



PARTS MANUAL

5000 Jacking System

Pump Unit S/N: PU5050-27 & After

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SERVICE • RELIABILITY • INNOVATION

Introduction

This parts manual contains assembly illustrations of the Akkerman 5000 Jacking System. The 5000 Jacking System includes the 5000 Pump Unit, Auxiliary Pump Unit, Skids, and Yokes. The illustrations in this manual are intended to show typical construction of various parts. In some instances, the details of parts illustrated may not exactly represent their actual appearance, but will help to identify parts performing the same functions. Additional copies of this manual may be purchased from the Akkerman Aftermarket Support Department, or downloaded from the Akkerman web site at www.akkerman.com.

The 5000 Pump Unit cylinders extend to advance the TBM and pipe along the skid base against the thrust yoke. The yoke provides a 360 degree surface to minimize point pressure on jacking pipes and transfer thrust from the pump unit to the pipe. The skid serves as the foundation for the pump unit, yoke, haul unit, TBM and pipe, and transfers thrust to the reaction block.

LOCATING PARTS

This parts manual is organized into 13 sections to help you locate parts information quickly. The first page of each section lists the assemblies within the section.

An Alphabetical Index, Section 12, is provided to help you find the page number of a specific assembly. If a part number is known, the Numerical Index, Section 13, can also be utilized to find the page number of the assembly.

USE GENUINE AKKERMAN PARTS

The use of parts other than genuine Akkerman parts, could affect the efficient performance of the Jacking System. ALWAYS use genuine Akkerman parts.

PARTS ORDERING

To order fast, accurate, and reliable parts service, call (800) 533-0386, (507) 567-2261, or fax (507) 567-2605, and provide the following information.

1. Model Number
2. Serial Number
3. Part Number, Description, and Quantity
4. Shipping Preference

MEASUREMENTS

The unit of measure in this manual is in inches unless indicated otherwise.

HARDWARE SPECIFICATION

All Akkerman products are assembled with SAE Grade 8 bolts, nuts, and washers. ALWAYS use matched fastener hardware when replacing or repairing the unit.

If you find any errors in this manual or have suggestions for improvement, please let us know. Email your comments via the Akkerman web site (Contact Us web page), or mail your suggestions to: Akkerman Inc., ATTN: Technical Publications, 58256 266th Street, Brownsdale, MN, 55918.

Akkerman Inc. reserves the right to improve its product without notice or obligation.



5000 Jacking System With 720 TBM

NOTES



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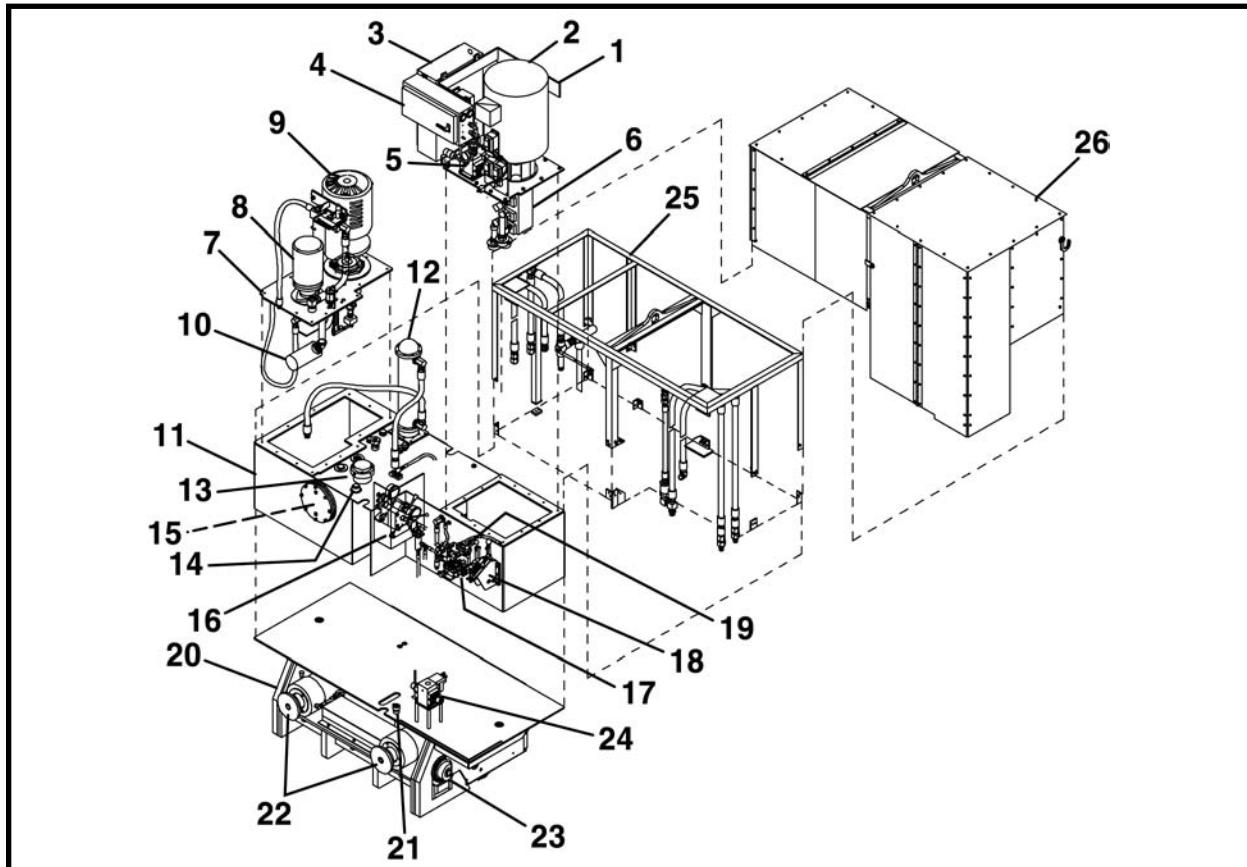
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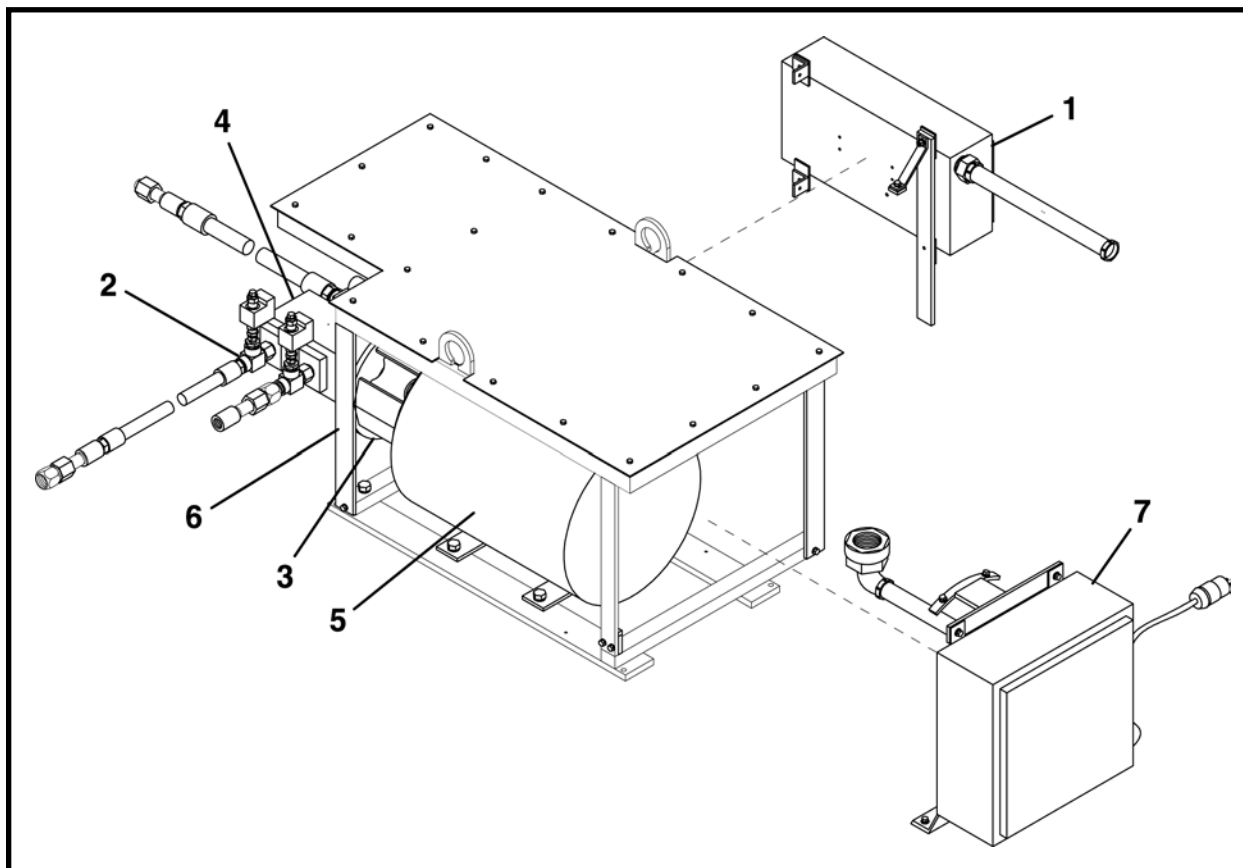
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TERMINOLOGY - 5000 PUMP UNIT

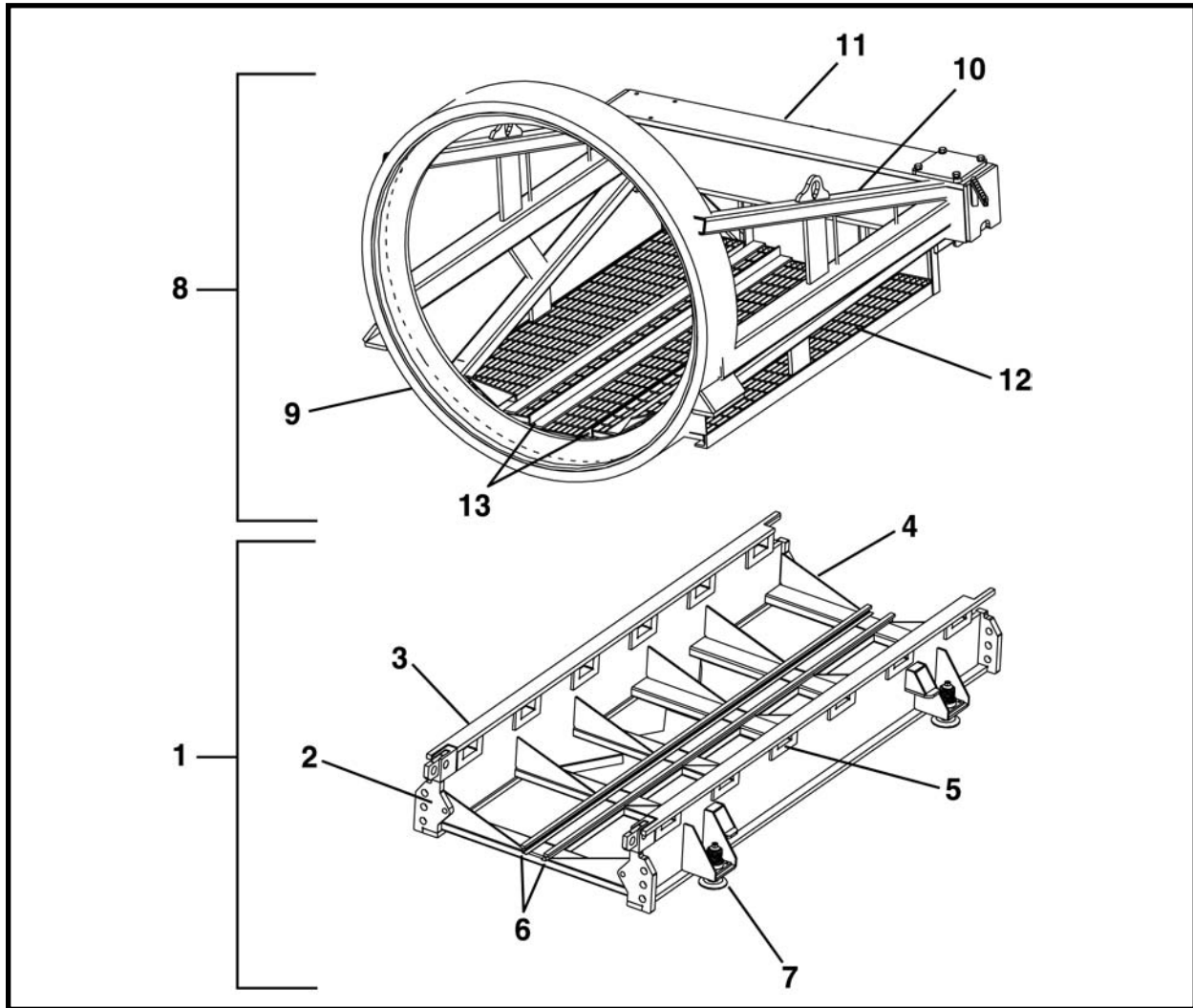
ITEM	QTY	PART NO.	DESCRIPTION
0	REF	F05050F00	5000 PUMP UNIT ASSEMBLY
1	REF	016283A	LOW PRESSURE SUB-ASSEMBLY (includes items 2-6)
2	REF	P0310-163	MOTOR, 100 HP
3	REF	016272A	CONTROL PANEL ENCLOSURE ASSEMBLY
4	REF	016270A	DISCONNECT SWITCH ENCLOSURE ASSEMBLY
5.1	REF	002946A00	DUAL VALVE ASSEMBLY (SN PU5050-27 thru 49)
5.2	REF	002944A	DUAL VALVE ASSEMBLY (SN PU5050-50 & After)
6	REF	P0303-189	PUMP, Triple
7	REF	016282A	HIGH PRESSURE SUB-ASSEMBLY (includes items 8-10)
8	REF	P0310-599	MOTOR, 5 HP
9	REF	P0310-136	MOTOR, 50 HP
10	REF	P0309-153	STRAINER
11	REF	016273A	TANK ASSEMBLY (includes items 12-19)
12	REF	008214A00	HEAT EXCHANGER
13	REF	011940A00	RETURN FILTER ASSEMBLY (includes item 13a)
13a	REF	P0309-102	FILTER ELEMENT
14	REF	P0308-100	BREATHER/FILLER PLUG
15	REF	P0309-102	TANK RETURN FILTER ELEMENT
16.1	REF	005393A02	SHEAR VALVE ASSEMBLY (SN PU5050-27 thru 49)
16.2	REF	016315A	SHEAR VALVE ASSEMBLY (SN PU5050-50 & After)
17	REF	016259A	VALVE, Drive
18	REF	007406A01	CABLE STROKER ASSEMBLY
19	REF	016260A	VALVE, Cylinder
20	REF	016281A	BASE ASSEMBLY (includes items 21-24)
21	REF	005053A02	DOG CONTROL
22.1	REF	006165A01	DUAL RAM ASSEMBLY (SN PU5050-27 thru 49)
22.2	REF	016305A	DUAL RAM ASSEMBLY (SN PU5050-50 & After)
23	REF	005052A03	DRIVE ASSEMBLY
24.1	REF	002946A00	DUAL VALVE ASSEMBLY (SN PU5050-27 thru 49)
24.2	REF	002944A	DUAL VALVE ASSEMBLY (SN PU5050-50 & After)
25	REF	016280A	CAB FRAME
26	REF	005055A02	CAB ASSEMBLY

TERMINOLOGY - AUXILIARY PUMP UNIT



ITEM	QTY	PART NO.	DESCRIPTION
0	REF	F08020F00	AUXILIARY PUMP UNIT, 100HP
1	REF	016290A	SMALL ENCLOSURE ASSEMBLY
2	REF	007953A01	HYDRAULIC ASSEMBLY
3	REF	007954A00	MOTOR TO PUMP ASSEMBLY (includes items 4-5)
4	REF	P0303-190	GEAR PUMP
5	REF	P0310-163	MOTOR, 100 HP
6	REF	008130A00	CAB AND FRAME ASSEMBLY
7	REF	016291A	LARGE ENCLOSURE ASSEMBLY

TERMINOLOGY - SKID & YOKE



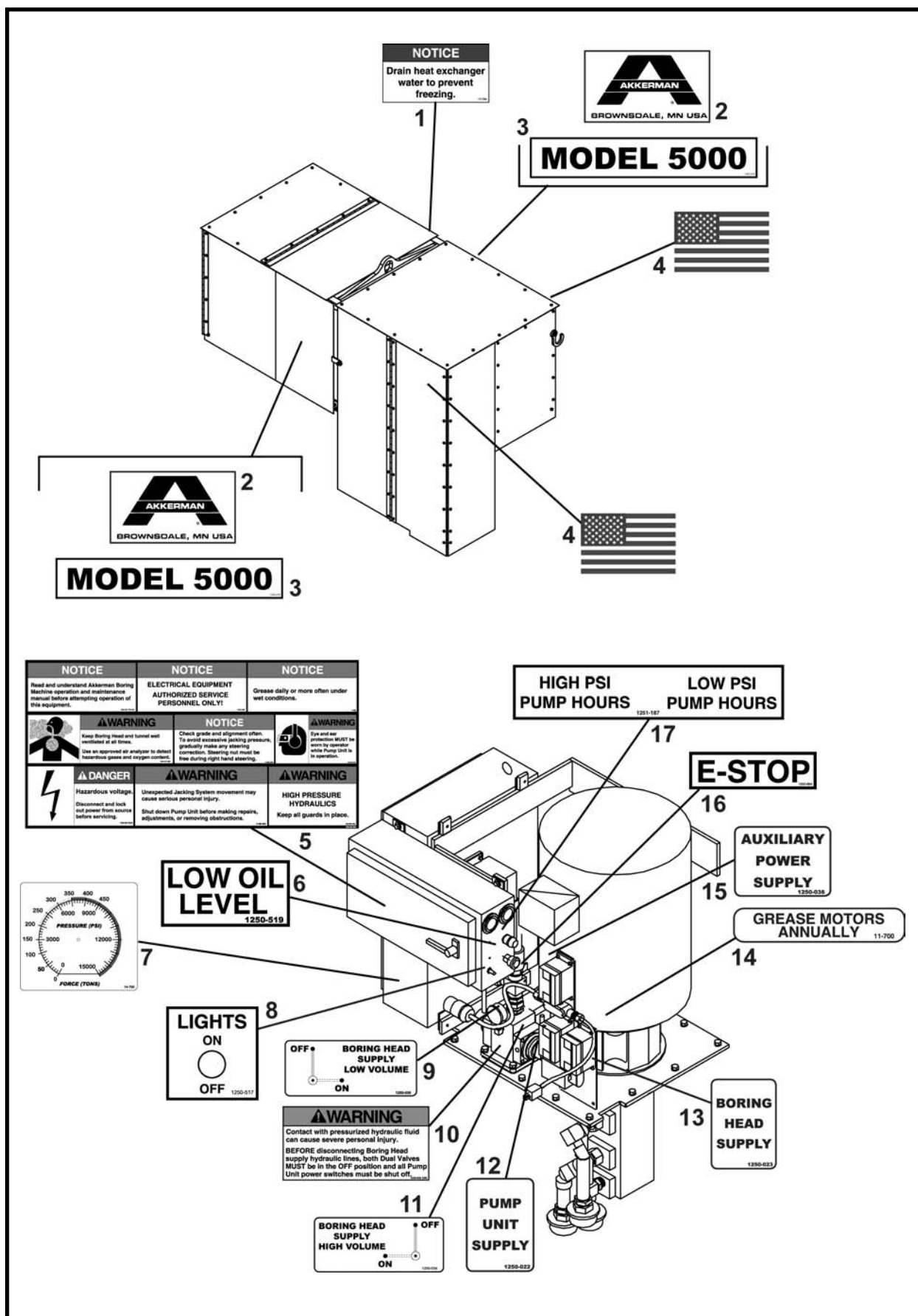
ITEM	QTY	PART NO.	DESCRIPTION
1	REF	REF	SKID
2	REF	REF	SKID BASE
3	REF	REF	SIDE SKID BASE ASSEMBLY
4	REF	REF	SKID SUPPORT
5	REF	REF	SKID POCKET
6	REF	REF	RAIL (for Yoke)
7	REF	REF	LEVELING ASSEMBLY
8	REF	REF	YOKE
9	REF	REF	YOKE RING
10	REF	REF	YOKE RING SUPPORT
11	REF	REF	DUAL RAM YOKE, Rear
12	REF	REF	FLOOR
13	REF	REF	RAIL (for Haul Unit)



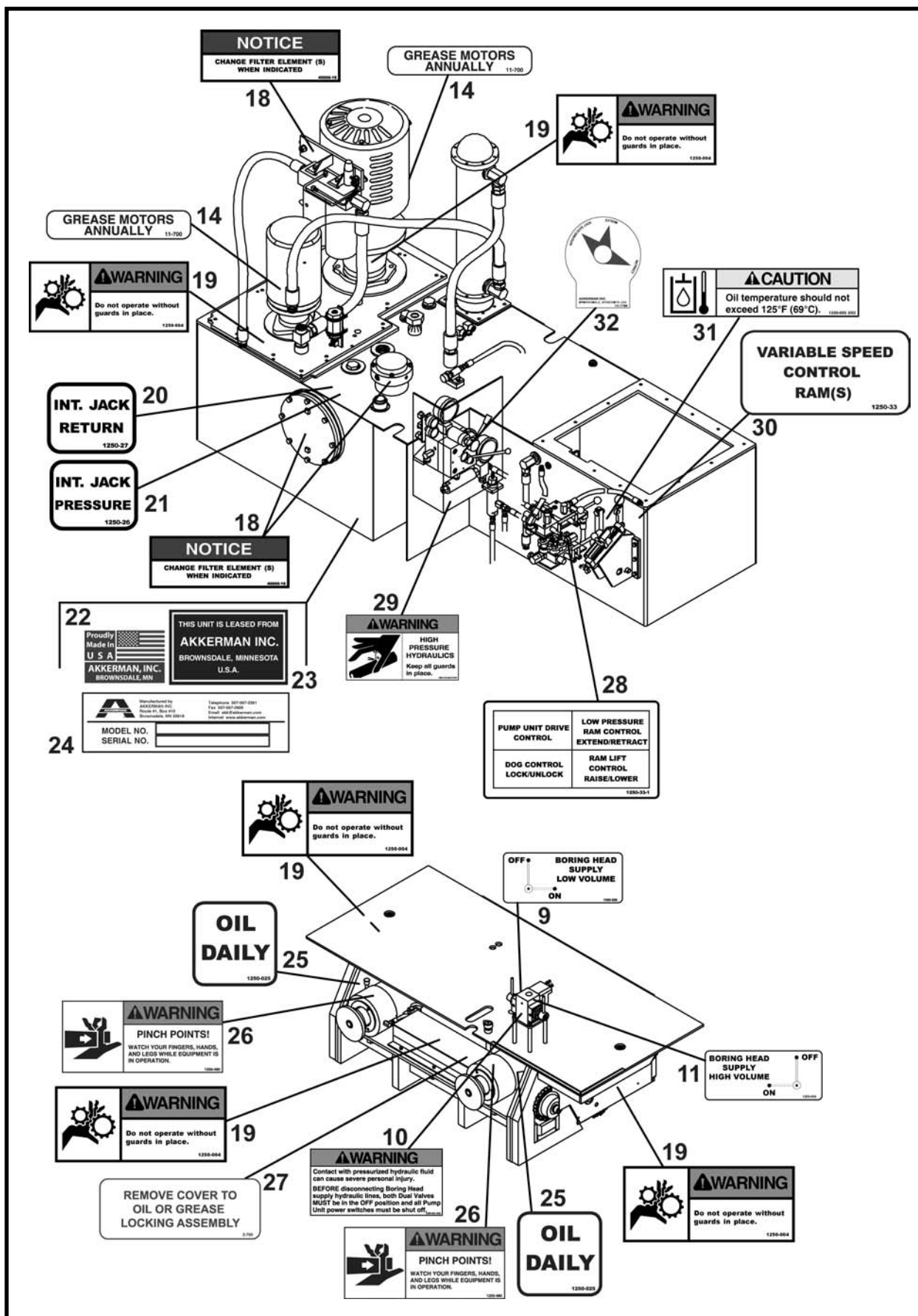
Decals

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5000 PUMP UNIT DECALS



5000 PUMP UNIT DECALS

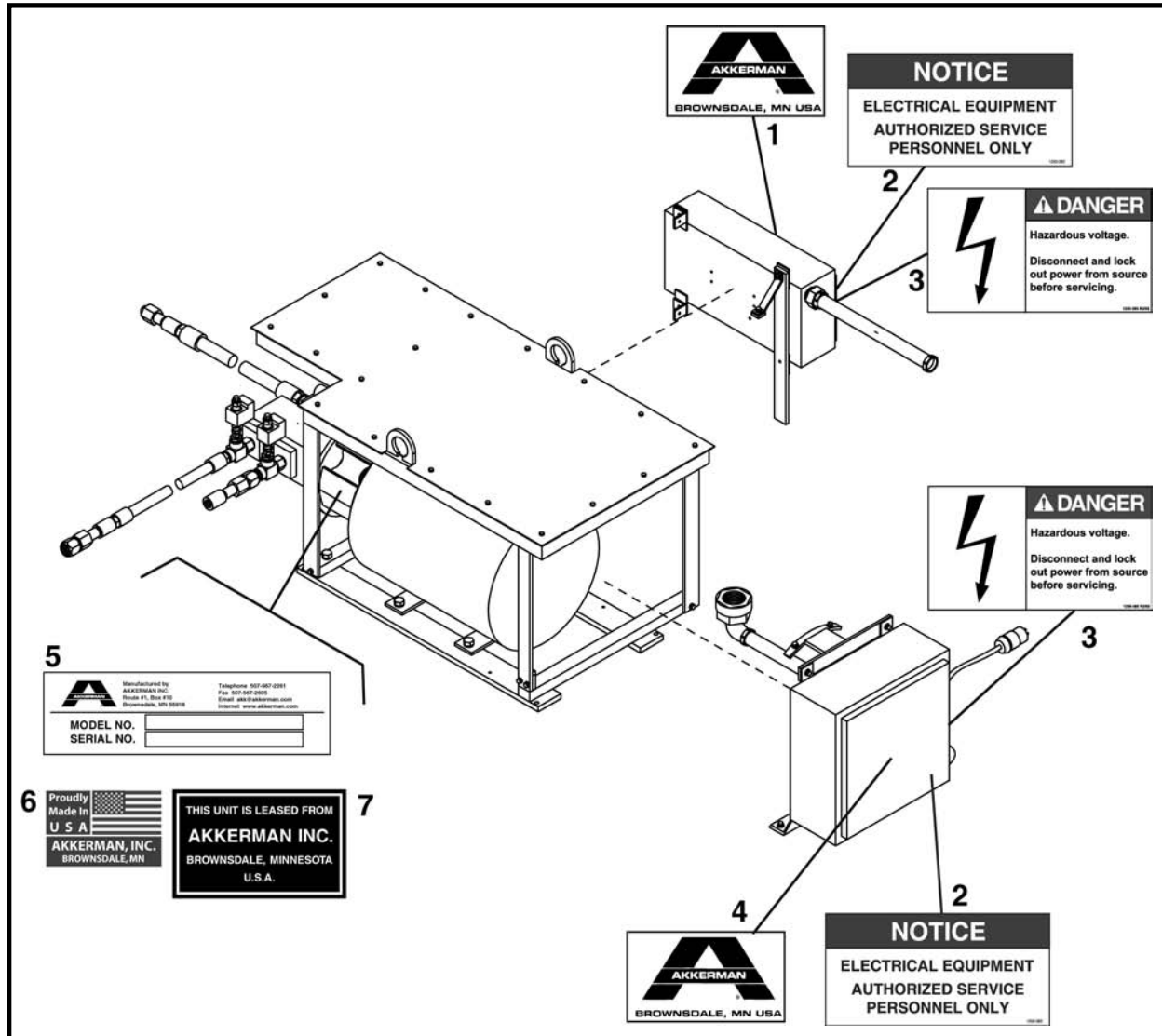


5000 PUMP UNIT DECALS

ITEM	QTY	PART NO.	DESCRIPTION
1	1	17-700	DECAL, Notice, Drain Heat Exchanger
2	2	1251-245	DECAL, Akkerman, XLarge
3	2	1250-376	DECAL, Model 5000
4	2	1250-560	DECAL, USA Flag
5	1	1250-582	DECAL, Notice, Warning, Danger
6	1	1250-519	DECAL, Low Oil Level
7	1	14-700	DECAL, Pressure PSI Force (Tons)
8	1	1250-517	DECAL, Lights
9	2	1250-035	DECAL, Boring Head Supply Low Volume
10	2	1250-032	DECAL, Warning, Dual Valve
11	2	1250-034	DECAL, Boring Head Supply High Volume
12	1	1250-022	DECAL, Power Unit Supply
13	1	1250-023	DECAL, Boring Head Supply
14	3	11-700	DECAL, Grease Motors Annually
15	1	1250-036	DECAL, Auxiliary Power Supply
16	1	1250-664	DECAL, E-Stop
17	1	1251-187	DECAL, Hourmeters High-Low PSI
18	3	40000-16	DECAL, Notice, Change Filter Element
19	5	1250-004	DECAL, Warning, Guards Must Be In Place
20	1	1250-027	DECAL, Intermediate Jack Return
21	1	1250-028	DECAL, Intermediate Jack Pressure
22	1	1250-544	DECAL, Made In USA
23*	1	1250-098	DECAL, Lease
24	1	REF	PLATE, Serial Number
25	2	1250-025	DECAL, Oil Daily
26	2	1250-480	DECAL, Warning, Pinch Point
27	1	2-700	DECAL, Remove Cover To Grease
28	1	1250-033-1	DECAL, Pump Unit Drive Control
29**	2	1250-003	DECAL, Warning, High Pressure Hydraulics
30	1	1250-033	DECAL, Variable Speed Control Rams
31	1	1250-005	DECAL, Caution, Oil Temp Not To Exceed 125
32	1	13-1700	DECAL, Intermediate Jacking, Extend-Retract

* Note: Decal used only on leased equipment.

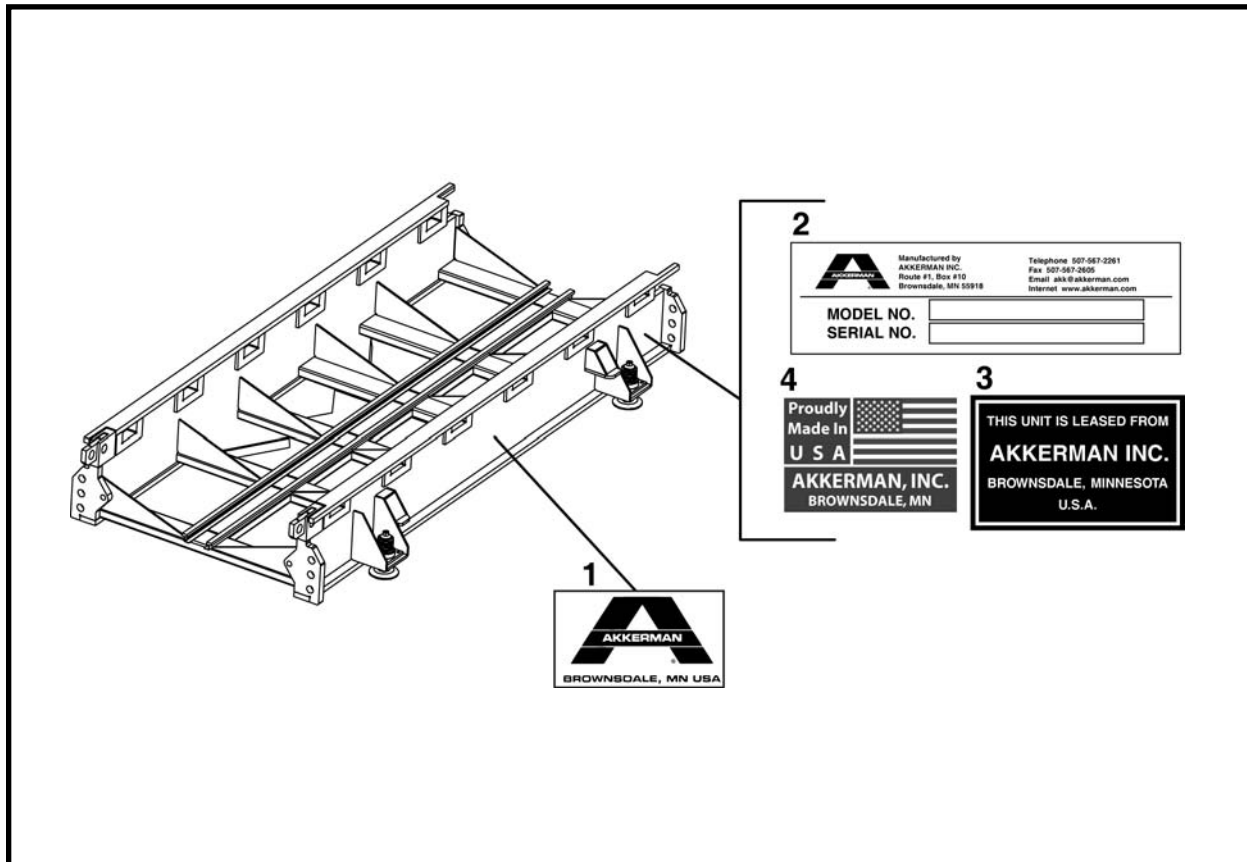
AUXILIARY PUMP UNIT DECALS, 100 HP



ITEM	QTY	PART NO.	DESCRIPTION
1	1	1251-546	DECAL, Akkerman, Large
2	2	1250-383	DECAL, Notice, Electrical Equipment
3	2	1250-385	DECAL, Danger, Hazardous Voltage
4	1	1251-545	DECAL, Akkerman, X-Large
5	1	REF	PLATE, Serial Number
6	1	1250-544	DECAL, Made in USA
7*	1	1250-098	DECAL, Lease

* Note: Decal used only on leased equipment.

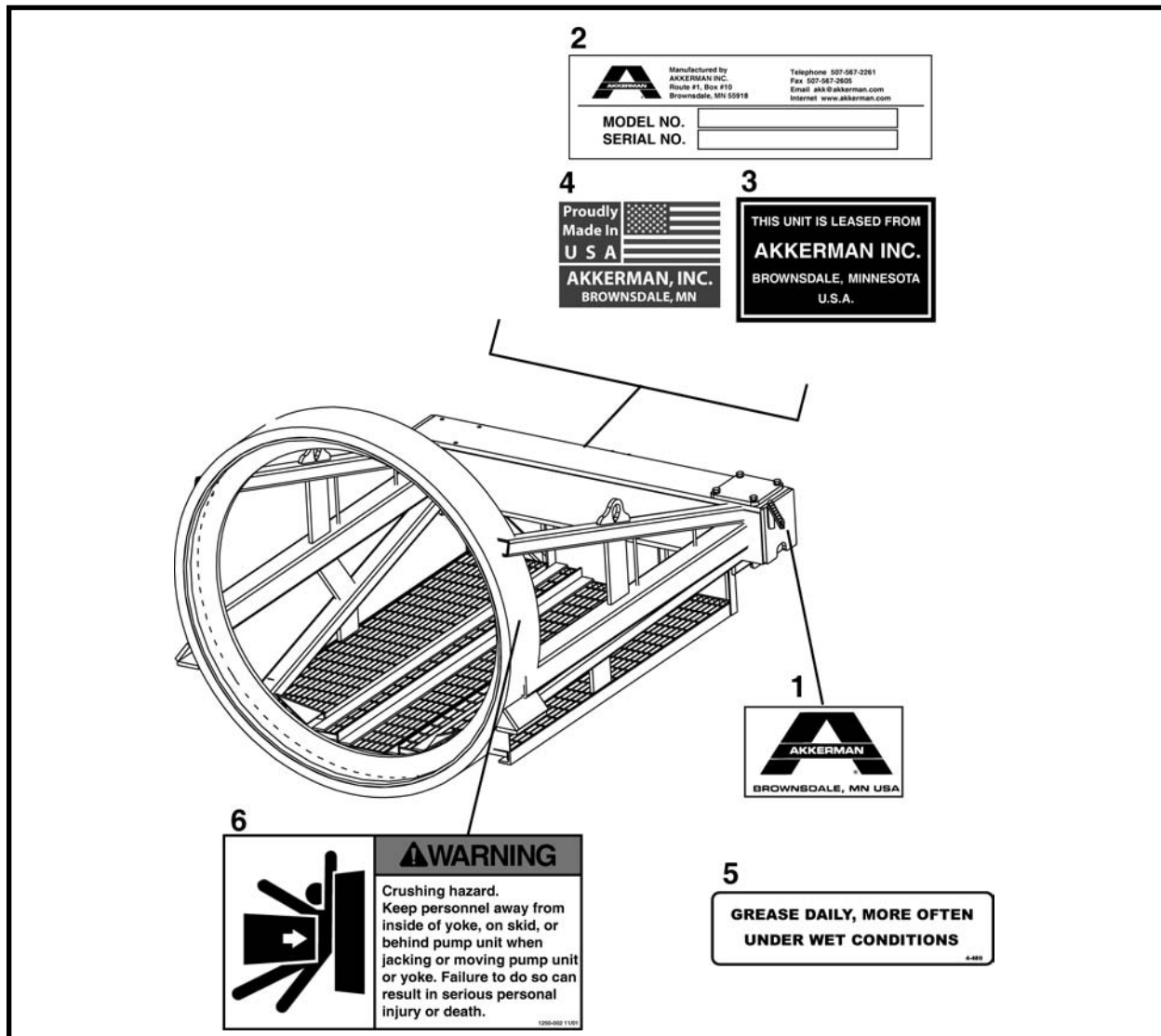
SKID DECALS



ITEM	QTY	PART NO.	DESCRIPTION
1	2	1250-548	DECAL, Akkerman, XLarge
2	1	REF	PLATE, Serial Number
3*	1	1250-098	DECAL, Lease
4	1	1250-544	DECAL, Made in USA

* Note: Decal used only on leased equipment.

YOKE DECALS



ITEM	QTY	PART NO.	DESCRIPTION
1	2	1251-246	DECAL, Akkerman, Large
2	1	REF	PLATE, Serial Number
3*	1	1250-098	DECAL, Lease
4	1	1250-544	DECAL, Made in USA
5	2	4-480	DECAL, Grease Daily
6	2	1250-002	DECAL, Warning, Contact

* Note: Decal used only on leased equipment.

NOTES



Structurals

5000 Pump Unit

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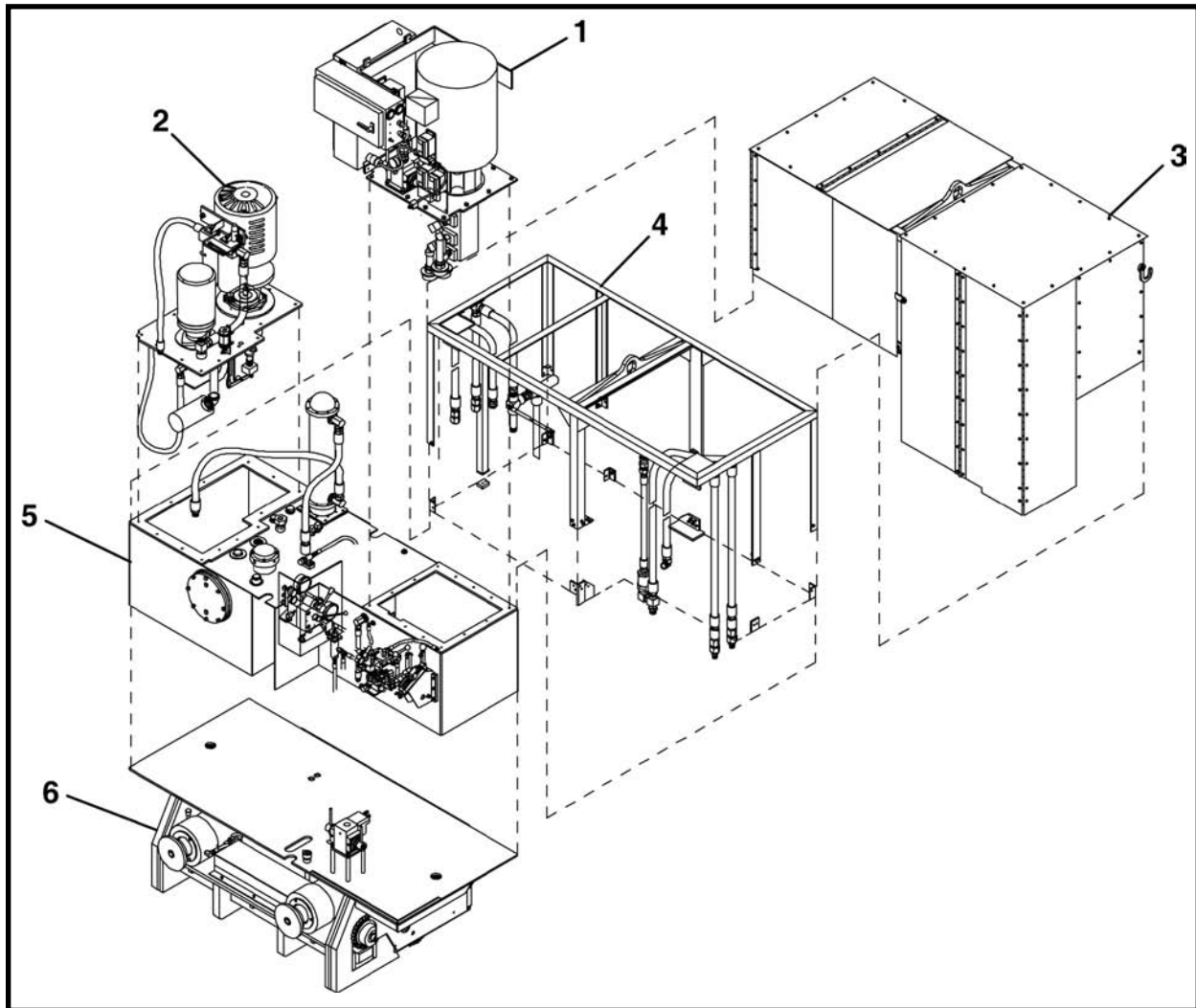
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5000 PUMP UNIT ASSEMBLY, F05050F00 **5000 PUMP UNIT**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	F05050F00	5000 PUMP UNIT ASSEMBLY
1	1	016283A	LOW PRESSURE SUB-ASSEMBLY
2	1	016282A	HIGH PRESSURE SUB-ASSEMBLY
3	1	005055A02	CAB FRAME ASSEMBLY
4	1	016280A	CAB FRAME SUB-ASSEMBLY
5	1	016273A	TANK SUB-ASSEMBLY
6	1	016281A	BASE SUB-ASSEMBLY
7*	1000 QT	P0126-001	HYDRAULIC OIL
8*	REF	**005058A05	HYDRAULIC SCHEMATIC
9*	REF	***008206A01	ELECTRICAL SCHEMATIC

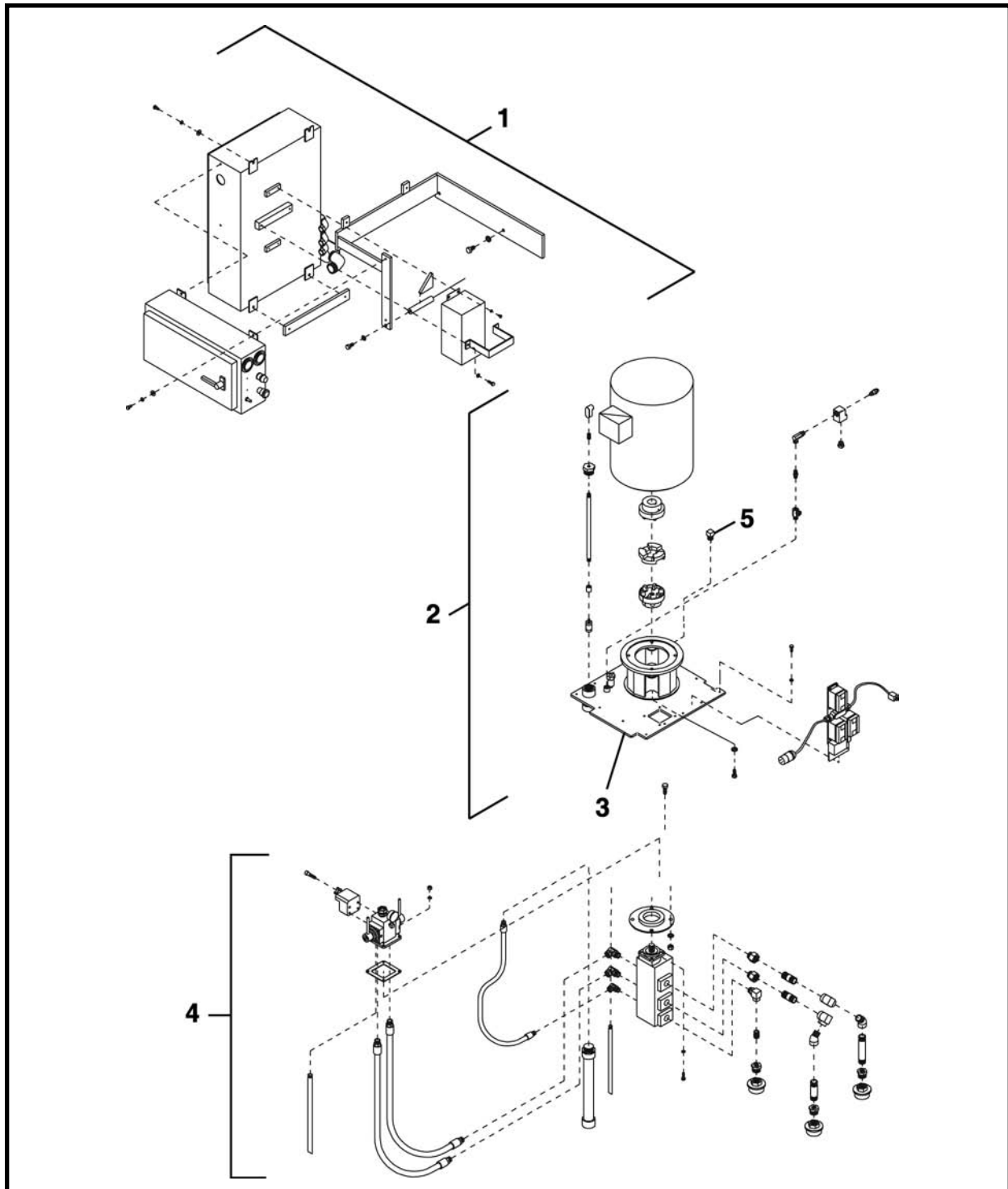
QT - Quart

* Not Shown

** Refer to Section 6, Hydraulics for parts breakdown.

*** Refer to Section 5, Electrical for parts breakdown.

LOW PRESSURE SUB-ASSEMBLY, 016283A **5000 PUMP UNIT**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	016283A	LOW PRESSURE SUB-ASSEMBLY
1*	1	008212A01	ENCLOSURE MOUNTING ASSEMBLY
2*	1	016268A	LOW PRESSURE ASSEMBLY - ABOVE PLATE
3	1	005405A00	MOTOR HOUSING PLATE
4**	1	016267A	LOW PRESSURE ASSEMBLY - BELOW PLATE
5	1	P0416-004	PLUG, 3/4 Square Head

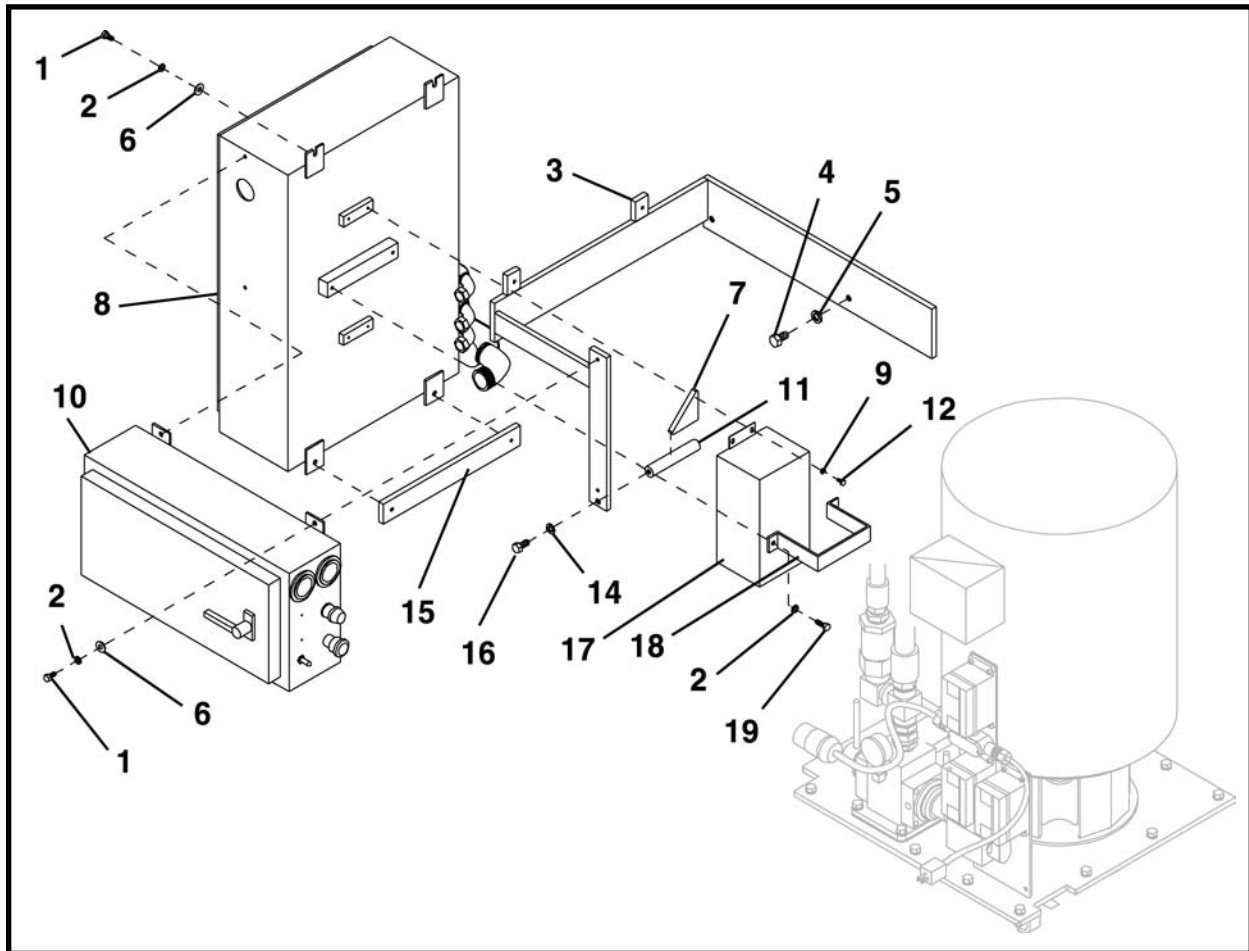
* Refer to this section for parts breakdown.

