



PARTS AND SPECIFICATIONS



IOWA MOLD TOOLING CO., INC.

BOX 189, GARNER, IA 50438-0189

TEL: 641-923-3711

TECHNICAL SUPPORT FAX: 641-923-2424

MANUAL PART NO: 99903248

DATE	LOCATION	DESCRIPTION OF CHANGE
20010403	8-11	ADDED PAGE OF DRAWING 70733310 / 70731830
	8-12	ADDED PAGE OF DRAWINGS 70143289 & 70145667
	8-13	ADDED PAGE OF DRAWING 51714245
	8-14	ADDED PAGE OF DRAWINGS 51713741 & 51713742
	8-15	ADDED PAGE OF PICTURES OF 51712745,70141126,70731758, & 70143697
	8-16	ADDED PAGE OF PICTURES OF 77040350, 77040107, & 77040238
	8-17	ADDED PAGE OF DRAWING 51711760
20010806	8-1,4,6,7	UPDATED TOC, 70146418 WAS 70146308; 72533654 WAS 70733654
20020528	3-3-7	ECN 8831 - NEW ELEC BOX ASM, HARNESS KIT FOR TRUCK, COMPT LIGHTS

PARTS ORDERING INFORMATION

Before placing an order, take the time to record the following information. This information should then be given to an IMT representative when placing your order.

BODY MODEL NUMBER:

BODY SERIAL NUMBER:

PART NUMBER, DESCRIPTION AND QUANTITY REQUIRED:

If left or right side is applicable, please specify.

Contact IMT at the following address:

IOWA MOLD TOOLING CO., INC.

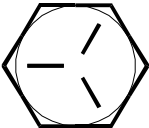
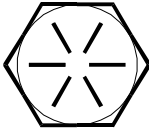
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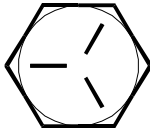
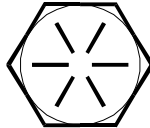
TECHNICAL SUPPORT FAX: 641-923-2424

TORQUE DATA CHART-DOMESTIC

FINE THREAD BOLTS

SIZE (DIA-TPI)	BOLT DIA (INCHES)	TIGHTENING TORQUE			
		 SAE J429 GRADE 5		 SAE J429 GRADE 8	
		PLAIN (FT-LBS)	PLATED (FT-LBS)	PLAIN (FT-LBS)	PLATED (FT-LBS)
5/16-24	0.3125	19	14	27	20
3/8-24	0.3750	35	26	49	35
7/16-20	0.4375	55	41	78	58
1/2-20	0.5000	90	64	120	90
9/16-18	0.5625	120	90	170	130
5/8-18	0.6250	170	130	240	180
3/4-16	0.7500	300	225	420	315
7/8-11	0.8750	445	325	670	500
1-12	1.0000	645	485	995	745
1 1/8-12	1.1250	890	670	1445	1085
1 1/4-12	1.2500	1240	930	2010	1510
1 3/8-12	1.3750	1675	1255	2710	2035
1 1/2-12	1.5000	2195	1645	3560	2670

COARSE THREAD BOLTS

SIZE (DIA-TPI)	BOLT DIA (INCHES)	TIGHTENING TORQUE			
		 SAE J429 GRADE 5		 SAE J429 GRADE 8	
		PLAIN (FT-LBS)	PLATED (FT-LBS)	PLAIN (FT-LBS)	PLATED (FT-LBS)
5/16-18	0.3125	17	13	25	18
3/8-16	0.3750	31	23	44	33
7/16-14	0.4375	49	37	70	52
1/2-13	0.5000	75	57	105	80
9/16-12	0.5625	110	82	155	115
5/8-11	0.6250	150	115	220	160
3/4-10	0.7500	265	200	375	280
7/8-9	0.8750	395	295	605	455
1-8	1.0000	590	445	910	680
1 1/8-7	1.1250	795	595	1290	965
1 1/4-7	1.2500	1120	840	1815	1360
1 3/8-6	1.3750	1470	1100	2380	1780
1 1/2-6	1.5000	1950	1460	3160	2370

When using the torque data in the charts above, the following rules should be observed.

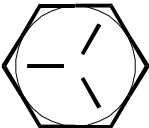
1. Bolt manufacturer's particular specifications should be consulted when provided.
2. Flat washers of equal strength must be used.
3. All torque measurements are given in foot-pounds. To convert to inch-pounds, multiply by 12.
4. Torque values specified are for bolts with residual oils or no special lubricants applied.
If special lubricants of high stress ability, such as Never-Seez compound graphite and oil, molybdenum disulphite, collodial copper or white lead are applied, multiply the torque values in the charts by the factor .90. The use of Loctite does not affect the torque values listed above.
5. Torque values for socket-head capscrews are the same as for Grade 8 capscrews.

WARNING

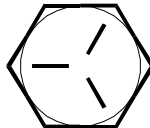
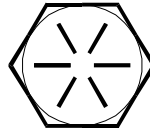
Anytime a gear-bearing bolt is removed, it must be replaced with a new bolt of the identical grade and size. Once a bolt has been torqued to 75% of its proof load and then removed, the torque coefficient may no longer be the same as when the bolt was new thus giving indeterminate clamp loads after torquing. Failure to replace gear-bearing bolts may result in bolt failure due to metal fatigue causing serious injury or DEATH.

TORQUE DATA CHART-METRIC

FINE THREAD BOLTS

SIZE (DIA-TPI)	BOLT DIA (INCHES)	TIGHTENING TORQUE			
					
		SAE J429 GRADE 5		SAE J429 GRADE 8	
		PLAIN (KG-M)	PLATED (KG-M)	PLAIN (KG-M)	PLATED (KG-M)
5/16-24	0.3125	3	2	4	3
3/8-24	0.3750	5	4	7	5
7/16-20	0.4375	8	6	11	8
1/2-20	0.5000	12	9	17	12
9/16-18	0.5625	17	12	24	18
5/8-18	0.6250	24	18	33	25
3/4-16	0.7500	41	31	58	44
7/8-11	0.8750	62	45	93	69
1-12	1.0000	89	67	138	103
1 1/8-12	1.1250	123	93	200	150
1 1/4-12	1.2500	171	129	278	209
1 3/8-12	1.3750	232	174	375	281
1 1/2-12	1.5000	304	228	492	369

COARSE THREAD BOLTS

SIZE (DIA-TPI)	BOLT DIA (INCHES)	TIGHTENING TORQUE			
					
		SAE J429 GRADE 5		SAE J429 GRADE 8	
		PLAIN (KG-M)	PLATED (KG-M)	PLAIN (KG-M)	PLATED (KG-M)
5/16-18	0.3125	2	2	3	2
3/8-16	0.3750	4	3	6	5
7/16-14	0.4375	7	5	10	7
1/2-13	0.5000	10	8	15	11
9/16-12	0.5625	15	11	21	16
5/8-11	0.6250	21	16	30	22
3/4-10	0.7500	37	28	52	39
7/8-9	0.8750	55	41	84	63
1-8	1.0000	82	62	126	94
1 1/8-7	1.1250	110	82	178	133
1 1/4-7	1.2500	155	116	251	188
1 3/8-6	1.3750	203	152	329	246
1 1/2-6	1.5000	270	210	438	328

When using the torque data in the charts above, the following rules should be observed.

1. Bolt manufacturer's particular specifications should be consulted when provided.
2. Flat washers of equal strength must be used.
3. All torque measurements are given in kilogram-meters.
4. Torque values specified are for bolts with residual oils or no special lubricants applied.
If special lubricants of high stress ability, such as Never-Seez compound graphite and oil, molybdenum disulphite, collodial copper or white lead are applied, multiply the torque values in the charts by the factor .90. The use of Loctite does not affect the torque values listed above.
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WARNING

Anytime a gear-bearing bolt is removed, it must be replaced with a new bolt of the identical grade and size. Once a bolt has been torqued to 75% of its proof load and then removed, the torque coefficient may no longer be the same as when the bolt was new thus giving indeterminate clamp loads after torquing. Failure to replace gear-bearing bolts may result in bolt failure due to metal fatigue causing serious injury or DEATH.

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NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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NOTES

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GENERAL SPECIFICATIONS

BODY STRUCTURE

Longsills	8" x 3" x 3/16" Structural Tubing
Crossmembers	4" x 5.4 lb. Structural Channel
Rubrails	5" x 6.7 lb. Structural Channel
Cargo Floor	1/8" 4-Way Diamond Tread Plate
Drip Tube Bumper	8" x 6" Structural Tubing
Mounting System	3/8" Shear Plate - Spring Loaded Tie Downs

STANDARD FEATURES

Rear Service Compartment	Integral part of lube body with 3/8" shear plate gussets. Sloped floor for drainage into bumper. Enclosed hose reel and pump mounting area secured with aluminum roll up door.
Under Body Tool boxes	Constructed of 12ga galvanized steel. Stainless steel hinges & T-handle latches. Automotive bulb type weatherstripping.
Filter Drain Compartment	Under deck steel construction with roll out drain drawer and 10 gallon reservoir.
Electrical – 12VDC	Sealed automotive connectors on braided, vinyl coated nylon harnesses with ink-jet labeled wires. Weather resistant control box with lighted rocker switches.
Safety Equipment	12V back up alarm, ICC safety kit and DOT light and reflector kit.
PTO Powered Hydraulics	Pressure compensated, variable flow piston type hydraulic pump. 1500 PSI operating pressure with minimum flow of 18 GPM.
Product Pumps	Hydraulically driven, fixed clearance gear type pump and motor with a common shaft. Variable flow control with 0-12 GPM delivery rate.
Product Tanks	Constructed of 10 gauge formed steel side walls, 3/16" top plate and wrap around bottom. Interlocking baffle reinforcements, 1" bottom drain and structural steel mounting angles. Includes 2" locking fill caps. External recessed site tube.
Paint Preparation	Body and tanks are acid washed and fresh water rinsed. Hot air drying prior to epoxy grade primer application. Minimum 2-mil Dupont polyurethane baked on finish paint.

DESCRIPTIVE SPECIFICATION

1.0 BODY

1.1 The body shall be constructed of 8" x 3" x 3/16" tubing sills, 4" x 5.4# structural channel members located on 12" centers and 5" x 6.7# structural channel rub rails. Decking shall be constructed of 1/8" floor plate. Body mounting system shall utilize 3/8" fixed shear plates and spring-loaded tie downs to allow the body and chassis to flex independently while the vehicle is in motion.

1.2 The underbody toolbox packages shall consist of one to three underbody toolboxes and one filter drain box. The toolboxes shall be constructed of galvanized steel with stainless steel hinges, T-handle type latches with common keys, reinforcements, and automotive bulb type weather stripping for sealing the doors. Sizes of toolboxes shall be 20", 28", 36" or 52" wide, with standard height of 25" and a depth of 21" to fit chassis and body lengths accordingly.

The filter drain box shall be constructed of steel. The top section is to incorporate an expanded metal drain board. The bottom section is to incorporate a reservoir / catch basin. A door shall provide access to the drain board with a T-handle latch and automotive bulb type weather stripping. The drawer shall be 24" wide X 12" High X 21" deep. This will be located on the left front corner of the lube body.

1.3 The enclosed Rear Dropped Service Compartment shall incorporate a rear tubular style bumper with reel and pump-mounting shelves constructed of galvanized steel. The floor is sloped to route drip oil to the combination bumper and drain pan. The combination bumper and drain pan shall be 8" x 6" rectangular tubing, fitted with a plug, and have the capacity to store approximately 15 gallons of drip oil. The compartment assembly shall tie directly to the chassis frame to provide support. The compartment shall be constructed using galvanized steel reinforcements and braced with 3/8 shear plate / gussets. The finished compartment shall be designed for installation of lights and have an aluminum slatted roll-up door with weather seals and a drip eave.

1.4 The body shall be washed to eliminate oil and surface scale, fresh water rinsed and dried in a hot air environment to insure total drying. The body shall be completely prime-painted with an epoxy grade primer and painted with a DuPont polyurethane finish coat with a minimum of 2-mil paint thickness. The body shall then be furnace-dried to insure proper curing of the paint.

2.0 ELECTRICAL, 12VDC

2.1 All 12V DC in line wiring connections will utilize sealed automotive connectors. Main power will be circuit protected at the source and will be activated via a power distribution relay. Main power and ground cabling will be color-coded and function labeled. All electrical function wiring that exit the Electrical Control Station will have their functions ink-jet printed onto white GXL type wire in three inch intervals. All 12VDC wire harnesses shall be over-braided with high temperature resistant vinyl coated nylon yarn. The harness will be black with yellow striping with a weave tightness of 12 picks / inch. All body lights shall be flush mounted and or recessed for protection.

2.2 Optional twelve-volt adjustable lights may be provided. Lights shall be individually located to provide lighting on all sides of the body and rear reel section and shall be wired to the truck electrical system.

2.3 Electrical Control Station – one (1) weather- resistant control box shall be provided. Each hydraulically driven system and 12VDC light system shall be individually controlled by a lighted environmentally sealed NEMA 4 rated rocker switch. Each switch will be fused in accordance to the rated load it powers.

3.0 OIL SYSTEM

- 3.1 Oil product tanks shall be constructed of steel, formed and welded, with a lockable 2" vented fill cap. The formed bottom plate creates seams where it joins with the side panels and shall include a 1" bottom drain. Mounting flanges with integral mounting holes shall be part of the tank bottom. The tanks shall be mounted on rails incorporated into the floor of the body. The tanks shall be mounted on these rails utilizing a spring system, which will allow the body and tanks to flex independently while the vehicle is in motion.
- 3.2 The oil pumping system: This pump shall be a fixed clearance gear type pump and hydraulic motor with a common shaft. The variable flow product pump shall be equipped with an on/off switch and be capable of a sustained nominal delivery rate of 0-12 GPM.
- 3.3 Oil hose reels will be heavy-duty, high volume type, spring retractable, with a heavy gauge steel frame and dual support arms. The reel shall feature a positive lock and unlock ratchet and shall be equipped with a minimum of 1/2" x 50ft hose and ball stop.

4.0 ANTIFREEZE SYSTEM

- 4.1 The antifreeze product tank shall be constructed of steel, formed and welded, with a lockable 2" vented fill cap. The formed bottom plate creates seams where it joins with the side panels and shall include a 1" bottom drain. Mounting flanges with integral mounting holes shall be part of the tank bottom. The tanks shall be mounted on pre-punched rails incorporated into the floor of the body. The tank shall be mounted on these rails utilizing a spring system, which will allow the body and tanks to flex independently while the vehicle is in motion.
- 4.2 The antifreeze pumping system: This pump shall be a fixed clearance gear type pump and hydraulic motor with a common shaft. The variable flow product pump shall be equipped with an on/off switch and be capable of a sustained nominal delivery rate of 0-12 GPM.
- 4.3 The antifreeze reels will be heavy-duty, high volume type, spring retractable, with a heavy gauge steel frame and dual support arms. The reel shall feature a positive lock and unlock ratchet and shall be equipped with a minimum of 1/2" x 50ft hose and ball stop.

5.0 OIL SYSTEM

- 5.1 Oil Salvage product tank shall be constructed of steel, formed and welded, with a lockable 2" vented fill cap. The formed bottom plate creates seams where it joins with the side panels and shall include a 1" bottom drain. Mounting flanges with integral mounting holes shall be part of the tank bottom. The tank shall be mounted on pre-punched rails incorporated into the floor of the body. The tank shall be mounted on these rails utilizing a spring system, which will allow the body and tanks to flex independently while the vehicle is in motion.
- 5.2 The salvage pumping system: This pump shall be a fixed clearance gear type pump direct coupled to a hydraulic motor with a mounting flange. The variable flow salvage pump shall be equipped with an on/off switch and be capable of a sustained nominal delivery rate of 0-20 GPM. A 25 micron Y-strainer shall be installed in the inlet line of the pump.
- 5.3 Salvage oil reels will be heavy-duty, high volume type, spring retractable, with a heavy gauge steel frame and dual support arms. The reel shall feature a positive lock and unlock ratchet and shall be equipped with a minimum of 1" or 1-1/4" x 35ft hose and ball stop.

6.0 GREASE SYSTEM - 120 POUND

- 6.1 Grease system shall consist of one hydraulic driven high-pressure grease pump. The pump shall be equipped with a flow regulator block, pressure compensator, and on/off switch. A drum cover with tie down rods and drum locator shall be provided.
- 6.2 Grease reel will be heavy-duty, high-pressure hose reel spring retractable, with a heavy gauge steel frame and dual support arms. The reel shall feature a positive lock and unlock ratchet and shall be equipped with a minimum of 3/8" x 50ft hose and ball stop. Reel shall be complete with a control valve and Z swivel.

7.0 AIR SYSTEM

- 7.1 An IMT hydraulic driven model DA435 HA air compressor shall be provided. The compressor shall have a nominal delivery of 35 cfm @ 100 psi with a maximum working pressure of 150 PSI at the pulsation tank. The compressor shall be constructed of high tensile aluminum with cast iron sleeves.
- 7.2 Air reel will be heavy-duty, high-pressure, spring retractable, with a heavy gauge steel frame and dual support arms. The reel shall feature a positive lock and unlock ratchet and shall be equipped with a minimum of 1/2" x 50ft hose and ball stop.

8.0 MAIN HYDRAULIC SYSTEM

- 8.1 The hydraulic system consists of a PTO, pump - integrally mounted on the PTO, filters, hydraulic reservoir, and mounting kit. The PTO assembly shall be mounted directly to the chassis transmission and must be engaged by means of a control located in the cab.

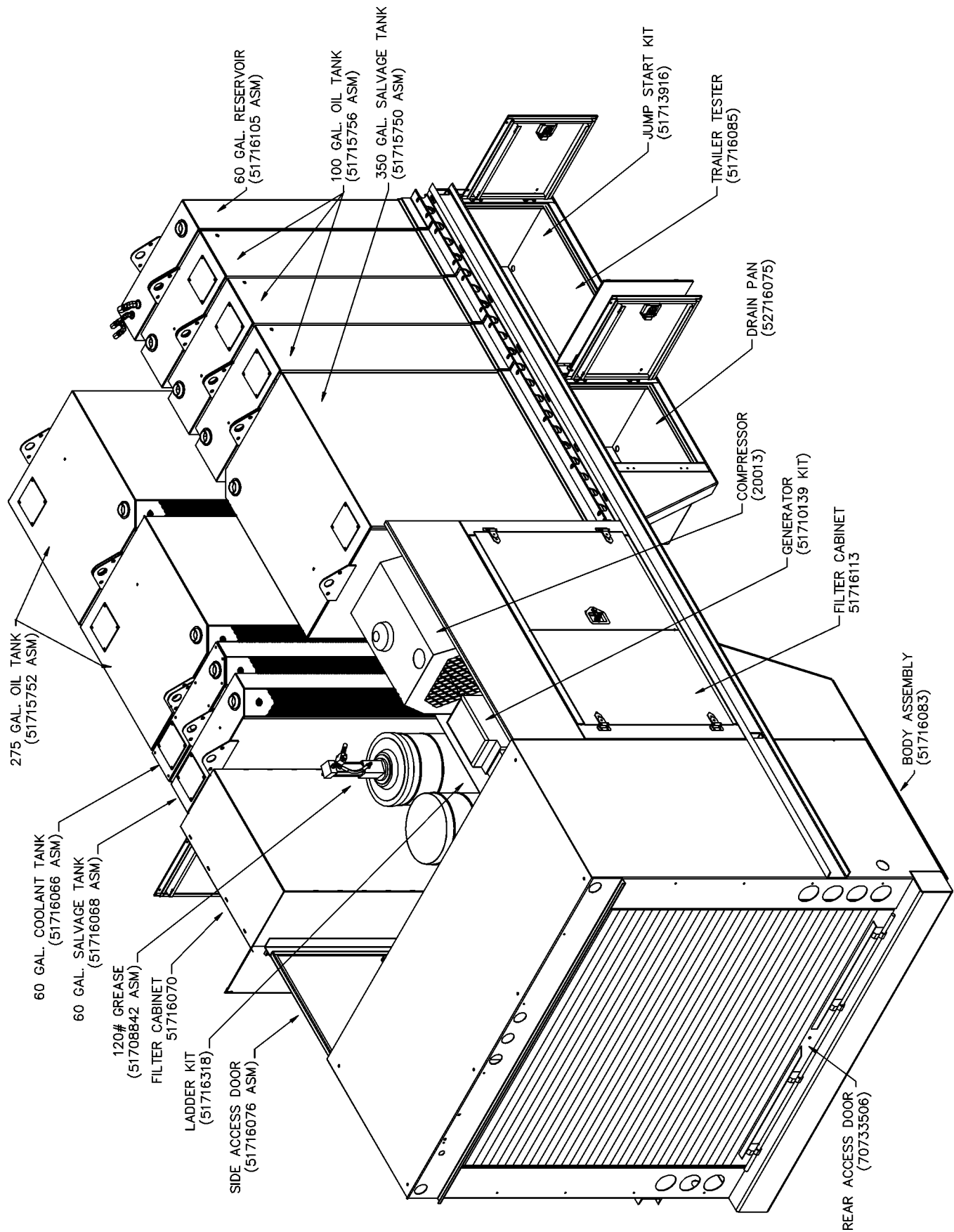
The main system shall be protected by a filtering system on both the suction and return side of the pump and reservoir. The suction strainer shall have a 100-mesh element and a vacuum gauge. The return filter shall have a 25-micron element. A hydraulic system reservoir shall be required which shall feature a lockable 2" vented filler cap and sufficient openings for the pump and filter connections.

A master switch located in the cab shall be provided to activate the main system. A weather resistant control box shall be provided to control the hydraulics to each individual pump by means of an electrical switch with an indicator light incorporated into the switch.

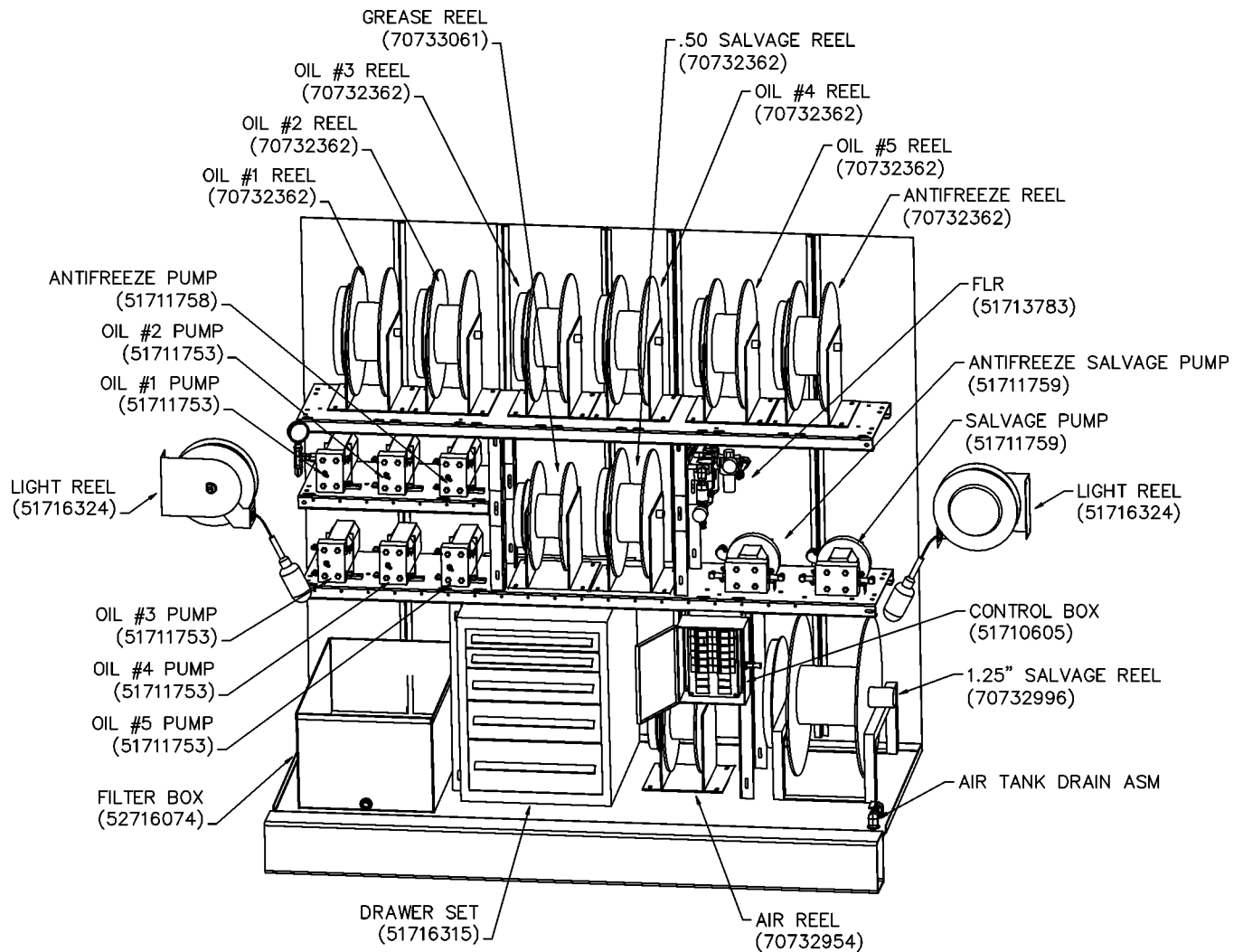
9.0 MISCELLANEOUS ITEMS

- 9.1 A retractable ladder or recessed skirting steps will be supplied to access the upper deck of the lube body. Grab handles are mounted on either side of the access area for safety.
- 9.2 An optional set of 5-3" drawers with dividers can be located in the reel compartment. They will glide on ball bearing slides with a 250 pound capacity. They shall be made of galvanized steel, with aluminum dividers.
- 9.3 Safety equipment shall be provided in accordance with Federal Motor Vehicle Safety requirements. Back up alarm, ICC safety kit and DOT lights and reflectors shall be provided.

GENERAL BODY LAYOUT



REAR COMPARTMENT LAYOUT



IOWA MOLD TOOLING CO., INC.

BOX 189, GARNER, IA 50438-0189

TEL: 641-923-3711

TECHNICAL SUPPORT FAX: 641-923-2424

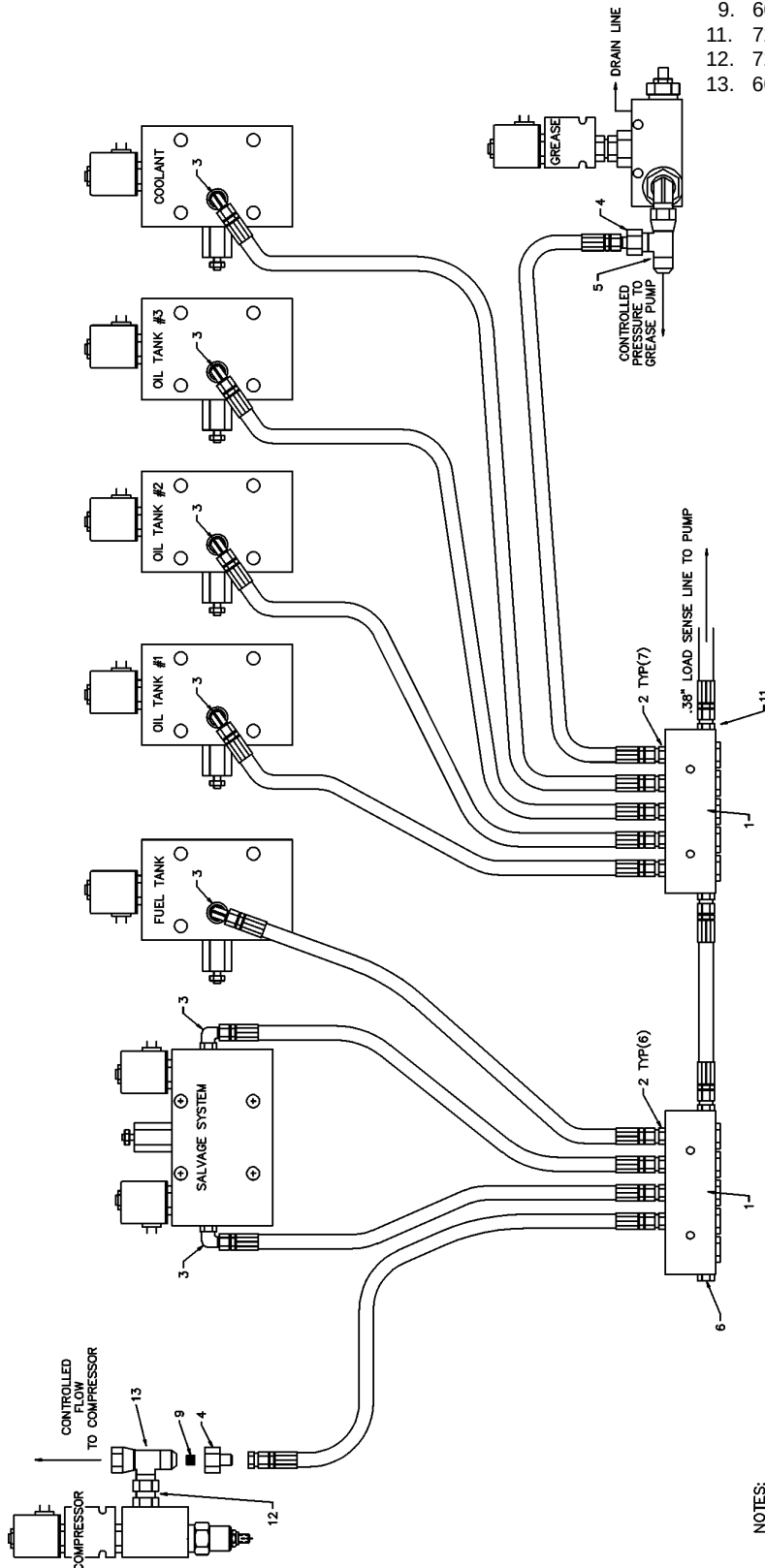
INSTALLATION KIT-LOAD SENSE HYD (51715618)3
HYD INSTALLATION-COMPRESSOR (51715709)4
HYD SCHEMATIC-LUBE SYSTEM (99903232).....5
HYD KIT-RESERVOIR (51716105-1)6
HYD KIT-RESERVOIR (51716105-2)7
DECAL KIT-1 OF 38
DECAL KIT-2 OF 39
DECAL KIT-3 OF 310

NOTES

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INSTALLATION KIT-LOAD SENSE HYD (51715618)

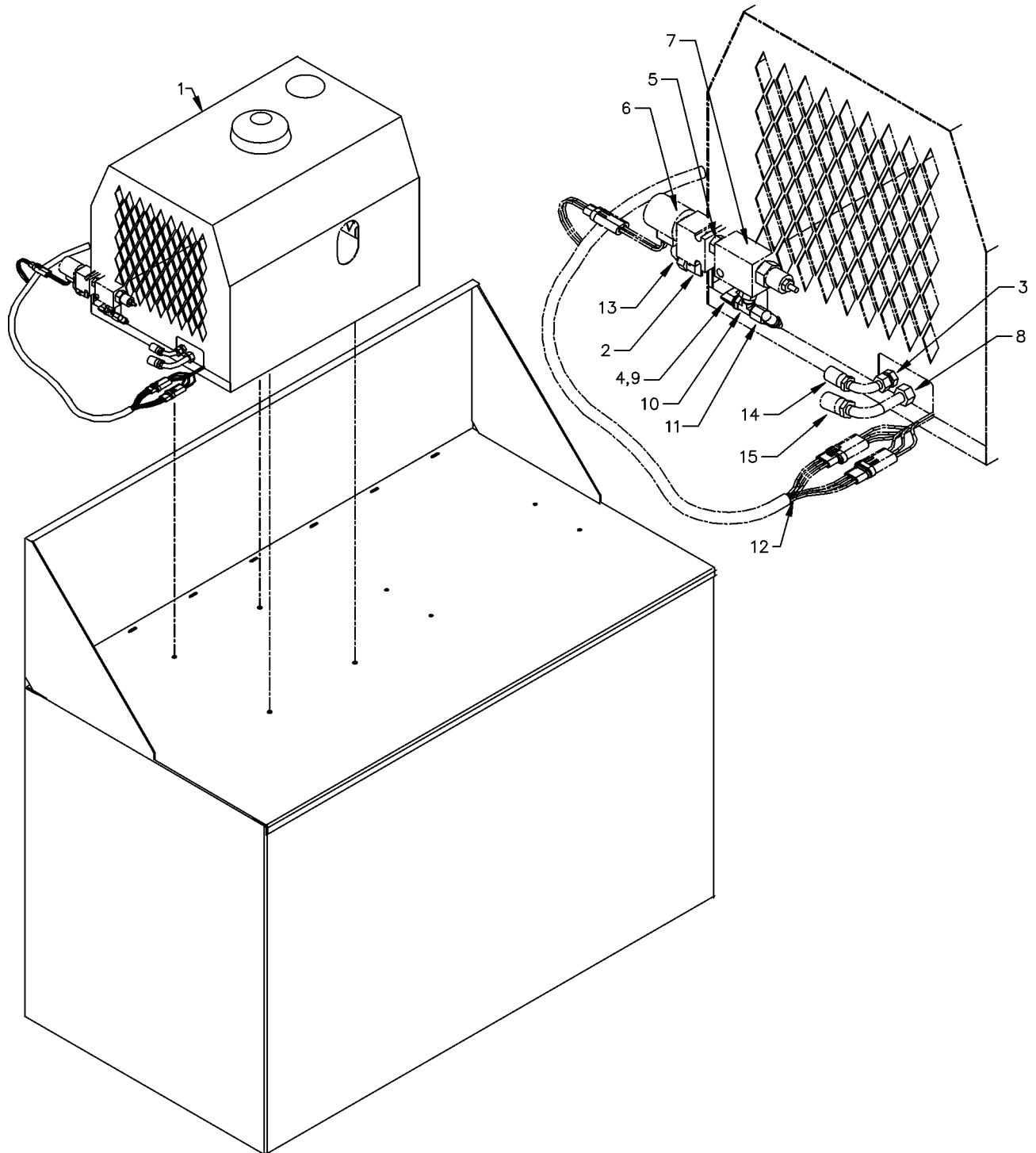
1.	73054916	MANIFOLD-CHK VALVE	2
2.	72532351	ADAPTER #4MSTR #4MJIC	12
3.	72053758	ELBOW #4MSTR #4MJIC 90°	7
4.	72532665	ADAPTER #4MJIC #8FJIC	2
5.	72532657	TEE #8JIC SWVLNUTRUN	1
6.	72532522	PLUG 7/17STR HH	1
9.	60120299	ORIFICE	1
11.	72532775	ADAPTER #4MSTR #6MJIC	1
12.	72553304	ADAPTER #8MSTR #8FJIC	1
13.	60122448	TEE-MOD 3/4 SWVLNUTRUN	1



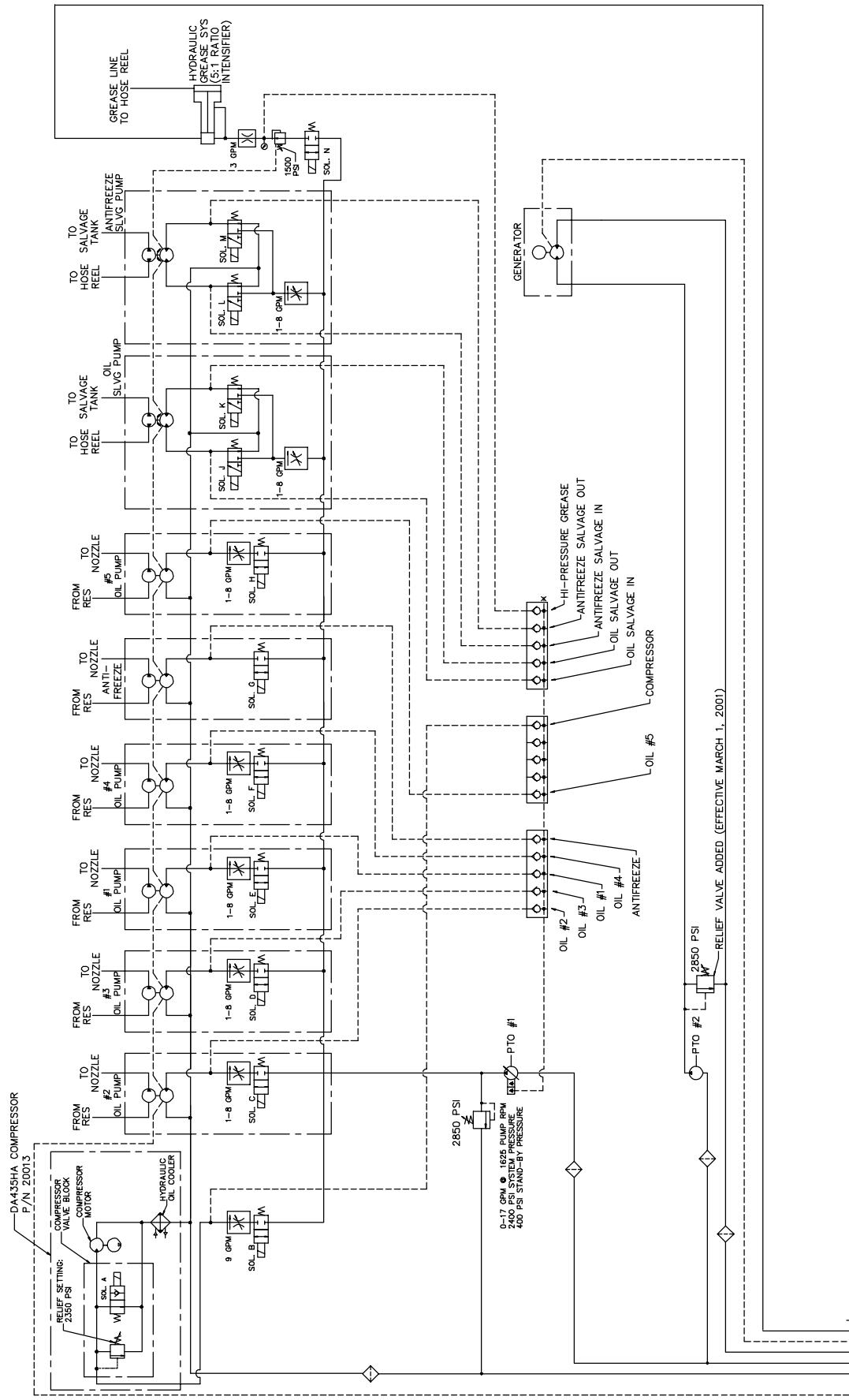
NOTES:
 1.) SYSTEM SHOWN IS A TYPICAL LUBE TRUCK SETUP(10 SYSTEMS).
 2.) ORIENTATION OF MANIFOLDS MAY VARY PER TRUCK.
 3.) HOSE ASSEMBLIES ARE PART OF HOSE KIT.
 4.) THIS KIT IS USED IN CONJUNCTION WITH THE HYDRAULIC PUMP ASSEMBLIES AND IS STRUCTURED TO THE HYDRAULIC KIT.

