

HAMMERHEAD HYDRAULIC POWER SUPPLY UNIT PP70

PARTS MANUAL

MODELS

DESCRIPTION

HYDRAULIC POWERPACK PP70
HYDRAULIC POWERPACK PP70-H
HYDRAULIC POWERPACK PP70-M

PART NUMBER/RTM

(296304-080, RTM-175)
(296304-046, RTM-180)
(296304-084, RTM-176)



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PARTS MANUAL PART NUMBER: PM1352, (296339096) | SERIAL NUMBER 9980 AND HIGHER | UPDATED 10/28/2009

PARTS MANUAL INTRODUCTION

HammerHead Hydraulic PowerPack PP70 Series

HOW TO USE THIS 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.hammerheadtrenchless.com for any updates.

Earth Tool Company 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.

GLOSSARY OF TERMS

RH – Replaceable Head, SR – Screw Reverse, PP – Power Port, AH – Active Head, CAT – Catamount, SW – Sidewalker, BL – Boltless, AR – Air Reverse

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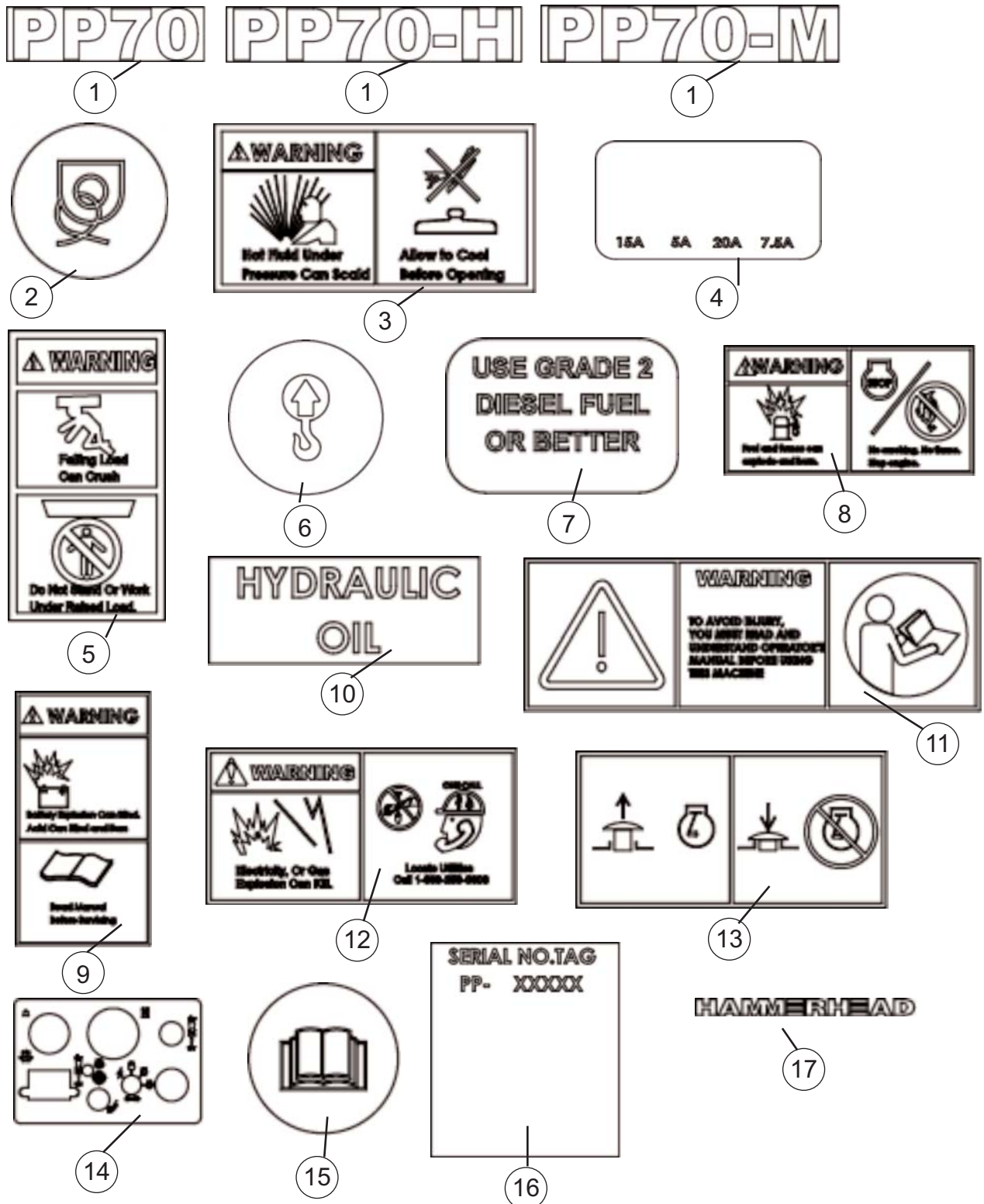
HammerHead Hydraulic PowerPack PP70 Series

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HYDRAULIC POWERPACK PP70 SERIES

EXPLODED VIEW

DECAL SECTION



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HYDRAULIC POWERPACK PP70 SERIES

PARTS LIST

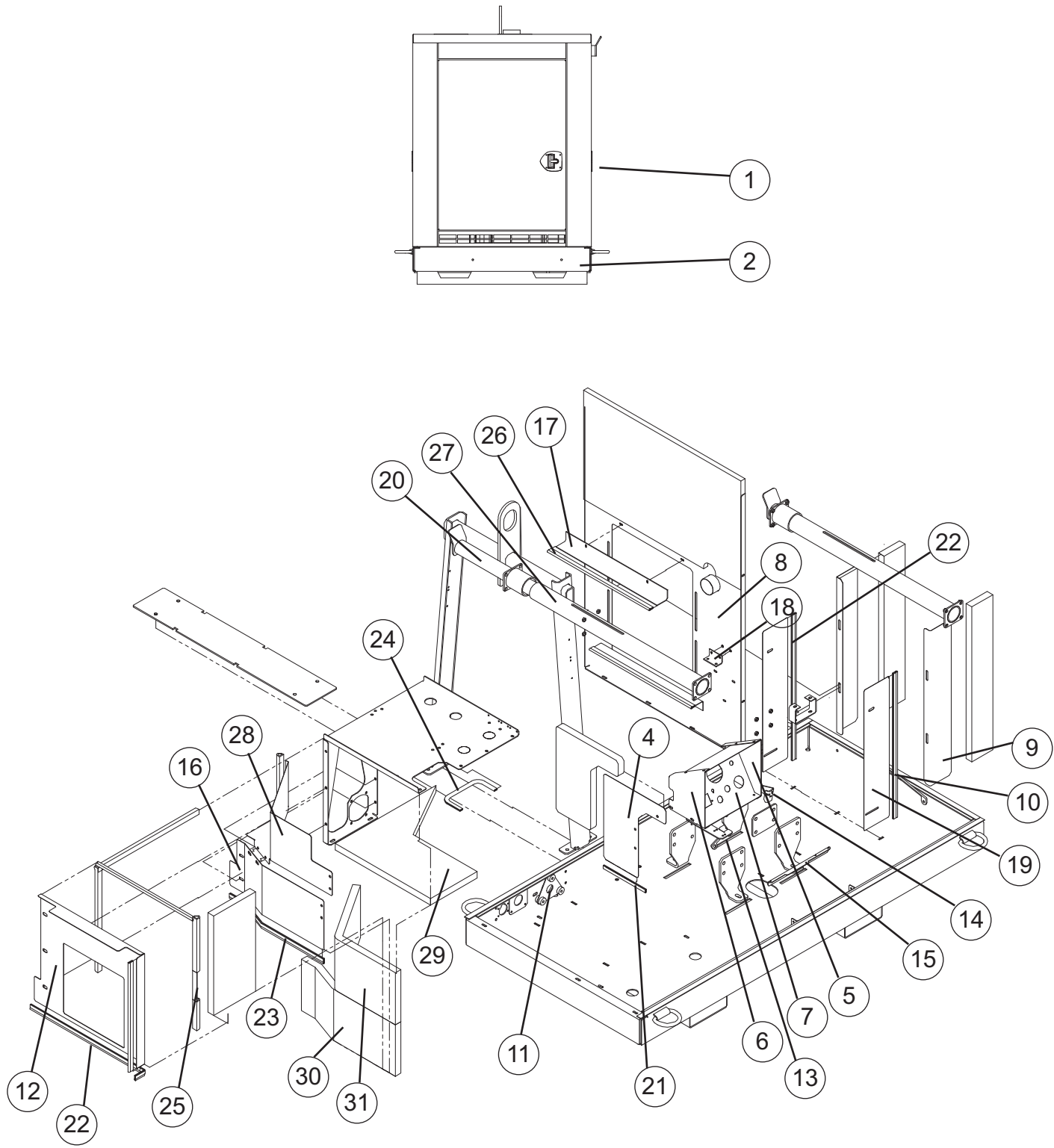
Number	Part Number	Description	Quantity	Serial Number	Remarks
1	296304175	DECAL, PP70	2		
1	296304058	DECAL, PP70-H	2		
1	400004021	DECAL, PP70-M	2		
2	296276455	DECAL, TIE DOWN	4		
3	296276472	DECAL, COOLANT WARNING	1		
4	296276481	DECAL, FUSE	1		
5	296276469	DECAL, FALLING LOAD	1		
6	296276492	DECAL, LIFT POINT	1		
7	70000098	DECAL, DIESEL FUEL	1		
8	296276471	DECAL, REFUEL WARNING	1		
9	296276470	DECAL, WARNING BATTERY	1		
10	2326756	DECAL, HYDRAULIC OIL	1		
11	296287123	DECAL, READ OPERATOR MANUAL	1		
12	400004007	DECAL, ONE CALL	1		
13	296304172	DECAL, REMOTE STOP	1		
14	296304173	DECAL, CONTROL PANEL	1		
15	296304174	DECAL, OPERATOR'S MANUAL	1		
16	400004008	DECAL, SERIAL NO. TAG	1		
17	296304221	DECAL, BLACK HAMMERHEAD	2		

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HYDRAULIC POWERPACK PP70 SERIES

EXPLODED VIEW

SHEET METAL ASSEMBLY (1 OF 2) ALL MODELS



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HYDRAULIC POWERPACK PP70 SERIES

PARTS LIST

Number	Part Number	Description	Quantity	Serial Number	Remarks
1	296304146	BASE FRAME WELDMENT	1		
2	296304139	ENCLOSURE, PP70	1		
4	296304135	PANEL, FLYWHEEL	1		
5	296304142	PANEL, SIDE, RIGHT	1		
6	296304143	PANEL, SIDE, LEFT	1		
7	296304144	PANEL, CONTROL	1		
8	296304147	RADIATOR PANEL ASSEMBLY	1		
9	296304137	BAFFLE - SOUND	2		
10	296304145	SUPPORT, RADIATOR PANEL	1		
11	296304169	PANEL, BULKHEAD	1		
12	296304134	PANEL, OIL COOLER	1		
13	296304148	BRACKET, SOLENOID MOUNTING	1		
14	296306507	BRACKET, THROTTLE CABLE	1		
15	296273084	BRACKET, BATTERY	1		
16	296304133	AIR DUCT, BOTTOM	1		
17	296287229	BAFFLE, RADIATOR	2		
18	296276351	BRACKET, WATER TANK	1		
19	296287230	PANEL, RADIATOR, LEFT	2		
20	296304136	HOLDER, INSIDE HOSE	2		
21	296304152	EDGE GUARD - 10"	1		
22	296304151	SEAL, BULB - 30"	3		
23	296304150	SEAL, BULB - 25.5"	1		
24	296304149	EDGE GUARD - 20.25"	1		
25	296293654	CUSHION, GRILL STRAP	1		
26	296304163	SEAL, BULB - 24.25"	2		
27	296304131	HOLDER, OUTSIDE HOSE	2		
28	296304132	AIR DUCT, TOP	1		
29	296304153	FOAM, FUEL PAN	1		
30	296304155	FOAM, BOTTOM DUCT	1		
31	296304154	FOAM, TOP DUCT	1		