** Refer to Section 6, Hydraulics for parts breakdown.

ENCLOSURE MOUNTING ASSEMBLY, 008212A01

5000 PUMP UNIT

(SN PU5050-27 THRU PU5050-50)



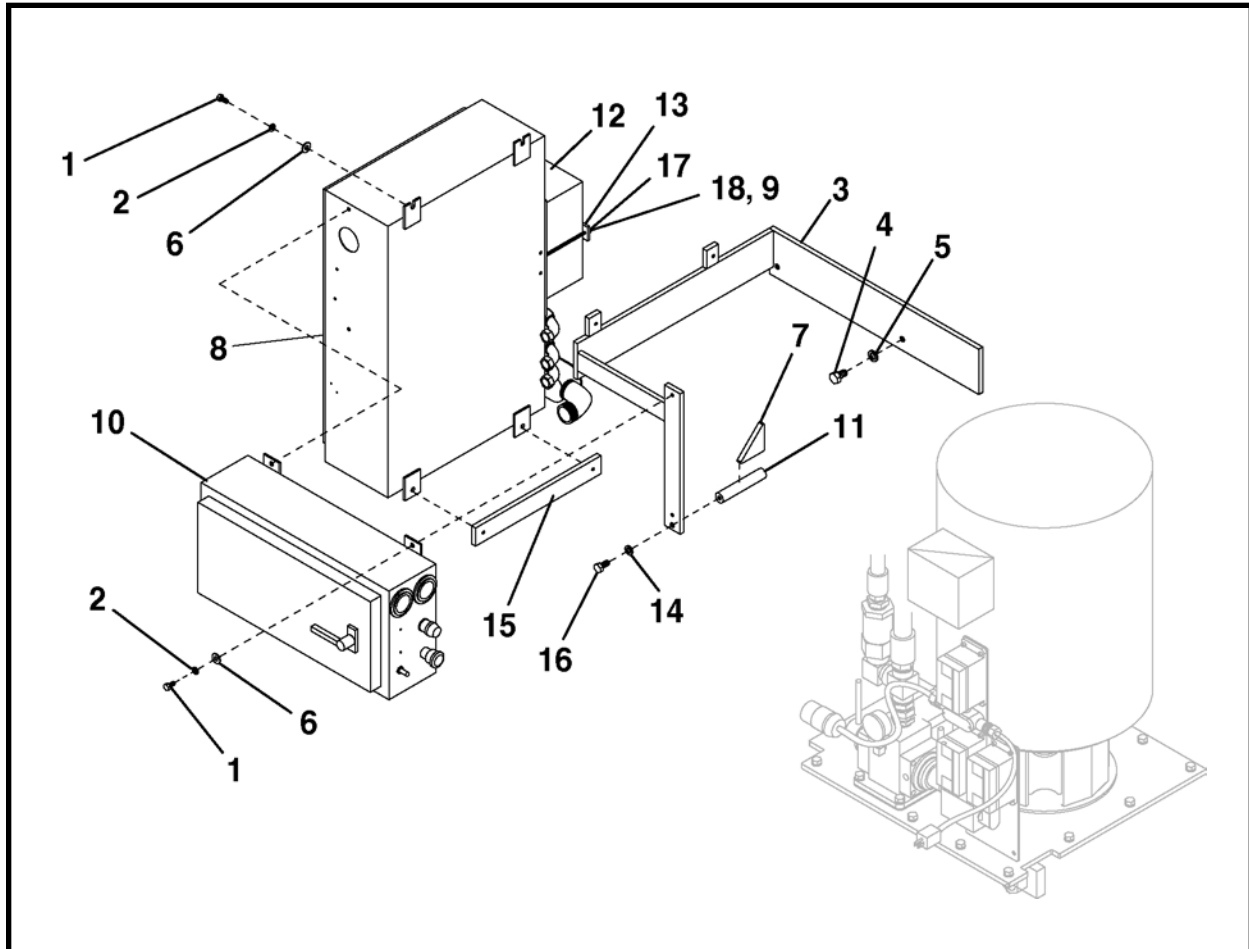
ITEM	QTY	PART NO.	DESCRIPTION
0	1	008212A01	ENCLOSURE MOUNTING ASSEMBLY
1	8	P0001-06-003	BOLT, Hex 3/8-16 UNC x 3/4
2	10	P0045-006	WASHER, Lock 3/8 UNC
3	1	005339A00	UPPER MOTOR BRACKET
4	2	P0001-10-004	BOLT, Hex 5/8-16 UNC x 1
5	2	P0045-010	WASHER, Lock 5/8 UNC
6	8	P0040-006	WASHER, Flat 3/8 UNC
7	1	001317P00	GUSSET, Steering Link
8*	1	016272A	CONTROL PANEL ENCLOSURE ASSEMBLY
9	4	P0045-004	WASHER, Lock 1/4 UNC
10*	1	016270A	DISCONNECT SWITCH ENCLOSURE ASSEMBLY
11	1	008213P00	ROD, Box Mounting
12	4	P0001-04-002	BOLT, Hex 1/4-20 UNC x 1/2
13	-	-	-
14	1	P0045-008	WASHER, Lock 1/2 UNC
15	1	002462P00	ELECTRICAL MOUNTING BOX
16	1	P0001-08-004	BOLT, Hex 1/2-13 UNC x 1
17**	1	P0310-160	TRANSFORMER
18	1	006115P00	TRANSFORMER STRAP
19	2	P0001-06-004	BOLT, Hex 3/8-16 UNC x 1

* Refer to Section 5, Electrical for parts breakdown.

** Transformer, P0310-160 is no longer available and is replaced by P0310-891. Refer to 008212A01, SN PU5050-51 & After, for mounting location.

ENCLOSURE MOUNTING ASSEMBLY, 008212A01

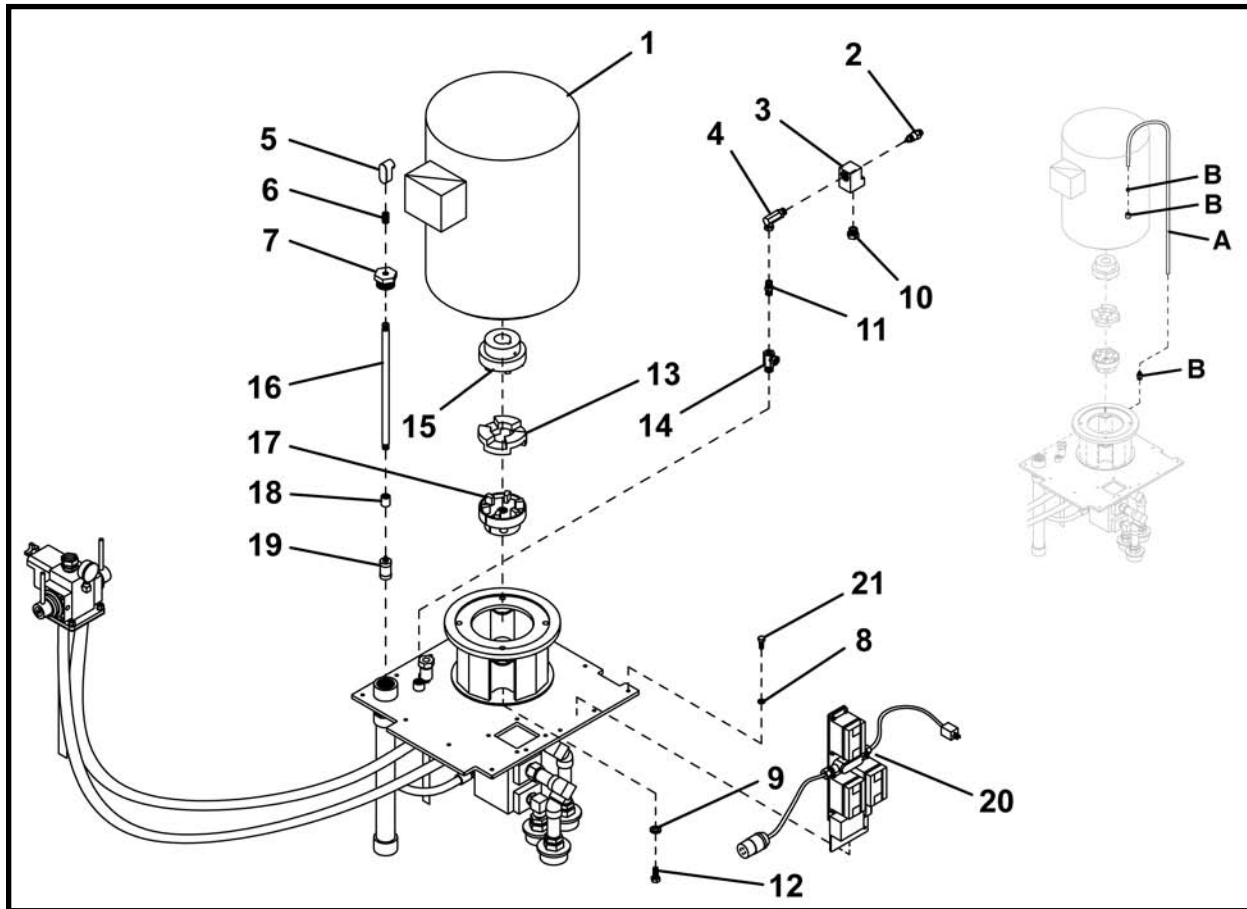
5000 PUMP UNIT
(SN PU5050-51 & AFTER)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	008212A01	ENCLOSURE MOUNTING ASSEMBLY
1	8	P0001-06-003	BOLT, Hex 3/8 UNC x 3/4
2	8	P0045-006	WASHER, Lock 3/8 UNC
3	1	005339A00	BRACKET, Upper Motor
4	2	P0001-10-004	BOLT, Hex 5/8 UNC x 1
5	2	P0045-010	WASHER, Lock 5/8 UNC
6	8	P0040-006	WASHER, Hardened Flat 3/8 UNC
7	1	001317P00	GUSSET, Steering Link
8*	1	016272A	CONTROL PANEL ENCLOSURE ASSEMBLY
9	2	P0045-004	WASHER, Lock 1/4 UNC
10*	1	016270A	DISCONNECT SWITCH ENCLOSURE
11	1	008213P00	ROD, Box Mounting
12	1	P0310-891	TRANSFORMER
13	1	004983P	BAR, Mounting
14	1	P0045-008	WASHER, Lock 1/2 UNC
15	1	002462P00	MOUNT, Electrical Box
16	1	P0001-08-004	BOLT, Hex 1/2 UNC x 1
17	2	004938P	ROD
18	2	P0003-04-000	WASHER, 1/4 UNC

* Refer to Section 5, Electrical for parts breakdown.

LOW PRESSURE ASSEMBLY - ABOVE PLATE, 016268A
5000 PUMP UNIT



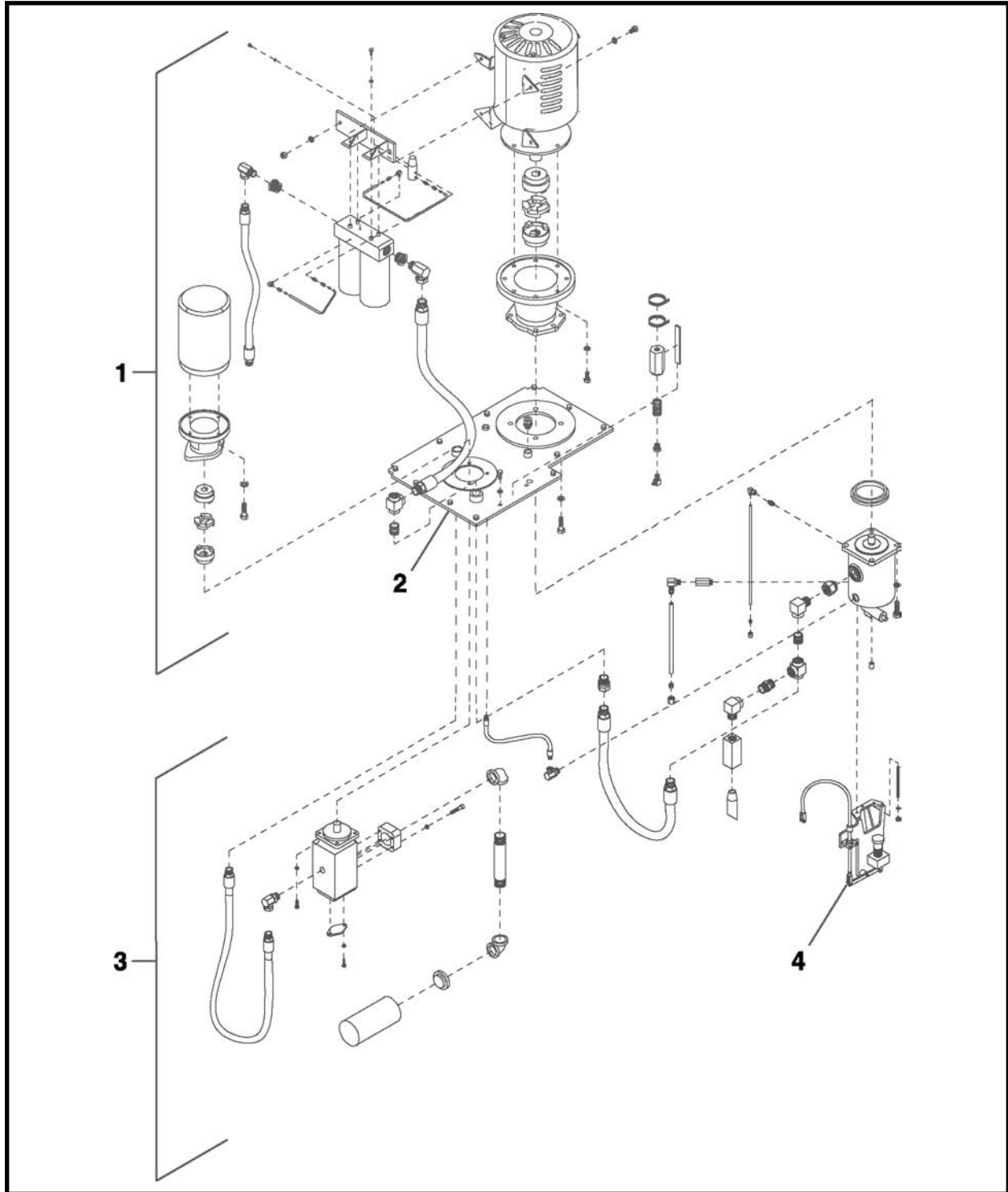
ITEM	QTY	PART NO.	DESCRIPTION
0	1	016268A	LOW PRESSURE ASSEMBLY - ABOVE PLATE
1	1	P0310-163	MOTOR, Electric 100 HP
2	1	P0302-144	VALVE, Relief Cartridge (Boring Head)
3	1	010129P00	VALVE, Relief
4	1	P0300-069	ADAPTER, Swivel 90 Deg.
5	1	P0311-001	CONNECTOR, Conduit 1/2
6	1	P0402-003	NIPPLE, Close 1/2
7	1	016288P	FITTING, Float Switch
8	16	P0045-008	WASHER, Lock 1/2 UNC
9	4	P0045-010	WASHER, Lock 5/8 UNC
10	1	008468P00	PLUG
11	1	P0300-048	NIPPLE
12	4	P0001-10-006	BOLT, Hex 5/8-11 UNC x 1-1/2
13	1	P0305-115D	COUPLER INSERT
14	1	008473P00	SWIVEL
15	1	P0305-115A	COUPLER
16	1	016263P	PIPE, Float Switch
17	1	P0305-115B	COUPLER
18	1	016264P	BUSHING, Float Switch Connector
19	1	P0056-039	SWITCH
20*	1	016248A	START/STOP SWITCH PLATE ASSEMBLY
21	16	P0001-08-005	BOLT, Hex 1/2-13 UNC x 1-1/4

Note: Earlier pump units used item A P0110-101 Tubing or P0201-138 Hose and fittings B for the tank breather. If necessary to replace these parts, remove item A and B, and replace with item E P0308-102 Tank Breather.

* Refer to Section 5, Electrical for parts breakdown.

NOTES

HIGH PRESSURE SUB-ASSEMBLY, 016282A **5000 PUMP UNIT**

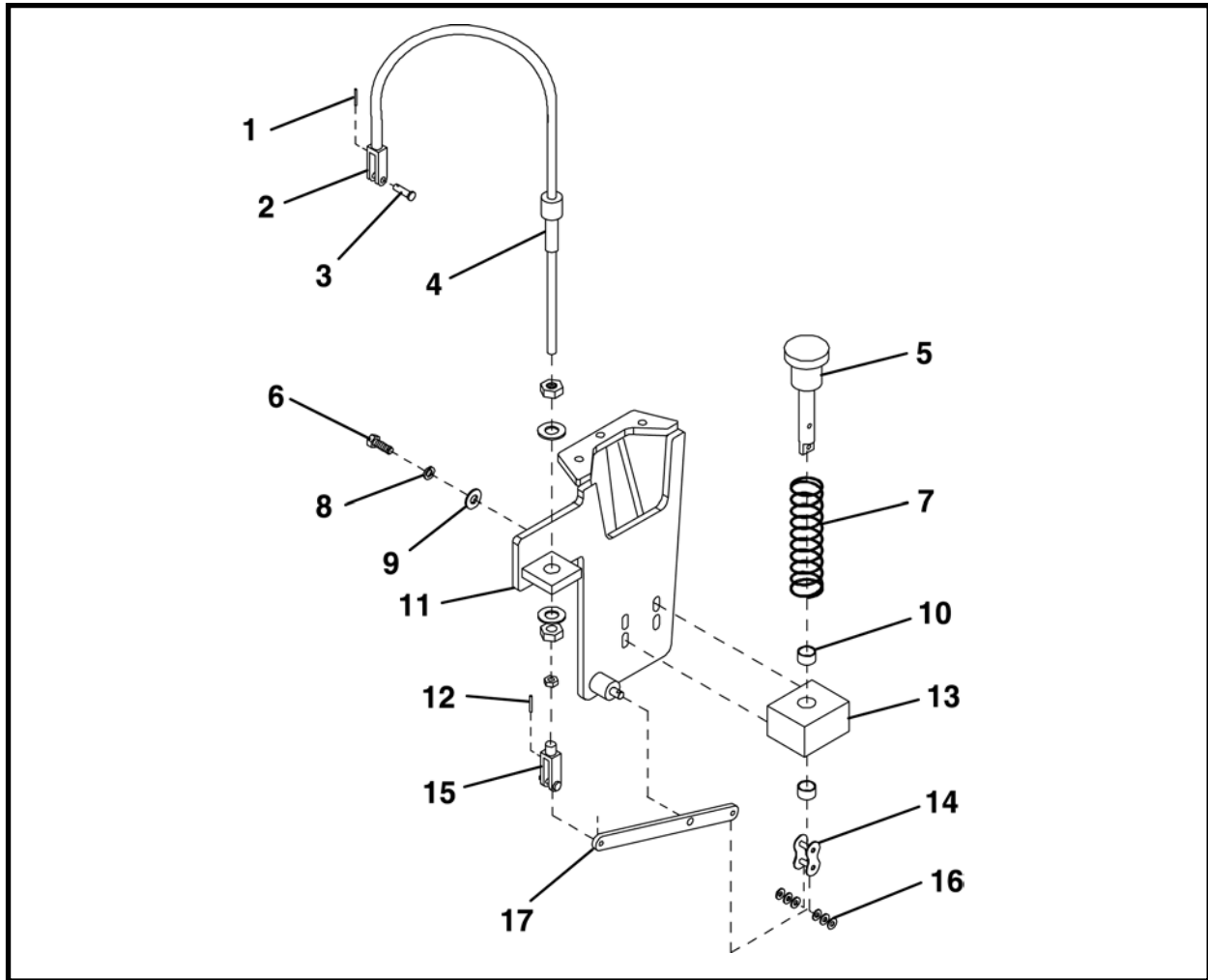


ITEM	QTY	PART NO.	DESCRIPTION
0	1	016282A	HIGH PRESSURE SUB-ASSEMBLY
1*	1	016257A	HIGH PRESSURE ASSEMBLY - ABOVE PLATE
2	1	016220A	HIGH PRESSURE ASSEMBLY PLATE
3*	1	016258A	HIGH PRESSURE ASSEMBLY - BELOW PLATE (includes item 4)
4**	1	016256A	PUMP STROKER BRACKET ASSEMBLY

* Refer to Section 6, Hydraulics for parts breakdown.

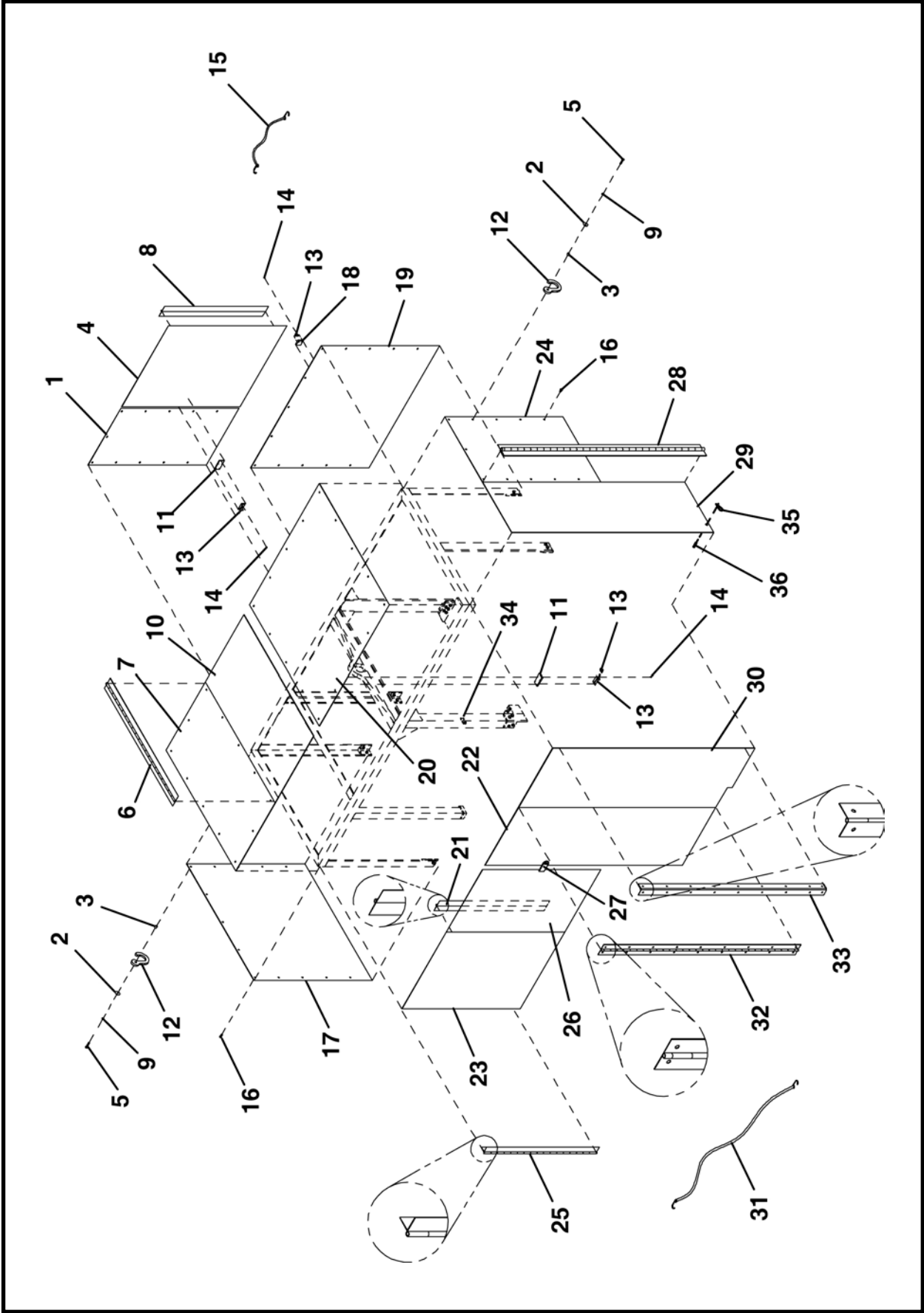
** Refer to this section for parts breakdown.

PUMP STROKER BRACKET ASSEMBLY, 016256A
5000 PUMP UNIT



ITEM	QTY	PART NO.	DESCRIPTION
0	1	016256A	PUMP STROKER BRACKET ASSEMBLY
1	1	P0048-032	PIN, Cotter
2	1	008174P00	BAR
3	1	P0024-006	PIN, Clevis 3/8 x 1-1/4
4	1	P0102-108	CABLE
5	1	016232P00	PLUNGER, Stroker
6	4	P0001-06-003	BOLT, 3/8 UNC x 3/4
7	1	P0070-51	SPRING, Compression
8	4	P0045-006	WASHER, Lock 3/8
9	4	P0040-006	WASHER, Hardened Flat 3/8
10	2	P0065-158	BEARING
11	1	016226A	BRACKET, Pump Stroker
12	1	P0048-012	PIN, Cotter
13	1	016233P00	BLOCK, Bearing
14	1	P0078-008	LINK, Chain Master
15	1	P0024-005	YOKE, Clevis Pin
16	6	P0040-003	WASHER, Hardened Flat 3/16
17	1	016215P	STROKER ARM

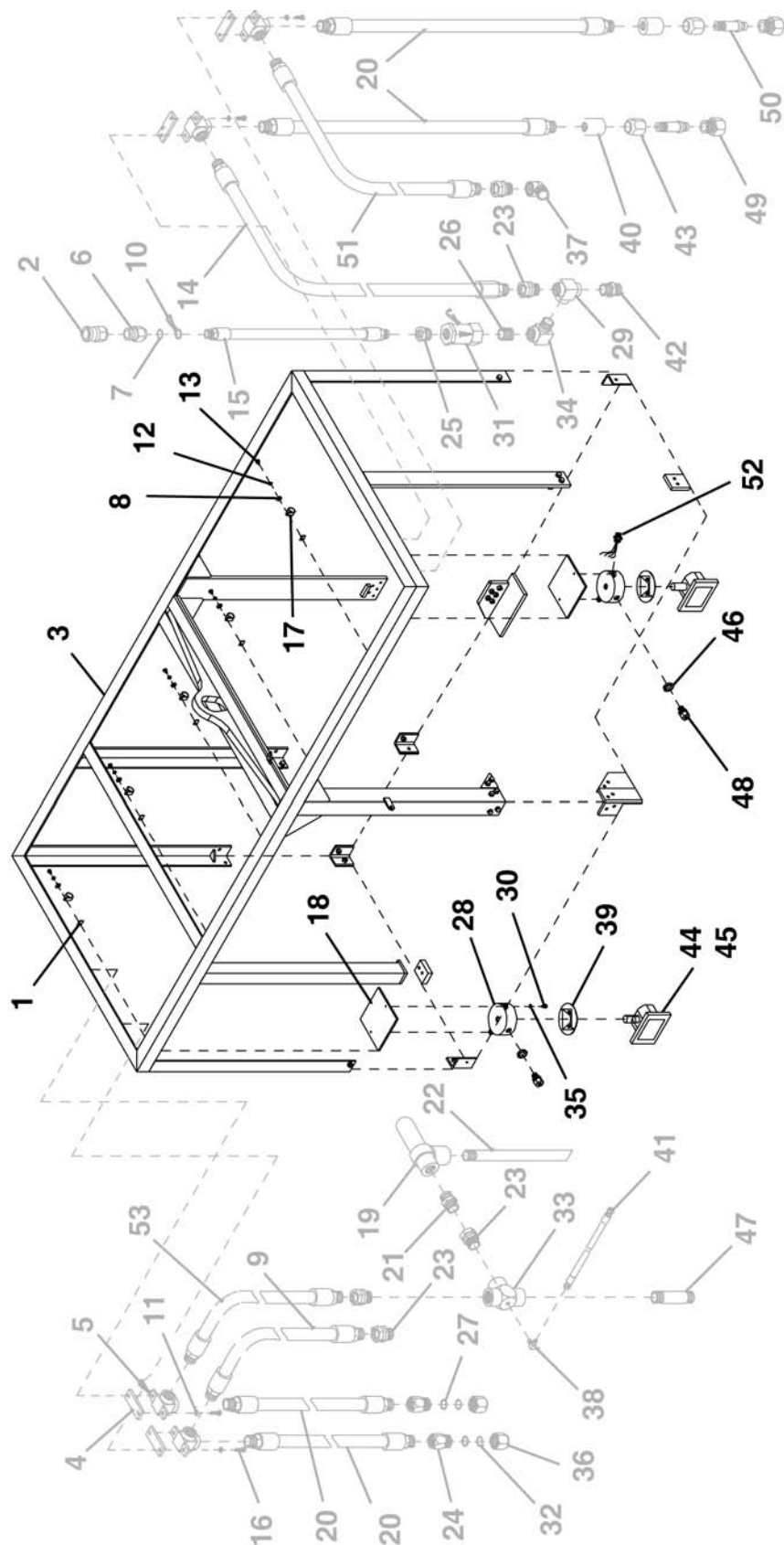
CAB ASSEMBLY, 005055A02
5000 PUMP UNIT



CAB ASSEMBLY, 005055A02
5000 PUMP UNIT

ITEM	QTY	PART NO.	DESCRIPTION
0	1	005055A02	CAB ASSEMBLY
1	1	005266P01	PLATE, Cab Frame
2	2	P0040-005	WASHER, Hardened Flat 5/16
3	2	002636P01	BUSHING, Cable Hook
4	1	005267P01	PANEL, Rear Center
5	2	P0001-05-006	BOLT, 5/16-18 UNC x 1-1/2
6	1	005276P00	HINGE
7	1	005273P01	PLATE, Cab Frame
8	1	005993P00	HINGE
9	2	P0045-005	WASHER, Lock 5/16
10	1	005274P01	PLATE, Cab Frame
11	2	002479P00	BLOCK, Barrel Bolt
12	2	001689P00	HOOK, Power Cable
13	2	P0061-001	BOLT, Barrel 3
14	12	P0035-003	SCREW, Self Tapping 6-32 x 3/8
15	1	003060A00	TIE DOWN, 20
16	74	P0035-002	BOLT, Self Tapping 5/16 UNC x .75
17	1	005265P01	PLATE, Cab Frame
18	1	002481P00	BLOCK, Barrel Bolt
19	1	005268P01	PLATE, Cab Frame
20	1	005275P01	PLATE, Cab Frame
21	1	005991P00	HINGE
22	1	016246P00	PANEL, Right Front Center
23	1	005272P01	PLATE, Cab Frame
24	1	005269P01	PLATE, Cab Frame
25	1	005994P00	HINGE
26	1	005271P01	PLATE, Cab Frame
27	1	001913P00	LATCH, Door
28	1	006739P00	HINGE
29	1	005995P00	PLATE, Cab Frame
30	1	005270P01	PLATE, Cab Frame
31	1	005277A00	TIE DOWN, 41
32	1	003063P00	HINGE
33	1	005992P01	HINGE
34	1	001914P00	LATCH, Door
35	1	P0090-004	CLIP, Hitch Pin 3/16
36	1	001916P	PIN, Cab Side

CAB FRAME SUB-ASSEMBLY STRUCTURALS, 016280A **5000 PUMP UNIT**



CAB FRAME SUB-ASSEMBLY STRUCTURALS, 016280A

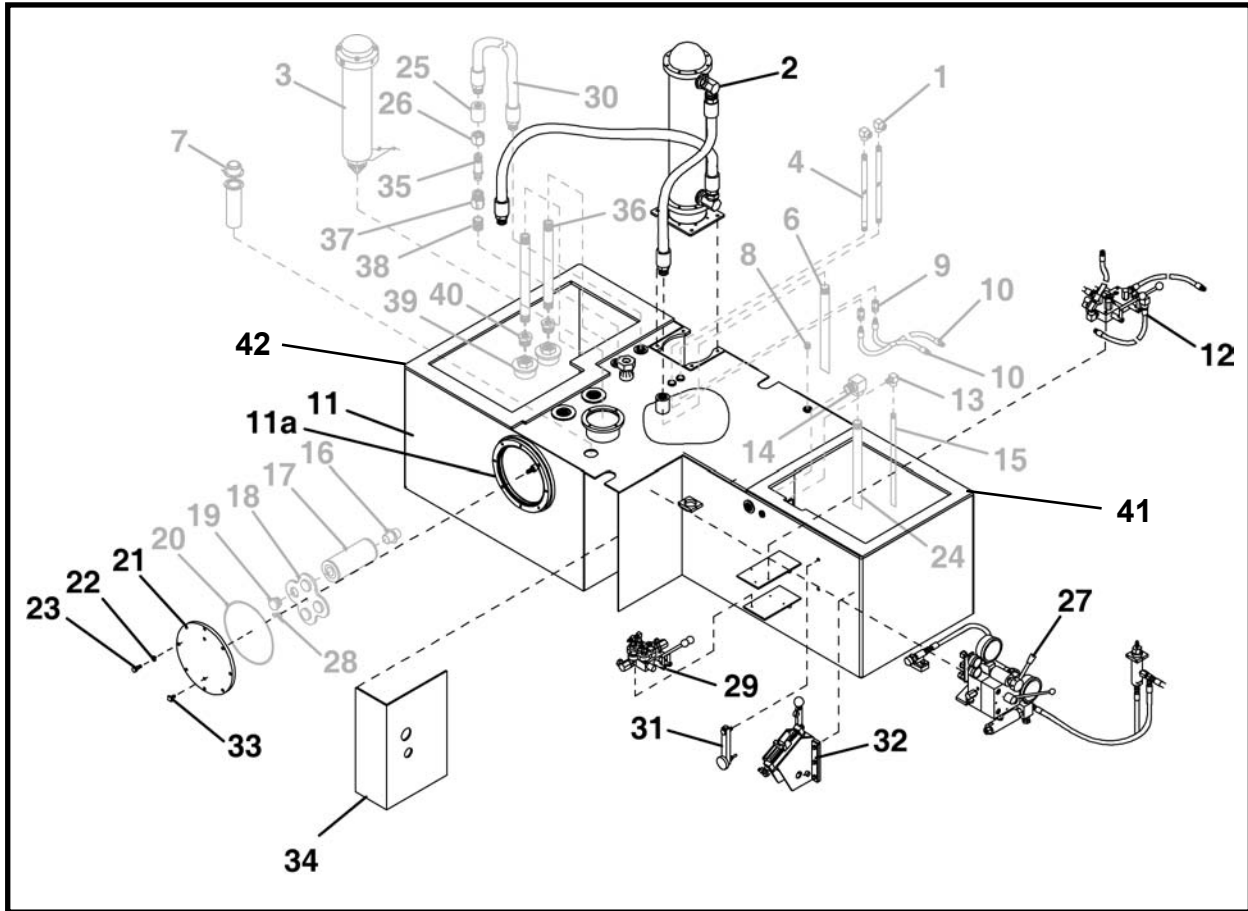
5000 PUMP UNIT

ITEM	QTY	PART NO.	DESCRIPTION
0	1	016280A	CAB FRAME SUB-ASSEMBLY
1	5	P0011-004B	TAB, Weld Nut
2*	REF	-	-
3	1	005056A01	CAB FRAME ASSEMBLY
4*	REF	-	-
5*	REF	-	-
6*	REF	-	-
7*	REF	-	-
8	5	P0040-004	WASHER, Hardened Flat 1/4
9*	REF	-	-
10*	REF	-	-
11*	REF	-	-
12	5	P0045-004	WASHER, Lock 1/4
13	5	P0001-04-001	BOLT, 1/4 UNC x 3/8
14*	REF	-	-
15*	REF	-	-
16*	REF	-	-
17	5	P0055-126	CLAMP
18	2	016276P	PLATE, Mounting Light
19*	REF	-	-
20*	REF	-	-
21*	REF	-	-
22*	REF	-	-
23*	REF	-	-
24*	REF	-	-
25*	REF	-	-
26*	REF	-	-
27*	REF	-	-
28	2	P0310-251	HOLDER BOX
29*	REF	-	-
30	4	P0001-04-002	BOLT, 1/4 UNC x 1/2
31*	REF	-	-
32*	REF	-	-
33*	REF	-	-
34*	REF	-	-
35	4	P0045-004	WASHER, Lock 1/4
36*	REF	-	-
37*	REF	-	-
38*	REF	-	-
39	2	P0310-252	COVER, Box
40*	REF	-	-
41*	REF	-	-
42*	REF	-	-
43*	REF	-	-
44	2	P0053-018	LIGHT, Halogen Flood
45	108 LI	P0054-021	WIRE
46	2	P0311-032	BUSHING 1/2
47*	REF	-	-
48	2	P0311-040	CONNECTOR, Strain Relief
49*	REF	-	-
50*	REF	-	-
51*	REF	-	-
52	1	P0054-069	RECEPTACLE
53*	REF	-	-

*** Refer to CAB FRAME SUB-ASSEMBLY HYDRAULICS, 016280A in Section 6, Hydraulics.**

LI - Linear Inch

TANK SUB-ASSEMBLY STRUCTURALS, 016273A
5000 PUMP UNIT



ITEM	QTY	PART NO.	DESCRIPTION
0	1	016273A	TANK SUB-ASSEMBLY
1*	REF	-	-
2**	1	008214A00	HEAT EXCHANGER ASSEMBLY
3*	REF	-	-
4*	REF	-	-
5*	REF	-	-
6*	REF	-	-
7*	REF	-	-
8*	REF	-	-
9*	REF	-	-
10*	REF	-	-
11	1	016200A00	TANK WELDMENT (includes item 11a)
11a**	1	008004A00	BARREL ASSEMBLY, RT-8 Filter
12**	1	016259A	DRIVE VALVE ASSEMBLY
13*	REF	-	-
14*	REF	-	-
15*	REF	-	-
16*	REF	-	-
17*	REF	-	-
18*	REF	-	-
19*	REF	-	-
20*	REF	-	-
21	1	007092P00	PLATE, Cover
22	8	P0045-008	WASHER, Lock 1/2
23	8	P0001-08-005	BOLT, 1/2 UNC x 1-1/4

TANK SUB-ASSEMBLY STRUCTURALS, 016273A**5000 PUMP UNIT**

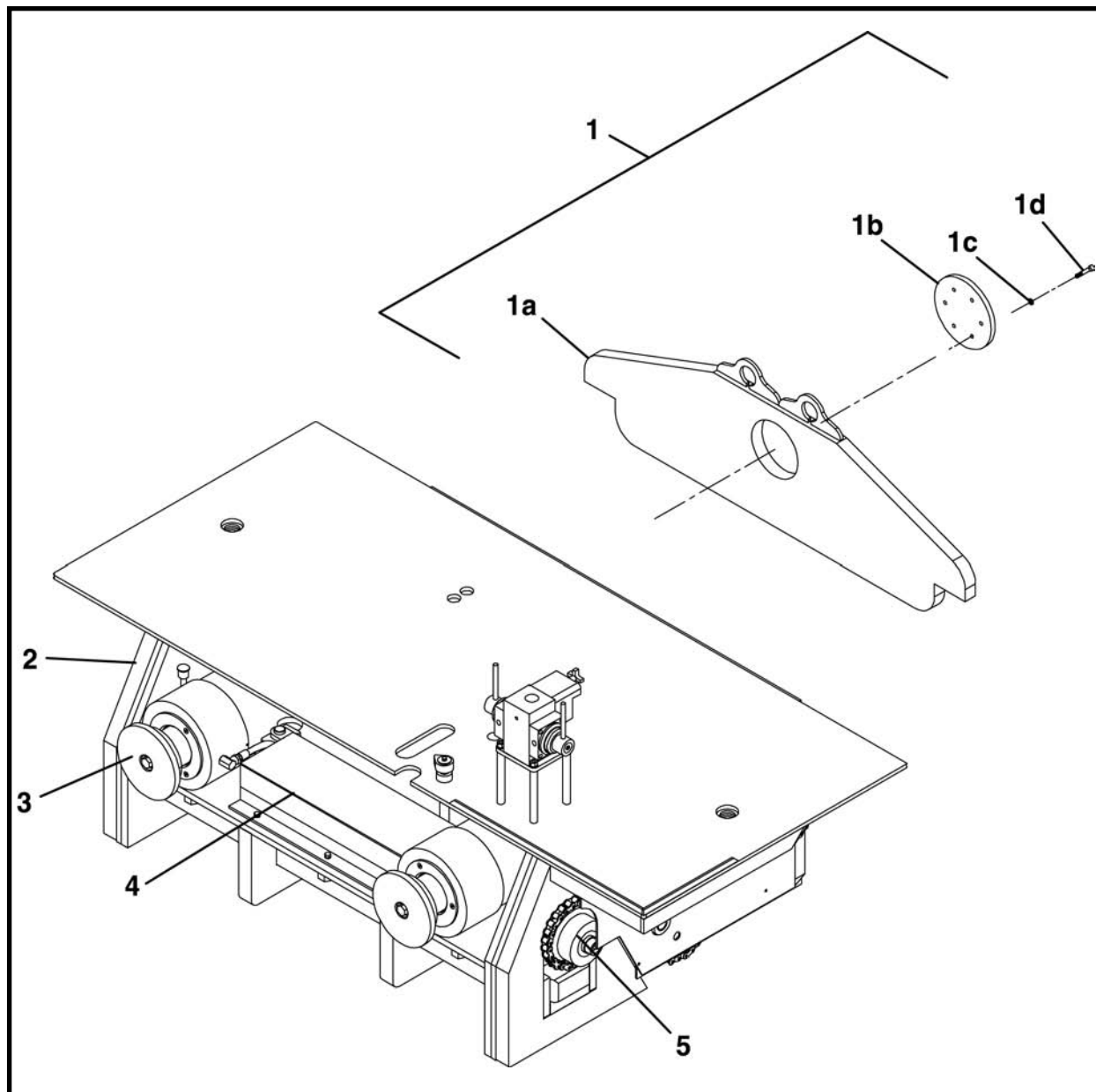
ITEM	QTY	PART NO.	DESCRIPTION
24*	REF	-	-
25*	REF	-	-
26*	REF	-	-
27.1**	1	005393A02	SHEAR VALVE ASSEMBLY (SN PU5050-27 thru PU5050-49)
27.2**	1	016315A	SHEAR VALVE ASSEMBLY (SN PU5050-50 & After)
28*	REF	-	-
29**	1	016260A	CYLINDER VALVE ASSEMBLY
30*	REF	-	-
31	1	P0301-106	SIGHT GAUGE
32***	1	007406A01	CABLE STROKER ASSEMBLY
33	2	P0416-003	PLUG, Square Head 1/2
34	1	005925P00	SHIELD, Shear Valve
35*	REF	-	-
36*	REF	-	-
37*	REF	-	-
38*	REF	-	-
39*	REF	-	-
40*	REF	-	-
41	1	P0029-004-018	GASKET, 18 FT
42	1	P0029-004-022	GASKET, 22 FT

* Refer to **TANK SUB-ASSEMBLY HYDRAULICS, 016273A** in Section 6, Hydraulics.

** Refer to Section 6, Hydraulics for parts breakdown.

*** Refer to Section 4, Operator Controls for parts breakdown.

BASE SUB-ASSEMBLY, 016281A
5000 PUMP UNIT



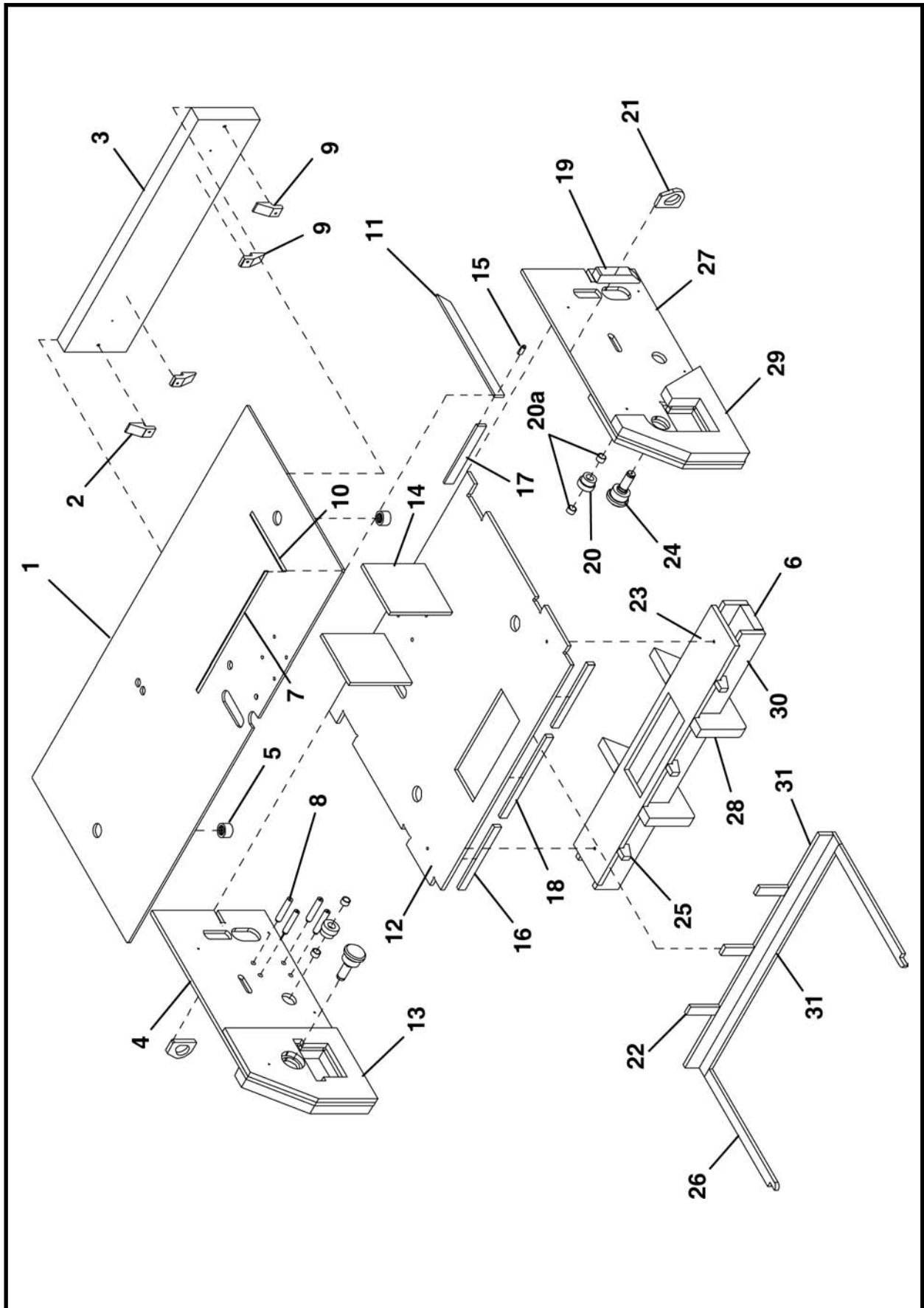
ITEM	QTY	PART NO.	DESCRIPTION
0	1	016281A	BASE SUB-ASSEMBLY
1	1	005057A01	BOLSTER ASSEMBLY (includes items 1a - 1d)
1a	1	005080A01	BOLSTER WELDMENT
1b	1	005960P00	PLATE, Bolster Connecting
1c	6	P0045-008	WASHER, Lock 1/2
1d	6	P0001-08-008	BOLT, 1/2-13 UNC x 2
2	1	005051A02	WELDMENT, Base
3.1*	1	006165A01	DUAL RAM CYL. ASSEMBLY (SN PU5050-27 thru PU5050-49)
3.2*	1	016305A	DUAL RAM CYL. ASSEMBLY (SN PU5050-50 & After)
4**	1	005053A02	DOG CONTROL ASSEMBLY
5**	1	005052A03	DRIVE ASSEMBLY

* Refer to Section 6, Hydraulics for parts breakdown.