HYD INSTALLATION-COMPRESSOR (51715709)

1.	20013	COMPRESSOR	1REF	9.	72553304	ADAPTER #8MSTR #8FJIC	1REF
2.	72053763	ELBOW #8MSTR #8MJIC 90°	1	10.	60122448	TEE-MODIFIED	1REF
3.	72053676	ADAPTER 3/4MPT #12MJIC	1	11.	72532665	ADAPTER #4MJIC #8FJIC	1REF
4.	72533595	ELBOW #12MSTR #8MJIC 90°	1	12.	77044883	HARNESS	1REF
5.	72532728	UNION #8MSTR #8MSTR	1	13.	72533387	HOSE FITTING-TYPE J #8 .50	1REF
6.	73054576	VALVE-SOLENOID	1	14.	72533378	HOSE FITTING-TYPE J #12 .75	1REF
7.	73054714	VALVE-FLOW REGULATOR	1	15.	72533324	HOSE FITTING-TYPE Z #12 .75	1REF
8.	72053675	ADAPTER 1/2MPT #12MJIC	1	16.	72533373	UNION-BULKHD .75MJIC(Not Shown)	1
				17.	72533371	UNION-BULKHD 1.06MJIC(Not Shown)	1



HYD SCHEMATIC-LUBE SYSTEM (99903232)

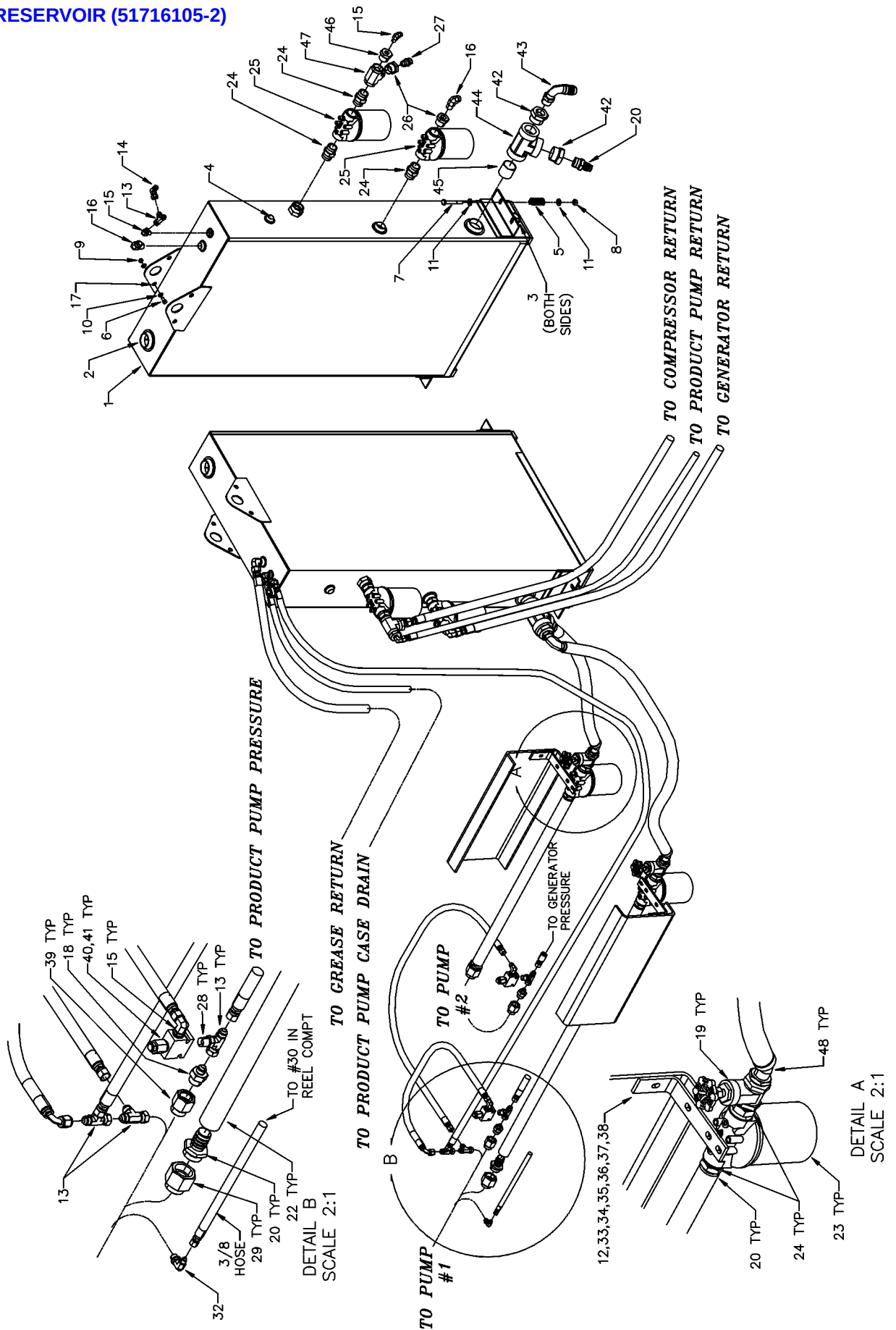


HYD KIT-RESERVOIR (51716105-1)

1.	52716104	RESERVOIR-WELDMENT 60 GAL.	1
2.	70732184	FILL NECK ASM W/VENTED CAP	1
3.	72053406	PLUG-1" PIPE	2
4.	72532681	SIGHT GAUGE	1
5.	70144807	SPRING	4
6.	72060048	CAP SCR 3/8-16 X 1-1/2 HHGR5	2
7.	72060097	CAP SCR 1/2-13X3 HHGR5	4
8.	72062080	NUT 1/2-13 NYLOC	4
9.	72062103	NUT 3/8-16 NYLOC	2
10.	72063003	WASHER 3/8 WRT	4
11.	72063005	WASHER 1/2 WRT	8
12.	60103870	BRACKET	2
13.	72532657	TEE #8JIC NUT RUN	5
14.	72532658	ELBOW #8MJIC #8FJIC SWIVEL	1
15.	72531421	ELBOW 1/2MPT #8MJIC	4
16.	72531427	ELBOW 3/4MPT #12MJIC 90°	2
17.	76393038	GROMMET .44	4
18.	72532360	ADAPTER #12MSTR #8MJIC	2
19.	73054130	GATE VALVE 1.25	2
20.	72531550	NIPPLE-BARB STL 1.25MPT	5
21.	72066516	HOSE CLAMP 1.25 (Not Shown)	8
22.	89393401	HOSE 1.25"	20Ft
23.	73052012	FILTER-SUCTION	2
24.	72053211	PIPE NIPPLE 1.25 X CLOSE	7
25.	73052091	FILTER-RETURN	2
26.	72053180	REDUCER 1.25-.75NPT	2
27.	72053676	ADAPTER-3/4MPT #12MJIC	1
28.	72533304	ADAPTER #8MSTR#8FSTR	2
29.	72533114	ADAPTER #24MSTR #20FSTR	2
30.	72532835	UNION-JIC BULKHD #6 (Not Shown)	1
31.	51712877	INSTALL KIT-LOAD SENSE (Not Shown)	1
32.	72533594	ELBOW #4MSTR #6MJIC 90°	1
33.	72060025	CAP SCR 5/16-18X1 HHGR5	4
34.	72063002	WASHER 5/16 WRT	4
35.	72063050	WASHER 5/16 LOCK	4
36.	72060048	CAP SCR 3/8-16X1-1/2 HHGR5	2
37.	72063003	WASHER 3/8 WRT	4
38.	72062103	NUT 3/8-16 NYLOC	2
39.	72532948	ADAPTER #16MSTR #12FSTR	2
40.	73054583	VALVE-RELIEF	2
41.	70143516	VALVE BLOCK	2
42.	72053579	REDUCER 2-1.25NPT	2
43.	72532346	BARB NIPPLE 90° 1.25-1.25NPT	1
44.	72053608	TEE 2NPT	1
45.	72053260	PIPE NIPPLE 2NPT X CLOSE	1
46.	72053574	REDUCER 1.25-.50NPT	1
47.	72053606	TEE-1.25NPT	1
48.	72531196	NIPPLE-BARB 45° 1.25-1.25NPT	2

SEE FOLLOWING PAGE FOR DRAWING

HYD KIT-RESERVOIR (51716105-2)



DECAL KIT-1 OF 3

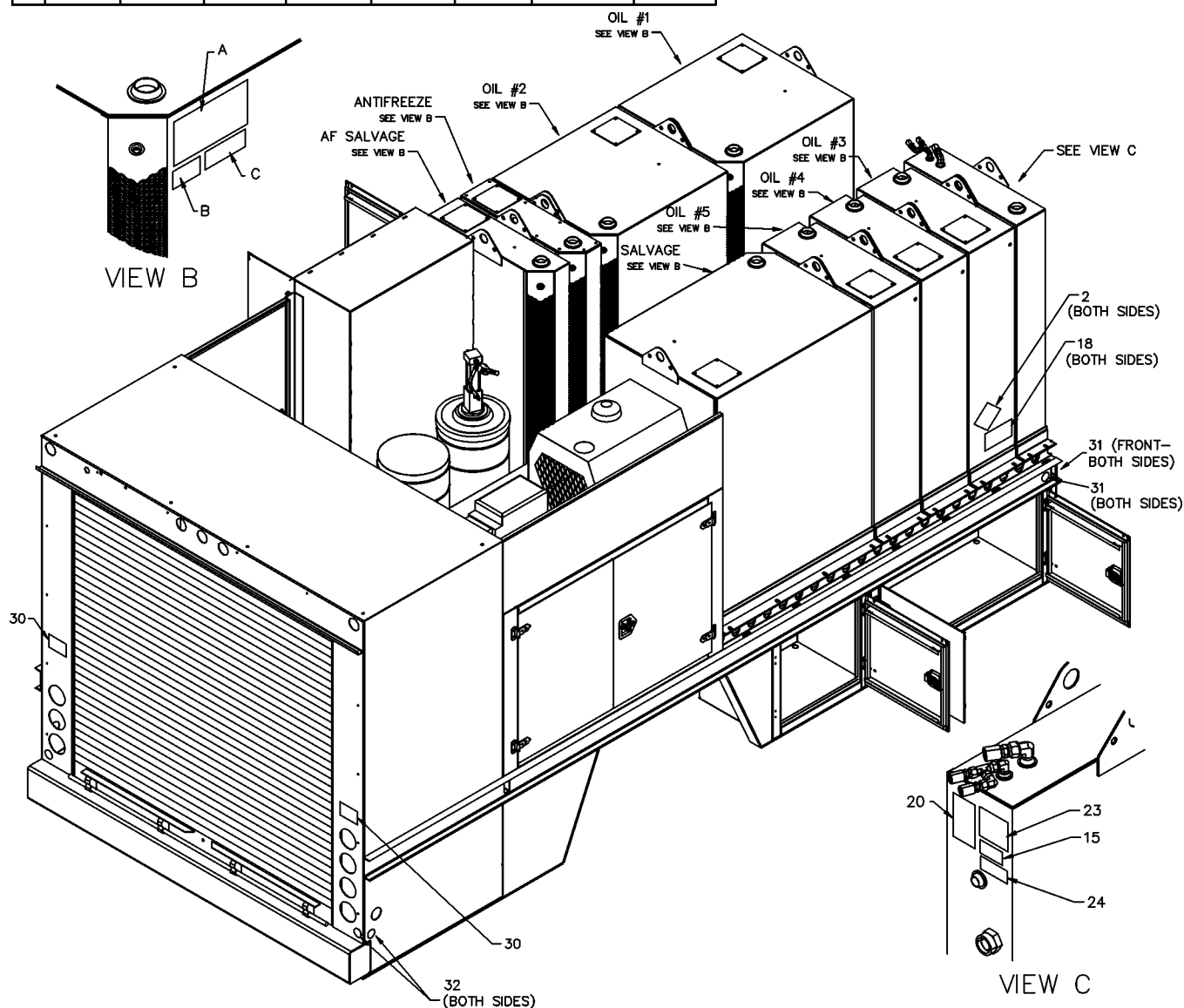
1.	70392887	IMT DIAMOND SMALL	1
2.	70029251	IMT DIAMOND LARGE	2
3.	70391601	AIR TANK DRAIN	1
4.	70392213	CAUTION-DON'T WASH/WAX	2
5.	70392965	THINK SAFETY (SMALL)	2
6.	70392982	SERVICE & REPAIR	2
7.	70392986	LUBE OIL (1) ¾" X 2"	3
8.	70392987	LUBE OIL (2) ¾" X 2"	3
9.	70392988	LUBE OIL (3) ¾" X 2"	3
10.	70392989	LUBE OIL (4) ¾" X 2"	3
11.	70392990	LUBE OIL (5) ¾" X 2"	3
12.	70392993	LUBE SALVAGE ¾" X 2"	6
13.	70392994	LUBE AIR ¾" X 2"	1
14.	70392995	LUBE HP GREASE ¾" X 2"	1
15.	70392996	LUBE HYD RSRVR ¾" X 2"	2
16.	70393050	LUBE ANTI-FREEZE ¾" X 2"	6
17.	70393249	PATENT-MOBILE LUBE VEH	1

CONTINUED ON FOLLOWING PAGE

18.	70393669	SITESTAR (LARGE)	2
19.	70393670	SITESTAR (SMALL)	1
20.	70394189	MOBIL-OIL-RESERVOIR	1
21.	71393886	DANGER-EXPLODING TANK	1
22.	70394624	CAUTION-Y-STRAINER	1
23.	70395479	LUBE TANK SERIAL NO.	9 REF
24.	70395787	TANK CAPACITY 60 GAL	3 REF
25.	70395493	TANK CAPACITY 100 GAL	3 REF
26.	70395495	TANK CAPACITY 275 GAL	2 REF
27.	70395496	TANK CAPACITY 350 GAL	1 REF
28.	70394092	CAUTION-BRAKE/CMPSR	1
29.	71039165	RPM 1200-1400	1
30.	70395936	CAUTION-ROLL UP DOOR	2
31.	70039058	REFLECTOR-AMBER ROUND	4 REF
32.	70039057	REFLECTOR-RED ROUND	4 REF

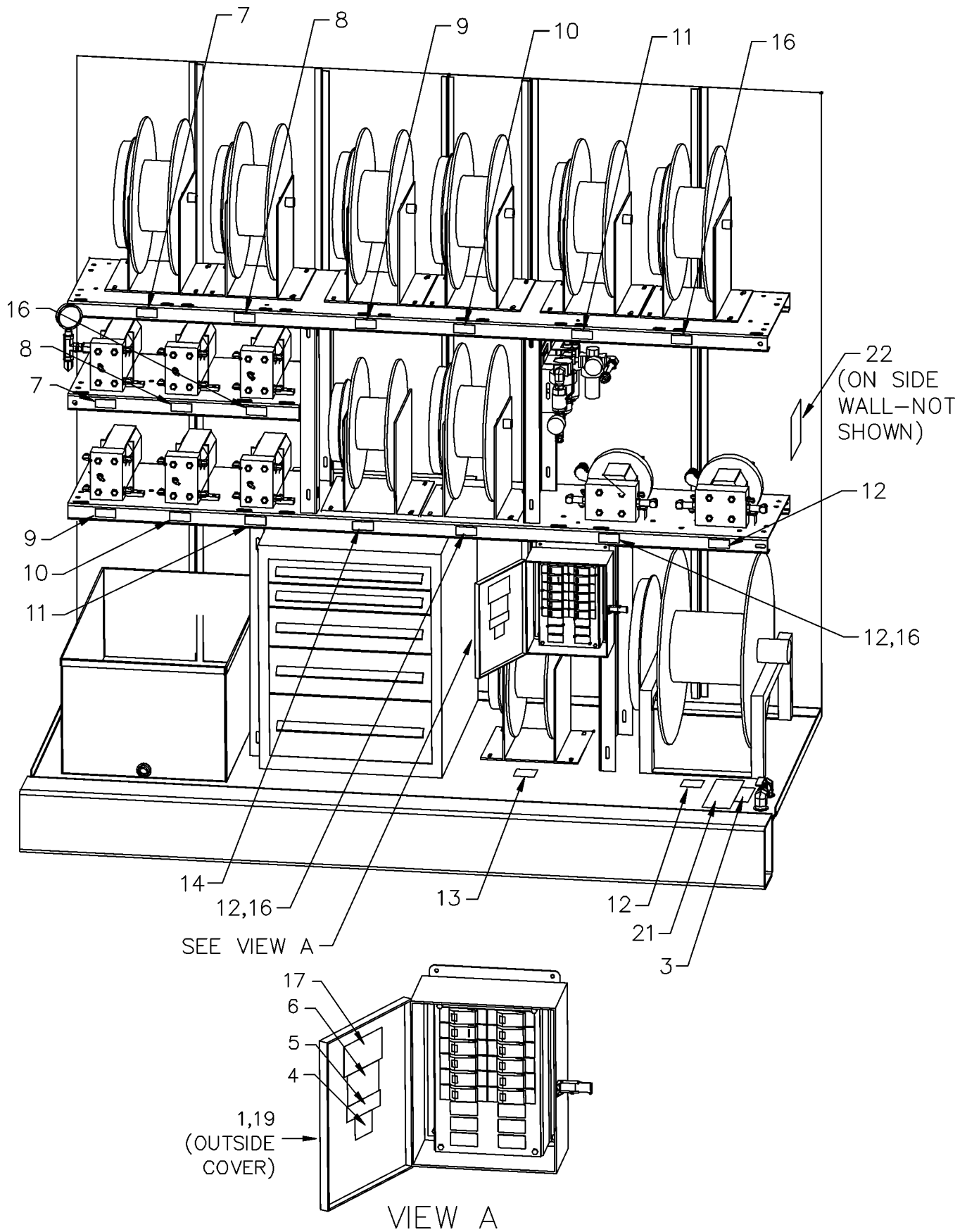
PLACEMENT PER VIEW B

	OIL#1	OIL#2	OIL#3	OIL#4	OIL#5	AF	AF SALV	SALV
A	23	23	23	23	23	23	23	23
B	7	8	9	10	11	16	12,16	12
C	26	26	25	25	25	24	24	27

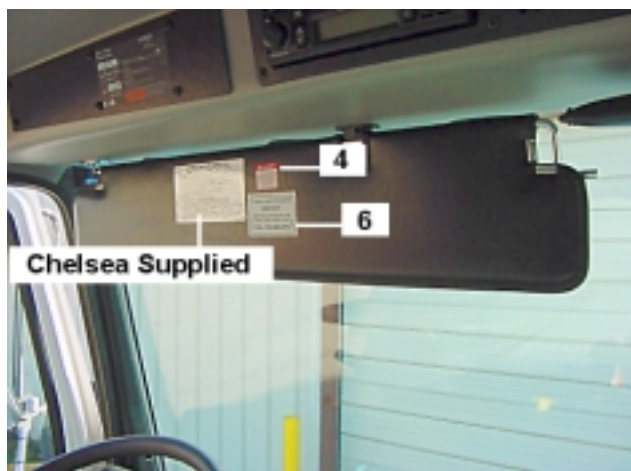


DECAL KIT-2 OF 3

CONTINUED ON FOLLOWING PAGE



DECAL KIT-3 OF 3



ELECTRICAL CONTROL BOX ASM (51717257-1)	3
ELECTRICAL CONTROL BOX -PANEL LAYOUT (51717257-2)	4
ELECTRICAL SCHEMATIC (51717257-3)	5
HARNESS-TRUCK LIGHT/COMPT LIGHT 1 OF 2 (EFF: 12-2000)	6
HARNESS-TRUCK LIGHT/COMPT LIGHT 2 OF 2 (EFF: 12-2000)	7
HARNESS-COMPT LIGHT (PRE: 12-2000)	8
HARNESS-COMPRESSOR/GREASE	9
HARNESS-PUMP	10
HARNESS-UNDERBODY TOOLBOX & FILTER COMPT	11
JUMP START KIT (51713916).....	12
GENERATOR KIT-6000 WATT (51710139)	13
FLOODLIGHT KIT-110V (51708339-QTY 3)	13
SWITCH KIT-110V (51711996).....	13
LIGHT REEL-110V (51716324)	13
LIGHT-COMPARTMENT (51713376)	14
TRAILER TESTER ASM (51716085).....	14
OUTLET-110V (51711674)	14

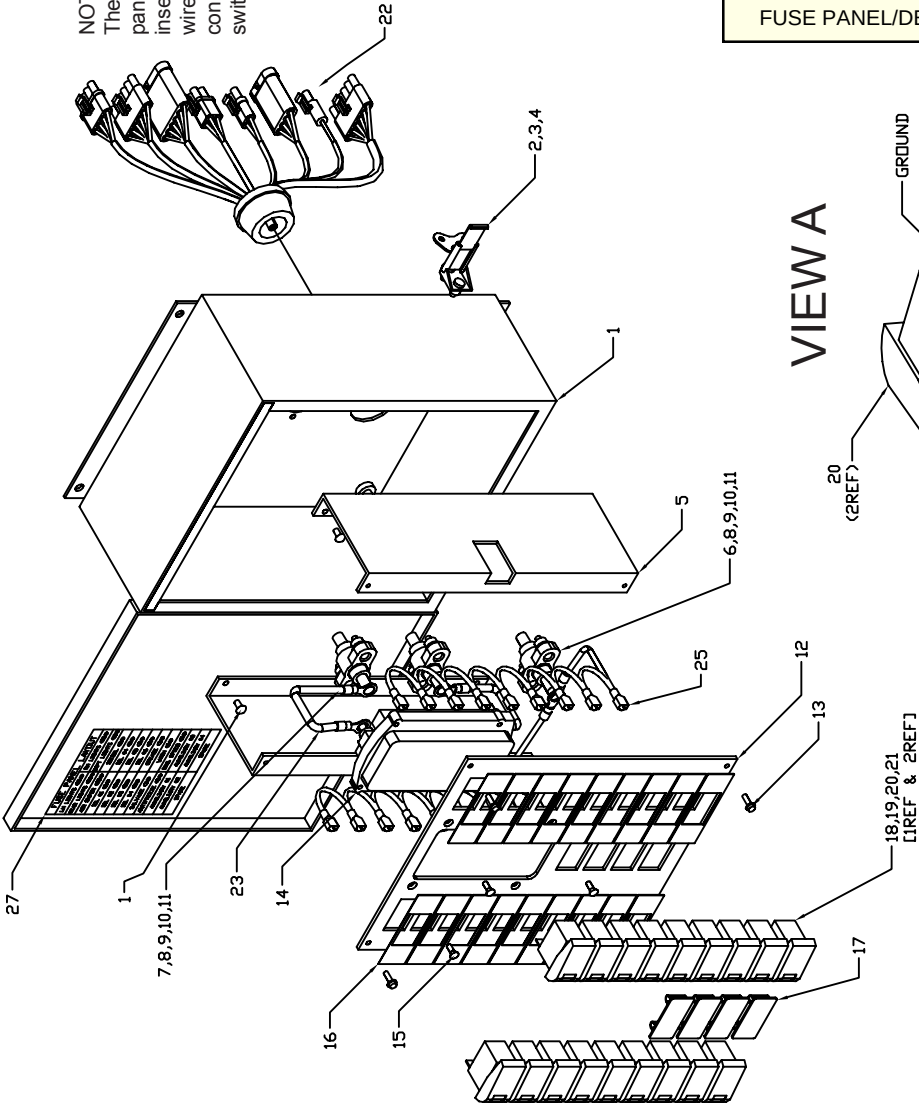
NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

ELECTRICAL CONTROL BOX ASM (51717257-1)

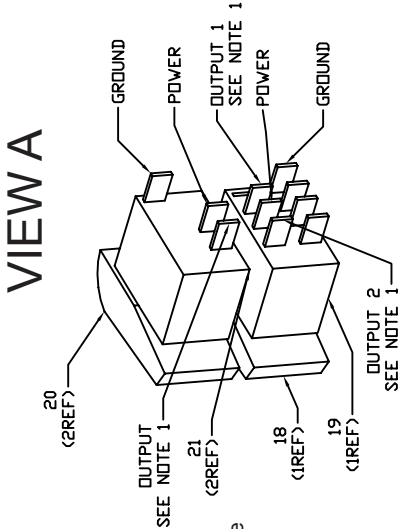
1.	77041330	JIC BOX-12H 10W 5D CONT. HINGE	1
2.	72661304	LATCH	1
3.	72601283	SCR-MACH #10-24 X 1/2 PN SL	2
4.	72062123	NUT-SS #10-24	2
5.	60250861	MOUNTING BRACKET	2
6.	70145959	STUD	1
7.	70145888	STUD	2

NOTE:
The fused power wire from the Bussman fuse panel to the switch is not shown. To connect, insert the Packard end of the switch power wire into the appropriate fuse location, then connect the push-on terminal to the appropriate switch.



8.	72060636	SCR-MACH #10-24X3/4 RDH ZINC	6
9.	72062106	NUT #10-24 HEX	6
10.	72063123	WASHER #10 FLAT	6
11.	72062003	NUT 3/8-16 HEX	3
12.	60250862	PANEL-LUBE CONTROL BOX	1
13.	72601608	SCR-SELF TAP # 8 X 3/4 HH	4
14.	77441040	BUSSMAN 15712-12	1
15.	72601366	SCR-MACH #8-32 X 1/2 FH	4
16.	70395110	DECAL-CONT PANEL	1
17.	77041571	SWITCH-ROCKER PLUG	10
18.	77041551	SWITCH-ROCKER 2RED	1REF
19.	77041550	SWITCH-ROCKER BODY ON-OFF-ON	1REF
20.	77041499	SWITCH-ROCKER RED ACTUATOR	2REF
21.	77041500	SWITCH-ROCKER BODY	2REF
22.	77441034	HARNESS-LUBE CONTROL	1
23.	77441037	HARNESS-BUSSMAN PWR WIRE	2
24.	77441038	HARNESS-BUS. TO SWITCH (N/S)	22
25.	77441039	HARNESS-SWITCH GRND	2
26.	77040391	RELAY-12VDC (N/S)	2
27.	70396126	FUSE LAYOUT DECAL	1
28.	77041431	FUSE-ATC 30 BUSS. (N/S)	1
29.	77041433	FUSE-ATC 15 BUSSMAN (N/S)	5
30.	77044972	FUSE-ATC 3 AMP (N/S)	5
31.	77044728	FUSE-ATC 2 AMP	11

FUSE PANEL/DECAL LAYOUT ON NEXT PAGE.



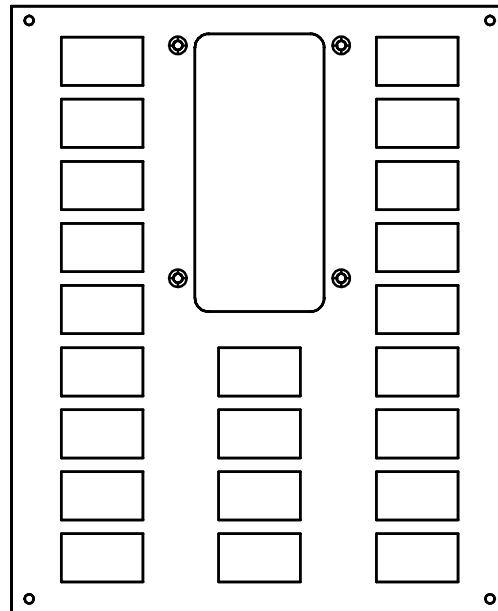
NOTES:
1. On main harness, various labeled wires w/female spade terminal connectors to be attached to output spade (See View A) on appropriate switch. All wires with ring terminal connectors labeled "ground" to be attached to black stud terminal on box. Wires not labeled "ground" to be attached to the red stud terminal. Appearance of harness may differ from drawing.

ELECTRICAL CONTROL BOX -PANEL LAYOUT (51717257-2)

PARTS LIST ON PREVIOUS PAGE.

