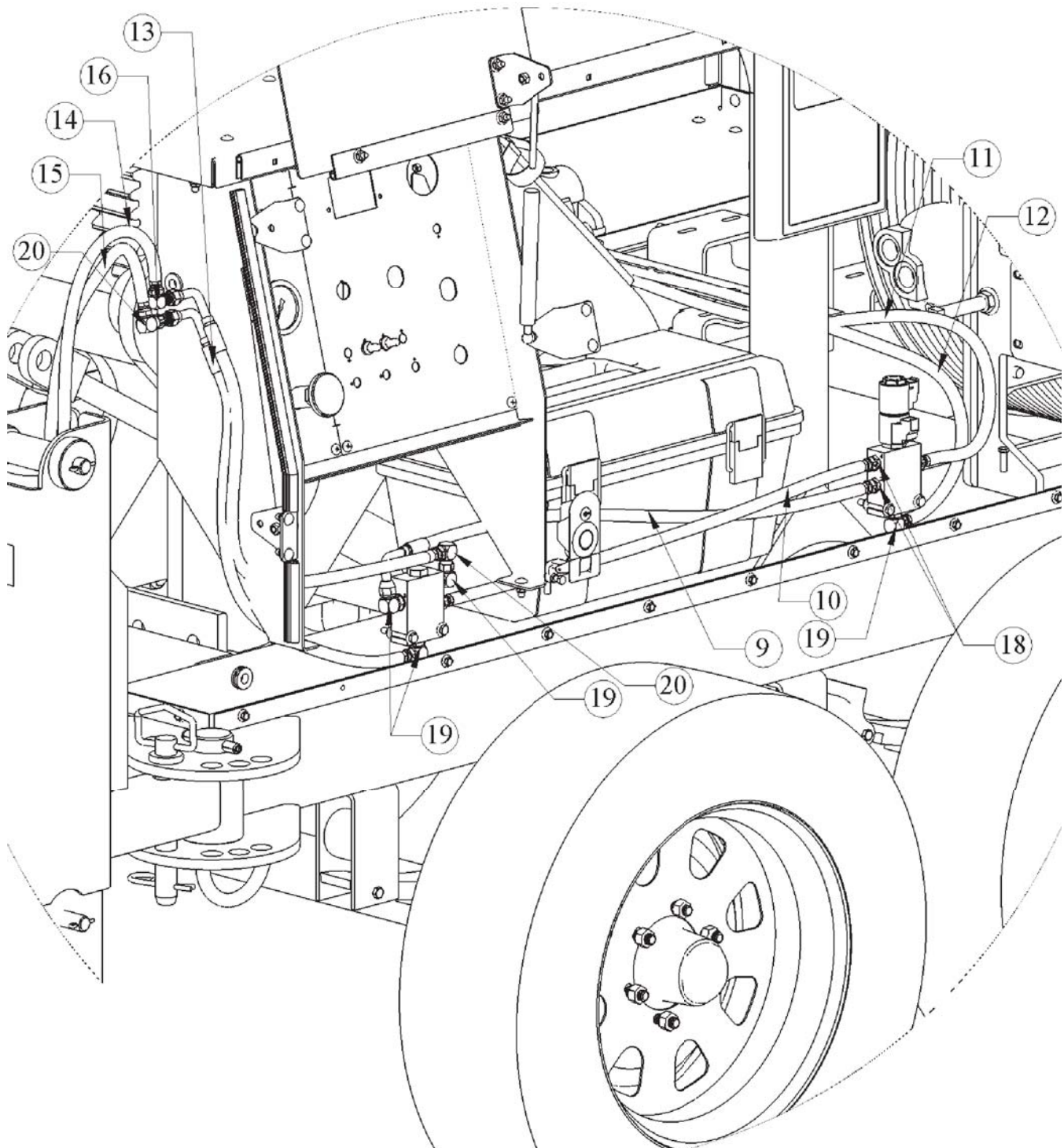


HYDRAULIC STABILIZER KIT

No.	Part No.	Description	Qty.	Remarks
1	296276-291	Hydraulic Stabilizer	2	
2	296276-304	Valve, 4-Way 3-Position	2	
3	296276-305	Valve, Pilot Operated Check	2	
4	5537-001	Boot, Toggle	2	
5	296276-306	Switch, Toggle Spdt - Momentary	2	
6	350-021	Bolt, HH, 1/4-20 X 2	8	
7	485-003	Washer, Flat 1/4	16	
8	403-001	Nut, 1/4-20 Top Lock	8	
9		Hose And Adapter Kit	1	
10	296279-069	Decal, Number 1	1	
11	296279-070	Decal, Number 2	1	

HOSE AND ADAPTER KIT, STABILIZERS - RIGHT SIDE

Figure 50-2

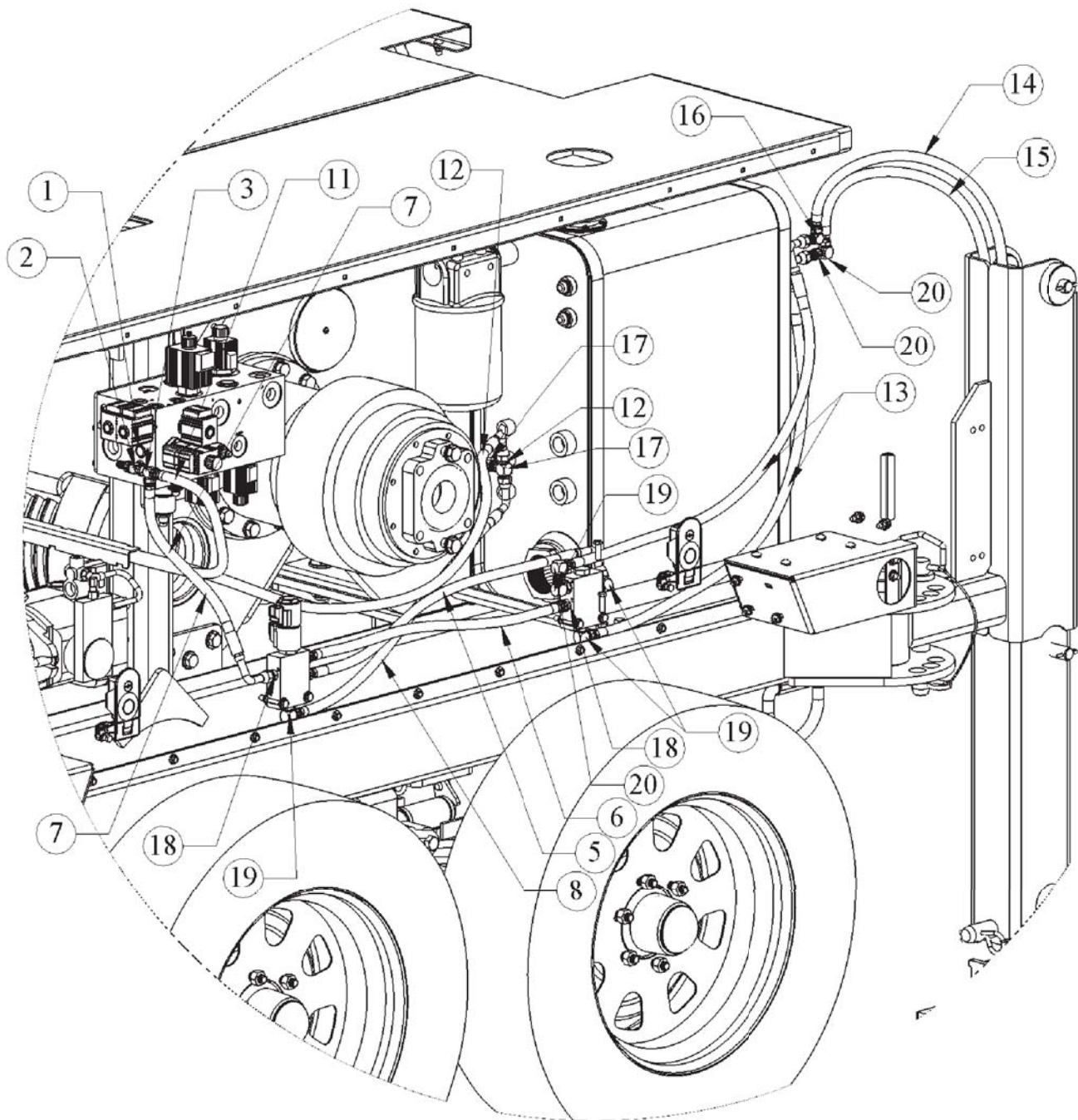


HOSE AND ADAPTER KIT, STABILIZERS - RIGHT SIDE

No.	Part No.	Description	Qty.	Remarks
1	296276-276	Plug, 4MB	1	
2	296276-277	Tee, 6MJ X 6MJ X 4MB	1	
3	296276-278	Tee, 6MJ X 6FJ X 6MJ	1	
4	296276-279	Bulkhead, 6MJ X 6MJ	2	
5	296276-280	Left To Check Valve	1	
6	912-4125	Left To Check Valve	1	
7	296276-282	Left To Pressure	1	
8	296276-283	Left To Tank	1	
9	296276-284	Right To Check Valve	1	
10	296276-285	Right To Check Valve	1	
11	296276-286	Right To Pressure	1	
12	296276-287	Right To Tank	1	
13	296276-288	Hose Bulkhead	4	
14	296276-289	Hose - Top Bulkhead	2	
15	296276-290	Hose - Bottom Bulkhead	2	
16	914-0025	Bulkhead, 6MJ X 6MJ	2	
17	286668-001	Tee, 6MJ X 6MJ X 6FJX	2	
18	296274-884	Adapter, 6MJ X 6MB	9	
19	296271-999	Elbow, 6MJ X 6MB 90°	8	
20	296279-113	Elbow, 6MJ X 6FJ 90°	4	
21	912-2092	Adapter, 6FJ X 4MJ	1	