** Refer to this section for parts breakdown.

NOTES

BASE WELDMENT, 005051A02
5000 PUMP UNIT

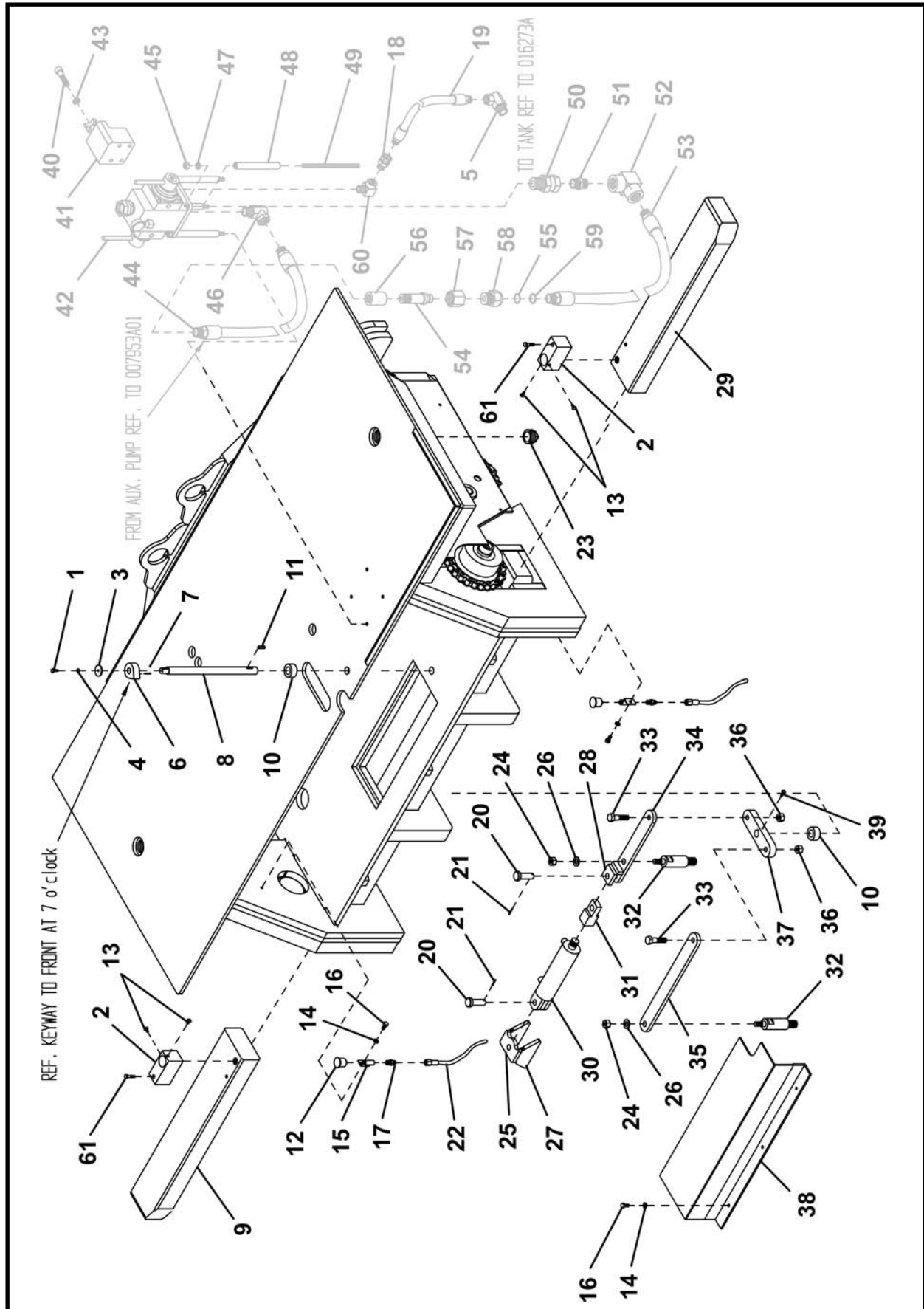


BASE WELDMENT, 005051A02**5000 PUMP UNIT**

ITEM	QTY	PART NO.	DESCRIPTION
0	1	005051A02	BASE WELDMENT
1	1	016219P	PLATE, Cover
2	2	005679P01	BRACKET, Cylinder LH
3	1	005720P	PLATE, Bolster Back
4	1	005671P02	PLATE
5	2	007088P00	DRAIN
6	1	005032P00	BAR
7	1	006142P00	BAR
8	4	002714P00	SHAFT, Mounting
9	2	005678P01	BRACKET, Cylinder RH
10	1	006141P00	BAR
11	1	001750P00	BAR
12	1	005673P01	PLATE
13	2	005669P01	PLATE
14	2	005677P00	BAR
15	1	001914P00	LATCH, Door
16	2	006964P00	BAR, Horizontal Side
17	1	005254P01	BAR
18	1	006965P00	BAR
19	2	005686P00	PLATE
20	2	005680P01	BUSHING, Drive Shaft (includes item 20a)
20a	4	P0066-002	BUSHING
21	2	002908P00	TIE DOWN EYE
22	3	005685P00	BAR
23	1	005667P01	PLATE
24	2	005681P01	HUB, Front
25	3	009184P00	PLATE
26	2	005683P00	BAR
27	1	005672P02	PLATE, Side
28	2	005668P00	PLATE
29	2	005670P01	PLATE
30	2	005666P01	BAR
31	2	005684P00	BAR

DOG CONTROL ASSEMBLY STRUCTURALS, 005053A02

5000 PUMP UNIT



DOG CONTROL ASSEMBLY STRUCTURALS, 005053A02

5000 PUMP UNIT

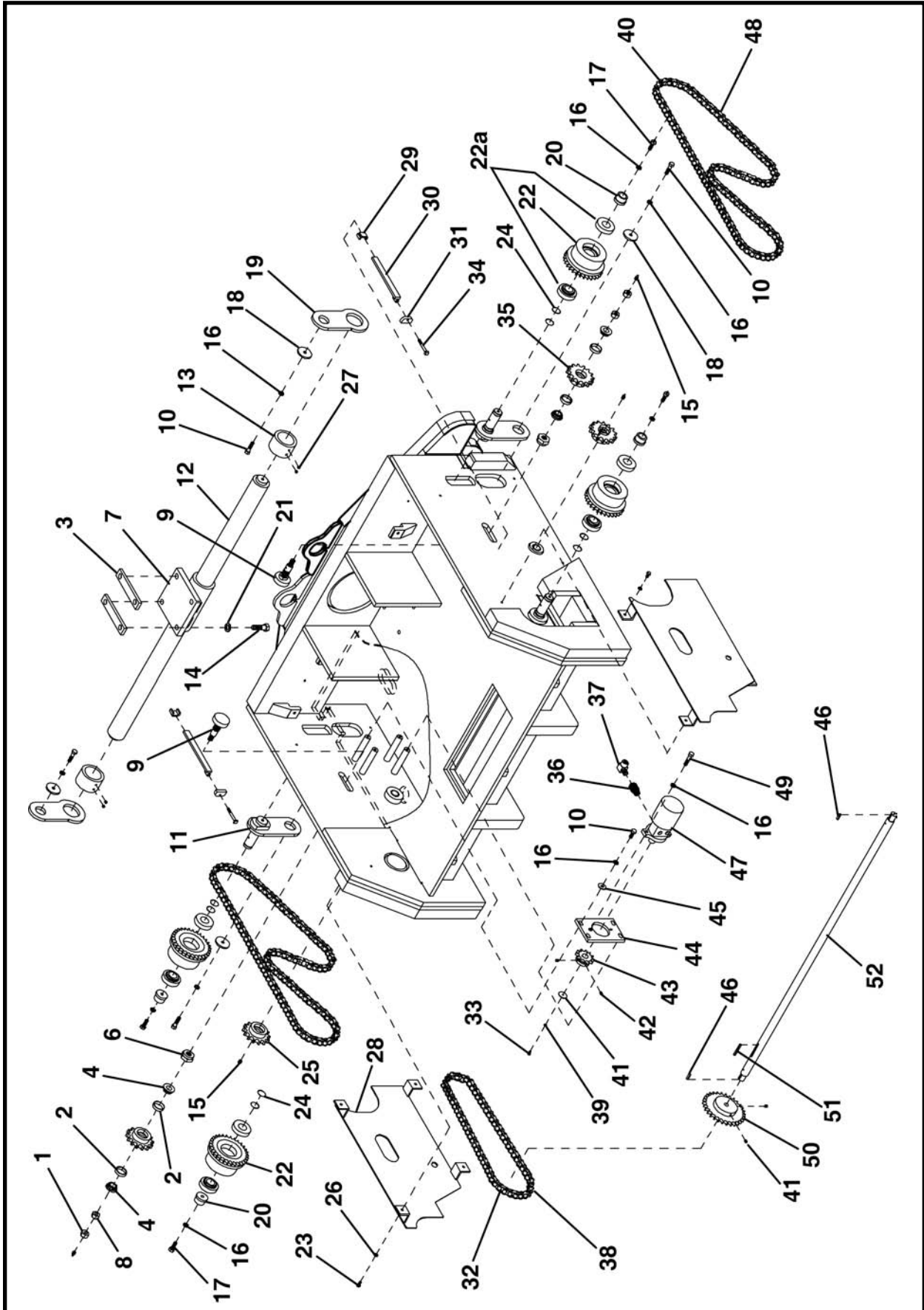
ITEM	QTY	PART NO.	DESCRIPTION
0	1	005053A02	DOG CONTROL ASSEMBLY
1	1	P001-04-003	BOLT, 1/4-20 UNC x .75
2	2	010149A00	DOG PIN STIFFENER ASSEMBLY (includes item 2a)
2a	4	P0003-06-000	NUT, 3/8-16 UNC (not shown)
3	1	P0042-013	WASHER, Fender 1/4 ID x 9/32 x 1-1/2 OD
4	1	P0045-004	WASHER, Lock 1/4
5*	REF	-	FITTING
6**	1	006092P00	PLATE, Indicator
7	1	P0047-001	KEY, 1/8 x 7/8
8	1	005073P01	ROD, Dog Control
9	1	006090P02	BAR, Dog Left
10	2	005078P00	SPACER
11	1	P0047-003	KEY, 1/4 x 1
12	2	P0063-013	OILER
13	4	P0001-06-004	BOLT, 3/8 UNC x 1
14	5	P0045-006	WASHER, Lock 3/8
15	2	008363A00	OILER BRACKET ASSEMBLY
16	5	P0001-06-003	BOLT, 3/8-16 UNC x .75
17	2	P0300-249	FITTING, 04MJ-04MP
18*	REF	-	FITTING
19*	REF	-	HOSE ASSEMBLY
20	2	002301P00	PIN, Cylinder
21	2	P0048-043	PIN, Cotter
22	2	A10083A-009	ASSEMBLY, Hose 1/4 x 9
23	2	P0416-007	PLUG, 1-1/2
24	2	P0013-10-000	NUT, Lock 5/8 UNC
25	1	006093P00	BRACKET, Top Mounting Bracket
26	2	P0040-010	WASHER, Hardened Flat 5/8
27	2	006096P00	BRACKET, Cylinder Side
28	1	006088P00	CLEVIS, Top Plate
29	1	006067P02	BAR, Dog Right
30***	1	006084A00	CYLINDER, Dog
31	1	003664P01	BRACKET, Cylinder Mounting
32	2	006091P00	PIN, Dog
33	2	P0001-10-009	BOLT, 5/8-11 UNC x 2.25
34	1	006094P00	CLEVIS, Cylinder
35	1	006095P00	PLATE, Dog Control Pivot
36	2	P0007-10-000	NUT, 5/8 UNC Jam
37	1	006089P01	ARM, Dog Control Pivot
38	1	006177A00	COVER, Dog Control
39	1	P0034-04-003	BOLT, 1/4 UNC x .75
40* - 61*	REF	-	-

* Refer to DOG CONTROL ASSEMBLY HYDRAULICS, 005053A02 in Section 6, Hydraulics.

** Keyway to front at 7 o'clock.

*** Refer to Section 10, Cylinders for parts breakdown. Also, for hydraulic hose connections to this cylinder, refer to Cylinder Valve Assembly, 016260A in Section 6, Hydraulics.

DRIVE ASSEMBLY, 005052A03
5000 PUMP UNIT

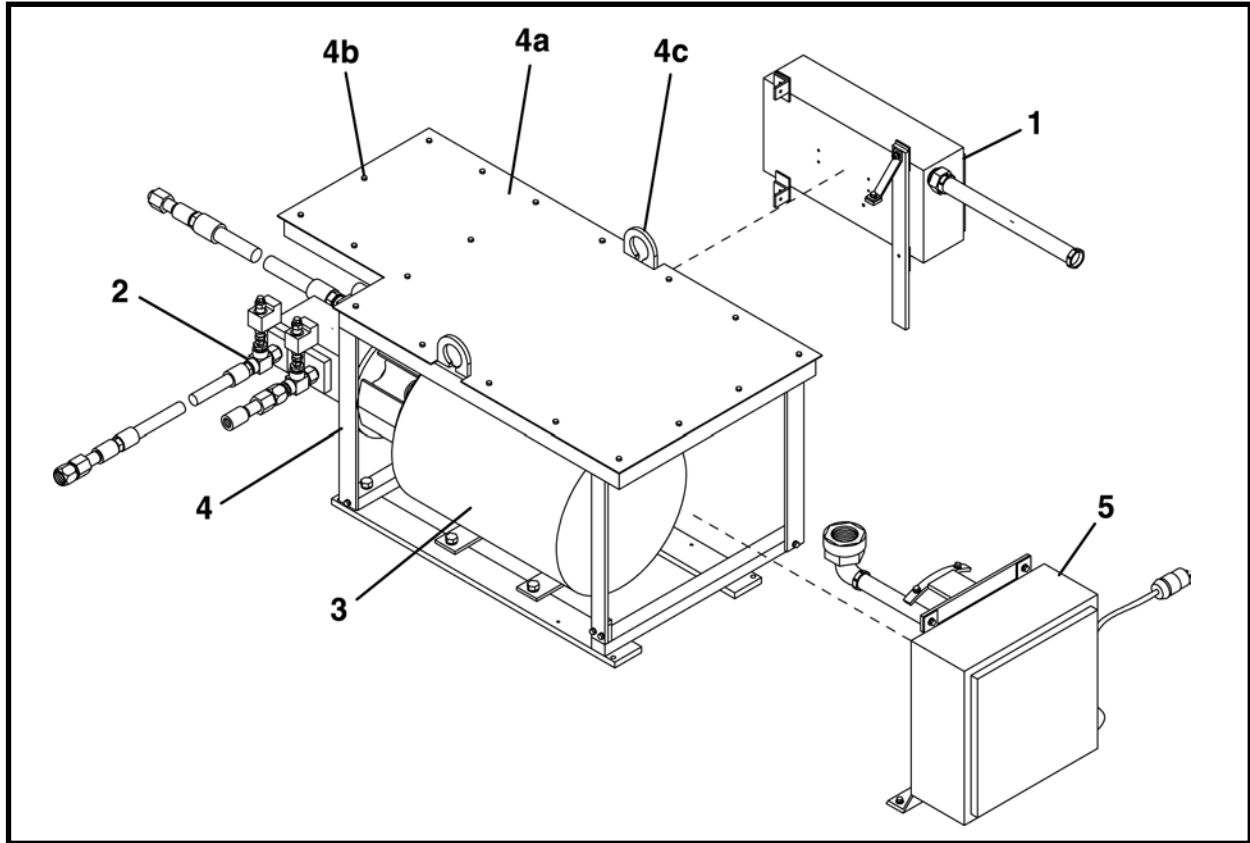


DRIVE ASSEMBLY, 005052A03
5000 PUMP UNIT

ITEM	QTY	PART NO.	DESCRIPTION
0	1	005052A03	DRIVE ASSEMBLY
1	2	P0008-12-000	NUT, Jam, 3/4 UNF
2	4	P0065-021	BEARING CUP
3	2	006268P00	BAR, Spacer
4	4	P0065-020	BEARING CONE
5	-	-	-
6	2	005708P02	NUT, Chain Tightener
7	1	005712A00	HOUSING, Rear Axle
8	2	P0004-12-000	NUT, 3/4 UNF
9	2	005707P01	SHAFT
10	8	P0001-08-005	BOLT, Hex 1/2 UNC x 1.25
11	2	005702A01	HUB, Rear
12	1	005710P00	ROD
13	2	005711P00	BUSHING, Axle
14	4	P0001-12-010	BOLT, Hex 3/4 UNC x 2.5
15	4	P0063-001	FITTING, Grease
16	12	P0045-008	WASHER, Lock 1/2
17	4	005170A00	BOLT, Grease Fitting
18	4	001632P00	WASHER, Pump Unit Wheel
19	2	005705P00	PLATE
20	4	008456A01	ASSEMBLY, Fitting Guard
21	4	P0045-010	WASHER, Lock 3/4 UNC
22	4	005063A01	SPROCKET, Drive Wheel (includes item 22a)
22a	8	P0065-004	BEARING
23	8	P0001-06-003	BOLT, Hex 3/8 UNC x .75
24	8	P0085-028	O-RING
25	2	005706A02	SPROCKET, Drive
26	8	P0046-006	WASHER, Lock 3/8
27	4	P0033-06-004	SCREW, Socket Head Set 3/8 x .25
28	2	006144A00	COVER, Drive
29	2	006226P00	BAR
30	2	006223A00	BAR, Chain Tightener
31	2	006227P00	BAR, Drive Chain Adjustment
32	2	P0078-005	LINK, Half Chain #60
33	2	P0001-04-002	BOLT, 1/4 UNC x .5
34	2	P0034-06-012	SCREW, Square Head Set 3/8 UNC x 3
35	2	002711P01	SPROCKET, Idler
36	2	P0300-010	FITTING, 08MP-08FPX
37	2	P0300-032	FITTING, 08MP-08FP90 Brazed
38	50 LI	P0078-002	CHAIN, Single #60
39	1	P0045-004	WASHER, Lock 1/4
40	2	P0078-002-144	CHAIN, Drive #60 x 144
41	1	P0042-013	WASHER, Hardened Fender 1/4 x 9/32 x 1.5
42	4	P0034-06-005	SCREW, Square Head Set 3/8 UNC x 1.25
43	1	P0071-001	SPROCKET, Drive Motor
44	1	001915P01	HOLDER, Drive Motor
45	4	P0040-008	WASHER, Hardened Flat 1/2
46	2	P0047-003	KEY, Square 1/4
47	1	P0304-100	MOTOR, Hydraulic
48	3	P0078-008	LINK, Connector #60
49	2	P0031-08-006	SCREW, Socket Head Cap 1/2 UNC x 1.5
50	1	006267P00	SPROCKET
51	1 LI	P0047-003	KEY, Square 1/4
52	1	005067P02	SHAFT, Drive

LI - Linear Inch

AUXILIARY UNIT ASSEMBLY, F08020F00 **AUXILIARY PUMP UNIT**

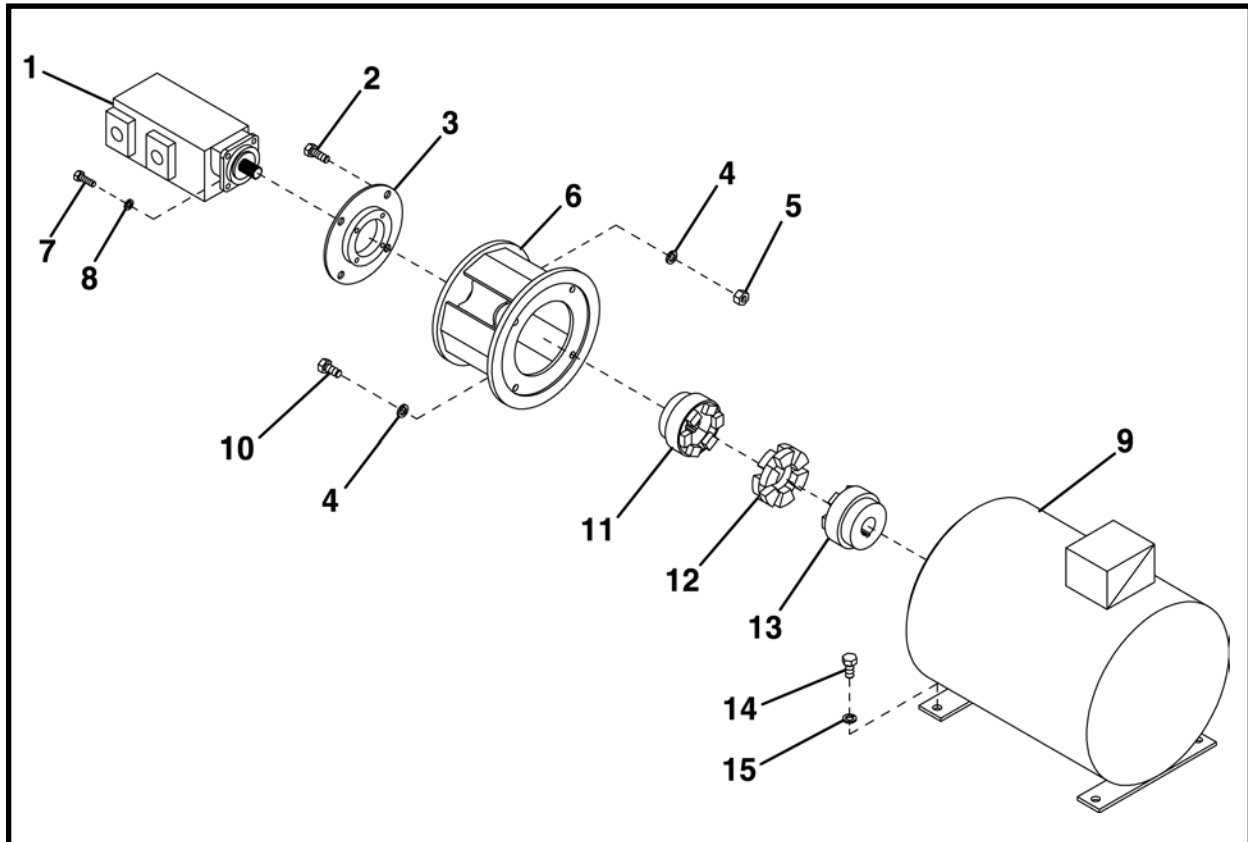


ITEM	QTY	PART NO.	DESCRIPTION
0	1	F08020F00	AUXILIARY UNIT ASSEMBLY
1*	1	016290A	SMALL ENCLOSURE ASSEMBLY
2**	1	007953A01	HYDRAULIC ASSEMBLY
3	1	007954A00	MOTOR TO PUMP ASSEMBLY
4	1	008130A00	CAB & FRAME ASSEMBLY (includes items 4a - 4c)
4a	1	008127P00	PLATE
4b	19	P0035-002	BOLT, Self Tapping 5/16-18 UNC
4c	2	003529P03	LIFTING EYE
5*	1	016291A	LARGE ENCLOSURE ASSEMBLY
6*	REF	007952A00	ELECTRICAL SCHEMATIC

* Refer to Section 5, Electrical for parts breakdown.

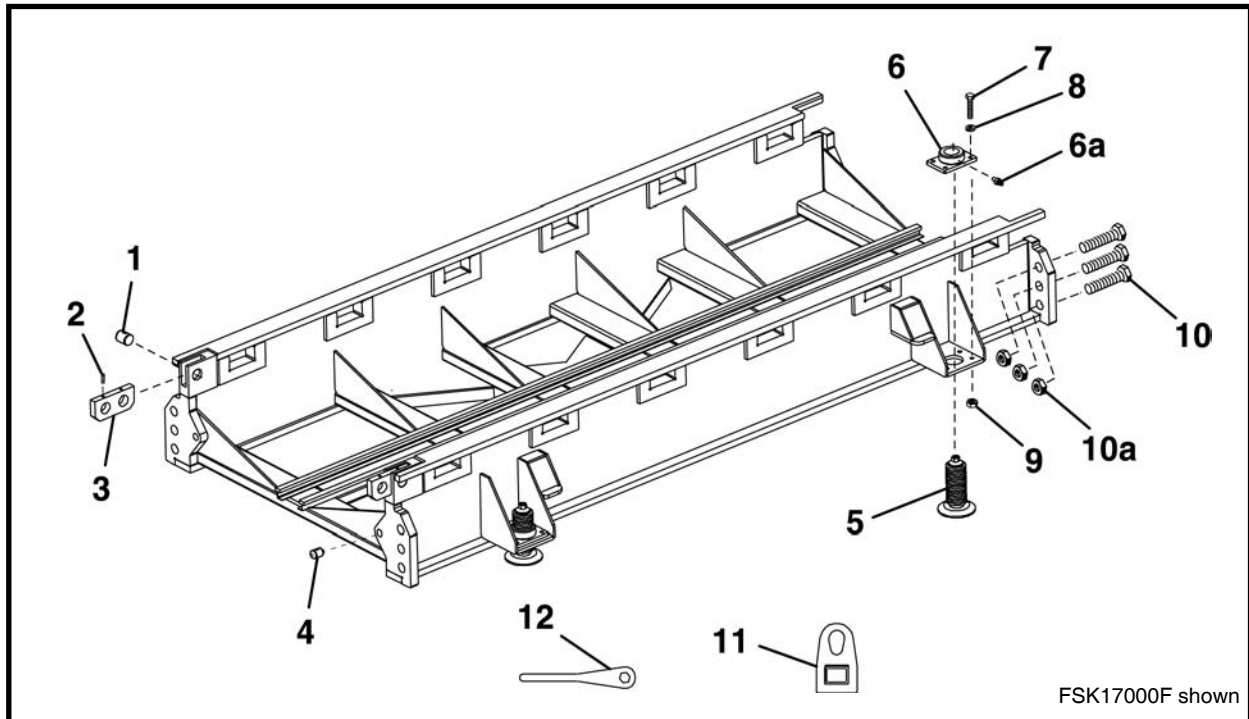
** Refer to Section 6, Hydraulics for parts breakdown.

MOTOR TO PUMP ASSEMBLY, 007954A00
AUXILIARY PUMP UNIT



ITEM	QTY	PART NO.	DESCRIPTION
0	1	007954A00	MOTOR TO PUMP ASSEMBLY
1	1	P0303-190	PUMP, Double
2	4	P0001-12-008	BOLT, 3/4 UNC x 2
3	1	002626P00	ADAPTER
4	8	P0045-010	WASHER, Lock 5/8
5	4	P0003-10-000	NUT, 5/8 UNC
6	1	005110A00	HOUSING, Motor To Pump
7	4	P0001-08-006	BOLT, 1/2 UNC x 1.5
8	4	P0045-008	WASHER, Lock 1/2
9	1	P0310-163	MOTOR, 100 HP
10	4	P0001-10-006	BOLT, 5/8 UNC x 1.5
11	1	P0305-115B	SPLINE
12	1	P0305-115D	INSERT
13	1	P0305-115A	COUPLER
14	4	P0001-12-005	BOLT, 3/4 UNC x 1.25
15	4	P0045-012	WASHER, Lock 3/4

SKID ASSEMBLY

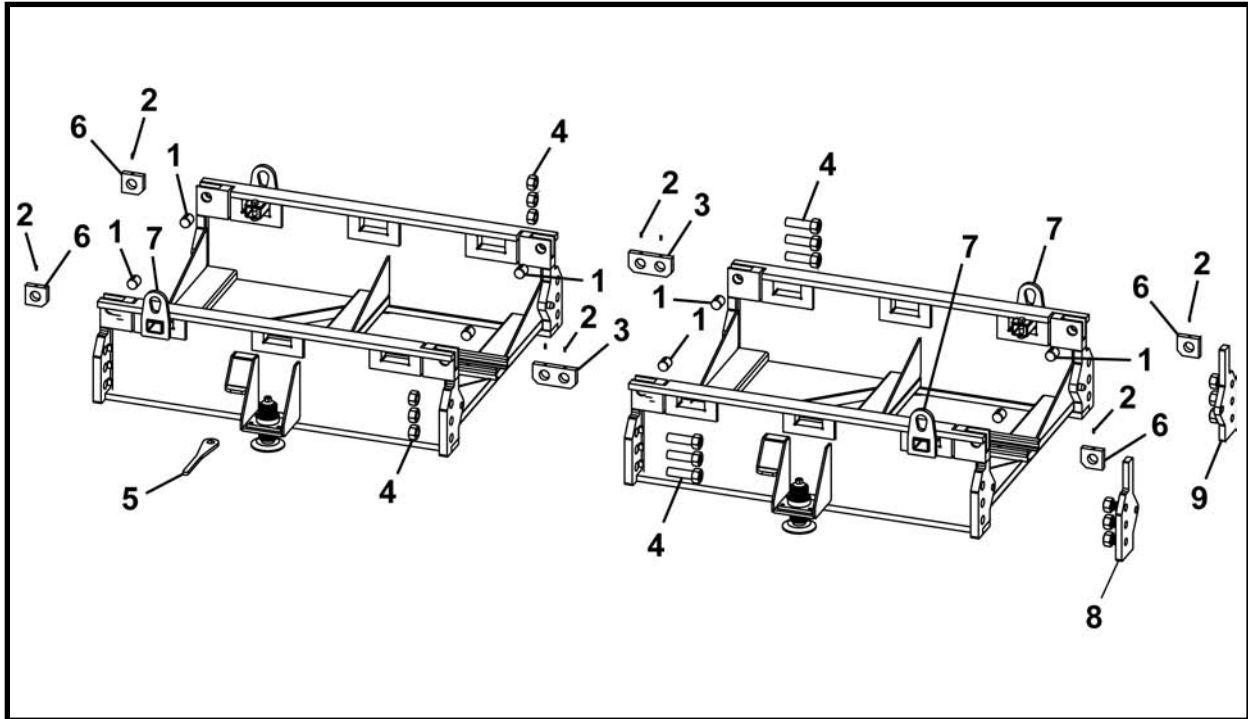


FSK17000F shown

ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	F17000F00	SKID ASSEMBLY, 15 Foot
0.2	1	F17004F00	SKID ASSEMBLY, 7.5 Foot
0.3	1	F17007F00	SKID ASSEMBLY, 22.5 Foot
1	4	017050P01	SKID SPLIT PIN
2	4	P0033-06-016	SET SCREW, Socket 3/8-16 UNC x 1
3	2	017048P01	SKID SPLIT BAR
4	2	017188P00	SKID LOCATOR PIN
5.1	4	005175A00	LEVELING SCREW ASSEMBLY (17000F)
5.2	2	005175A00	LEVELING SCREW ASSEMBLY (17004F)
5.3	6	005175A00	LEVELING SCREW ASSEMBLY (17007F)
6.1	4	005177A00	LEVELING NUT ASSEMBLY (17000F) (includes item 6a)
6.2	2	005177A00	LEVELING NUT ASSEMBLY (17004F) (includes item 6a)
6.3	6	005177A00	LEVELING NUT ASSEMBLY (17007F) (includes item 6a)
6a	1 per assembly	P0063-001	FITTING, Grease 1/4 UNF
7.1	16	P0001-12-010	BOLT, 3/4-10 UNC x 2.5 (17000F)
7.2	8	P0001-12-010	BOLT, 3/4-10 UNC x 2.5 (17004F)
7.3	24	P0001-12-010	BOLT, 3/4-10 UNC x 2.5 (17007F)
8.1	16	P0045-012	WASHER, Lock 3/4 (17000F)
8.2	8	P0045-012	WASHER, Lock 3/4 (17004F)
8.3	24	P0045-012	WASHER, Lock 3/4 (17007F)
9.1	16	P0003-12-000	NUT, 3/4 (17000F)
9.2	8	P0003-12-000	NUT, 3/4 (17004F)
9.3	24	P0003-12-000	NUT, 3/4 (17007F)
10	6	006911A00	SKID BOLT ASSEMBLY (includes 10a)
10a	6	P0005-32-000	NUT, Hardened
11.1	4	009815A00	LIFT EYE ASSEMBLY (17000F & 17007F) (includes items 11a & 11b)
11.2	2	009815A00	LIFT EYE ASSEMBLY (17004F) (includes items 11a & 11b)
11a*	1 per assembly	P0001-16-016	BOLT, 1-8 UNC x 4
11b*	1 per assembly	P0003-16-000	NUT, 1
12	1	001563P00	WRENCH, Skid Assembly

* Not Shown

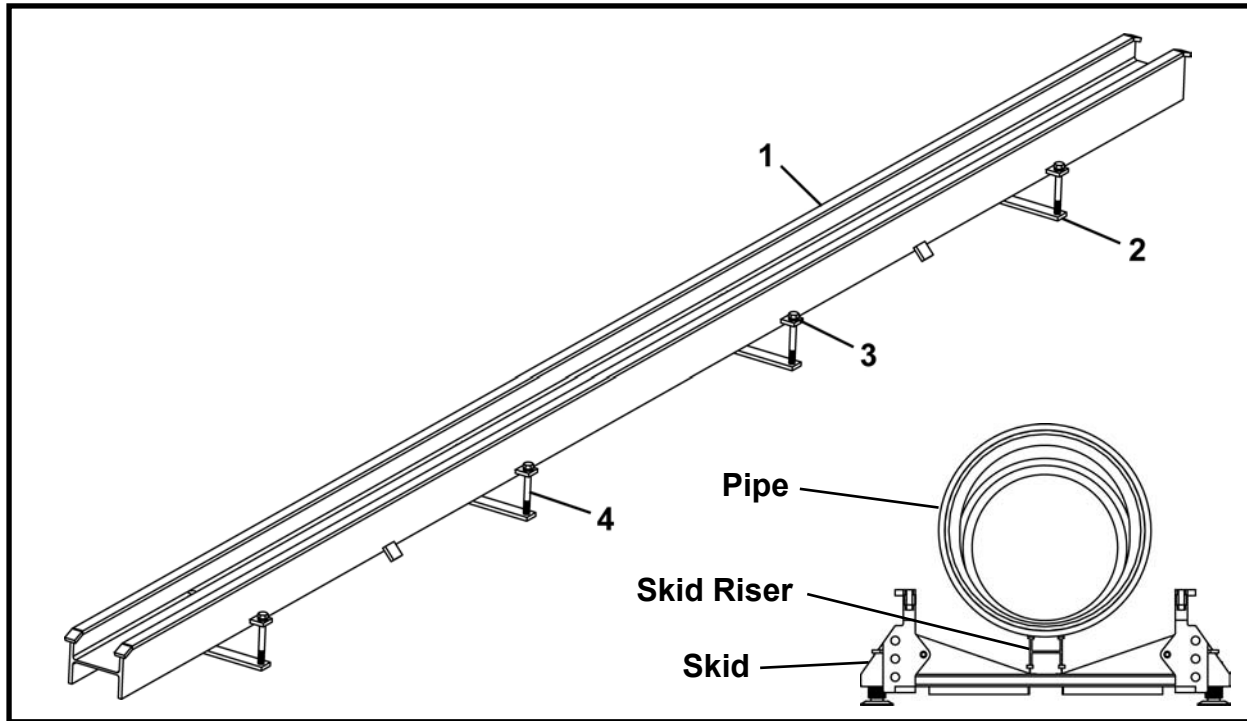
SKID MOUNTING ASSEMBLY, 017300A



ITEM	QTY	PART NO.	DESCRIPTION
0	-	017300A	SKID MOUNTING ASSEMBLY
1	8	017050P01	PIN, Skid Split
2	8	P0033--06-016	SCREW, Socket Head Cap 3/8 UNC x 1
3	2	017048P01	BAR, Skid Split
4	6	006911A00	SKID BOLT ASSEMBLY
5	1	001563P00	WRENCH, Skid
6	4	017301P	PLATE, Skid Pocket
7	4	009815A00	LEFT EYE
8	1	017017A00	THRUST PLATE ADAPTER ASSEMBLY
9	1	017018A00	THRUST PLATE ADAPTER ASSEMBLY

SKID RISER ASSEMBLY, F08297F00

22.5 SKID ASSEMBLY

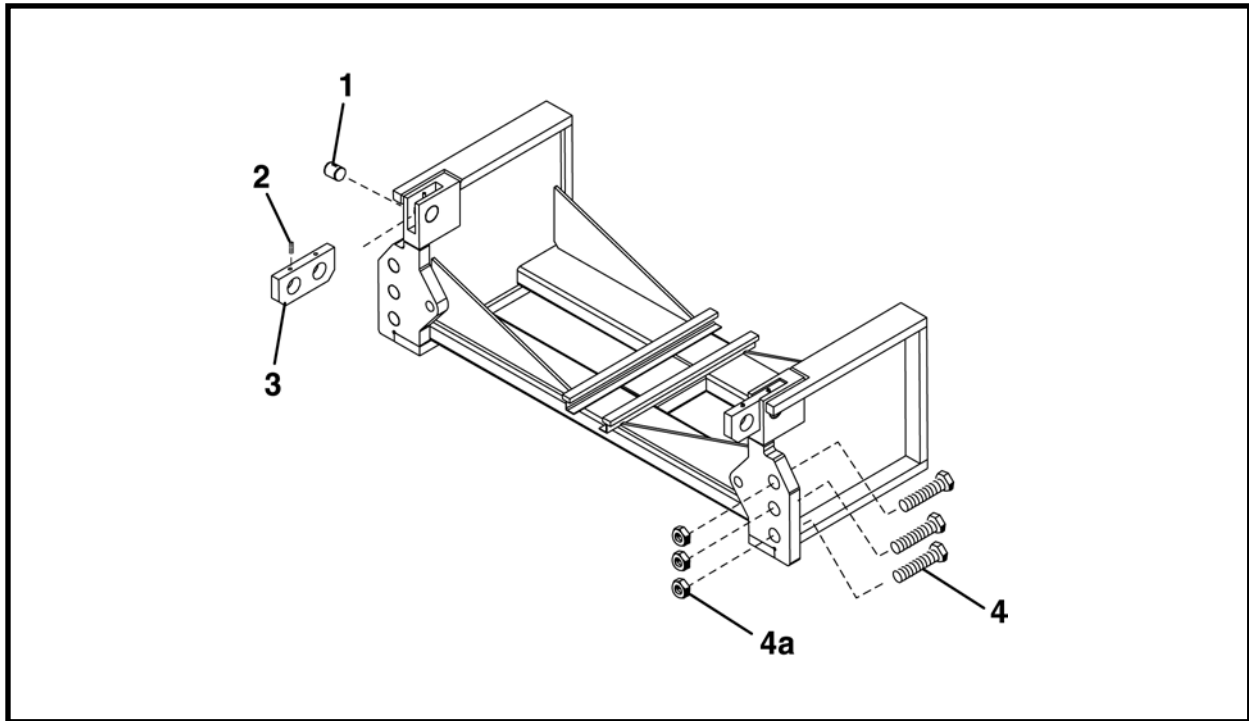


ITEM	QTY	PART NO.	DESCRIPTION
0	1	F08297F00	SKID RISER ASSEMBLY
1	1	008257A	SKID RISER
2	4	008227P	BAR, Mounting
3	8	P0045-012	WASHER, Lock 3/4
4	8	P0001-12-028	BOLT, 3/4 UNC x 7

Note:

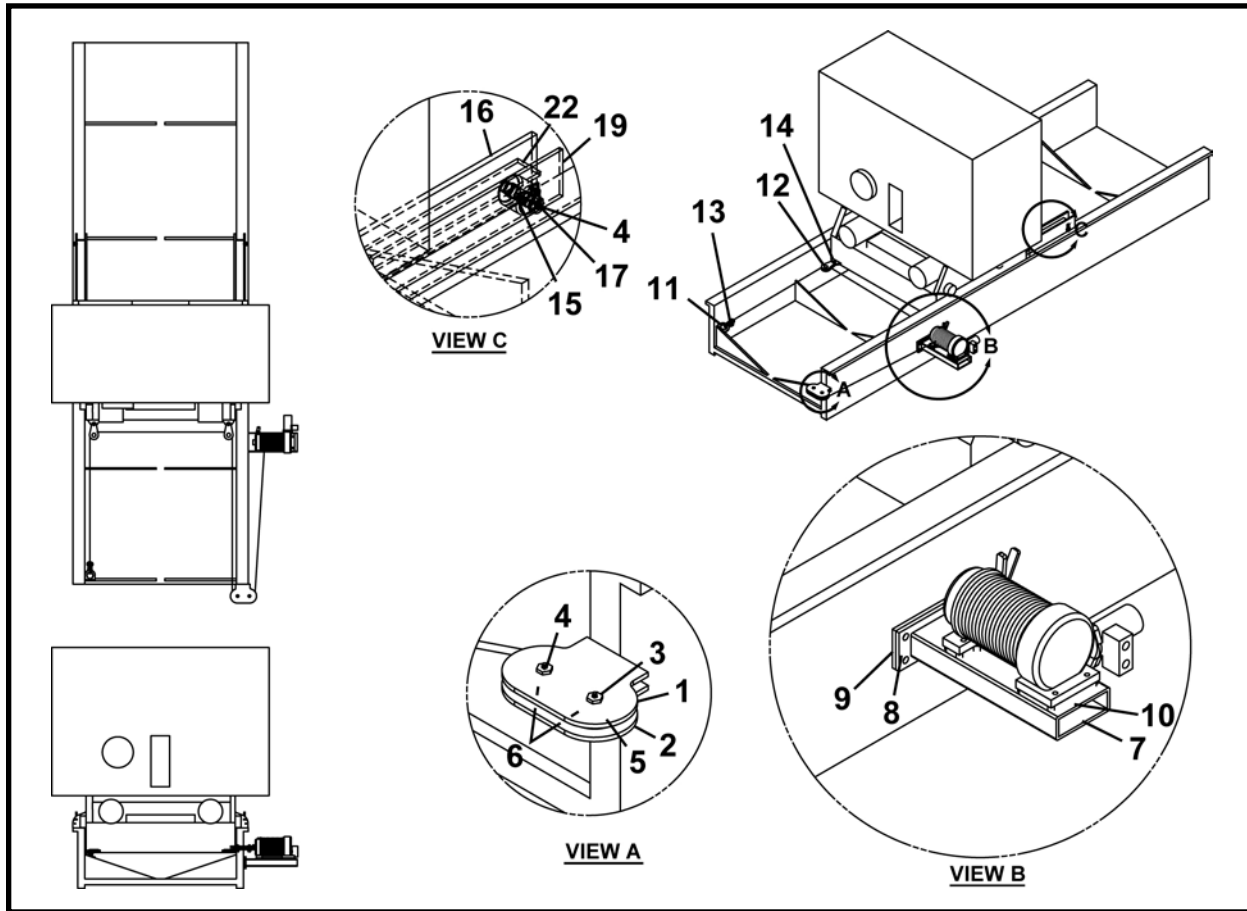
The F08297F00 skid riser (designed for the F17007F00 22.5 Skid) is used for the 360, 48SC and 420 Tunnel Boring Machines to support the smaller pipes for thrusting near the 5000 Pump Unit cylinder centers. The yokes for these TBMs are designed to work with this skid riser.

SKID EXTENSION, F17006F00



ITEM	QTY	PART NO.	DESCRIPTION
0	1	F17006F00	SKID EXTENSION, 2.5 Foot
1	2	017050P00	SKID SPLIT PIN
2	2	P0033-06-016	SET SCREW, Socket 3/8-16 UNC x 1
3	2	017048P00	SKID SPLIT BAR
4	6	006911A00	SKID BOLT ASSEMBLY (includes 4a)
4a	6	P0005-32-000	NUT, Hardened

SKID WINCH DRIVE ASSEMBLY, 022855A



ITEM	QTY	PART NO.	DESCRIPTION
0	1	022855A	SKID WINCH DRIVE ASSEMBLY
1	1	022859P	PLATE, Sheave Support Top
2	1	022860P	PLATE, Sheave Support Bottom
3	2	002124P00	BOLT, Conveyor Lift
4	4	P0063-001	FITTING, Grease
5	2	025323A	PULLEY ASSEMBLY
6	2	P0007-12-000	NUT, Jam 3/4 UNC
7	1	022856P	TUBE, Winch Support
8	1	022857P	PLATE
9	1	022858P	PLATE, Winch Support Bolt
10	1	A12998P	PLATE, Winch Mount
11	1	003529P02	LIFT EYE
12	2	P0098-062	BLOCK, Cross Bolt Snatch
13	1	P0091-002	SHACKLE
14	2	A12997P0	MOUNT, Shackle
15	2	025802A00	WHEEL
16	2	022863P	PLATE, Inner
17	2	005363P00	SHAFT, Roller
18*	2	005364P00	BAR
19	2	022862P	PLATE, Outer
20*	2	P0001-06-004	BOLT, 3/8 UNC x 1
21*	4	P0040-020	WASHER, Hardened 1-1/4
22	2	022864P	PLATE, Spacer

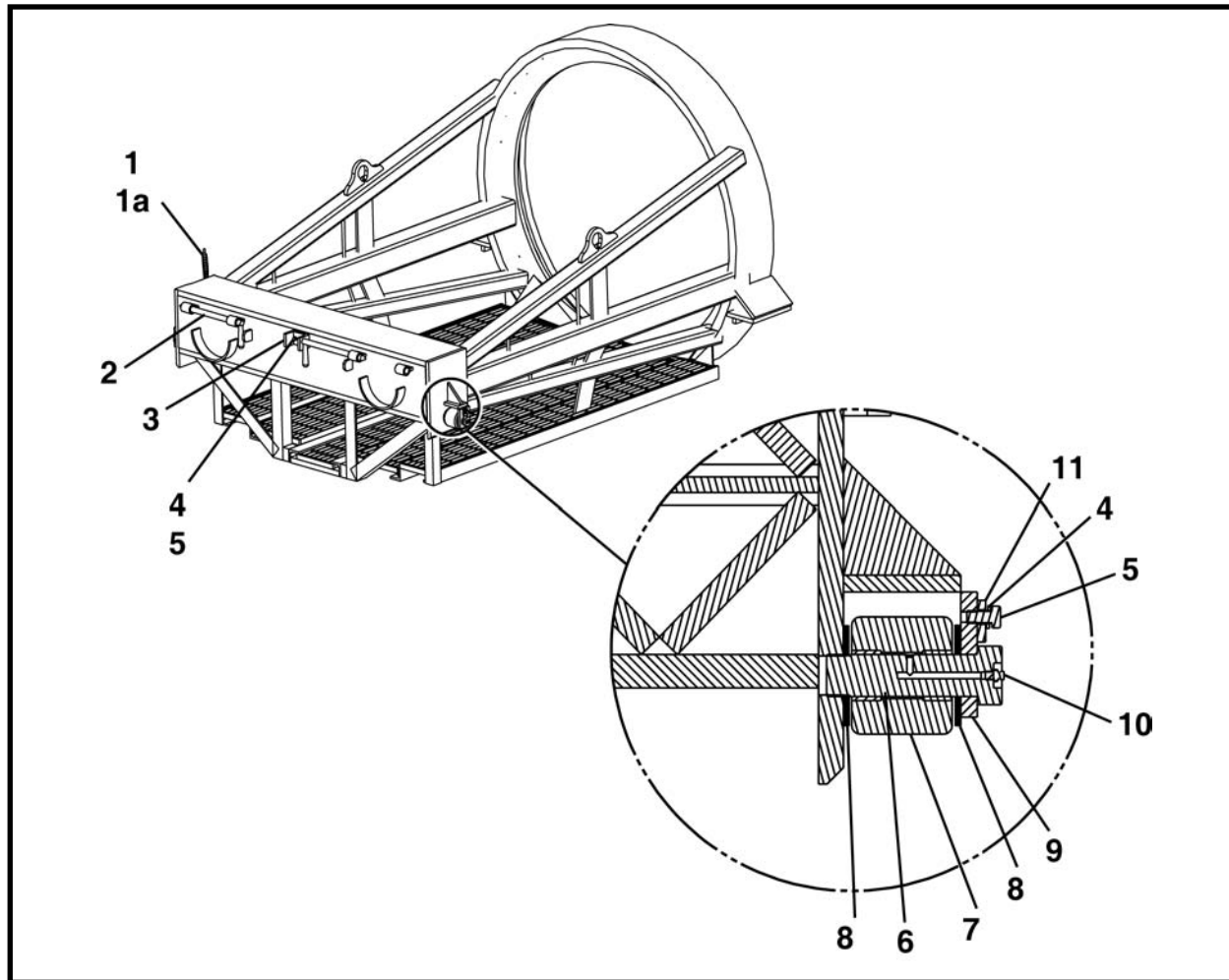
* Not Shown

NOTE:

The skid winch drive is used on uphill drives with more than a 4% grade.