FUSE PANEL LAYOUT	
DIESEL - 2A	OIL #1 - 2A
GREASE - 3A	OIL #2 - 2A
ANTI-FREEZE - 3A	OIL #3 - 2A
SALVAGE - 3A	OIL #4 - 2A
SALVAGE - 3A	OIL #5 - 2A
WASH - 3A	OIL #6 - 2A
GENERATOR - 2A	OIL #7 - 2A
COMPRESSOR - 30A	OIL #8 - 2A
SPEED CONTROL - 2A	COMPT LIGHTS - 15A
RH LIGHTS - 15A	LH LIGHTS - 15A
REAR LIGHTS - 15A	FRONT LIGHTS - 15A
SPARE	SPARE

SWITCH LAYOUT	
DIESEL	OIL #1
GREASE	OIL #2
ANTI-FREEZE	OIL #3
SALVAGE	OIL #4
SALVAGE	OIL #5
WASH	OIL #6
GENERATOR	OIL #7
COMPRESSOR	OIL #8
SPEED CONTROL	COMPT LIGHTS
RH LIGHTS	
LH LIGHTS	
REAR LIGHTS	
FRONT LIGHTS	

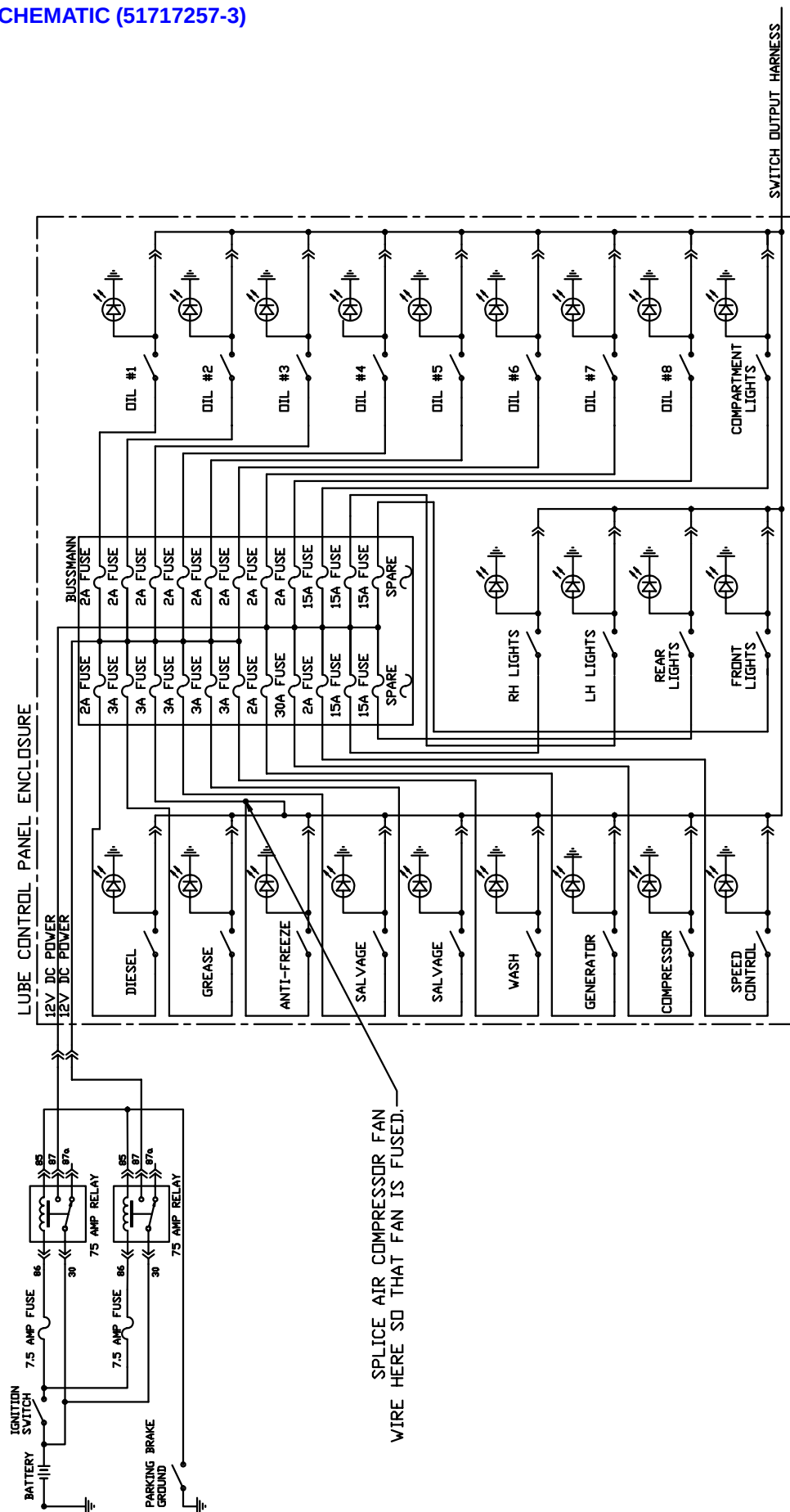


SWITCH PANEL

NOTES:

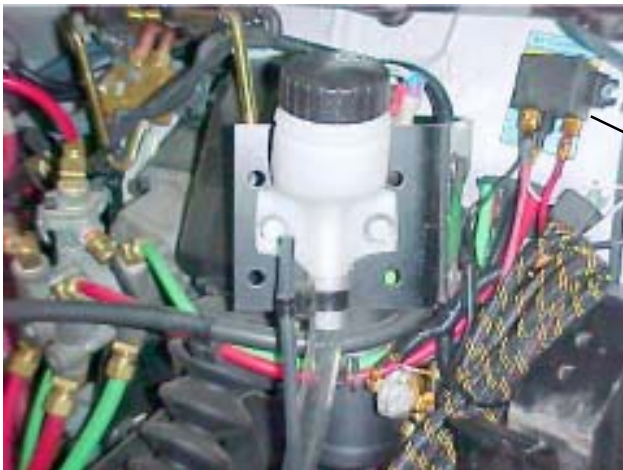
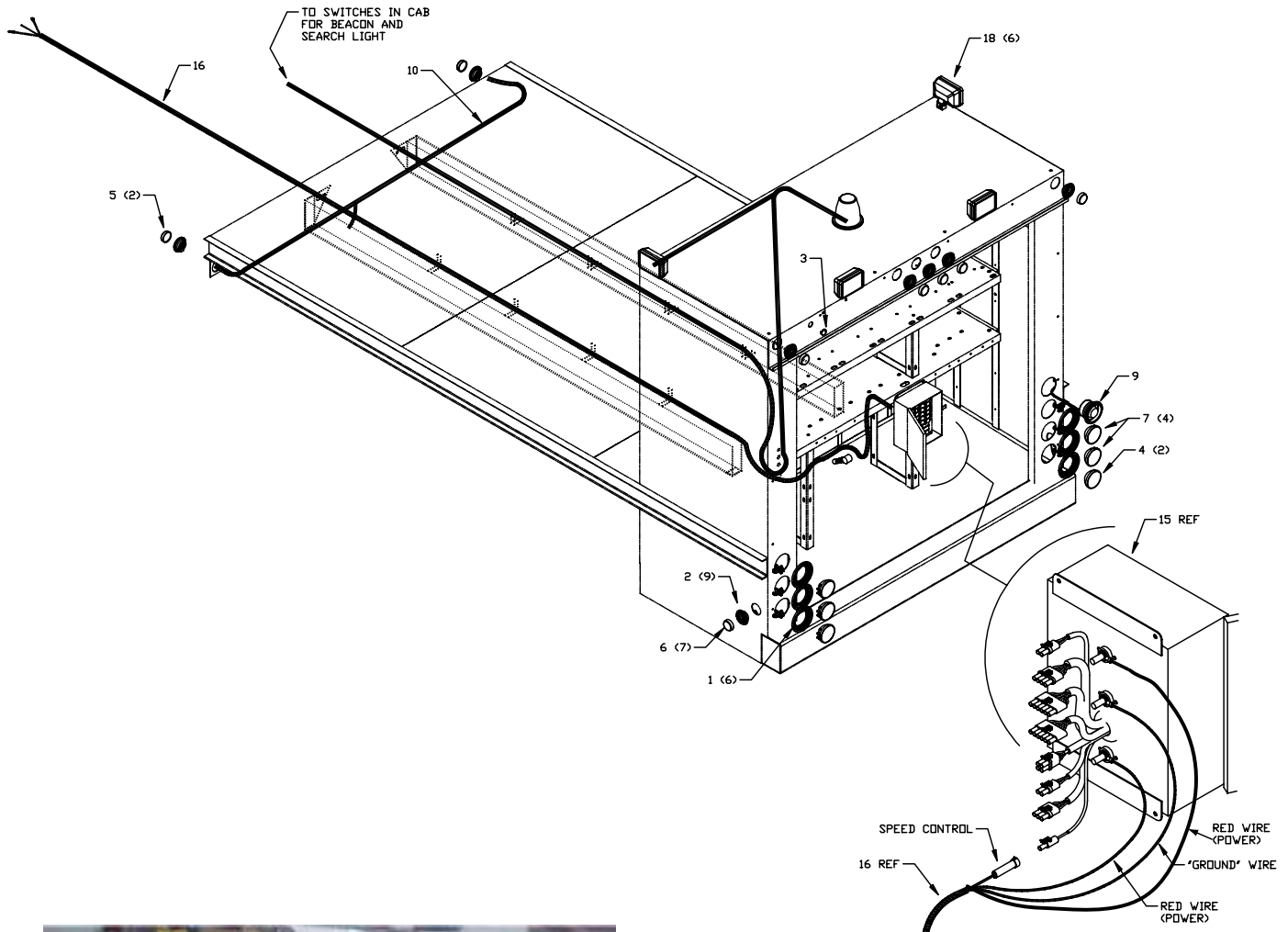
1. Decal placement follows the switch layout for most applications.
2. If a system does not follow the standard layout, substitutions can be made. ** The top 12 circuits cannot exceed 75 A, and the bottom 10 circuits cannot exceed 75 A. Substitute so load maximums are not exceeded.
3. If a system is not used (i.e. Pump #6), do not place the decal in that location. Use a blank decal in unused locations.

ELECTRICAL SCHEMATIC (51717257-3)



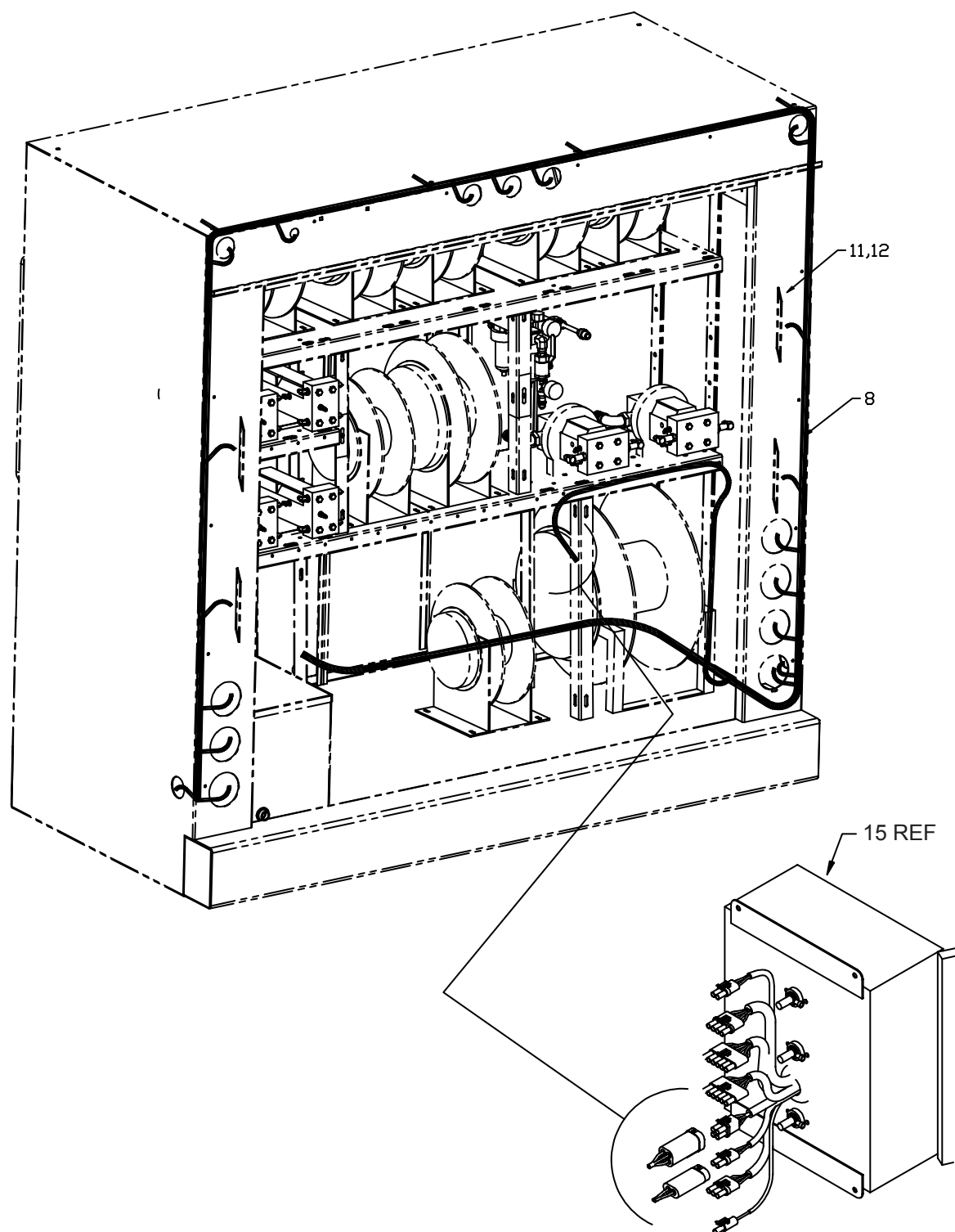
HARNESS-TRUCK LIGHT/COMPT LIGHT 1 OF 2 (EFF: 12-2000)

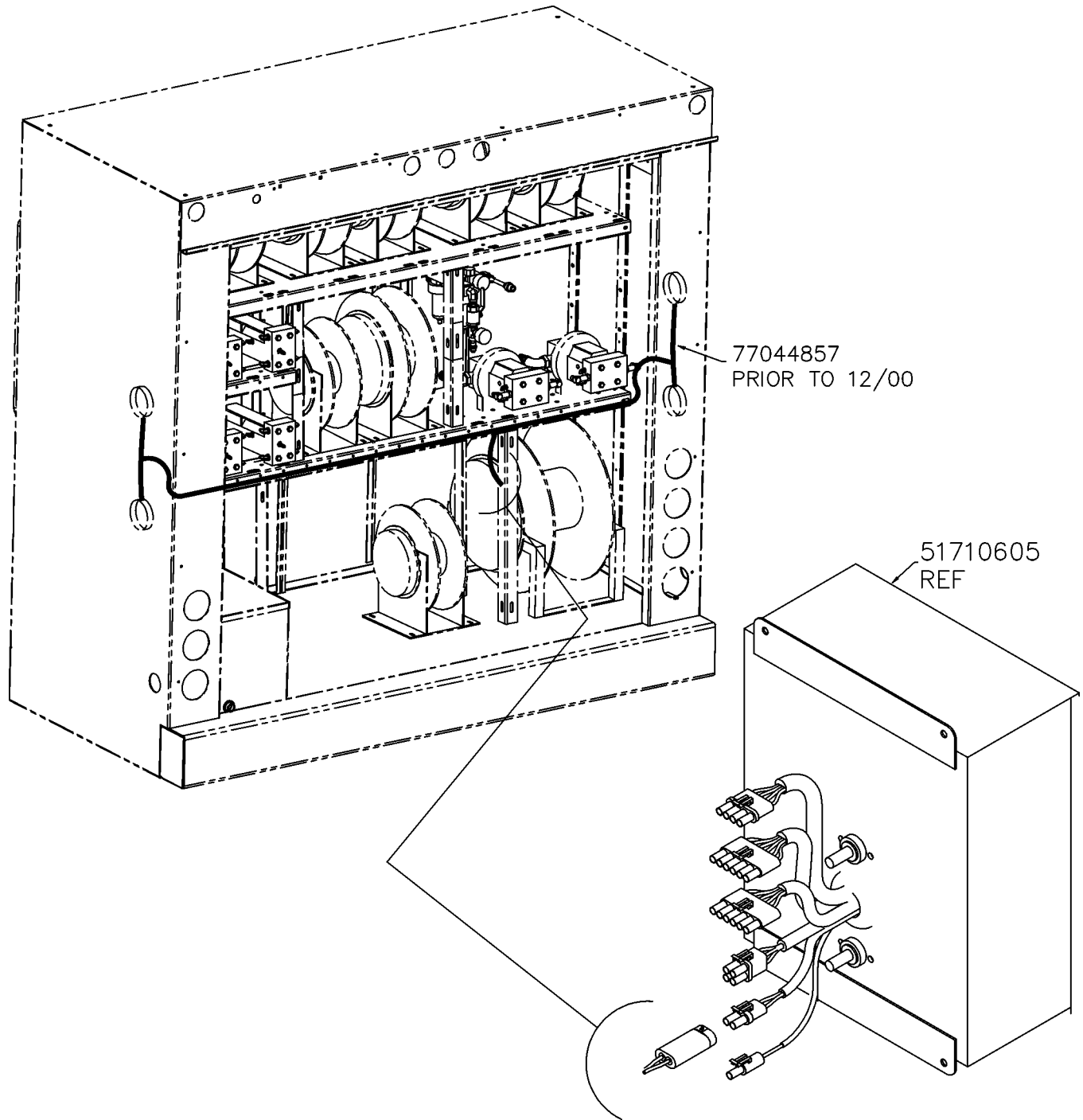
1. 76392275	GROMMET	6	10. 77044807	HARNESS-FRONT MARKER	1
2. 76392610	GROMMET	9	11. 77040384	COMPARTMENT LIGHT	4
3. 77040006	LICENSE PLATE LIGHT	1	12. 76394572	COMPARTMENT LIGHT GROMMET	4
4. 77040180	BACKUP LIGHT	2	13. 77040391	75 AMP RELAY	2
5. 77040181	AMBER MARKER LIGHT	2	14. 77044971	HARNESS-BEACON/SEARCH/FLD	1
6. 77040182	RED MARKER LIGHT	7	15. 51710605	CONTROL BOX	Ref
7. 77040188	STOP/TURN/TAIL LIGHT	4	16. 77441033	HARNESS-POWER/SPD CTRL	1
8. 77044771	HARNESS-REAR TRUCK LT	1	17. 77040193	12V FLOOD LIGHT	4
9. 77040365	BACK ALARM W/ GROMMET	1	18. 77040328	STROBE LIGHT	1

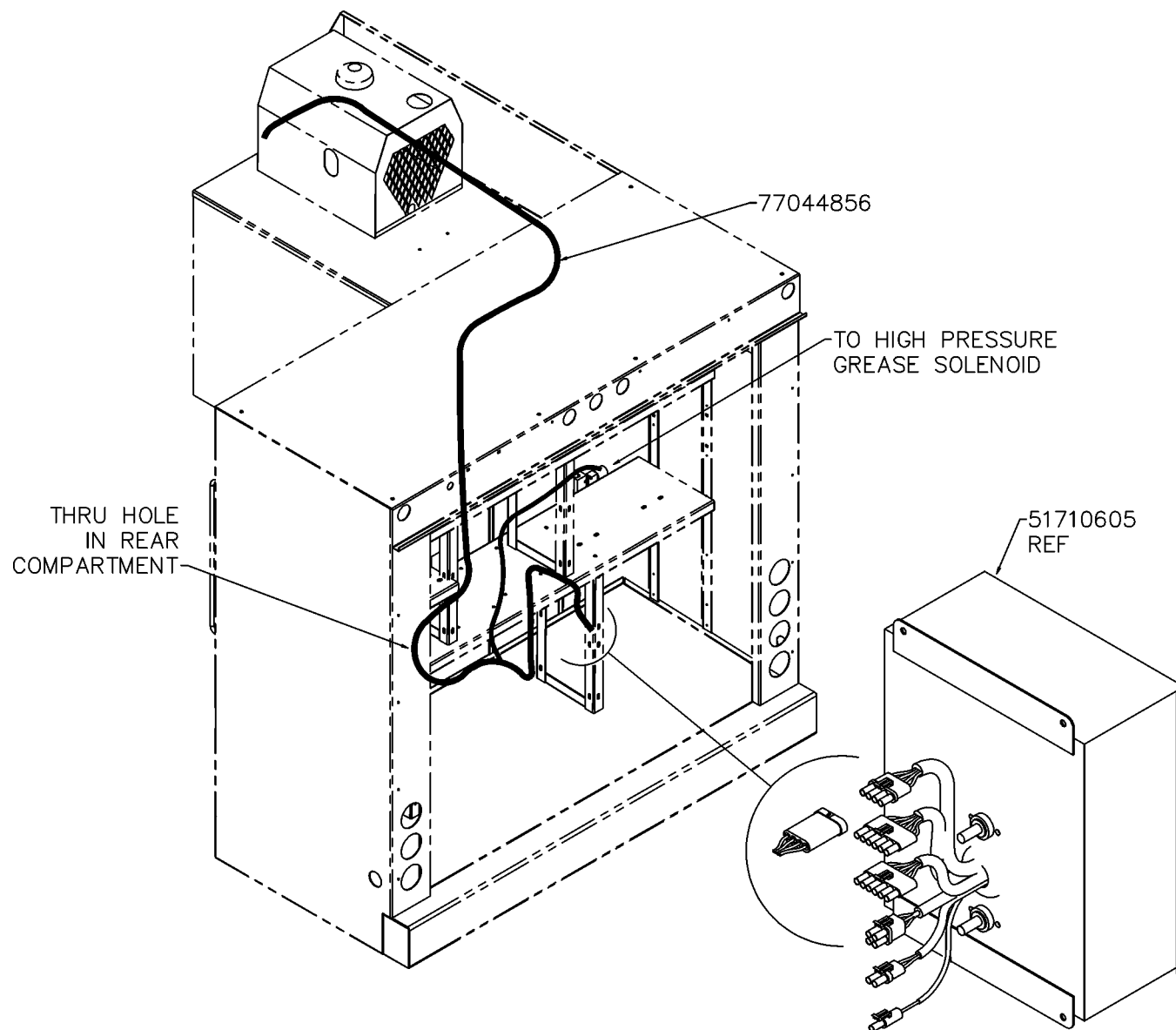
**DRIVER SIDE OF FIREWALL (UNDERHOOD)**

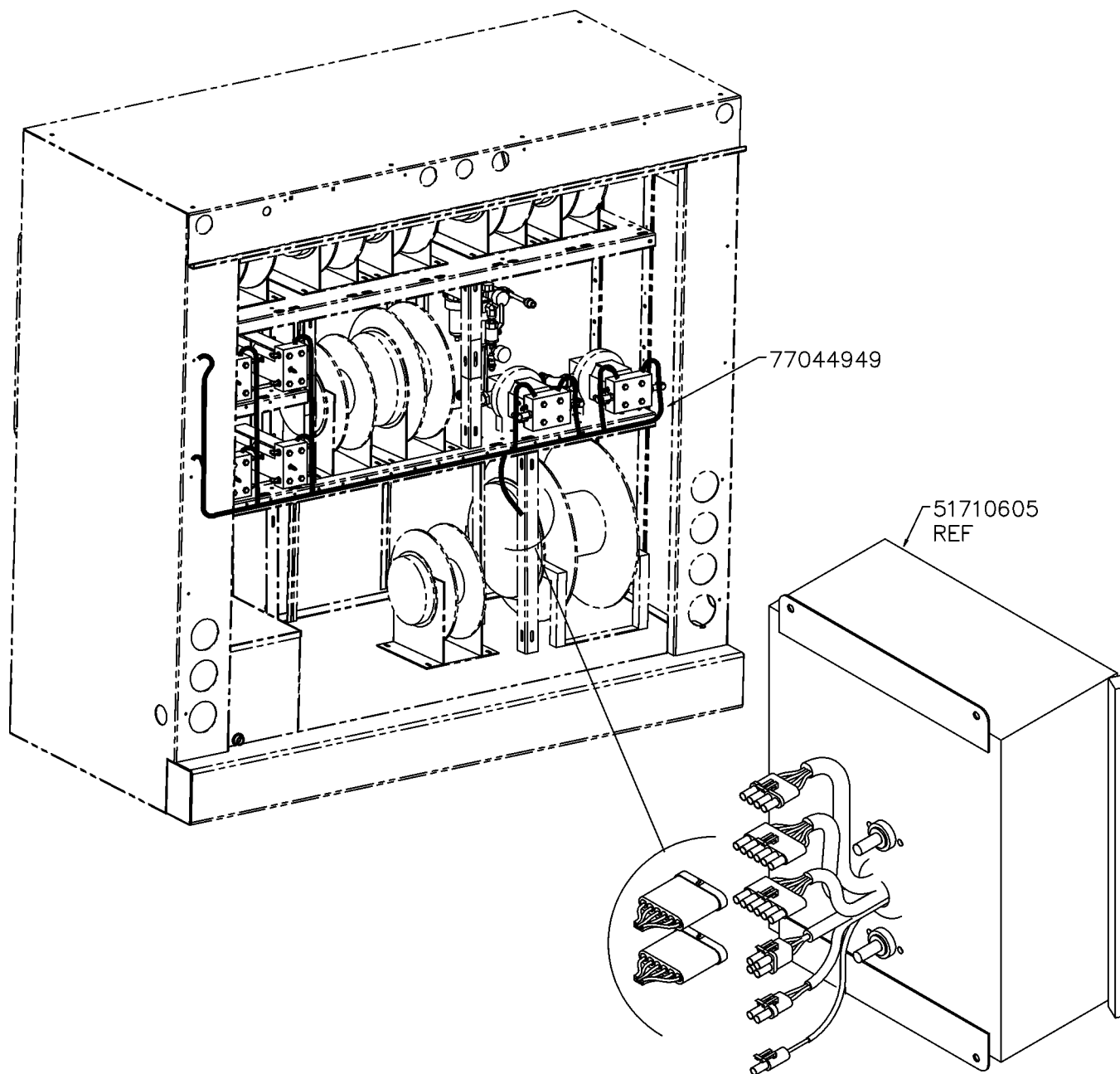
ITEM 13-RELAY
 86-FUSED IGN CIRCUIT
 85-GROUND (-)
 30-12V PWR (+) FROM BATTERY
 87-RED WIRE FROM 77441033 HARNESS

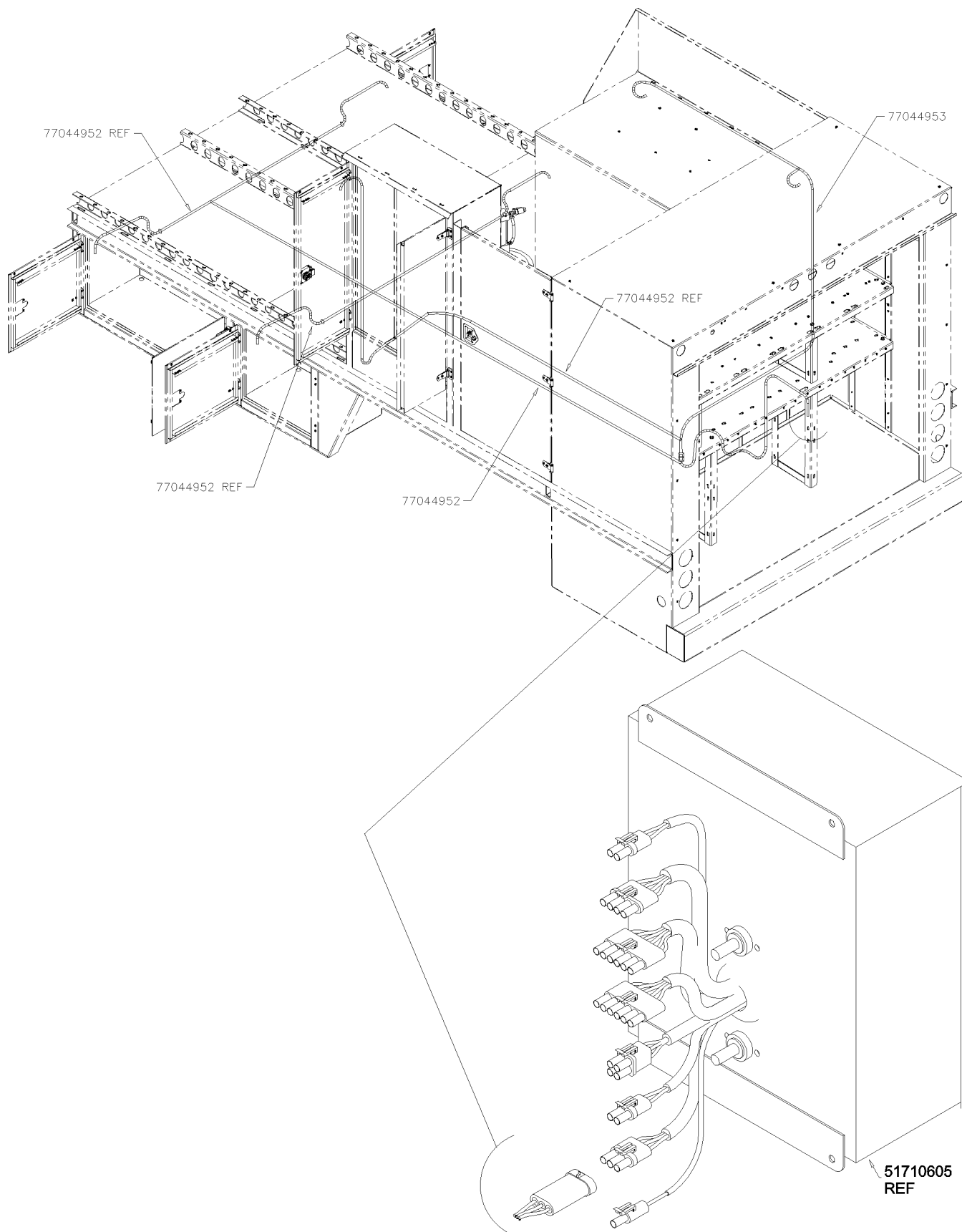
CONTINUED ON FOLLOWING PAGE

HARNESS-TRUCK LIGHT/COMPT LIGHT 2 OF 2 (EFF: 12-2000)

HARNESS-COMPT LIGHT (PRE: 12-2000)

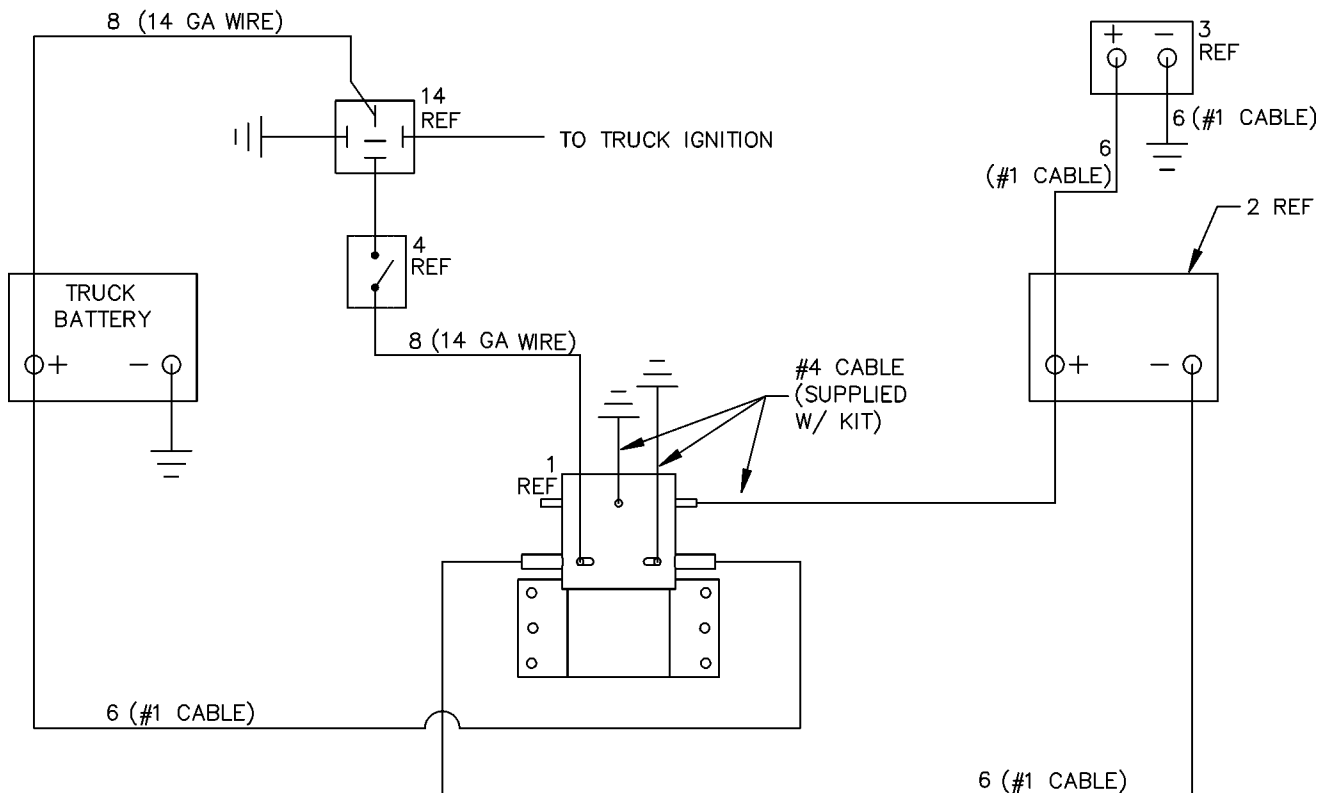
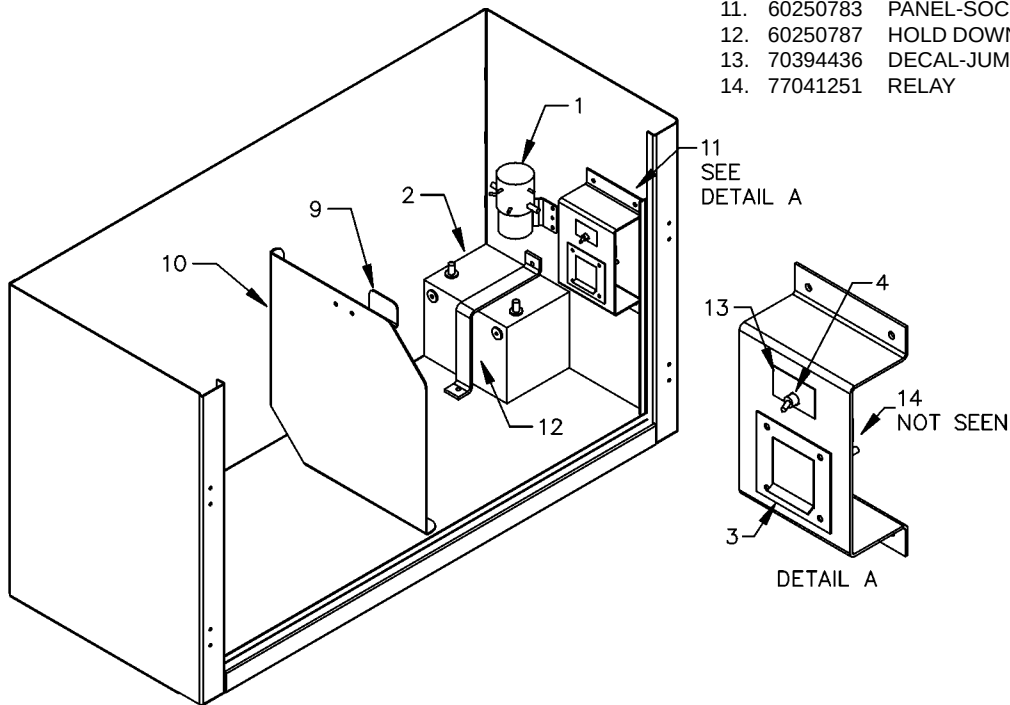
HARNESS-COMPRESSOR/GREASE

HARNESS-PUMP

HARNESS-UNDERBODY TOOLBOX & FILTER COMPT

JUMP START KIT (51713916)

1.	77041524	SWITCH-SERIES/PARALLEL	1
2.	77042044	BATTERY 12V	1
3.	77041522	SOCKET-PWR	1
4.	77041345	SWITCH-TOGGLE	1
5.	77041523	JUMPER CABLES	1
6.	89044276	CABLE #1	16FT
7.	77040137	TERMINAL-FSLPON	6
8.	89044232	WIRE 14GA	16FT
9.	60250781	HOOK-JUMPER CABLE	1REF
10.	60250782	PANEL-JUMPER CABLE	1REF
11.	60250783	PANEL-SOCKET/SWITCH	1REF
12.	60250787	HOLD DOWN-BATTERY	1REF
13.	70394436	DECAL-JUMP START 12/24V	1
14.	77041251	RELAY	1



GENERATOR KIT-6000 WATT (51710139)

1.	51711674	110V OUTLET KIT	1
2.	77042064	GENERATOR 6000W	1
3.	72060051	CAP SCR 3/8-16X2-1/4 HHGR5	4
4.	72062103	NUT 3/8-16 NYLOC	4
5.	72063003	WASHER 3/8 WRT	4
6.	72060011	CAP SCR 1/4-20X2-3/4 HHGR5	1*
7.	72062104	NUT 1/4-20 NYLOC	1*
8.	72063049	WASHER 1/4 LOCK	1*
9.	77044075	CONNECTOR .50 CONDUIT	4*
10.	89034271	CONDUIT .50 FLEXIBLE	20Ft*
11.	77044076	CONNECTOR .50 90°	4*
12.	77044691	FUSE HOLDER (PART OF 1)	1
13.	77044978	FUSE 15AMP	1
14.	77041609	CAPACITOR 6KW (PART OF 2)	1

* NOT SHOWN

FLOODLIGHT KIT-110V (51708339-QTY 3)

15.	77040134	FLOODLIGHT 500W	1
16.	89044039	CABLE 14GA/3 WIRE	15Ft*
17.	77044268	CONNECTOR-TWIST	3
18.	77044074	COVER 4X4	1
19.	77044293	ELEC BOX 4X4X2	1