HYDRAULIC POWERPACK

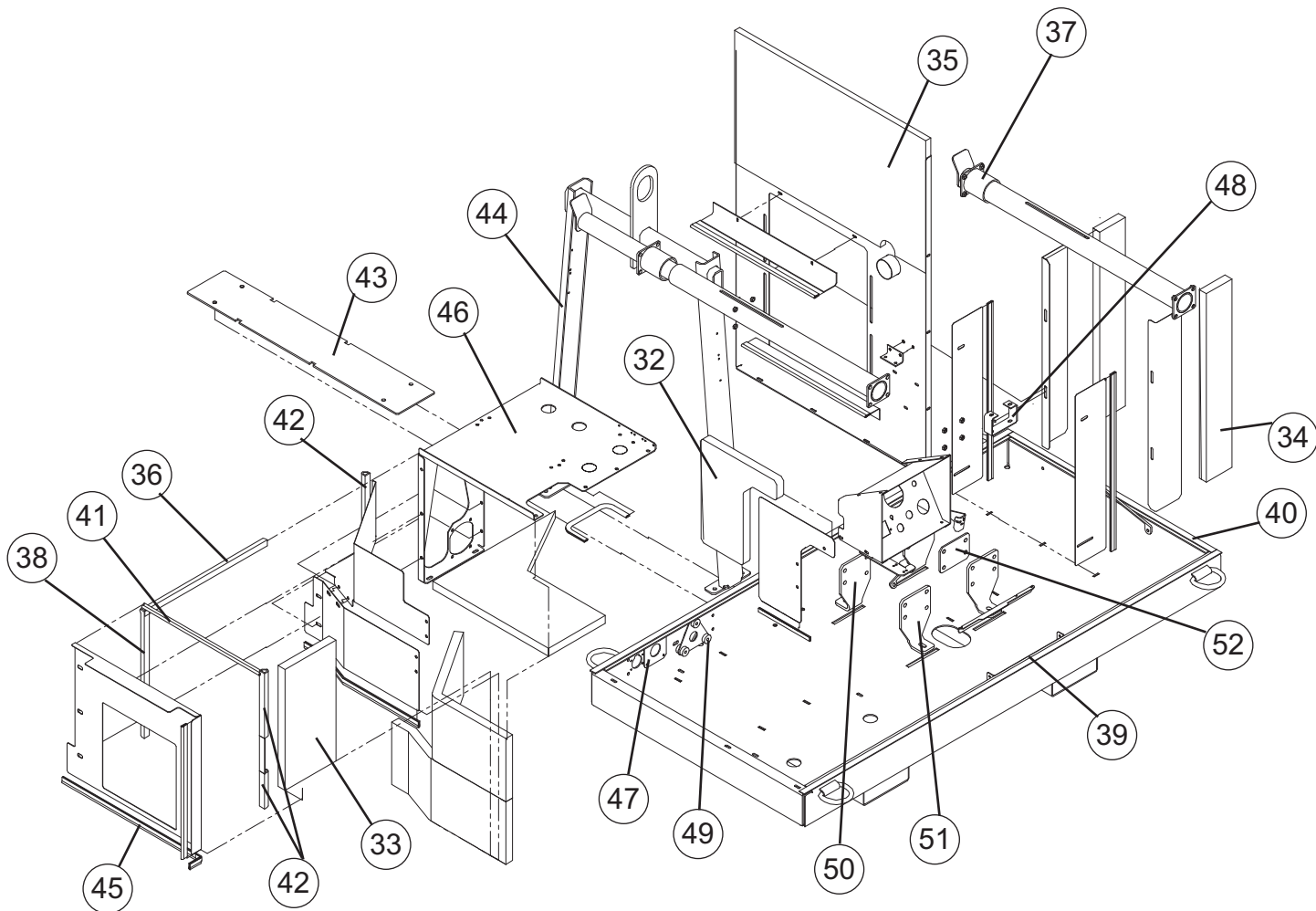
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EXPLODED VIEW

SHEET METAL ASSEMBLY (2 OF 2) ALL MODELS



HYDRAULIC POWERPACK PP70 SERIES

PARTS LIST

Number	Part Number	Description	Quantity	Serial Number	Remarks
32	296304157	FOAM, FLYWHEEL PANEL	1		
33	296304156	FOAM, OIL TANK	1		
34	296304162	FOAM, RADIATOR BAFFLE	2		
35	296304158	FOAM, RADIATOR PANEL	1		
36	296304159	SEAL, RUBBER BULB - 24"	1		
37	296304138	SOCKET, HOSE HOLDER	2		
38	296304160	SEAL, RUBBER BULB - 21.5"	1		
39	296304166	CUSHION - 82"	2		
40	296304167	CUSHION - 40"	1		
41	296304168	SEAL, BULB 90° - 23"	1		
42	296304161	SEAL, RUBBER BULB - 11"	3		
43	296304141	PLATE, LIFT EYE	1		
44	296304140	LIFT EYE ASSEMBLY	1		
45	296304171	SEAL, BULB - 22.5"	1		
46	400004020	FUEL TANK SUPPORT	1		
47	400004019	BRACKET, BULKHEAD	1		
48	296276372	AIR CLEANER BRACKET	1		
49	296304067	ISOLATOR	3		
50	296276359	ENGINE MOUNT BRACKET A	2		
51	296276415	ENGINE MOUNT BRACKET B	2		
52	296287224	SPACER, ENGINE MOUNT BRACKET A	1		

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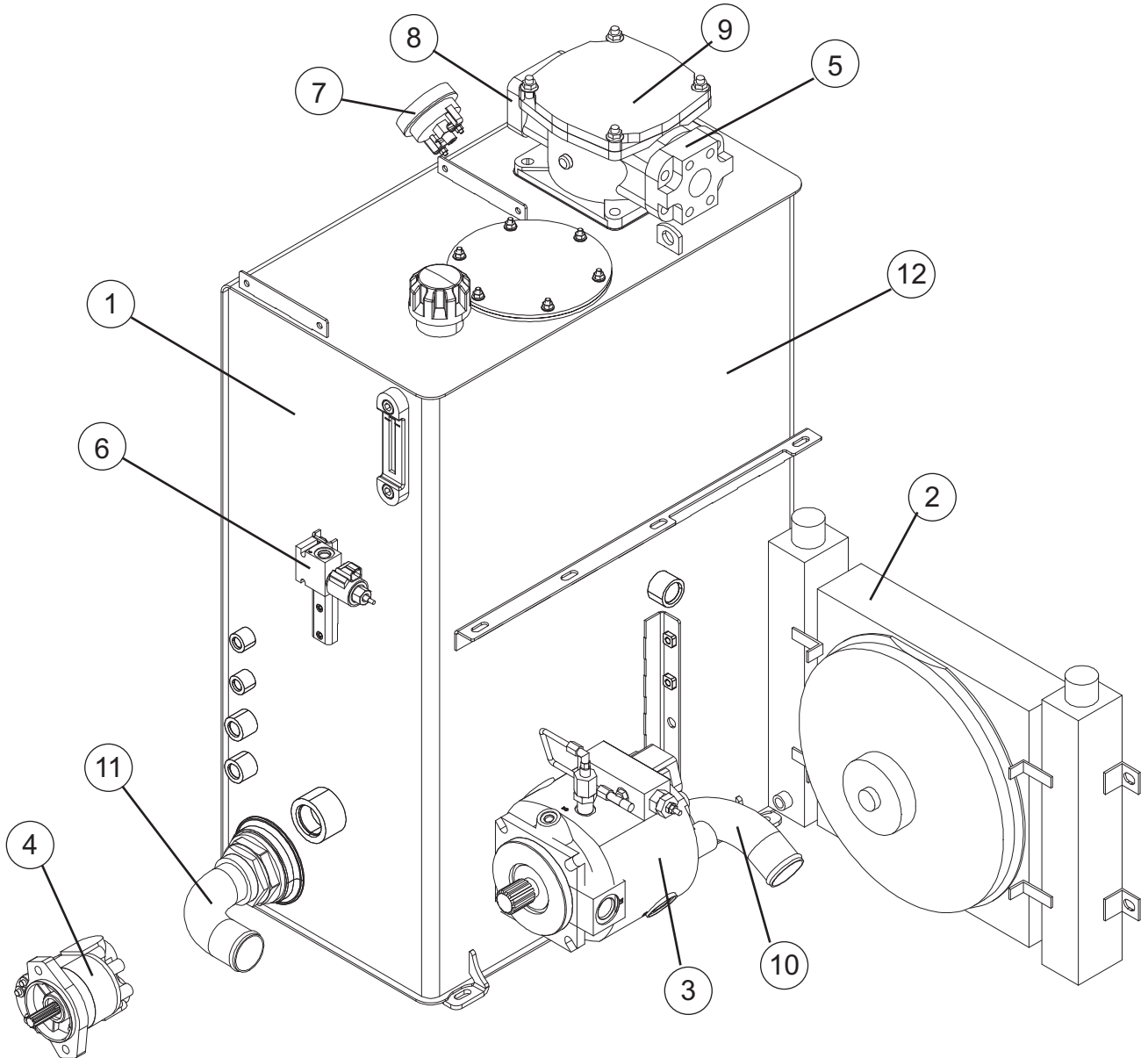
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EXPLODED VIEW

PP70 HYDRAULIC ASSEMBLY (1 OF 3)