HOSE AND ADAPTER KIT, STABILIZERS - LEFT SIDE

Figure 50-3

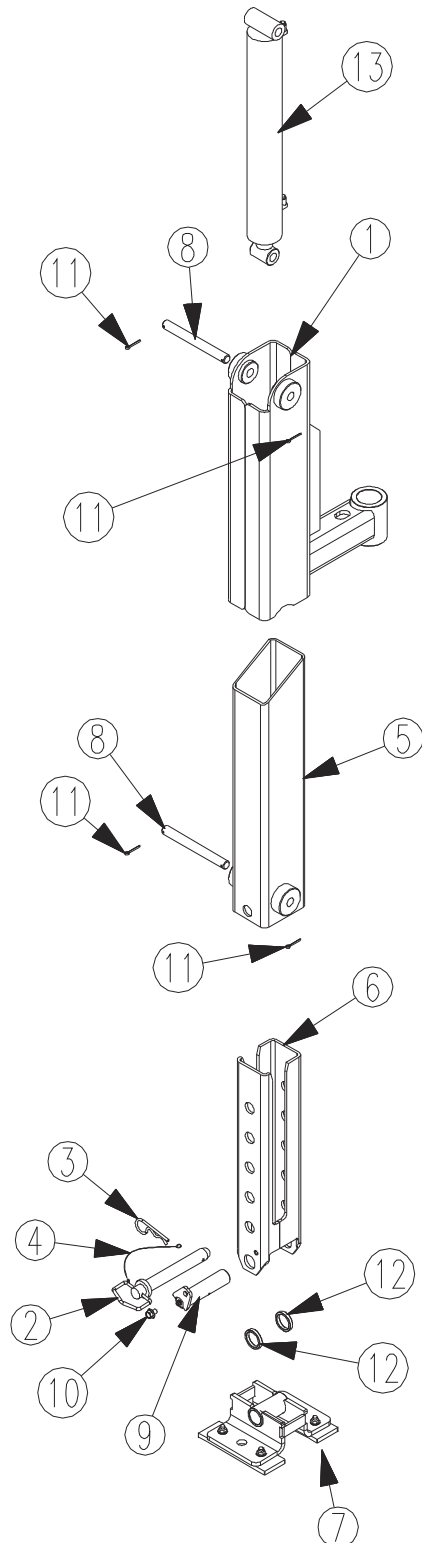


HOSE AND ADAPTER KIT, STABILIZERS - LEFT SIDE

No.	Part No.	Description	Qty.	Remarks
1	296276-276	Plug, 4MB	1	
2	296276-277	Tee, 6MJ X 6MJ X 4MB	1	
3	296276-278	Tee, 6MJ X 6FJ X 6MJ	1	
4	296276-279	Bulkhead, 6MJ X 6MJ	2	
5	296276-280	Left To Check Valve	1	
6	912-4125	Left To Check Valve	1	
7	296276-282	Left To Pressure	1	
8	296276-283	Left To Tank	1	
9	296276-284	Right To Check Valve	1	
10	296276-285	Right To Check Valve	1	
11	296276-286	Right To Pressure	1	
12	296276-287	Right To Tank	1	
13	296276-288	Hose Bulkhead	4	
14	296276-289	Hose - Top Bulkhead	2	
15	296276-290	Hose - Bottom Bulkhead	2	
16	914-0025	Bulkhead, 6MJ X 6MJ	2	
17	286668-001	Tee, 6MJ X 6MJ X 6FJX	2	
18	296274-884	Adapter, 6MJ X 6MB	9	
19	296271-999	Elbow, 6MJ X 6MB 90°	8	
20	296279-113	Elbow, 6MJ X 6FJ 90°	4	
21	912-2092	Adapter, 6FJ X 4MJ	1	

HYDRAULIC STABILIZER

Figure 50-4

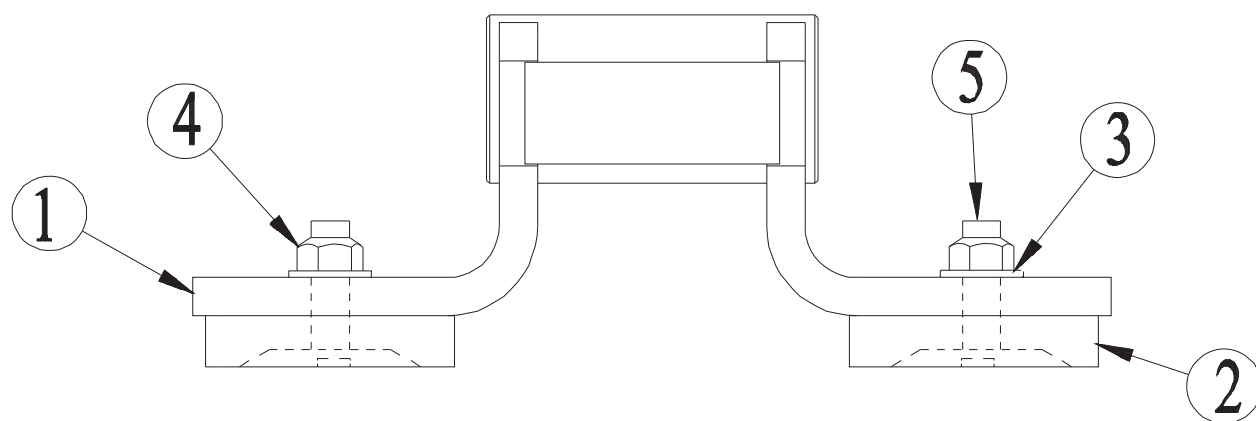


HYDRAULIC STABILIZER

No.	Part No.	Description	Qty.	Remarks
1	296276-292	Leg, Outer	1	
2	229227-295	Drawpin, 1 x 5 3/4	1	
3	229227-297	Bridge Pin 1"	1	
4	296253-235	Lanyard 12	1	
5	296276-294	Leg, Middle	1	
6	296276-293	Leg, Inner	1	
7	296276-296	Stabilizer Foot Sub-Assembly	1	
8	296276-300	Pin, Outtrigger - .75	2	
9	296276-298	Pin - 1.25 (with zerk)	1	
	293926-001	Grease Fitting, Str 1/8-27 Only	1	
10	296276-302	Bolt, 3/8-16 x 5" Flange	1	
11	296276-301	Pin, 1/8 x 1.25" Cotter	4	
12	296276-303	Spacer, Foot	2	
13	296276-295	Cylinder - 2.5 x 16"	1	

STABILIZER FOOT

Figure 50-5



STABILIZER FOOT

No.	Part No.	Description	Qty.	Remarks
1	296276-297	Foot, Stabilizer	1	
2		Leveling Pad	2	
3	296271-869	Washer, 3/8" - Hard	8	
4	416-001	Nut, 3/8-16 Top-Lock	4	
5		Screw, 3/8-16x1.5" FHSC	4	

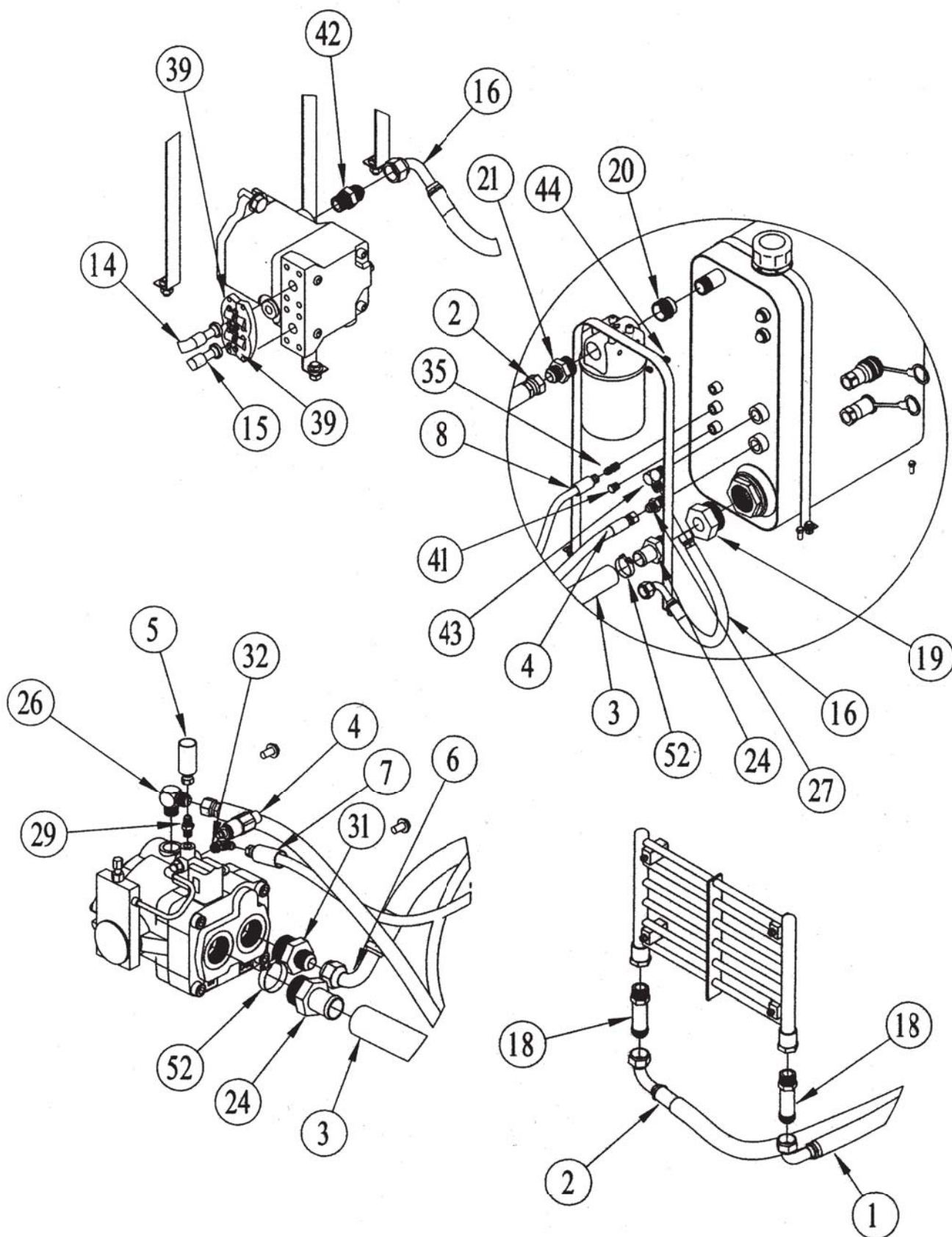
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HOSE AND ADAPTER KIT