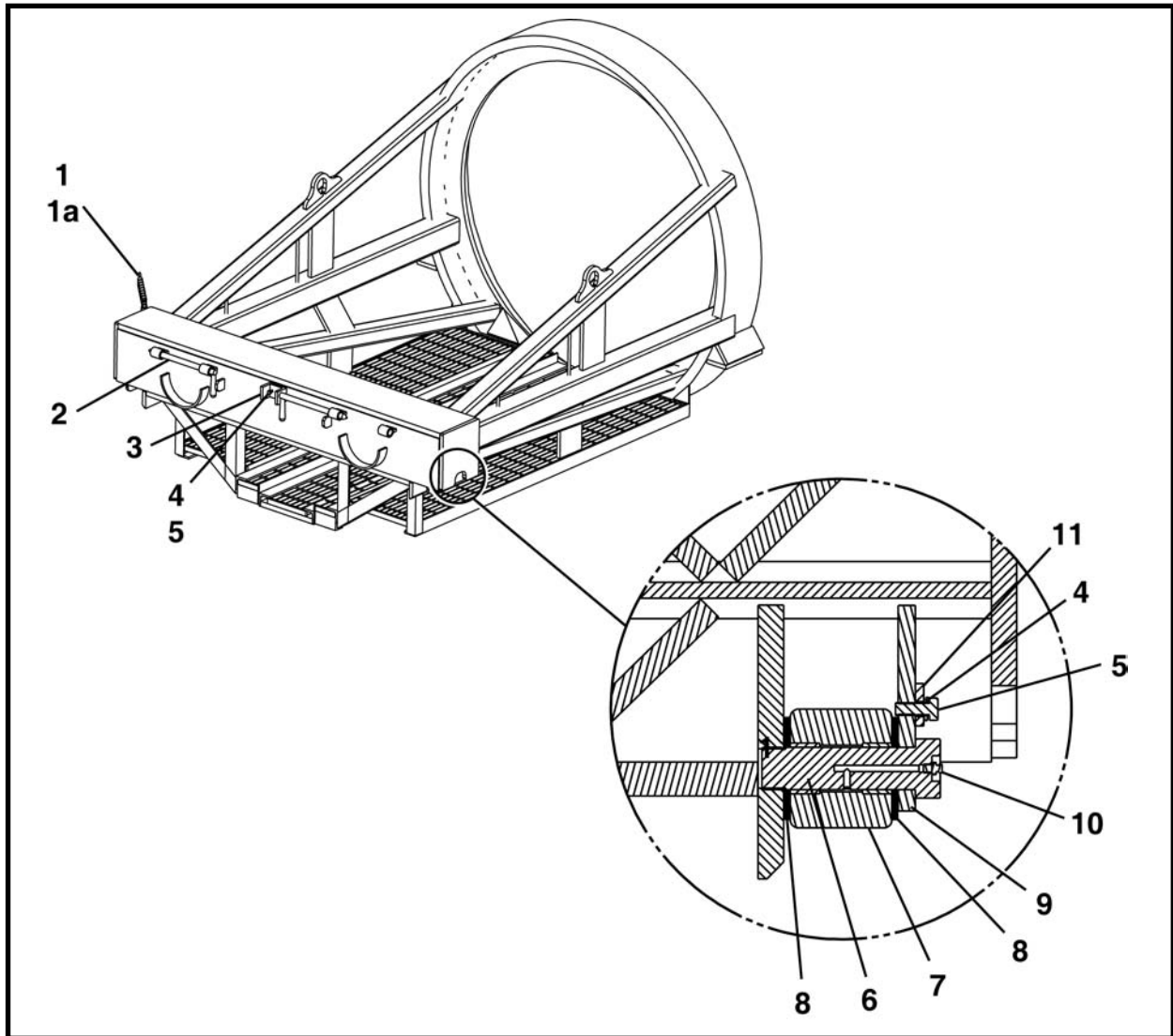
NOTES

YOKE ASSEMBLY **360 - 420/48SC - 480 - 540**



ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	F05646F00	360 DUAL RAM YOKE, 44 OD
0.2	1	F05647F00	420/48SC DUAL RAM YOKE, 52.5 OD
0.3	1	F05648F00	480 DUAL RAM YOKE, 58 OD
0.4	1	F29200F00	480 EXTENDED DUAL RAM YOKE, 58 OD
0.5	1	F05649F00	540 DUAL RAM YOKE, 65 OD
0.6	1	F05655F00	540 EXTENDED DUAL RAM YOKE, 65 OD
1	1	002027A00	7 STAGE LINE HOLDER (includes 1a)
1a	1	002030P00	PIN, Line Holder
2	2	001795A00	PIN, Yoke Retaining
3	1	005360P00	RAM RETAINING PIN STOP
4	4	P0045-006	WASHER, Lock 3/8
5	4	P0001-06-003	BOLT, 3/8-16 UNC x 3/4
6	2	005363P00	SHAFT, Roller
7	2	025802A00	WHEEL, Yoke
8	4	P0040-020	WASHER, Flat 1-1/4
9	2	005362P00	PLATE, Roller Shaft
10	2	P0063-001	FITTING, Grease
11	2	005364P00	BAR

YOKE ASSEMBLY **600 - 660 - 720 - 780 - 840**



ITEM	QTY	PART NO.	DESCRIPTION
0.1	1	F05650F00	600 DUAL RAM YOKE, 72 OD
0.2	1	F29225F	600 EXTENDED DUAL RAM YOKE, 72 OD
0.3	1	F05478F00	660 DUAL RAM YOKE, 79 OD
0.4	1	F29375F	660 EXTENDED DUAL RAM YOKE, 79 OD
0.4	1	F05651F00	720 DUAL RAM YOKE, 86 OD
0.5	1	F29235F00	720 EXTENDED DUAL RAM YOKE, 86 OD
0.6	1	F05652F00	780 DUAL RAM YOKE, 93 OD
0.7	1	F05653F00	840 EXTENDED DUAL RAM YOKE, 100 OD
1	1	002027A00	7 STAGE LINE HOLDER (includes 1a)
1a	1	002030P00	PIN, Line Holder
2	2	001795A00	PIN, Yoke Retaining
3	1	005360P00	RAM RETAINING PIN STOP
4	4	P0045-006	WASHER, Lock 3/8
5	4	P0001-06-004	BOLT, 3/8-16 UNC x 1
6	2	005363P00	SHAFT, Roller
7	2	025802A00	WHEEL, Yoke
8	4	P0040-020	WASHER, Flat 1-1/4
9	2	007339P02	PLATE, Roller Shaft
10	2	P0063-001	FITTING, Grease
11	2	005364P00	BAR

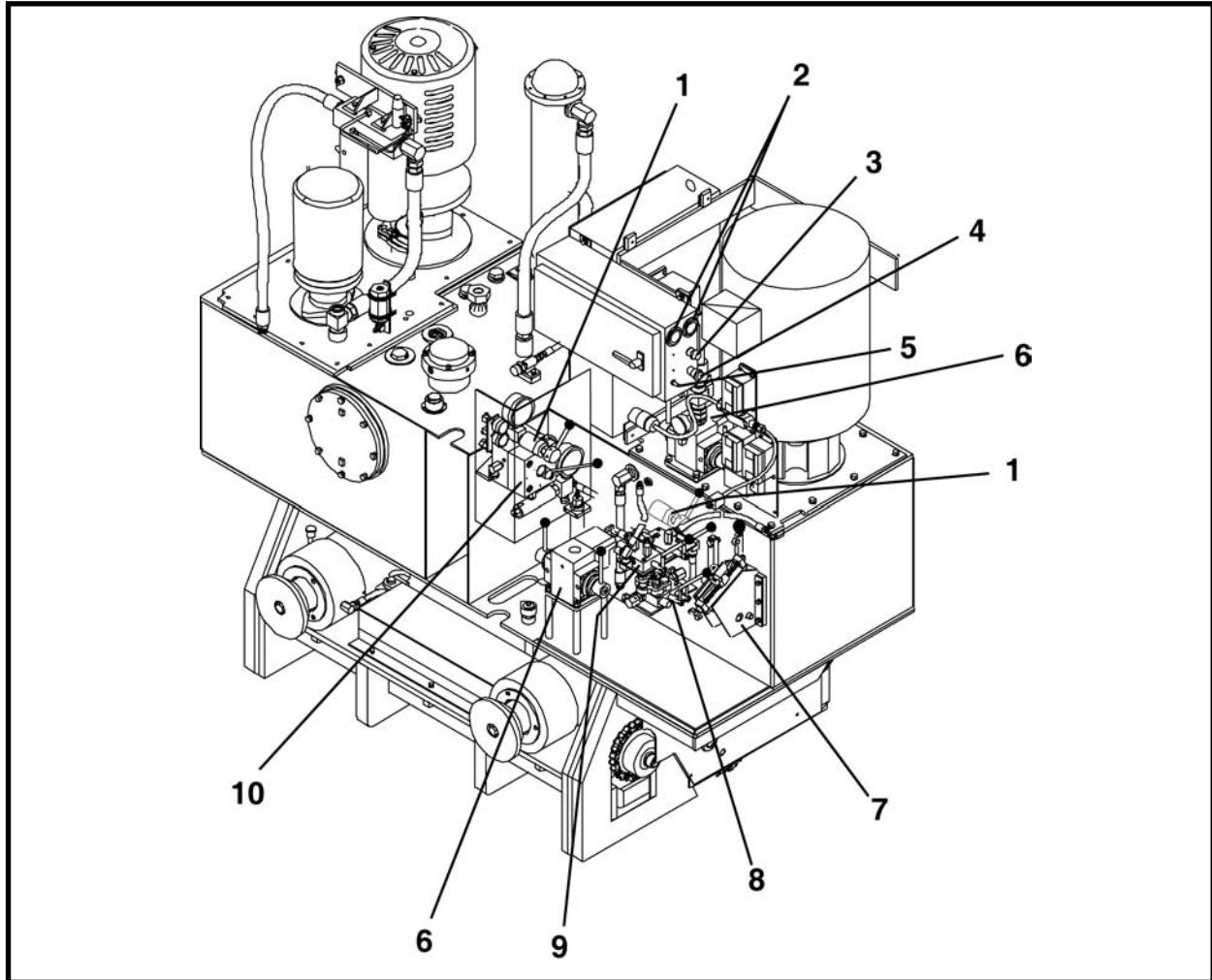
NOTES



Operator Controls

5000 Pump Unit	
Operator Controls (General Layout)	2
Cable Stroker Control, 007406A01	4

OPERATOR CONTROLS **5000 PUMP UNIT**



ITEM	QTY	PART NO.	DESCRIPTION
1*	2	004332A00	RELIEF VALVE ASSEMBLY
2	2	P0310-260	HOURLMETER
3	1	P0056-055	SWITCH, Light (Low Oil)
4	1	-	E-STOP (Includes items 4a - 4d)
4a	1	P0310-420F	E-STOP PUSH BUTTON
4b	1	P0056-120B	POWER MODULE
4c	1	P0056-121F	CONTACT
4d	1	P0056-122F	CONTACT BLOCK
5	1	-	LIGHT SWITCH (Includes items 5a - 5b)
5a	1	P0056-010	SWITCH, Toggle Boot
5b	1	P0056-009	SWITCH, Toggle
6.1*	2	002946A00	DUAL VALVE ASSEMBLY (SN PU5050-27 thru 49)
6.2*	2	002944A00	DUAL VALVE ASSEMBLY (SN PU5050-50 & After)
7***	1	007406A01	CABLE STROKER CONTROL
8**	1	016260A	CYLINDER VALVE ASSEMBLY
9**	1	016259A	DRIVE VALVE ASSEMBLY
10*	1	004604A00	SHEAR RELIEF VALVE

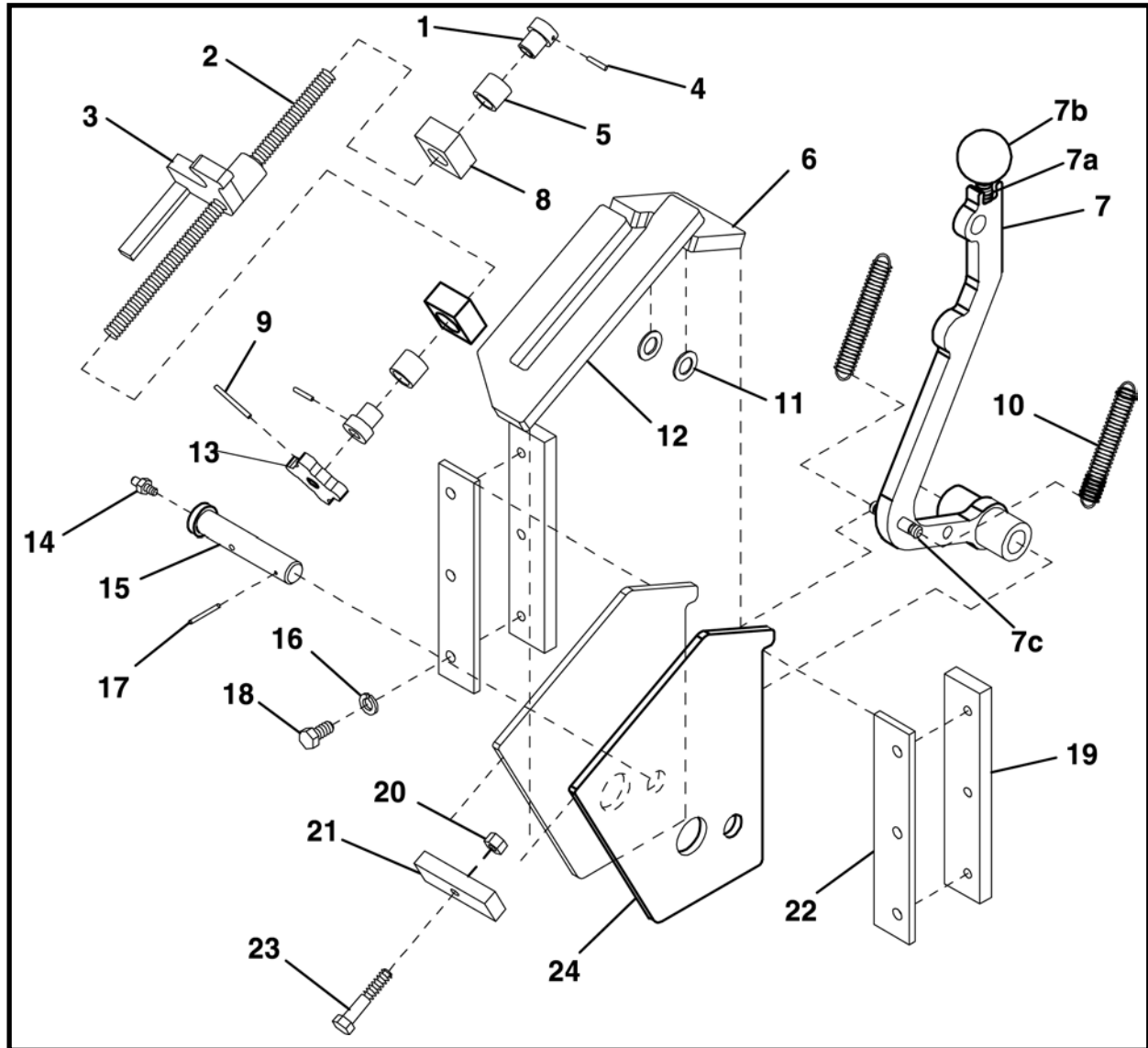
* Refer to Section 7, Valves for parts breakdown.

** Refer to Section 6, Hydraulics for parts breakdown.

*** Refer to this section for parts breakdown.

NOTES

CABLE STROKER CONTROL, 007406A01
5000 PUMP UNIT



ITEM	QTY	PART NO.	DESCRIPTION
0	1	007406A01	CABLE STROKER CONTROL
1	2	008170P00	BUSHING
2	1	008169P00	ROD
3	1	008160A00	WELDMENT, Stop
4	2	P0049-038	PIN, Roll 1/8 x 1/2
5	2	008171P00	BUSHING
6	1	008165P00	PLATE
7	1	008155A00	HANDLE ASSEMBLY (includes items 7a - 7c)
7a	1	008157P00	ROD, Threaded
7b	1	P0059-009	KNOB
7c	1	008159P00	ROD
8	2	008172P00	BAR
9	1	P0049-046	PIN, Roll 1/8 x 1-1/2
10	2	P0070-004	SPRING
11	2	P0040-008	WASHER, Hardened Flat 1/2
12	1	008164P00	PLATE

CABLE STROKER CONTROL, 007406A01
5000 PUMP UNIT

ITEM	QTY	PART NO.	DESCRIPTION
13	1	008173P00	PLATE
14	1	P0063-001	FITTING, Grease
15	1	008168P00	ROD
16	6	P0045-006	WASHER, Lock 3/8
17	1	P0048-026	PIN, Cotter 1/8 x 1.25
18	6	P0001-06-003	BOLT, Hex 3/8 UNC x .75
19	2	008167P00	BAR, Mounting
20	1	P0003-06-000	NUT, 3/8 UNC
21	1	008451P00	BAR
22	2	008166P00	BAR, Mounting
23	1	P0001-06-008	BOLT, Hex 3/8 UNC x 2
24	2	008163P00	PLATE

NOTES



Electrical

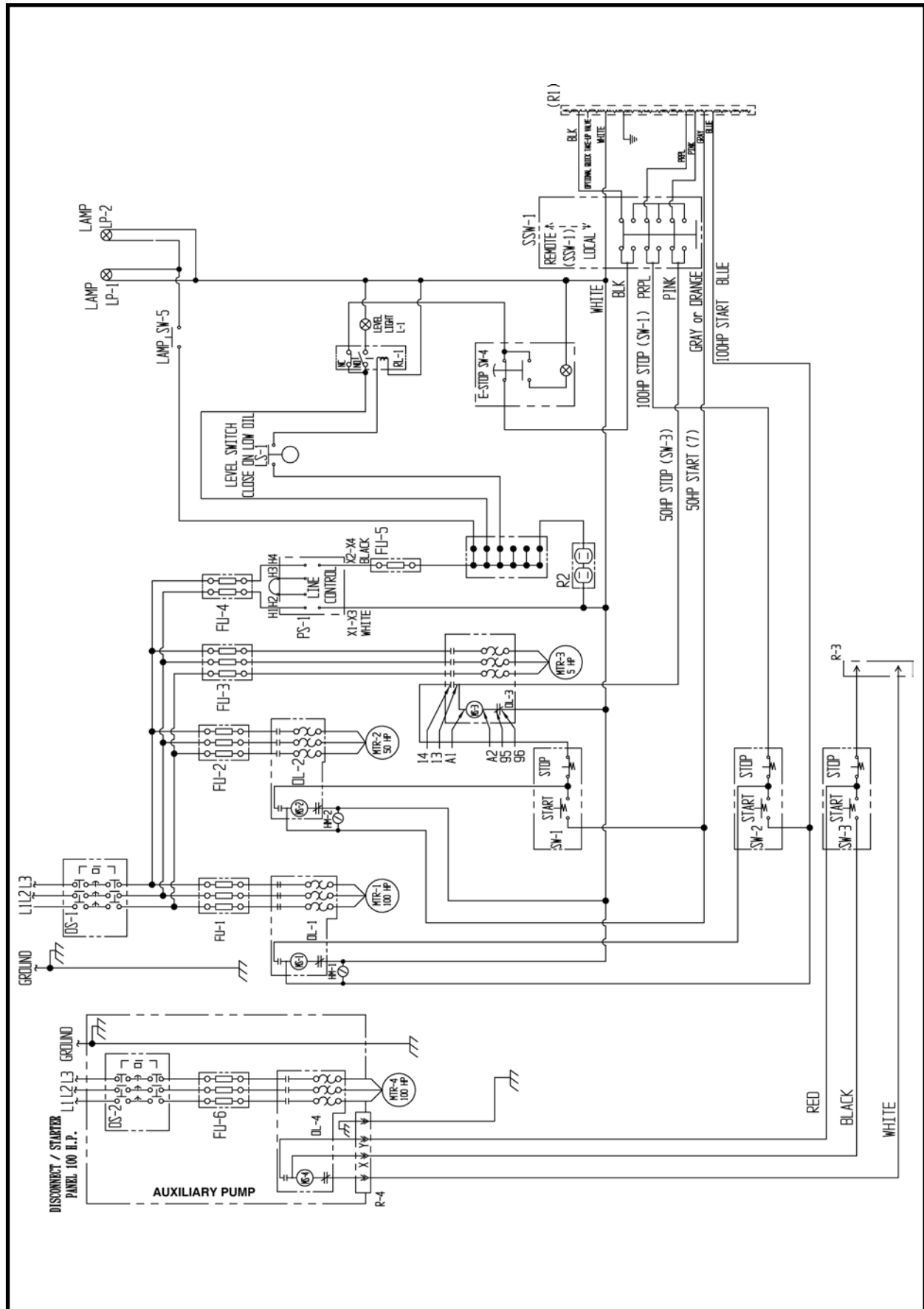
5000 Pump Unit

Electrical Schematic, 008206A01	2
Low Pressure Sub-Assembly	
Control Panel Enclosure Assembly, 016272A	4
Control Panel Assembly, 005331A01	6
Disconnect Switch Enclosure Assembly, 016270A	8
Start/Stop Switch Plate Assembly, 016248A	10
Lights	11

Auxiliary Pump Unit

Electrical Schematic, 007952A00	12
Small Enclosure Assembly, 016290A	13
Large Enclosure Assembly, 016291A	14

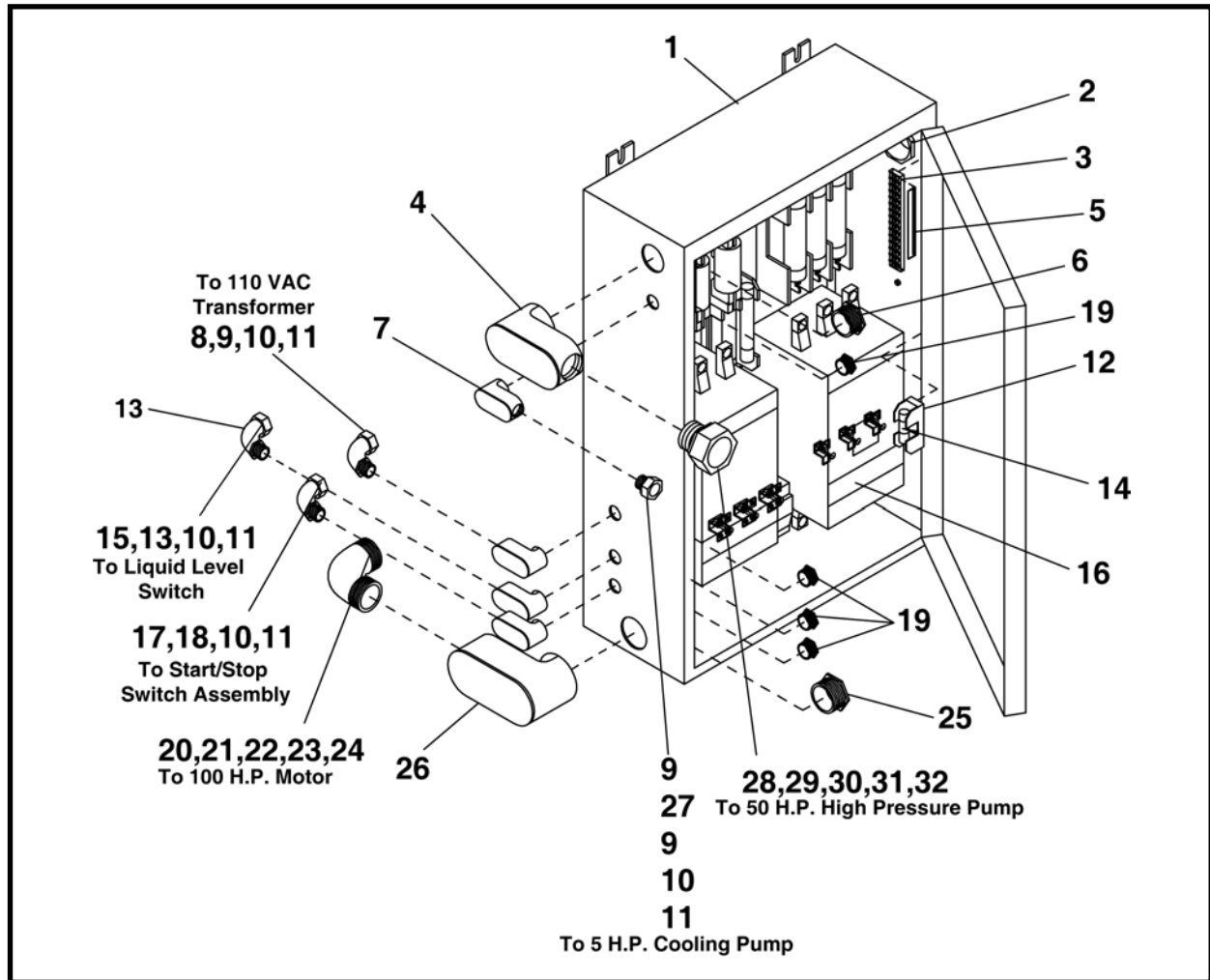
ELECTRICAL SCHEMATIC, 008206A01 **5000 PUMP UNIT**



ELECTRICAL SCHEMATIC, 008206A01**5000 PUMP UNIT**

ITEM	QTY	PART NO.	DESCRIPTION
DS-1,2	REF	P0310-162	DISCONNECT SWITCH/BREAKER
FU-1,6	REF	P0310-772	175 AMP FUSE
FU-2	REF	P0310-150	80 AMP FUSE
FU-3	REF	P0310-471	15 AMP FUSE
FU-4	REF	P0310-103	6-1/4 AMP FUSE
FU-5	REF	P0310-104	15 AMP FUSE
HM-1,2	REF	P0310-260	HOUR METER
L-1	REF	P0056-055	INDICATOR LAMP
LP-1,2	REF	P0053-018	LAMP
LS-1	REF	P0056-039	LEVEL SENSOR
MS-1,4	REF	P0310-210	MOTOR STARTER
MS-2	REF	P0310-211	MOTOR STARTER
MS-3	REF	P0310-599A	MOTOR STARTER
MTR-1,4	REF	P0310-163	100 HP ELECTRIC MOTOR
MTR-2	REF	P0310-136	50 HP ELECTRIC MOTOR
MTR-3	REF	P0310-599	5 HP ELECTRIC MOTOR
OL-1,4	REF	P0310-165	OVERLOAD HEATER
OL-2	REF	P0310-116	OVERLOAD HEATER
OL-3	REF	P0310-399D	OVERLOAD HEATER
PS-1	REF	P0310-160	TRANSFORMER (SN PU5050-27 Thru 50)
PS-1	REF	P0310-891	TRANSFORMER (SN PU5050-51 & After)
R-1	REF	P0313-019	RECEPTACLE
R-2	REF	P0310-131	RECEPTACLE
R-3	REF	P0313-019	RECEPTACLE
R-4	REF	P0313-063	RECEPTACLE
RL-1	REF	P0056-089	RELAY
SSW-1	REF	P0056-044	SELECTOR SWITCH
SW-1,2,3	REF	P0310-132	START/STOP SWITCH
SW-4A	REF	P0310-420	ILLUMINATED PUSH BUTTON
SW-4B	REF	P0056-120	PILOT LAMP
SW-4C	REF	P0056-121	NORMALLY OPEN CONTACT
SW-4D	REF	P0056-122	NORMALLY CLOSED CONTACT

CONTROL PANEL ENCLOSURE ASSEMBLY, 016272A **5000 PUMP UNIT**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	016272A	CONTROL PANEL ENCLOSURE ASSEMBLY
1	1	004925A00	CONTROL PANEL ENCLOSURE
2	1	P0311-052	NIPPLE, 2
3	1	P0310-432	BARRIER STRIP, 15 Position
4	1	P0311-004	CONNECTOR, Conduit 1-1/4
5	1	P0310-433	JUMPER STRIP, 15 Position
6	1	P0311-016	NIPPLE, 1-1/4
7	4	P0311-001	CONNECTOR, Conduit 1/2
8	30 LI	P0312-008	CONDUIT, 1/2
9	4	P0311-005	CONNECTOR, 1/2" Straight
10	4	P0311-018	NUT, Lock 1/2
11	4	P0311-032	BUSHING, Insulating 1/2
12	1	P0310-112	FUSE BLOCK
13	3	P0311-009	CONNECTOR, 1/2 90 Deg
14	1	P0310-480	FUSE, 250VAC 15 Amp Time Delay
15	25 LI	P0312-008	CONDUIT, 1/2
16*	1	005331A01	CONTROL PANEL ASSEMBLY
17	28 LI	P0312-008	CONDUIT, 1/2
18	1	P0311-050	CONNECTOR, 1/2 45 Deg
19	4	P0311-013	NIPPLE, 1/2

CONTROL PANEL ENCLOSURE ASSEMBLY, 016272A

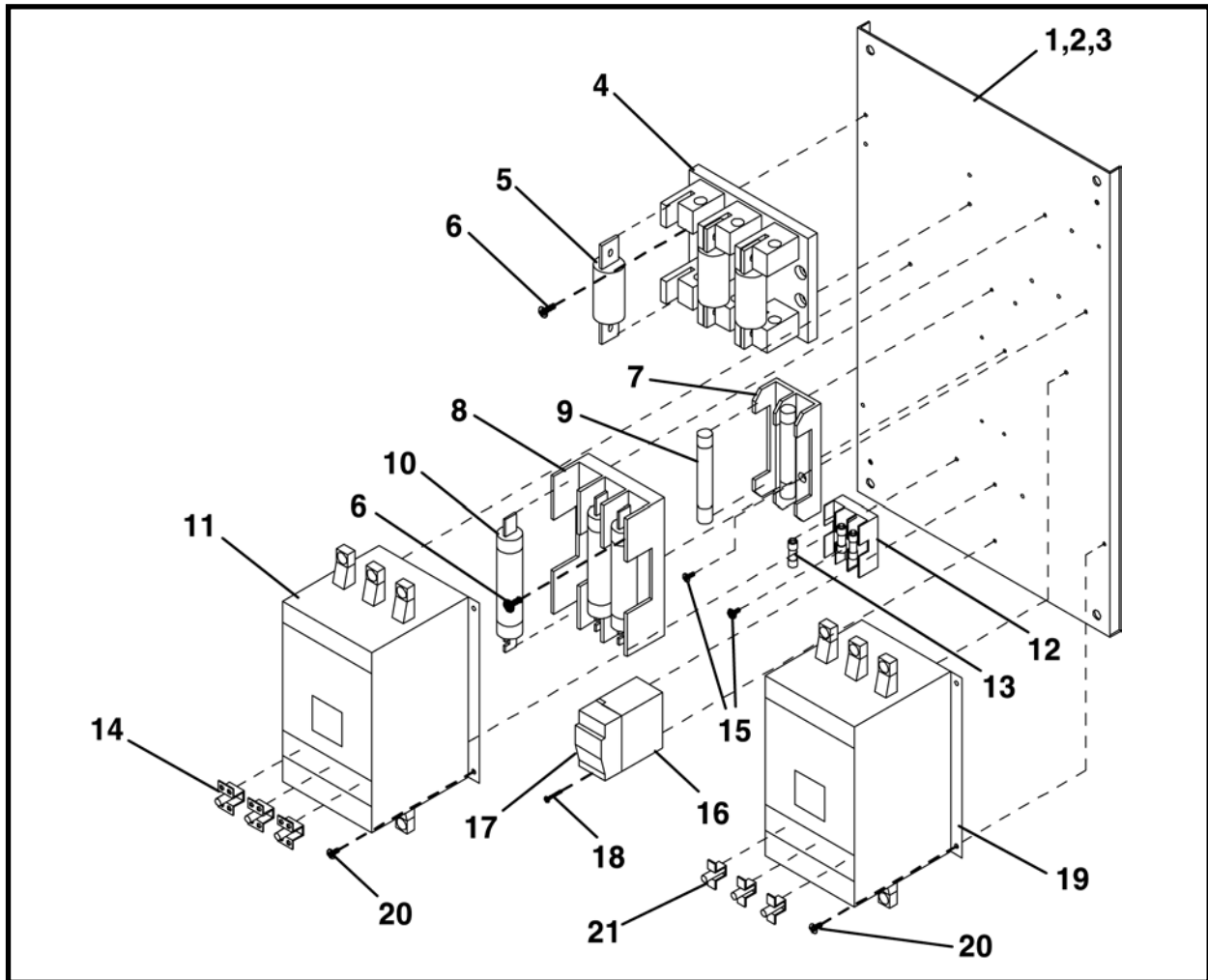
5000 PUMP UNIT

ITEM	QTY	PART NO.	DESCRIPTION
20	1	P0311-045	CONNECTOR, 1-1/2 90 Deg
21	20 LI	P0312-024	CONDUIT, 1-1/2
22	1	P0311-044	CONNECTOR, 1-1/2 Straight
23	1	P0311-124	BUSHING, Reducing 2 - 1-1/2
24	2	P0311-049	HUB, SCREW-TITE
25	1	P0311-046	NIPPLE, Chase 1-1/2
26	1	P0311-043	CONNECTOR, Conduit 1-1/2
27	108 LI	P0312-008	CONDUIT, 1/2
28	1	P0311-008	CONNECTOR, Straight 1-1/4
29	108 LI	P0312-020	CONDUIT, 1-1/4
30	1	P0311-055	BUSHING, Reducing 2 - 1-1/4
31	1	P0055-002	RING TERMINAL #6

* Refer to this section for parts breakdown.

LI - Linear Inch

CONTROL PANEL ASSEMBLY, 005331A01
5000 PUMP UNIT

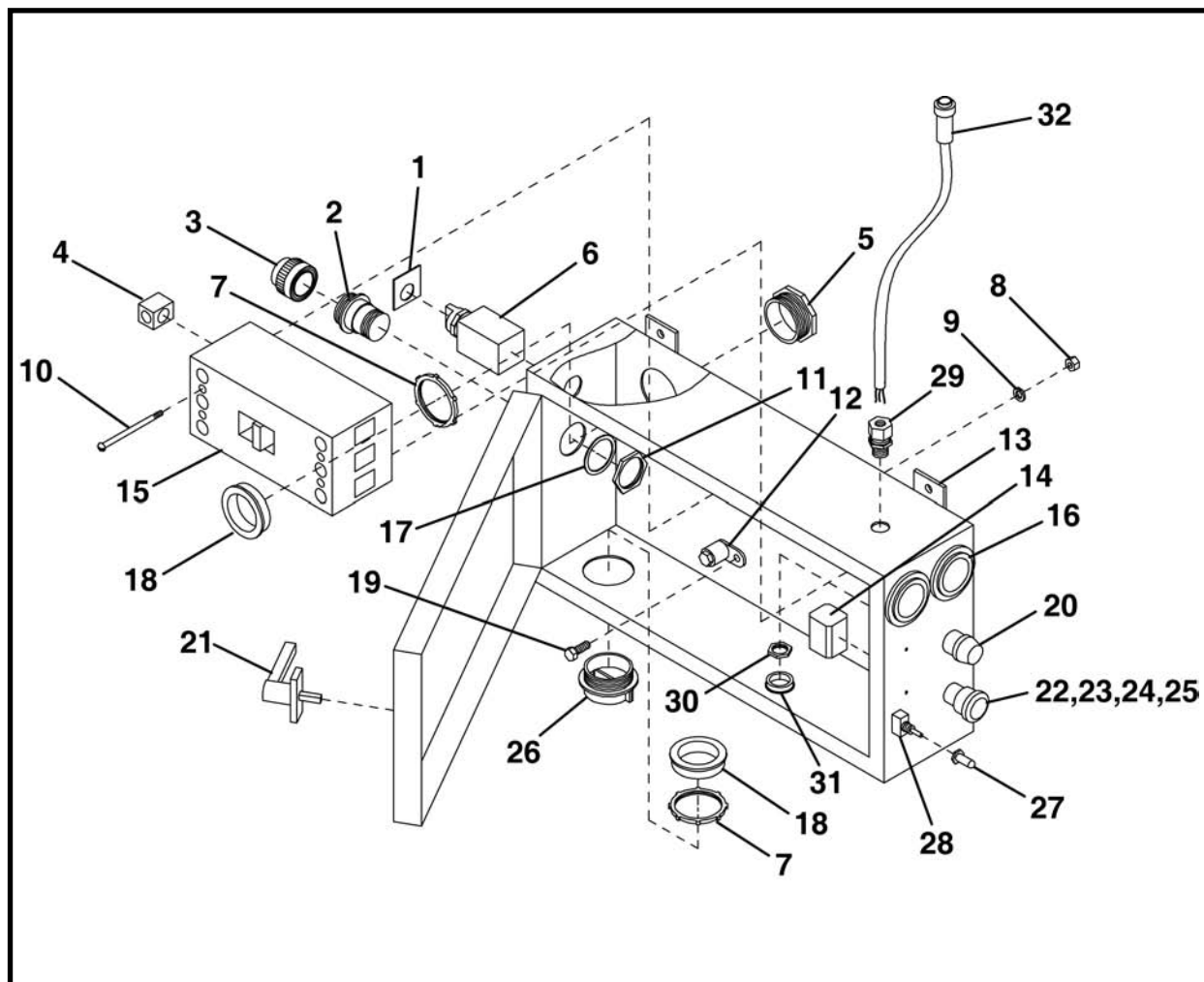


ITEM	QTY	PART NO.	DESCRIPTION
0	1	005331A01	CONTROL PANEL ASSEMBLY
1	1	016271P	CONTROL PANEL
2	180 LI	P0054-028	CABLE, Welding
3	432 LI	P0054-004	CABLE, Copper
4	1	P0310-212	FUSE BLOCK
5	3	P0310-772	FUSE, 175 Amp
6	10	P0017-14-204	SCREW, Round Head Machine 1/4 UNC x .75
7	1	P0310-111	FUSE BLOCK
8	1	P0310-108	FUSE BLOCK
9	2	P0310-103	FUSE, 6 Amp
10	3	P0310-150	FUSE, 80 Amp
11	1	P0310-210	STARTER, 75/100 HP
12	1	P0310-473	FUSE BLOCK
13	3	P0310-471	FUSE, 15 AMP
14	3	P0310-165	HEATER
15	6	P0017-12-244	SCREW, Round Head Machine 12-24 UNC x .5
16	1	P0310-399E	RELAY, Overload
17	1	P0310-599A	STARTER, 5 HP
18	2	P0017-08-326	SCREW, Slotted Head Machine 8 UNC x 1
19	1	P0310-211	STARTER, 50 HP
20	6	P0020-14-202	SCREW, Round Head Machine 1/4 UNC x .5
21	3	P0310-116	HEATER

LI - Linear Inch

NOTES

DISCONNECT SWITCH ENCLOSURE ASSEMBLY, 016270A
5000 PUMP UNIT

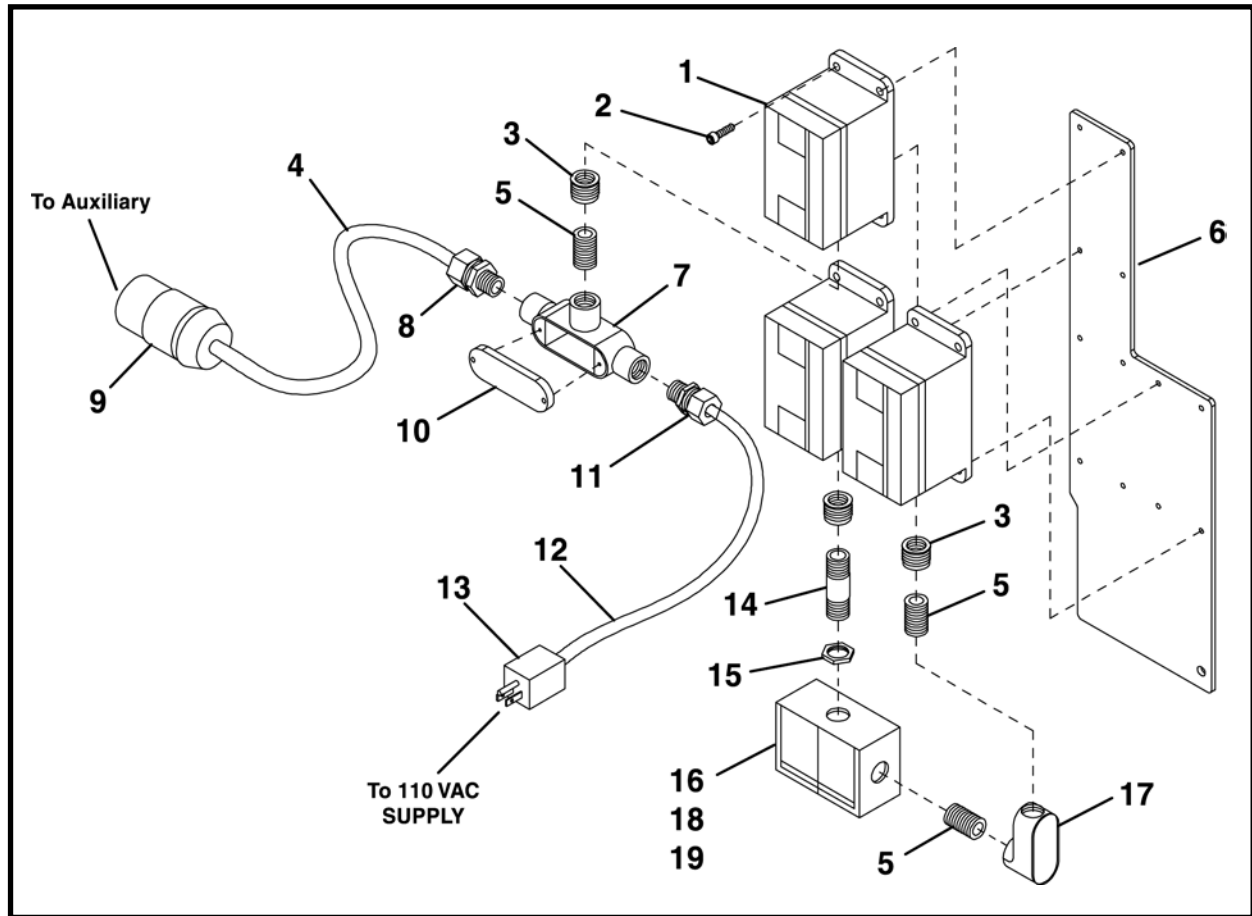


ITEM	QTY	PART NO.	DESCRIPTION
0	1	016270A	DISCONNECT SWITCH ENCLOSURE ASSEMBLY
1	1	P0056-045	SWITCH PLATE
2	1	P0313-019	RECEPTACLE
3	1	P0313-018	CAPS
4	6	P0310-167	LUG
5	1	P0311-052	NIPPLE, 2
6	1	P0056-044	SWITCH
7	4	P0311-054	NUT, Lock 2
8	1	P0027-006	NUT, Brass 3/8 UNC
9	1	P0045-006B	WASHER, Brass Lock 3/8
10	4	P0017-14-213	SCREW, Round Head Machine 1/4 UNC x 4
11	1	P0313-009	NUT
12	1	P0311-036	CLAMP, Ground
13	1	006182P01	DISCONNECT SWITCH ENCLOSURE
14	1	P0056-089	RELAY
15	1	P0310-162	BREAKER
16	2	P0310-260	HOURLMETER
17	1	P0313-010	WASHER
18	2	P0311-053	BUSHING, Insulating 2
19	1	P0027-030	BOLT, Brass 3/8 UNC x 1

DISCONNECT SWITCH ENCLOSURE ASSEMBLY, 016270A**5000 PUMP UNIT**

ITEM	QTY	PART NO.	DESCRIPTION
20	1	P0056-055	SWITCH, Light (Low Oil)
21	1	P0310-161	KIT, Latch
22	1	P0310-420F	E-STOP PUSH BUTTON
23	1	P0056-120B	POWER MODULE
24	1	P0056-121F	CONTACT
25	1	P0056-122F	CONTACT BLOCK
26	1	P0311-039	CONNECTOR, 2
27	1	P0056-010	SWITCH, Toggle Boot
28	1	P0056-009	SWITCH, Toggle
29	1	P0311-040	CONNECTOR, Strain Relief
30	1	P0311-018	NUT, Lock 1/2
31	1	P0311-032	BUSHING, Insulating 1/2
32	1	P0054-060	CONNECTOR, Mini-Plug

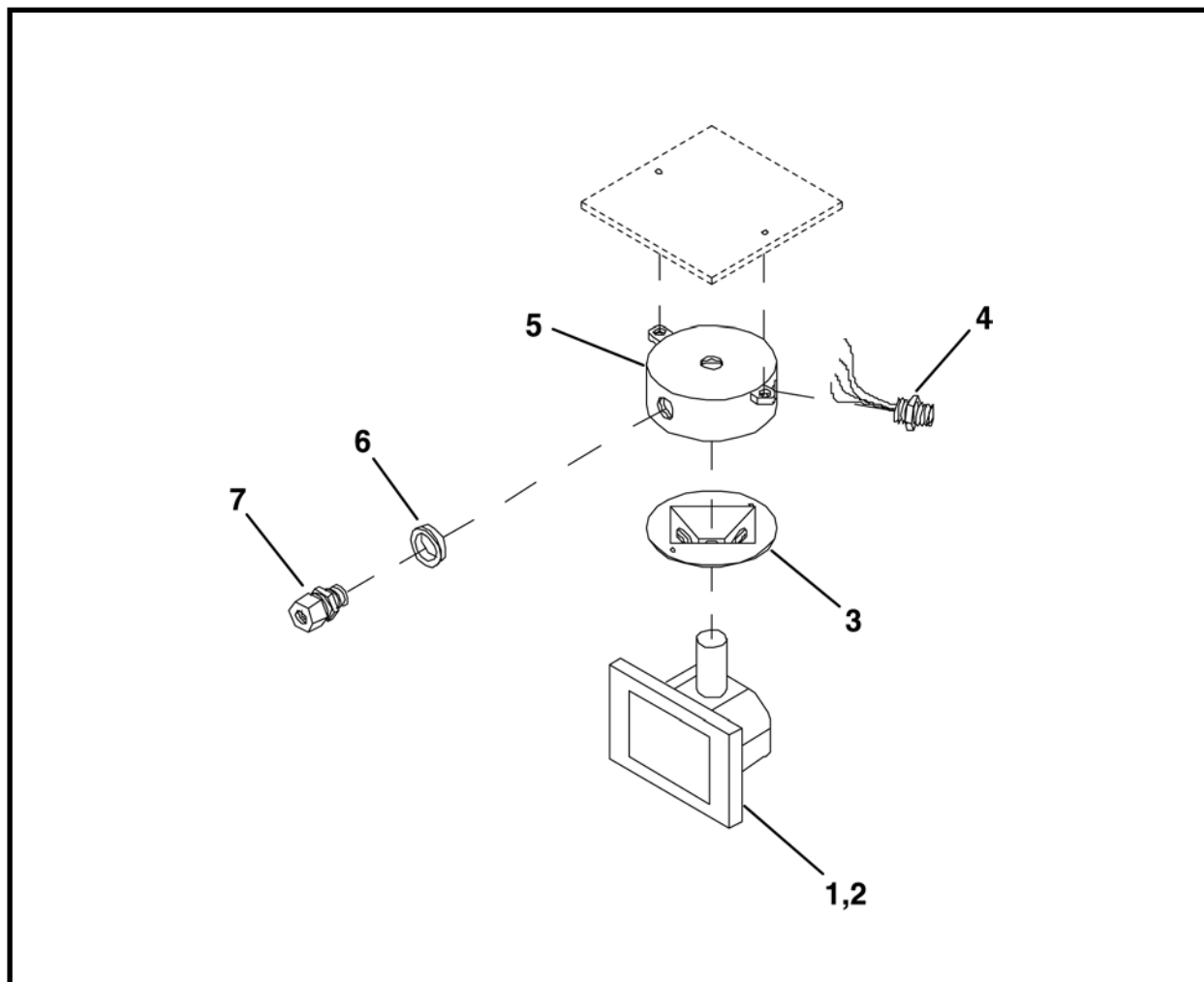
START/STOP SWITCH PANEL ASSEMBLY, 016248A **5000 PUMP UNIT**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	016248A	START/STOP SWITCH PANEL ASSEMBLY
1	3	P0310-132	SWITCH, Start/Stop
2	12	P0020-14-204	SCREW, Truss Head 3/4
3	3	P0311-017	BUSHING, Reducer 3/4 - 1/2
4	96 LI	P0054-042	CABLE
5	3	P0402-003	NIPPLE, Close 1/2
6	1	006241P00	PLATE
7	1	P0310-157	CONDUIT, 3 Way
8	1	P0311-051	CONNECTOR, Strain Relief 5/8
9	1	P0311-063	CONNECTOR, Ground 4-Wire
10	1	P0310-158	COVER
11	1	P0311-040	CONNECTOR, Strain Relief
12	36 LI	P0054-022	WIRE, 3 Connector
13	1	P0311-041	PLUG, Grounding 3 Wire
14	1	P0405-003	NIPPLE
15	1	P0311-018	NUT, Lock 1/2
16	1	006244P00	RECEPTACLE BOX
17	1	P0311-001	CONNECTOR, Conduit 1/2
18	1	P0310-131	RECEPTACLE
19	1	P0310-106	PLATE, Flip Lid

LI - Linear Inch

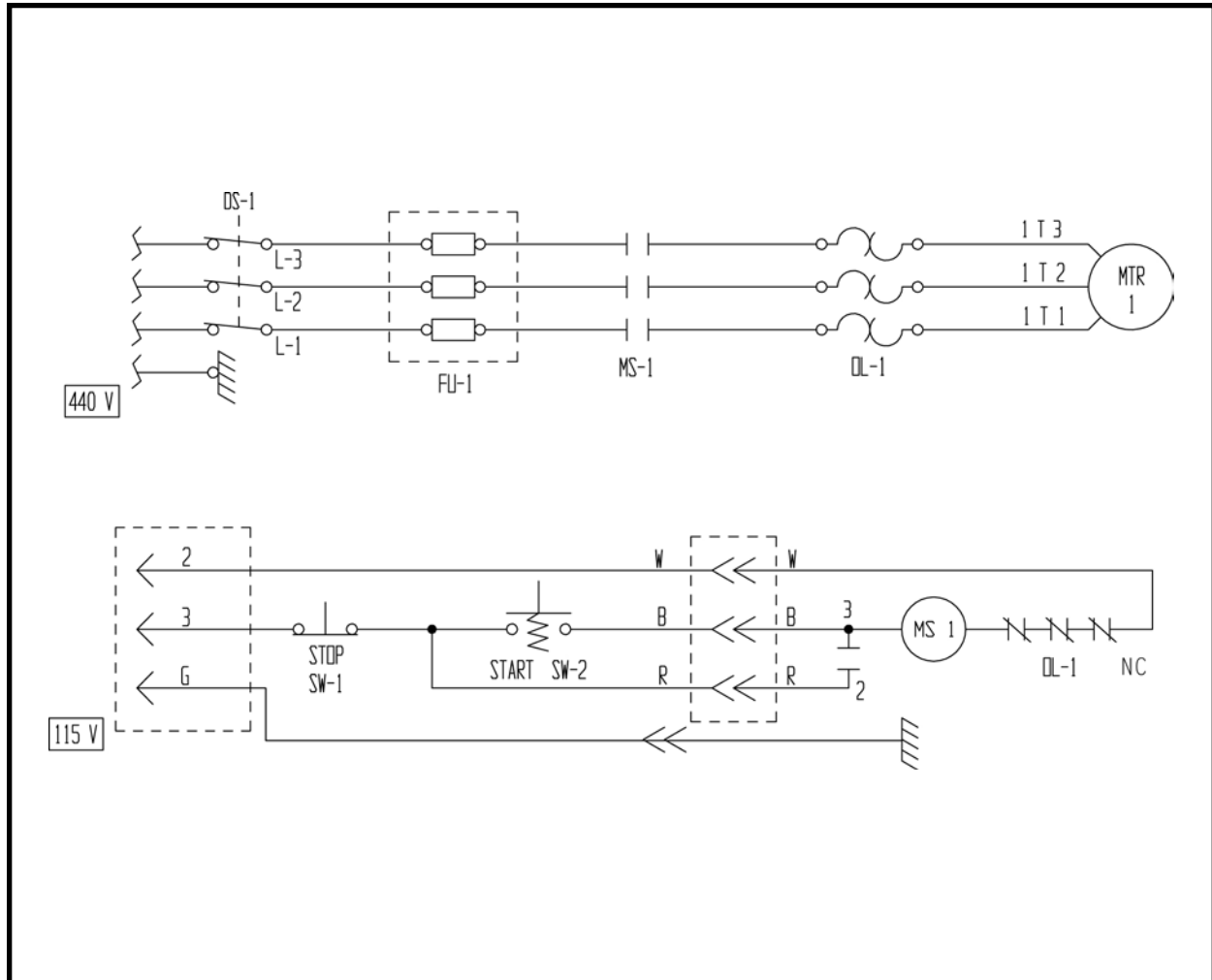
LIGHTS **5000 PUMP UNIT**



ITEM	QTY	PART NO.	DESCRIPTION
1	2	P0053-018	LIGHT, Halogen Mini Flood
2	108 LI	P0054-021	WIRE, 16 GA (not shown)
3	2	P0310-252	COVER, Box
4	1	P0054-069	RECEPTACLE
5	2	P0310-251	HOLDER BOX
6	2	P0311-032	BUSHING, Insulating 1/2
7	2	P0311-040	CONNECTOR, Strain Relief