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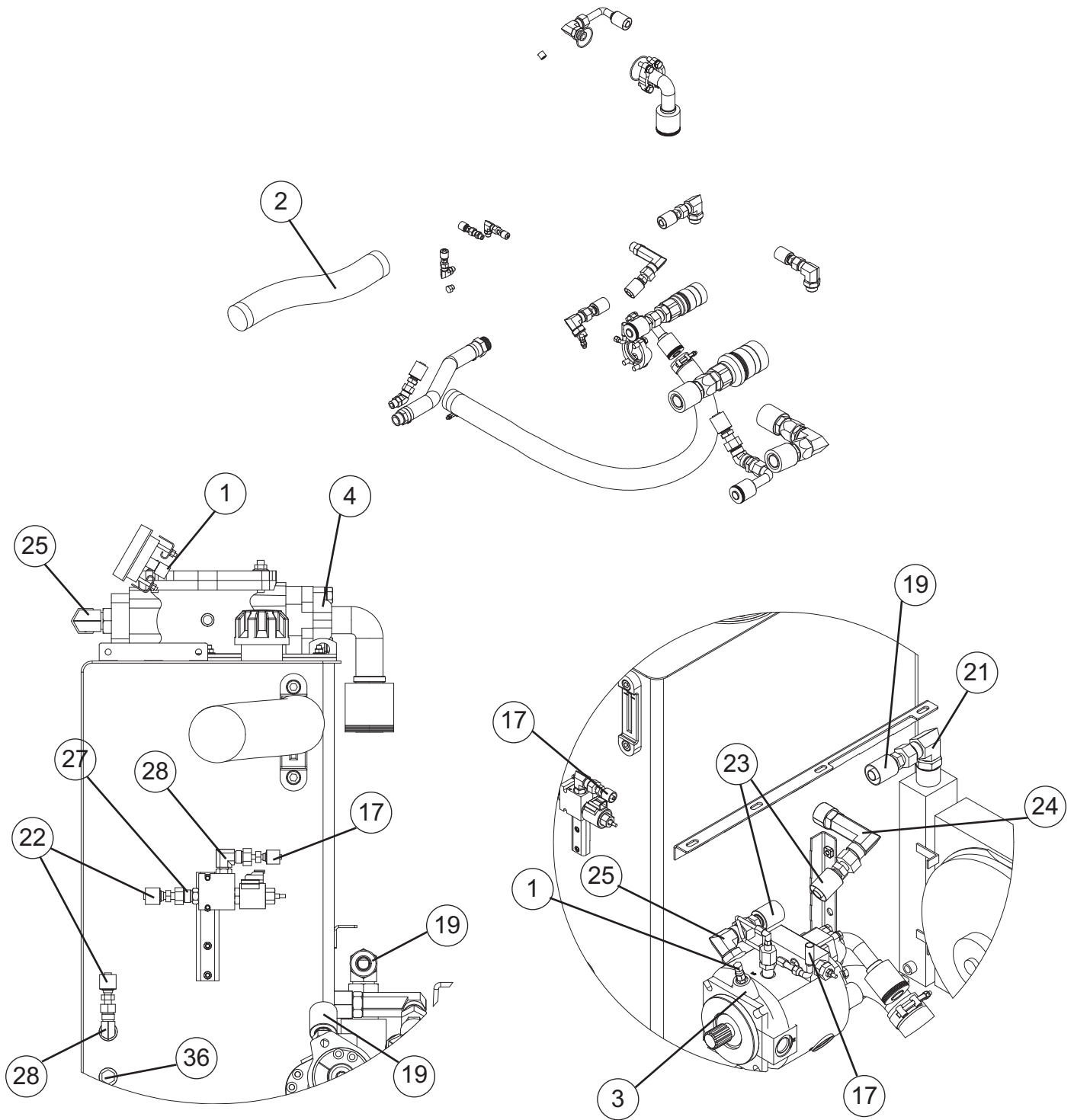
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PP70 HYDRAULIC ASSEMBLY (2 OF 3)



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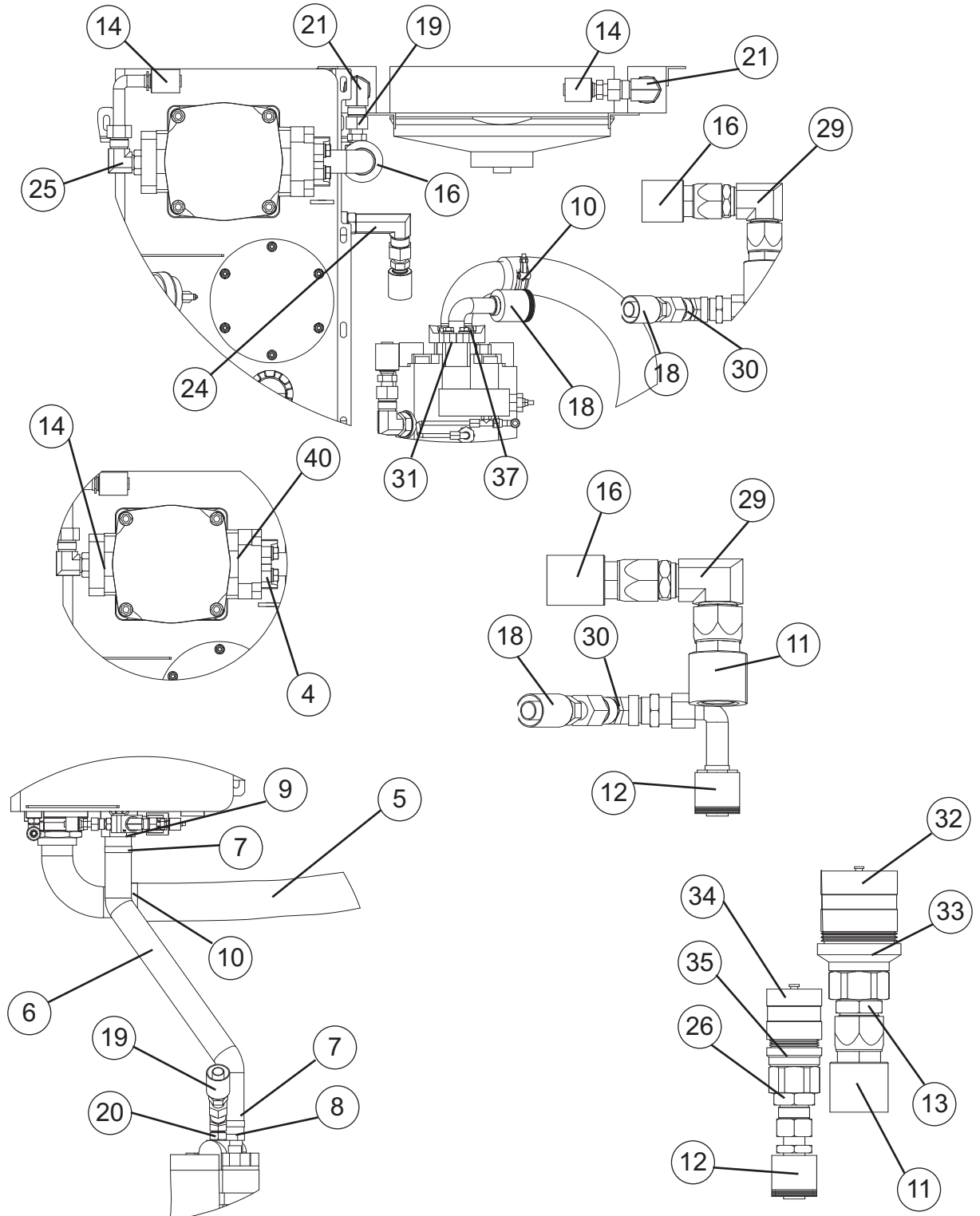
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EXPLODED VIEW

PP70 HYDRAULIC ASSEMBLY (3 OF 3)



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PARTS LIST

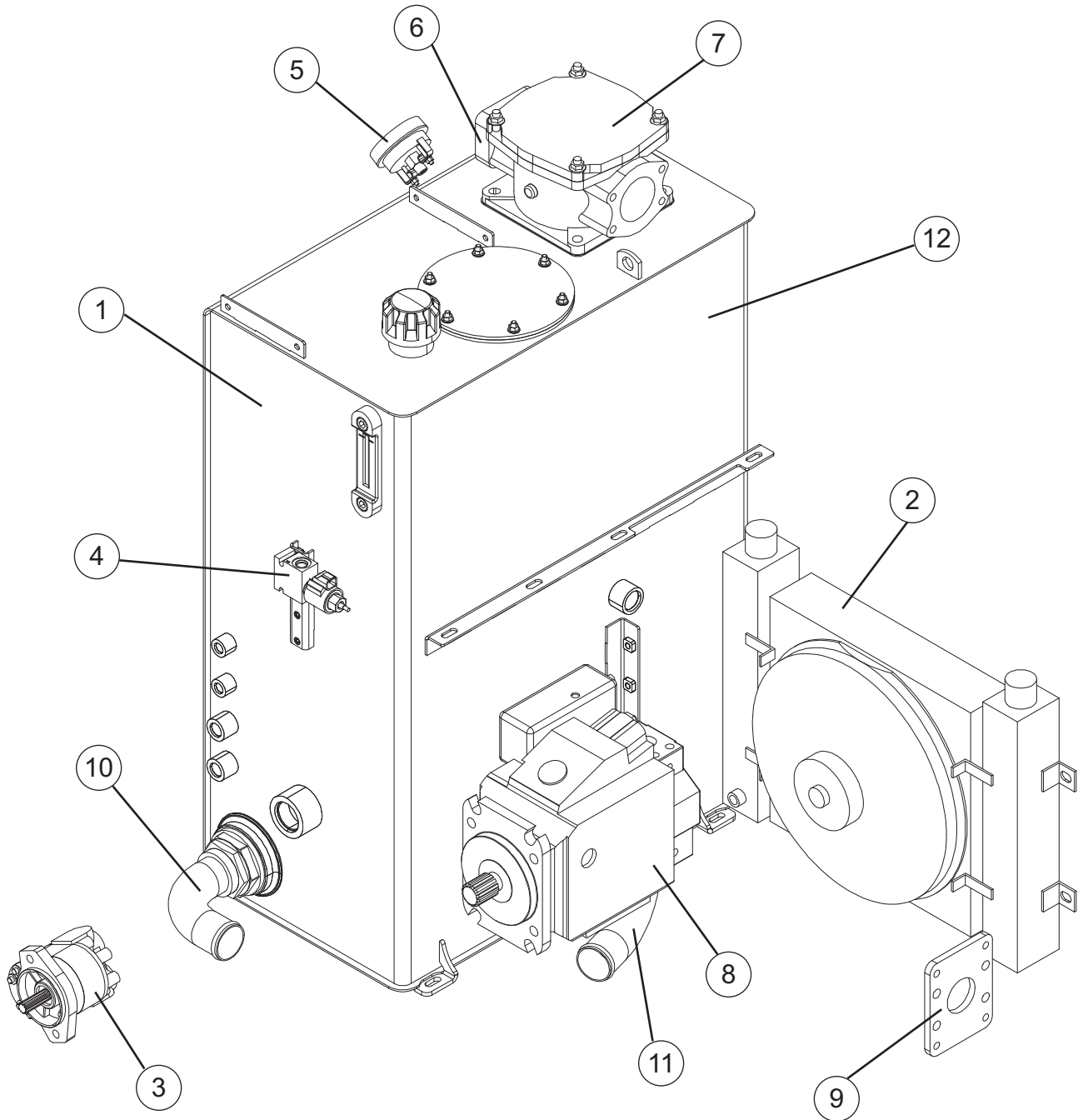
Number	Part Number	Description	Quantity	Serial Number	Remarks
4	296285431	FLANGE KIT 1.5" CODE 61	1		
5	296276387	HOSE, PUMP SUCTION	1		
6	296304098	HOSE, 1.25 SUCTION	1		
7	248849001	CLAMP, T-BOLT 1.63	2		
8	296304097	ADAPTER, 16MB X 1.25 BARB	1		
9	296274796	ADAPTER, 20MB X 1.25 BARB	1		
10	296276369	CLAMP, T-BOLT 2.5" OD	2		
11	296304185	HOSE, 24FJ-24FJ X 480	1		
12	296304183	HOSE, 16FO-16FO90 X 480 W/SLEEVE	1		
13	600067001	ADAPTER, 24MJ X 24MB	1		
14	296304182	HOSE, 12FO-12FO90L X 47	1		
16	296304184	HOSE, 24FL90-24FJ X 50"	1		
18	296304180	HOSE, 16FO-16FL90 X 91 CODE 61	1		
19	296304177	HOSE, 12FO-10FO X 45 W/SLEEVE	1		
20	72427001	ELBOW, 10MO X 10MB 45°	1		
21	72439001	ELBOW, 12MO X 16MB 90°	2		
24	292594003	ELBOW, 12MO X 12MB 90° LONG	1		
25	72419001	ELBOW, 12MO X 12MB 90°	2		
26	292594001	ADAPTER, 16MO X 20MB	1		
29	102621002	ELBOW, 24MJ X 24MJ 90° BH	1		
30	400006008	ELBOW, 16MO 45° BH	1		
31	296304101	FLANGE KIT, SPLIT 1.00" CODE 61	1		
32	296304075	CAP, MALE	1		
33	296304076	COUPLER, MALE 1-1/2" ORB	1		
34	296287227	CAP, MALE	1		
35	296304069	COUPLER, MALE 1-1/4" ORB	1		
37	296276403	FLANGE KIT, 2" CODE 61	1		