SECTION 60

HOSE AND ADAPTER KIT (1 of 3)

Figure 60-1

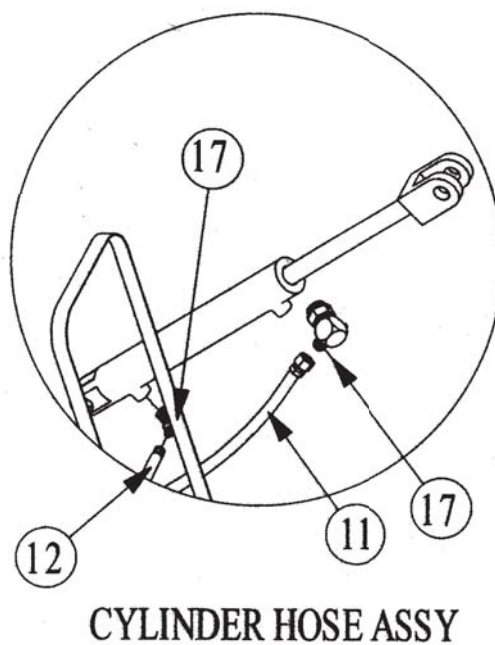
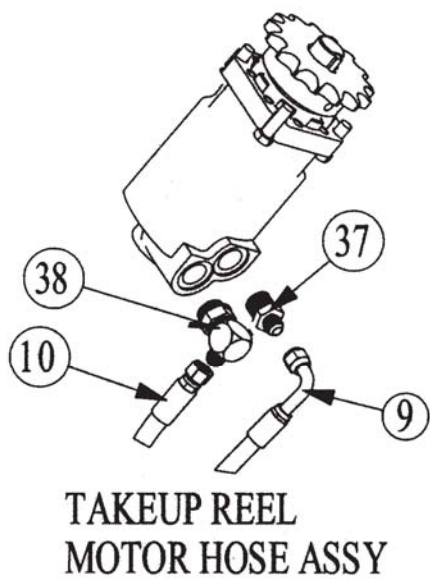
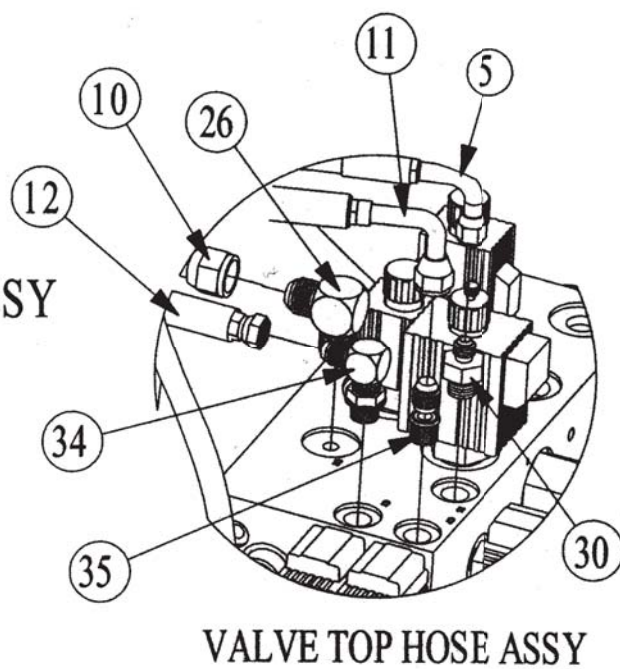
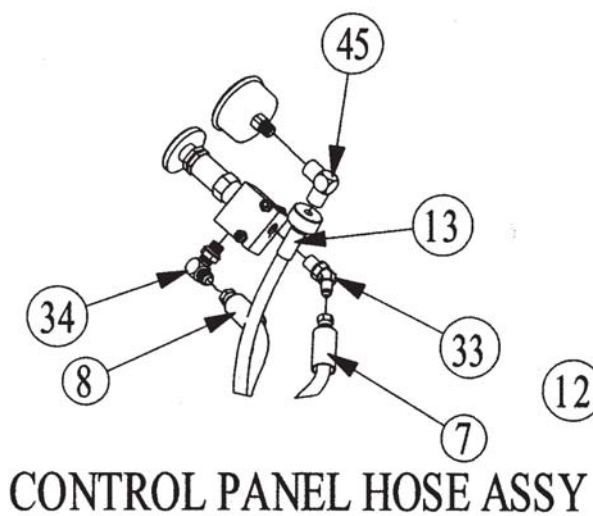


HOSE AND ADAPTER KIT (1 of 3)

No.	Part No.	Description	Qty.	Remarks
1	296271-793	Hose, Cooler Inlet	1	
2	296271-794	Hose, Cooler Outlet	1	
3	296274-797	Hose, Pump Suction	1	
4	296271-797	Hose, Pump Case Drain	1	
5	296271-978	Hose, Pump Soft Start	1	
6	296271-799	Hose, Pump Supply	1	
7	296271-800	Hose, Adj Valve Supply	1	
8	296271-802	Hose, Adj Valve Return	1	
9	296271-803	Hose, Reel Motor Supply	1	
10	296271-804	Hose, Reel Motor Return	1	
11	296271-806	Hose, Cylinder Rod End	1	
12	296271-807	Hose, Cylinder Base End	1	
13	296271-809	Hose, Gauge	1	
14	296271-811	Hose, Capston Motor For	1	
15	296271-812	Hose, Capston Motor Rev	1	
16	296271-814	Hose, Capston Motor Tank	1	
17	296271-808	Elbow, 6MJ x 8MP	2	
18	296271-795	Adapter, 16MJ x 16BM 4" Lg	2	
19	296271-817	Reducer, 32MB x 20FB	1	
20	296271-819	Reducer, 20MB x 16FP	1	
21	296271-818	Adapter, 16MJ x 20MB	1	
22	296271-823	Hose, Pressure Coupler	1	
23	296271-825	Hose, Return Coupler	1	
24	296274-796	Adapter, 20MB x 1.25 Bead	2	
25	296273-010	Adapter, 16MJ x 12MB	1	
26	296271-793	Elbow, 8MJ x 8MB 90	2	
27	296274-873	Adapter, 8MJ x 10MB	1	
28	296263-899	Elbow, 12MJ x 12MB 90	1	
29	60908-001	Adapter, 4MJ x 4MB	1	
30	296274-877	Adapter, 4MJ x 6MB	1	
31	85658-001	Adapter, 12MJ x 20MB	1	
32	59423-001	Elbow, 4MJ x 4MB 90	2	
33	296271-762	Elbow, 4MJ x 6MB 45	1	
34	296271-999	Elbow, 6MJ x 6MB 90	2	
35	296274-884	Adapter, 6MJ x 6MB	2	
36	296271-821	Adapter, 6MJ x 6MB Lg	1	
37	290957-001	Adapter, 8MJ x 12MB	1	
38	296271-805	Elbow, 8MJ x 12MB 90	1	
39	296271-813	Split Flange Kit 3/4 Code 62	2	
40	296271-820	Elbow, 12MJ x 12MB 45	2	
41	293804-001	Plug, 6MB	1	
42	296271-815	Adapter, 10MJ x 22MM	1	
43	290765-001	Elbow, 10MJ x 10MB 90	2	
44	296274-870	Plug 4MP	3	
45	296271-810	Elbow, 4FP x 4FP 90	1	
46	296271-824	Adapter, 12MJ x 12MP Bulkhead	2	
47	296274-874	Adapter, 10MJ x 10MB	1	
48	241136-001	Coupler, Female Quick Connect	1	
49	241163-001	Coupler, Male Quick Connect	1	
50	293868-001	Dust Plag	1	
51	293869-001	Dust Cap	1	
52	248849-001	Clamp, T-Bolt 1.63"	2	

HOSE AND ADAPTER KIT (2 of 3)

Figure 60-2

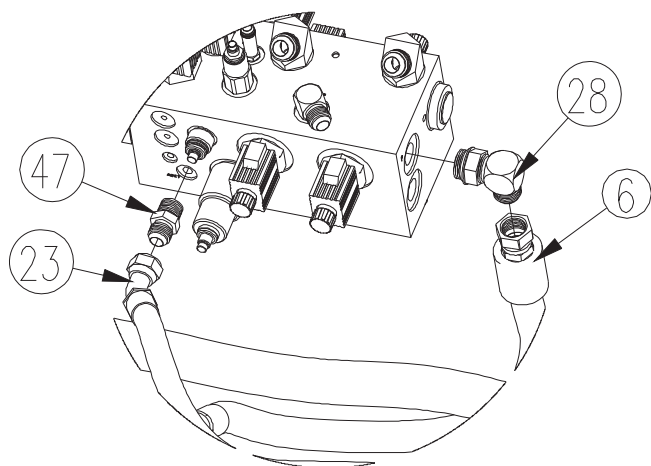


HOSE AND ADAPTER KIT (2 of 3)