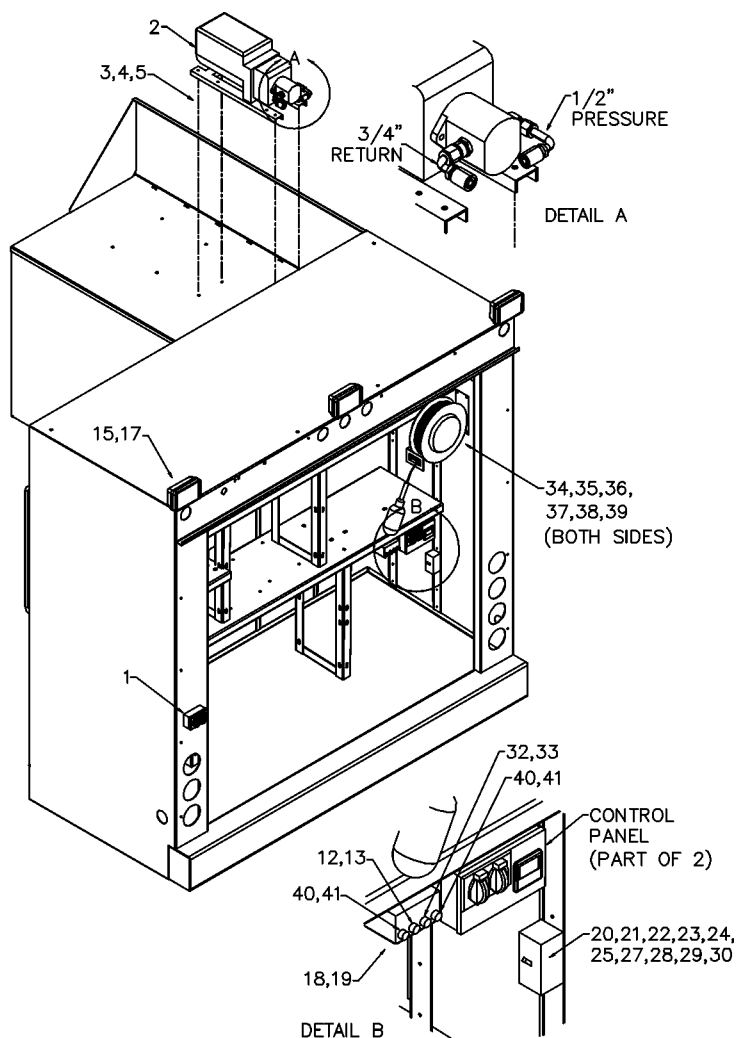
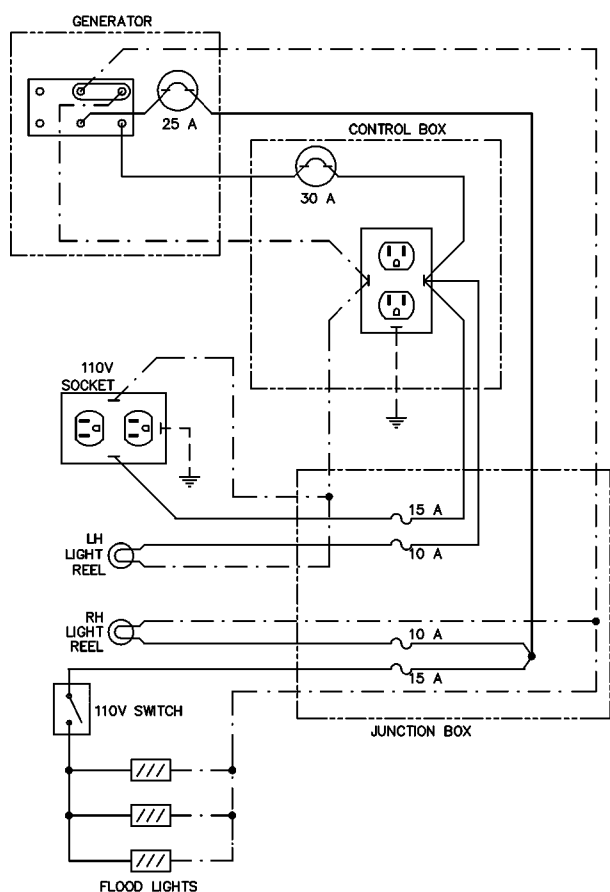
* NOT SHOWN

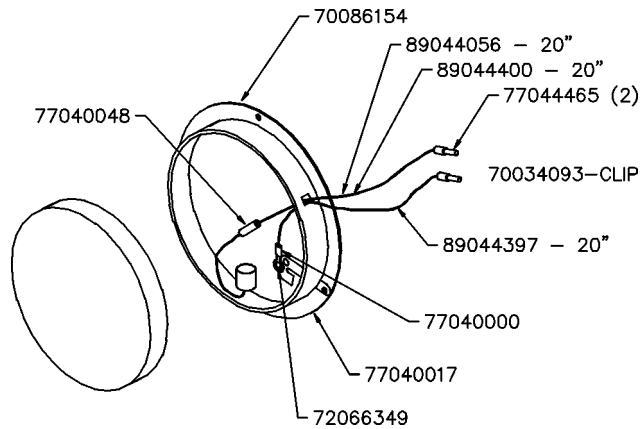
SWITCH KIT-110V (51711996)

20.	77044101	SWITCH-SINGLE POLE	1
21.	77044372	ELEC BOX 2X4	1
22.	77044088	COVER 2X4	1
23.	72060004	CAP SCR 1/4-20X1 HHGR5	4
24.	72062104	NUT 1/4-20 NYLOC	4
25.	72063001	WASHER 1/4 WRT	4
26.	72066580	CLAMP	5*
27.	77040048	TERM-BUTT CONNECTOR	6
28.	77044099	CONNECTOR	2
29.	77044201	NUT-ELEC .50 LOCK	3
30.	77044268	CONNECTOR-TWIST	6
31.	89044039	CABLE-14 GA/3 WIRE	27Ft*
32.	77044691	FUSE HOLDER	1
33.	77044978	FUSE 15AMP	1

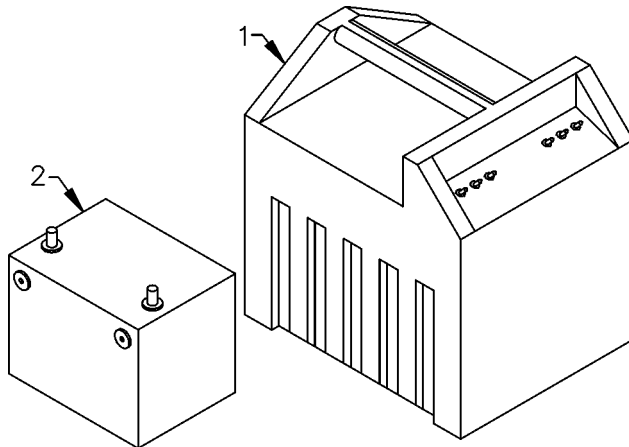
LIGHT REEL-110V (51716324)

34.	70733493	REEL-110V	1
35.	72060025	CAP SCR 5/16-18X1 HHGR5	4
36.	72062109	NUT 5/16-18 NYLOC	4
37.	76392598	WASHER 5/16 BONDED	4
38.	72063002	WASHER 5/16 WRT	4
39.	77040224	LIGHT BULB 110V 75W	1
40.	89044072	CABLE 12GA/3 WIRE	18Ft
41.	77044691	FUSE HOLDER	1
42.	77044979	FUSE 10AMP	1

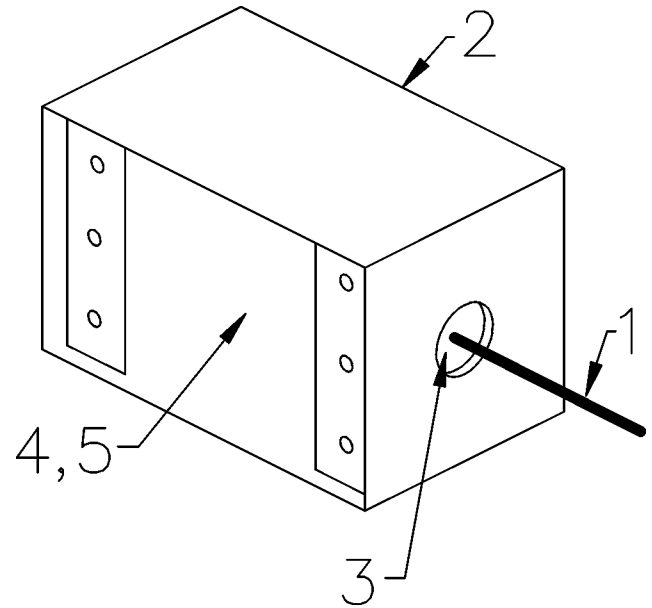


LIGHT-COMPARTMENT (51713376)**TRAILER TESTER ASM (51716085)**

- | | | | |
|----|----------|----------------|---|
| 1. | 70733457 | TRAILER TESTER | 1 |
| 2. | 77042044 | BATTERY 12V | 1 |

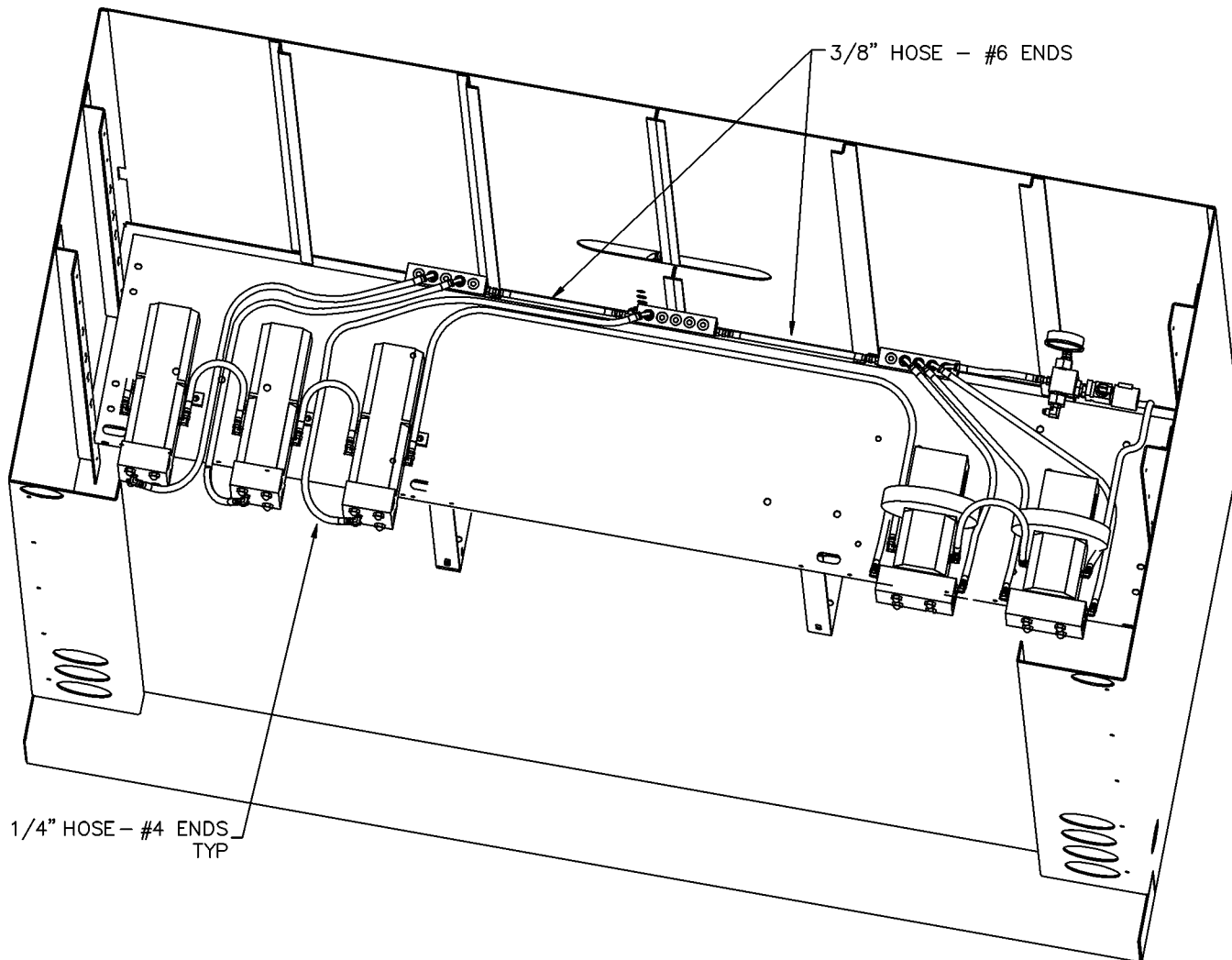
**OUTLET-110V (51711674)**

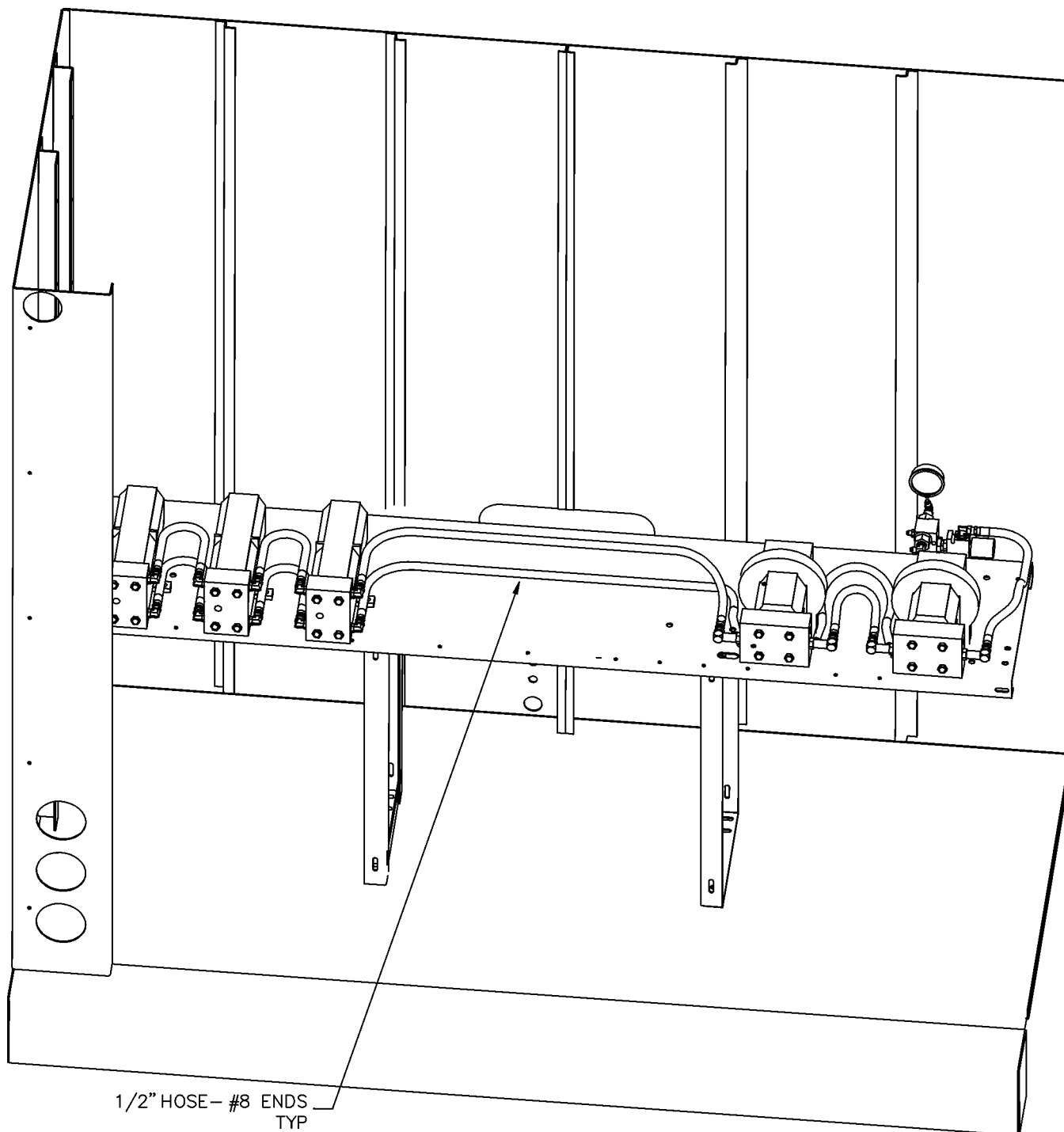
- | | | | |
|----|----------|--------------------|------|
| 1. | 76393038 | GROMMET 7/16 | 1 |
| 2. | 77044018 | ½ STRAIN RELIEF | 1 |
| 3. | 89044039 | CABLE-14 GA/3 WIRE | 20ft |
| 4. | 77044569 | OUTLET | 1 |
| 5. | 77040230 | TERMINAL SPADE | 3 |

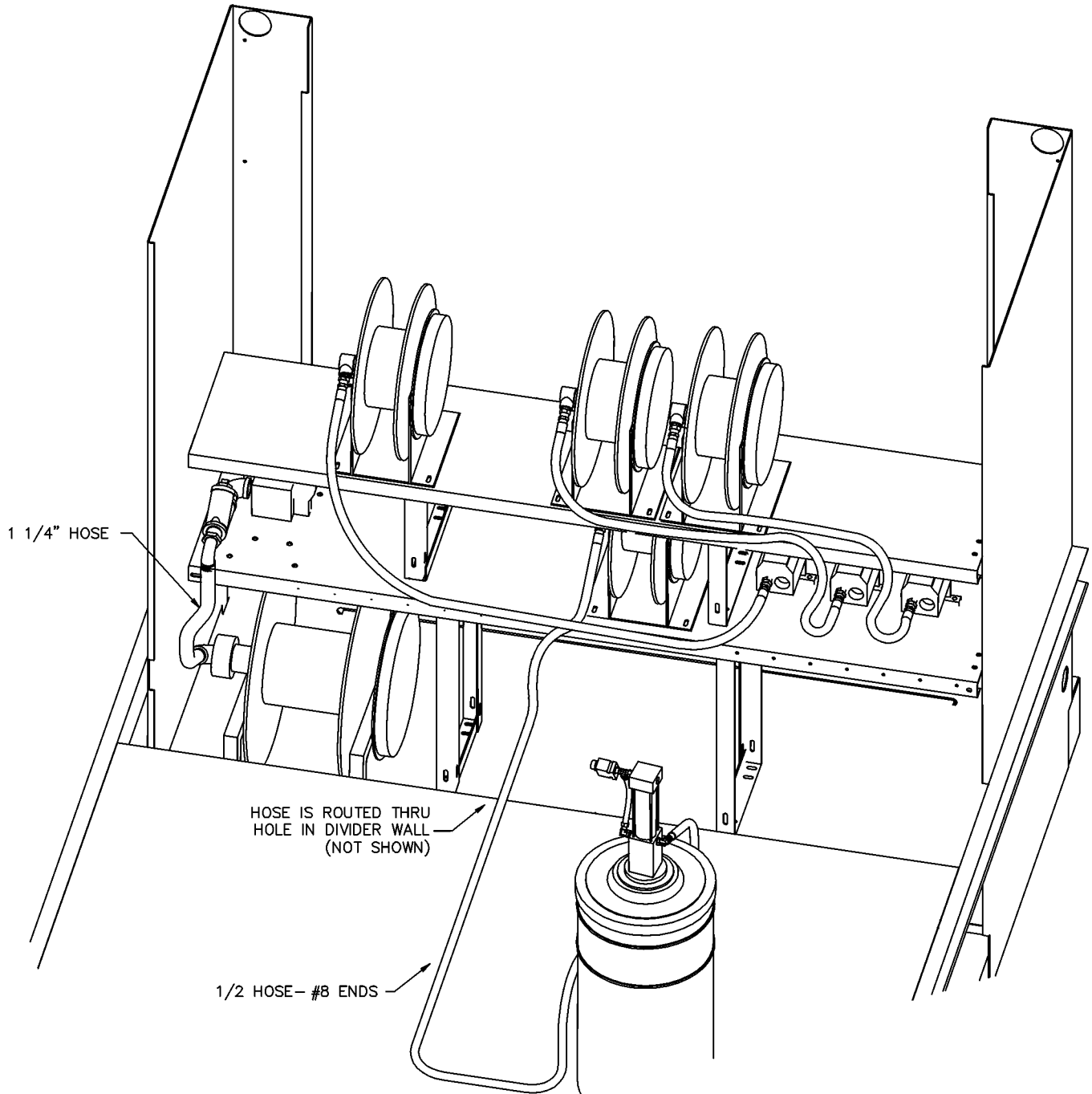


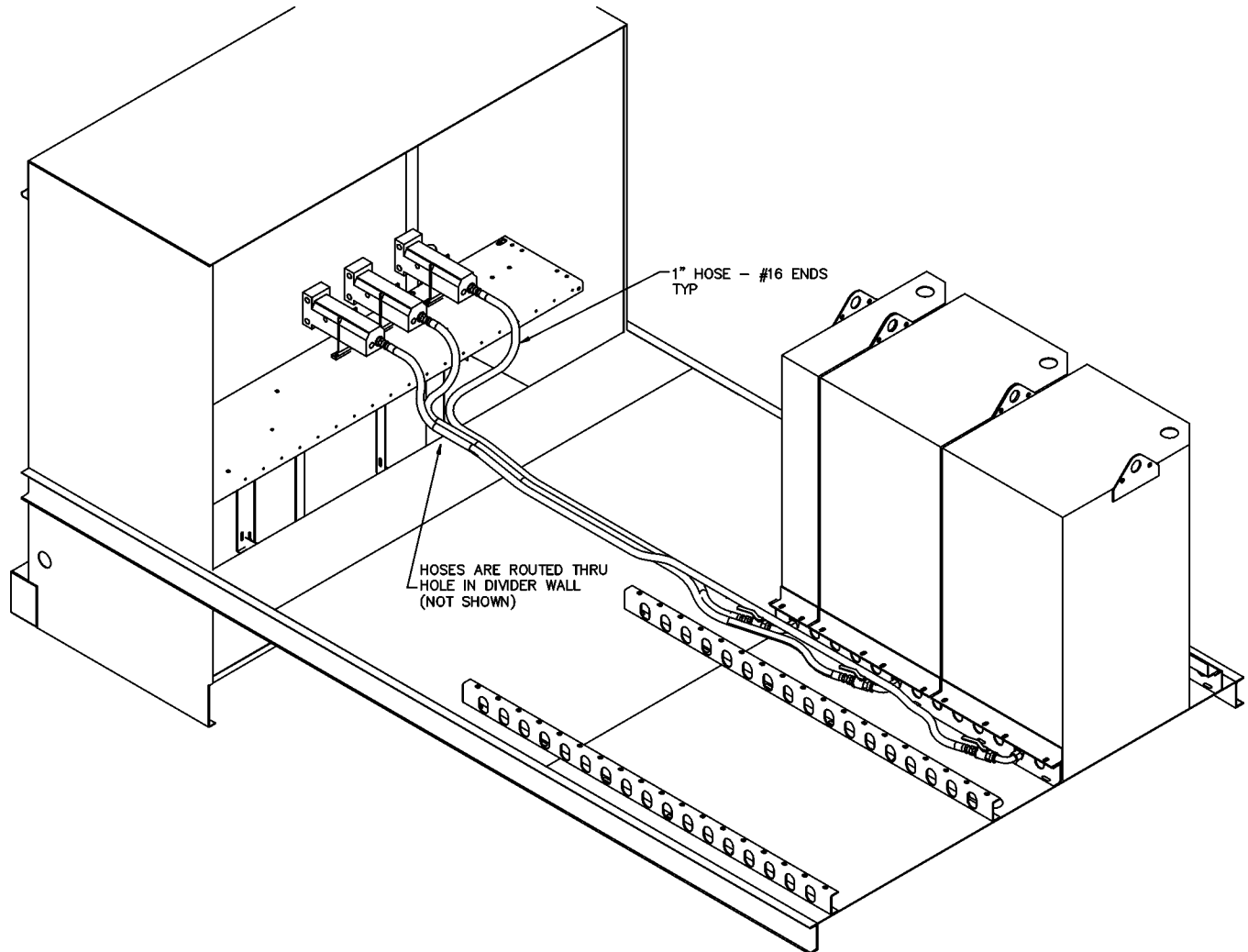
HOSE RTG-PUMP DRAIN/LOADSENSE 3
HOSE RTG-PUMP PRESSURE/RETURN 4
HOSE RTG-PUMP TO REEL 5
HOSE RTG-TANK TO PUMP-OIL 1-3 6
HOSE RTG-COMPRESSOR 7
HOSE RTG-TO RESERVOIR 8
HOSE RTG-UNDERBODY 9

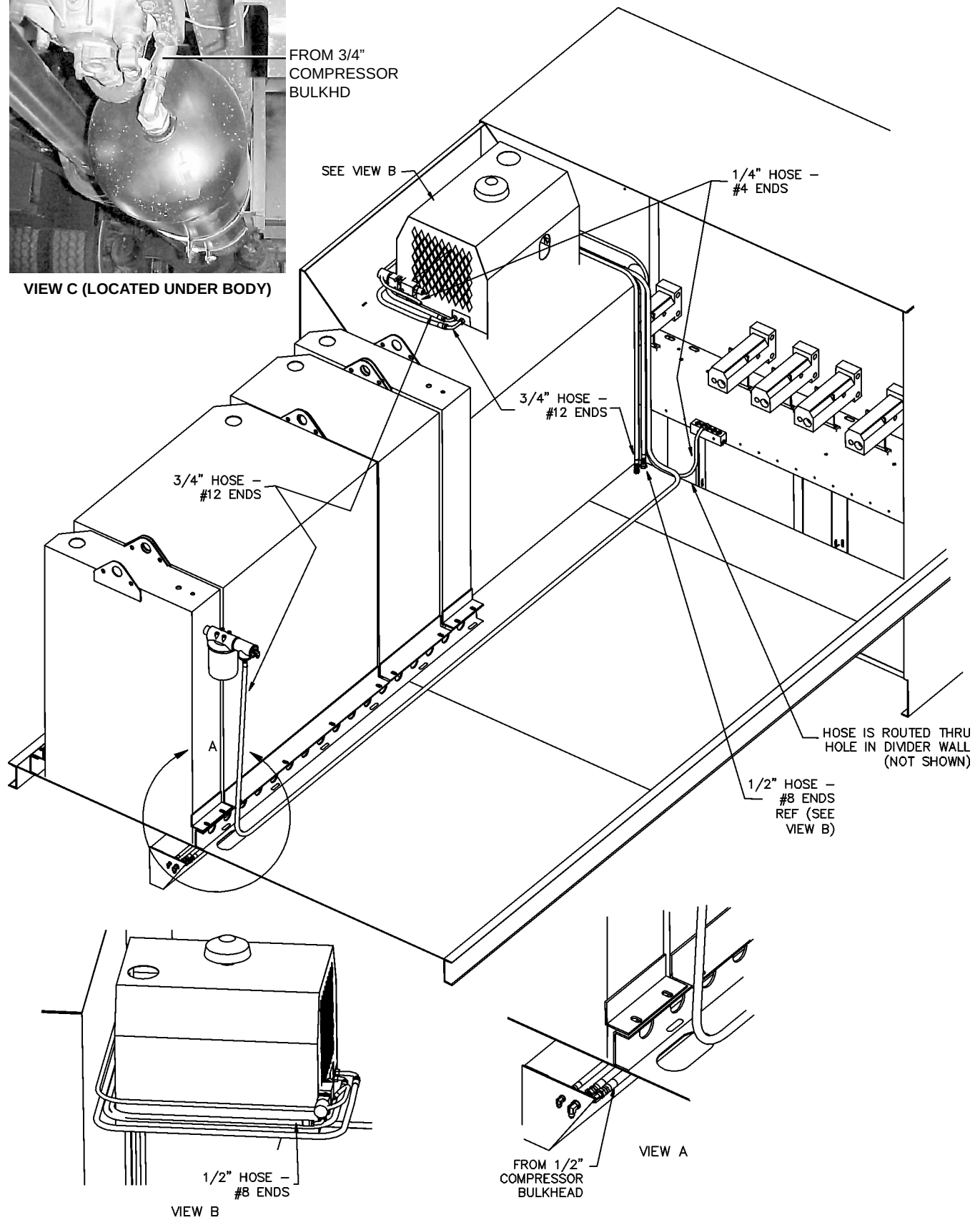
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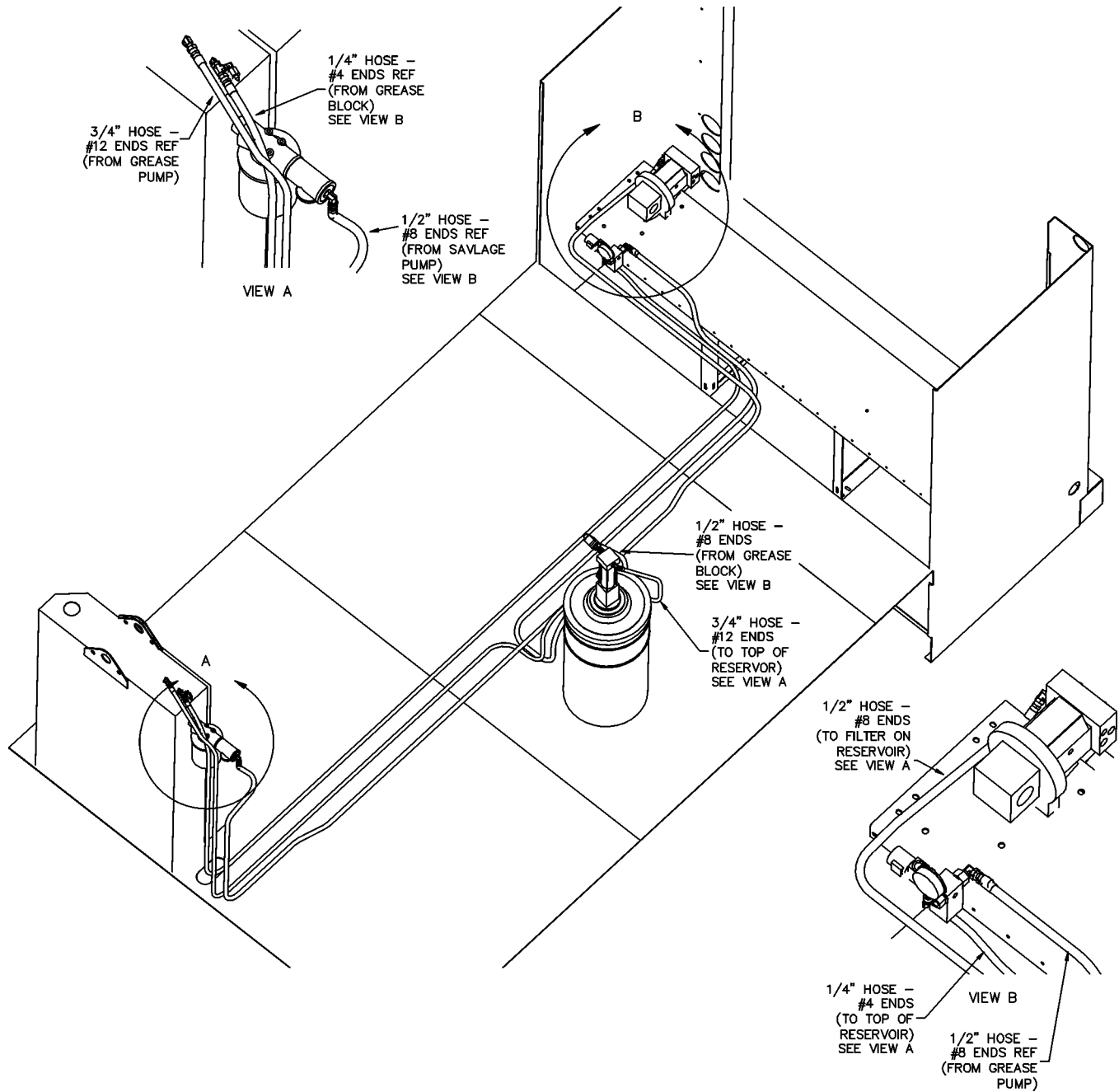
HOSE RTG-PUMP DRAIN/LOADSENSE**NOTE: ONLY LOWER PUMPS SHOWN.**