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EXPLODED VIEW

PP70-H HYDRAULIC ASSEMBLY (1 OF 3)



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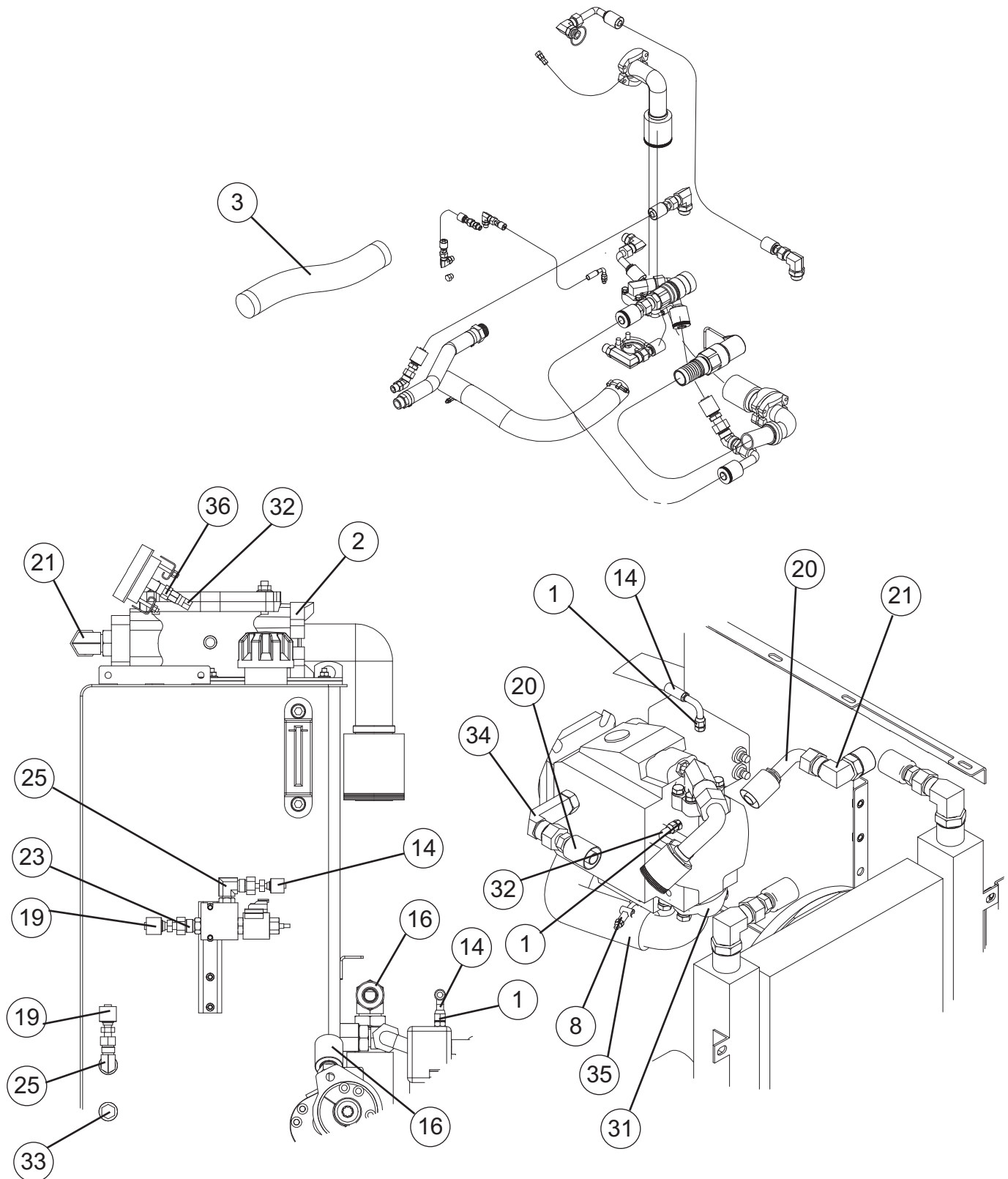
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PP70-H HYDRAULIC ASSEMBLY (2 OF 3)

HYDRAULIC POWERPACK



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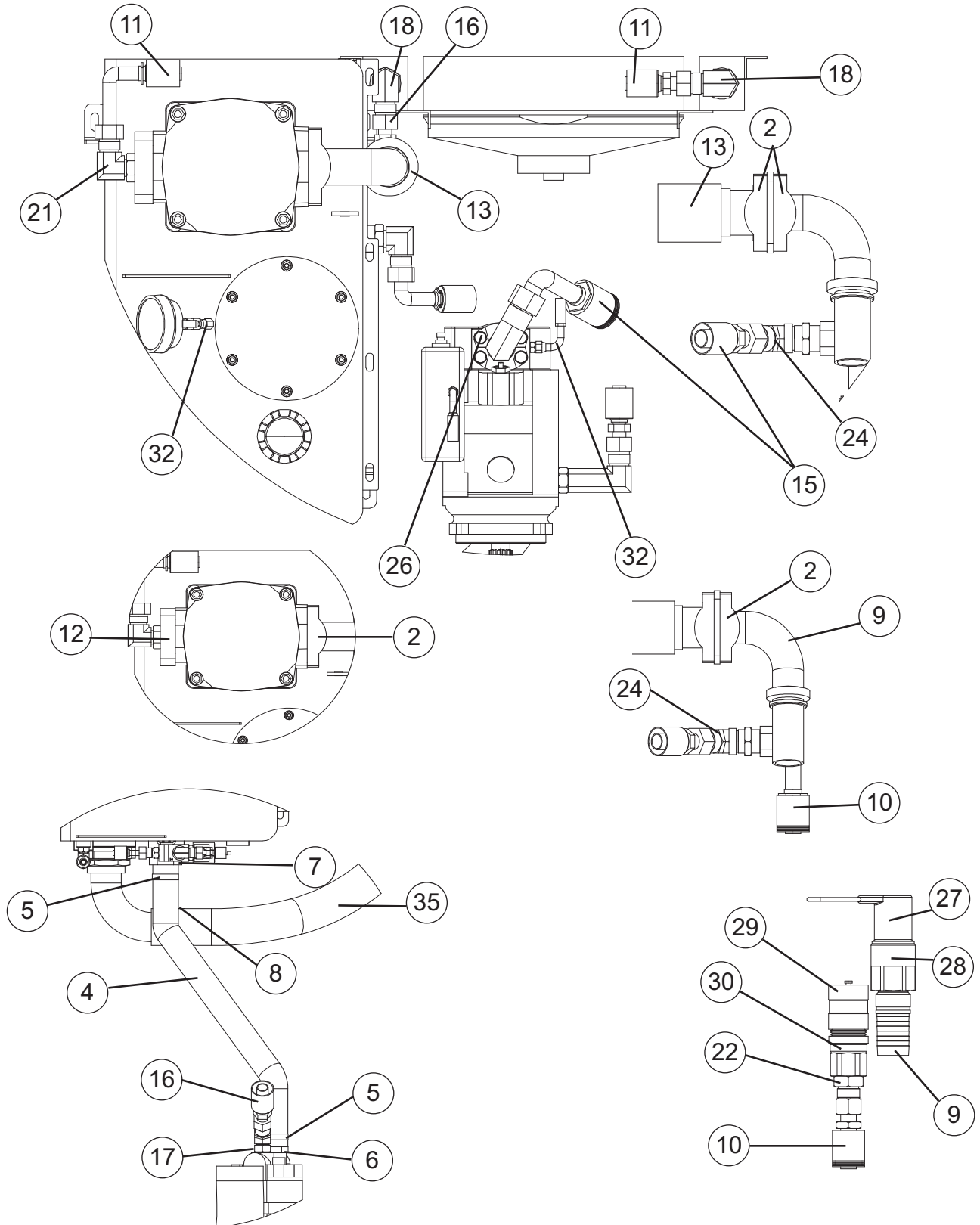
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HYDRAULIC POWERPACK PP70 SERIES

PARTS LIST

Number	Part Number	Description	Quantity	Serial Number	Remarks
2	296276404	FLANGE KIT, 2.5" CODE 61	3		
4	296304098	HOSE, 1.25 SUCTION	1		
5	248849001	CLAMP, T-BOLT 1.63	2		
6	296304097	ADAPTER, 16MB X 1.25 BARB	1		
7	296274796	ADAPTER, 20MB X 1.25 BARB	1		
8	296276369	CLAMP, T-BOLT 2.5" OD	2		
9	296260884	HOSE, FILTER RETURN	1		
10	296304183	HOSE, 16FO-16FO90 X 480 W/SLEEVE	1		
11	296304182	HOSE, 12FO-12FO90L X 47	1		
12	296293523	O-RING 228	1		
13	296304059	HOSE, 40FL-40FL 90° X 50"	1		
15	296304060	HOSE, 16FO-16FO 90 X 21	1		
16	296304177	HOSE, 12FO-10FO X 45 W/SLEEVE	1		
17	72427001	ELBOW, 10MO X 10MB 45°	1		
18	72439001	ELBOW, 12MO X 16MB 90°	2		
21	72419001	ELBOW, 12MO X 12MB 90°	2		
22	292594001	ADAPTER, 16MO X 20MB	1		
24	400006008	ELBOW, 16MO 45° BH	1		
26	296276402	FLANGE KIT, SPLIT 1" CODE 62	1		
27	296260889	CAP, MALE COUPLER 1.5"	1		
28	296260886	NIPPLE, MALE 1.5"	1		
29	296287227	CAP, MALE	1		
30	296304069	COUPLER, MALE 1-1/4" ORB	1		
32	296285392	HOSE, GAUGE	1		
35	296339086	HOSE, PUMP SUCTION	1		