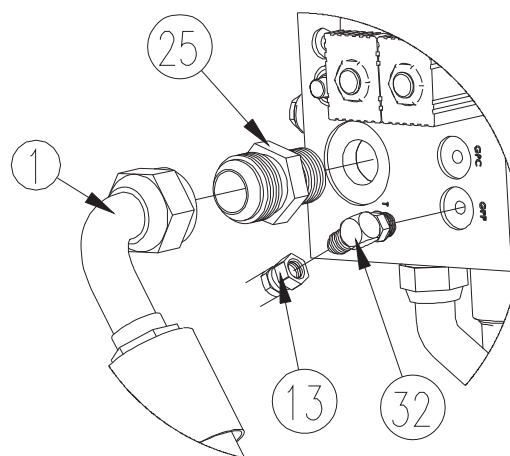
No.	Part No.	Description	Qty.	Remarks
1	296271-793	Hose, Cooler Inlet	1	
2	296271-794	Hose, Cooler Outlet	1	
3	296274-797	Hose, Pump Suction	1	
4	296271-797	Hose, Pump Case Drain	1	
5	296271-978	Hose, Pump Soft Start	1	
6	296271-799	Hose, Pump Supply	1	
7	296271-800	Hose, Adj Valve Supply	1	
8	296271-802	Hose, Adj Valve Return	1	
9	296271-803	Hose, Reel Motor Supply	1	
10	296271-804	Hose, Reel Motor Return	1	
11	296271-806	Hose, Cylinder Rod End	1	
12	296271-807	Hose, Cylinder Base End	1	
13	296271-809	Hose, Gauge	1	
14	296271-811	Hose, Capston Motor For	1	
15	296271-812	Hose, Capston Motor Rev	1	
16	296271-814	Hose, Capston Motor Tank	1	
17	296271-808	Elbow, 6MJ x 8MP	2	
18	296271-795	Adapter, 16MJ x 16BM 4" Lg	2	
19	296271-817	Reducer, 32MB x 20FB	1	
20	296271-819	Reducer, 20MB x 16FP	1	
21	296271-818	Adapter, 16MJ x 20MB	1	
22	296271-823	Hose, Pressure Coupler	1	
23	296271-825	Hose, Return Coupler	1	
24	296274-796	Adapter, 20MB x 1.25 Bead	2	
25	296273-010	Adapter, 16MJ x 12MB	1	
26	296271-793	Elbow, 8MJ x 8MB 90	2	
27	296274-873	Adapter, 8MJ x 10MB	1	
28	296263-899	Elbow, 12MJ x 12MB 90	1	
29	60908-001	Adapter, 4MJ x 4MB	1	
30	296274-877	Adapter, 4MJ x 6MB	1	
31	85658-001	Adapter, 12MJ x 20MB	1	
32	59423-001	Elbow, 4MJ x 4MB 90	2	
33	296271-762	Elbow, 4MJ x 6MB 45	1	
34	296271-999	Elbow, 6MJ x 6MB 90	2	
35	296274-884	Adapter, 6MJ x 6MB	2	
36	296271-821	Adapter, 6MJ x 6MB Lg	1	
37	290957-001	Adapter, 8MJ x 12MB	1	
38	296271-805	Elbow, 8MJ x 12MB 90	1	
39	296271-813	Split Flange Kit 3/4 Code 62	2	
40	296271-820	Elbow, 12MJ x 12MB 45	2	
41	293804-001	Plug, 6MB	1	
42	296271-815	Adapter, 10MJ x 22MM	1	
43	290765-001	Elbow, 10MJ x 10MB 90	2	
44	296274-870	Plug 4MP	3	
45	296271-810	Elbow, 4FP x 4FP 90	1	
46	296271-824	Adapter, 12MJ x 12MP Bulkhead	2	
47	296274-874	Adapter, 10MJ x 10MB	1	
48	241136-001	Coupler, Female Quick Connect	1	
49	241163-001	Coupler, Male Quick Connect	1	
50	293868-001	Dust Plag	1	
51	293869-001	Dust Cap	1	
52	248849-001	Clamp, T-Bolt 1.63"	2	

HOSE AND ADAPTER KIT (3 of 3)

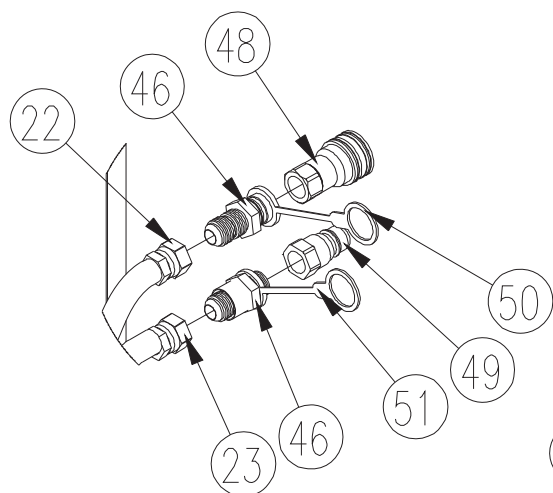
Figure 60-3



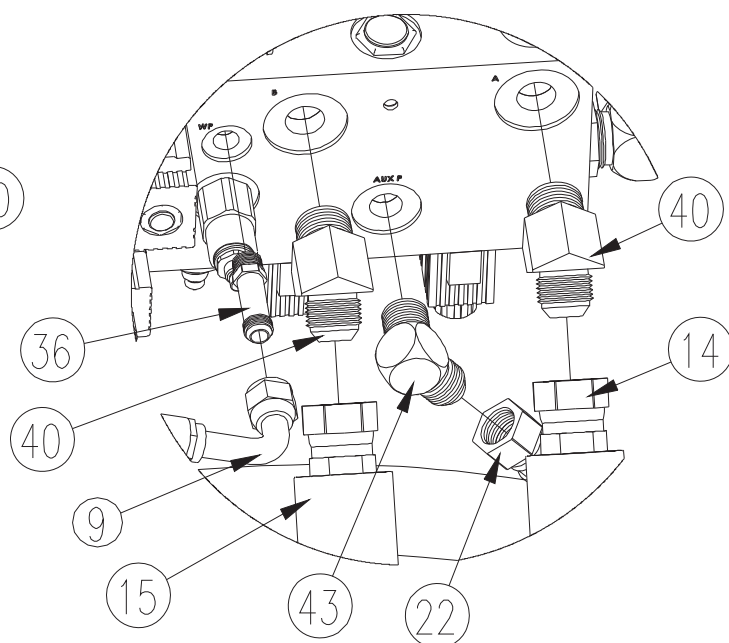
VALVE BACK AND
BOTTOM HOSE ASSY



VALVE FRONT HOSE ASSY



QUICK CONNECTS
HOSE ASSY



VALVE SIDE HOSE ASSY

HOSE AND ADAPTER KIT (3 of 3)

No.	Part No.	Description	Qty.	Remarks
1	296271-793	Hose, Cooler Inlet	1	
2	296271-794	Hose, Cooler Outlet	1	
3	296274-797	Hose, Pump Suction	1	
4	296271-797	Hose, Pump Case Drain	1	
5	296271-978	Hose, Pump Soft Start	1	
6	296271-799	Hose, Pump Supply	1	
7	296271-800	Hose, Adj Valve Supply	1	
8	296271-802	Hose, Adj Valve Return	1	
9	296271-803	Hose, Reel Motor Supply	1	
10	296271-804	Hose, Reel Motor Return	1	
11	296271-806	Hose, Cylinder Rod End	1	
12	296271-807	Hose, Cylinder Base End	1	
13	296271-809	Hose, Gauge	1	
14	296271-811	Hose, Capston Motor For	1	
15	296271-812	Hose, Capston Motor Rev	1	
16	296271-814	Hose, Capston Motor Tank	1	
17	296271-808	Elbow, 6MJ x 8MP	2	
18	296271-795	Adapter, 16MJ x 16BM 4" Lg	2	
19	296271-817	Reducer, 32MB x 20FB	1	
20	296271-819	Reducer, 20MB x 16FP	1	
21	296271-818	Adapter, 16MJ x 20MB	1	
22	296271-823	Hose, Pressure Coupler	1	
23	296271-825	Hose, Return Coupler	1	
24	296274-796	Adapter, 20MB x 1.25 Bead	2	
25	296273-010	Adapter, 16MJ x 12MB	1	
26	296271-793	Elbow, 8MJ x 8MB 90	2	
27	296274-873	Adapter, 8MJ x 10MB	1	
28	296263-899	Elbow, 12MJ x 12MB 90	1	
29	60908-001	Adapter, 4MJ x 4MB	1	
30	296274-877	Adapter, 4MJ x 6MB	1	
31	85658-001	Adapter, 12MJ x 20MB	1	
32	59423-001	Elbow, 4MJ x 4MB 90	2	
33	296271-762	Elbow, 4MJ x 6MB 45	1	
34	296271-999	Elbow, 6MJ x 6MB 90	2	
35	296274-884	Adapter, 6MJ x 6MB	2	
36	296271-821	Adapter, 6MJ x 6MB Lg	1	
37	290957-001	Adapter, 8MJ x 12MB	1	
38	296271-805	Elbow, 8MJ x 12MB 90	1	
39	296271-813	Split Flange Kit 3/4 Code 62	2	
40	296271-820	Elbow, 12MJ x 12MB 45	2	
41	293804-001	Plug, 6MB	1	
42	296271-815	Adapter, 10MJ x 22MM	1	
43	290765-001	Elbow, 10MJ x 10MB 90	2	
44	296274-870	Plug 4MP	3	
45	296271-810	Elbow, 4FP x 4FP 90	1	
46	296271-824	Adapter, 12MJ x 12MP Bulkhead	2	
47	296274-874	Adapter, 10MJ x 10MB	1	
48	241136-001	Coupler, Female Quick Connect	1	
49	241163-001	Coupler, Male Quick Connect	1	
50	293868-001	Dust Plag	1	
51	293869-001	Dust Cap	1	
52	248849-001	Clamp, T-Bolt 1.63"	2	