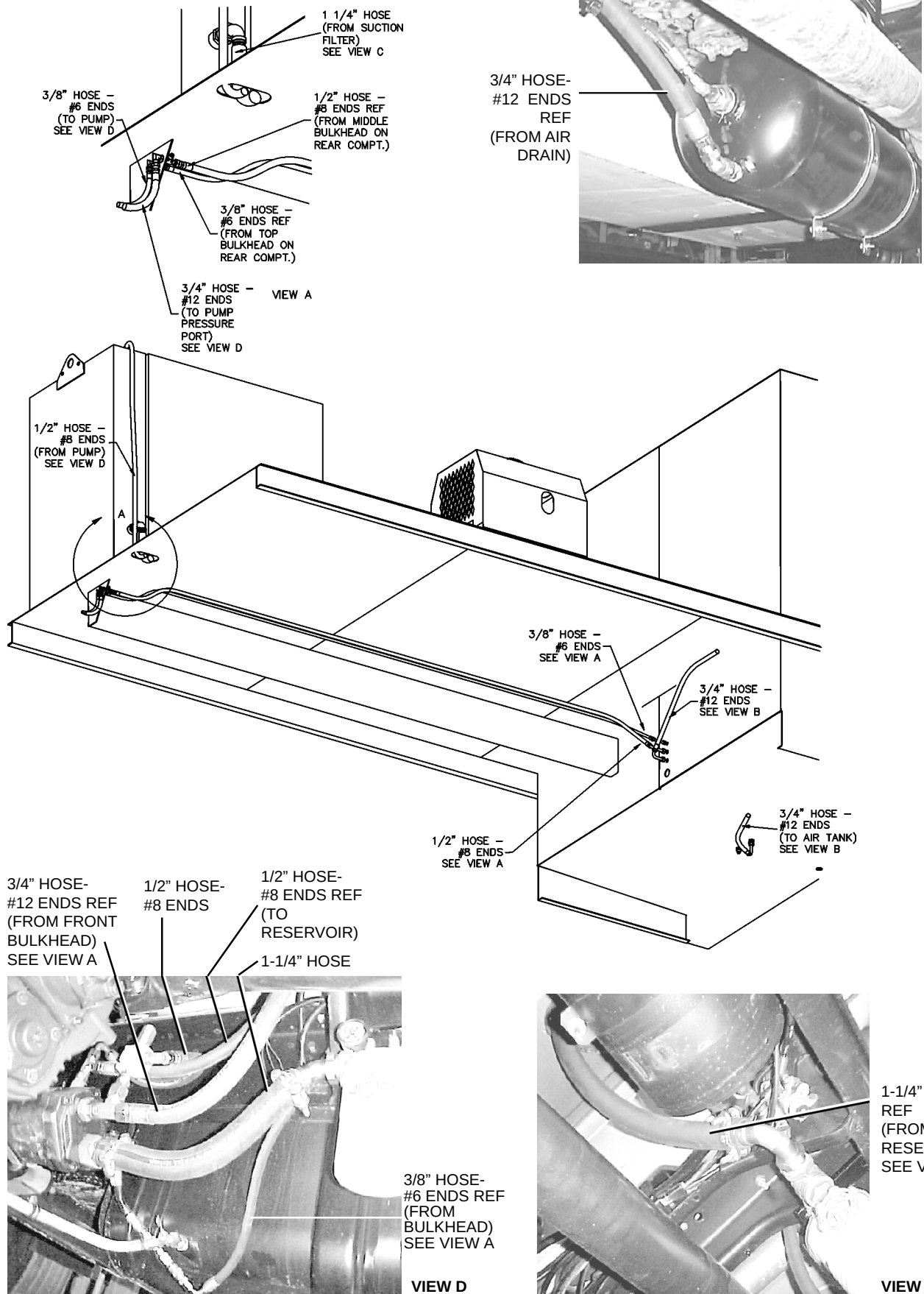
HOSE RTG-PUMP PRESSURE/RETURN**NOTE: ONLY LOWER PUMPS SHOWN.**

HOSE RTG-PUMP TO REEL**NOTE: ONLY LOWER PUMPS SHOWN.**

HOSE RTG-TANK TO PUMP-OIL 1-3**NOTE: ONLY LOWER PUMPS SHOWN.**

HOSE RTG-COMPRESSOR**VIEW C (LOCATED UNDER BODY)**

HOSE RTG-TO RESERVOIR

HOSE RTG-UNDERBODY

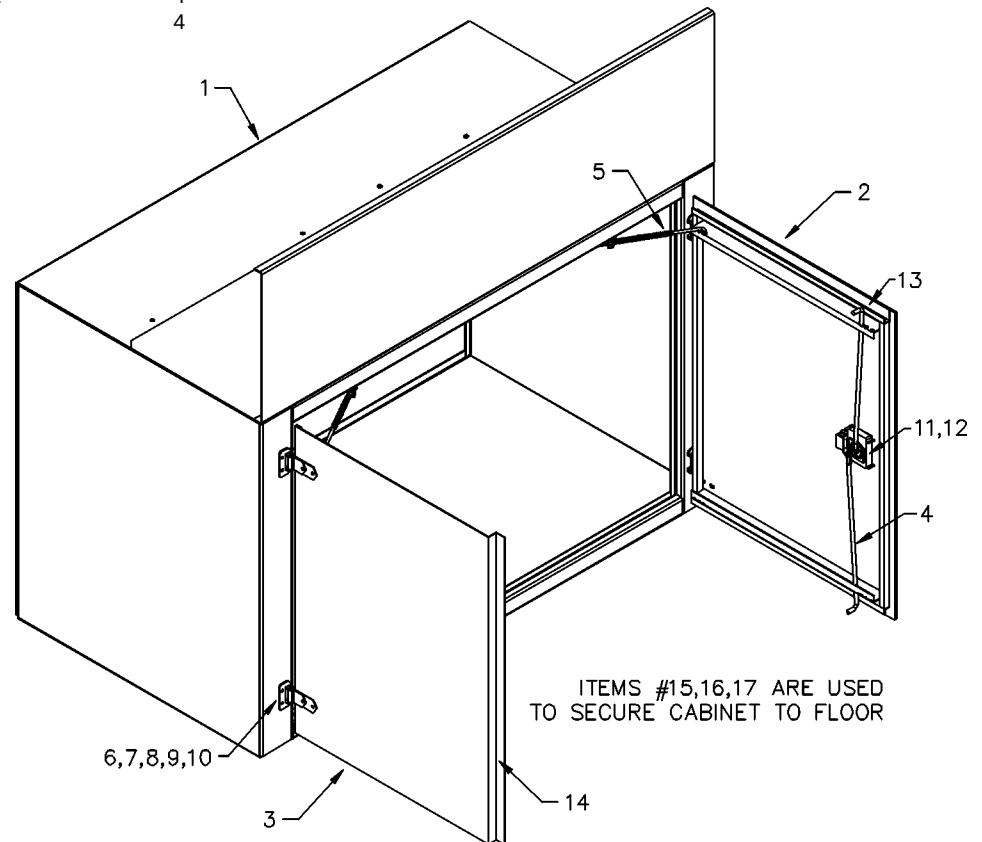
CABINET-FILTER-DBL DOOR W/ PANEL (51716113)	3
CABINET-FILTER-DBL DOOR (51716070)	4
UNDERBODY TOOLBOX-SGL DOOR	5
UNDERBODY TOOLBOX-DBL DOOR	6
ROLL-UP DOOR (EFF: 4-1-01 / 70733506)	6
ROLL-UP DOOR (PRE: 4-1-01 / 70732814)	6
UNDERBODY FILTER DRAIN BOX	7
SHELF ASM	8
DOOR-SIDE ACCESS (51716076)	9
DRAIN PAN ASM-16 GAL	10
DRAIN PAN ASM-FILTER BOX (52716075)	10

NOTES

[illegible]

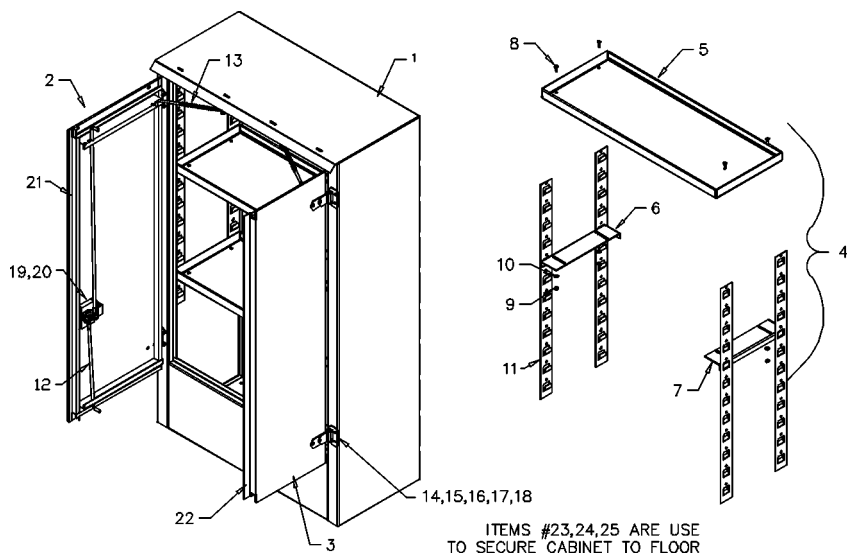
CABINET-FILTER-DBL DOOR W/ PANEL (51716113)

1.	52716106	40Hx63Wx34D WELDMENT	1
2.	52716102	DOOR-36.88x28.00 W/LATCH	1
3.	52716101	DOOR-36.88x27.25 W/O LATCH	1
4.	60122595	ROD-DOOR 17.63 LG	1
5.	70141288	DOOR STOP/SPRING (part of 1)	1
6.	72601652	MACH SCR 1/4-20X3/4 TORX-SS	16
7.	72063166	WASHER 1/4 WRT	8
8.	72062194	NUT 1/4-20 NYLOC SS	12
9.	72062264	WELD NUT 1/4-20	4
10.	72661383	HINGE-STAINLESS STEEL	4
11.	76393253	LATCH GASKET	1
12.	72661510	LATCH 2PT W/STUDS	1
	72661527	CYLINDER/KEY	REF
	94732135	PIN & WASHER KIT	REF
13.	89393607	WEATHERSTRIP .62x.50	15ft
14.	89393638	WEATHERSTRIP .75x.38	3.5ft
15.	72060047	CAP SCR 3/8-16x1.25	4
16.	72062103	NUT 3/8-16 NYLOC Z	4
17.	72063003	WASHER 3/8 WRT Z	4



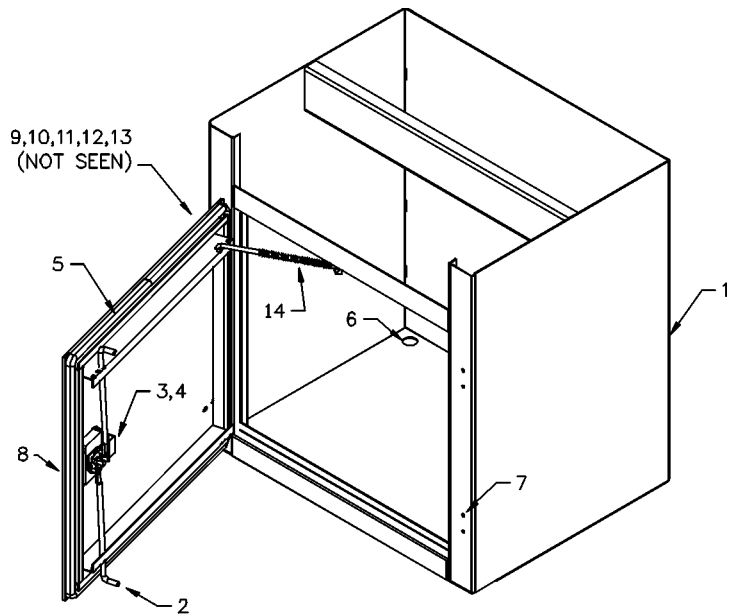
CABINET-FILTER-DBL DOOR (51716070)

1.	52716071	CABINET-61Hx35Wx16D	1	14.	72601652	MACH SCR ¼-20X¾ TORX-SS	16
2.	52716314	DOOR-48.88x18.00 W/LOW LATCH	1	15.	72062194	NUT ¼-20 NYLOC SS	12
3.	52713089	DOOR-48.88x13.63 W/O LATCH	1	16.	72063166	WASHER ¼ SS	8
4.	51708250	SHELF-ADJ 13X35-39	2	17.	72062264	WELD NUT ¼-20	4
5.	60114615	SHELF-13X34 (part of 4)	2	18.	72661383	HINGE-STAINLESS STEEL	4
6.	60112217	END-ADJ SHELF LH 13 (part of 4)	2	19.	76393253	LATCH GASKET	1
7.	60112218	END-ADJ SHELF RH 13 (part of 4)	2	20.	72661510	LATCH 2PT W/STUDS	1
8.	72060025	CAP SCR 5/16-18X1 (part of 4)	4		72661527	CYLINDER/KEY	REF
9.	72062109	NUT 5/16-18 NYLOC Z (part of 4)	4		94732135	PIN & WASHER KIT	REF
10.	72063001	WASHER ¼ WRT Z (part of 4)	4	21.	89393607	WEATHERSTRIP .62X.50	12.5ft
11.	60107745	HANGER BRACKET-36 (part of 1)	1	22.	89393638	WEATHERSTRIP .75X.38	4.5ft
12.	60122823	ROD-DOOR 13.63 LG	1	23.	72060047	CAP SCR 3/8-16X1.25 HHGR5 Z	4
13.	70141288	DOOR STOP/SPRING (part of 1)	1	24.	72062103	NUT 3/8-16 NYLOC Z	4
				25.	72063003	WASHER 3/8 WRT Z	4



UNDERBODY TOOLBOX-SGL DOOR

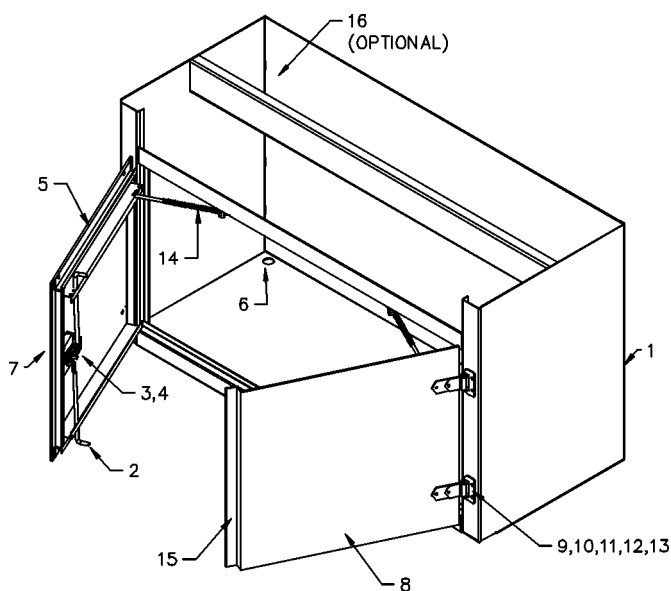
1.	52711722	25Hx28Lx21D WELDMENT	1
2.	60117449	ROD-DOOR 10.25 LG	2
3.	72661510	LATCH-2PT	1
	72661527	CYLINDER/KEY	REF
	94732135	PIN & WASHER KIT	REF
4.	76393253	LATCH GASKET W/STUDS	1
5.	89393607	WEATHERSTRIP .62x.50	7ft
6.	70034366	PLUG-BUTTON 1-1/8 HOLE	2
7.	70393719	PLUG-PLASTIC .226 HOLE	4
8.	52711734	DOOR 22.13Hx23.63W (part of 1)	1
9.	72661383	HINGE-STAINLESS STEEL (part of 1)	2
10.	72601652	MACH SCR 1/4-20X3/4 (part of 1)	8
11.	72063166	WASHER 1/4 SS (part of 1)	6
12.	72062264	WELD NUT 1/4-20 (part of 1)	2
13.	72062194	NUT 1/4-20 NYLOC SS (part of 1)	6
14.	70144288	DOOR STOP/SPRING (part of 1)	1



UNDERBODY TOOLBOX-DBL DOOR

1.	52711726	25Hx52Lx21D WELDMENT	1
2.	60117449	ROD-DOOR 10.25" LG	2
3.	72661510	LATCH-2PT	1
	72661527	CYLINDER/KEY	REF
	94732135	PIN & WASHER KIT	REF
4.	76393253	LATCH GASKET W/STUDS	1
5.	89393607	WEATHERSTRIP .62x.50	12ft
6.	70034366	PLUG-BUTTON 1-1/8 HOLE	2
7.	52711734	DOOR-22.13HX23.63W W/LATCH	*1
8.	52711732	DOOR-22.13HX23.63W W/O LATCH	*1
9.	72661383	HINGE-STAINLESS STEEL	*4
10.	72601652	MACH SCR 1/4-20X3/4 TORX-SS	*16
11.	72063166	WASHER 1/4 SS	*12
12.	72062264	WELD NUT 1/4-20	*4
13.	72062194	NUT 1/4-20 NYLOC SS	*12
14.	70144288	DOOR STOP/SPRING	*2
15.	89393638	WEATHERSTRIP .75X.38	*2ft
16.	70034290	PLUG-BUTTON 1-1/4 HOLE (option)	1

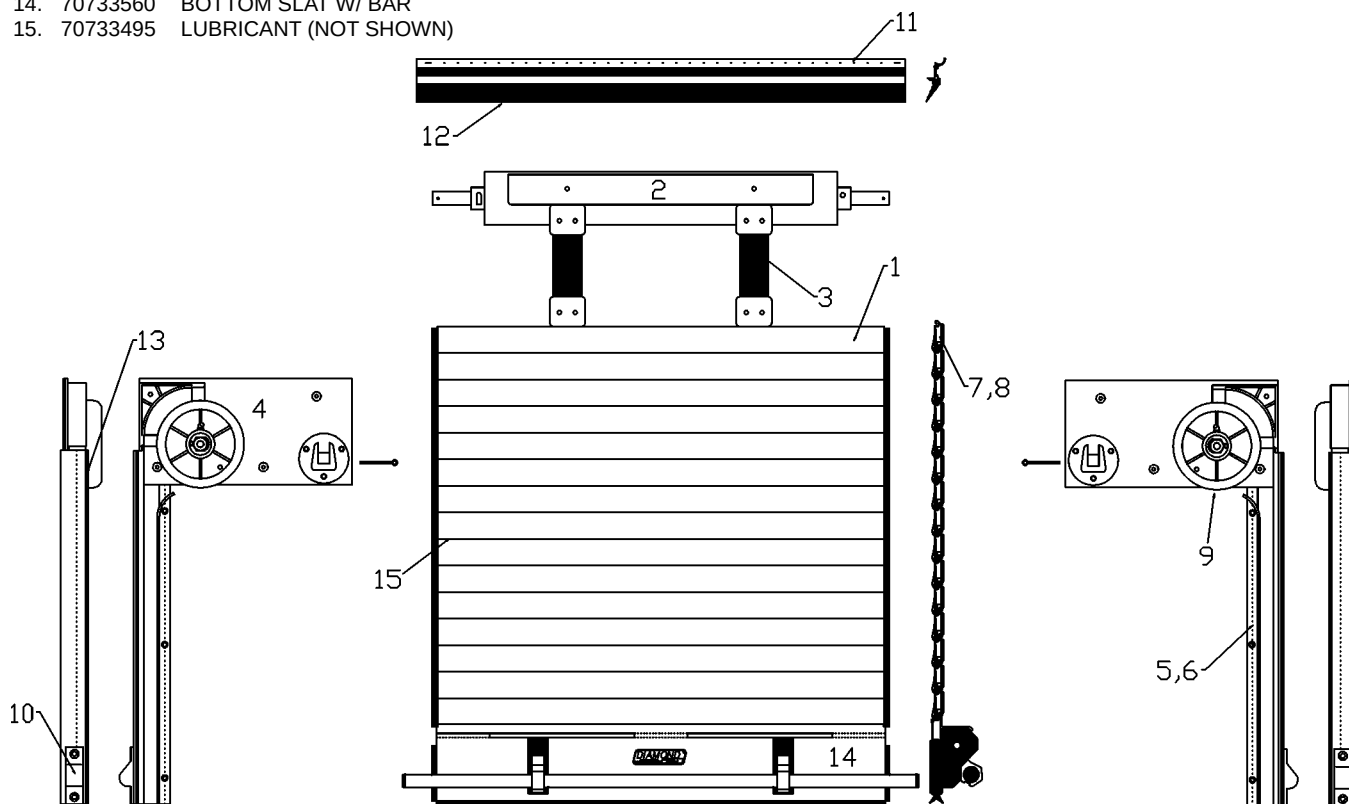
* Part of item 1.

**ROLL-UP DOOR (EFF: 4-1-01 / 70733506)****74W X 71H OPENING**

1.	70733547	BOX SLAT
2.	70733548	COUNTER BALANCE
3.	70733549	COUNTER BALANCE STRAP
4.	70733550	BRACKE-WHEEL/COUNTER BALANCE
5.	70733551	SIDE GUIDE
6.	70733552	FRONT GUIDE
7.	70733553	SLAT CLIP LEFT HAND
8.	70733554	SLAT CLIP RIGHT HAND
9.	70733561	WHEEL
10.	70733556	BAR LOCK STRIKER
11.	70733557	HEADER
12.	70733558	HEADER SEAL
13.	70733559	SIDE SEAL
14.	70733560	BOTTOM SLAT W/ BAR
15.	70733495	LUBRICANT (NOT SHOWN)

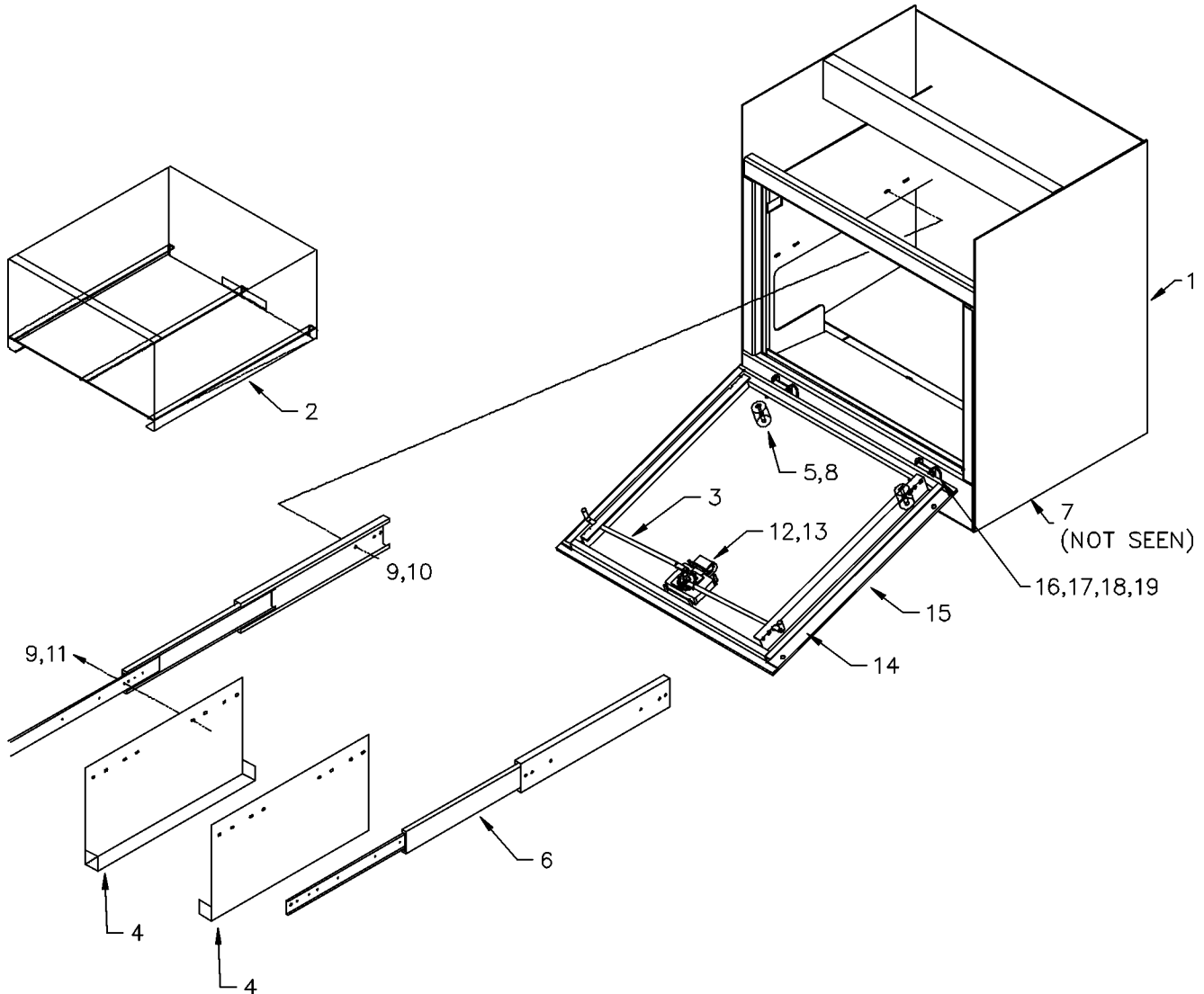
ROLL-UP DOOR (PRE: 4-1-01 / 70732814)**74W X 71H OPENING**

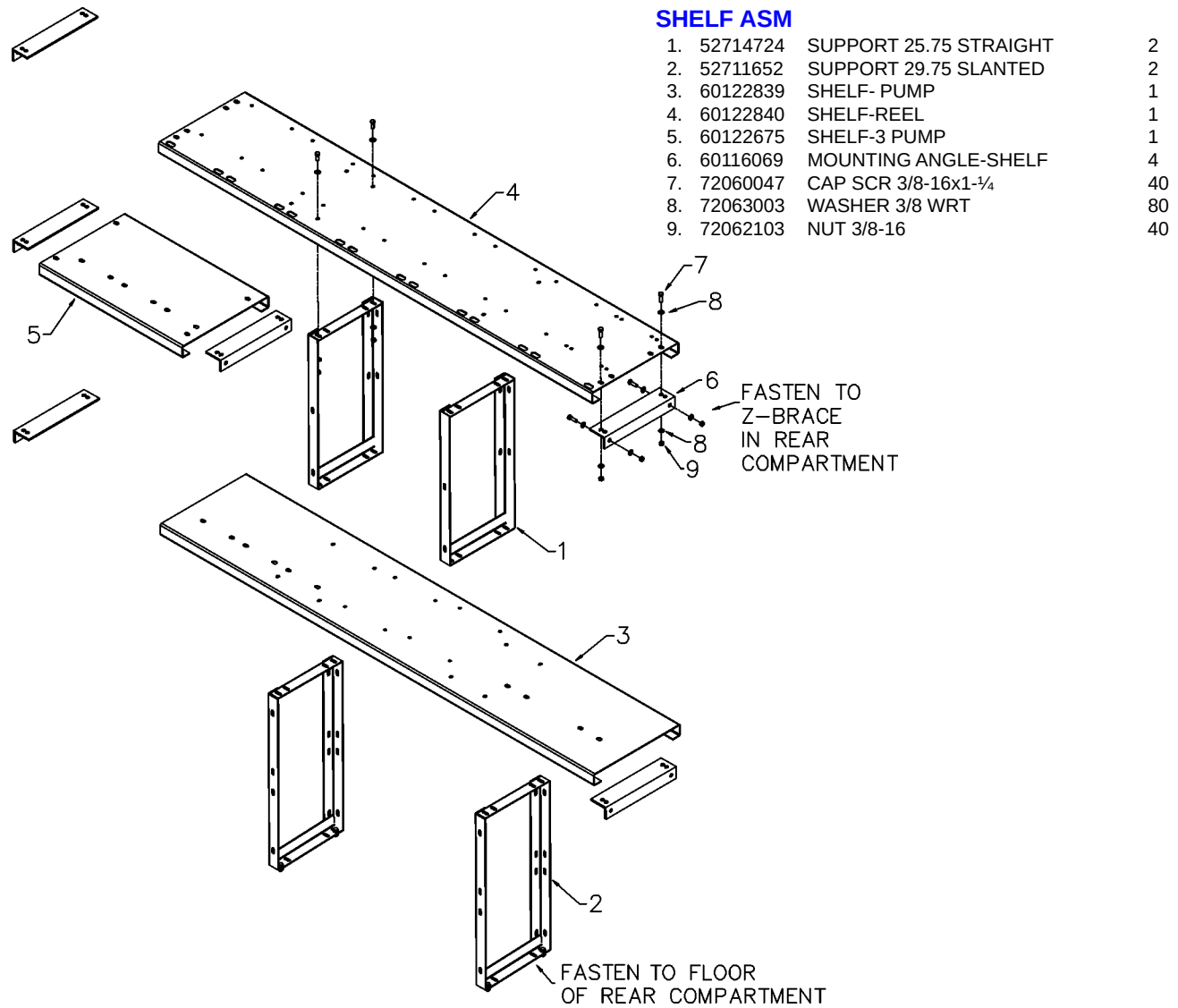
1.	70145904	SLAT W/ SIDE
5.	70733151	TRACK (2 EA)
7.	77041508	END SHOE
11.	70034442	DRIP RAIL
13.	76394328	SIDE SEAL



UNDERBODY FILTER DRAIN BOX

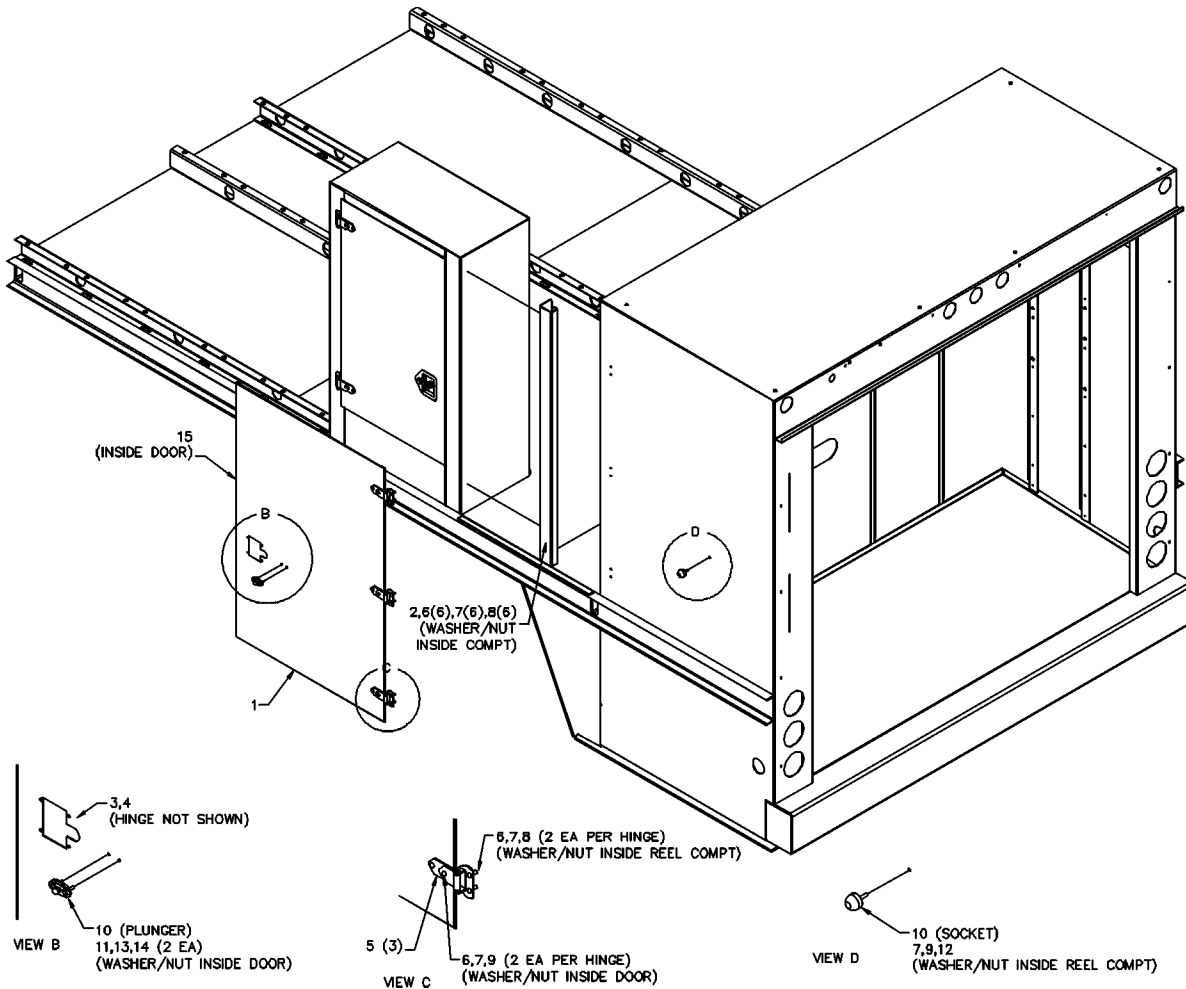
1.	52713132	24HX28LX21D WELDMENT	1	11.	72601284	MACH SCR #10-24X.62 FLH SL ZINC	8
2.	52713133	DRAWER-FILTER DRAIN	1	12.	72661510	LATCH-2PT	1
3.	60112502	ROD-DOOR 12.25 LG	2		72661527	CYLINDER/KEY	REF
4.	60119250	BRACKET-ROLL OUT BOX R/L	2		94732135	PIN & WASHER KIT	REF
5.	70391615	BUMPER-RUBBER	2	13.	76393253	LATCH GASKET W/STUDS	1
6.	70731871	DRAWER SLIDE-18 LG	2	14.	89393607	WEATHERSTIP .62X.50	6ft
7.	72053248	PLUG-PIPE SQHD 1"	1	15.	52713221	DOOR-WELDMENT (part of 1)	1
8.	72060711	CAP SCR ¼-20X2 SH	2	16.	72062194	NUT ¼-20 NYLOC SS (part of 1)	2
9.	72062106	NUT #10-24 HEX NYLOC ZINC	16	17.	72062264	NUT ¼-20 WELD (part of 1)	2
10.	72601283	MACH SCR #10-24X.50 PN SL ZINC	8	18.	72601652	MACH SCR ¼-20X¾ TORX (part of 1)	6
				19.	72661383	HINGE-STAINLESS STEEL (part of 1)	2





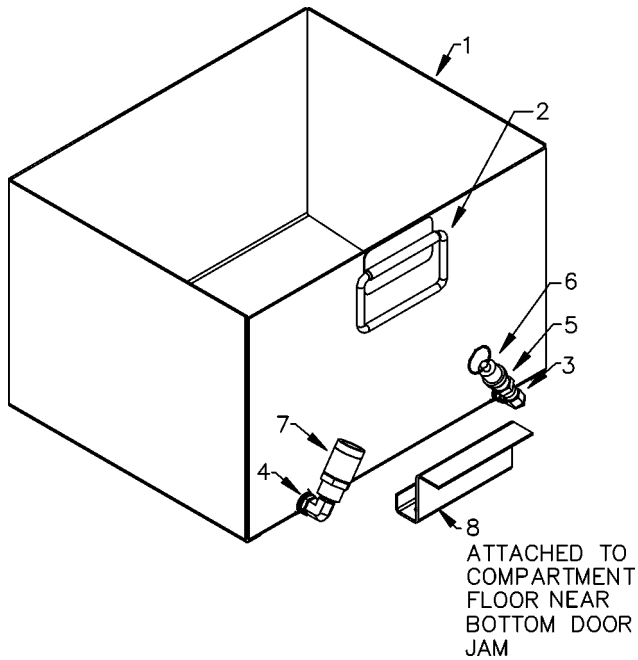
DOOR-SIDE ACCESS (51716076)

1.	60122825	DOOR-57.50X32	1	8.	76392820	WASHER ¼ BONDED	12
2.	60122824	PANEL-LATCH CATCH	1	9.	72063166	WASHER ¼ WRT SS	7
3.	72661512	LATCH-3PT	1	10.	72066376	PLUNGER/SOCKET	1
4.	76393253	LATCH GASKET W/STUDS	1	11.	72601552	MACH SCR #10-24X2 SS	2
5.	72661383	HINGE-STAINLESS STEEL	3	12.	72601593	CAP SCR ¼-20X1.50	1
6.	72601652	MACH SCR ¼-20 X.75 TORX SS	18	13.	72062123	NUT #10-24 NYLOC	2
7.	72062194	NUT ¼-20 NYLOC SS	19	14.	72063181	WASHER #10 WRT SS	2
				15.	89391284	WEATHERSTRIP .19X.75	5ft

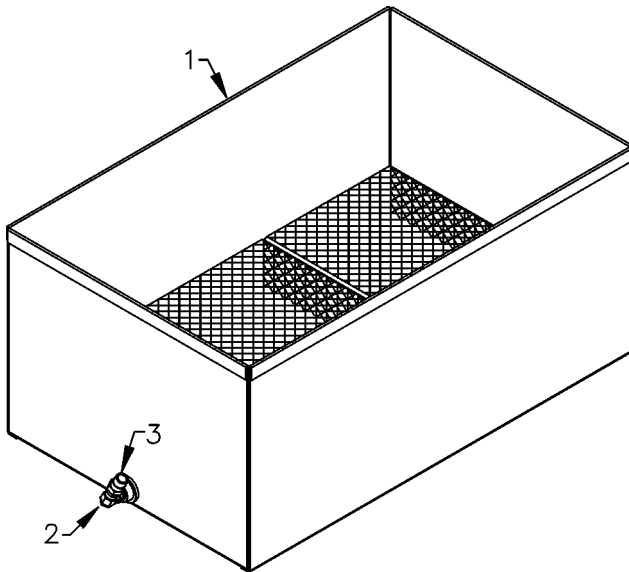


DRAIN PAN ASM-16 GAL

- | | | | |
|----|----------|-----------------------------|------|
| 1. | 52716075 | DRAIN PAN 16-GAL | 1 |
| 2. | 72661523 | HANDLE (PART OF 1) | 2REF |
| 3. | 72053556 | STREET ELBOW 3/4NPT 90° | 1 |
| 4. | 72053713 | ELBOW 3/4MPT 3/4FPT 90° | 1 |
| 5. | 72532408 | RECEIVER-FAST FILL | 1 |
| 6. | 72532718 | CAP-FAST FILL | 1 |
| 7. | 72532426 | SOCKET-FAST FILL | 1 |
| 8. | 60250784 | BRACKET-COMPARTMENT LIP | 1 |
| 9. | 72661533 | KEY RING 3/4 ID (NOT SHOWN) | 1 |

**DRAIN PAN ASM-FILTER BOX (52716075)**

- | | | | |
|----|----------|-------------------------|---|
| 1. | 52716074 | DRAIN PAN | 1 |
| 2. | 72053556 | STREET ELBOW 3/4NPT 90° | 1 |
| 3. | 72532408 | RECEIVER-FAST FILL | 1 |



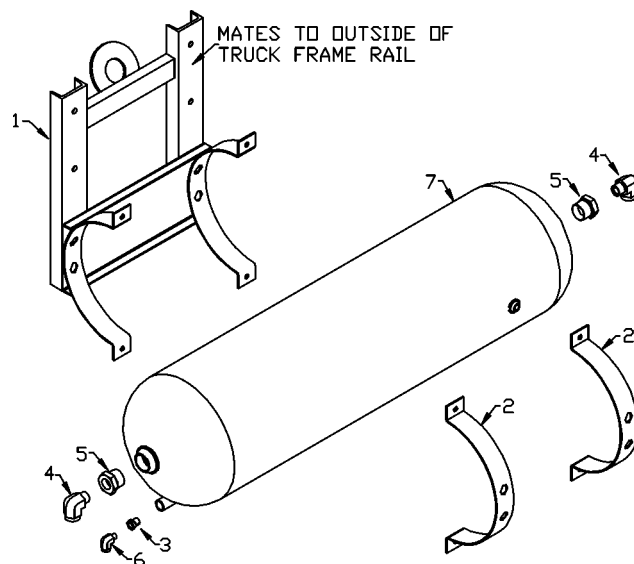
AIR TANK KIT-22 GAL FRAME MNT (51709804) 3
AIR TANK DRAIN ASM 3
FLR ASM 1/2” HOSE REEL (51713783) 4
LUBRICATOR (70073375) 5
FILTER (70145684) 5
REGULATOR (70048101) 6

NOTES

[illegible]

AIR TANK KIT-22 GAL FRAME MNT (51709804)

1.	52709697	BRACKET WELDMENT	1
2.	60106492	BRACKET-TANK	2
3.	72053372	REDUCER 3/8NPT 1/4NPT	2
4.	72053556	STREET ELBOW 3/4NPT 90°	2
5.	72531836	REDUCER 1-1/4NPT 3/4NPT	2
6.	72053282	STREET ELBOW 1/4NPT 90°	1
7.	70733423	AIR TANK-22 GAL	1
8.	72060096	CAP SCR 1/2-13X2-1/2 HHGR5	4
9.	72062080	NUT 1/2-13 LOCK	4
10.	72063005	WASHER 1/2 WRT	8
11.	72060048	CAP SCR 3/8-16X1-1/2 HHGR5	4
12.	72063103	NUT 3/8-16 LOCK	4
FOLLOWING ITEMS NOT SHOWN:			
13.	71393886	DECAL-EXPLODING TANK	1
14.	72066000	HOSE CLAMP 1/2 1-1/4	4
15.	72532559	HOSE FITTING-TYPE O 3/4-3/4	2
16.	89392349	HOSE 3/4	20FT

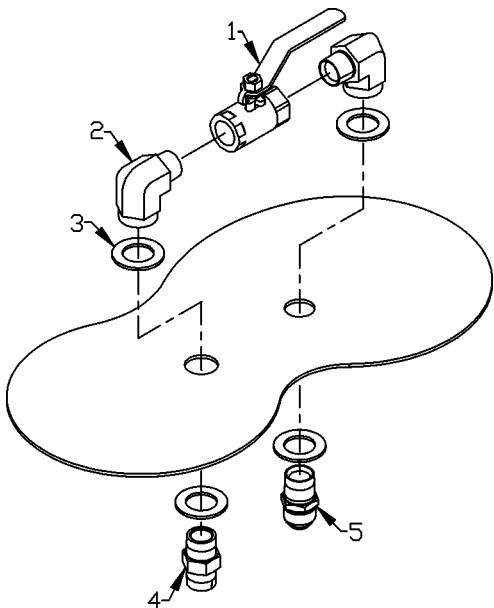


#8,#9,#10 ARE USED TO MOUNT THE TANK BRACKET (ITEM #1) TO THE TRUCK FRAME.