HYDRAULIC POWERPACK

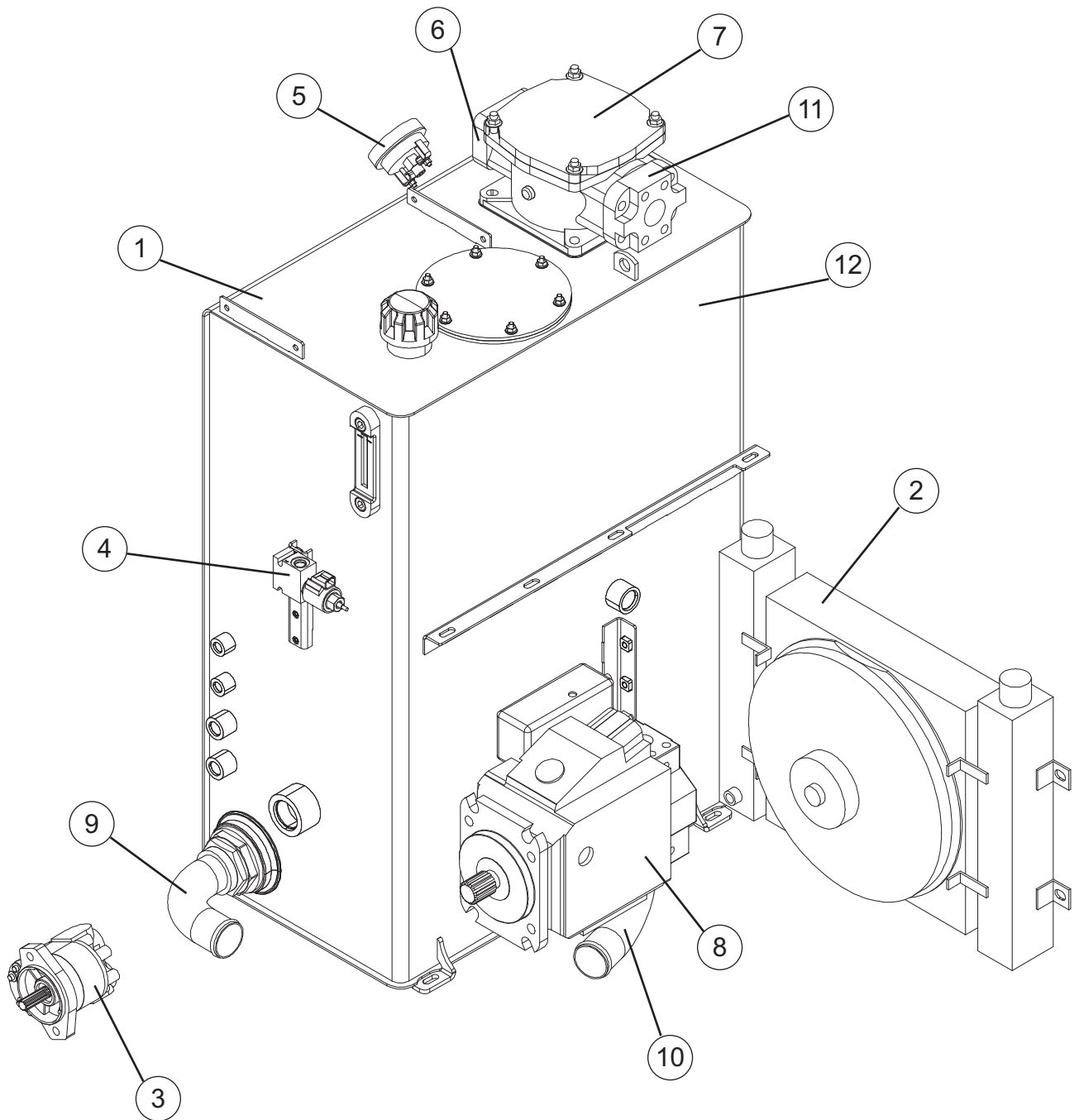
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EXPLODED VIEW

PP70-M HYDRAULIC ASSEMBLY (1 OF 3)



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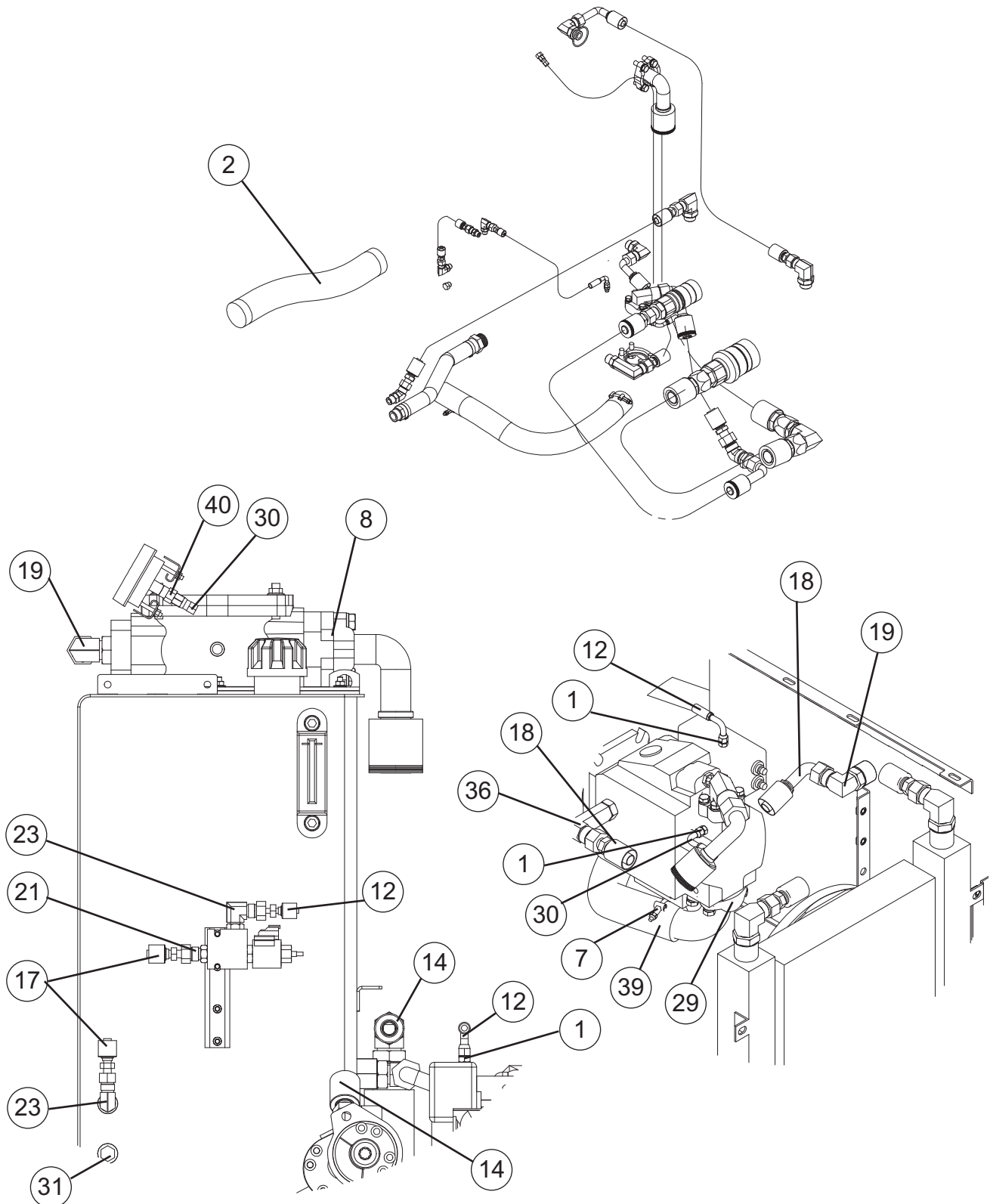
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EXPLODED VIEW

PP70-M HYDRAULIC ASSEMBLY (2 OF 3)

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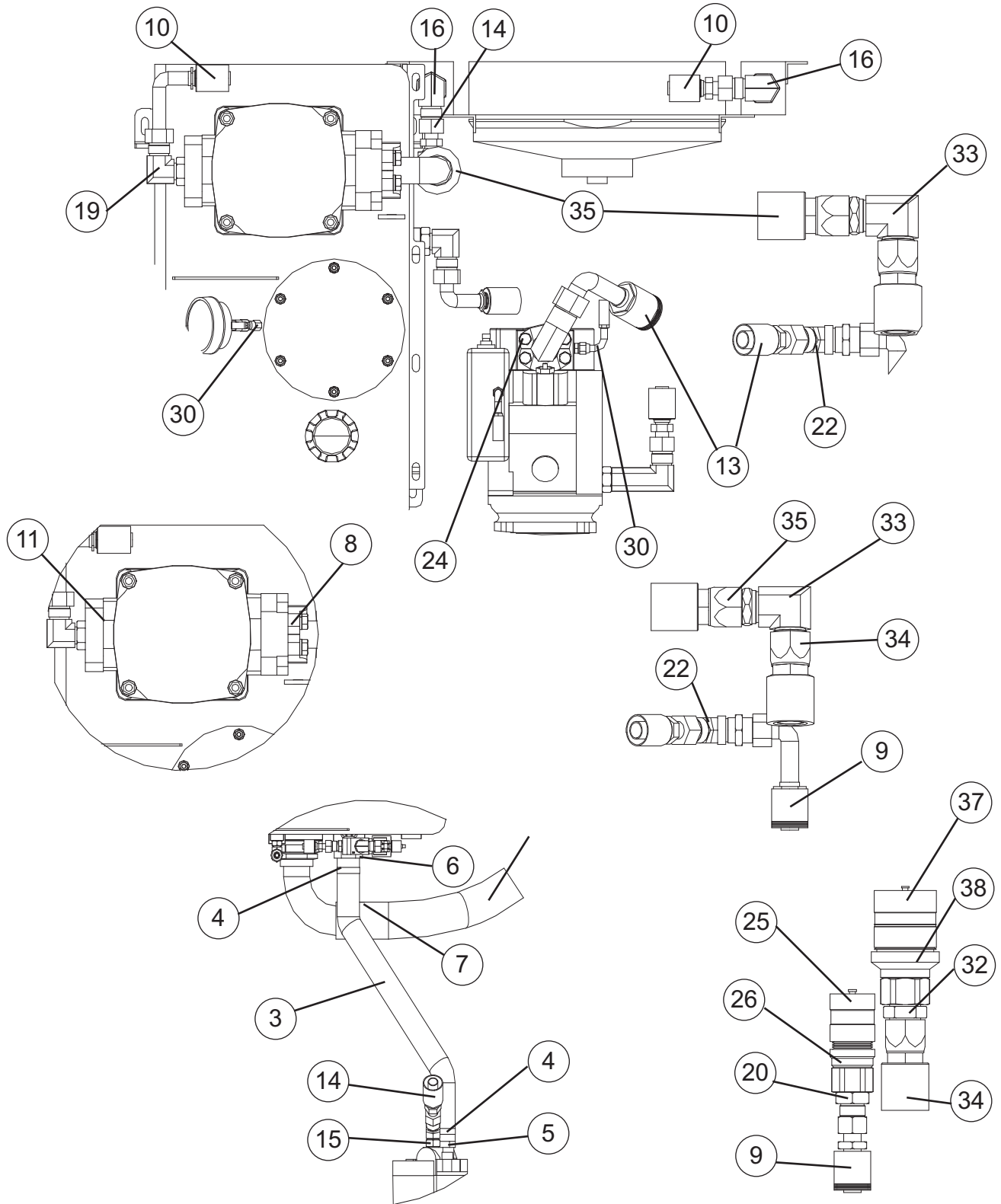
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EXPLODED VIEW

PP70-M HYDRAULIC ASSEMBLY (3 OF 3)