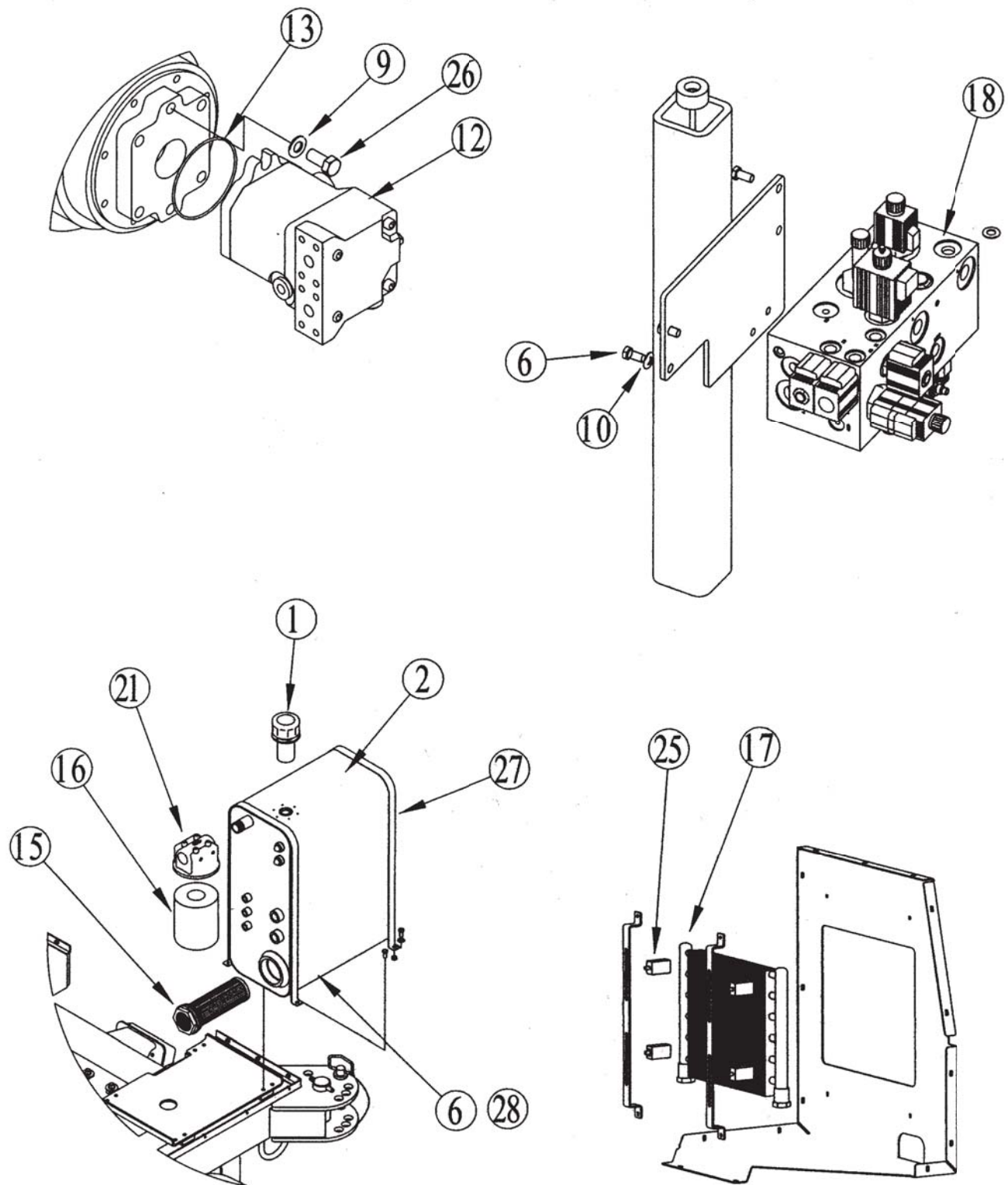
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HYDRAULICS

SECTION 70

HYDRAULICS (1 of 2)

Figure 70-1

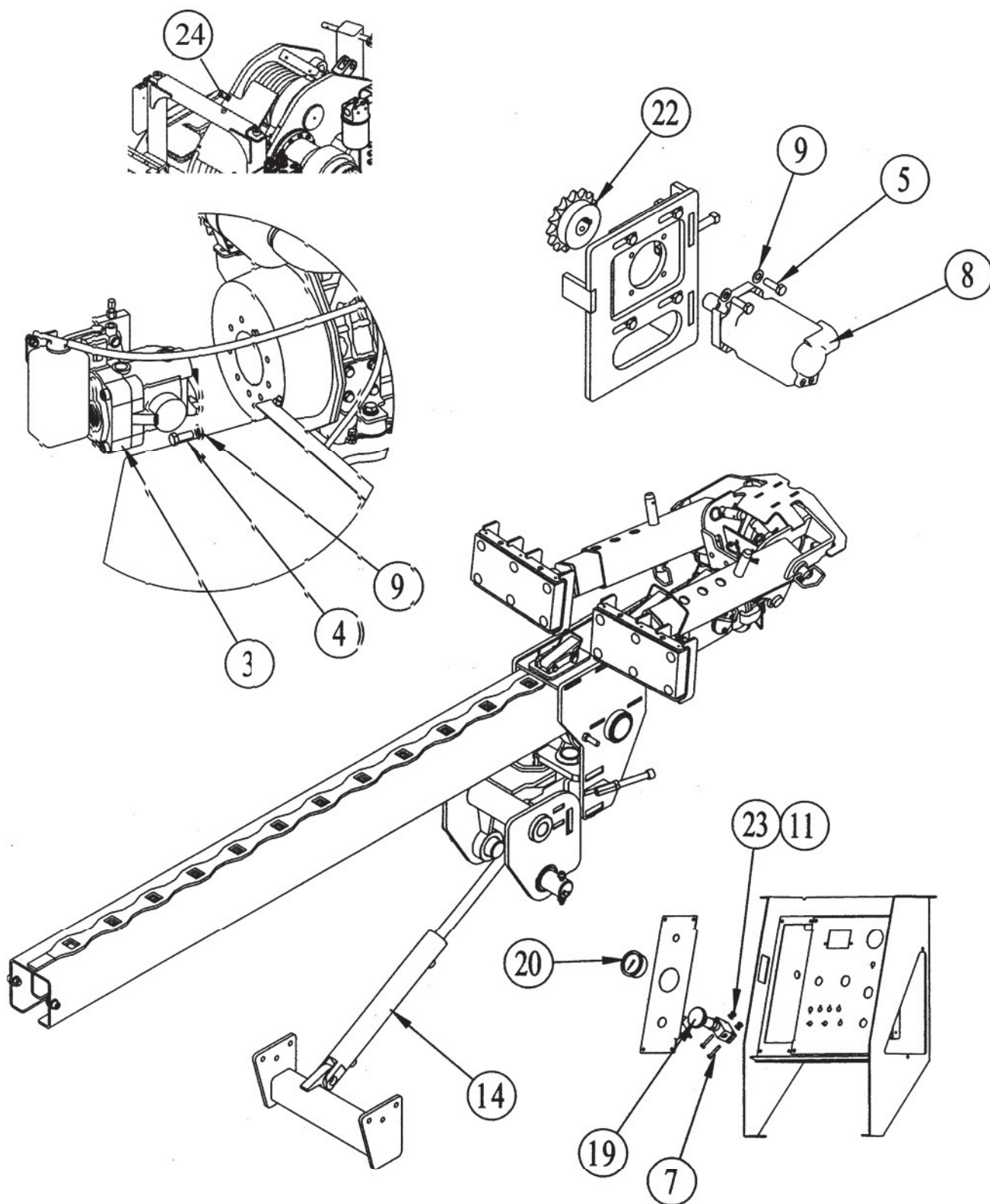


HYDRAULICS (1 of 2)

No.	Part No.	Description	Qty.	Remarks
1	296271-871	Oil Cap Assembly	1	
2	296274-911	Oil Tank	1	
3	296271-775	Pump, Parker	1	
4	358-012	Bolt, 1/2-13 x 1.25" HX HD	2	
5	75381-014	Bolt, HX HD 1/2-13 x 1.5" Gr.8	4	
6	16114-006	Bolt, HX HD 3/8-16 x .75" Gr.8	12	
7	238210-001	Bolt, HX HD 1/4-20 x 1.5" Gr.8	2	
8	296271-866	Motor, Reel Wind	1	
9	296271-785	Washer 1/2" Hard	8	
10	296271-869	Washer 3/8" Hard	8	
11	296271-826	Washer 1/4" Hard	2	
12	296271-781	Motor, Capstan	1	
13	296271-865	O-Ring, Parker #155	1	
14	296271-867	Downrigger Cylinder	1	
15	296271-870	Oil Tank Suction Screen	1	
16	296271-873	Filter, Parker 50AT	1	
17	296271-874	Oil Cooler	1	
18	296271-875	Capston Motor Control Valve	1	
19	296273-085	Variable Pressure Relief Valve	1	
20	296271-877	Pressure Gauge	1	
21	296271-872	Filter Head	1	
22	296273-006	Sprocket 15T	1	
23	403-001	Nut, 1/4-20 Top-Lock	2	
24	296271-770	Clamp 2"	1	
25	229229-245	Isolators, Oil Cooler	4	
26	296271-782	Bolt HX HD M14-2 x 30mm	2	
27	296274-913	Strap, Oil Tank	2	
28	416-001	Nut, 3/8-16 Top-Lock	4	

HYDRAULICS (2 of 2)