#11,#12 ARE USED TO MOUNT THE TANK TO THE TANK BRACKET.

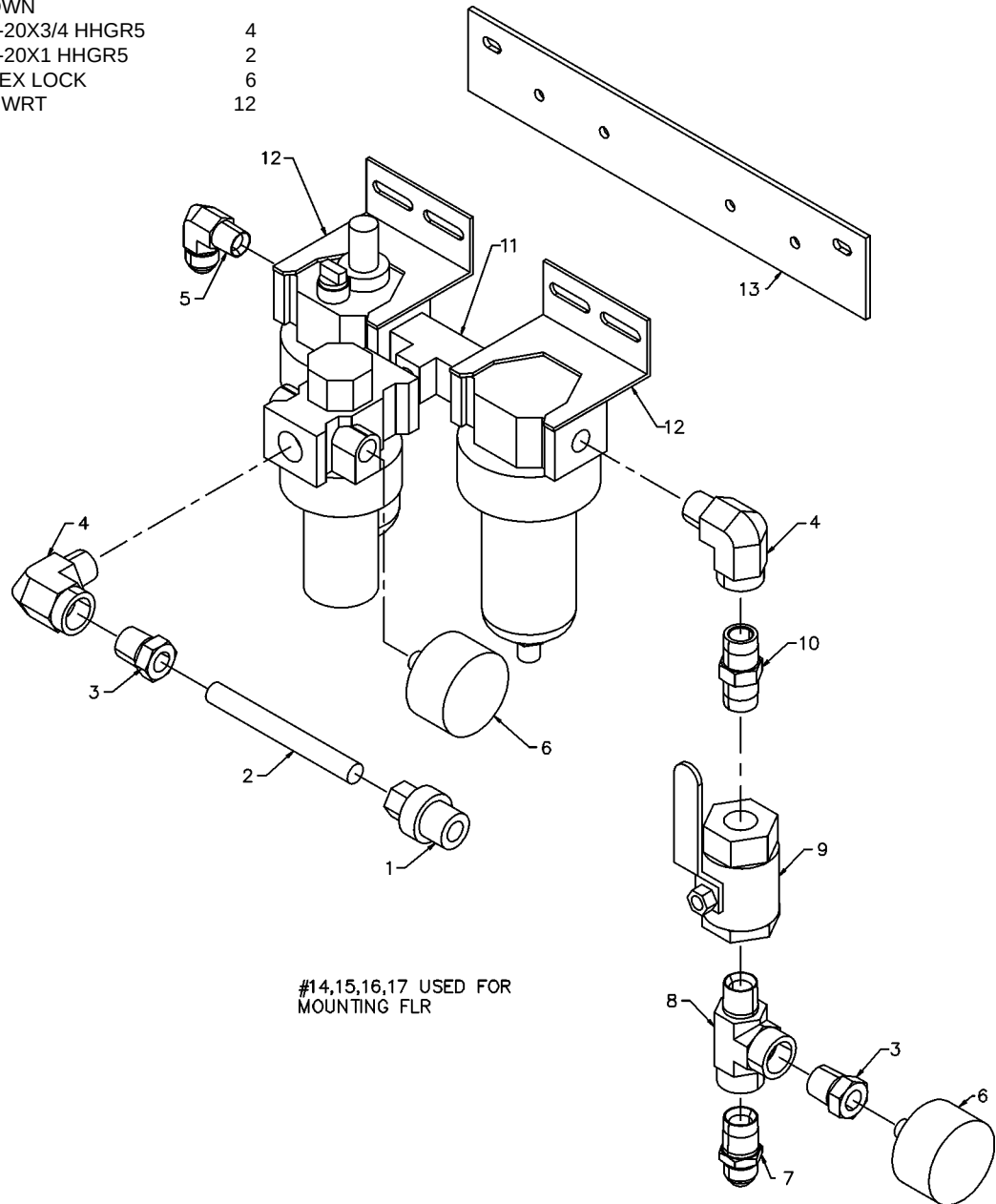
AIR TANK DRAIN ASM

1.	73054230	BALL VALVE 3/4NPT	1
2.	72053556	STREET ELBOW 3/4NPT 90°	2
3.	72063066	WASHER 1 FLAT	4
4.	72053558	ADAPTER 3/4MPT 3/4MPT HEX	1
5.	72053676	ADAPTER 3/4MPT #12MJIC	1



FLR ASM 1/2" HOSE REEL (51713783)

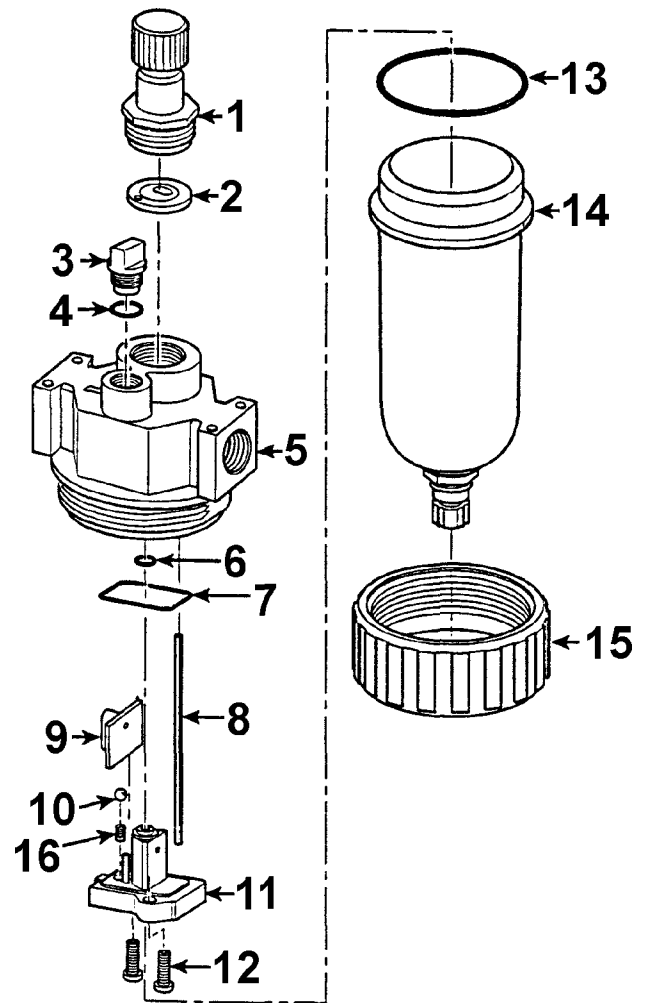
1.	72532021	QUICK DISCONNECT 1/4FPT	1
2.	72053018	NIPPLE-PIPE BLK 1/4NPT X 4	1
3.	72531812	REDUCER BUSHING 1/2-1/4NPT	2
4.	72531133	STREET ELBOW 1/2-1/4NPT	2
5.	72531421	ELBOW 1/2MPT #8MJIC 90°	1
6.	70048120	AIR PRESSURE GAUGE 200#	2
7.	72053497	ADAPTER 1/2MPT #8MJIC	1
8.	72531991	STREET TEE 1/2NPT	1
9.	73054192	BALL VALVE 1/2NPT	1
10.	72053725	ADAPTER 1/2MPT/HEX/1/2MPT	1
11.	70073439	MOISTURE SEP-REG-OILER ASM	1
12.	70141473	MTG BRKT-PAR30	2
13.	60120089	MTG BRKT-FLR 1/2	1
FOLLOWING ITEMS NOT SHOWN			
14.	72060002	CAP SCR 1/4-20X3/4 HHGR5	4
15.	72060004	CAP SCR 1/4-20X1 HHGR5	2
16.	72062104	NUT 1/4-20 HEX LOCK	6
17.	72063001	WASHER 1/4 WRT	12



LUBRICATOR (70073375)

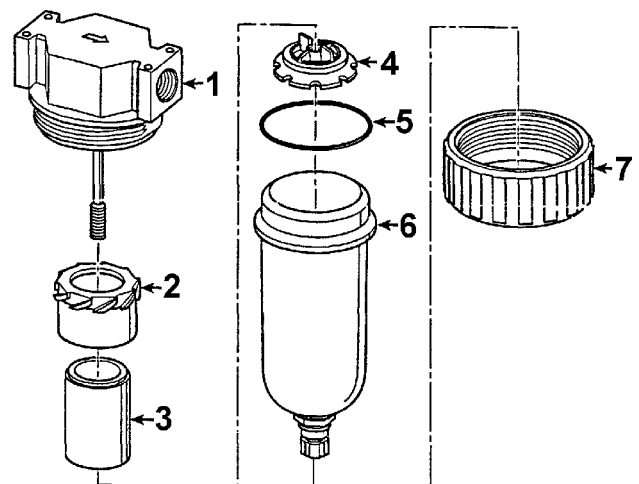
70034438 DRIP CTRL & FILL PLUG KIT-PS739P (INCL: 1-4)

1. DRIP CTRL 1REF
2. SEAL PLATE
3. FILL PLUG
4. O-RING
5. BODY
6. O-RING
7. SEAL
8. TUBE
9. FLAPPER
10. BALL
11. INSERT
12. SCREW
13. O-RING (BODY/BOWL)
14. BOWL ASM
15. COLLAR
16. SPRING

**FILTER (70145684)**

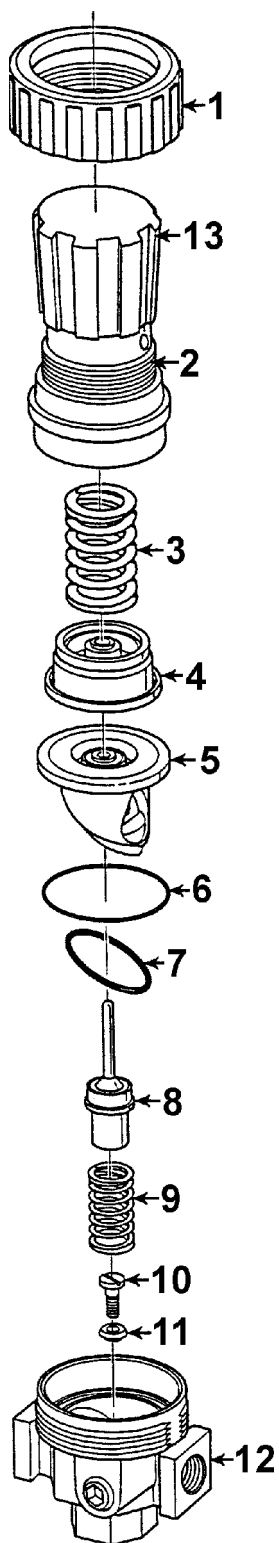
73052086 ELEMENT KIT-PS801P (INCL: 3&5)

1. BODY
2. DEFLECTOR
3. FILTER ELEMENT 40 MICRON
4. BAFFLE
5. SEAL (BODY/BOWL)
6. BOWL ASM
7. COLLAR



REGULATOR (70048101)

1. COLLAR
2. BONNET ASM
3. CTRL SPRING
4. DIAPHRAGM ASM
5. SEAL INSERT
6. O-RING (UPPER INSERT)
7. O-RING (LOWER INSERT)
8. POPPET ASM
9. POPPET RETURN SPRING
10. RETAINER
11. SEAL (LOWER BALANCING)
12. BODY
13. CTRL KNOB



TANK ASM-STEEL	3
TANK ASM-GALVANIZED (51716066)	4
LUBE SYS-HYD 120# HI-PRESSURE GREASE (51715616)	5
PUMP ASM-HYD LUBE/SALV-RMT MOUNT	6
PUMP ASMS-OIL & ANTIFREEZE	7
PUMP-OIL (73051492)	8
PUMP-SALVAGE (73051493)	9
PUMP-WATER/ANTI-FREEZE (73051630)	10
DISPLACEMENT PUMP PARTS	11
RECIPROCATOR PARTS (1 OF 2)	12
RECIPROCATOR PARTS (2 OF 2)	13

NOTES

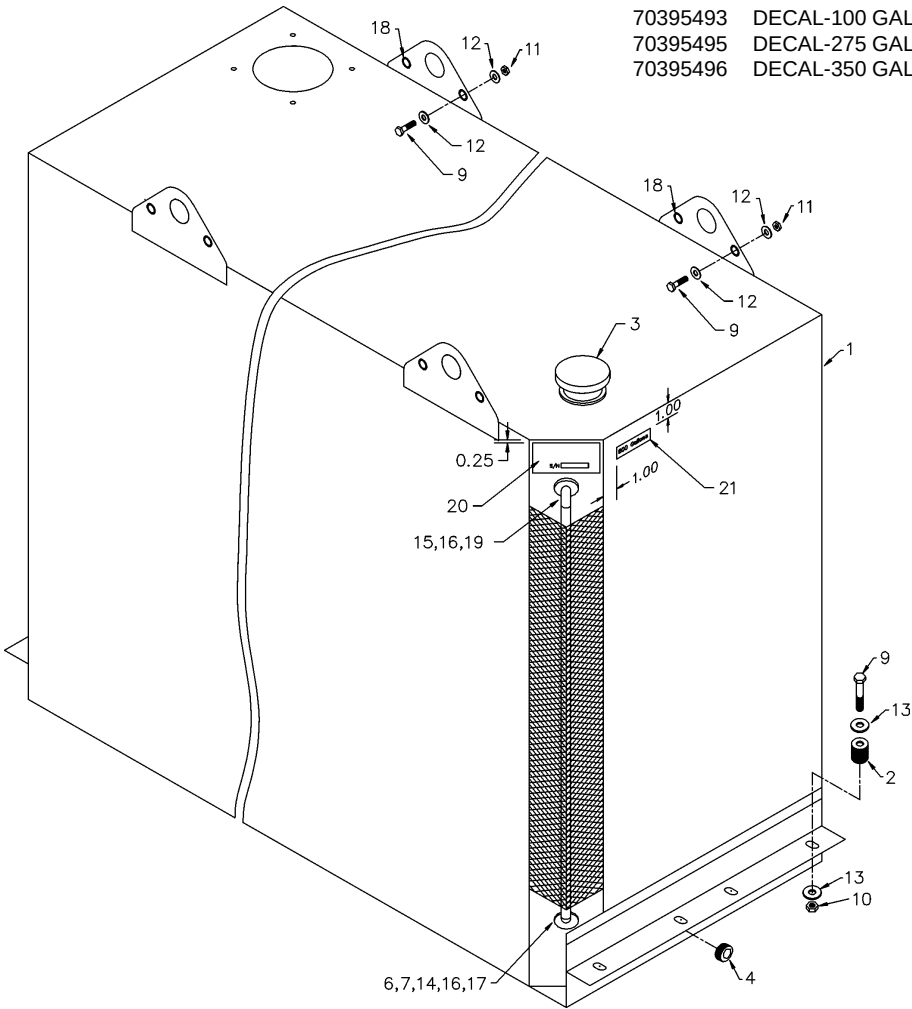
[illegible]

TANK ASM-STEEL

- A. 51716068 60 GALLON STEEL
- B. 51715756 100 GALLON STEEL
- C. 51715752 275 GALLON STEEL
- D. 51715752 350 GALLON STEEL

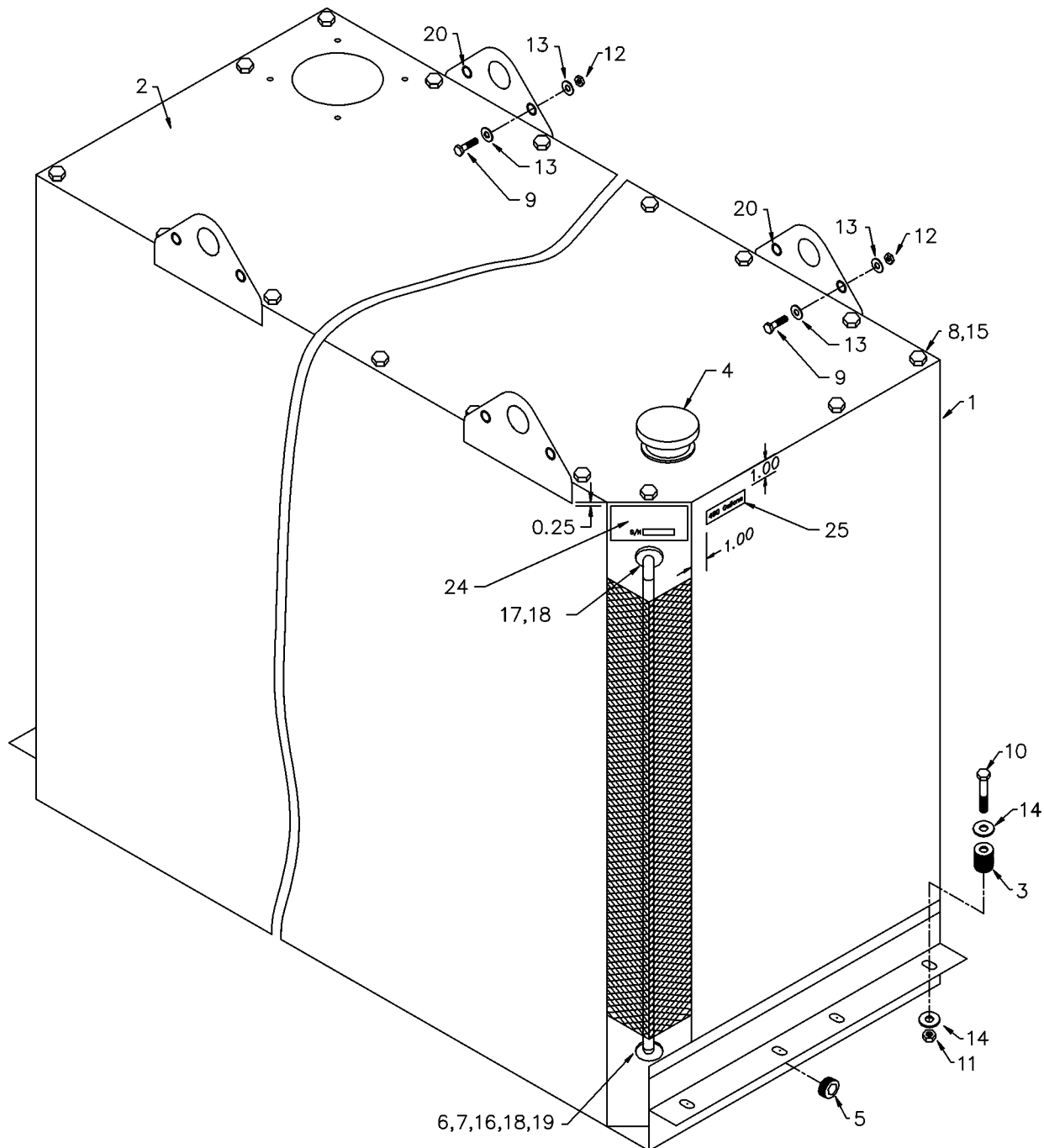
H	L	W
60x	9Lx	32
60x	13x	32
60x	36x	32
60x	45x	32

	A	B	C	D
1. 52716069 TANK-WELDMENT 60 GAL.	1			
52715757 TANK-WELDMENT 100 GAL.		1		
52715753 TANK-WELDMENT 275 GAL.			1	
52715751 TANK-WELDMENT 350 GAL.				1
2. 70144807 SPRING	4	4	4	4
3. 70732184 VENTED CAP 2"	1	1	1	1
4. 72053406 PIPE PLUG SH 1NPT	1	2	1	1
6. 72053537 ADAPTER 3/8MPT 1/4FPT SWVL	1	1	1	1
7. 72053590 STREET ELBOW 3/8 90°	2	2	2	2
8. 72060048 CAP SCR 3/8-16X1-1/2 HHGR5	2	2	2	2
9. 72060097 CAP SCR 1/2-13X3 HHGR5	4	4	4	8
10. 72062080 NUT 1/2-13 NYLOC	4	4	4	8
11. 72062103 NUT 3/8-16 NYLOC	2	2	2	2
12. 72063003 WASHER 3/8 WRT	4	4	4	4
13. 72063005 WASHER 1/2 WRT	8	8	8	16
14. 72531542 BARB NIPPLE 1/4MPT 1/2	1	1	1	1
15. 72531543 BARB NIPPLE 3/8MPT 1/2	1	1	1	1
16. 72066452 HOSE CLAMP SAE#4 SS	2	2	2	2
17. 73054108 SHUT-OFF VALVE 1/4M/FPT	1	1	1	1
18. 76393038 GROMMET 7/16	4	4	4	4
19. 89034073 PLASTIC TUBE	48"	48"	48"	48"
20. 70395479 SERIAL NUMBER PLACARD	1	1	1	1
21. 70395787 DECAL-60 GALLONS	1			
70395493 DECAL-100 GALLONS		1		
70395495 DECAL-275 GALLONS			1	
70395496 DECAL-350 GALLONS				1



TANK ASM-GALVANIZED (51716066)

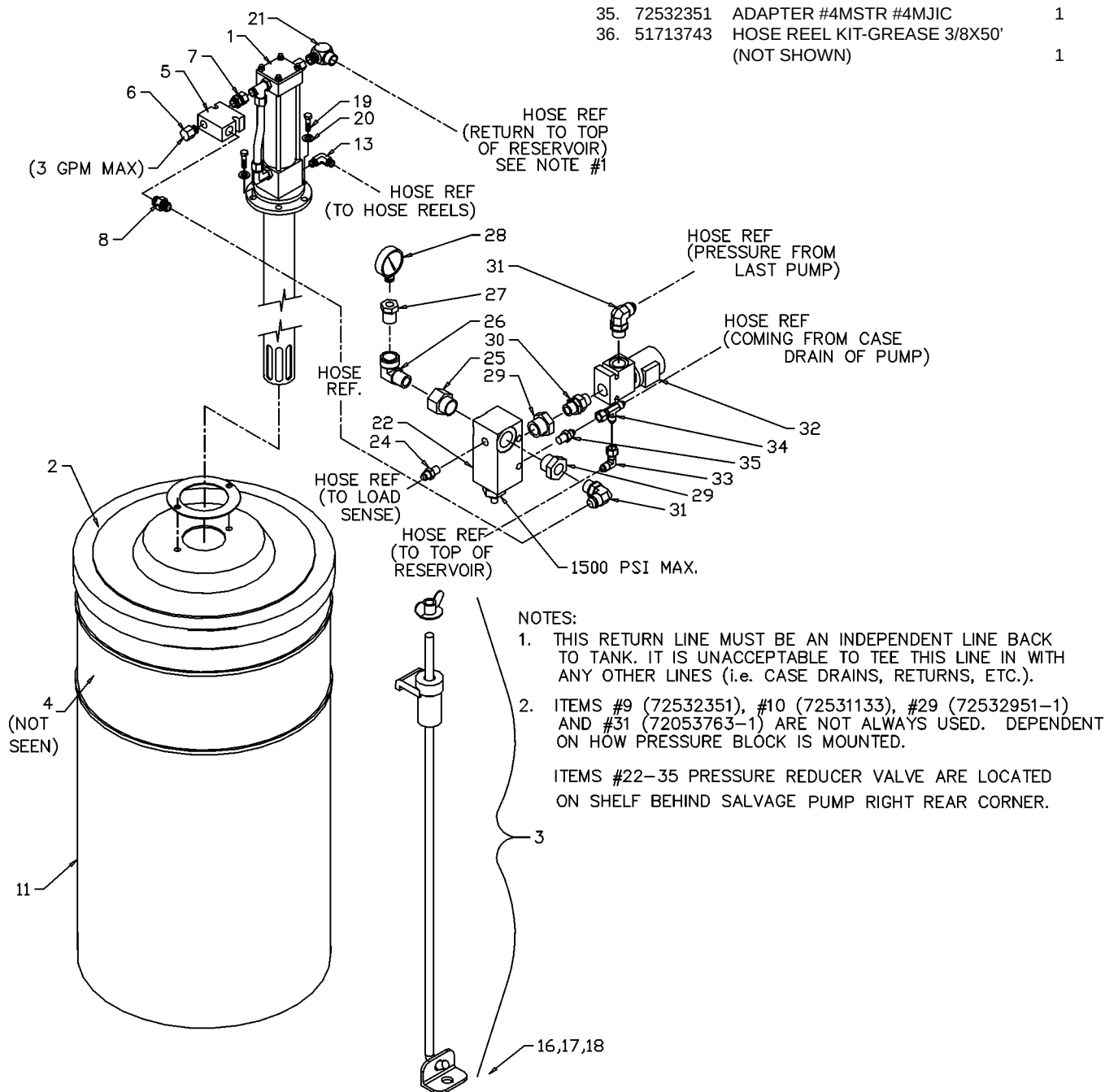
1.	52716067	TANK-WELDMENT 60 GAL.	1	12.	72062103	NUT 3/8-16 NYLOC	2
2.	52707919	TOP PLATE-50/60 GAL.	1	13.	72063003	WASHER 3/8 WRT	4
3.	70144807	SPRING	4	14.	72063005	WASHER 1/2 WRT	8
4.	70732184	VENTED CAP 2"	1	15.	72063050	WASHER 5/16 LOCK	9
5.	72053406	PIPE PLUG SH 1NPT	1	16.	72531542	BARB NIPPLE 1/4MPT 1/2	1
6.	72053537	ADAPTER 3/8MPTX1/4FPT SWVL	1	17.	72531543	BARB NIPPLE 3/8MPT 1/2	1
7.	72053590	STREET ELBOW 3/8 90°	2	18.	72066452	HOSE CLAMP SAE#4 SS	2
8.	72060025	CAP SCR 5/16-18X1 HHGR5	9	19.	73054108	SHUT-OFF VALVE 1/4M/FPT	1
9.	72060048	CAP SCR 3/8-16X1-1/2 HHGR5	2	20.	76393038	GROMET 7/16	4
10.	72060097	CAP SCR 1/2-13X3 HHGR5	4	21.	89034073	PLASTIC TUBE	48"
11.	72062080	NUT 1/2-13 NYLOC	4	23.	89391284	WEATHERSTRIP .19X.75	90"
				24.	70395479	SERIAL NUMBER PLACARD	1
				25.	70395787	DECAL-60 GALLONS	1



LUBE SYS-HYD 120# HI-PRESSURE GREASE (51715616)

1.	70732160	PUMP-GREASE 120#	1
2.	70143554	COVER	1
3.	70732109	INSTALLATION KIT	1
4.	70143812	FOLLOWER PLATE	1
5.	70143516	VALVE BODY	1
6.	73054578	VALVE-FLOW CTRL	1
7.	72533304	ADAPTER #8MO-RING #8F	1
8.	72532358	ADAPTER #8MSTR #8MJIC	1
9.	72532351	ADAPTER #4MSTR #4MJIC	1
10.	72531133	STREET ELBOW 1/2NPT 90°	1
11.	70143874	BARREL	1
13.	72531421	ELBOW 1/2MPT #8MJIC 90°	1
14.	72053497	ADAPTER 1/2MPT #8MJIC	1

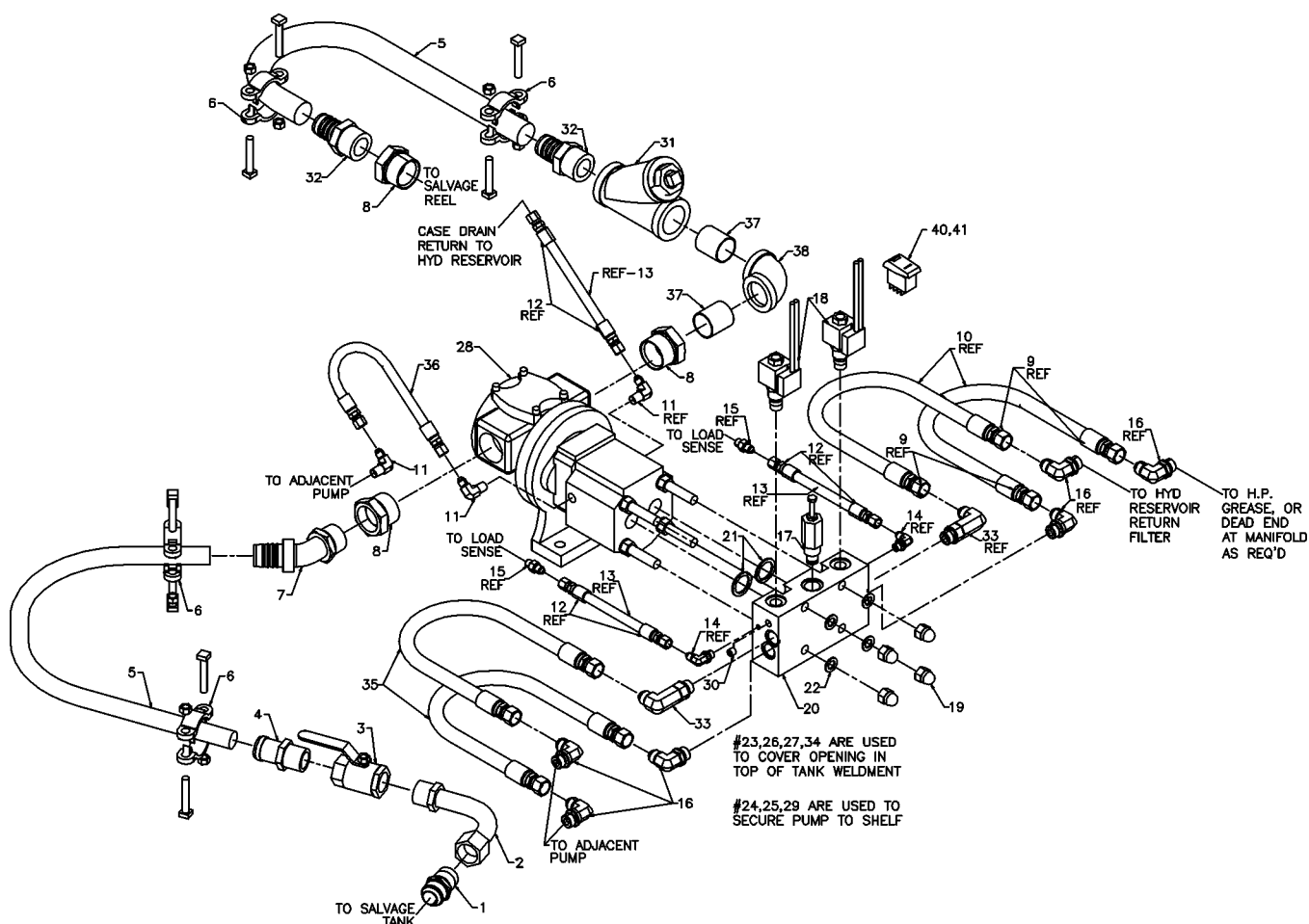
16.	72060094	CAP SCR 1/2-13X1-3/4 HHGR5	2
17.	72063005	WASHER 1/2 WRT	4
18.	72062080	NUT 1/2-13 LOCK	2
19.	72063049	WASHER 1/4 LOCK	2
20.	72060004	CAP SCR 1/4-20X1 HHGR5	2
21.	72531427	ELBOW 3/4MPT #12MJIC 90°	1
22.	60118612	PRESSURE REDUCER	1
24.	72053499	ADAPTER 1/4MPT #4MJIC	1
25.	72053746	ADAPTER #12MSTR 1/2FPT	1
26.	72531133	STREET ELBOW 1/2NPT 90°	1
27.	72531830	REDUCER BUSHING 1/2-1/4NPT	1
28.	73054435	PR GAUGE 5000PSI	1
29.	72532951	ADAPTER #12MSTR #8FSTR	2
30.	72532728	UNION #8MSTR #8MSTR	1
31.	72053763	ELBOW #8MSTR #8MJIC 90°	2
32.	73054576	SOLENOID VALVE	1
33.	72532690	ELBOW #4MJIC #4FJIC SWVL	1
34.	72532981	TEE #4JIC SWVLNUTRUN	1
35.	72532351	ADAPTER #4MSTR #4MJIC	1
36.	51713743	HOSE REEL KIT-GREASE 3/8X50' (NOT SHOWN)	1