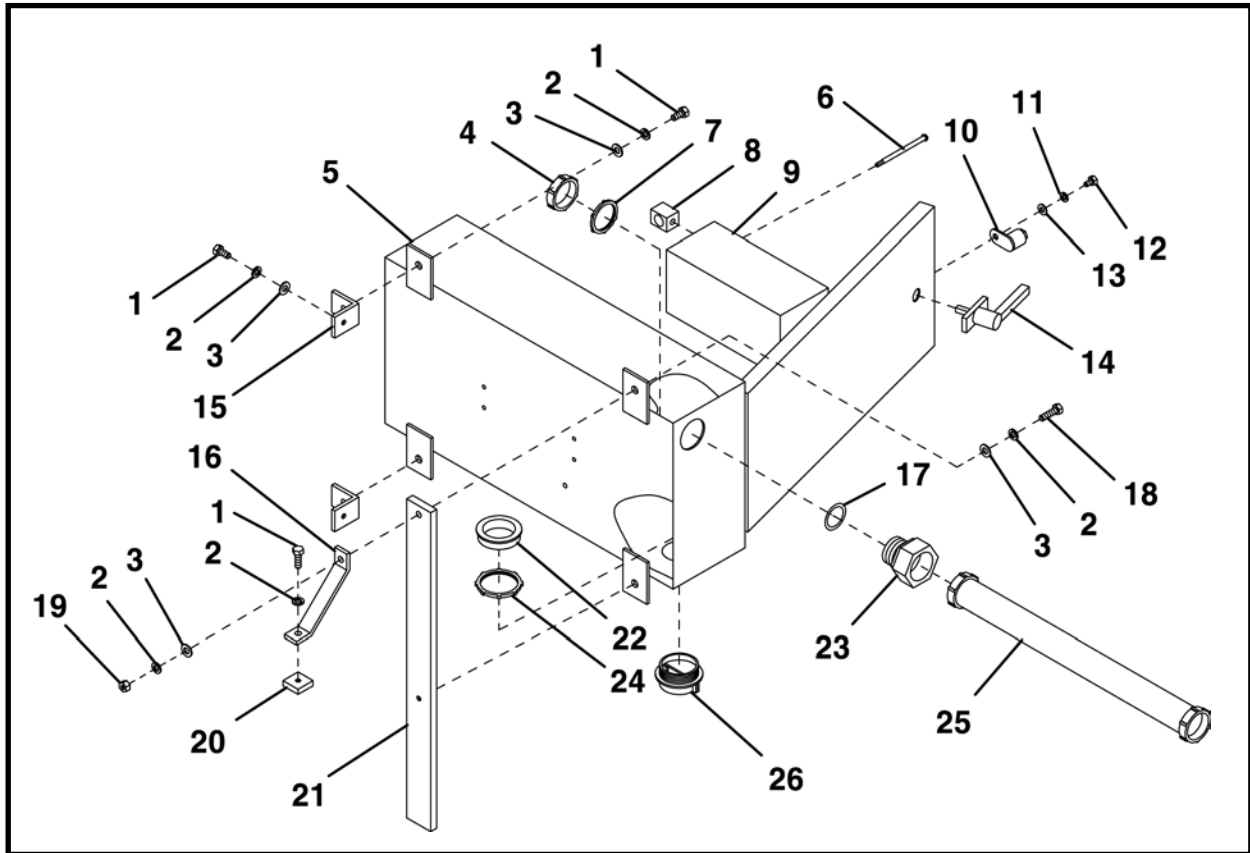
LI - Linear Inch

ELECTRICAL SCHEMATIC, 007952A00
AUXILIARY PUMP UNIT



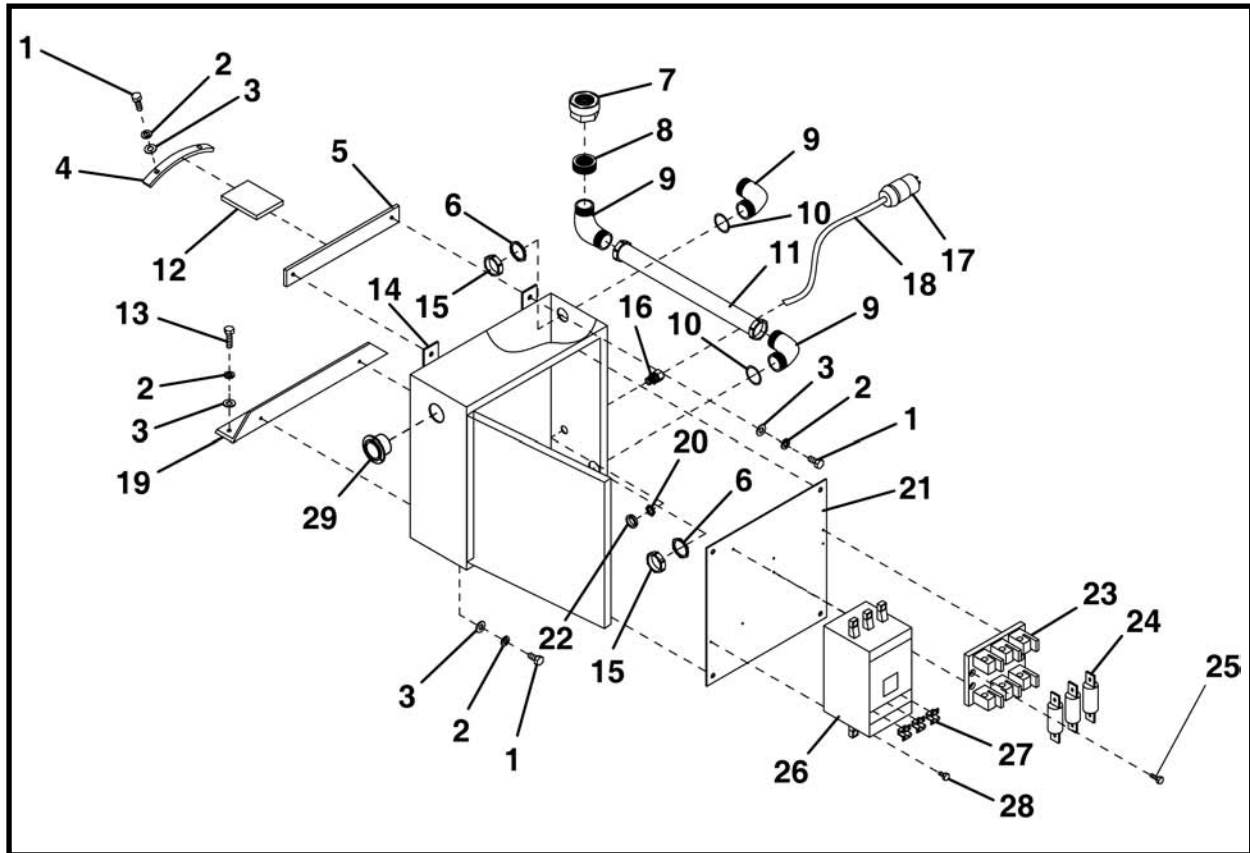
ITEM	QTY	PART NO.	DESCRIPTION
DS-1	REF	P0310-162	DISCONNECT SWITCH/BREAKER
FU-1	1	P0310-212	FUSE BLOCK
FU-1	3	P0310-772	FUSE
MTR-1	REF	P0310-163	MOTOR, 100 HP
MS-1	1	P0310-210	STARTER, 100 HP Motor
OL-1	3	P0310-165	HEATER
SW-1,2	1	P0310-132	SWITCH, Stop & Starter
-	1	P0310-196	PANEL

SMALL ENCLOSURE ASSEMBLY, 016290A **AUXILIARY PUMP UNIT**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	016290A	SMALL ENCLOSURE ASSEMBLY
1	6	P0001-06-003	BOLT, 3/8-16 UNC x 3/4
2	8	P0045-006	WASHER, Lock 3/8
3	8	P0040-006	WASHER, Hardened Flat 3/8
4	1	P0311-047	BUSHING, Insulating 1-1/2
5	1	010145P00	ENCLOSURE
6	4	P0017-14-213	SCREW, Round Head 1/4-20 UNC x 4
7	1	P0311-048	NUT, Lock 1-1/2
8	6	P0310-167	LUG
9	1	P0310-162	BREAKER
10	1	P0311-036	CLAMP, Ground
11	1	P0045-005	WASHER, Lock 5/16
12	1	P0001-05-002	BOLT, 5/16-18 UNC x 1/2
13	1	P0040-005	WASHER, Hardened Flat 5/16
14	1	P0310-161	KIT, Latch
15	2	010302P00	ANGLE
16	1	010301P00	BAR
17	1	P0085-332	O-RING
18	1	P0001-06-005	BOLT, 3/8-16 UNC x 1-1/4
19	1	P0003-06-000	NUT, 3/8
20	1	P0011-006B	NUT
21	1	010300P00	BAR, Mounting
22	1	P0311-053	BUSHING, Insulating 2
23	1	P0311-044	CONNECTOR, Straight 1-1/2
24	1	P0311-054	NUT, Lock 2
25	1	P0312-020	CONDUIT, 1-1/4
26	1	P0311-039	CONNECTOR, 2

LARGE ENCLOSURE ASSEMBLY, 016291A **AUXILIARY PUMP UNIT**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	016291A	LARGE ENCLOSURE ASSEMBLY
1	5	P0001-06-003	BOLT, 3/8 UNC x .75
2	8	P0045-006	WASHER, Lock 3/8
3	8	P0040-006	WASHER, Hardened Flat 3/8
4	1	010306P00	BAR
5	1	010304P00	BAR
6	2	P0311-048	NUT, Lock 1-1/2
7	1	P0311-049	HUB, Screw-Tite
8	1	P0311-124	BUSHING, Reducing
9	3	P0311-045	CONNECTOR, 1-1/2 90 Deg.
10	2	P0085-332	O-RING
11	1	P0312-020	CONDUIT, 1-1/4
12	1	010305P00	BAR
13	2	P0001-06-004	BOLT, 3/8 UNC x 1
14	1	010146P00	ENCLOSURE
15	2	P0311-047	BUSHING, Insulating 1-1/2
16	1	P0311-040	CONNECTOR, Strain Relief
17	1	P0311-064	PLUG, 4 Wire Ground
18	72 LI	P0054-165	CORD, Power
19	1	010303P00	ANGLE
20	1	P0311-018	NUT, Lock 1/2
21	1	016292P	ELECTRICAL PANEL
22	1	P0311-032	BUSHING, Insulating 1/2
23	1	P0310-212	FUSE BLOCK
24	3	P0310-772	FUSE, 175 Amp
25	4	P0001-04-003	BOLT, 1/4 UNC x .75
26	1	P0310-210	STARTER
27	3	P0310-165	HEATER
28	3	P0001-04-002	BOLT, 1/4 UNC x .5
29	1	P0310-260	HOURMETER

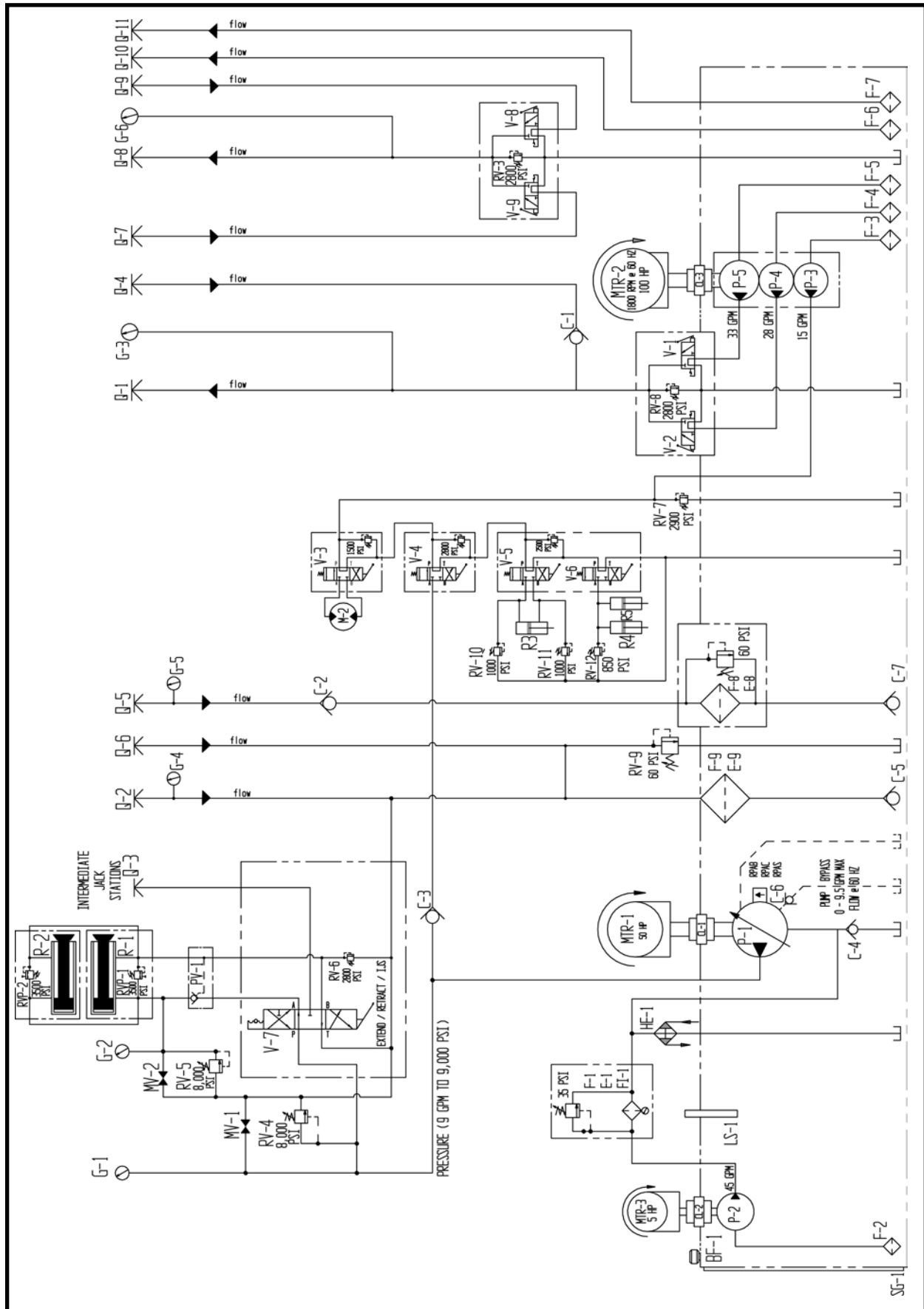
LI - Linear Inch



Hydraulics

5000 Pump Unit	
Hydraulic Schematic, 005058A05	2
Low Pressure Assembly	
Below Plate, 016267A	4
High Pressure Assembly	
Above Plate, 016257A	6
Below Plate, 016258A	8
Cab Frame Sub-Assembly, 016280A	10
Tank Sub-Assembly Hydraulics, 016273A	12
Heat Exchanger Assembly, 008214A00	14
Return RT2 Filter, 011940A00	15
Barrel Assembly RT-8 Filter, 008004A00	16
Shear Valve Assembly, 005393A02 (SN PU5050-27 Thru 49)	18
Shear Valve Assembly, 0016315A (SN PU5050-50 & After).....	20
Drive Valve Assembly, 016259A	22
Cylinder Valve Assembly, 016260A	23
Base Sub-Assembly	
Dual Ram Assembly, 400 Ton, 006165A01 (SN PU5050-27 Thru 49)	24
Dual Ram Assembly, 400 Ton, 016305A (SN PU5050-50 & After)	26
Dog Control Assembly Hydraulics, 005053A02	28
Auxiliary Pump Unit - 100HP	
Hydraulic Assembly, 007953A01	30

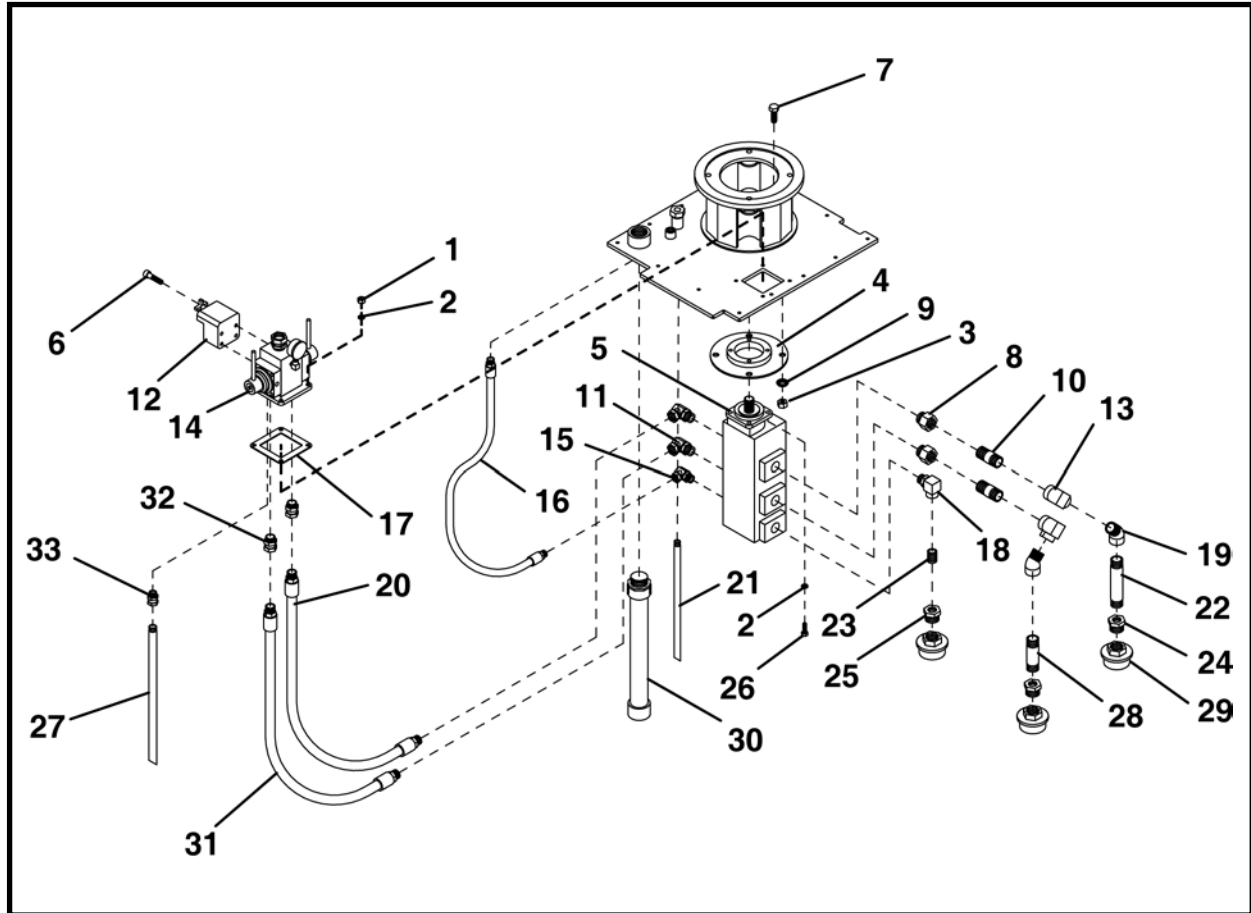
HYDRAULIC SCHEMATIC, 005058A05 5000 PUMP UNIT



HYDRAULIC SCHEMATIC, 005058A05 **5000 PUMP UNIT**

ITEM	QTY	PART NO.	DESCRIPTION
BF-1	REF	P0308-100	FILLER BREATHER
C-1	REF	P0302-344	CHECK VALVE
C-2	REF	P0302-136	CHECK VALVE
C-3	REF	P0302-224	CHECK VALVE
C-4	REF	P0302-368	CHECK VALVE
C-5	REF	P0302-126	CHECK VALVE
C-6	REF	P0302-316	CHECK VALVE
C-7	REF	P0302-126	CHECK VALVE
CL-1	REF	P0305-117	COUPLING
CL-2	REF	P0305-144	COUPLING
CL-3	REF	P0305-117	COUPLING
E-1	REF	P0309-172	FILTER ELEMENT
E-8	REF	P0309-102	FILTER ELEMENT
E-9	REF	P0309-102	FILTER ELEMENT
F-1	REF	P0309-175	FILTER HOUSING
F-2	REF	P0309-153	SUCTION FILTER
F-3-7	REF	P0309-117	SUCTION FILTER
F-8	REF	008004A00	RT-8 FILTER ASSEMBLY
F-9	REF	005394A02	RT-2 FILTER ASSEMBLY
G-1	REF	P0301-102	GAUGE, 15,000 psi
G-2	REF	P0301-102	GAUGE, 15,000 psi
G-3	REF	P0301-100	GAUGE, 5,000 psi
G-4	REF	P0301-105	FILTER GAUGE
G-5	REF	P0301-105	FILTER GAUGE
G-6	REF	P0301-100	GAUGE, 5,000 psi
HE-1	REF	P0093-006	HEAT EXCHANGER
M-2	REF	P0304-100	MOTOR, Hydraulic (for wheel drive)
MTR-1	REF	P0310-136	MOTOR, Electric 50 HP
MTR-2	REF	P0310-163	MOTOR, Electric 100 HP
MTR-3	REF	P0310-599	MOTOR, Electric 5 HP
MV-1,2	REF	004332A00	MANUAL RELIEF VALVE
P-1	REF	P0303-227	PUMP, High Pressure Piston
P-2	REF	P0303-237	PUMP, Gear
P3-5	REF	P0303-189	PUMP, Gear
PV-1	REF	P0302-135	CHECK VALVE, Pilot Operated (SN PU5050-27 Thru 49)
PV-1	REF	P0302-403	CHECK VALVE, Pilot Operated (SN PU5050-50 & After)
Q-1,2	REF	005349A00	COUPLER, Quick
Q-3	REF	P0100-001	COUPLER, High Pressure
Q-4-11	REF	005349A00	COUPLER, Quick
R-1,2	REF	005470A00	CYLINDER, 200 Ton Ram (SN PU5050-27 Thru 45)
R-1,2	REF	016311A	CYLINDER, 200 Ton Ram (SN PU5050-46 & After)
R-3	REF	006084A00	CYLINDER, Dog Control
R-4,5	REF	006011A00	CYLINDER, Ram Lift
RV-3	REF	P0302-121	RELIEF VALVE, 2,800 psi Sub Plate Mount
RV-4,5	REF	P0302-147	RELIEF VALVE, 9,000 psi
RV-6	REF	P0302-109	RELIEF VALVE, 2,800 psi
RV-7	REF	P0302-144	RELIEF VALVE, 2,800 psi
RV-8	REF	P0302-121	RELIEF VALVE, 2,800 psi Sub Plate Mount
RV-9	REF	P0302-157	RELIEF VALVE, 60 psi
RV-10,11	REF	P0302-103	RELIEF VALVE, 1,000 psi
RV-12	REF	P0302-103	RELIEF VALVE, 850 psi
RVP-1,2	REF	006258A01	RELIEF VALVE, 3,500 psi, 200 Ton Ram
SG-1	REF	P0301-106	GAUGE, Sight
TS-1	REF	P0056-075	SWITCH, Over Temperature
V-1,2	REF	002946A00	DUAL VALVE ASSEMBLY (SN PU5050-27 Thru 49)
V-1,2	REF	002944A00	DUAL VALVE ASSEMBLY (SN PU5050-50 & After)
V-3	REF	P0302-110	VALVE, Drive with Relief, 1,500 psi
V-4	REF	P0302-145	VALVE, With Relief, 2,800 psi
V-5,6	REF	P0302-156	VALVE, With Relief, 2,500 psi
V-7	REF	004604A00	SHEAR VALVE ASSEMBLY (SN PU5050-27 Thru 49)
V-7	REF	016302A	SHEAR VALVE ASSEMBLY (SN PU5050-50 & After)
V-8,9	REF	002946A00	DUAL VALVE ASSEMBLY (SN PU5050-27 Thru 49)
V-8,9	REF	002944A	DUAL VALVE ASSEMBLY (SN PU5050-50 & After)

LOW PRESSURE ASSEMBLY - BELOW PLATE, 016267A
5000 PUMP UNIT



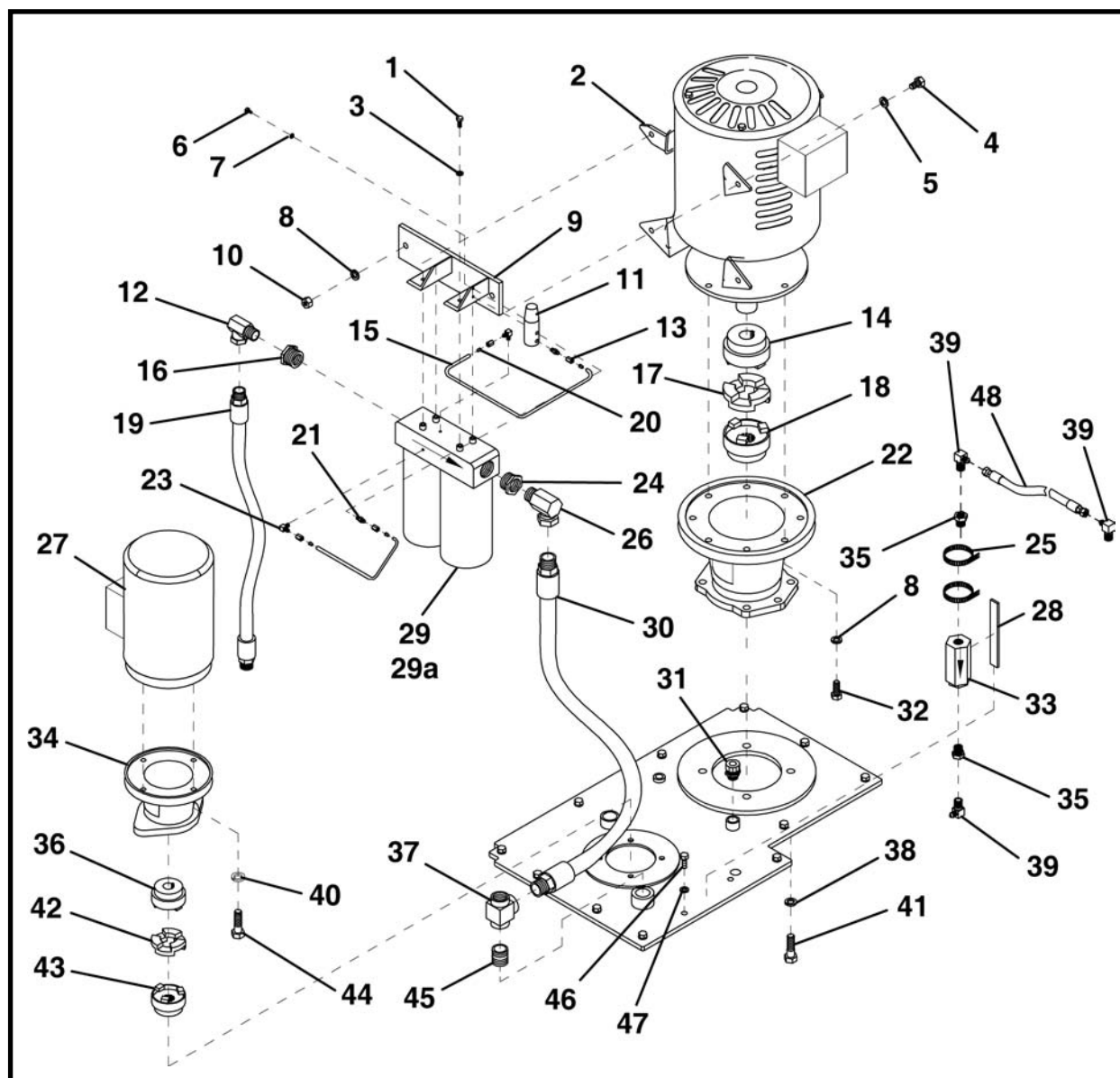
ITEM	QTY	PART NO.	DESCRIPTION
0	1	016267A	LOW PRESSURE ASSEMBLY - BELOW PLATE
1	4	P0001-08-004	BOLT, 1/2 UNC x 1
2	8	P0045-008	WASHER, Lock 1/2
3	4	P0003-12-000	NUT, 3/4 UNC
4	1	002626P00	ADAPTER
5	1	P0303-189	PUMP, Triple
6	4	P0031-10-010	SCREW, Socket Head Cap 5/8 UNC x 2.5
7	4	P0001-12-008	BOLT, 3/4 UNC x 2
8	2	P0300-085	FITTING, 20MB-20FP
9	4	P0045-012	WASHER, Lock 3/4
10	2	P0408-004	NIPPLE, 1-1/4 x 3-1/2
11	2	P0300-052	PIPE, Return
12	1	P0302-121	VALVE
13	2	P0300-097	FITTING, 20FP-20FP90
14.1*	1	002946A00	DUAL VALVE ASSEMBLY (SN PU5050-27 Thru 49)
14.2*	1	002944A00	DUAL VALVE ASSEMBLY (SN PU5050-50 & After)
15	1	P0300-136	FITTING, 12MB-12FPX90-Brazed
16	1	A10330A-027	ASSEMBLY, Hose 3/4 x 27
17	1	003197P00	GASKET, Dual Valve
18	1	P0300-033	FITTING, 16MB-16FP90
19	2	P0300-110	FITTING, 20MP-20FP45
20	1	A10340A-033	ASSEMBLY, Hose 1 x 33
21	1	008472P00	PIPE

LOW PRESSURE ASSEMBLY - BELOW PLATE, 016267A
5000 PUMP UNIT

ITEM	QTY	PART NO.	DESCRIPTION
22	1	004503P01	PIPE
23	1	P0402-005	NIPPLE, Close 1
24	2	P0413-008	BUSHING, Reducer 1-1/2 NPT x 1-1/4
25	1	P0300-077	FITTING, 24MP-16FPS
26	4	P0001-08-006	BOLT, 1/2 UNC x 1.5
27	1	003193P00	PIPE, Return
28	1	P0408-006	NIPPLE, 1-1/4 x 4.5
29	3	P0309-117	SUCTION SCREEN
30	1	016247A	ENCLOSURE, Float Switch
31	1	A10340A-034	ASSEMBLY, Hose 1 x 34
32	2	P0300-162	FITTING, 16MB-16FPX (SN PU5050-50 & After Only)
33	1	P0300-137	FITTING, 12MB-12FPX (SN PU5050-50 & After Only)

* Refer to Section 7, Valves for parts breakdown.

HIGH PRESSURE ASSEMBLY - ABOVE PLATE, 016257A **5000 PUMP UNIT**

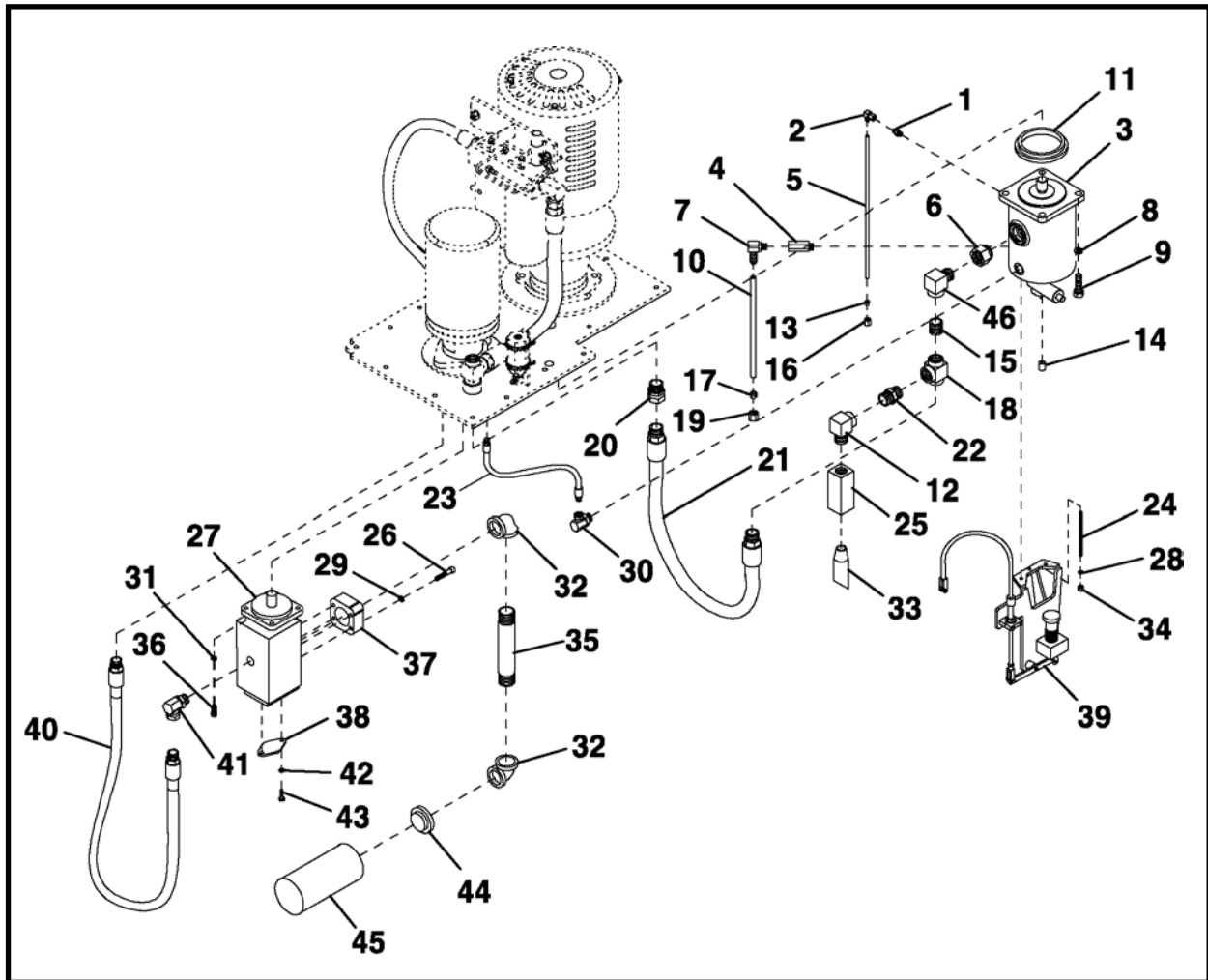


ITEM	QTY	PART NO.	DESCRIPTION
0	1	016257A	HIGH PRESSURE ASSEMBLY - ABOVE PLATE
1	4	P0001-06-003	BOLT, 3/8 UNC x .75
2	1	P0310-136	MOTOR, 50 HP
3	4	P0045-006	WASHER, Lock 3/8
4	4	P0001-10-004	BOLT, 5/8 UNC x 1
5	4	P0040-010	WASHER, Hardened Flat 5/8
6	2	P0001-04-002	BOLT, 1/4 UNC x .5
7	2	P0045-004	WASHER, Lock 1/4
8	6	P0045-010	WASHER, Lock 5/8
9	1	016222A	MOUNT, Filter
10	2	P0003-10-000	NUT, 5/8 UNC
11	1	P0301-108	INDICATOR, Pressure 50 psi
12	1	P0300-005	FITTING, 16MP-16FPZ90 Brazed
13	4	P0300-155	FITTING, 03TSN
14	1	P0305-112A	COUPLER (500 Series)

HIGH PRESSURE ASSEMBLY - ABOVE PLATE, 016257A
5000 PUMP UNIT

ITEM	QTY	PART NO.	DESCRIPTION
15	2	P0110-105	TUBING
16	1	P0413-007	BUSHING, 1-1/2 x 1
17	1	P0305-112D	INSERT (500 Series)
18	1	P0305-112B	SPLINE (500 Series)
19	1	A10340A-026	ASSEMBLY, Hose 1 x 26
20	4	P0300-154	FITTING, 03TS
21	2	P0300-158	FITTING, 03MJ-02MP
22	1	P0305-146	COUPLER
23	2	P0300-159	FITTING, 03MJ-02MP90
24	1	P0413-008	BUSHING, 1-1/2 x 1-1/4
25	2	P0201-230	CLAMP, Radiator
26	1	P0300-179	FITTING, 20MP-20FPX90
27	1	P0310-599	MOTOR, 5 HP
28	1	016250P	BRACKET, Check Valve
29	1	P0309-175	DOUBLE FILTER ASSEMBLY (includes item 29a)
29a	2	P0309-172	FILTER ELEMENT
30	1	A10350A-036	ASSEMBLY, Hose 1-1/4 x 36
31	1	P0311-120	RELIEF, Strain 3/4
32	4	P0001-10-006	BOLT, 5/8 UNC x 1.5
33	1	016245A	VALVE, Check (includes items 33a and 33b)
33a	1	P0070-052	SPRING
33b	1	P0302-224	CHECK VALVE
34	1	P0303-237A	ADAPTER, Pump
35	1	P0300-012	FITTING, 12MP-08FPS
36	1	P0305-144A	COUPLER
37	1	P0300-182	FITTING, 20FP-20FP-20FP
38	4	P0045-012	WASHER, Lock 3/4
39	3	P0300-014	FITTING, 06MJ-08MP90
40	4	P0045-008	WASHER, Lock 1/2
41	4	P0031-12-010	SCREW, Socket Head Cap 3/4 x 2.5
42	1	P0305-144C	INSERT (500 Series)
43	1	P0305-144B	SPLINE (300 Series)
44	4	P0001-08-005	BOLT, 1/2 UNC x 1.25
45	1	P0402-006	NIPPLE, Close 1-1/4
46	16	P0001-08-004	BOLT, 1/2 UNC x 1.25
47	16	P0045-008	WASHER, Lock 1/2
48	1	A10414A-023	ASSEMBLY, Hose 3/8

HIGH PRESSURE ASSEMBLY - BELOW PLATE, 016258A **5000 PUMP UNIT**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	016258A	HIGH PRESSURE ASSEMBLY - BELOW PLATE
1	1	P0300-041	FITTING, 06MJ-06MB
2	1	P0300-149	FITTING, 06MJ-06FJX90
3	1	P0303-227	PUMP
4	1	P0302-316	VALVE, Check
5	21 LI	P0110-106	TUBING
6	1	P0300-161	FITTING, 24MB-20FB
7	1	P0300-205	FITTING, 10MJ-10MB90
8	4	P0045-012	WASHER, Lock 3/4
9	4	P0001-12-010	BOLT, 3/4 UNC x 2.5
10	15 LI	P0110-101	TUBING
11	1	016236P	MOUNT
12	1	P0300-040	FITTING, 20MP-20FP90
13	1	P0300-127	SLEEVE, 06TS
14	1	016243P00	PUSHER-STROKER CONTROL
15	1	P0402-006	NIPPLE, Close 1-1/4
16	1	P0300-128	NUT, 06TSN
17	1	P0300-055	NUT, 10TSN
18	1	P0300-182	FITTING, 20FP-20FP-20FP
19	1	P0300-056	NUT, 10TS

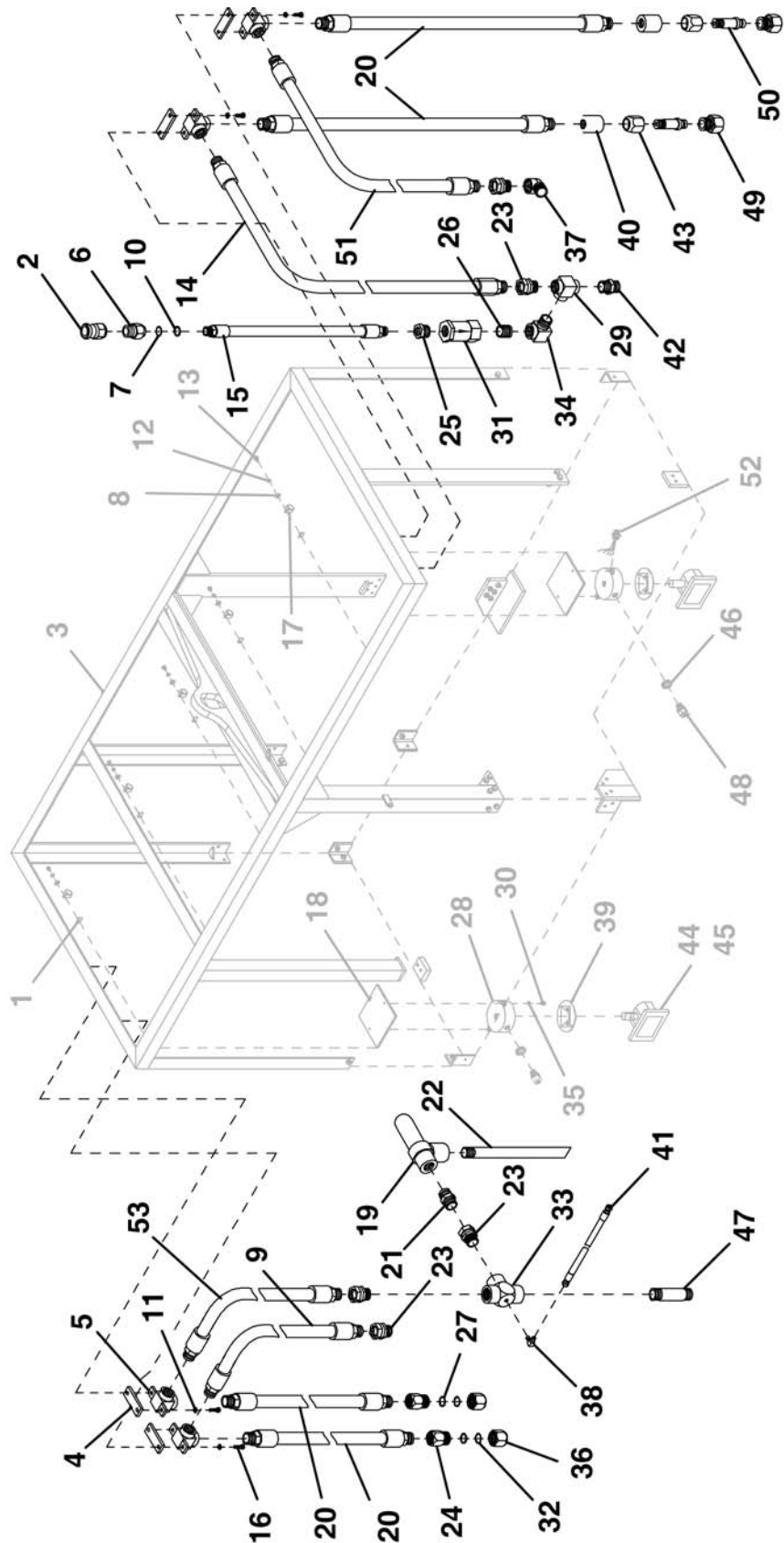
HIGH PRESSURE ASSEMBLY - BELOW PLATE, 016258A**5000 PUMP UNIT**

ITEM	QTY	PART NO.	DESCRIPTION
20	1	P0300-091	FITTING, 20MP-20FPX
21	1	A10350A-040	ASSEMBLY, Hose 1-1/4 x 40
22	1	P0300-066	FITTING, 20MP-20MP
23	1	A10321A-026	ASSEMBLY, Hose 1/2 x 26
24	3	016254P00	RODMounting
25	1	P0302-368	VALVE, Check 20 PSI
26	4	P0031-08-010	SCREW, Socket Head Cap 1/2 UNC x 2.5
27	1	P0303-237	PUMP
28	3	P0045-006	WASHER, Lock 3/8
29	4	P0046-008	WASHER, Lock Hi-Collar 1/2
30	1	P0300-198	FITTING, 12MB-08FPX90
31	4	P0045-008	WASHER, Lock 1/2
32	2	P0412-008A	ELBOW, 2 Street 90 Deg
33	1	016249P	PIPE, Check Valve
34	3	P0003-06-000	NUT, 3/8 UNC
35	1	016287P	PIPE, Motor Suction
36	4	P0001-08-007	BOLT, 1/2 UNC x 1.75
37	1	P0302-347	KIT, Flange
38	1	P0303-170	PLATE, Cover
39*	1	016256A	PUMP STROKER BRACKET ASSEMBLY
40	1	A10340A-033	ASSEMBLY, Hose 1 x 33
41	1	P0300-052	FITTING, 16MB-16FPX90 Brazed
42	2	P0045-005	WASHER, Lock 5/16
43	2	P0001-06-005	BOLT, 3/8 UNC x 1.25
44	1	P0413-015	BUSHING, 2-1/2 x 2
45	1	P0309-153	STRAINER
46	1	P0300-046	FITTING, 20MB-20FP90

LI - Linear Inch

* Refer to Section 3, Structural for parts breakdown.

CAB FRAME SUB-ASSEMBLY, 016280A
5000 PUMP UNIT

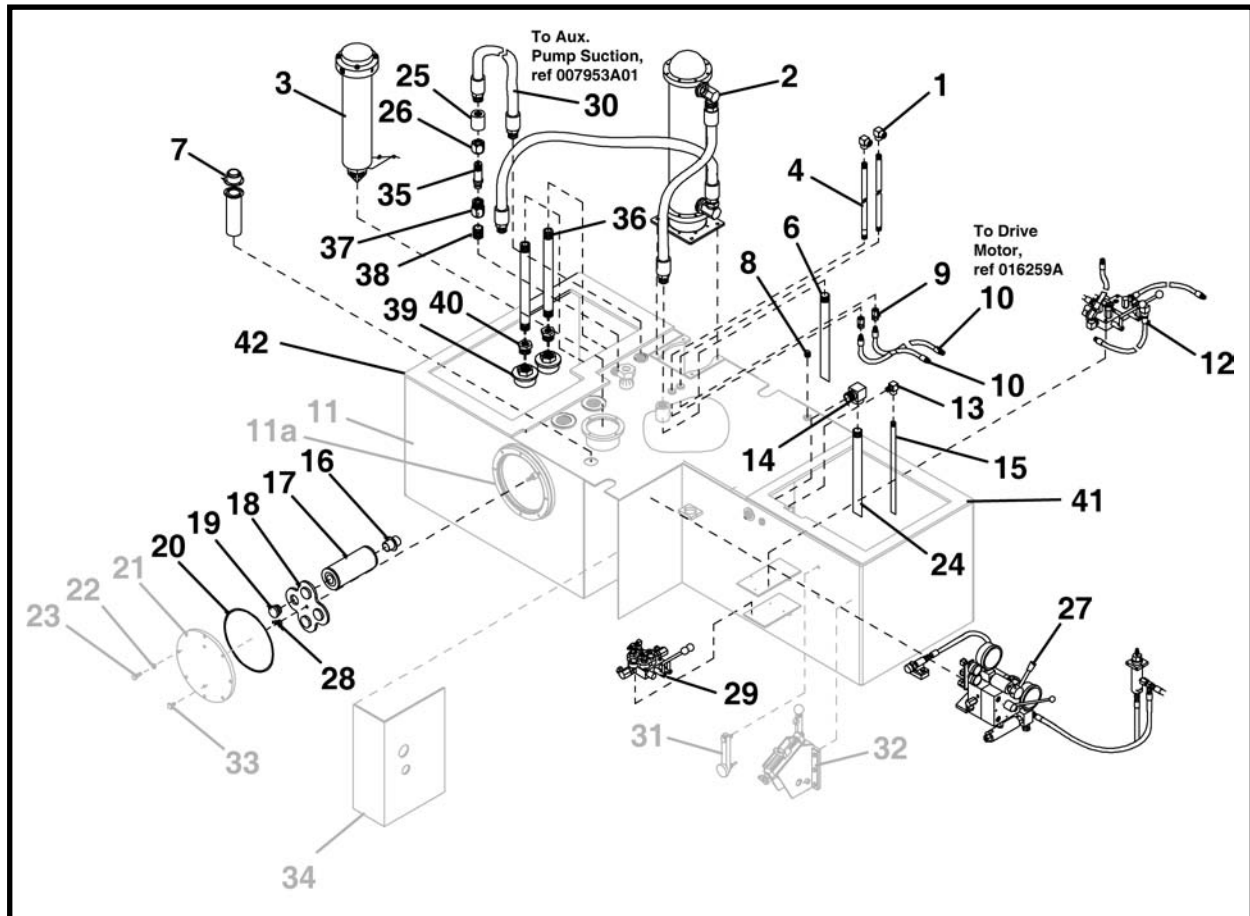


CAB FRAME SUB-ASSEMBLY HYDRAULICS, 016280A**5000 PUMP UNIT**

ITEM	QTY	PART NO.	DESCRIPTION
0	1	016280A	CAB FRAME SUB-ASSEMBLY
1*	REF	-	-
2	1	008149A00	COUPLER
3*	REF	-	-
4	4	004602P00	FITTING
5	4	004600A00	MOUNT, Fitting
6	1	004900P00	COUPLER
7	1	P0085-123	O-RING
8*	REF	-	-
9	1	A10350A-046	HOSE, 1-1/4 x 46
10	1	P0084-123	RING, Back-Up
11	8	P0045-006	WASHER, Lock 3/8
12*	REF	-	-
13*	REF	-	-
14	1	A10350A-030	HOSE, 1-1/4 x 30
15	1	A10340A-038	HOSE, 1 x 38
16	8	P0001-06-004	BOLT, 3/8 UNC x 1
17*	REF	-	-
18*	REF	-	-
19	1	P0302-157	VALVE
20	4	A10350A-060	HOSE, 1-1/4 x 60
21	1	P0300-066	FITTING, 20MP-20MP
22	1	008123P00	TUBE, Plastic Relief
23	5	P0300-091	FITTING, 20MP-20FPX
24	2	005348P00	COUPLER
25	1	P0300-001	FITTING, 20MP-16FPS
26	1	P0402-006	NIPPLE, Close 1-1/4
27	2	P0084-123	RING, Back-Up
28*	REF	-	-
29	1	P0300-182	FITTING, 20FP-20FP-20FP
30*	REF	-	-
31	1	P0302-163	CHECK VALVE
32	2	P0085-123	O-RING
33	1	008122P00	TEE
34	1	P0300-040	FITTING, 20MP-20FP90
35*	REF	-	-
36	2	007002P02	COUPLER CAP
37	1	P0300-110	FITTING, 20MP-20FP45
38	1	P0300-124	FITTING, 04MP-04MP90
39*	REF	-	-
40	2	P0421-012	COUPLER, Reducer
41	1	A10311A-030	HOSE, 3/8 x 30
42	1	P0300-066	FITTING, 20MP-20MP
43	2	004899P00	COUPLER UNION
44*	REF	-	-
45*	REF	-	-
46*	REF	-	-
47	1	P0408-008	NIPPLE, 1-1/4 x 6
48*	REF	-	-
49	2	005350P03	COUPLER CAP
50	2	004901P01	COUPLER
51	1	A10350A-058	HOSE, 1-1/4 x 58
52*	REF	-	-
53	1	A10350A-047	HOSE, 1-1/4 x 47

* Refer to CAB FRAME SUB-ASSEMBLY STRUCTURALS, 016280A in Section 3, Structural.