Figure 70-2

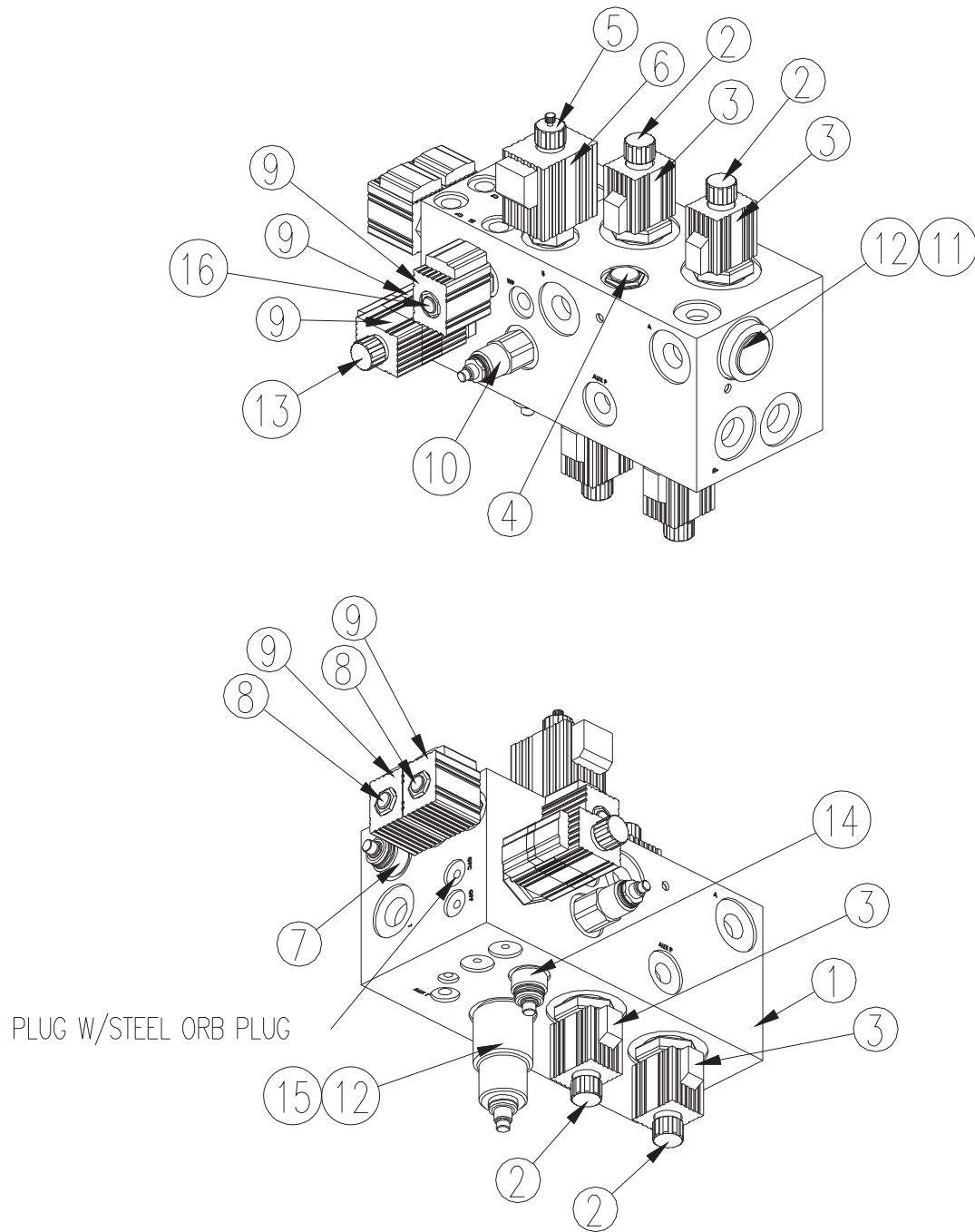


HYDRAULICS (2 of 2)

No.	Part No.	Description	Qty.	Remarks
1	296271-871	Oil Cap Assembly	1	
2	296274-911	Oil Tank	1	
3	296271-775	Pump, Parker	1	
4	358-012	Bolt, 1/2-13 x 1.25" HX HD	2	
5	75381-014	Bolt, HX HD 1/2-13 x 1.5" Gr.8	4	
6	16114-006	Bolt, HX HD 3/8-16 x .75" Gr.8	12	
7	238210-001	Bolt, HX HD 1/4-20 x 1.5" Gr.8	2	
8	296271-866	Motor, Reel Wind	1	
9	296271-785	Washer 1/2" Hard	8	
10	296271-869	Washer 3/8" Hard	8	
11	296271-826	Washer 1/4" Hard	2	
12	296271-781	Motor, Capstan	1	
13	296271-865	O-Ring, Parker #155	1	
14	296271-867	Downrigger Cylinder	1	
15	296271-870	Oil Tank Suction Screen	1	
16	296271-873	Filter, Parker 50AT	1	
17	296271-874	Oil Cooler	1	
18	296271-875	Capston Motor Control Valve	1	
19	296273-085	Variable Pressure Relief Valve	1	
20	296271-877	Pressure Gauge	1	
21	296271-872	Filter Head	1	
22	296273-006	Sprocket 15T	1	
23	403-001	Nut, 1/4-20 Top-Lock	2	
24	296271-770	Clamp 2"	1	
25	229229-245	Isolators, Oil Cooler	4	
26	296271-782	Bolt HX HD M14-2 x 30mm	2	
27	296274-913	Strap, Oil Tank	2	
28	416-001	Nut, 3/8-16 Top-Lock	4	

CAPSTAN MOTOR CONTROL VALVE

Figure 70-3



CAPSTAN MOTOR CONTROL VALVE

No.	Part No.	Description	Qty.	Remarks
0	296271-875	Capston Motor Control Valve	Ref	
2	296274-798	Directional Valve Cartridge-N.C.	4	
3	296274-799	Coil - 12 VDC	4	
4	296274-800	Shuttle Valve Cartridge	1	
5	296274-801	Directional Valve Cartridge-2 Pos. 3 Way	1	
6	296274-802	Coil -12 VDC	1	
7	296274-803	Needle Valve Cartridge	1	
8	296274-804	Directional Valve Cartridge-N.C.	2	
9	296274-805	Coil -12 VDC	5	
10	296274-806	Relief Valve Cartridge	1	
11	296274-807	Check Valve Cartridge	1	
12	296274-808	Single Pilot Piston	2	
13	296274-809	Directional Valve Cartridge-2 Pos. 3 Way	1	
14	296274-810	Pressure Reducing Valve Cartridge	1	
15	296274-811	Relief Valve Cartridge-Set to 250 PSI	1	
16	296274-812	Directional Valve Cartridge-N.O.	1	

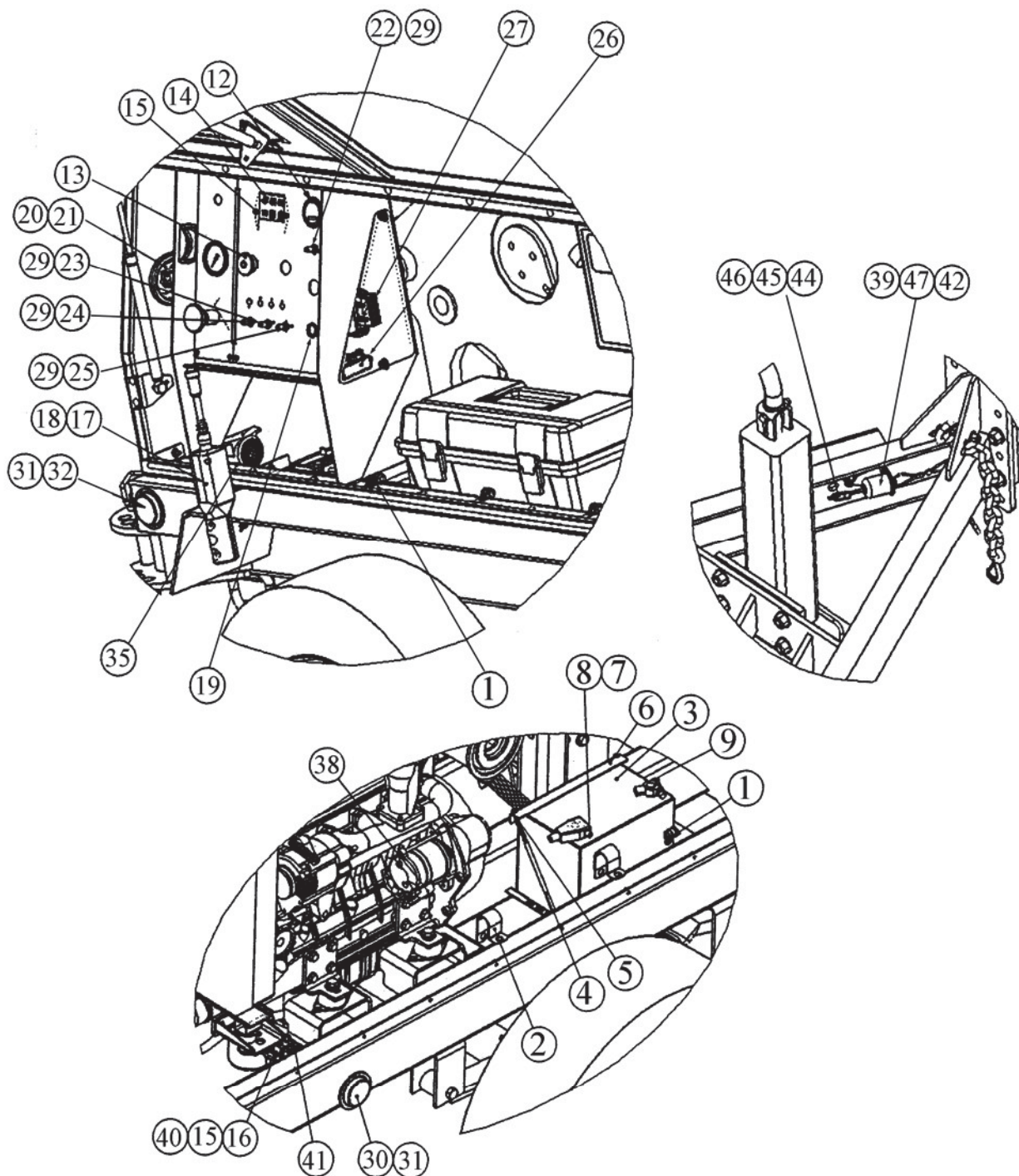
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ELECTRICAL ASSEMBLY

SECTION 80

ELECTRICAL ASSEMBLY (1 of 2)