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PARTS LIST

Number	Part Number	Description	Quantity	Serial Number	Remarks
3	296304098	HOSE, 1.25 SUCTION	1		
4	248849001	CLAMP, T-BOLT 1.63	2		
5	296304097	ADAPTER, 16MB X 1.25 BARB	1		
6	296274796	ADAPTER, 20MB X 1.25 BARB	1		
7	296276369	CLAMP, T-BOLT 2.5" OD	2		
8	296285431	FLANGE KIT, 1.5" CODE 61	1		
9	296304183	HOSE, 16FO-16FO90 X 480 W/SLEEVE	1		
10	196304182	HOSE, 12FO-12FO90L X 47	1		
11	296293523	O-RING 228	1		
13	296304060	HOSE, 16FO-16FO90 X 21	1		
14	296304177	HOSE, 12FO-10FO X 45 W/SLEEVE	1		
15	72427001	ELBOW, 10MO X 10MB 45°	1		
16	72439001	ELBOW, 12MO X 16MB 90°	2		
19	72419001	ELBOW, 12MO X 12MB 90°	1		
20	292594001	ADAPTER, 16MO X 20MB	2		
22	400006008	ELBOW, 16MO 45° BH	1		
24	296276402	FLANGE KIT, SPLIT 1" CODE 62	1		
25	296287227	CAP, MALE	1		
26	296304069	COUPLER, MALE 1-1/4" ORB	1		
30	296285392	HOSE, GAUGE	1		
32	600067001	ADAPTER, 24MJ X 24MB	1		
33	296339065	ELBOW, 24MJ X 24MJ 90° BH	1		
34	296304185	HOSE, 24FJ-24FJ X 480	1		
35	296304184	HOSE, 24FL90-24FJ X 50"	1		
37	296304075	CAP, MALE	1		
38	296304076	COUPLER, MALE 1-1/2" ORB	1		
39	296339086	HOSE, PUMP SUCTION	1		

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This exploded view diagram illustrates the assembly of a generator set. The components are numbered as follows:

- 1**: Mounting bracket for the generator.
- 2**: Mounting bracket for the generator.
- 3**: Mounting bracket for the generator.
- 4**: Mounting bracket for the generator.
- 5**: Mounting bracket for the generator.
- 6**: Mounting bracket for the generator.
- 7**: Mounting bracket for the generator.
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- 21**: Mounting bracket for the generator.
- 22**: Mounting bracket for the generator.
- 23**: Mounting bracket for the generator.
- 24**: Mounting bracket for the generator.
- 25**: Mounting bracket for the generator.

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HYDRAULIC POWERPACK PP70 SERIES

PARTS LIST

Number	Part Number	Description	Quantity	Serial Number	Remarks
2	296276414	MOUNT, ENGINE	4		
3	296304122	MUFFLER, 2.5" COWL	1		
4	296304119	FLEX PIPE WELDMENT	1		
5	296304120	ELBOW, EXHAUST - 2.5"	1		
6	296260388	TANK, 25 GALLON FUEL	1		
7	225681001	CAP, FUEL	1		
8	296339069	BOX, LITERATURE	1		
11	1578001	CLAMP, HOSE 1/4"	8		
14	296279210	BULB, FUEL PRIMER	1		
15	296274907	HOSE, FUEL - 3/16"	1		
16	296271971	HOSE, FUEL - 5/16"	1		
18	296304114	SLING, TANK	1		
19	296304113	CLAMP, 2.5" EXHAUST	3		
20	296304112	CLAMP, 1" VINYL	1		
21	296271765	CLAMP, 1"	1		
22	296271770	CLAMP, 2"	1		
24	506046005	WASHER, 5mm X 10mm DIN 125	1		
25	296304220	PIPE, MUFFLER OUTLET	1		

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This technical drawing is an exploded view of a mechanical assembly, likely a pump or motor unit. The components are numbered as follows:

- 1**: The main housing or base plate.
- 2**: A small rectangular component, possibly a filter or seal, located near the top left.
- 3**: A small rectangular component, possibly a filter or seal, located near the top right.
- 4**: A small rectangular component, possibly a filter or seal, located near the top center.
- 5**: A small rectangular component, possibly a filter or seal, located near the top right.
- 6**: A small rectangular component, possibly a filter or seal, located near the top right.
- 7**: A small rectangular component, possibly a filter or seal, located near the top right.
- 8**: A small rectangular component, possibly a filter or seal, located near the top right.
- 9**: A small rectangular component, possibly a filter or seal, located near the top right.
- 10**: A large, rectangular component with a flange, likely a motor or pump housing.
- 11**: A small rectangular component, possibly a filter or seal, located near the top right.
- 12**: A small rectangular component, possibly a filter or seal, located near the top right.
- 13**: A small rectangular component, possibly a filter or seal, located near the top right.
- 14**: A small rectangular component, possibly a filter or seal, located near the top right.
- 15**: A small rectangular component, possibly a filter or seal, located near the top right.
- 16**: A small rectangular component, possibly a filter or seal, located near the top right.
- 17**: A small rectangular component, possibly a filter or seal, located near the top right.

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HYDRAULIC POWERPACK

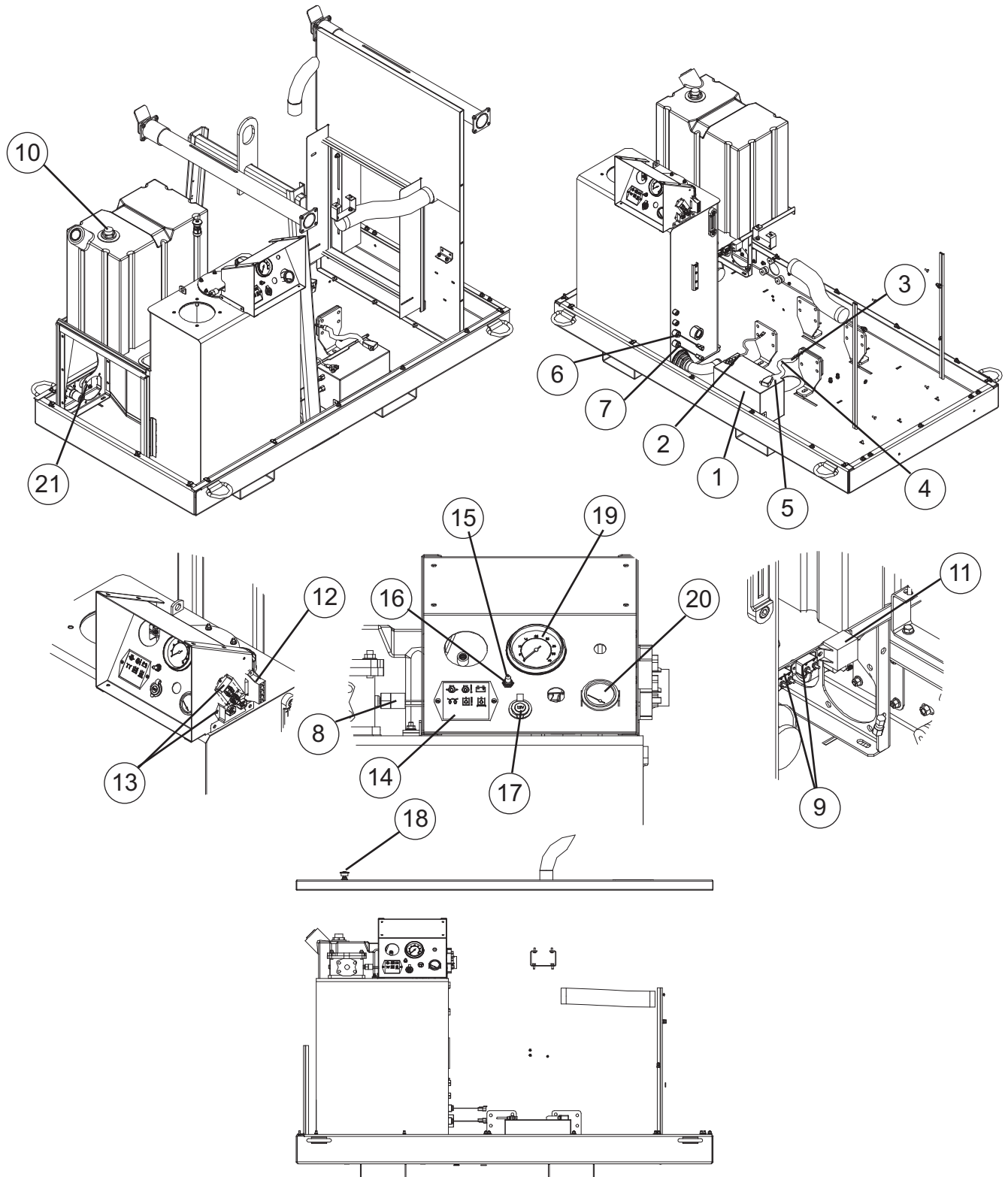
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HYDRAULIC POWERPACK PP70 SERIES