PUMP ASM-HYD LUBE/SALV-RMT MOUNT

1.	72053680	ADAPTER 1MPT #16MJIC	1	22.	72063053	WASHER 1/2 LOCK Z	4
2.	70145281	TUBE ASM	1	23.	72060025	CAP SCR 5/16-18X1 HHGR5	5*
3.	73054378	BALL VALVE 1NPT	1	24.	72060094	CAP SCR 1/2-13X1-3/4 HHGR5	2*
4.	72532833	BEAD NIPPLE 1MPT 1-1/4HOSE	1	25.	72062080	NUT 1/2-13 HEX LOCK	2*
5.	89393401	HOSE 1-1/4" 100R4	15'	26.	60112239	COVER PLATE	1*
6.	72066516	HOSE CLAMP 1-1/4 2-BOLT	4	27.	76392598	WASHER 5/16 BONDED PLT	5*
7.	72531196	BARB NIPPLE 45° 1-1/4 1-1/4	1	28.	73051493	TRANSFER UNIT	1
8.	72053378	REDUCER BUSHING 1-1/2 1-1/4	3	29.	72063005	WASHER 1/2 WRT	4*
9.	72532975	HOSE FTG #8 1/2	REF	30.	72053402	PIPE PLUG 1/4NPT SH	2
10.	89394043	HOSE 1/2 100R2	REF	31.	70142716	STRAINER 1-1/4NPT	1
11.	72531412	ELBOW 1/4MPT #4MJIC 90°	2	32.	72531550	BARB NIPPLE 1-1/4MPT 1-1/4	2
12.	72533258	HOSE FTG #4 1/4	REF	33.	72532666	ELBOW #8MSTR #8MJIC XLG	1
13.	89394041	HOSE 1/4 100R2	REF	34.	76392369	GASKET	1*
14.	72053758	ELBOW #4MSTR #4MJIC 90°	REF	35.	51704311	HOSE ASM 1/2X24 FF	2
15.	72532351	ADAPTER #4MSTR #4MJIC	REF	36.	51703591	HOSE ASM 1/4X20 FF	1
16.	72053763	ELBOW #8MSTR #8MJIC 90°	3	37.	72053211	NIPPLE-PIPE BLK 1-1/4XCLOSE	2
17.	73054910	CARTRIDGE-FLOW	1	38.	72053327	ELBOW BLK 1-1/4 90°	1
18.	73054575	SOLENOID VALVE	2	39.	70394624	DECAL-CAUTION Y-STRAINER	1*
19.	72062134	NUT 1/2-13 ACORN HIGH ZINC	4	40.	77041550	SWITCH-ROCKER BODY ON-OFF-ON	1
20.	5V022870	PUMP MANIFOLD	1	41.	77041551	SWITCH-ROCKER 2RED ACTUATOR	1
21.	7Q072217	O-RING	2				

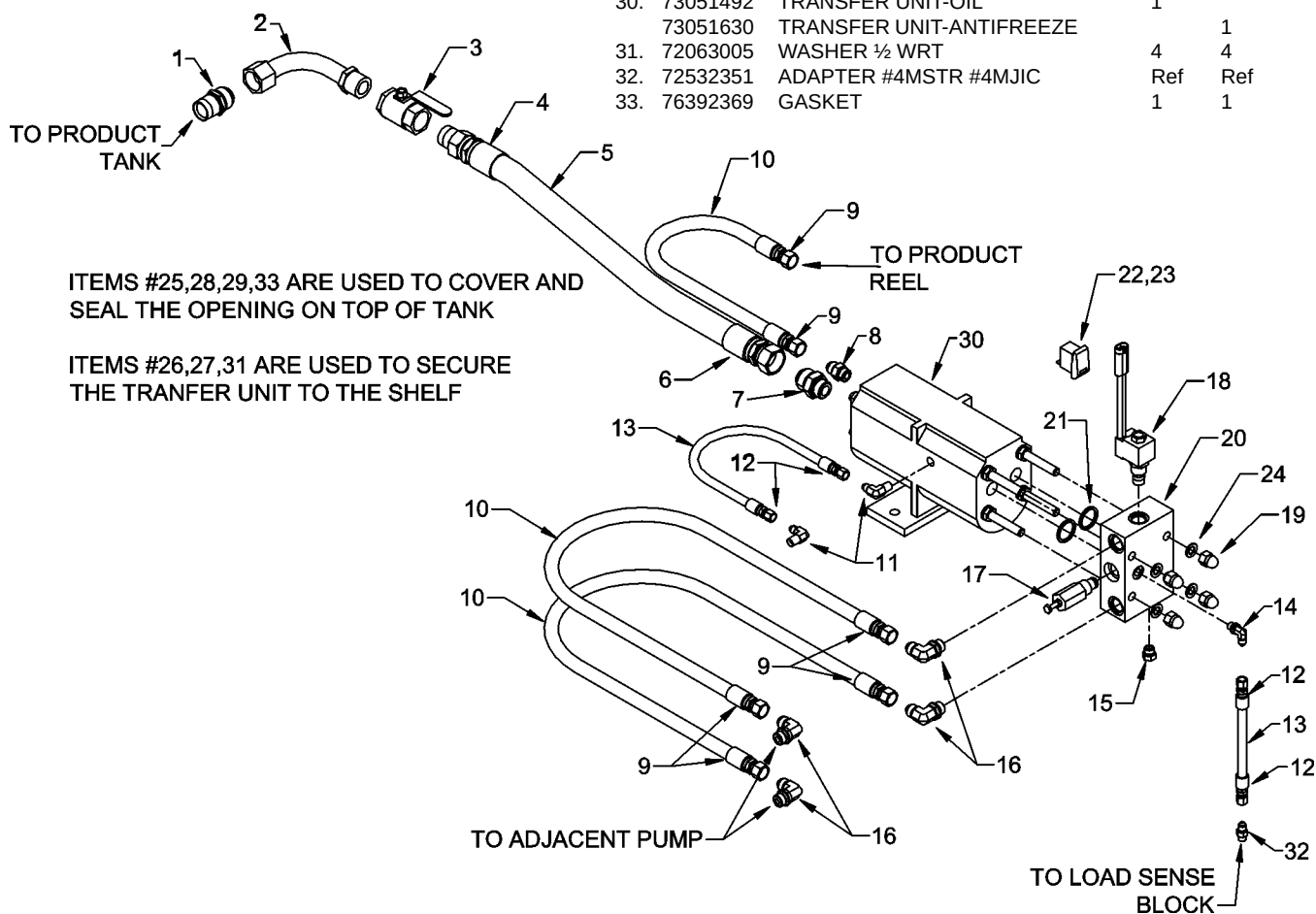
* NOT SHOWN



PUMP ASMS-OIL & ANTIFREEZE

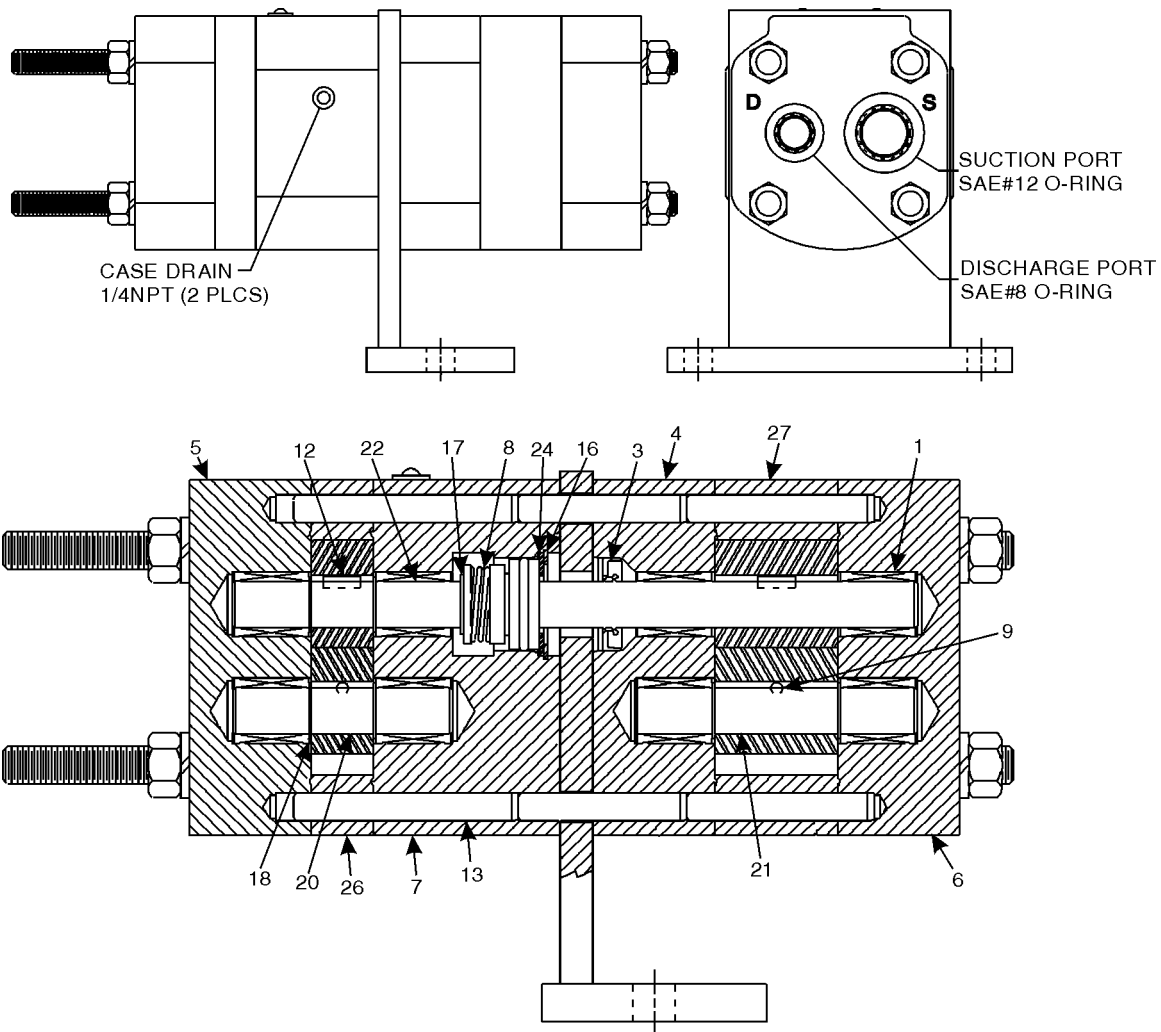
A. 51711753 PUMP ASM-OIL
B. 51711758 PUMP ASM-ANTIFREEZE

		A	B
1.	72053680 ADAPTER 1MPT #16MJIC	1	1
2.	70145281 TUBE ASM	1	1
3.	73054378 BALL VALVE 1NPT	1	1
4.	72533483 HOSE FITTING-TYPE C 1"-1"	Ref	Ref
5.	89393811 HOSE 1"	Ref	Ref
6.	72533386 HOSE FITTING-TYPE F #16-1"	Ref	Ref
7.	72532369 ADAPTER #12MSTR #16MJIC	1	1
8.	72532358 ADAPTER #8MSTR #8MJIC	1	1
9.	72532975 HOSE FITTING-TYPE F #8-1/2"	Ref	Ref
10.	89394043 HOSE 1/2"	Ref	Ref
11.	72531412 ELBOW 1/4MPT #4MJIC 90°	2	2
12.	72533258 HOSE FITTING-TYPE F #4-1/4"	Ref	Ref
13.	89394041 HOSE 1/4"	Ref	Ref
14.	72053758 ELBOW #4MSTR #4MJIC 90°	Ref	Ref
15.	72532140 PLUG	1	1
16.	72053763 ELBOW #8MSTR #8MJIC 90°	4	4
17.	73054910 FLOW CONTROL VALVE	1	1
18.	73054574 SOLENOID VALVE	1	1
19.	72062134 NUT 1/2-13 ACORN	4	4
20.	5V021870 MANIFOLD	1	1
21.	7Q072217 O RING	1	1
22.	77041500 SWITCH-ROCKER BODY	1	1
23.	77041499 SWITCH-ROCKER RED ACTUATOR	1	1
24.	72063053 WASHER 1/2 LOCK	4	4
25.	72060025 CAP SCR 5/16-18X1 HHGR5	5	5
26.	72060094 CAP SCR 1/2-13X1-3/4 HHGR5	2	2
27.	72062080 NUT 1/2-13 NYLOC	2	2
28.	60112239 PLATE-COVER	1	1
29.	76392598 WASHER 5/16 BONDED	5	5
30.	73051492 TRANSFER UNIT-OIL	1	
	73051630 TRANSFER UNIT-ANTIFREEZE		1
31.	72063005 WASHER 1/2 WRT	4	4
32.	72532351 ADAPTER #4MSTR #4MJIC	Ref	Ref
33.	76392369 GASKET	1	1



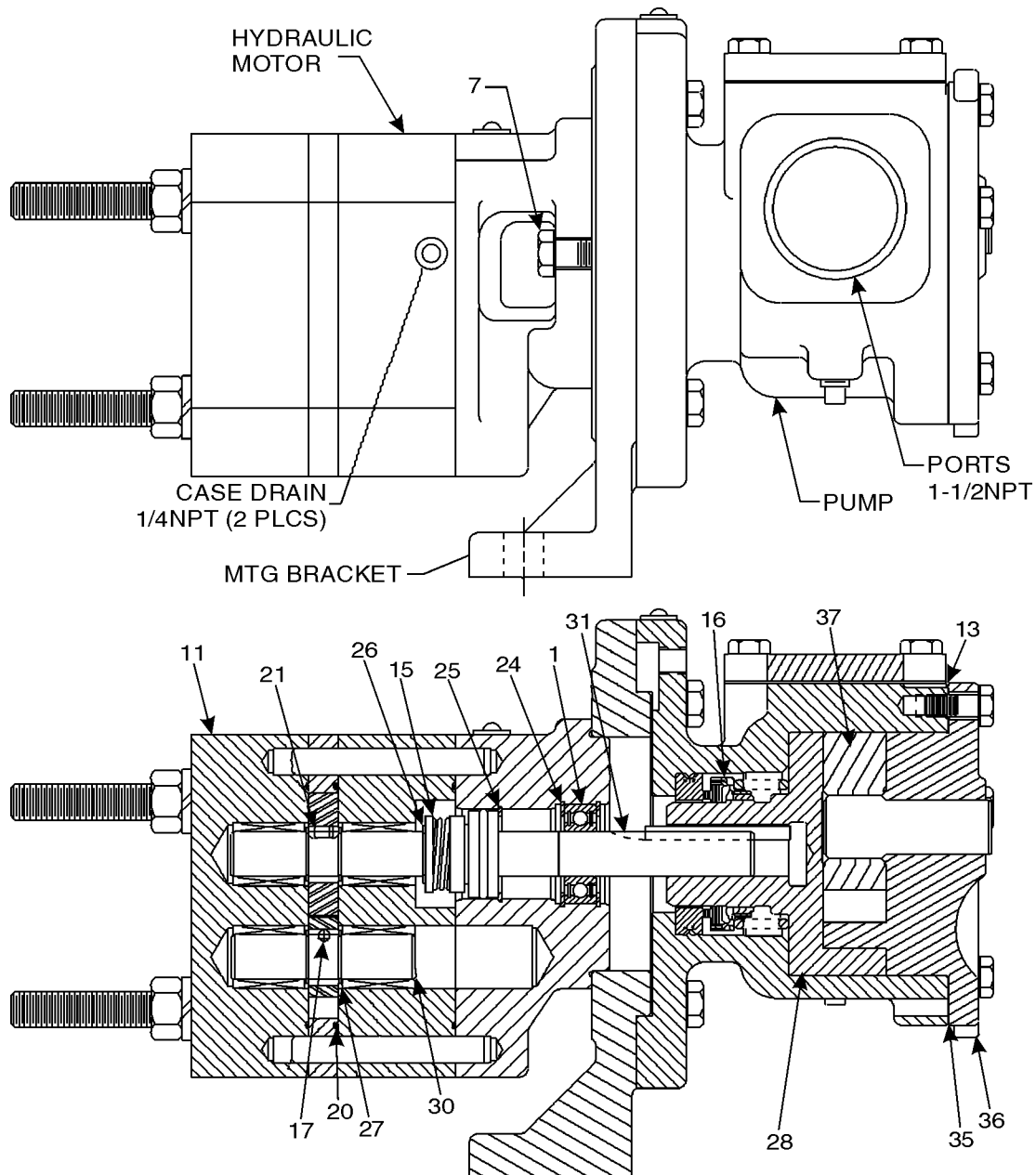
PUMP-OIL (73051492)

1.	70055208	NEEDLE BEARING 1"	8	16.	70145519	RETAINING RING-INTERNAL	1*
3.	76393477	LIP SEAL	1*	17.	70145024	RETAINING RING-EXTERNAL	1*
4.	70145647	SEPARATION PLATE	1	18.	70143809	RETAINING RING-EXTERNAL	6*
5.	70143775	SEPARATION PLATE	1	20.	70580035	DRIVEN SHAFT	1
6.	70145648	SEPARATION PLATE	1	21.	70580140	DRIVEN SHAFT	1
7.	70145865	SEPARATION PLATE	1	22.	70580044	DRIVEN SHAFT	1
8.	76393242	MECHANICAL SEAL	1*	24.	72063218	PACKING RETAINING WASHER	1*
9.	72661464	BALL .156 DIA	2	26.	70580036	CASING & GEARS ASM	1
12.	72661503	DOWEL PIN .156 DIA X .50	2	27.	70056535	CASING & GEARS ASM	1
13.	72661463	DOWEL PIN .38 DIA X 3.00	2		70146317	SEAL KIT-PUMP/MTR	
							(INCL:3,8,16-18,24 DENOTED W/ *)



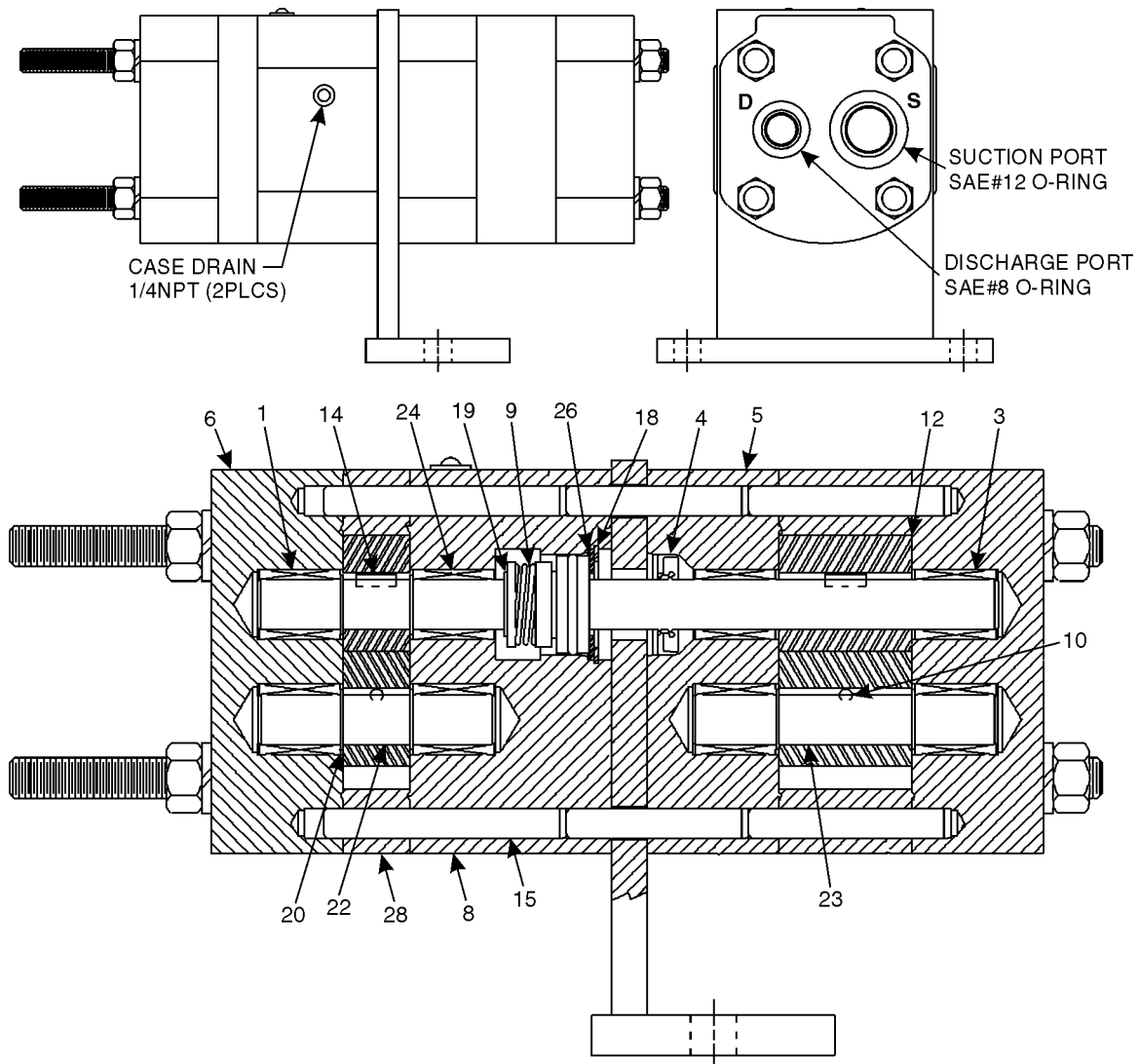
PUMP-SALVAGE (73051493)

1.	70146242	BALL BEARING	1	26.	70145024	RETAINING RING-EXTERNAL	1**
2.	70055208	NEEDLE BEARING 1"	4	27.	70143809	RETAINING RING-EXTERNAL	4**
11.	70143776	SEPARATION PLATE	1	28.	77041452	ROTOR	1
13.	76394697	GASKET	1*	30.	70146119	DRIVEN SHAFT	1
15.	76393242	MECHANICAL SEAL	1**	31.	70146120	DRIVEN SHAFT	1
16.	94394475	MECHANICAL SEAL KIT	1*	35.	94394595	GASKET SET	1*
17.	72661464	BALL .156 DIA	1	36.	70733155	HEAD & PIN	1
20.	76393478	O-RING	3	37.	70145431	IDLER & BUSHING	1
21.	72661489	DOWEL PIN .156 DIA X .25	1		70146318	SEAL KIT-PUMP (INCL:13,16,35 DENOTED W/ *)	
24.	72661493	RETAINING RING-INTERNAL	2		70146317	SEAL KIT-MOTOR (INCL:15,26,27 DENOTED W/**)	
25.	72661492	RETAINING RING-INTERNAL	1				



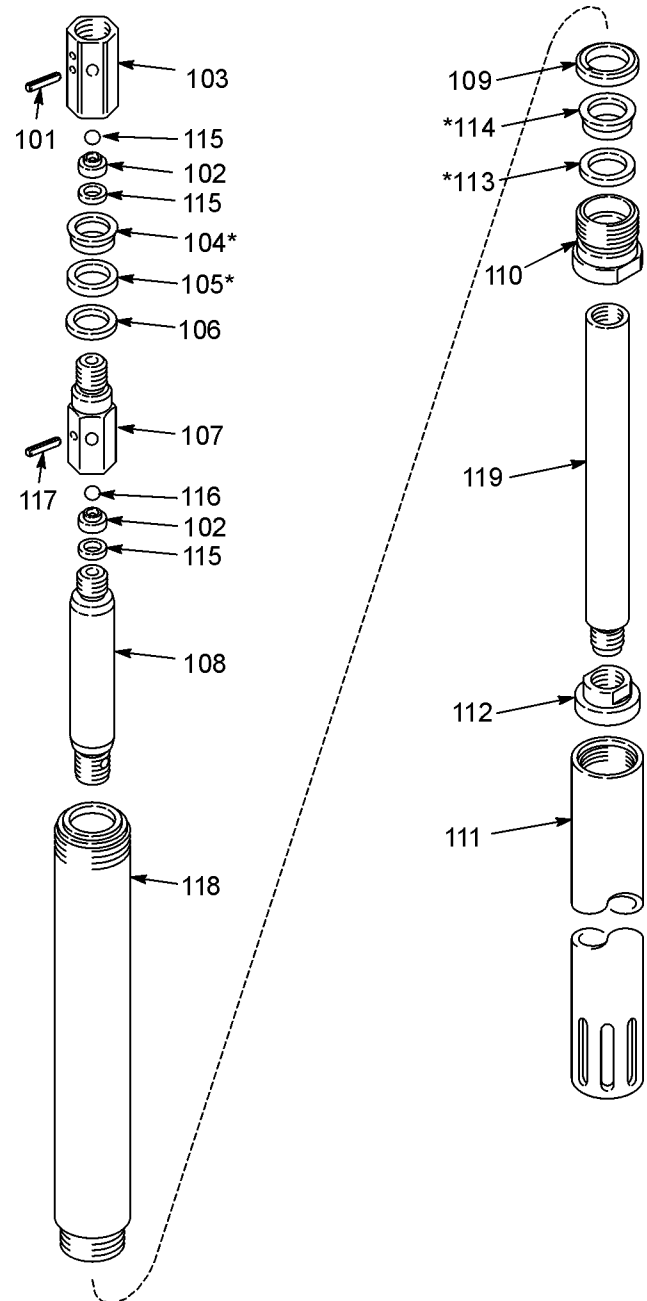
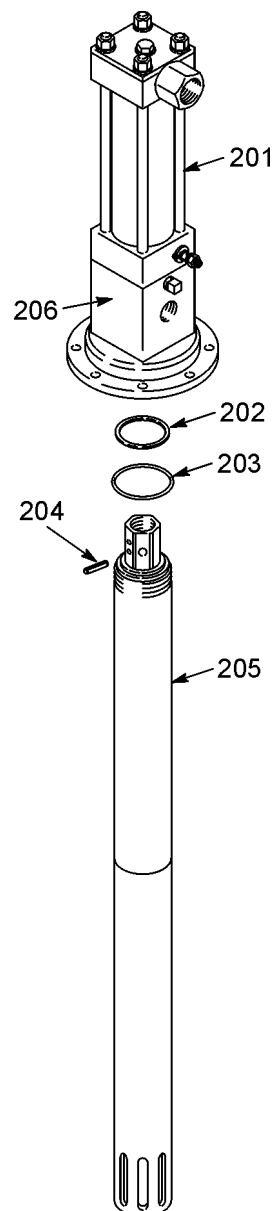
PUMP-WATER/ANTI-FREEZE (73051630)

1.	70055208	NEEDLE BEARING 1"	4	15.	72661463	DOWEL PIN .38 DIA X 3	2
3.	70055277	BUSHING	4	18.	72661493	RETAINING RING-INTERNAL	1*
4.	76393477	LIP SEAL	1*	19.	70145024	RETAINING RING-EXTERNAL	1*
5.	70145647	SEPARATION PLATE	1	20.	70143809	RETAINING RING-EXTERNAL	6*
6.	70143775	SEPARATION PLATE	1	22.	70580035	DRIVEN SHAFT	1
8.	70145865	SEPARATION PLATE 2.50"	1	23.	70580140	DRIVEN SHAFT	1
9.	76393242	MECHANICAL SEAL	1*	24.	70580044	DRIVEN SHAFT	1
10.	72661464	BALL .156 DIA	2	26.	72063218	PACKING RETAINING WASHER	1*
12.	76393478	O-RING	4	28.	70580036	CASING & GEARS ASM	1
14.	72661503	DOWEL PIN .156 DIA X .50	2		70146317	SEAL KIT-PUMP/MOTOR (INCL:4,9,18-20,26 DENOTED W/*)	



DISPLACEMENT PUMP PARTS

94394299	REPAIR KIT (INCLUDES ITEMS DENOTED BY *)	REF
101.	PIN	1
102.	70143508 SEAT-VALVE	2
103.	COUPLING	1
104.	PACKING	1*
105.	SEAL	1*
106.	SPACER	1
107.	PISTON	1
108.	TUBE	1
109.	70055282 BEARING-PRIMING	1
110.	70145491 HOUSING-PACKING	1
111.	CYLINDER	1
112.	PISTON	1
113.	SEAL	1*
114.	PACKING	1*
115.	GASKET	2
116.	70142053 BALL	2
117.	PIN	1
118.	CYLINDER-PUMP	1
119.	ROD-PISTON	1

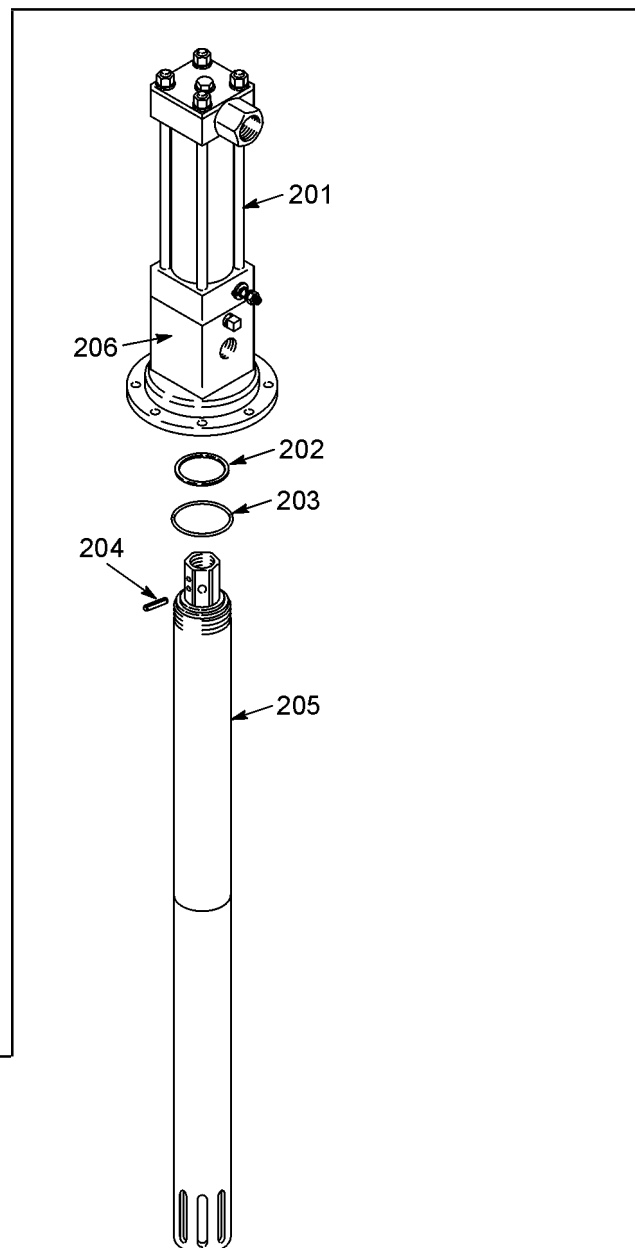
**PUMP PARTS**

201.	RECIPROCATOR	1
202.	GASKET-COPPER	1*
203.	O-RING	1*
204.	PIN	1
205.	DISPLACEMENT PUMP	1
206.	LABEL	1

RECIPROCATOR PARTS (1 OF 2)