Figure 80-1

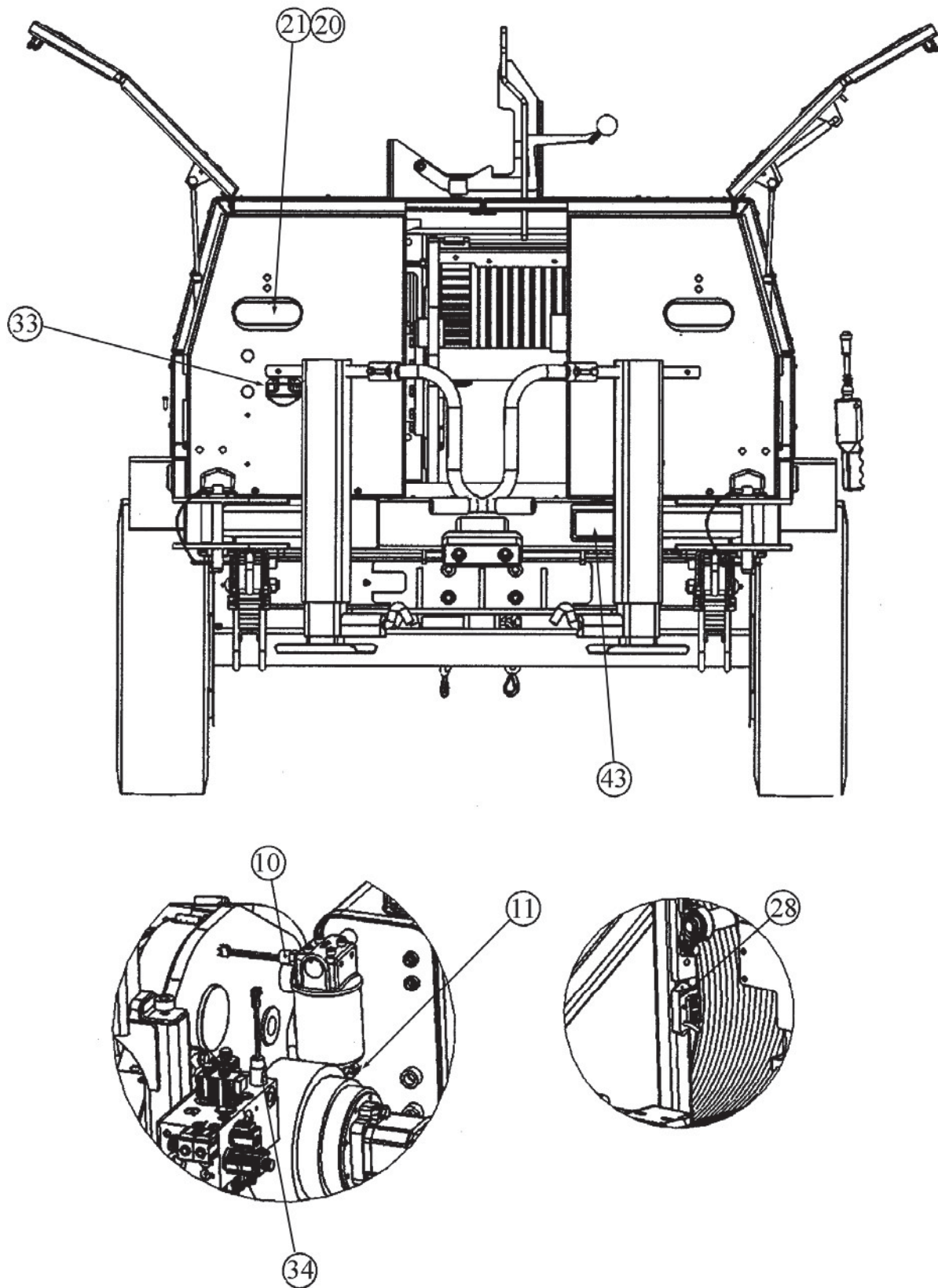


ELECTRICAL ASSEMBLY (1 of 2)

No.	Part No.	Description	Qty.	Remarks
1	290908-001	Clamp, 1/2" Cushion	6	
2	296271-765	Clamp, 1" Cushion	5	
3	296267-625	Battery	1	
4	248848-001	J-Bolt, Battery Hold Down	2	
5	403-001	Nut, 1/4-20 Top-Lock	2	
6	248920-001	Battery Holdown Angle	1	
7	296271-801	Boot, Pos Battery Cable	1	
8	296271-766	Battery Cable, 2ga Red Pos	1	
9	296271-767	Battery Cable, 2ga Black Neg	1	
10	296271-768	Return Filter Pressure Switch	1	
11	379829-001	Temp Switch, 210 Degree	1	
12	215914-001	Hour Meter	1	
13	296271-772	Switch, Emergency Stop	1	
14	296271-773	Module, Warning Light	1	
15	296271-776	Screw, 10-32 X 5/8 Phillip Hd	14	
16	296271-777	Nut, 10-32 Top-Lock	12	
17	229229-339	Pendent 2 Button	1	
18	229229-343	Pendent Cord	1	
19	296271-822	Nut, Pendent Receptacle	1	
20	229229-363	Tail Light Grommet	2	
21	229229-365	Tail Light	2	
22	67292-001	Switch, Toggle SPST	1	
23	296271-778	Switch, Spdt Panel On/Off/On	1	
24	296271-780	Switch, Dpdt Panel On/Off/On	1	
25	296271-779	Switch, 4pdt Panel Mom/Off/Mom	1	
26	296271-774	Module, Dual Relay	1	
27	296273-068	Harness, Wire	1	
28	281643-001	Module Ground Buss	1	
29	5537-001	Boot, Toggle	4	
30	79802-005	Yellow Marker Light	2	
31	79802-017	Marker Light Grommet	4	
32	79802-019	Red Marker Light	2	
33	102080-001	License Plate Light	2	
34	296271-769	Switch, Float Pressure	1	
35	296271-783	Back Up Alarm	1	
36	296271-784	Screw, 1/4-20 X 3/4 Phillip Hd	2	
37	405-001	Nut, 1/4-20 Flange	2	
38	296274-881	Boot Stud Terminal	1	
39	905279-001	Switch, Trailer Breakaway	1	
40	296271-786	Circuit Breaker, 50 Amp	1	
41	296271-787	Circuit Breaker, 20 Amp	1	
42	76533-001	Cable Hook	1	
43	245006-001	Light Manhole	1	
44	296271-788	Plug Deutsch #Dt06-2s	3	
45	296271-790	Lock, 2 Way Plug Deutsch #W2s	3	
46	296271-789	Socket, Deutsch #0462-209-16141	6	
47	1843001	Hook "S"	1	
48	1843001	Nylon Tie	7	

ELECTRICAL ASSEMBLY (2 of 2)

Figure 80-2



ELECTRICAL ASSEMBLY (2 of 2)

No.	Part No.	Description	Qty.	Remarks
1	290908-001	Clamp, 1/2" Cushion	6	
2	296271-765	Clamp, 1" Cushion	5	
3	296267-625	Battery	1	
4	248848-001	J-Bolt, Battery Hold Down	2	
5	403-001	Nut, 1/4-20 Top-Lock	2	
6	248920-001	Battery Holddown Angle	1	
7	296271-801	Boot, Pos Battery Cable	1	
8	296271-766	Battery Cable, 2ga Red Pos	1	
9	296271-767	Battery Cable, 2ga Black Neg	1	
10	296271-768	Return Filter Pressure Switch	1	
11	379829-001	Temp Switch, 210 Degree	1	
12	215914-001	Hour Meter	1	
13	296271-772	Switch, Emergency Stop	1	
14	296271-773	Module, Warning Light	1	
15	296271-776	Screw, 10-32 X 5/8 Phillip Hd	14	
16	296271-777	Nut, 10-32 Top-Lock	12	
17	229229-339	Pendent 2 Button	1	
18	229229-343	Pendent Cord	1	
19	296271-822	Nut, Pendent Receptacle	1	
20	229229-363	Tail Light Grommet	2	
21	229229-365	Tail Light	2	
22	67292-001	Switch, Toggle SPST	1	
23	296271-778	Switch, Spdt Panel On/Off/On	1	
24	296271-780	Switch, Dpdt Panel On/Off/On	1	
25	296271-779	Switch, 4pdt Panel Mom/Off/Mom	1	
26	296271-774	Module, Dual Relay	1	
27	296273-068	Harness, Wire	1	
28	281643-001	Module Ground Buss	1	
29	5537-001	Boot, Toggle	4	
30	79802-005	Yellow Marker Light	2	
31	79802-017	Marker Light Grommet	4	
32	79802-019	Red Marker Light	2	
33	102080-001	License Plate Light	2	
34	296271-769	Switch, Float Pressure	1	
35	296271-783	Back Up Alarm	1	
36	296271-784	Screw, 1/4-20 X 3/4 Phillip Hd	2	
37	405-001	Nut, 1/4-20 Flange	2	
38	296274-881	Boot Stud Terminal	1	
39	905279-001	Switch, Trailer Breakaway	1	
40	296271-786	Circuit Breaker, 50 Amp	1	
41	296271-787	Circuit Breaker, 20 Amp	1	
42	76533-001	Cable Hook	1	
43	245006-001	Light Manhole	1	
44	296271-788	Plug Deutsch #Dt06-2s	3	
45	296271-790	Lock, 2 Way Plug Deutsch #W2s	3	
46	296271-789	Socket, Deutsch #0462-209-16141	6	
47	1843001	Hook "S"	1	
48	1843001	Nylon Tie	7	