EXPLODED VIEW

PP70 ELECTRICAL ASSEMBLY - ALL



HYDRAULIC POWERPACK PP70 SERIES

PARTS LIST

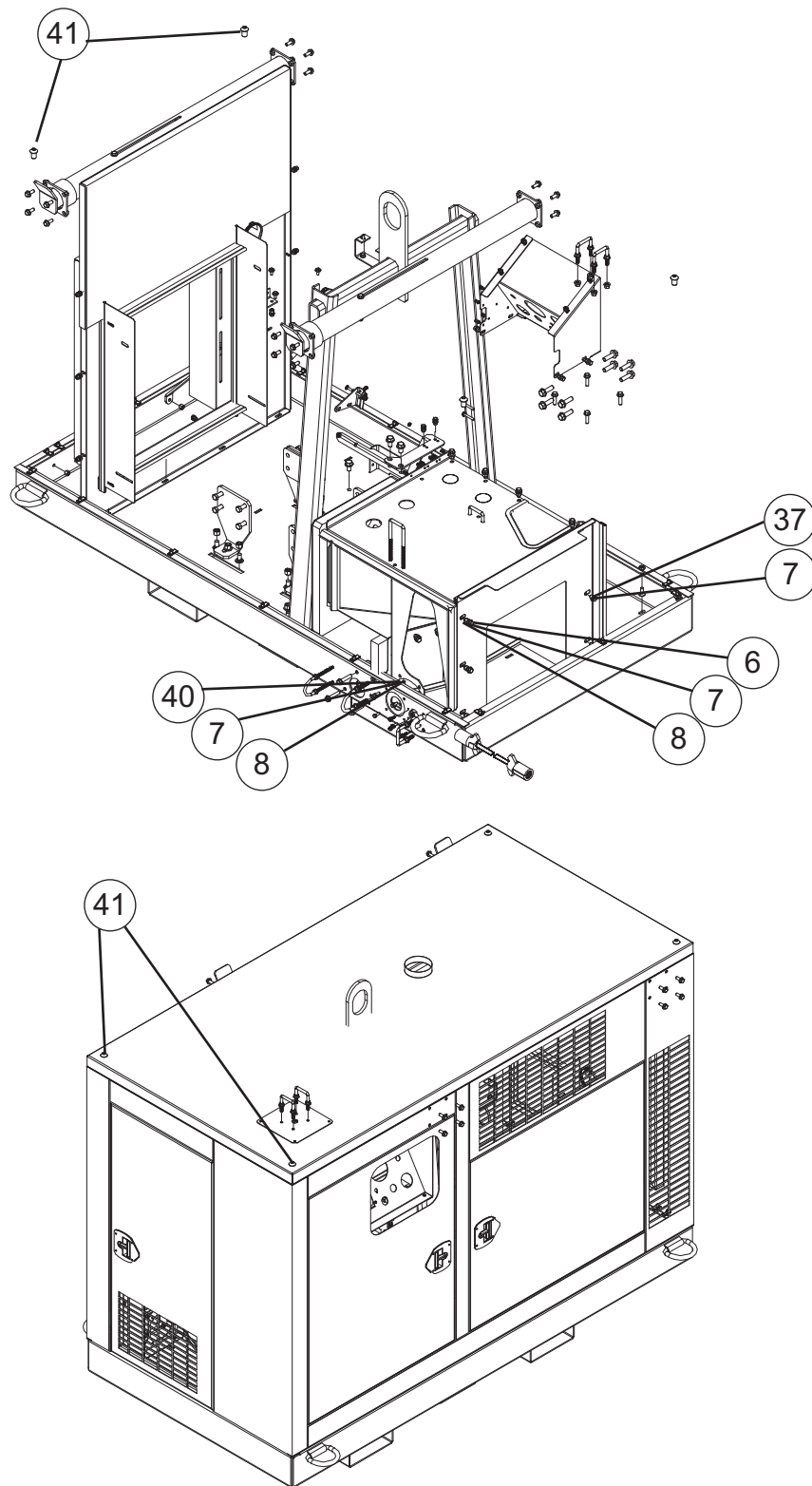
Number	Part Number	Description	Quantity	Serial Number	Remarks
1	296276416	BATTERY	1		
2	296276374	BATTERY CABLE 0ga NEGATIVE	1		
3	296276373	BATTERY CABLE 0ga POSITIVE	1		
4	296278468	CORRUGATED LOOM 47-1/2"	1		
5	296271801	BOOT, STRAIGHT CLAMP	1		
6	279829001	TEMPERATURE SWITCH 210° F	1		
7	296304130	TEMPERATURE SWITCH - 100°F	1		
8	296271768	SWITCH, PRESSURE	1		
9	296273069	BREAKER, 30 AMP CIRCUIT	2		
10	292038001	SENDER, FUEL LEVEL	1		
11	296304128	RELAY, 75 AMP	1		
12	296304129	HARNESS, PP70/80 WIRE	1		
13	296271774	MODULE, DUAL RELAY	2		
14	296271773	MODULE, WARNING LIGHT	1		
15	5537001	BOOT, TOGGLE	1		
16	67292001	SWITCH, TOGGLE SPST	1		
17	296339093	RECEPTACLE, 12VDC	1		
18	296271772	SWITCH, EMERGENCY STOP	1		
19	201785001	TACH/HOUR METER	1		
20	180006555	FUEL GAUGE	1		
21	296304127	SOCKET, RV 7-WAY	1		
22	296304126	CORD, ELECTRICAL CONTROL	1		Not Shown

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HYDRAULIC POWERPACK PP70 SERIES

EXPLODED VIEW

PP70 HARDWARE - ALL (1 OF 5)



HYDRAULIC POWERPACK

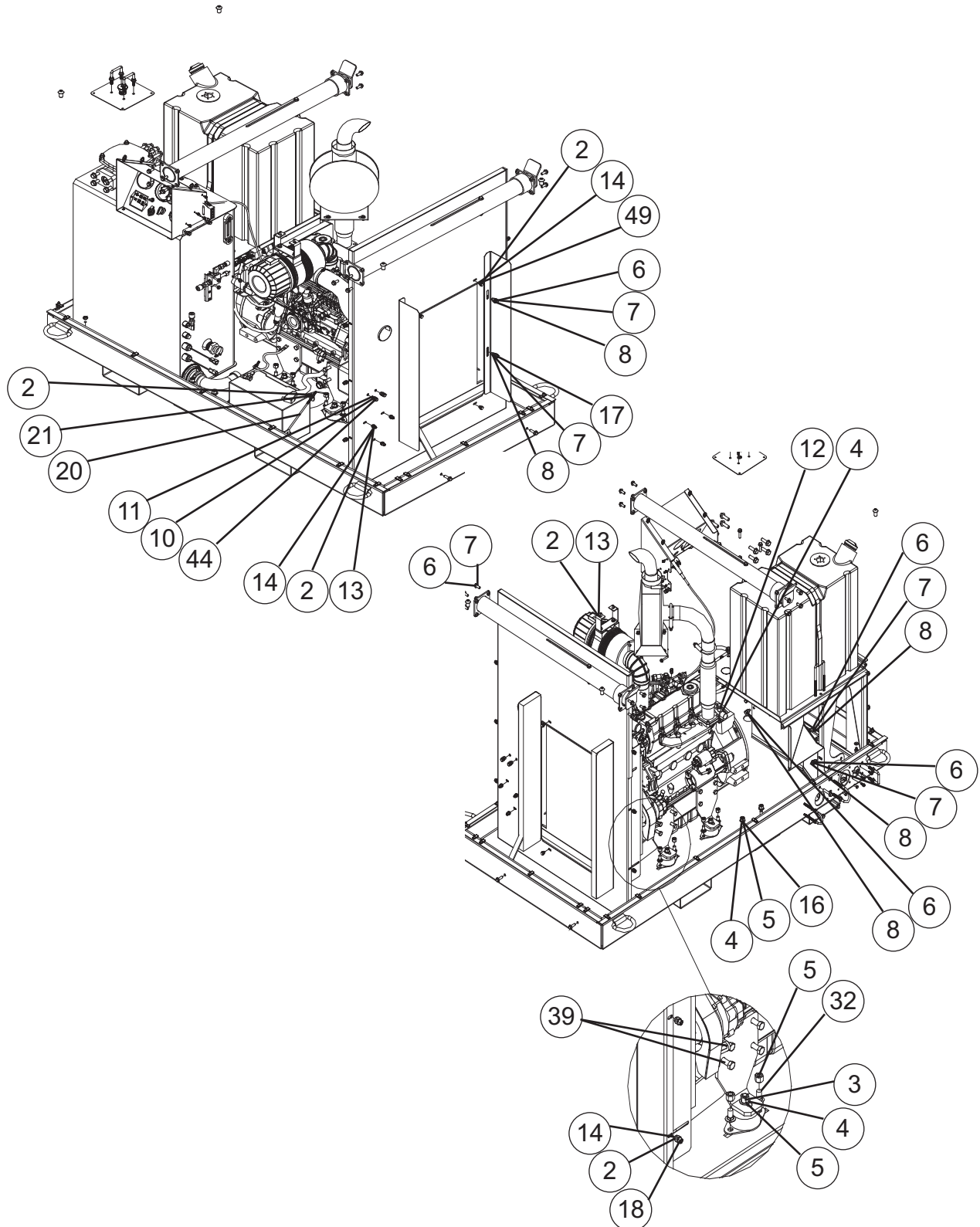
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HYDRAULIC POWERPACK PP70 SERIES

EXPLODED VIEW

PP70 HARDWARE - ALL (2 OF 5)



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HYDRAULIC POWERPACK PP70 SERIES

PARTS LIST

Number	Part Number	Description	Quantity	Serial Number	Remarks
2	296271826	WASHER, 1/4" - HARD	48		
3	75381014	SCREW, 1/2-13 X 1.5 HHC - GR8	8		
4	296271785	WASHER, 1/2" - HARD	27		
5	423001	NUT, 1/2-13 TOP LOCK	16		
6	16114010	SCREW, 3/8-16 X 1.0 HHC - GR8	33		
7	296271869	WASHER, 3/8" - HARD	70		
8	416001	NUT, 3/8-16 TOP LOCK	34		
10	296271964	WASHER, 5/16" - HARD	16		
11	409001	NUT, 5/16-18 TOP LOCK	10		
12	235729001	SCREW, 1/2-13 X 1.0 HHC - GR8	3		
13	235734001	SCREW, 1/4-20 X .75 HHC - GR8	15		
14	403001	NUT, 1/4-20 TOP LOCK	29		
16	235718001	SCREW, 1/2-13 X 2.0 HHC - GR8	4		
17	235736001	SCREW, 3/8-16 X 1.25 HHC - GR8	4		
18	235733001	SCREW, 1/4-20 X .50 HHC - GR8	6		
20	248848001	J-BOLT, 1/4-20 X 9.0	2		
21	235732001	NUT, 1/4-20 HEX - GR8	6		
32	377010	BOLT, 1/2-13 X 1 CARRIAGE	8		
39	296276454	SCREW, M12-1.25 X 30mm HHC	8		
49	296271761	BOLT, 1/4-20 X .75 CARRIAGE	8		

HYDRAULIC POWERPACK

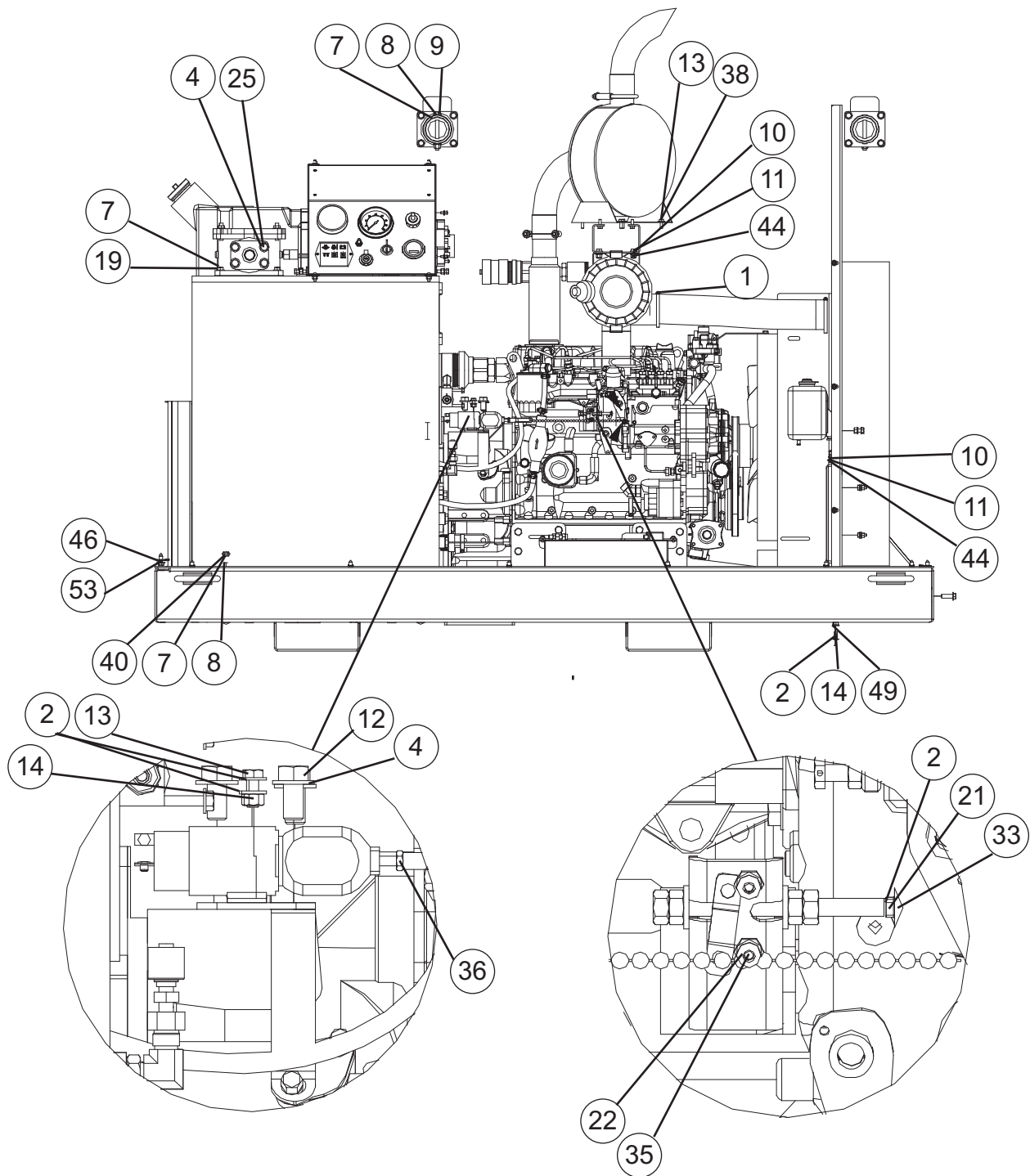
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HYDRAULIC POWERPACK PP70 SERIES