TANK SUB-ASSEMBLY HYDRAULICS, 016273A
5000 PUMP UNIT



ITEM	QTY	PART NO.	DESCRIPTION
0	1	016273A	TANK SUB-ASSEMBLY (includes items 1-41)
1	3	P0300-030	ELBOW, 1/2 NPT 90 Deg.
2**	1	008214A00	HEAT EXCHANGER ASSEMBLY
3**	1	011940A00	FILTER, Return
4	2	005397P00	PIPE
5	3	P0300-180	PLUG, 20MP
6	1	016301P	PIPE
7	1	P0308-100	BREATHER FILTER
8	1	P0308-102	BREATHER
9	2	P0300-059	FITTING, 08FP-08FPX
10	1	A10320A-025	ASSEMBLY, Hose 1/2 x 25
11*	REF	-	-
11a*	REF	-	-
12**	1	016259A	DRIVE VALVE ASSEMBLY
13	1	P0300-032	FITTING, 08MP-08FP90 Brazed
14	1	P0300-057	FITTING, 16MP-16FP90
15	1	008447P00	PIPE
16	4	P0309-115	SPACER ELEMENT
17	8	P0309-102	FILTER, Element Return
18	1	007102P00	PLATE, Clover
19	4	007101P00	SEAT, Front Filter
20	1	P0085-450	O-RING
21*	REF	-	-
22*	REF	-	-
23*	REF	-	-

TANK SUB-ASSEMBLY HYDRAULICS, 016273A

5000 PUMP UNIT

ITEM	QTY	PART NO.	DESCRIPTION
24	1	016244P	PIPE, Tank Return
25	1	P0421-012	COUPLER, Reducer
26	1	004901P01	COUPLER
27.1**	1	005393A02	SHEAR VALVE ASSEMBLY (SN PU5050-27 Thru 49)
27.2**	1	016315A	SHEAR VALVE ASSEMBLY (SN PU5050-50 & After)
28	1	P0012-08-000	NUT, Wing 1/2
29**	1	016260A	CYLINDER VALVE ASSEMBLY
30	1	A10350A-052	HOSE, 1-1/4 x 52
31*	REF	-	-
32*	REF	-	-
33*	REF	-	-
34*	REF	-	-
35	1	004899P00	COUPLER UNION
36	2	016240P	PIPE, Tank Suction
37	1	005348P00	COUPLER
38	1	P0408-001	NIPPLE, Close 1-1/4 x 2
39	2	P0309-117	SUCTION SCREEN
40	2	P0413-008	BUSHING, 1-1/4 x 1-1/2
41	1	P0029-004-018	GASKET, 18 FT
42	1	P0029-004-022	GASKET, 22 FT

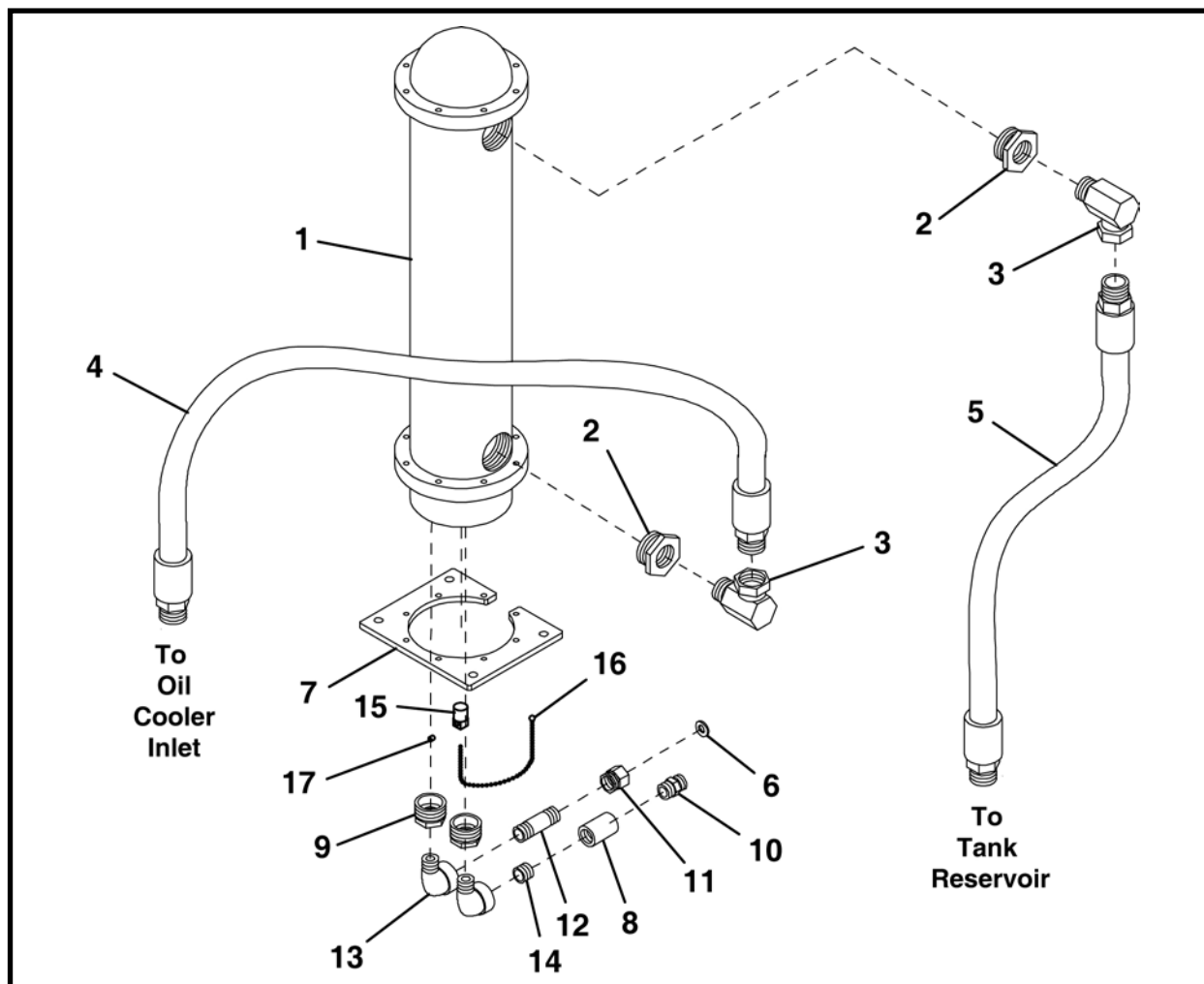
* Refer to TANK SUB-ASSEMBLY STRUCTURALS, 016273A in Section 3, Structural.

** Refer to this section for parts breakdown.

*** Not Shown.

FT - Feet

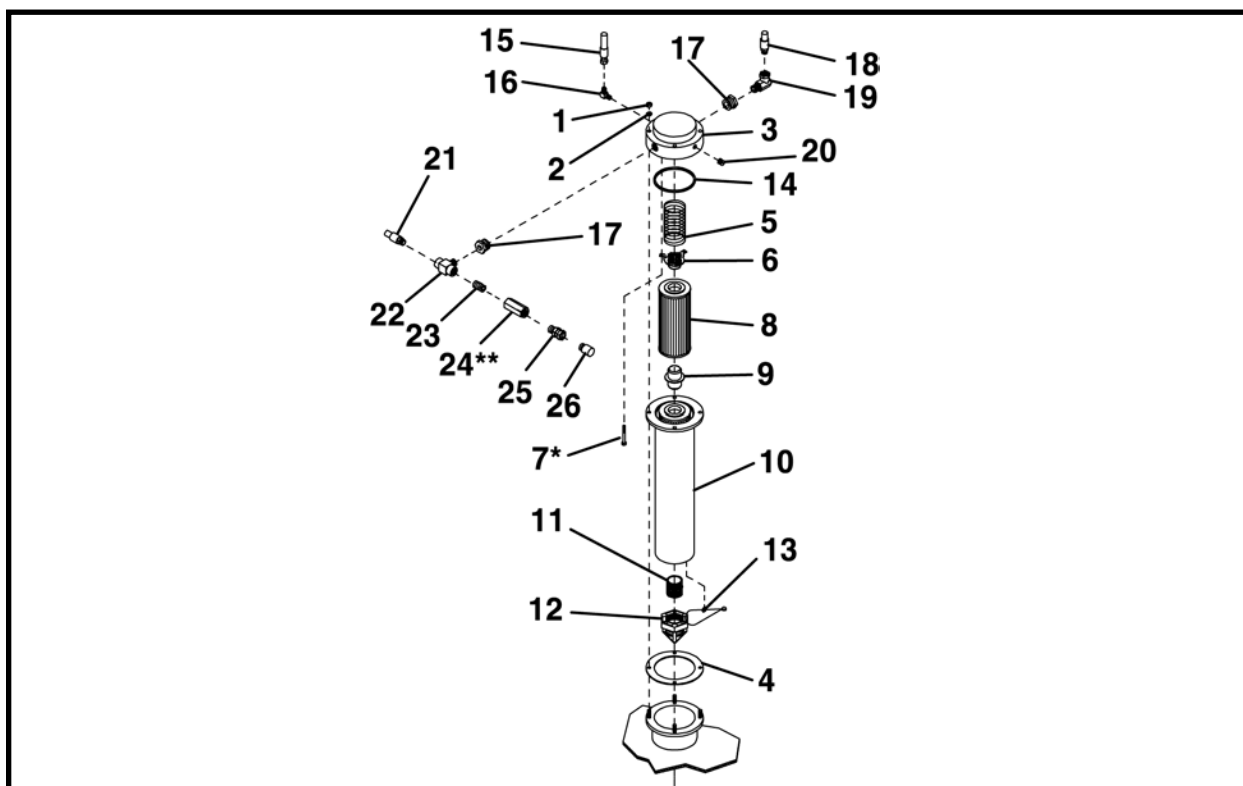
HEAT EXCHANGER ASSEMBLY, 008214A00 **5000 PUMP UNIT**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	008214A00	HEAT EXCHANGER ASSEMBLY
1	1	P0093-006	HEAT EXCHANGER
1a	1	P0093-016	BONNET, Top
1b	1	P0093-012	BONNET, Bottom
1c	1	P0093-008	GASKET, Bottom
1d*	1	P0093-008	GASKET, Top
2	2	P0413-011	BUSHING, 2 x 1-1/4
3	2	P0300-179	FITTING, 20MP-20FPX90
4	1	A10350A-060	ASSEMBLY, Hose 1-1/4 x 60
5	1	A10350A-034	ASSEMBLY, Hose 1-1/4 x 34
6	1	P0093-005	WASHER
7	1	008032P01	PLATE, Heat Exchanger Mounting
8	1	P0400-004	COUPLING, Pipe 3/4
9	2	P0413-006	BUSHING, 1-1/2 x 3/4
10	1	P0093-003	FITTING
11	1	P0093-004	FITTING
12	1	P0406-004	NIPPLE, 3/4 x 3
13	2	P0412-004	ELBOW, Street 3/4 90 Deg.
14	1	P0402-004	NIPPLE, Close 3/4
15	1	016729P	FITTING
16	1	P0100-001C	CHAIN
17	1	P0033-04-004	SCREW, Socket Head Cap 1/4 UNC x .25

* Trim gasket to fit top bonnet.

RT2 RETURN FILTER, 011940A00
5000 PUMP UNIT

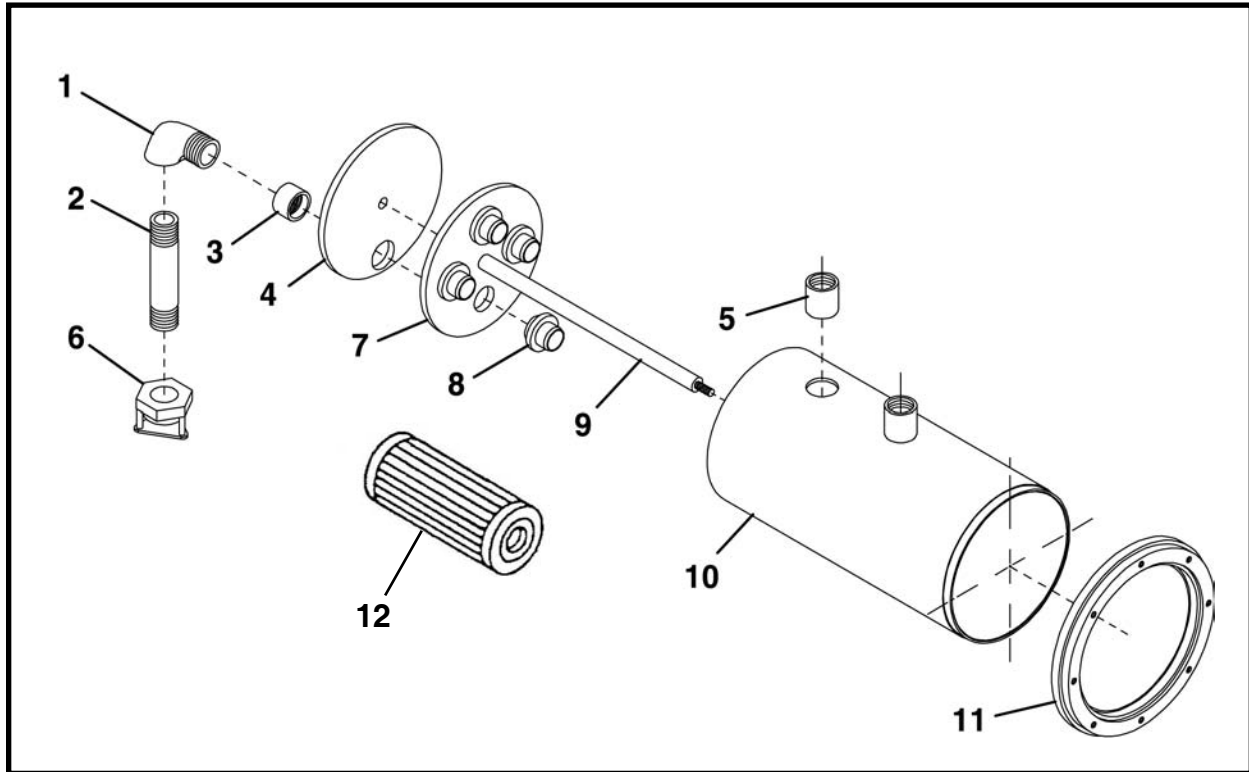


ITEM	QTY	PART NO.	DESCRIPTION
0	1	011940A00	RT2 RETURN FILTER
1	4	P0003-06-000	NUT, 3/8 UNC
2	4	P0045-006	WASHER, Lock 3/8
3	1	011935P01	CAP, Return Filter
4	1	P0309-130	GASKET
5	1	P0309-138	SPRING
6	1	P0309-139	VALVE, Relief
7	3	P0001-04-006	BOLT, 1/4 UNC x 1.5
8	2	P0309-102	ELEMENT, Filter
9	1	P0309-115	SPACER, Element
10	1	011936A00	BARREL ASSEMBLY
11	1	P0409-001	NIPPLE, 1-1/2 x 2
12	1	P0309-126	CHECK VALVE
13	1	P0040-005	WASHER, Flat 5/16
14	1	P0085-S3	O-RING
15	1	A10311A-024	ASSEMBLY, Hose 3/8 x 24
16	1	P0300-125	FITTING, 06MJ-04MP90
17	1	P0300-078	FITTING, 16MP-08FPS
18	1	A10320A-021	ASSEMBLY, Hose 1/2 x 21
19	1	P0300-018	FITTING, 08MP-08FPX90 Brazed
20	1	P0300-026	PLUG, 04MP-HHP
21	1	A10320A-058	ASSEMBLY, Hose 1/2 x 58
22	1	P0300-168	FITTING, 08FP-08FP-08MP
23	1	P0402-003	NIPPLE, Close 1/2
24**	1	P0302-102	CHECK VALVE
25	1	P0300-010	FITTING, 08MP-08FPX
26	1	004599A01	PLUG (includes items 26a - 26d)
26a	1	008276P00	PLUG
26b	1	P0033-04-004	SCREW, Set
26c	1	P0100-001C	CHAIN
26d	1	P0100-001D	RING

* Bottom out threads and loctite.

** Arrow on check valve needs to point to RT-2 Filter.

BARREL ASSEMBLY RT-8 FILTER, 008004A00
5000 PUMP UNIT



ITEM	QTY	PART NO.	DESCRIPTION
0	1	008004A00	BARREL ASSEMBLY RT-8 FILTER (includes items 1-11)
1	1	P0412-007A	ELBOW, Street
2	1	007089P00	PIPE
3	1	007088P00	DRAIN
4	1	007096P00	PLATE, Back
5	2	P0400-006	COUPLING
6	1	P0309-126	CHECK VALVE
7	1	007097P00	PLATE, Base
8	4	007098P00	SEAT, Filter
9	1	008002P00	ROD, Filter Center
10	1	008001P00	BARREL
11	1	007093P00	FLANGE, Front Filter
12*	8	P0309-102	FILTER ELEMENT, Return

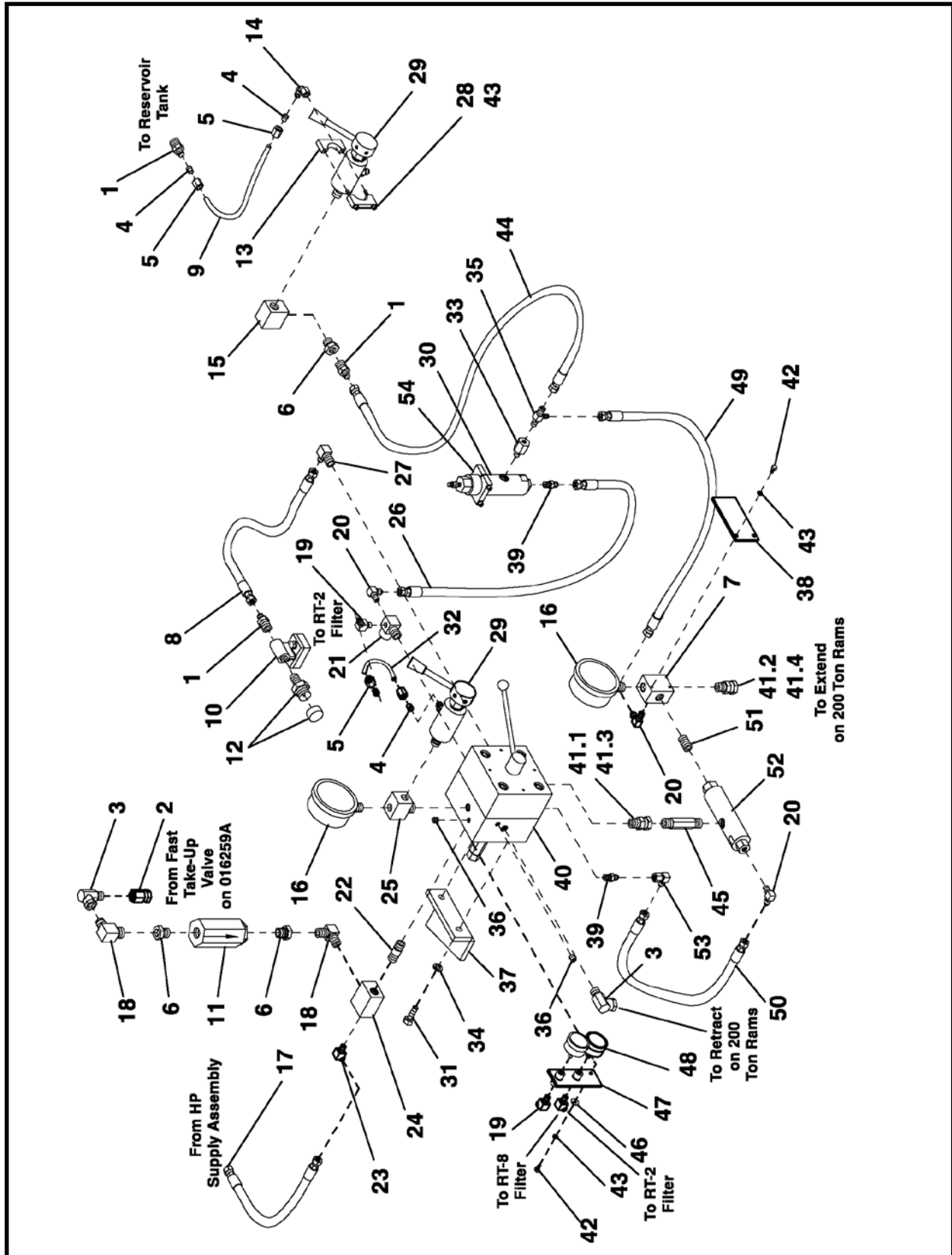
* Not included in Barrel Assembly 008004A00.

NOTES

SHEAR VALVE ASSEMBLY, 005393A02

5000 PUMP UNIT

(SN PU5050-27 Thru PU5050-49)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	005393A02	SHEAR VALVE ASSEMBLY
1	3	P0300-120	CONNECTOR
2	1	P0300-059	ADAPTER, Swivel Pipe

SHEAR VALVE ASSEMBLY, 005393A02**5000 PUMP UNIT****(SN PU5050-27 Thru PU5050-49)**

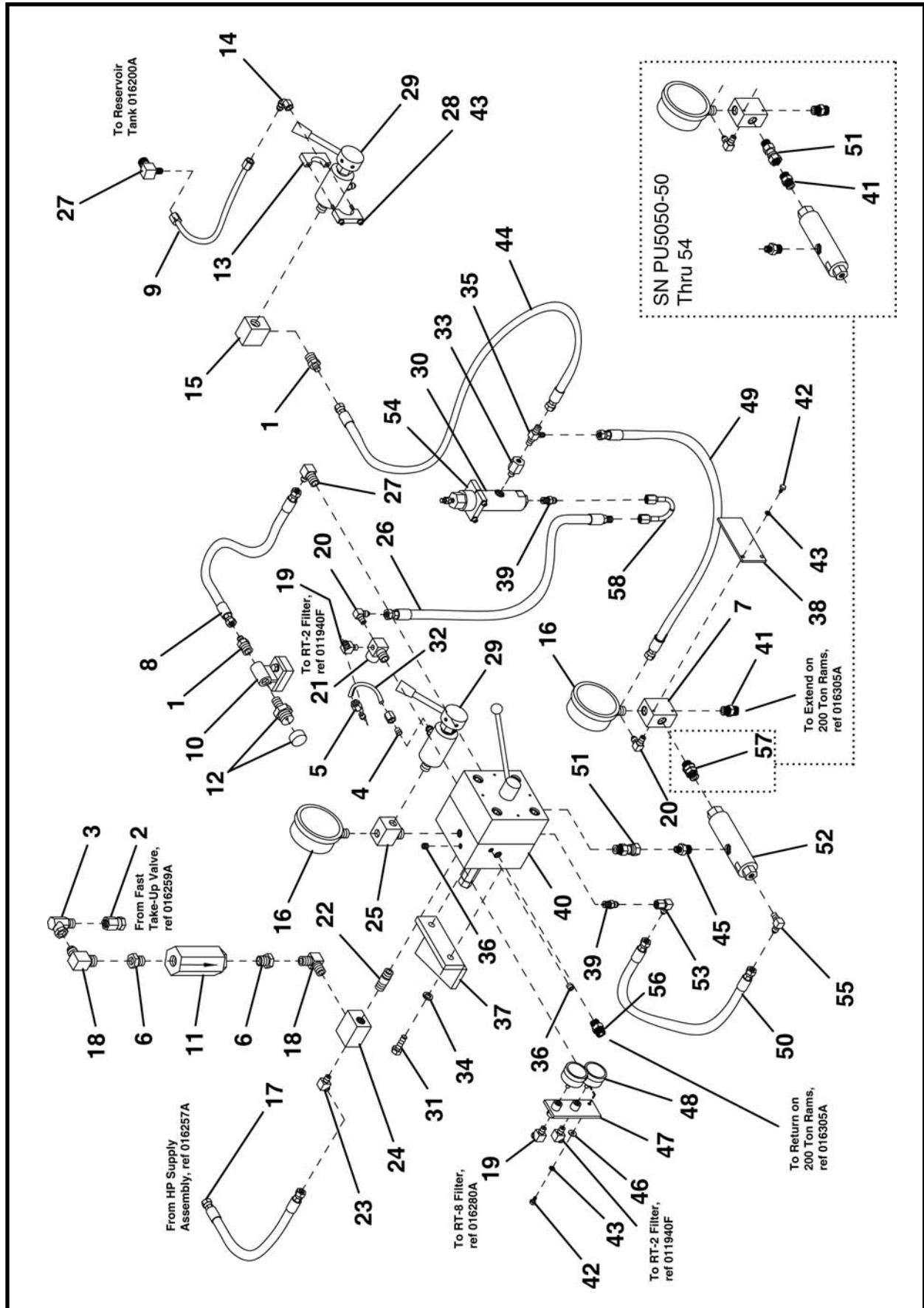
ITEM	QTY	PART NO.	DESCRIPTION
3	2	P0300-018	ADAPTER, Swivel Pipe Elbow
4	4	P0300-127	SLEEVE, Tube
5	4	P0300-128	NUT, Tube
6	3	P0300-012	BUSHING, Reducer
7.1	1	006146P00	MANIFOLD, High Pressure (SN PU5050-27 Thru 44)
7.2	1	016309P	MANIFOLD, ORB High Pressure (SN PU5050-45 Thru 49)
8	1	P0506-030	HOSE, 3/8 x 30
9	1	P0110-106-007	TUBING, 3/8 x 7
10	1	008458A00	BRACKET, Intermediate Jack
11	1	P0302-224	CHECK VALVE
12	1	P0100-001A	COUPLER
13	1	023536P00	BRACKET, Relief Valve
14	1	P0300-123	ELBOW, Swivel Nut
15	1	006148P00	ELBOW
16	2	P0301-102	GAUGE, 15,000 psi
17	1	P0506-033	HOSE, 3/8 x 33
18	2	P0300-025	ELBOW
19	3	P0300-119	ELBOW
20	3	P0300-125	ELBOW
21	1	008475P00	ELBOW, Shear Valve
22	1	P0405-002	NIPPLE
23	1	P0300-172	ELBOW
24	1	016251P	MANIFOLD, High Pressure
25	1	006147P00	TEE, Run
26	1	P0506-045	HOSE, 3/8 x 45
27	1	P0300-014	ELBOW
28	2	P0031-04-008	CAP SCREW, Socket Head 1/4-20 x 2
29*	2	004332A00	RELIEF VALVE ASSEMBLY
30	1	P0302-147	VALVE
31	2	P0001-08-006	BOLT, 1/2-13 UNC x 1-1/2
32	1	P0110-106-009	TUBING, 3/8 x 9
33	1	P0302-147A	RELIEF
34	2	P0045-008	WASHER, Lock 1/2
35	1	P0300-132	TEE, Run
36	2	P0300-026	PLUG
37	1	004501P01	BRACKET, Relief Valve
38	1	016252P	BRACKET, Manifold Stiffener
39	2	P0300-121	CONNECTOR
40*	1	004604A00	VALVE, Shear w/Relief
41.1**	1	P0300-213	SWIVEL, High Pressure (SN PU5050-27 Thru 44)
41.2***	1	P0300-213	SWIVEL, High Pressure (SN PU5050-27 Thru 44)
41.3**	1	P0300-213	SWIVEL, High Pressure (SN PU5050-45)
41.4	1	P0300-300	SWIVEL, ORB High Pressure (SN PU5050-45 Thru 49)
42	1	P0001-04-002	BOLT, 1/4-20 UNC x 1/2
43	3	P0045-004	WASHER, Lock 1/4
44	1	P0506-020	HOSE, 3/8 x 20
45	1	P0300-201	NIPPLE
46	1	P0040-004	WASHER, Flat 1/4
47	1	016266A	WELDMENT, Bracket
48	2	P0301-105	GAUGE, Filter Indicator
49	1	P0506-025	HOSE, 3/8 x 25
50	1	P0506-028	HOSE, 3/8 x 28
51	1	P0402-003	NIPPLE
52	1	P0302-135	VALVE
53	1	P0300-149	ELBOW, Swivel Nut
54	1	006616A00	CLAMP ASSEMBLY (includes items 54a and 54b)
54a	2	P0001-04-009	BOLT, 1/4-20 UNC x 2-1/4
54b	2	P0045-004	WASHER, Lock 1/4

* Refer to Section 7, Valves for parts breakdown.

** Swivel P0300-213 is no longer available. If Swivel Items 41.1 or 41.3 fail, install Nipple Item 45 directly to Shear Valve Item 40.

*** If Swivel Item 41.2 fails, replace with Fitting P0300-382; switch Hose P0200-077 (Item 1.1 on assembly 006165A01) with A10321A-038; and add Fitting P0300-382 between the new A10321A-038 Hose and Manifold (Item 10.1 on assembly 006165A01).

SHEAR VALVE ASSEMBLY, 016315A
5000 PUMP UNIT
(SN PU5050-50 & AFTER)



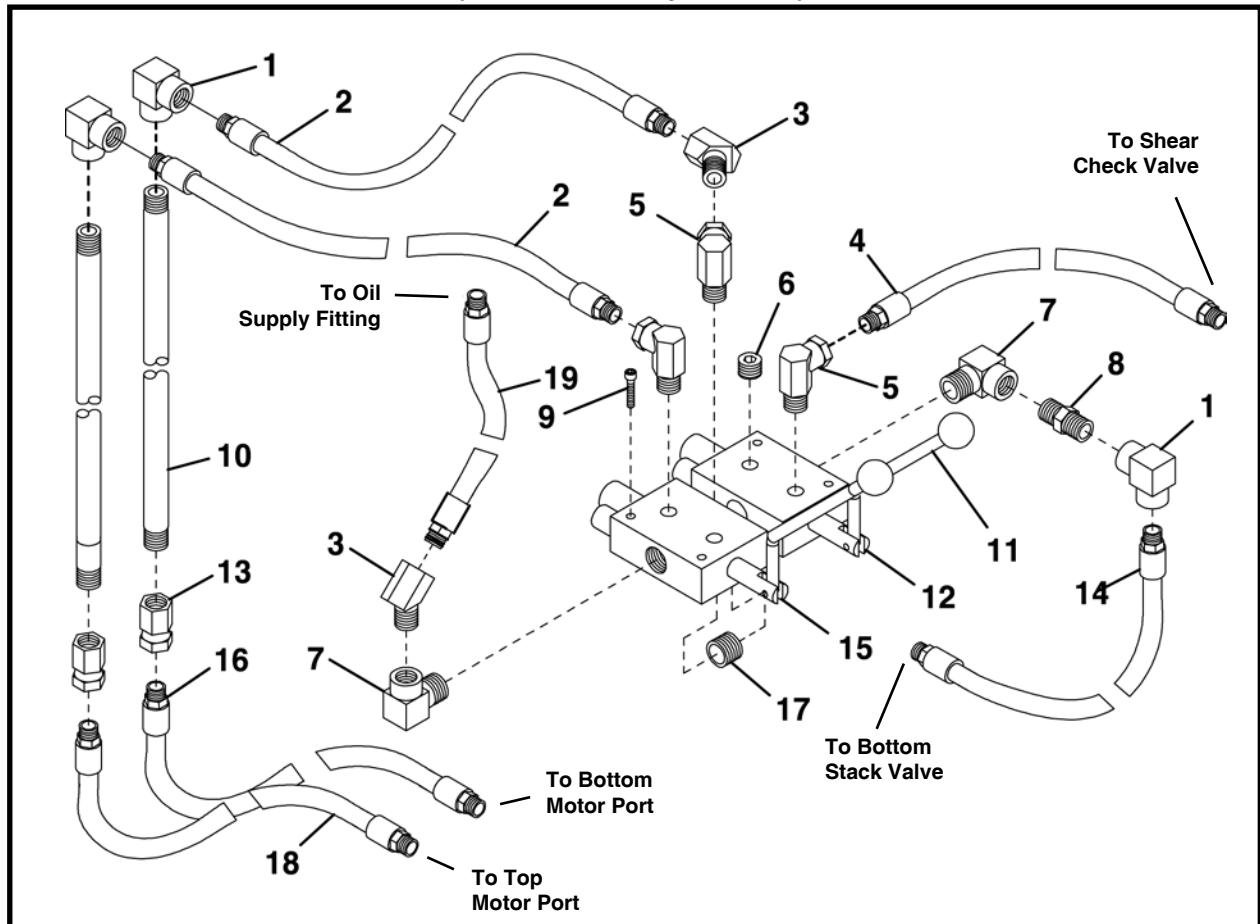
SHEAR VALVE ASSEMBLY, 016315A**5000 PUMP UNIT****(SN PU5050-50 & AFTER)**

ITEM	QTY	PART NO.	DESCRIPTION
0	1	016315A	SHEAR VALVE ASSEMBLY
1	2	P0300-120	FITTING, 06MJ-08MP
2	1	P0300-059	FITTING, 08FP-08FPX
3	1	P0300-018	FITTING, 08MP-08FPX90 Brazed
4	2	P0300-127	SLEEVE, 06TS
5	2	P0300-128	NUT, 06TSN
6	2	P0300-012	FITTING, 12MP-08FPS
7	1	016304P	MANIFOLD, High Pressure
8	1	A10414A-030	ASSEMBLY, Hose 3/8 x 30
9	1	A10311A-024	ASSEMBLY, Hose 3/8 x 24
10	1	008458A00	BRACKET, Intermediate Jack
11	1	P0302-224	CHECK VALVE
12	1	P0100-001A	COUPLER
13	1	023536P00	BRACKET, Relief Valve
14	1	P0300-043	FITTING, 06MJ-06MB45
15	1	006148P00	ELBOW
16	2	P0301-102	GAUGE, 15,000 psi
17	1	A10414A-033	ASSEMBLY, Hose 3/8 x 33
18	2	P0300-025	FITTING, 08MP-08MP90
19	3	P0300-119	FITTING, 06MJ-04MP45
20	2	P0300-125	FITTING, 06MJ-04MP90
21	1	008475P00	ELBOW
22	1	P0405-002	NIPPLE
23	1	P0300-172	FITTING, 06MJ-08MP45
24	1	016251P	MANIFOLD, High Pressure
25	1	006147P00	TEE, Run
26	1	A09945A-025	ASSEMBLY, Hose 3/8 x 25
27	2	P0300-014	FITTING, 06MJ-08MP90
28	2	P0031-04-008	CAP SCREW, Socket Head 1/4 UNC x 2
29*	2	004332A00	RELIEF VALVE ASSEMBLY
30	1	P0302-147	VALVE
31	2	P0001-08-006	BOLT, 1/2 UNC x 1-1/2
32	9 LI	P0110-106	TUBING, 3/8
33	1	P0302-147A	ADAPTER
34	2	P0045-008	WASHER, Lock 1/2
35	1	P0300-132	FITTING, 06MJ-04MP-06MJ
36	2	P0300-026	PLUG, 04MP-HHP
37	1	004501P01	BRACKET, Relief Valve
38	1	016308P	BRACKET, Manifold Stiffener
39	2	P0300-121	FITTING, 06MJ-04MP
40*	1	016302A	VALVE, Shear w/Relief
41	1	P0300-305	FITTING, 08MFOR x 08MB
42	1	P0001-04-002	BOLT, 1/4 UNC x 1/2
43	3	P0045-004	WASHER, Lock 1/4
44	1	A10414A-020	ASSEMBLY, Hose 3/8 x 20
45	1	P0300-400	FITTING, 08MFOR x 08MB
46	1	P0040-004	WASHER, Hardened Flat 1/4
47	1	016266A	Bracket
48	2	P0301-105	GAUGE, Filter Indicator
49	1	A10414A-025	ASSEMBLY, Hose 3/8 x 25
50	1	A10414A-028	ASSEMBLY, Hose 3/8 x 28
51	1	P0300-401	FITTING, 8ORFS x 8 Str Oring
52	1	P0302-403	VALVE
53	1	P0300-149	FITTING, 06MJ-06FJX90
54	1	006616A00	CLAMP ASSEMBLY (includes items 54a and 54b)
54a	2	P0001-04-009	BOLT, 1/4-20 UNC x 2-1/4
54b	2	P0045-004	WASHER, Lock 1/4
55	1	P0300-042	FITTING, 06MJ-06MB90
56	1	P0300-316	FITTING, 08MFOR-08MB90
57	1	P0300-542	FITTING, 08MB-08MB (SN PU5050-55 & After)
58	1	001907A00	TUBE

* Refer to Section 7, Valves for parts breakdown.

LI - Linear Inch

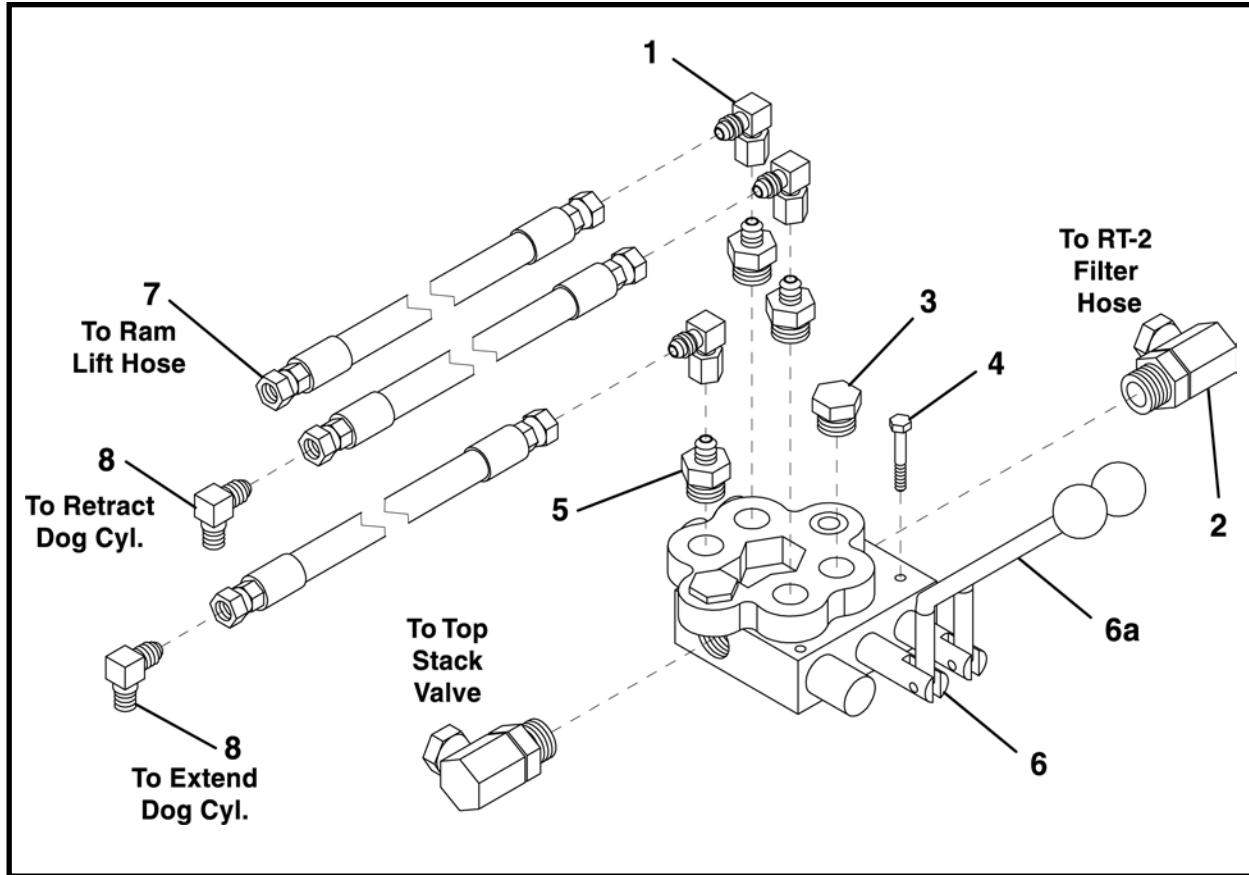
DRIVE VALVE ASSEMBLY, 016259A
5000 PUMP UNIT
(Part of Assembly 016273A)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	016259A	DRIVE VALVE ASSEMBLY
1	3	P0300-030	FITTING, 08FP-08FP90
2	2	A10320A-053	ASSEMBLY, Hose 1/2 x 53
3	2	P0300-029	FITTING, 08MP-08FP45
4	1	A10320A-040	ASSEMBLY, Hose 1/2 x 40
5	3	P0300-018	ASSEMBLY, Hose 08MP-08FPX90 Brazed
6	1	P0300-079	PLUG, 08MP-HHP
7	2	P0300-023	FITTING, 12MP-08FP90
8	1	P0300-048	FITTING, 08MP-08MP
9	8	P0031-04-005	CAP SCREW, Socket Head 1/4 UNC x 1.25
10	2	005397P00	PIPE
11	1	003187P00	HANDLE
12*	1	P0302-145	VALVE
13	2	P0300-059	FITTING, 08FP-08FPX
14	2	A10320A-028	ASSEMBLY, Hose 1/2 x 28
15*	1	P0302-110	VALVE
16	1	A10320A-024	ASSEMBLY, Hose 1/2 x 24
17	1	P0402-004	NIPPLE, Close
18	1	A10320A-022	ASSEMBLY, Hose 1/2 x 22
19	1	A10320A-036	ASSEMBLY, Hose 1/2 x 36

* Seal Kit P0302-145A Seal Kit, quantity 2.

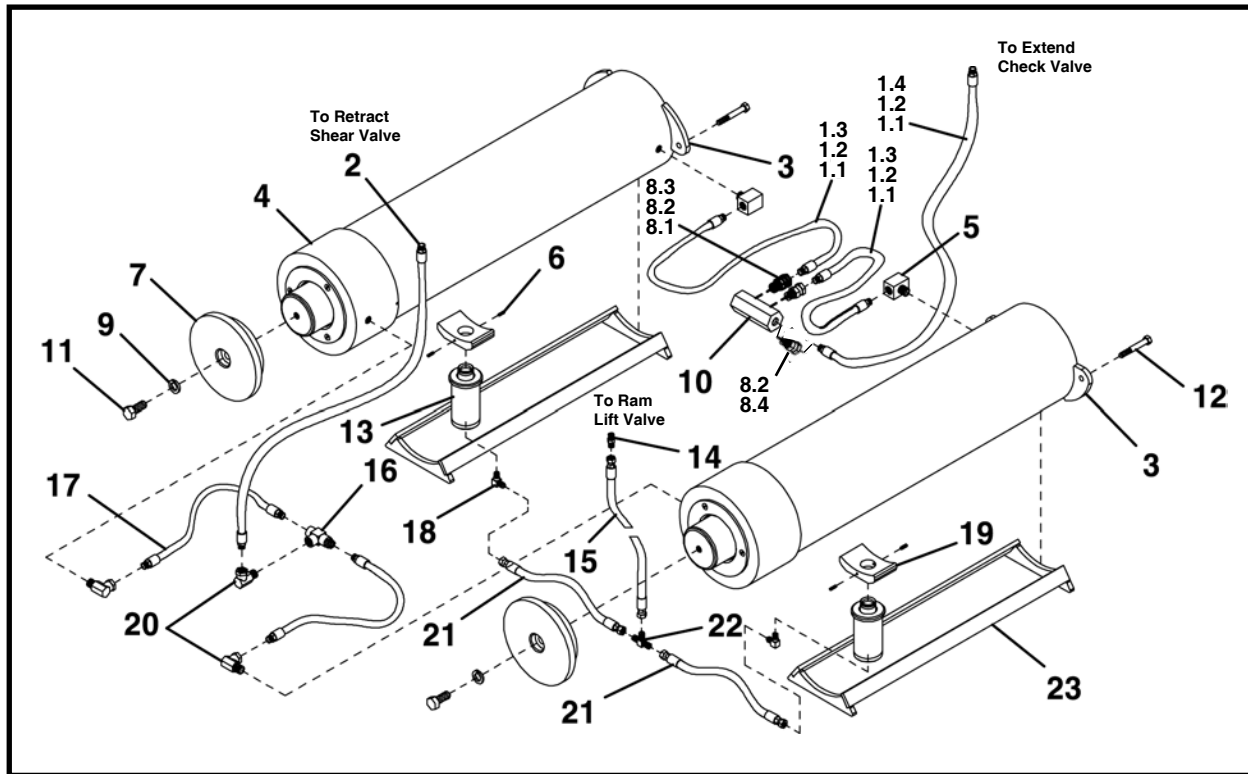
CYLINDER VALVE ASSEMBLY, 016260A
5000 PUMP UNIT
(Part of Assembly 016273A)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	016260A	CYLINDER VALVE ASSEMBLY
1	3	P0300-149	FITTING, 06MJ-06FJX90
2	2	P0300-198	FITTING, 12MB-08FPX90
3	1	P0300-060	PLUG, 10MB
4	4	P0031-04-009	CAP SCREW, Socket Head, 1/4 UNC x 2.25
5	3	P0300-223	FITTING, 06MJ-10MB
6*	1	P0302-156	VALVE (includes item 6a)
6a	2	P0302-156A	HANDLE
7	3	A10311A-060	ASSEMBLY, Hose 3/8 x 60
8	2	P0300-125	FITTING, 06MJ-04MP90

* Seal Kit P0302-156B

DUAL RAM ASSEMBLY - 400 TON, 006165A01
5000 PUMP UNIT
(SN PU5050-27 Thru PU5050-49) (Part of Assembly 016281A)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	006165A01	DUAL RAM ASSEMBLY - 400 Ton
1.1	3	P0200-077	HOSE, 1/2 x 38 (SN PU5050-27 Thru 44)
1.2	3	A10321A-038	HOSE, 1/2 x 38 ORF (SN PU5050-45)
1.3	2	A10323A-038	HOSE, 1/2 x 38 (SN PU5050-46 Thru 49)
1.4	1	A10321A-038	HOSE, 1/2 x 38 ORF (SN PU5050-46 Thru 49)
2	1	P0508-035	HOSE, 1/2 x 35
3	4	006006P01	MOUNT, Ram Clevis
4.1*	2	005470A00	CYLINDER, 200 Ton Ram (SN PU5050-27 Thru 45)
4.2*	2	016311A	CYLINDER, 200 Ton Ram, ORB (SN PU5050-46 Thru 49)
5.1	2	006149P00	ELBOW, Street (SN PU5050-27 Thru 44)
5.2	2	P0300-340	ELBOW, 8 MFS x 8 MP -90 Deg (SN PU5050-45)
5.3	2	P0300-375	FITTING, 8 MFS x 12 MORB (SN PU5050-46 Thru 49)
6	4	P0033-04-012	SET SCREW, Socket Head 1/4-20 UNC x 3/4
7	2	002923P00	PLATE, Ram
8.1**	2	P0300-213	SWIVEL, High Pressure (SN PU5050-27 Thru 44)
8.2	3	P0300-300	FITTING, 8 MFS x 10 MORB (SN PU5050-45)
8.3	2	P0300-382	FITTING, 8 MP x 8 MOFS (SN PU5050-46 Thru 49)
8.4	1	P0300-300	FITTING, 8 MFS x 10 MORB (SN PU5050-46 Thru 49)
9	2	P0045-012	WASHER, Lock 3/4
10.1	1	007335P00	MANIFOLD, High Pressure (SN PU5050-27 Thru 44)
10.2	1	***	MANIFOLD, ORB High Pressure (SN PU5050-45)
10.3	1	***	MANIFOLD, ORB/Pipe High Pressure (SN PU5050-46 Thru 49)
11	2	P0001-12-007	BOLT, 3/4-10 UNC x 1-3/4
12	2	P0001-08-014	BOLT, 1/2-13 UNC x 3-1/2
13*	2	006011A02	CYLINDER, Ram Lift
14	1	P0300-129	UNION, Tube
15	1	P0506-036	HOSE, 3/8 x 36

DUAL RAM ASSEMBLY - 400 TON, 006165A01
5000 PUMP UNIT
(SN PU5050-27 Thru PU5050-49) (Part of Assembly 016281A)

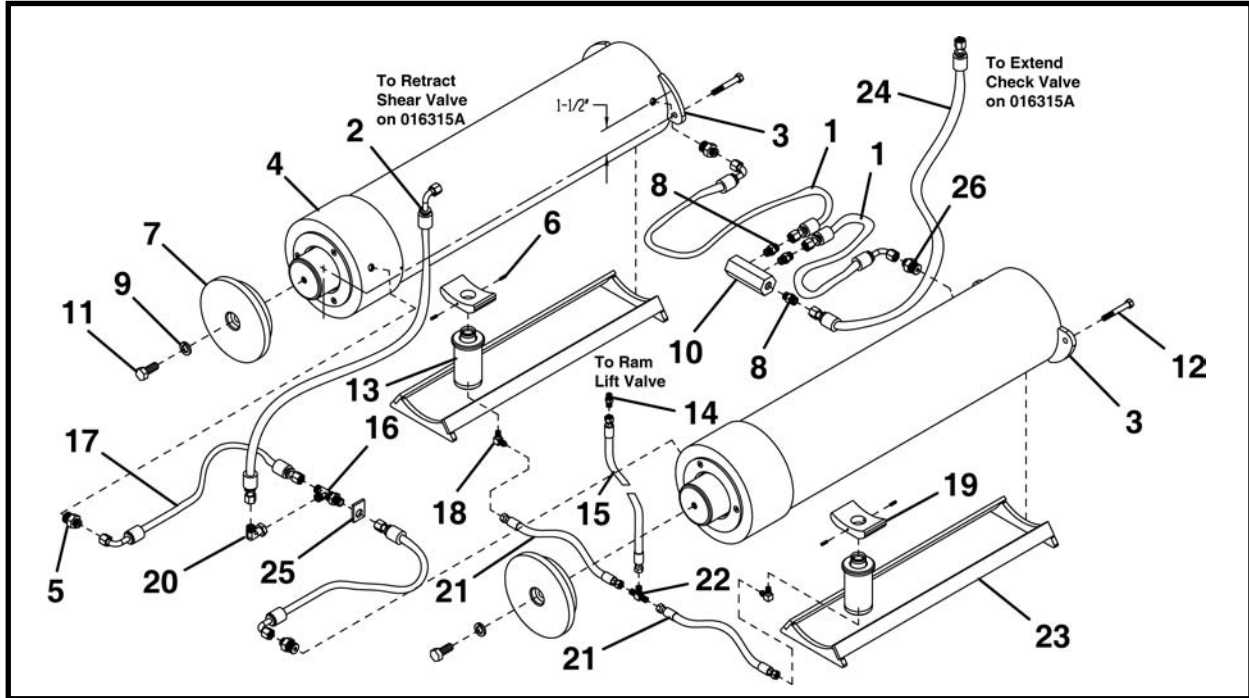
ITEM	QTY	PART NO.	DESCRIPTION
16	1	P0300-016	TEE
17	2	P0508-022	HOSE, 1/2 x 22
18	2	P0300-125	ELBOW
19	2	006724P00	RAM LIFT PAD
20	3	P0300-018	SWIVEL, Elbow
21	2	P0506-020	HOSE, 3/8 x 20
22	1	P0300-138	TEE, Union
23	2	006010A00	RAM SADDLE ASSEMBLY

* Refer to Section 10, Cylinders for parts breakdown.