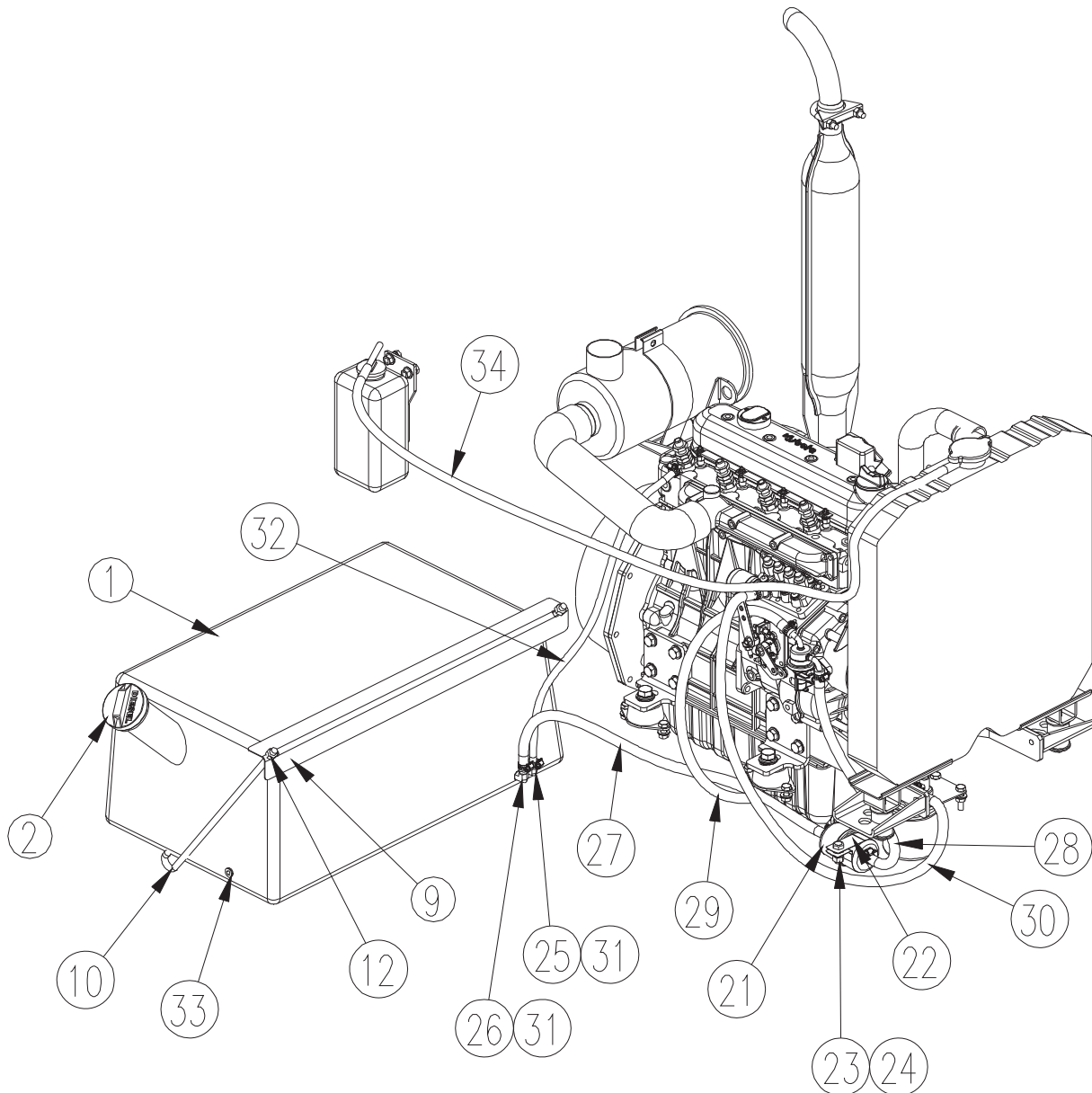
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ENGINE AND FUEL SYSTEM

SECTION 90

ENGINE AND FUEL SYSTEM (1 of 2)

Figure 90-1

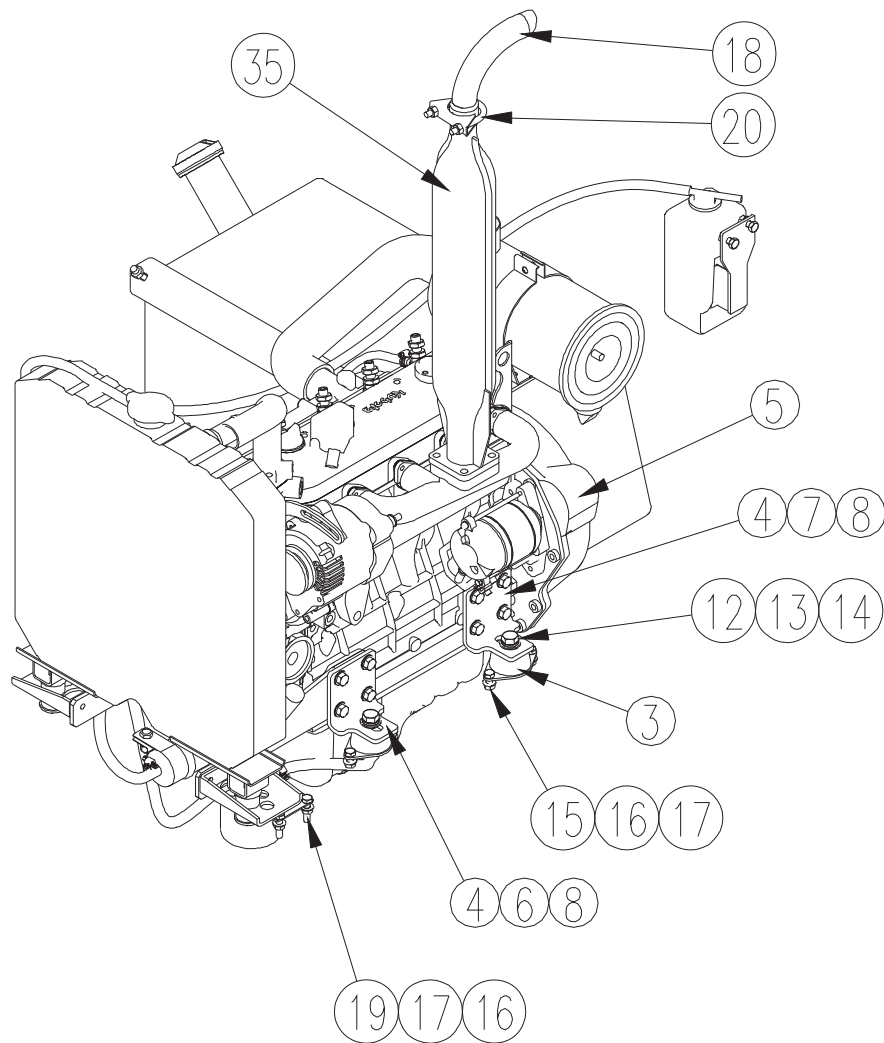


ENGINE AND FUEL SYSTEM (1 of 2)

No.	Part No.	Description	Qty.	Remarks
1	225771-001	Fuel Tank	1	
2	225861-001	Cap, Fuel	1	
3	296274-813	Isolator, Rubber	4	
4	296271-960	Bracket, Engine Mount	4	
5	296271-966	Engine Kubota V1505	1	
6	296271-962	Bolt, Hex HD M10x125mm x 1.25"	10	
7	296271-961	Bolt, Hex HD M10x125mm x 1"	6	
8	296271-869	Washer, 3/8 Hard Flat	16	
9	296274-879	Fuel Tank Holdown Angle	1	
10	296274-880	J-Bolt, Fuel Tank Holdown	2	
12	251769-001	Bolt, 1/2-13x 1.25" HX HD	4	
13	480-011	Washer, Lock 1/2"	4	
14	485-011	Washer, 1/2"	4	
15	235742-001	Screw, Hex Head Cap	10	
16	296271-964	Washer, 5/16" - Hard	12	
17	296271-965	Nut, 5/16-18 GR8	12	
18	296271-968	Elbow, Exhaust Outlet	1	
19	248031-001	Bolt, Hex HD 5/16-18 x 1.25 GR8	2	
20	229229-187	Muffler Clamp 1.5"	1	
21	296271-972	Filter, Fuel	1	
22	296271-770	Clamp, 2"	1	
23	16114-010	Bolt, Hex HD 3/8-16 x 1" GR8	1	
24	235725-001	Nut, 3/8-16 GR8	1	
25	296271-976	Elbow, 3/16 Hose x 1/4" NPT Brass	1	
26	296271-970	Elbow, 5/16 Hose x 1/4" NPT Brass	1	
27	296271-971	Hose, 5/16 Fuel 29" Long	1	
28	296271-973	Hose, Fuel In Line	1	
29	296271-294	Hose, 5/16 Fuel 39" Long	1	
30	296271-975	Hose, 5/16 Fuel 33" Long	1	
31	1578-001	Clamp, 1/4" Hose	10	
32	296274-907	Hose, 3/16 Fuel 29" Long	1	
33	732-003	Plug, 1/4 NPT Brass	1	
34	296271-969	Hose, Water 60" Long	1	
35	296274-787	Muffler	1	

ENGINE AND FUEL SYSTEM (2 of 2)

Figure 90-2



ENGINE AND FUEL SYSTEM (2 of 2)

No.	Part No.	Description	Qty.	Remarks
1	225771-001	Fuel Tank	1	
2	225861-001	Cap, Fuel	1	
3	296274-813	Isolator, Rubber	4	
4	296271-960	Bracket, Engine Mount	4	
5	296271-966	Engine Kubota V1505	1	
6	296271-962	Bolt, Hex HD M10x125mm x 1.25"	10	
7	296271-961	Bolt, Hex HD M10x125mm x 1"	6	
8	296271-869	Washer, 3/8 Hard Flat	16	
9	296274-879	Fuel Tank Holdown Angle	1	
10	296274-880	J-Bolt, Fuel Tank Holdown	2	
12	251769-001	Bolt, 1/2-13x 1.25" HX HD	4	
13	480-011	Washer, Lock 1/2"	4	
14	485-011	Washer, 1/2"	4	
15	235742-001	Screw, Hex Head Cap	10	
16	296271-964	Washer, 5/16" - Hard	12	
17	296271-965	Nut, 5/16-18 GR8	12	
18	296271-968	Elbow, Exhaust Outlet	1	
19	248031-001	Bolt, Hex HD 5/16-18 x 1.25 GR8	2	
20	229229-187	Muffler Clamp 1.5"	1	
21	296271-972	Filter, Fuel	1	
22	296271-770	Clamp, 2"	1	
23	16114-010	Bolt, Hex HD 3/8-16 x 1" GR8	1	
24	235725-001	Nut, 3/8-16 GR8	1	
25	296271-976	Elbow, 3/16 Hose x 1/4" NPT Brass	1	
26	296271-970	Elbow, 5/16 Hose x 1/4" NPT Brass	1	
27	296271-971	Hose, 5/16 Fuel 29" Long	1	
28	296271-973	Hose, Fuel In Line	1	
29	296271-294	Hose, 5/16 Fuel 39" Long	1	
30	296271-975	Hose, 5/16 Fuel 33" Long	1	
31	1578-001	Clamp, 1/4" Hose	10	
32	296274-907	Hose, 3/16 Fuel 29" Long	1	
33	732-003	Plug, 1/4 NPT Brass	1	
34	296271-969	Hose, Water 60" Long	1	
35	296274-787	Muffler	1	

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ALPHABETICAL INDEX

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Adapter, 16MJ x 12MB	296273-010	25-77,
Adapter, 16MJ x 16BM 4" Lg	296271-795	18-77,
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Adapter, 6MJ X 6MB	296274-884	18-67,
Adapter, 6MJ x 6MB	296274-884	35-77,
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Bolt, SHC 1/4-20 x .625"	296273-141	15-49,
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