EXPLODED VIEW

PP70 HARDWARE - ALL (3 OF 5)



HYDRAULIC POWERPACK PP70 SERIES

PARTS LIST

Number	Part Number	Description	Quantity	Serial Number	Remarks
1	293922001	HOSE CLAMP #48	2		
2	296271826	WASHER, 1/4" - HARD	48		
4	296271785	WASHER, 1/2" - HARD	27		
7	296271869	WASHER, 3/8" - HARD	70		
8	416001	NUT, 3/8-16 TOP LOCK	34		
9	250583001	SCREW, 3/8-16 X 3.75 HHC - GR8	2		
10	296271964	WASHER, 5/16" - HARD	16		
11	409001	NUT, 5/16-18 TOP LOCK	10		
12	235729001	SCREW, 1/2-13 X 1.0 HHC - GR8	3		
13	235734001	SCREW, 1/4-20 X .75 HHC - GR8	15		
14	403001	NUT, 1/4-20 TOP LOCK	29		
19	16114014	SCREW, 3/8-16 X 1.5 HHC - GR8	4		
21	235732001	NUT, 1/4-20 HEX - GR8	6		
22	296271777	NUT, #10-32 TOP LOCK	16		
25	296285399	SCREW, 1/2-13 X 1.75 HHC - GR8	8		
33	373034	BOLT, 1/4-20 X 3.5 CARRIAGE	1		
35	296339087	SCREW, #10-32 X .625 BHSC	16		
36	296339091	NUT, 1/4-28 HEX JAM	1		
38	296339090	WASHER, 1/4" - HARD USS	4		
40	375010	BOLT, 3/8-16 X 1 CARRIAGE	6		
44	235742001	SCREW, 5/16-18 X .75 HHC - GR8	6		
46	296304170	NUT, TAPPED-HOLE U-STYLE	20		
49	296271761	BOLT, 1/4-20 X .75 CARRIAGE	8		
53	296304224	BOLT, 5/16-18 X 1 SEMS BODY	20		

HYDRAULIC POWERPACK

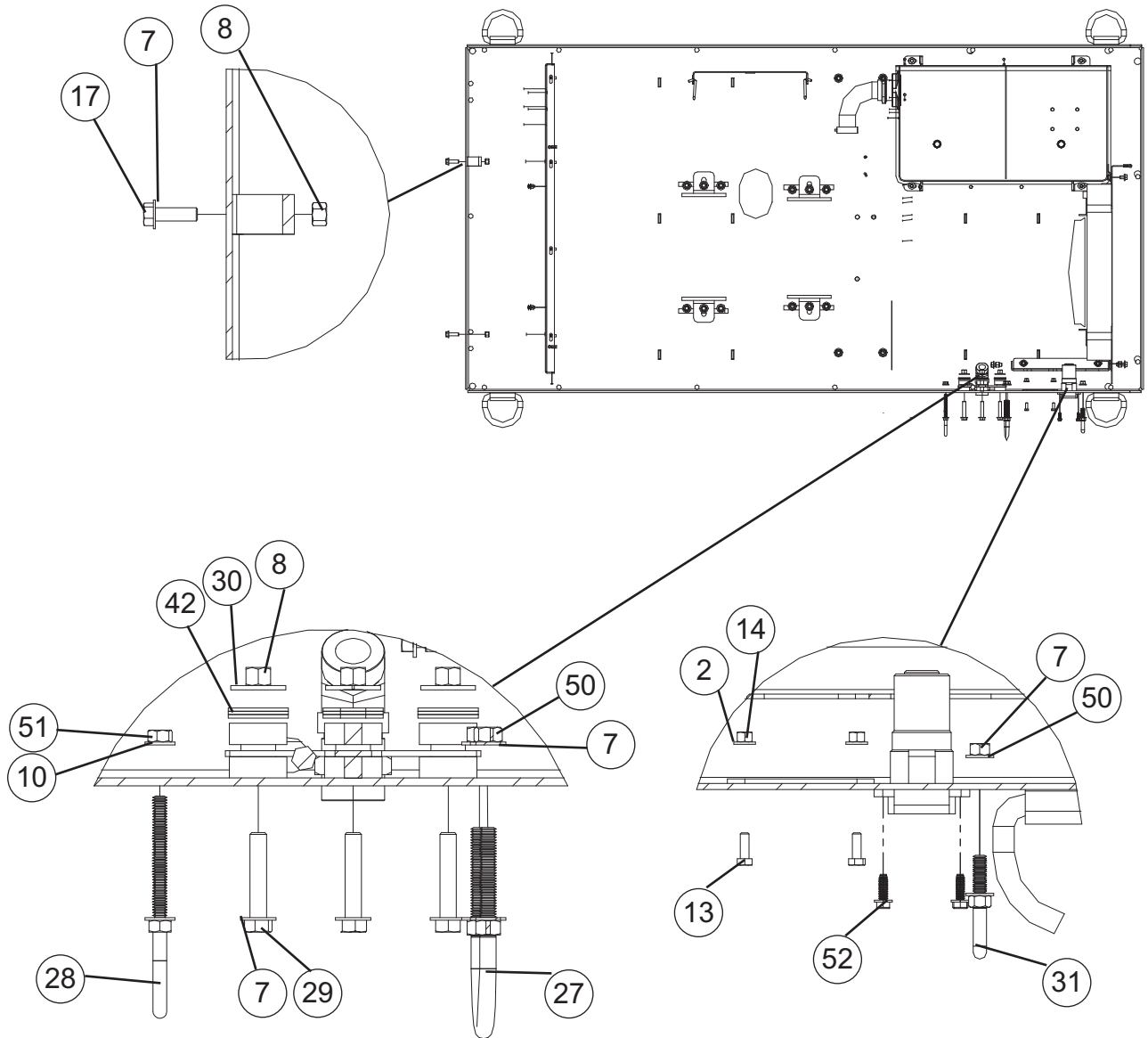
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HYDRAULIC POWERPACK PP70 SERIES

EXPLODED VIEW

PP70 HARDWARE - ALL (4 OF 5)



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HYDRAULIC POWERPACK

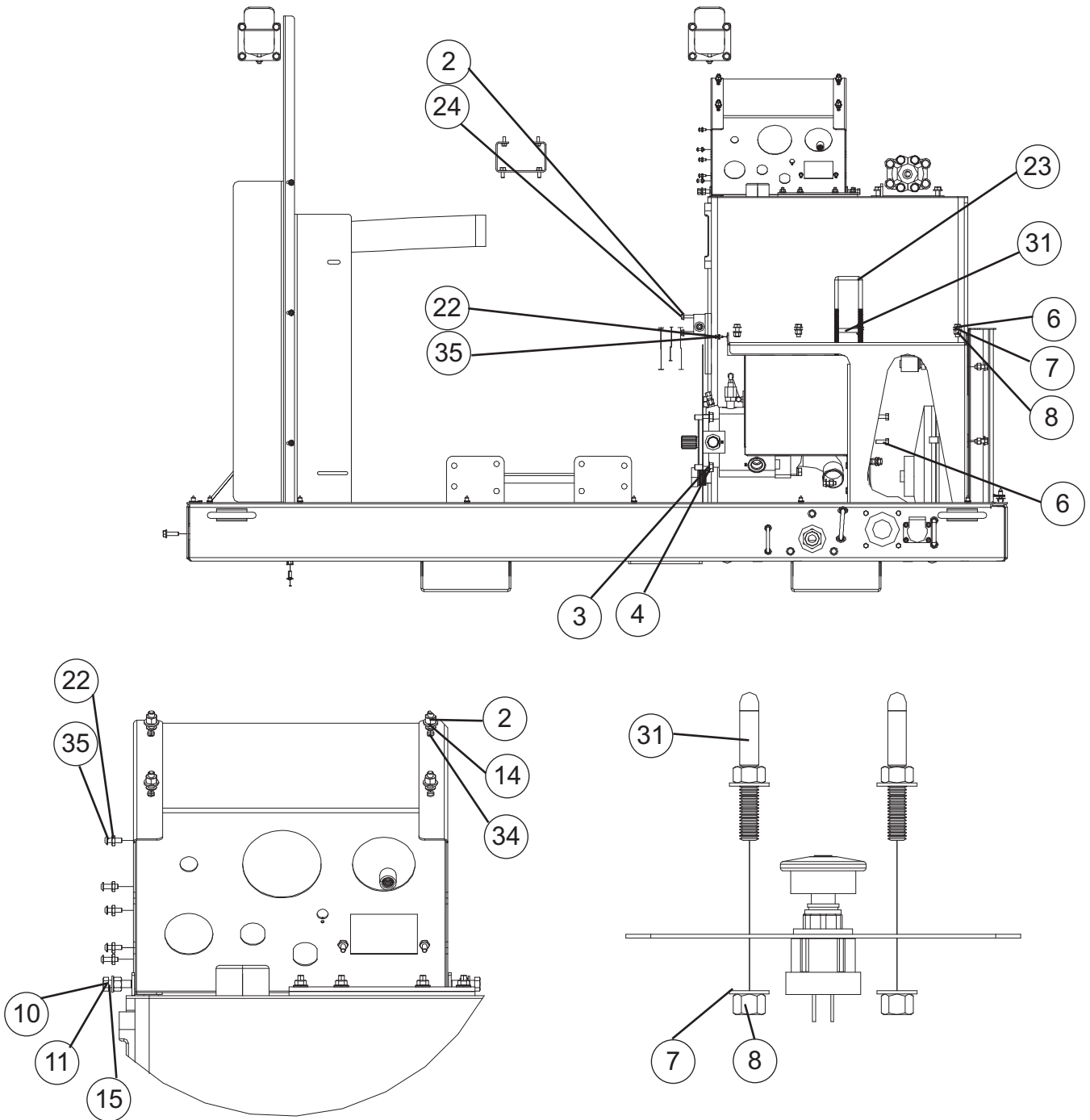
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HYDRAULIC POWERPACK PP70 SERIES

EXPLODED VIEW

PP70 HARDWARE - ALL (5 OF 5)



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REVISION HISTORY

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