** These swivels are no longer available. Replace Item 8.1 Swivel PN P0300-213 with quantity 2 of Fitting PN P0300-382 (8 MP x 8 MFS); replace Item 5.1 Elbow PN 006149P00 with quantity 2 of Elbow PN P0300-340 (8 MFS x 8 MP-90); and replace Item 1.1 Hose PN P0200-077 with quantity 2 of Hose PN A10321A-038.

*** This manifold must be replaced with Manifold PN 016306P and quantity 3 of Fitting PN P0300-305 (8 FS x 8 ORB).

DUAL RAM ASSEMBLY - 400 TON, 016305A
5000 PUMP UNIT
(SN PU5050-50 & After) (Part of Assembly 016281A)

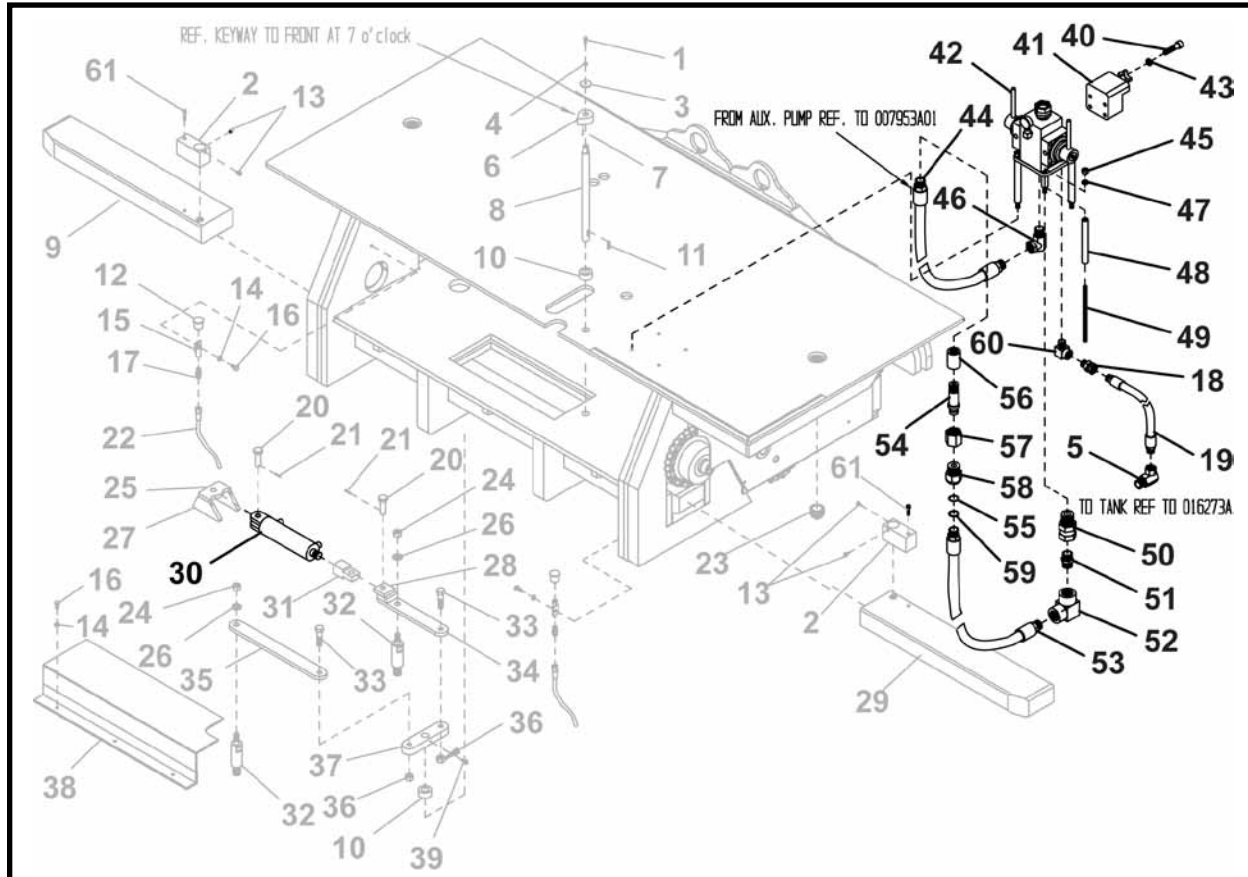


ITEM	QTY	PART NO.	DESCRIPTION
0	1	016305A	DUAL RAM ASSEMBLY - 400 Ton
1	2	A10323A-038	ASSEMBLY, Hose 1/2 x 38
2	1	A10323A-035	ASSEMBLY, Hose 1/2 x 35
3*	4	006006P02	MOUNT, Ram Clevis
4	2	016311A	CYLINDER, 200 Ton Ram, ORB
5	2	P0300-375	FITTING, 08MFOR x 12MB
6	4	P0033-04-012	SET SCREW, Socket Head 1/4 UNC x .75
7	2	002923P00	CAP, Ram
8	3	P0300-305	FITTING, 08MFOR x 08MB
9	2	P0045-012	WASHER, Lock 3/4
10	1	016306P	MANIFOLD, High Pressure
11	2	P0001-12-007	BOLT, 3/4 UNC x 1.75
12	2	P0001-08-014	BOLT, 1/2 UNC x 3.5
13*	2	006011A02	CYLINDER, Ram Lift
14	1	P0300-129	FITTING, 06MJ-06MJ
15	1	A10311A-036	ASSEMBLY, Hose 3/8 x 36
16	1	P0300-303	FITTING, 08MFOR-08MFOR-BKHD-08MFOR
17	2	A10323A-026	ASSEMBLY, Hose 1/2 x 26
18	2	P0300-125	FITTING, 06MJ-04MP90
19	2	006724P00	PAD, Ram Lift
20	1	P0300-317	FITTING, 08MFOR-08FFORX90
21	2	A10311A-020	ASSEMBLY, Hose 3/8 x 20
22	1	P0300-138	FITTING, 06MJ-06MJ-06MJ
23	2	006010A00	RAM SADDLE ASSEMBLY
24	1	A10321A-038	ASSEMBLY, Hose 1/2 x 38
25	1	016317P	BRACKET, Fitting
26	2	016734P	FITTING

* Weld item #3, ram clevis mount, to #4, cylinder barrel, rotating clevis mount hole 1.5" from centerline of hole on barrel (see illustration). Hole on barrel must be facing up while barrel is mounted in assembly.

NOTES

DOG CONTROL ASSEMBLY HYDRAULICS, 005053A02
5000 PUMP UNIT
(Part Of Assembly 016281A)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	005053A02	DOG CONTROL ASSEMBLY
1*	REF	-	-
2*	REF	-	-
3*	REF	-	-
4*	REF	-	-
5	1	P0300-105	FITTING, 16MP-12FPX90
6*	REF	-	-
7*	REF	-	-
8*	REF	-	-
9*	REF	-	-
10*	REF	-	-
11*	REF	-	-
12*	REF	-	-
13*	REF	-	-
14*	REF	-	-
15*	REF	-	-
16*	REF	-	-
17*	REF	-	-
18.1	1	P0300-117	SWIVEL, Straight (SN PU5050-27 Thru 49)
18.2	1	P0300-137	SWIVEL, ORB Straight (SN PU5050-50 & After)
19	1	A10330A-032	HOSE, 3/4 x 32
20*	REF	-	-
21*	REF	-	-
22*	REF	-	-
23*	REF	-	-

DOG CONTROL ASSEMBLY HYDRAULICS, 005053A02**5000 PUMP UNIT****(Part Of Assembly 016281A)**

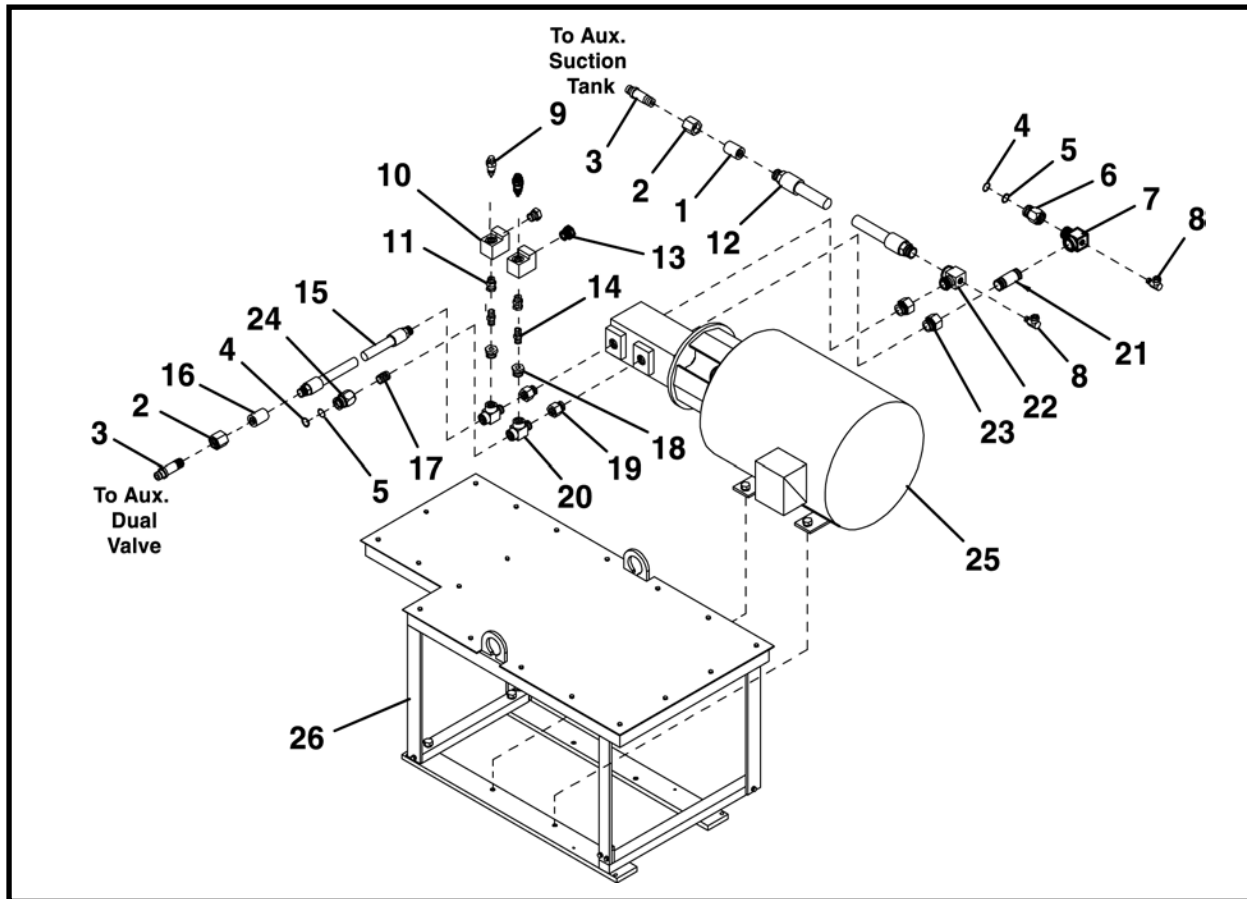
ITEM	QTY	PART NO.	DESCRIPTION
24*	REF	-	-
25*	REF	-	-
26*	REF	-	-
27*	REF	-	-
28*	REF	-	-
29*	REF	-	-
30**	1	006084A00	CYLINDER, Dog Control
31*	REF	-	-
32*	REF	-	-
33*	REF	-	-
34*	REF	-	-
35*	REF	-	-
36*	REF	-	-
37*	REF	-	-
38*	REF	-	-
39*	REF	-	-
40	4	P0031-10-10	SCREW, Socket Head Cap 5/8 UNC x 2-1/2
41	1	P0302-121	VALVE
42.1***	1	002946A00	DUAL VALVE ASSEMBLY (SN PU5050-27 Thru 49)
42.2***	1	002944A	DUAL VALVE ASSEMBLY (SN PU5050-50 & After)
43	4	P0046-010	WASHER, Lock HI-Collar 5/8
44	1	A10340A-100	ASSEMBLY, Hose 1 x 100
45	4	P0003-08-000	NUT, 1/2 UNC
46.1	1	P0300-005	SWIVEL, Elbow (SN PU5050-27 Thru 49)
46.2	1	P0300-052	SWIVEL, ORB Elbow (SN PU5050-50 & After)
47	4	P0045-008	WASHER, Lock 1/2
48	4	016274P	DUAL VALVE STAND-OFF
49	4	016275P	DUAL VALVE MOUNTING ROD
50.1	1	P0300-074	SWIVEL (SN PU5050-27 Thru 49)
50.2	1	P0300-162	SWIVEL, ORB (SN PU5050-50 & After)
51	1	P0300-013	FITTING, 16MP-16MP
52	1	P0300-072	FITTING, 16FP-16FP90-BR
53	1	A10340A-044	ASSEMBLY, Hose 1 x 44
54	1	004901P01	COUPLER
55	1	P0085-123	O-RING
56	1	P0400-005	COUPLING
57	1	004899P00	COUPLER UNION
58	1	004900P00	COUPLER
59	1	P0084-123	BACK-UP RING
60	1	P0300-009	FITTING, 12MP-12FP90 Brazed
61	2	P0001-08-012	BOLT, 1/2 UNC x 3

* Refer to **DOG CONTROL ASSEMBLY STRUCTURALS, 005053A02** in **Section 3, Structural**s.

** Refer to Section 10, Cylinders for parts breakdown. Also, for hydraulic hose connections to this cylinder, refer to Cylinder Valve Assembly, 016260A in this section.

*** Refer to Section 7, Valves for parts breakdown.

HYDRAULIC ASSEMBLY, 007953A01 **AUXILIARY PUMP UNIT**



ITEM	QTY	PART NO.	DESCRIPTION
0	1	007953A01	HYDRAULIC ASSEMBLY
1	1	P0421-012	COUPLER, Reducer
2	2	004901P01	COUPLER
3	2	004899P00	COUPLER UNION
4	2	P0084-123	BACK-UP RING
5	2	P0085-123	ORING
6	1	005348P00	COUPLER
7	1	010142P00	ELBOW, Street
8	2	P0300-018	FITTING, 08MP-08FPX90 Brazed
9	2	P0302-144	CARTRIDGE, Relief Valve
10	2	010129P00	BODY, Relief Valve
11	2	P0300-094	FITTING, 10MB-08FPX
12	52 LI	P0201-141	HOSE, 1-1/4
13	2	008468P00	PLUG
14	2	P0300-048	FITTING, 08MP-08MP
15	48 LI	P0201-140	HOSE, 1
16	1	P0400-005	COUPLING
17	1	P0402-005	NIPPLE
18	2	P0300-078	FITTING, 16MP-08FPS
19	2	P0300-051	FITTING, 16MB-16FP
20	2	P0300-076	FITTING, 16MP-16FP-16FP
21	1	P0408-005	NIPPLE
22	1	010143P00	ELBOW, Street
23	2	P0300-085	FITTING, 20MB-20FP
24	1	004900P00	COUPLER
25	REF	REF	MOTOR, 100 HP
26	REF	REF	CAB & FRAME ASSEMBLY

LI - Linear Inch

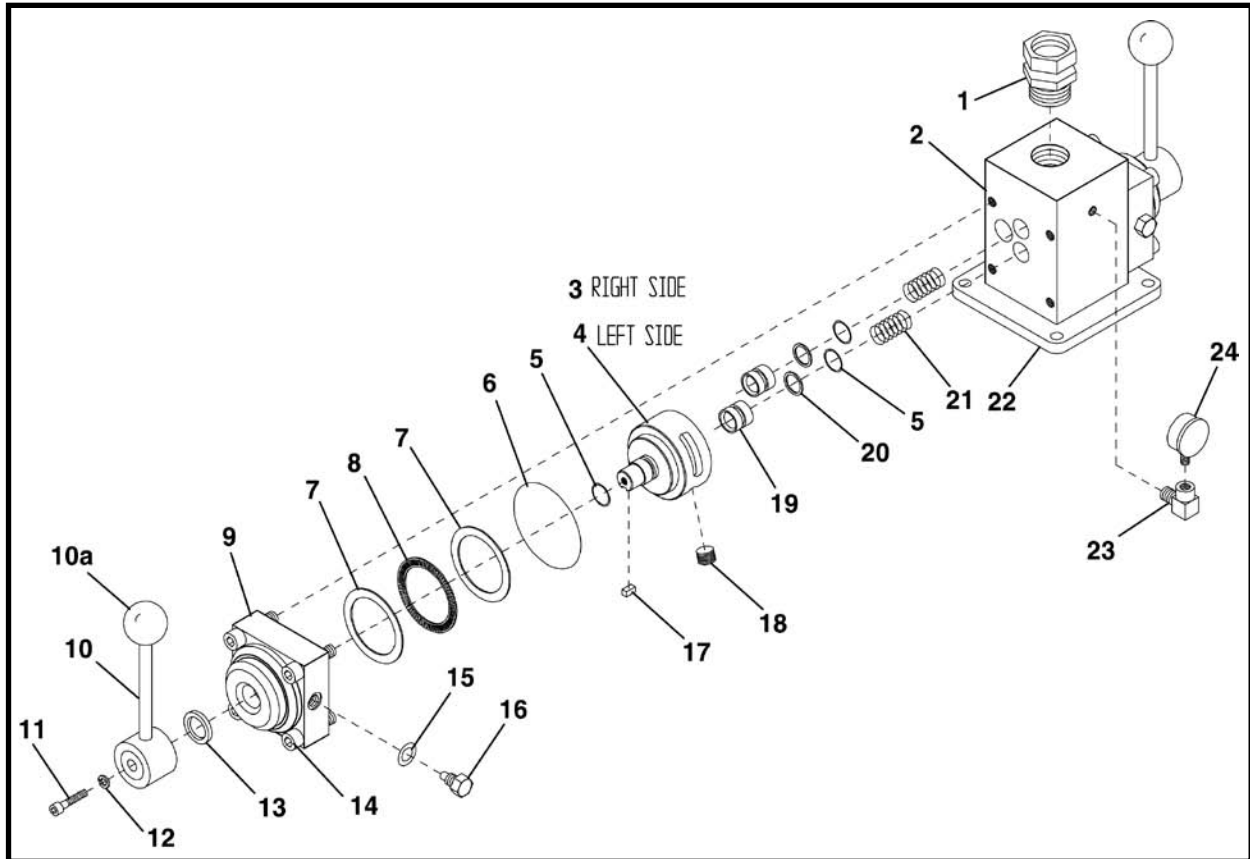


Valves

5000 Pump Unit

Dual Valve Assembly, 002946A00 (SN PU5050-27 Thru 49)	2
Dual Valve Assembly, 002944A (SN PU5050-50 & After)	3
Relief Valve Assembly, 004332A00	4
Shear Relief Valve, 004604A00 (SN PU5050-27 Thru 49)	5
Shear Relief Valve, 016302A (SN PU5050-50 & After)	6
Valve 1500 PSI, P0302-110	7
Valve 2500 PSI, P0302-156	8
Valve 2800 PSI, P0302-145	9
Valve, P0302-121	10
Valve, P0302-129	11
Valve, P0302-135 (SN PU5050-27 Thru 49)	12
Valve, P0302-403 (SN PU5050-50 & After)	13
Valve, P0302-147	14

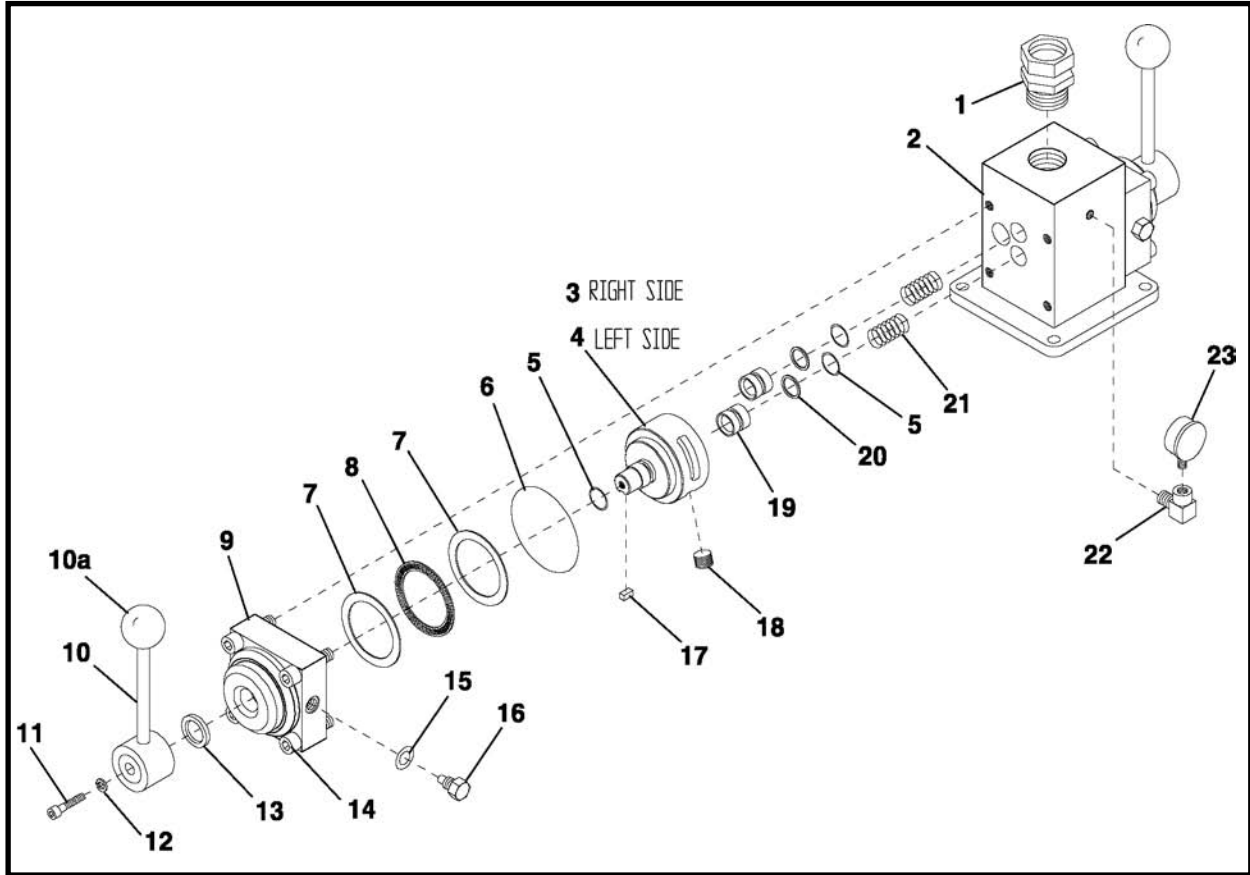
DUAL VALVE ASSEMBLY, 002946A00
5000 PUMP UNIT
(SN PU5050-27 Thru PU5050-49) (Part of Assembly 016267A & 005053A02)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	002946A00	DUAL VALVE ASSEMBLY
1	1	P0300-091	ADAPTER, Swivel 1-1/4 Male
2	1	002948P00	BODY
3	1	002952P00	SPOOL, Right Side
4	1	002951P00	SPOOL, Left Side
5*	6	P0085-117	O-RING
6^	2	P0085-239	O-RING
7	4	P0065-027	RACE
8	2	P0065-026	BEARING
9	2	002950P00	CAP
10	2	002958A00	HANDLE ASSEMBLY (includes item 10a)
10a	2	P0059-009	KNOB
11	2	P0031-05-004	CAP SCREW, Socket Head, 5/16-18 UNC X 1
12	2	P0046-005	WASHER, Lock Hi-Collar
13*	2	P0080-001	WIPER
14	8	P0031-08-008	CAP SCREW, Socket Head, 1/2-13 UNC X 2
15*	2	P0085-905	O-RING
16	2	002959P00	BOLT, Stop
17	2	P0047-003	KEY, 1/4 X 1/4 X 1/2
18	2	P0300-079	PLUG, Hollow Hex 1/2-14 NPT
19	4	002953P00	SPOOL
20*	4	P0084-117	BACKUP RING
21	4	P0070-006	SPRING
22	1	002954P00	PLATE, Mounting
23	1	P0300-164	ELBOW, Street 1/4 90 Deg
24	1	P0301-100	GAUGE, 5000 psi

* Seal Kit 005643A00 includes items 5, 6, 13, 15 and 20.

DUAL VALVE ASSEMBLY, 002944A
5000 PUMP UNIT
(SN PU5050-50 & AFTER) (Part of Assembly 016267A & 005053A02)



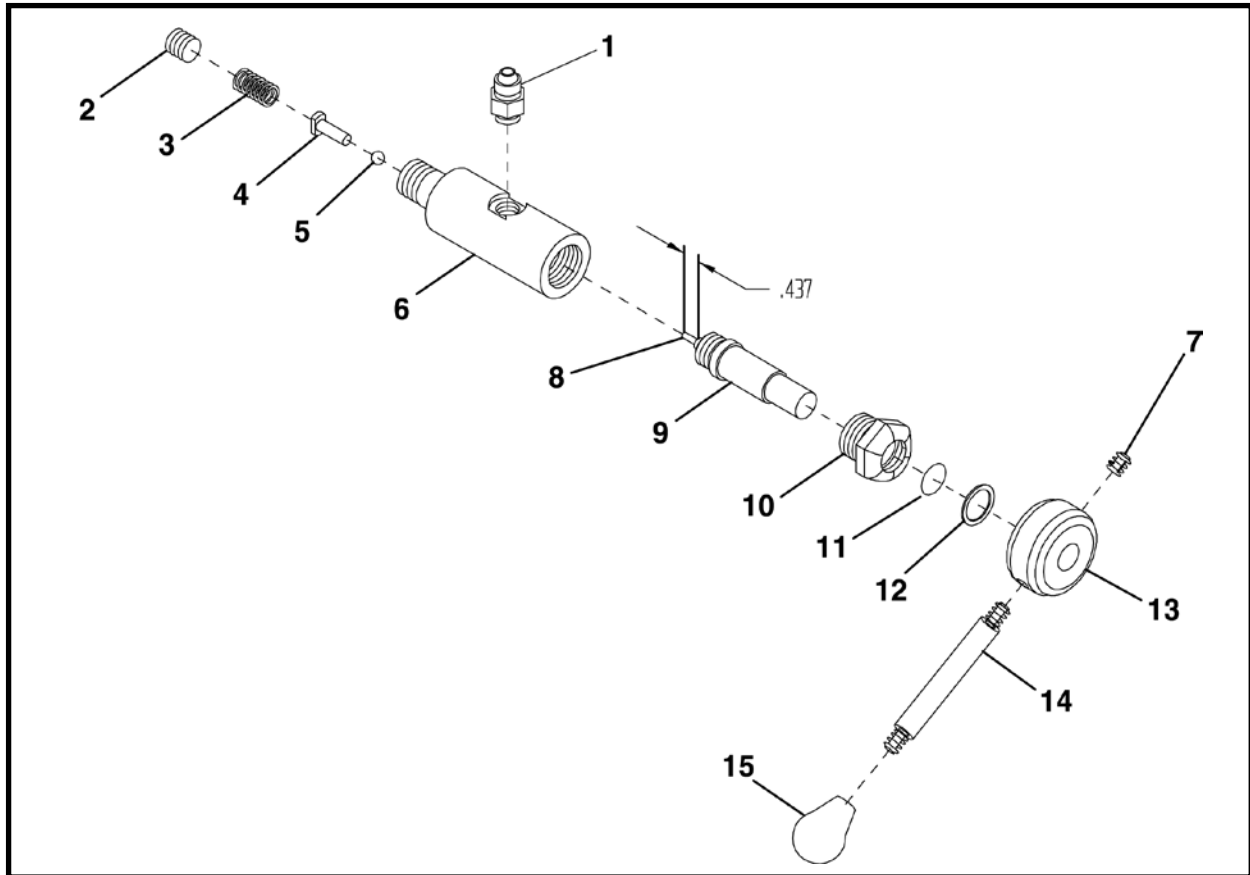
ITEM	QTY	PART NO.	DESCRIPTION
0	1	002944A	DUAL VALVE ASSEMBLY
1	1	P0300-221	FITTING, 20MB-20FPX
2	1	002949A	ASSEMBLY, Dual Valve
3	1	002952P00	SPOOL, Right Side
4	1	002951P00	SPOOL, Left Side
5*	6	P0085-117	O-RING
6*	2	P0085-239	O-RING
7	4	P0065-027	BEARING
8	2	P0065-026	BEARING
9	2	002950P00	CAP
10	2	002958A00	HANDLE ASSEMBLY (includes item 10a)
10a	2	P0059-009	KNOB
11	2	P0031-05-004	CAP SCREW, Socket Head, 5/16 UNC X 1
12	2	P0046-005	WASHER, Lock Hi-Collar 5/16
13*	2	P0080-001	WIPER
14	8	P0031-08-008	CAP SCREW, Socket Head, 1/2 UNC X 2
15*	2	P0085-905	O-RING
16	2	002959P00	BOLT, Stop
17	2	P0047-003	KEY, Square 1/4
18	2	P0300-079	PLUG, 08MP-HHP
19	4	002953P00	SPOOL
20*	4	P0084-117	BACKUP RING
21	4	P0070-006	SPRING
22	1	P0300-164	FITTING, 04MP-04FP90-Brz
23	1	P0301-100	GAUGE, 5000 psi

* Seal Kit 005643A00 includes items 5, 6, 13, 15 and 20.

MANUAL RELIEF VALVE ASSEMBLY, 004332A00

5000 PUMP UNIT

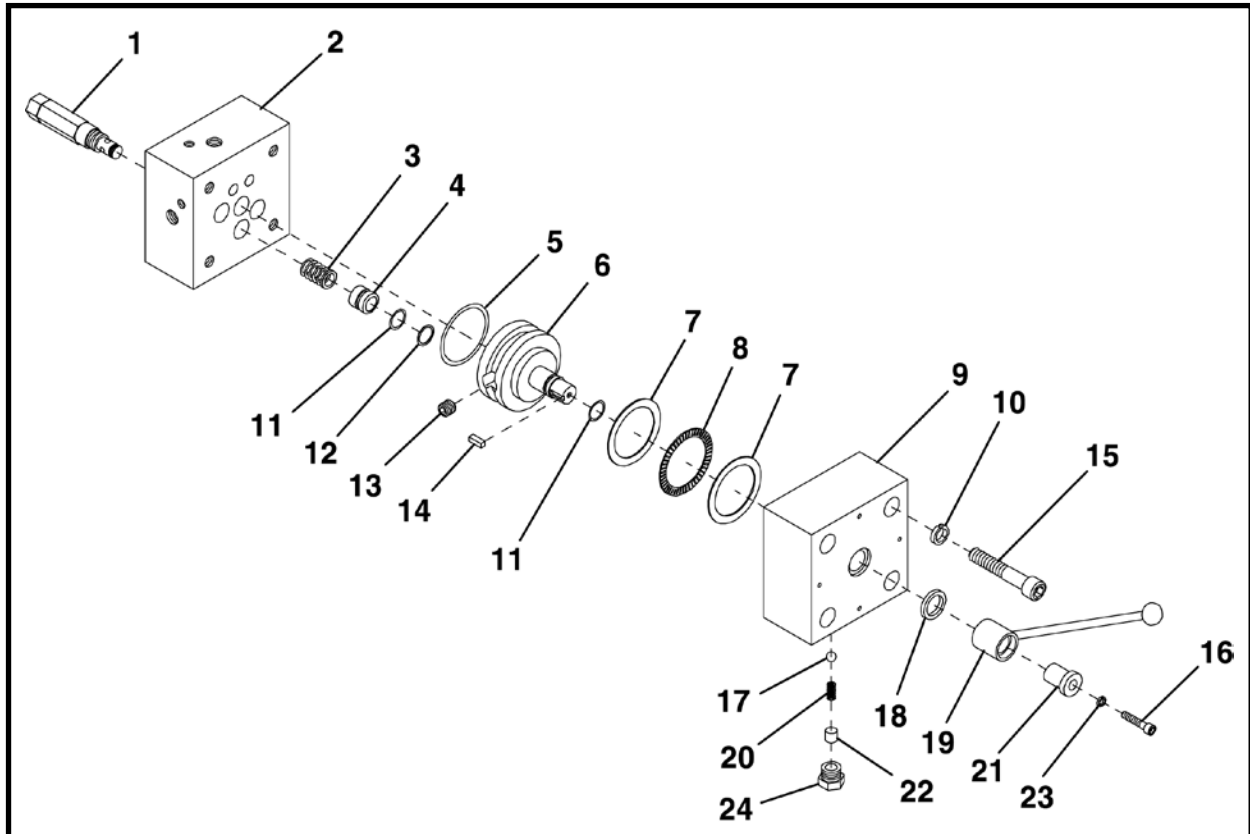
(Part of Assembly 005393A02 & 016315A)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	004332A00	MANUAL RELIEF VALVE ASSEMBLY
1	1	016261P00	RELIEF VALVE
2	1	004330P00	PLUG, Spring Adjustment
3	1	P0070-025	SPRING
4	1	004329P00	PLUNGER
5	1	P0058-005	BALL
6	1	004324P00	VALVE, Cylinder Relief Valve
7	1	P0033-06-008	CAP SCREW, Socket Head 3/8 x 12
8	1	P0065-039	BEARING
9*	1	004325P00	VALVE, Needle Bearing Adjustment
10*	1	004327P00	RELIEF VALVE, End Plug Sleeve
11*	1	P0085-116	O-RING
12*	1	P0084-116	BACKUP RING
13	1	004326P00	HANDLE SPOOL, Relief Valve
14	1	004328P00	ROD, Relief Valve Handle
15	1	P0059-012	KNOB

* Insert item 11 & 12 into item 10. Slide item 10 onto item 9.

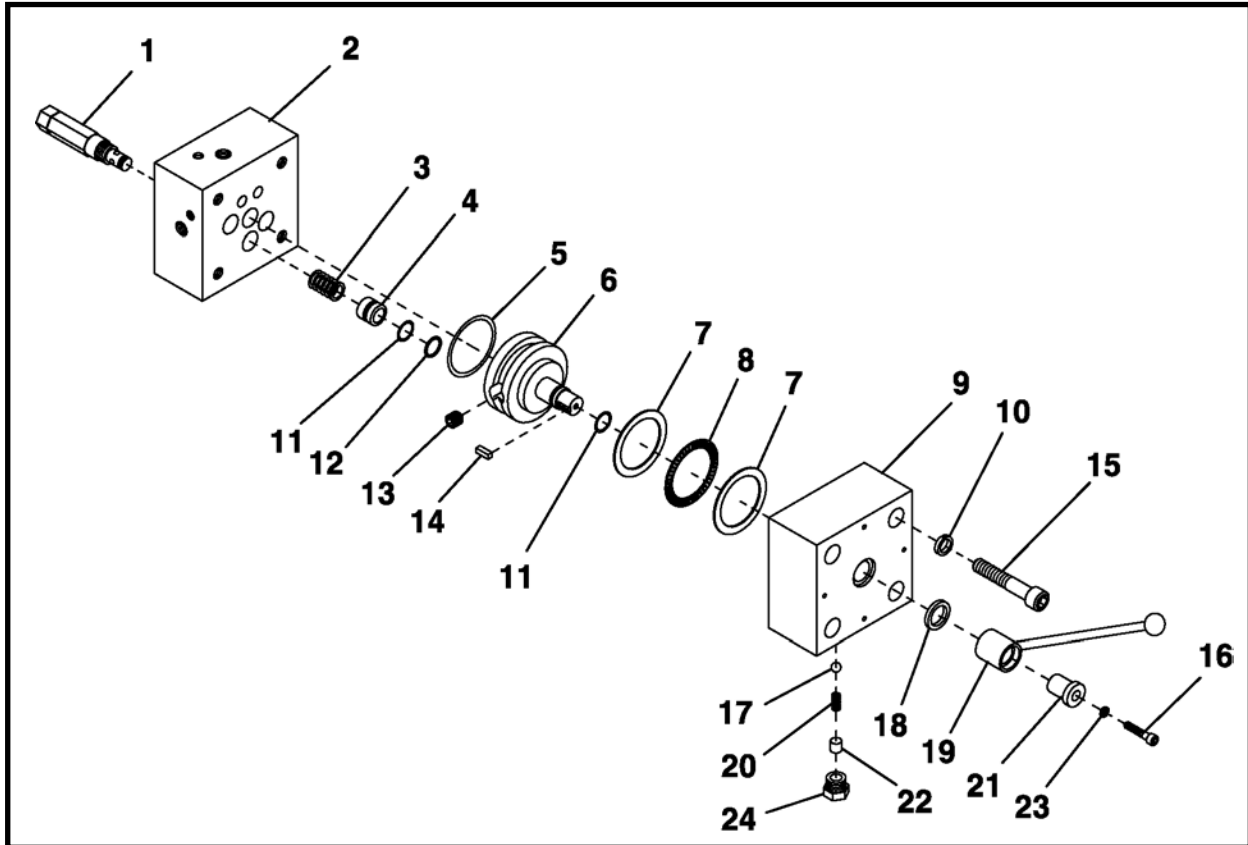
SHEAR RELIEF VALVE ASSEMBLY, 004604A00
5000 PUMP UNIT
(SN PU5050-27 Thru PU5050-49) (Part of Assembly 005393A02)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	004604A00	SHEAR RELIEF VALVE ASSEMBLY
1	1	P0302-129	VALVE
2	1	004605P01	BODY, High Pressure Valve
3	4	P0070-006	SPRING
4	4	002468P00	SPOOL
5*	1	P0085-344	O-RING
6	1	004606P02	VALVE SPOOL
7	2	P0065-027	BEARING RACE
8	1	P0065-026	BEARING
9	1	002010P00	VALVE, High Pressure
10	4	P0046-010	WASHER, Lock Collar 5/8
11*	5	P0085-117	O-RING
12*	4	P0084-117	BACK UP RING
13	1	P0300-176	PLUG, Straight Threaded Hollow Hex 9/16-18
14	1	P0047-003	KEY, Square 1/4 x 1
15	4	P0031-10-014	SCREW, Socket Head Cap, 5/8-11 x 3-1/2
16	1	P0031-05-006	SCREW, Socket Head Cap, 5/16-18 UNC x 1-1/2
17	1	P0058-006	BALL
18*	1	P0080-001	SEAL, Grease Retainer
19	1	002646P01	HANDLE (includes item 19a)
19a	1	P0059-007	KNOB
20	1	P0070-007	SPRING
21	1	002647P00	BUSHING, Handle
22	1	016255P00	PLUG, Filler
23	1	P0046-005	WASHER, Hi-Collar 5/16
24	1	P0300-060	PLUG

* Seal Kit 005644A00 includes items 5, 11, 12, and 18.

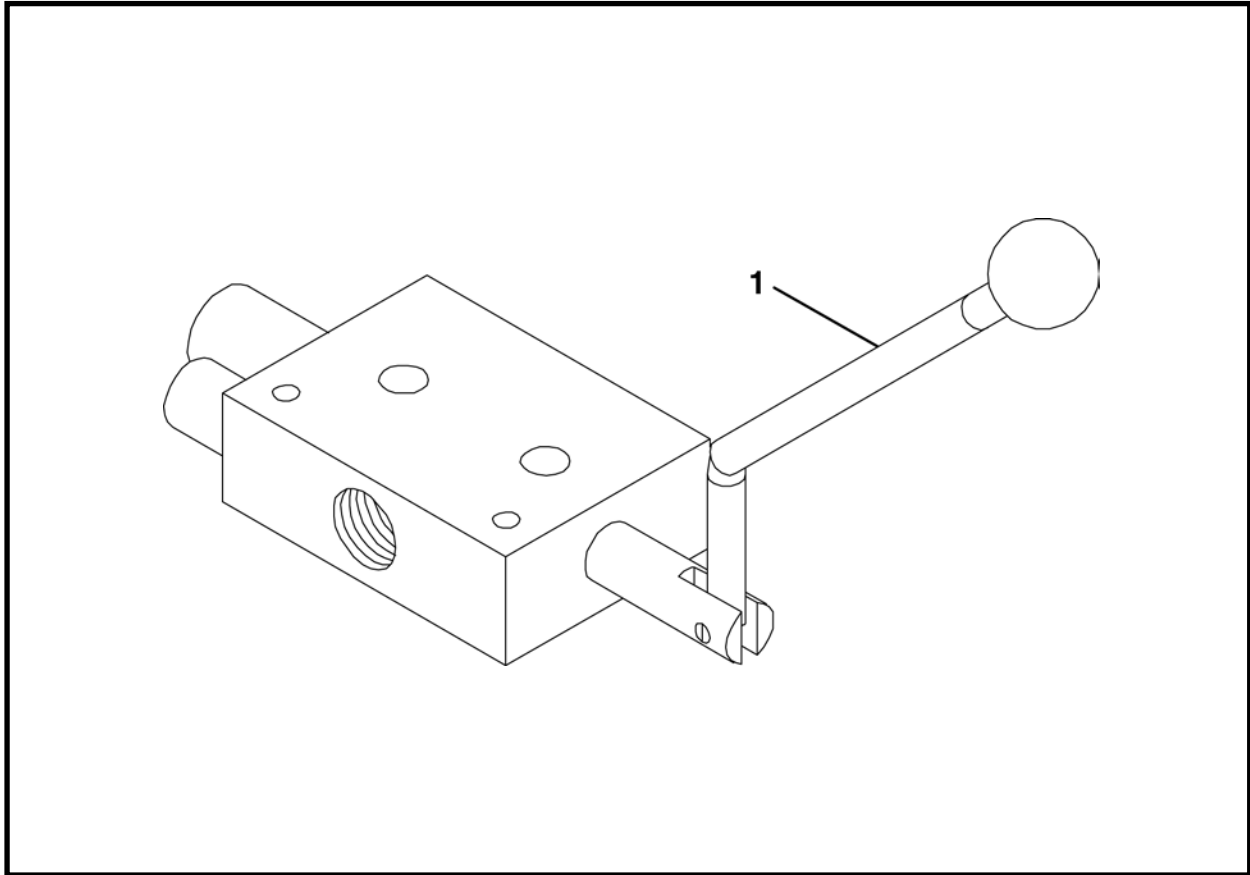
SHEAR RELIEF VALVE ASSEMBLY, 016302A
5000 PUMP UNIT
(SN PU5050-50 & After) (Part of Assembly 016315A)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	016302A	SHEAR RELIEF VALVE ASSEMBLY
1	1	P0302-129	VALVE
2	1	016303P	BODY, High Pressure Valve
3	4	P0070-006	SPRING
4	4	002468P00	SPOOL
5*	1	P0085-344	O-RING
6	1	004606P02	VALVE SPOOL
7	2	P0065-027	BEARING RACE
8	1	P0065-026	BEARING
9	1	002010P00	VALVE, High Pressure
10	4	P0046-010	WASHER, Lock Collar 5/8
11*	5	P0085-117	O-RING
12*	4	P0084-117	BACK UP RING
13	1	P0300-176	PLUG, 10MB-HHP
14	1	P0047-003	KEY, Square 1/4 x 1
15	4	P0031-10-014	SCREW, Socket Head Cap, 5/8 UNC x 3.5
16	1	P0031-05-006	SCREW, Socket Head Cap, 5/16 UNC x 1.5
17	1	P0058-006	BALL
18*	1	P0080-001	SEAL, Grease Retainer
19	1	002646P01	HANDLE (includes item 19a)
19a	1	P0059-007	KNOB
20	1	P0070-007	SPRING
21	1	002647P00	BUSHING, Handle
22	1	016255P00	PLUG, Filler
23	1	P0046-005	WASHER, Hi-Collar 5/16
24	1	P0300-060	PLUG, 10MB

* Seal Kit 005644A00 includes items 5, 11, 12 and 18.

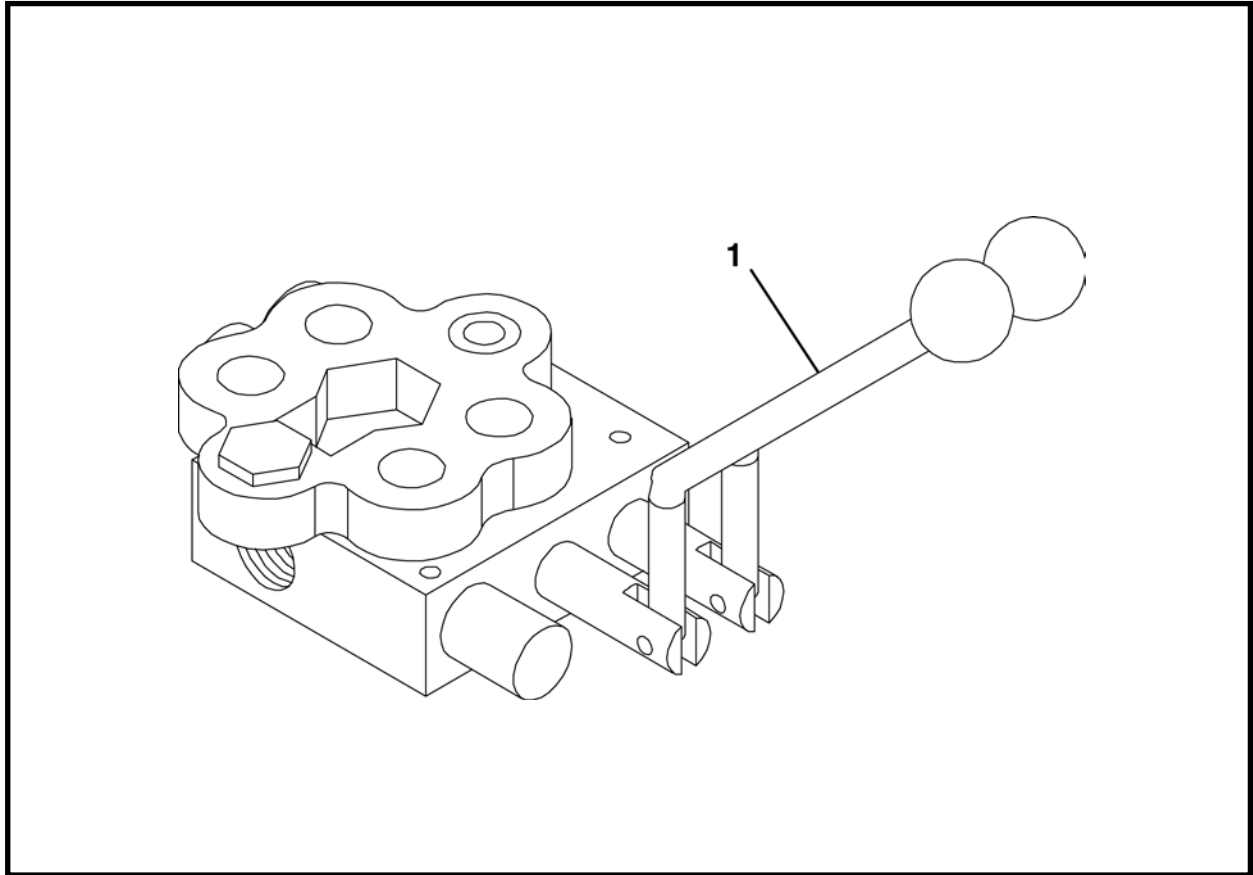
VALVE 1500 PSI, P0302-110
5000 PUMP UNIT
(Part of Assembly 016259A)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0302-110	VALVE 1500 PSI
1	1	003187P00	HANDLE, Valve

Use Seal Kit, P0302-145A.

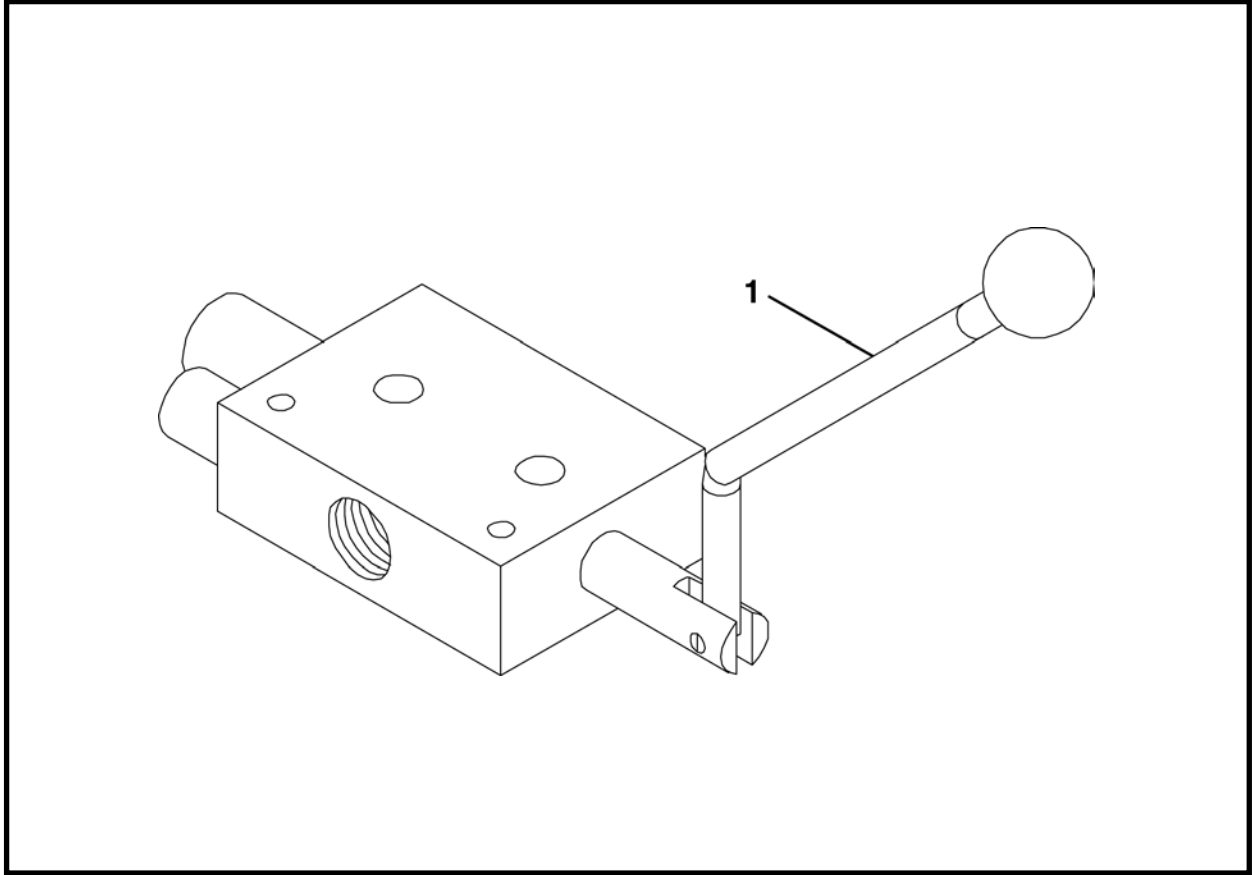
VALVE 2500 PSI, P0302-156
5000 PUMP UNIT
(Part of Assembly 016260A)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0302-156	VALVE 2500 PSI
1	2	P0302-156A	HANDLE w/Knob

Use Seal Kit, P0302-156B.

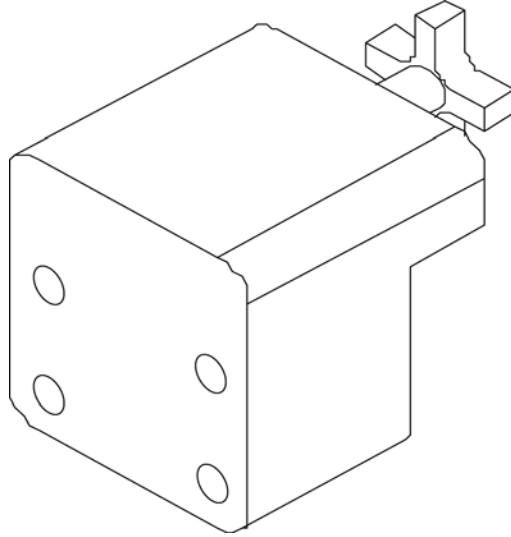
VALVE 2800 PSI, P0302-145
5000 PUMP UNIT
(Part of Assembly 016259A)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0302-145	VALVE 2800 PSI
1	1	003187P00	HANDLE, Valve

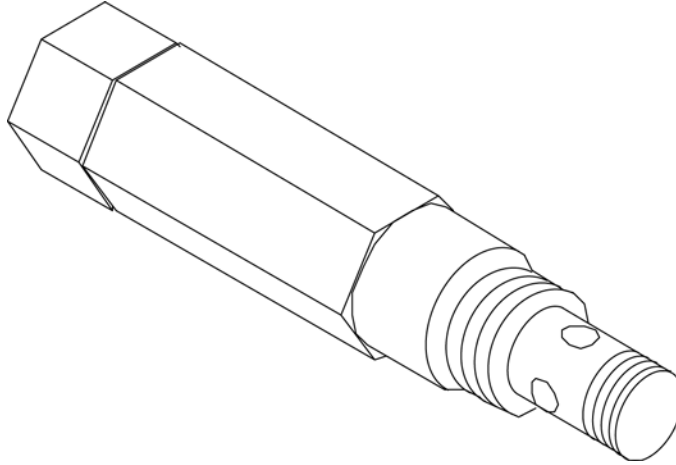
Use Seal Kit, P0302-145A.

VALVE, P0302-121
5000 PUMP UNIT
(Part of Assembly 005053A02)



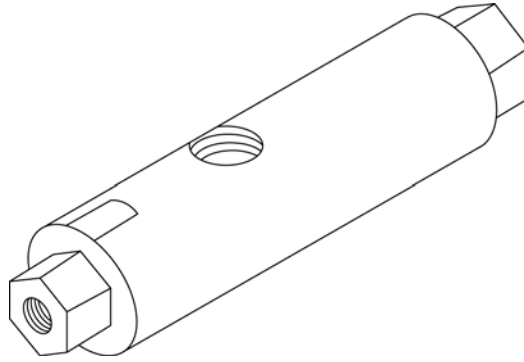
ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0302-121	VALVE
1	1	P0302-121A	COVER, Valve

VALVE, P0302-129
5000 PUMP UNIT
(Part of Assembly 004604A00 & 016302A)



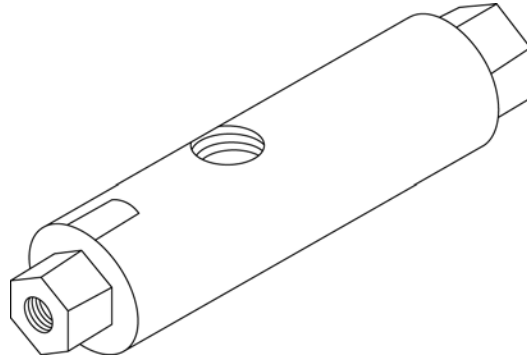
ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0302-129	VALVE

VALVE, P0302-135
5000 PUMP UNIT
(SN PU5050-27 Thru PU5050-49) (Part of Assembly 005393A02)



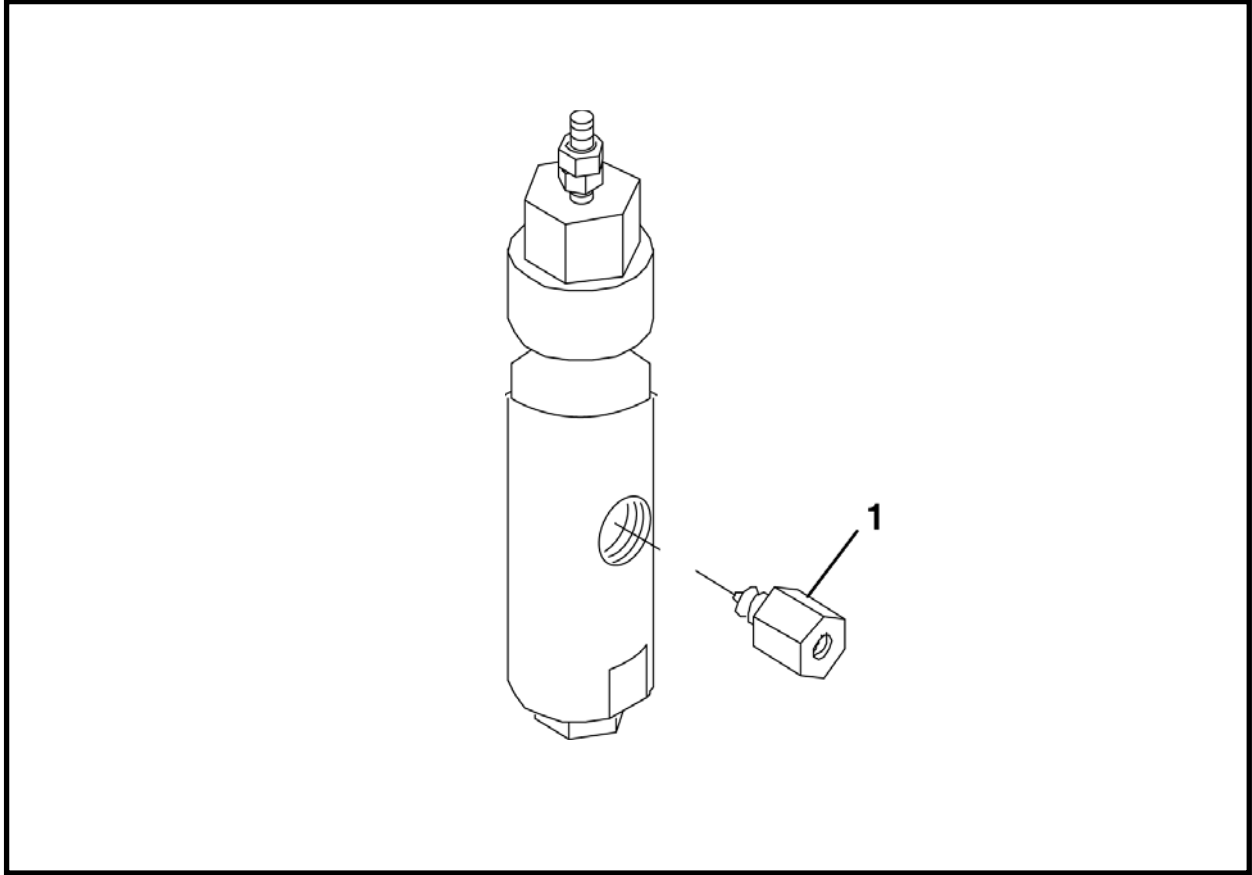
ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0302-135	VALVE

VALVE, P0302-403
5000 PUMP UNIT
(SN PU5050-50 & After) (Part of Assembly 016315A)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0302-403	VALVE

VALVE, P0302-147
5000 PUMP UNIT
(Part of Assembly 005393A02 & 016315A)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0302-147	VALVE
1	1	P0302-147A	RELIEF FITTING



Motors

5000 Pump Unit

Motor, Electric 100HP, P0310-163 (Part of 016268A)	2
Motor, Electric 50HP, P0310-136 (Part of 016257A)	3
Motor, Electric 5HP, P0310-599 (Part of 016257A)	4
Motor, Hydraulic, P0304-100 (Part of 005052A03)	5

Auxiliary Pump Unit

Motor, Electric 100HP, P0310-163 (Part of 007954A00)	6
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MOTOR, ELECTRIC 100 HP, P0310-163
5000 PUMP UNIT
(Part of Assembly 016268A)



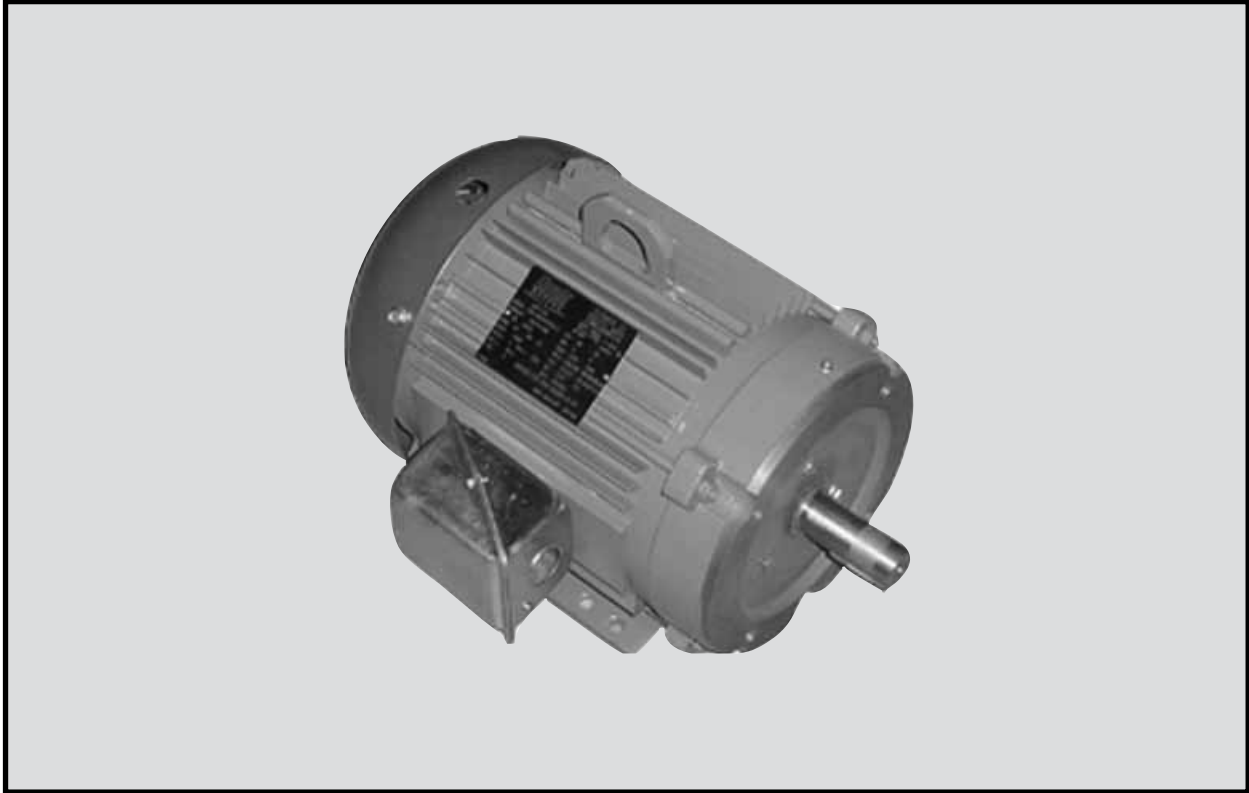
ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0310-163	MOTOR, Electric 100 H.P.

MOTOR, ELECTRIC 50 HP, P0310-136
5000 PUMP UNIT
(Part of Assembly 016257A)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0310-136	MOTOR, Electric 50 H.P.

MOTOR, ELECTRIC 5 HP, P0310-599
5000 PUMP UNIT
(Part of Assembly 016257A)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0310-599	MOTOR, Electric 5 H.P.
1	As Needed	P0310-599A	STARTER
2	As Needed	P0310-599B	CONTACTOR COIL

MOTOR, HYDRAULIC, P0304-100
5000 PUMP UNIT
(Part of Assembly 005052A03)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0304-100	MOTOR, Hydraulic

MOTOR, ELECTRIC 100 HP, P0310-163
AUXILIARY PUMP UNIT
(Part of Assembly 007954A00)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0310-163	MOTOR, Electric 100 H.P.



Pumps

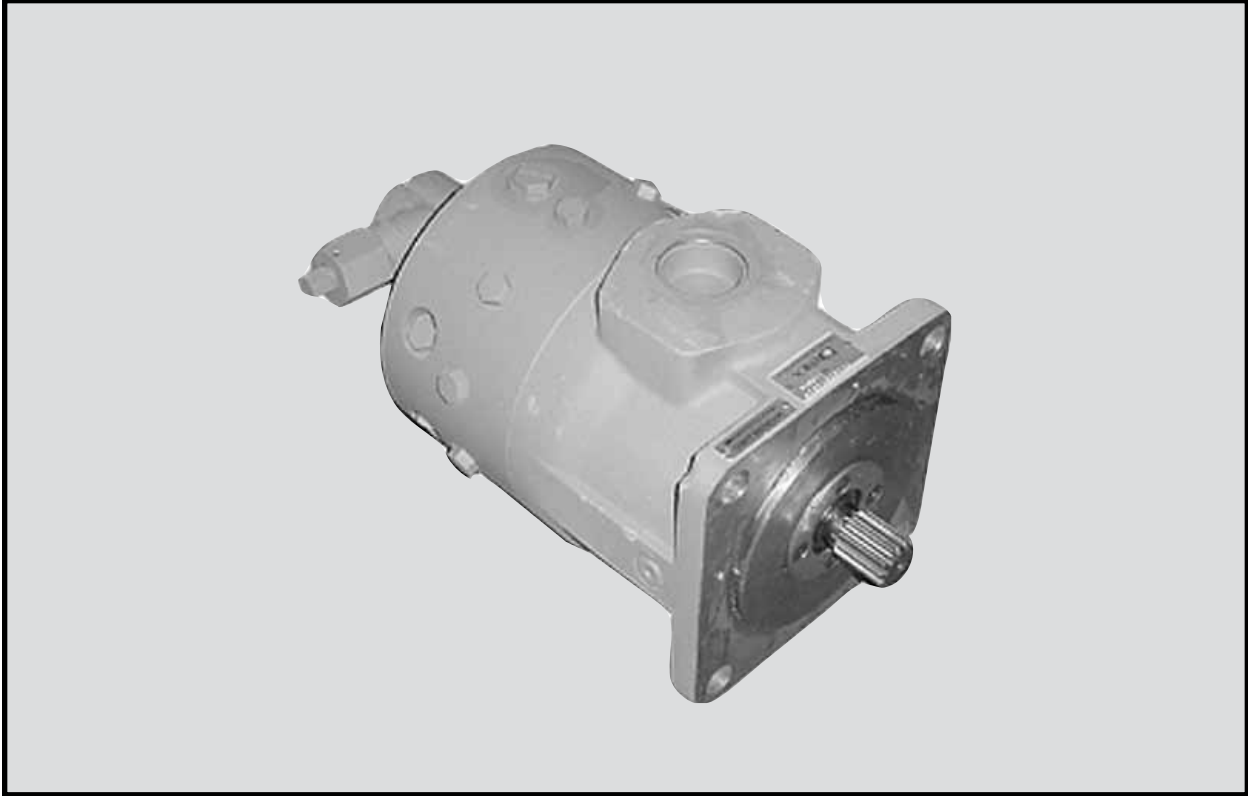
5000 Pump Unit

High Pressure Piston Pump, P0303-227 (Part of 016258A)	2
Gear Pump, P0303-237 (Part of 016258A)	3
Triple Pump, P0303-189 (Part of 016267A)	4

Auxiliary Pump Unit

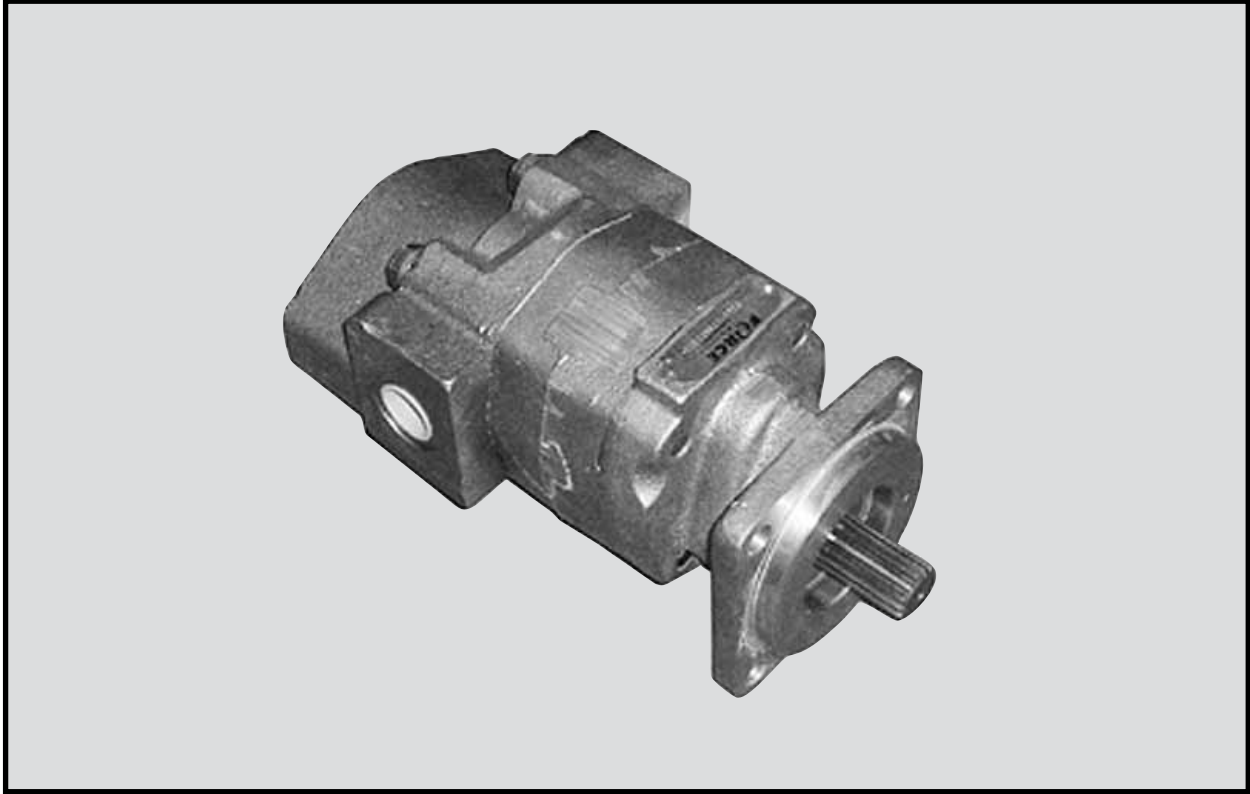
Double Pump, P0303-190 (Part of 007954A00)	5
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PUMP, HIGH PRESSURE PISTON, P0303-227
5000 PUMP UNIT
(Part of Assembly 016258A)



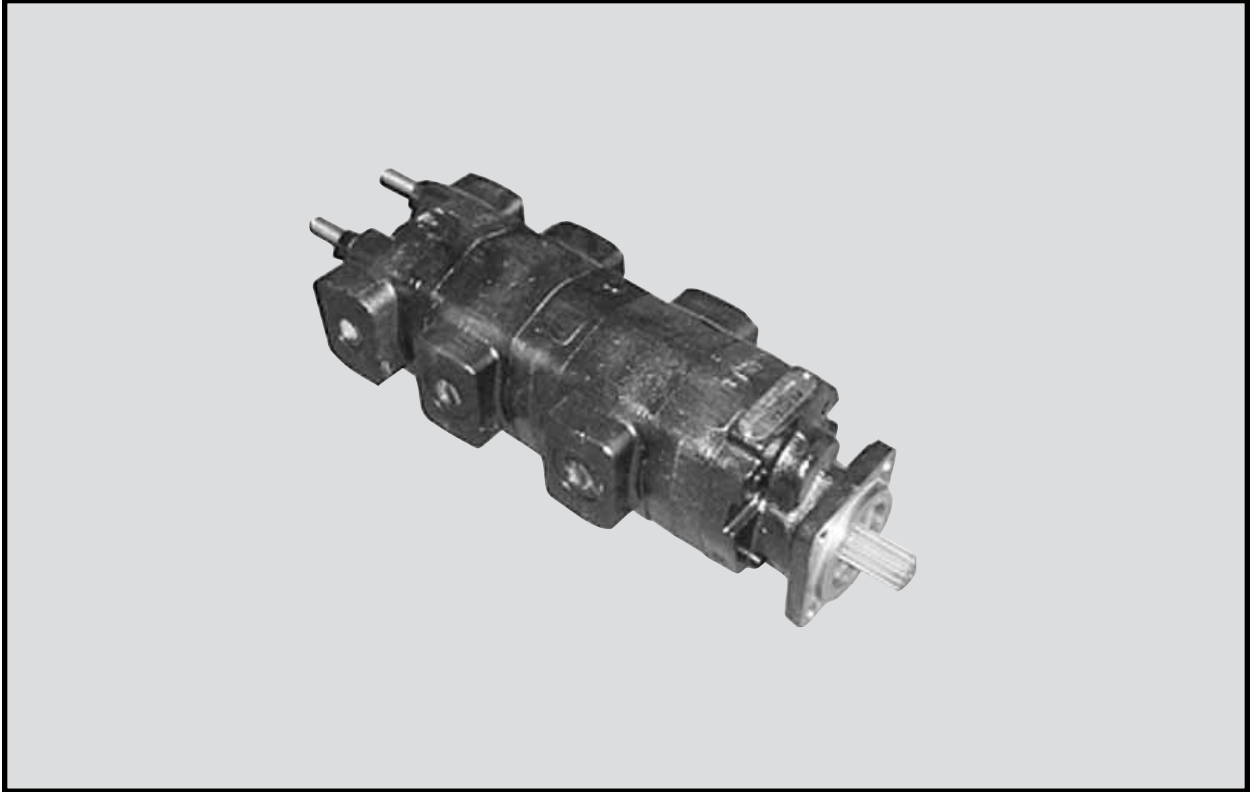
ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0303-227	PUMP, High Pressure Piston

PUMP, GEAR, P0303-237
5000 PUMP UNIT
(Part of Assembly 016258A)



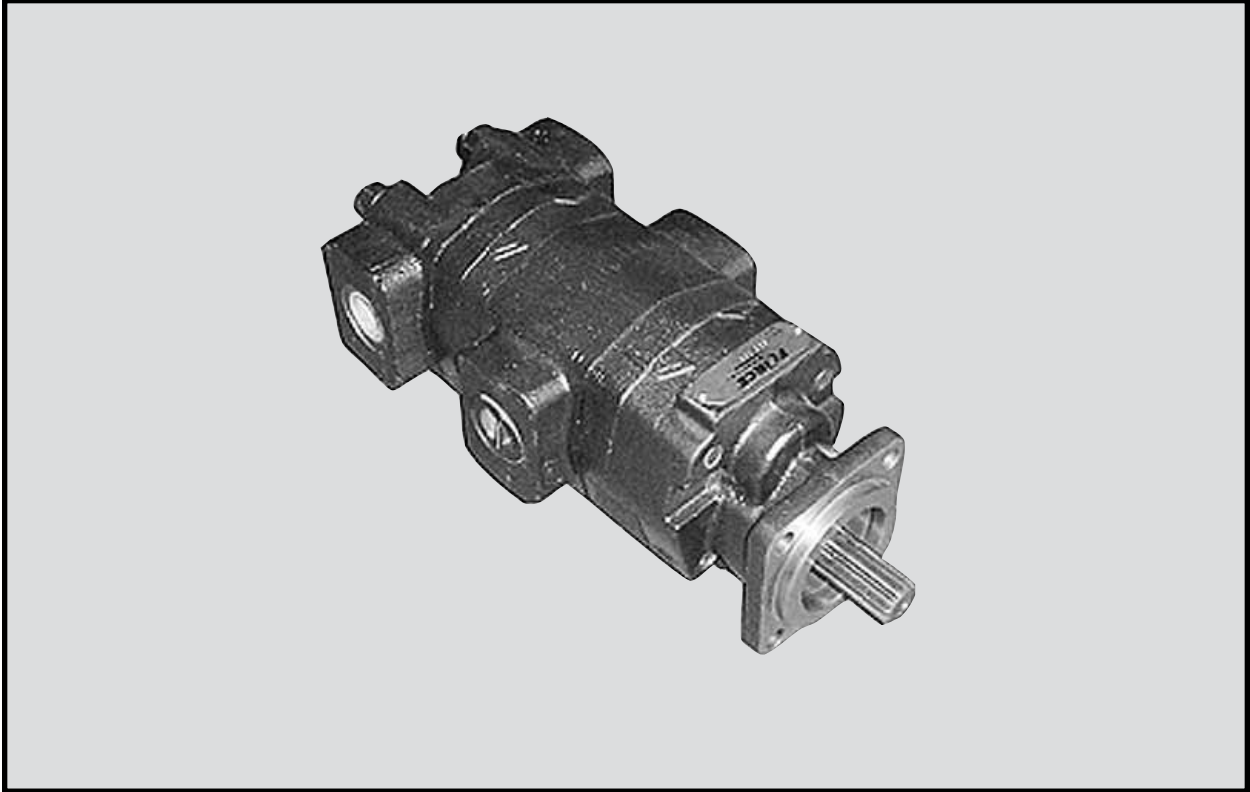
ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0303-237	PUMP, Gear

PUMP, TRIPLE, P0303-189
5000 PUMP UNIT
(Part of Assembly 016267A)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0303-189	PUMP, Triple

PUMP, DOUBLE, P0303-190
AUXILIARY PUMP UNIT
(Part of Assembly 007954A00)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	P0303-190	PUMP, Double

NOTES

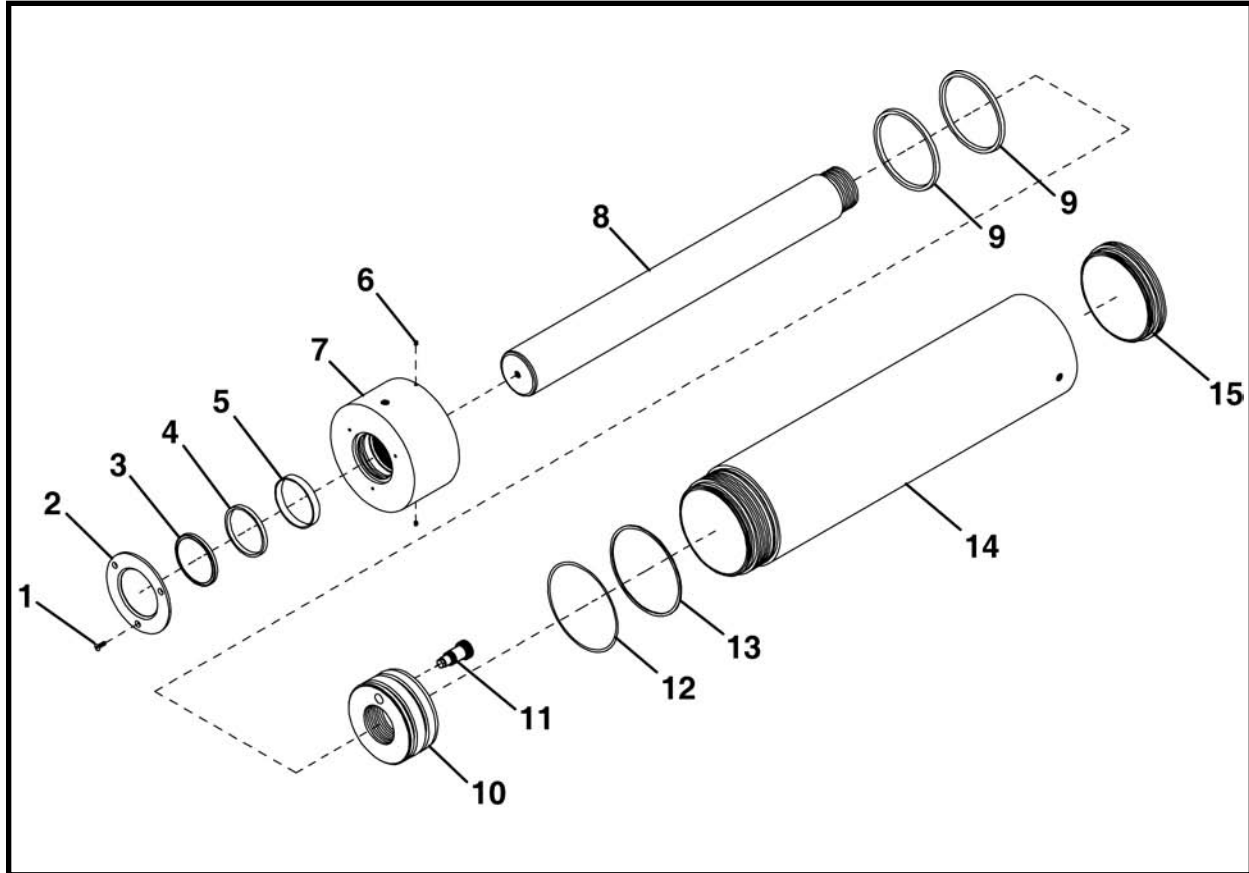


Cylinders

5000 Pump Unit

Cylinder Assembly, 200 Ton, 005470A00 (SN 27 Thru 45) (Part of 006165A01) ...	2
Cylinder Assembly, 200 Ton, 016311A (SN 46 & After) (Part of 016305A)	3
Ram Lift Cylinder Assembly, 006011A02 (Part of 006165A01 & 016305A)	4
Dog Cylinder Assembly, 006084A00 (Part of 005053A02)	5

CYLINDER ASSEMBLY 200 TON, 005470A00
5000 PUMP UNIT
(SN PU5050-27 Thru PU5050-45) (Part of Assembly 006165A01)

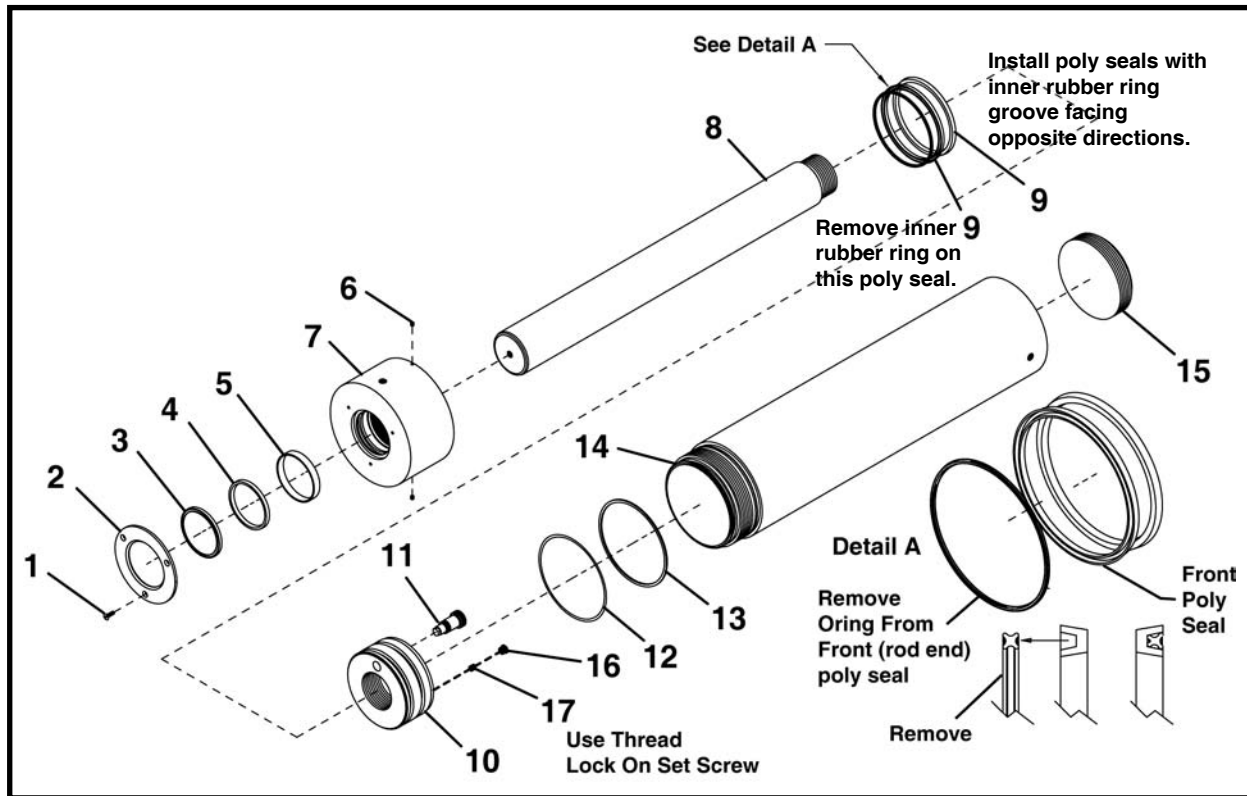


ITEM	QTY	PART NO.	DESCRIPTION
0	1	005470A00	CYLINDER ASSEMBLY
1	3	P0030-05-004	CAP SCREW, Flat Head, 5/16-18 x 1
2	1	006252P00	WIPER RETAINER
3**	1	P0080-004	WIPER
4**	1	P0086-006	SEAL
5**	1	P0088-001	WEAR RING
6	2	P0033-05-005	CAP SCREW, Socket Head, 5/16-18 x 5/16
7	1	005473P01	GLAND
8	1	005105P00	SHAFT
9**	2	P0086-015	SEAL
10	1	005472P01	PISTON
11	1	006258A02	RELIEF CARTRIDGE
12**	1	P0085-446	O-RING
13**	1	P0084-446	BACKUP RING
14*	1	005471P01	BARREL
15*	1	005476P01	PLATE, Butt

* Items 14 and 15 must be ordered together as an assembly.

** Seal Kit, 011834A00, includes items 3, 4, 5, 9, 12, and 13.

CYLINDER ASSEMBLY 200 TON, 016311A
5000 PUMP UNIT
(SN PU5050-46 & After) (Part of Assembly 016305A)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	016311A	CYLINDER ASSEMBLY
1	3	P0030-05-004	CAP SCREW, Flat Head, 5/16 UNC x 1
2	1	006252P00	WIPER RETAINER
3**	1	P0080-004	SEAL RETAINER
4**	1	P0086-006	POLYSEAL
5**	1	P0088-001	WEAR RING
6	2	P0033-05-005	CAP SCREW, Socket Head, 5/16 UNC x 5/16
7	1	016296P	GLAND
8	1	005105P00	SHAFT
9**	2	P0086-015	SEAL
10	1	005472P01	PISTON
11	1	006258A02	RELIEF CARTRIDGE
12**	1	P0085-446	ORING
13**	1	P0084-446	BACKUP RING
14*	1	016297P	BARREL
15*	1	005476P01	PLATE, Butt
16	1	P0300-176	FITTING, 06MB-HHP
17	1	P0033-06-008	SCREW, Socket Set 3/8 UNC x .5

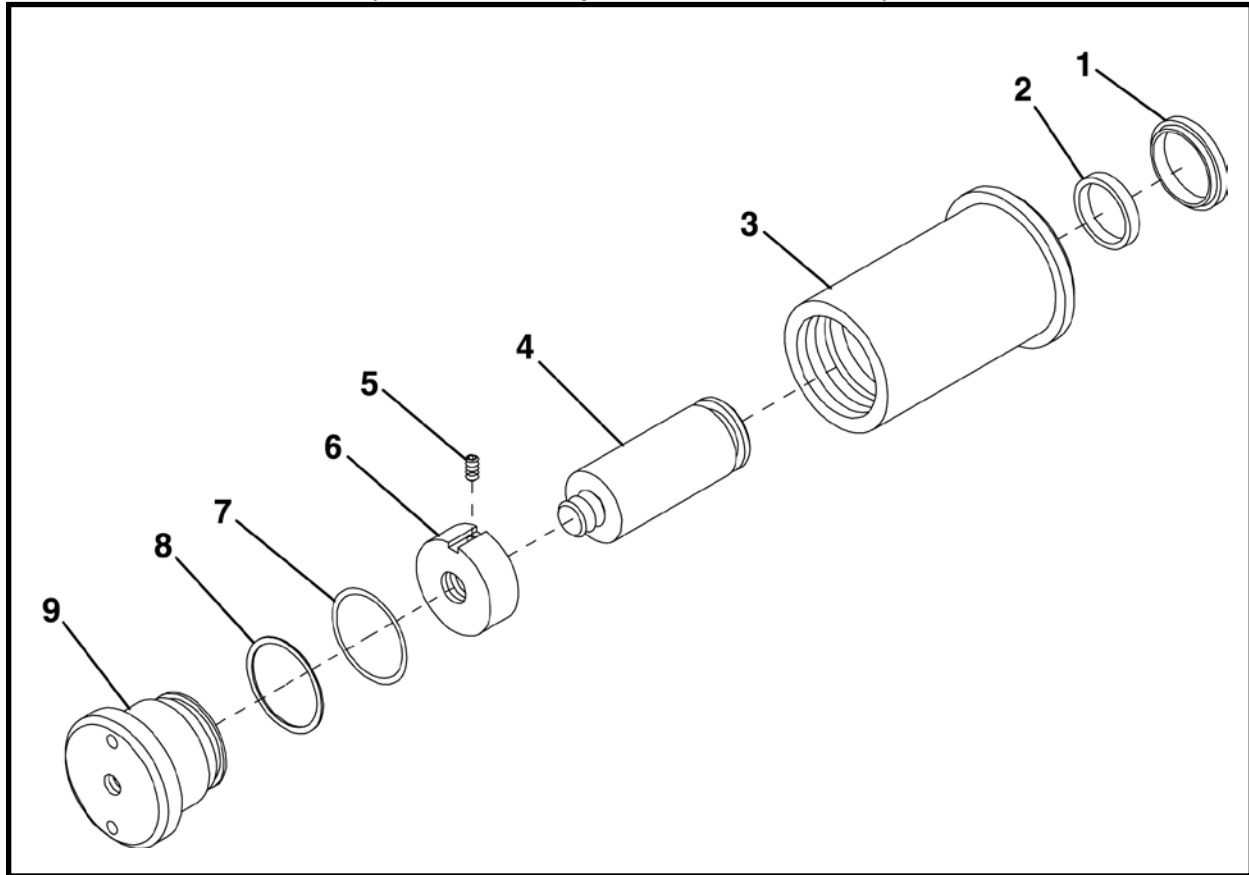
* Items 14 and 15 must be ordered together as an assembly.

** Seal Kit, 011834A00, includes items 3, 4, 5, 9, 12, and 13.

NOTE:

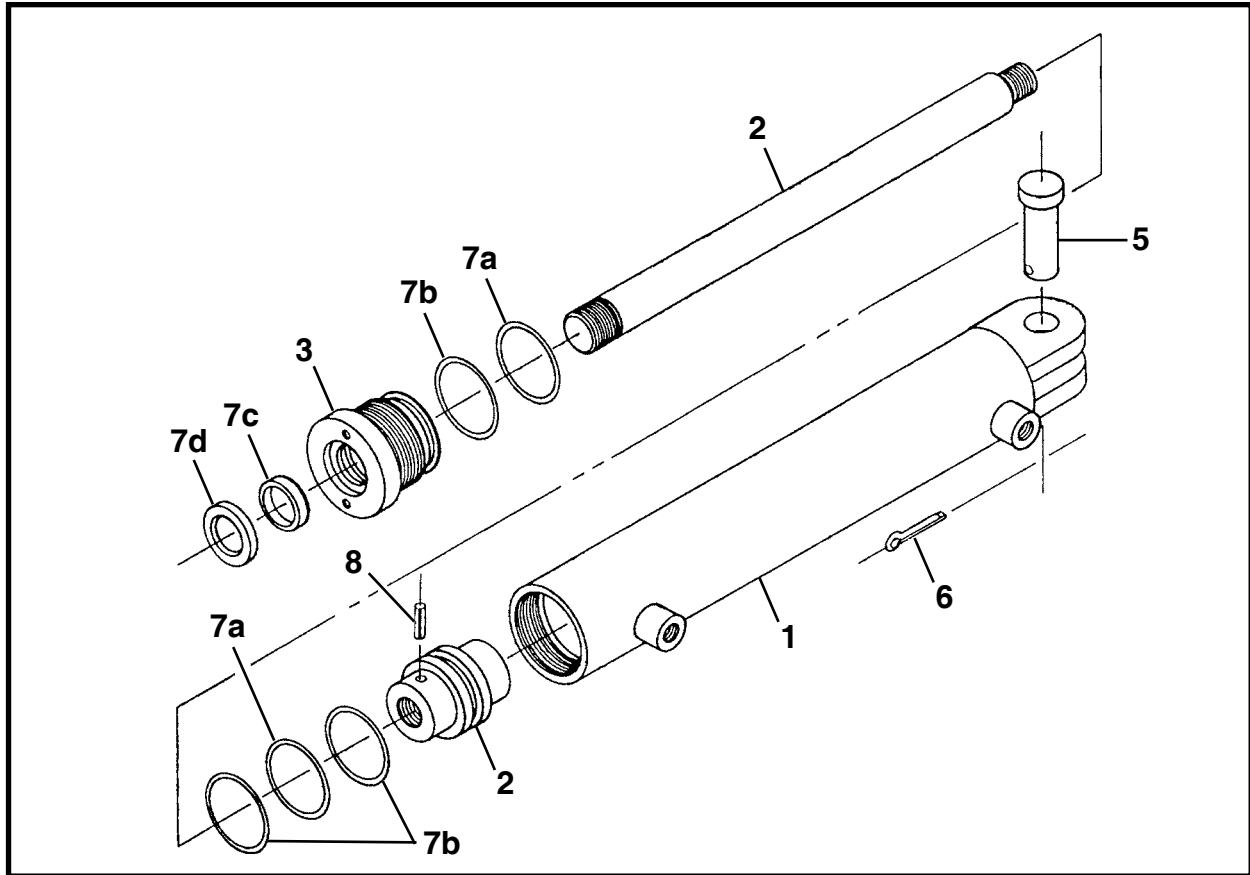
1. Assemble item 10 to item 8, transfer punch hole for set screw and drill a dimple into shaft for seating of set screw in assembly.

RAM LIFT CYLINDER ASSEMBLY, 006011A02
5000 PUMP UNIT
 (Part of Assembly 006165A01 & 016305A)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	006011A02	RAM LIFT CYLINDER ASSEMBLY
1	1	P0087-002	WIPER
2	1	P0086-002	POLYSEAL
3	1	006015P01	BARREL
4	1	006012P02	ROD
5	1	P0033-04-008	SET SCREW, Socket Head, 1/4 UNC x .5
6	1	008279P00	PISTON
7	1	P0085-224	O-RING
8	1	P0084-224	BACKUP RING
9	1	006248P00	BASE

DOG CYLINDER ASSEMBLY, 006084A00
5000 PUMP UNIT
(Part of Assembly 005053A02)



ITEM	QTY	PART NO.	DESCRIPTION
0	1	006084A00	DOG CYLINDER ASSEMBLY
1	1	006085A00	BARREL
2	1	006151P00	PISTON
3	1	006152P00	GLAND
4	1	006086P00	ROD
5	1	002301P00	PIN
6	1	P0048-043	PIN, Cotter 3/16 X 1.5
7	1	005152A00	SEAL KIT (includes items 7a - 7d)
7a	2	P0085-224	O-RING
7b	3	P0084-224	BACKUP RING
7c	1	P0086-001	SEAL
7d	1	P0080-001	WIPER
8	1	P0049-046	PIN, Roll 1/8 X 1.5

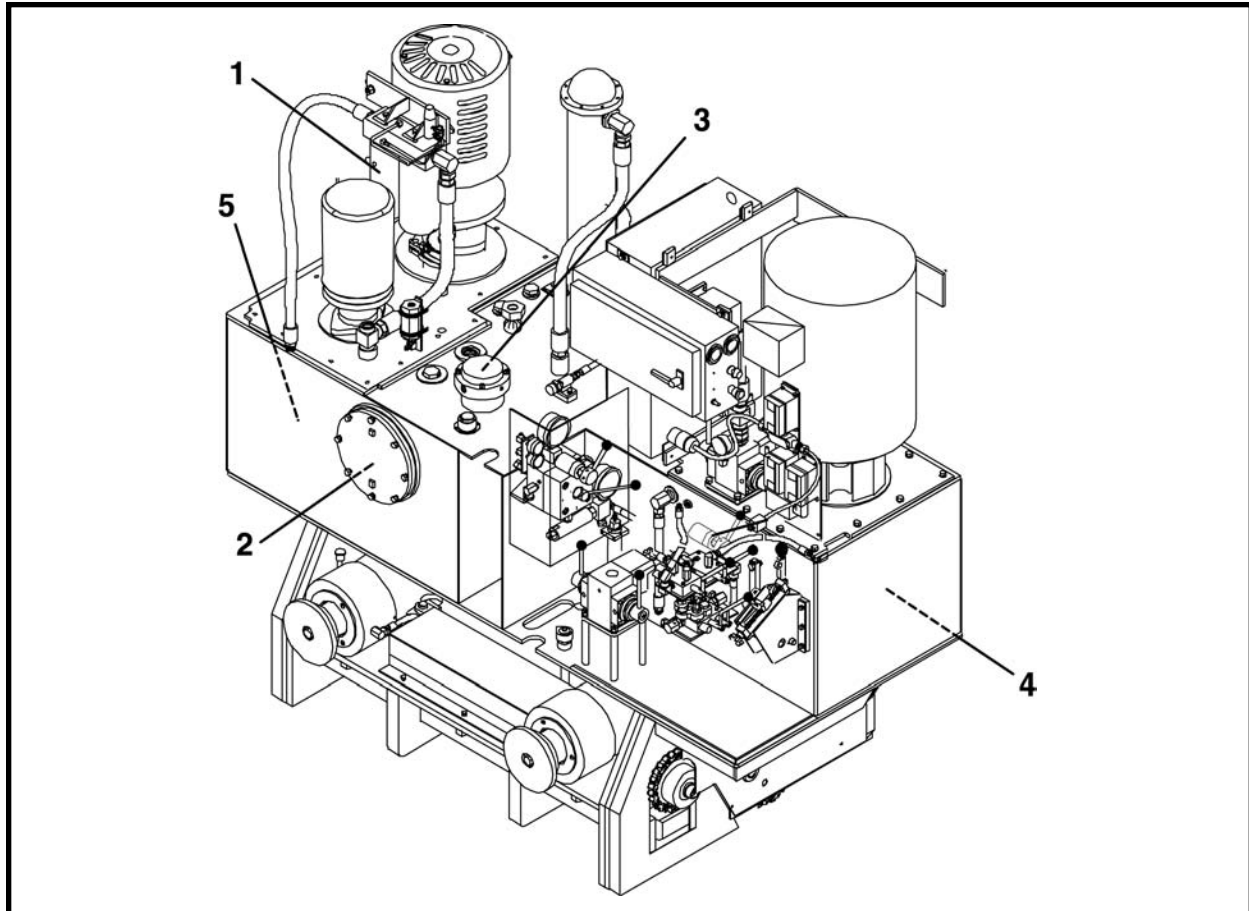
NOTES



Miscellaneous

Filters and Strainers	2
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FILTERS & STRAINERS **5000 PUMP UNIT**



ITEM	QTY	PART NO.	DESCRIPTION
1	2	P0309-172	FILTER ELEMENT
2	8	P0309-102	FILTER ELEMENT
3	2	P0309-102	FILTER ELEMENT
4	3	P0309-117	SUCTION SCREENS
5	1	P0309-153	STRAINER



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