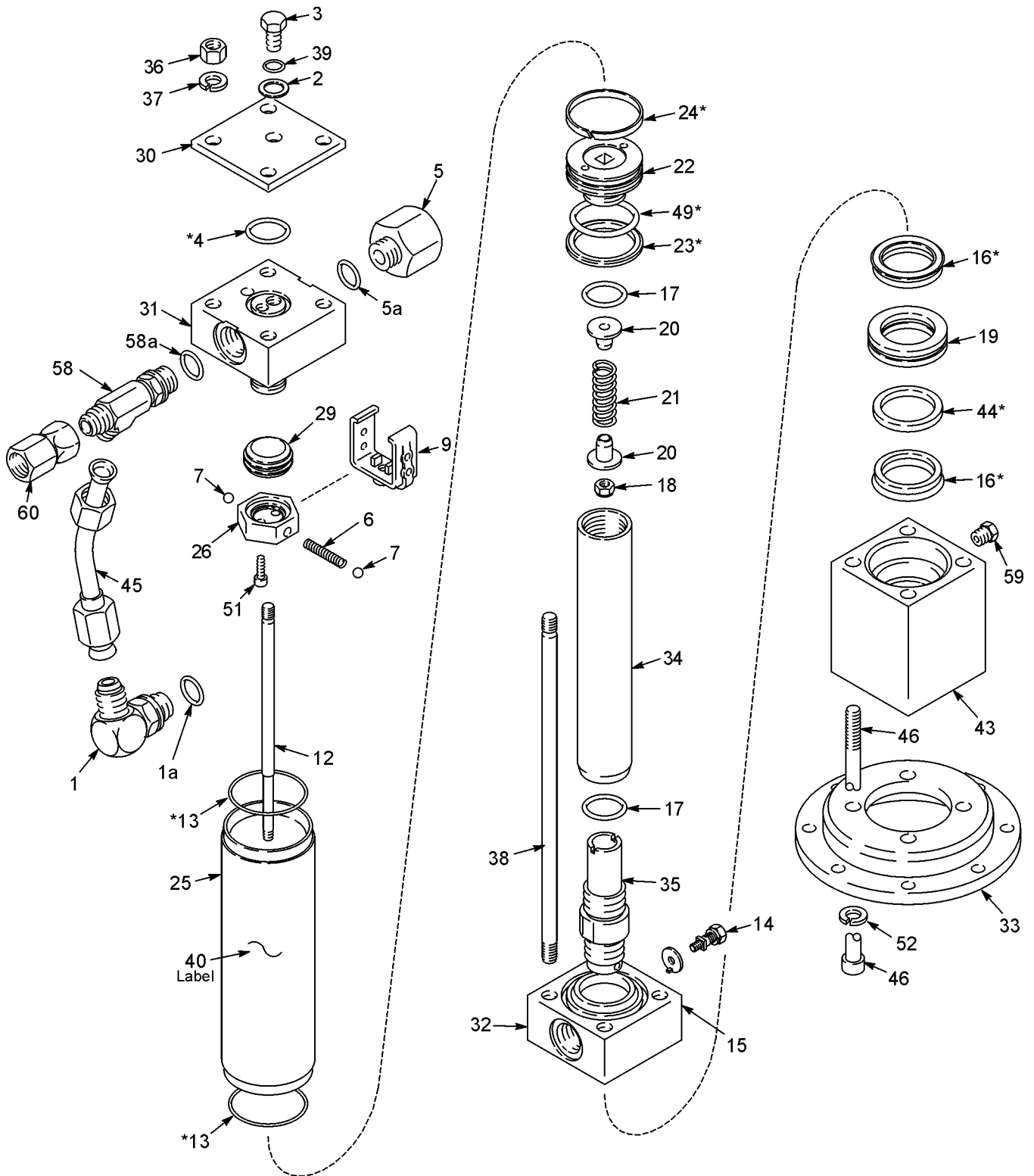
94394317	REPAIR KIT (INCLUDES ITEMS DENOTED BY *)	REF
1.	ELBOW	1
1A.	O-RING (INCL: 1A)	1
2.	WASHER	1
3.	CAP SCREW	1
4.	O-RING	1
5.	ADAPTER (INCL: 5A)	1
5A.	O-RING	1
6. 70145686	SPRING	1
7. 70733253	BALL	2
9.	YOKE	1
12.	ROD	1
13.	O-RING	2*
14. 77044701	LUG	1
15.	WASHER	1
16.	PACKING-V BLOCK	2*
17.	O-RING	2
18.	LOCKNUT	1
19.	GUIDE	1
20.	RETAINER	2
21.	SPRING	1
22.	PISTON	1
23.	SEAL-PISTON	1*
24.	BEARING-PISTON	1*
25.	CYLINDER-MOTOR	1
26.	STOP	1
29.	SLEEVE	1
30.	PLATE	1
31.	SPOOL	1
32.	CAP	1
33.	BASE	1
34.	ROD	1
35.	CONNECTING ROD	1
36.	NUT	4
37.	LOCKWASHER	4
38.	ROD-TIE	4
39.	O-RING	1
40.	LABEL-WARNING	1
43.	ADAPTER-PUMP	1
44.	SEAL	1*
45.	TUBE-INLT	1
46.	CAP SCREW	4
49.	O-RING	1*
51.	CAP SCREW	2
52.	LOCKWASHER	4
58.	TEE (INCL: 58A)	1
58A.	O-RING	1
59.	PLUG	1
60.	UNION	1
	ASSEMBLY TOOL-RECIPROCATOR	REF

SEE DRAWING ON FOLLOWING PAGE

**PUMP PARTS**

201.	RECIPROCATOR	1
202.	GASKET-COPPER	1*
203.	O-RING	1*
204.	PIN	1
205.	DISPLACEMENT PUMP	1
206.	LABEL	1

RECIPROCATOR PARTS (2 OF 2)

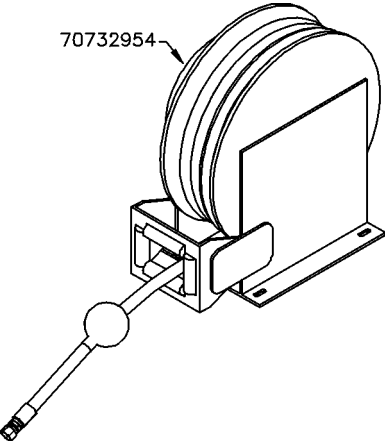


HOSE REEL ASM-AIR	3
HOSE REEL ASM-GREASE	3
HOSE REEL ASM-ANTI-FREEZE SALVAGE	3
HOSE REEL ASM-SALVAGE	3
HOSE REEL ASM-OIL & ANTI-FREEZE	3
HOSE REEL-GREASE/WASH (70733061)	4
HOSE REEL-AF/SALVAGE (70732174)	5
HOSE REEL-AF/OIL AF/SALVAGE 1/2" (70732362)	6
SEAL KIT (70146314)	7
HOSE REEL-AIR (70732954)	7
SWIVEL SEAL KIT (70146307)	8
SWIVEL SEAL KIT (70146315)	8
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HOSE INSTALLATION (HANNAY HOSE REEL)	9
HOSE END ATTACHMENTS	10
HOSE REEL KIT - GREASE - 3/8 x 50' (51713743)	13
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HOSE REEL KIT- FUEL 1.00 x50' (51711924)	15
SPRING RETRACTABLE REEL- FUEL (70732533)	15
HOSE REEL KIT - SALVAGE 1.00 X 35' (51713740)	15
HOSE REEL KIT - SALVAGE 1.25x35' (51711922)	16
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HOSE REEL 1 1/2" (70073607)	17
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NOTES

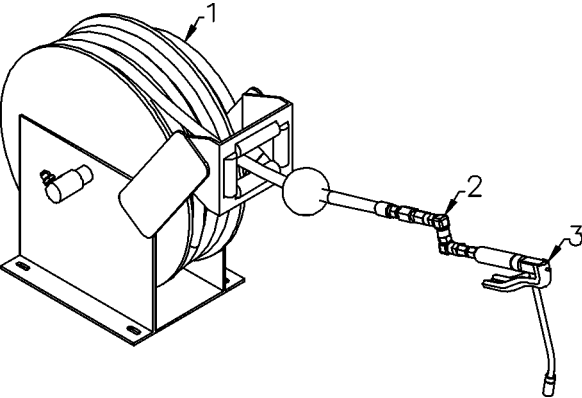
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HOSE REEL ASM-AIR



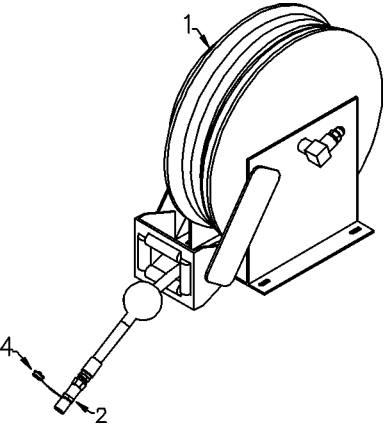
HOSE REEL ASM-GREASE

- | | | | |
|----|----------|---------------|---|
| 1. | 70733061 | REEL | 1 |
| 2. | 70732888 | GREASE SWIVEL | 1 |
| 3. | 73054873 | GREASE NOZZLE | 1 |



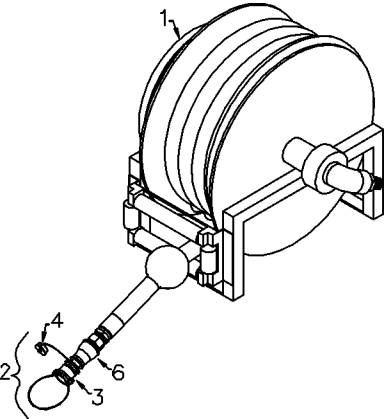
HOSE REEL ASM-ANTI-FREEZE SALVAGE

- | | | | |
|----|----------|------------------------------|---|
| 1. | 70732362 | REEL | 1 |
| 2. | 72532426 | FAST FILL SOCKET | 1 |
| 3. | 72532429 | FAST FILL NIPPLE (NOT SHOWN) | 1 |
| 4. | 72532431 | FAST FILL PLUG | 1 |
| 5. | 72532418 | FAST FILL CAP (NOT SHOWN) | 1 |



HOSE REEL ASM-SALVAGE

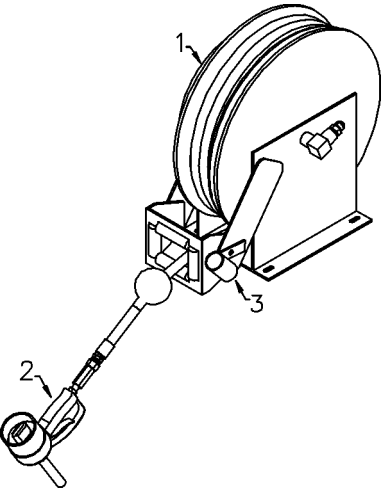
- | | | | |
|----|----------|--------------------------------|---|
| 1. | 70732996 | REEL | 1 |
| 2. | 72532422 | FAST FILL SOCKET | 1 |
| 3. | 72532421 | FAST FILL NOZZLE (Part of 2) | 1 |
| 4. | 72532423 | FAST FILL CAP (Part of 2) | 1 |
| 5. | 72532408 | FAST FILL RECIEVER (Not Shown) | 1 |
| 6. | 72053489 | COUPLING 1.25-.75 | 1 |



HOSE REEL ASM-OIL & ANTI-FREEZE

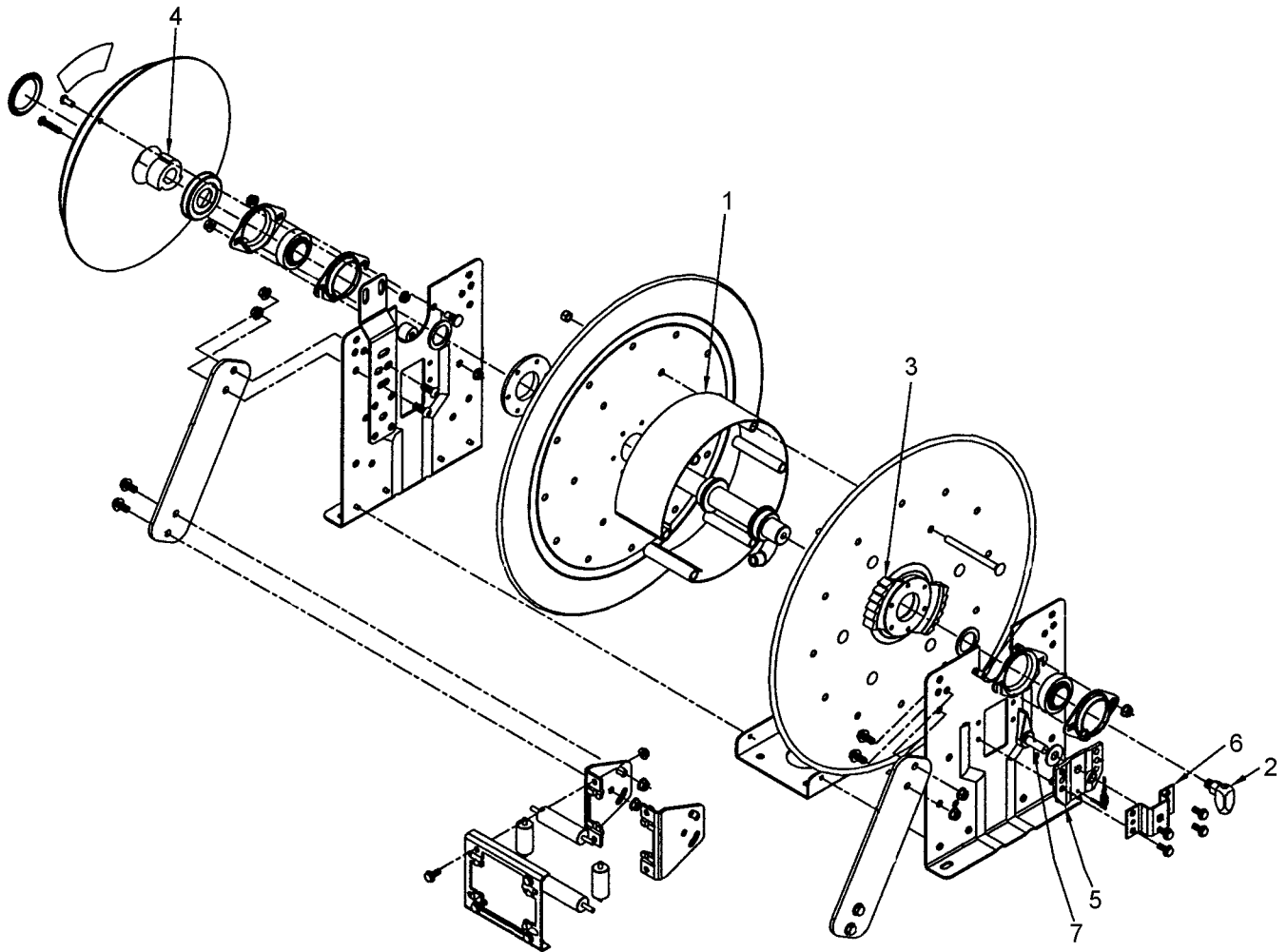
- A. OIL HOSE REEL ASM
B. ANTIFREEZE HOSE REEL ASM

- | | <u>A</u> | <u>B</u> | | |
|----|----------|----------------|---|---|
| 1. | 70732362 | HOSE REEL | 1 | 1 |
| 2. | 70073426 | METERED NOZZLE | 1 | |
| | 70731292 | METERED NOZZLE | | 1 |
| 3. | 52714244 | NOZZLE HOLDER | 1 | 1 |



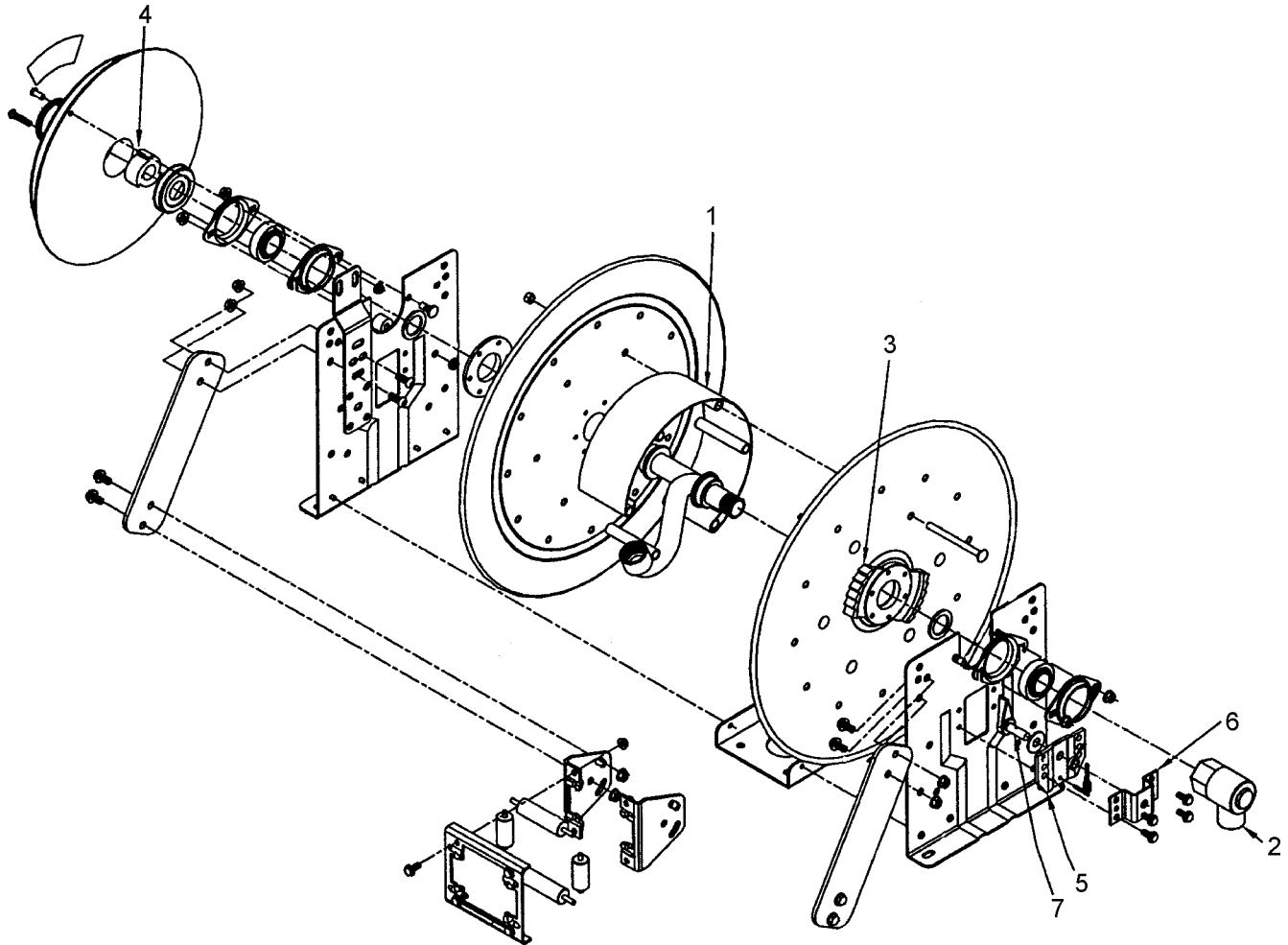
HOSE REEL-GREASE/WASH (70733061)

1.	70146306	DRUM 10-1/2" DIA	1
	70146307	DRUM 15-1/2" DIA	1
2.	70146418	SWVL JOINT 8000PSI 90	1
	70146307	SEAL KIT	REF
3.	70145660	RATCHET WHEEL	1
4.	70146309	SPRING ARBOR	1
5.	70146310	RATCHET PAWL HSG-INNER	1
6.	70146311	RATCHET PAWL HSG-OUTER	1
7.	70146312	PAWL & PIN	1
	73051731	SPRING MOTOR-J	1



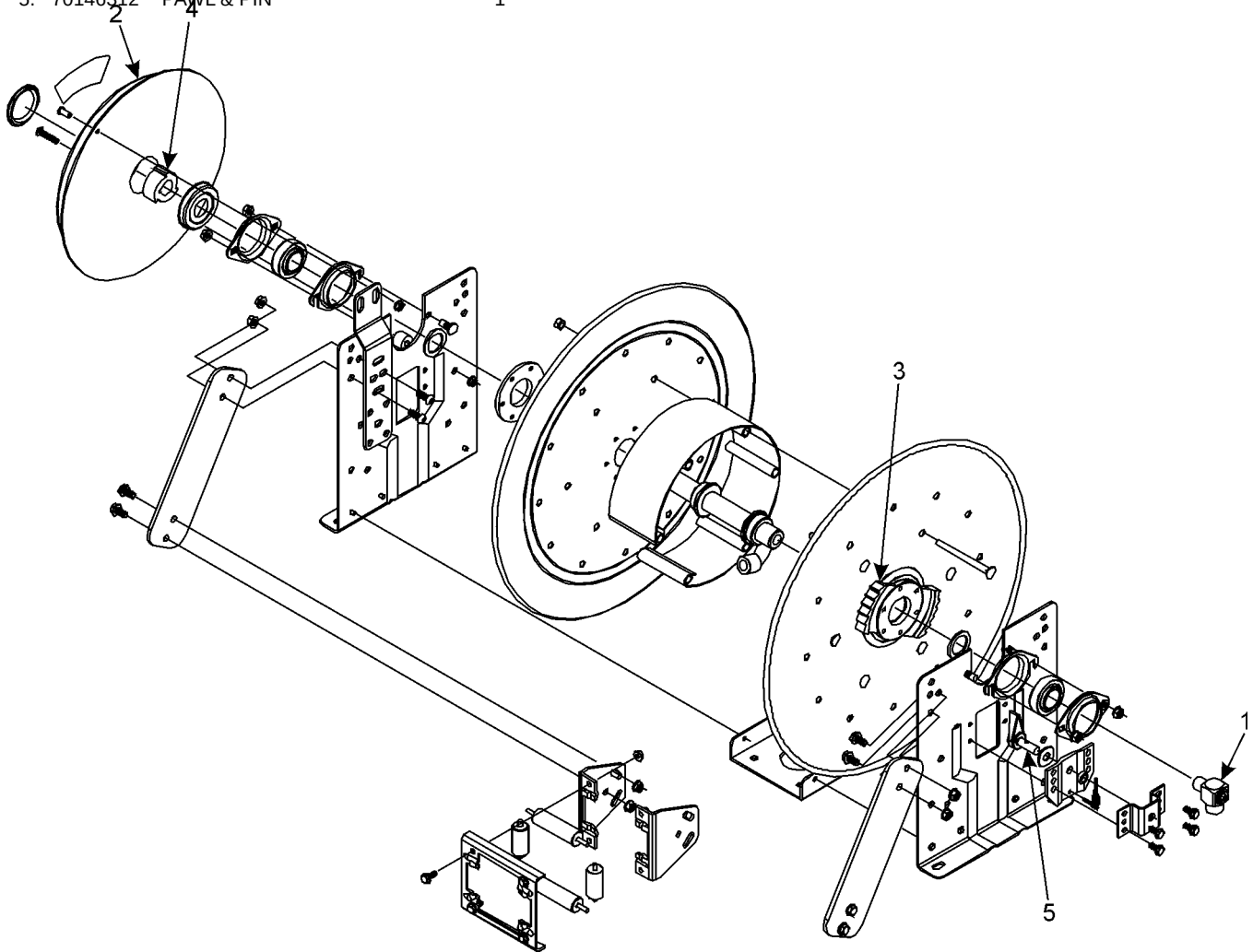
HOSE REEL-AF/SALVAGE (70732174)

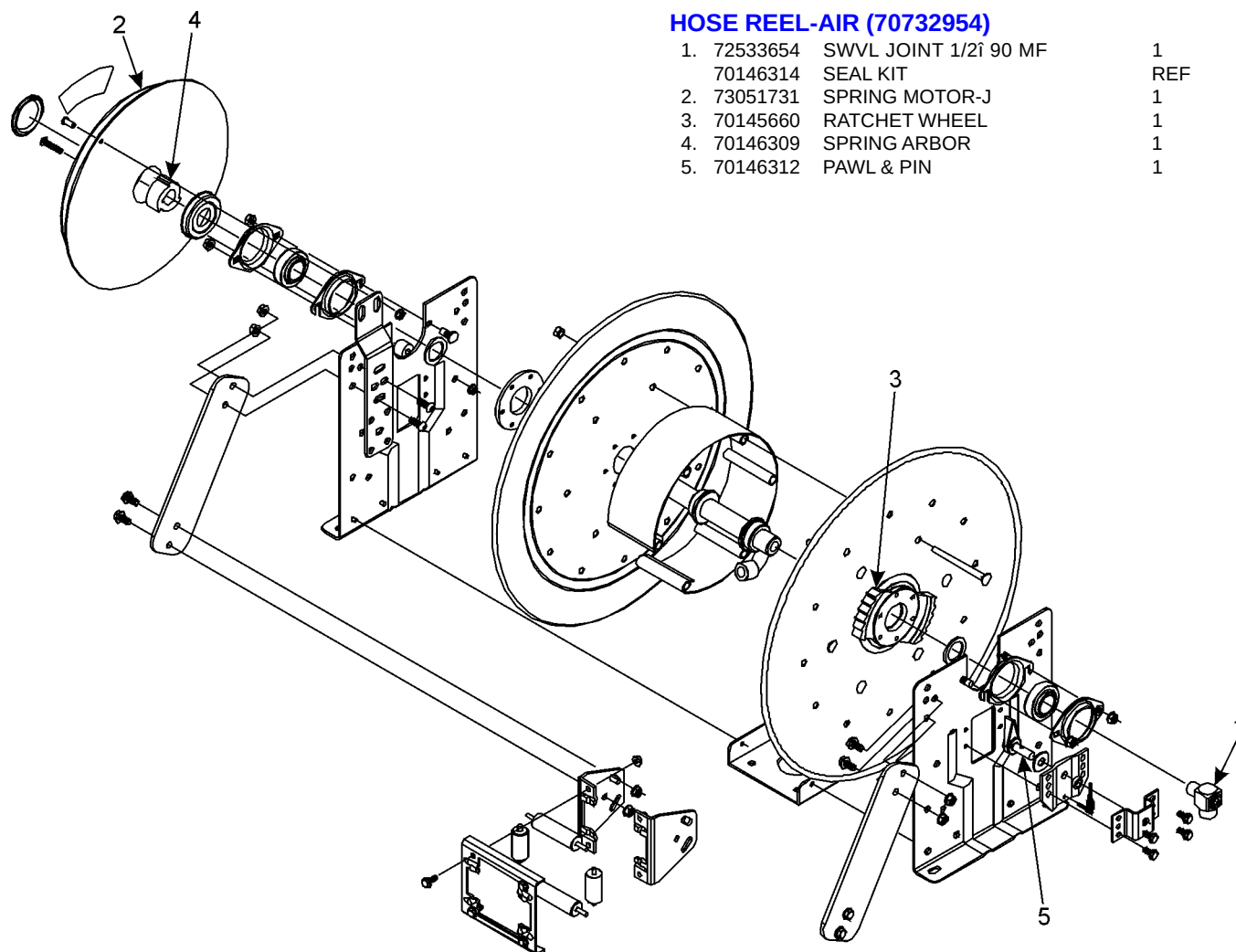
1.	70146306	DRUM 10-1/2" DIA	1
2.	70732529	SWVL JOINT 1" 90° FF	1
	70146315	SEAL KIT	REF
3.	70145660	RATCHET WHEEL	1
4.	70146309	SPRING ARBOR	1
5.	70146310	RATCHET PAWL HSG-INNER	1
6.	70146311	RATCHET PAWL HSG-OUTER	1
7.	70146312	PAWL & PIN	1



HOSE REEL-AF/OIL AF/SALVAGE 1/2"
(70732362)

- | | | | |
|----|----------|-----------------------|-----|
| 1. | 72533654 | SWVL JOINT 1/2" 90 MF | 1 |
| | 70146313 | SEAL KIT | REF |
| 2. | 73051731 | SPRING MOTOR-J | 1 |
| 3. | 70145660 | RATCHET WHEEL | 1 |
| 4. | 70146309 | SPRING ARBOR | 1 |
| 5. | 70146312 | PAWL & PIN | 1 |

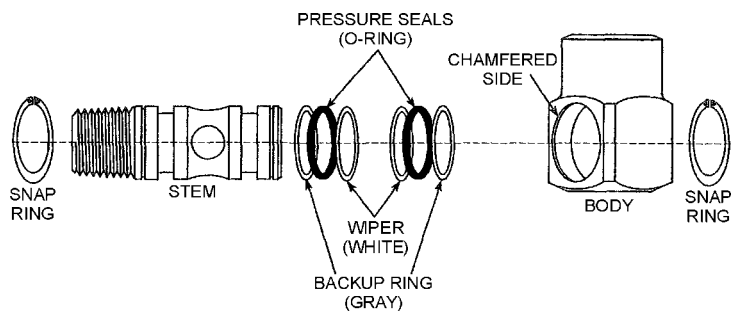


**HOSE REEL-AIR (70732954)**

1.	72533654	SWVL JOINT 1/2" 90 MF	1
	70146314	SEAL KIT	REF
2.	73051731	SPRING MOTOR-J	1
3.	70145660	RATCHET WHEEL	1
4.	70146309	SPRING ARBOR	1
5.	70146312	PAWL & PIN	1

SEAL KIT (70146314)**REPAIR INSTRUCTIONS**

1. Remove snap rings.
2. Pull stem from body.
3. Remove o-rings and backup rings.
4. Clean stem and body
5. Inspect stem and body for corrosion and wear. If corrosion or wear is present, discard and replace swivel.
6. Replace the o-rings, backup rings, and wiper rings as shown below.
7. Lubricate the o-rings and backup rings.
8. Locate the chamfered side of the body and insert the stem into the body.
9. Install new snap rings (flat side out) making sure the snap rings are seated properly in their grooves.
10. Install swivel using teflon tape on threads. Torque to 80 ft-lbs maximum.



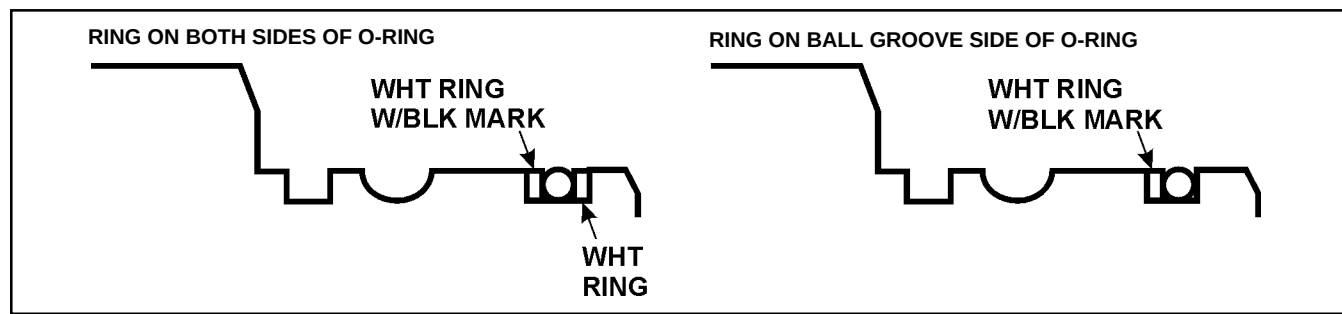
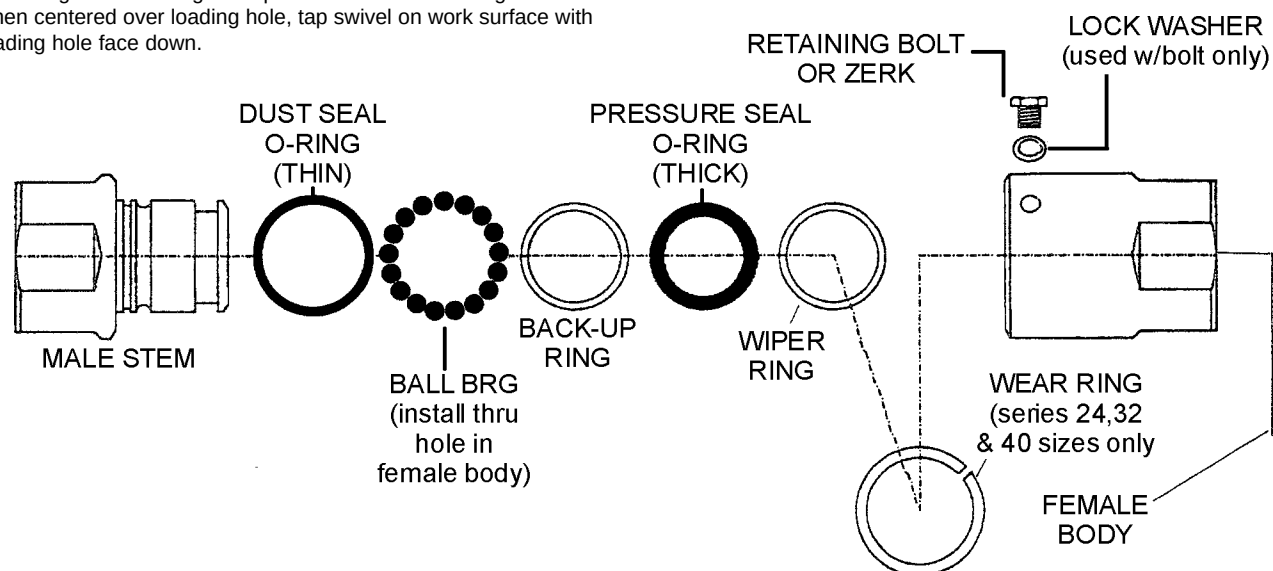
SWIVEL SEAL KIT (70146307)**SWIVEL SEAL KIT (70146315)****REPAIR INSTRUCTIONS**

1. Remove plug or grease zerk
2. Wash swivel in solvent. Rotate while immersed to remove grease from ball groove.
3. Remove balls by rotating with ball loading hole pointed down. If grease in ball groove prevents balls from falling free when centered over loading hole, tap swivel on work surface with loading hole face down.

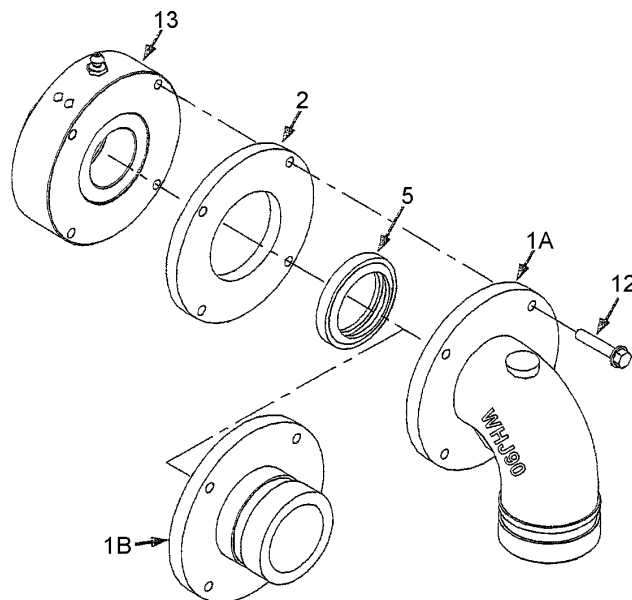
4. With all balls removed (check by rotating while looking into ball loading hole), pull the two halves apart.

5. Clean swivel thoroughly; install seals, wear ring when required, and lubricate the female bore and male outside diameter, before assembly. Load retainer balls and insert grease zerk. Use Lithium based grease with moly (Do not over-grease).

Note: Grease zerk must be removed and bolt and washer replaced on swivels without permanent grease fitting.

**SWIVEL JOINT SEAL KIT (70145668)**

- | | | |
|-----|-------------------------------|---|
| 1A. | INLET FITTING 90° | 1 |
| 1B. | INLET FITTING 180° | 1 |
| 2. | PACKING RING | 1 |
| 5. | 70145668 VITON PACKING 1-1/2" | 1 |
| 12. | CAP SCR 1/4-20X1-1/4 HH | 4 |
| 13. | BEARING ASM | 1 |

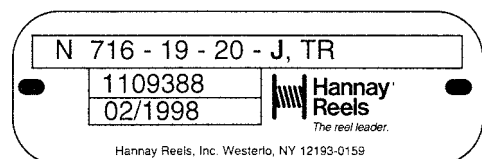


HOSE INSTALLATION (HANNAY HOSE REEL)

DETERMINE SPRING TYPE

The spring is indicated by the first letter at the end of the model number on the reel nameplate. It is also stamped on the mounting ear of the spring housing of most models. The maximum number of of usable turns, for which each spring is designed, is shown in the chart below.

SPRING TYPE	USABLE TURNS
SA	17
A	23
K	13
B	18
D	30
G	25
J	17
C	14
F	32
SCR	26
LC	18
L	17
B5 (HGR-100)	42
B6 (HGR-50)	30

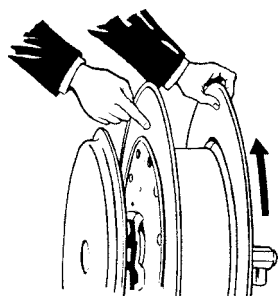


RELEASE SPRING (if necessary)

To release the spring, disengage the pawl from the ratchet wheel to allow the spring to unwind completely and slowly. If the reel is shipped from the factory without hose installed, the spring is normally discharged, requiring no release.

SETTING SPRING TENSION

Carefully turn the discs by hand in the direction that the outlet is facing. Resistance will be noticed after a couple of turns. The revolutions required will be determined by the spring type (see chart above). After the last turn is completed, lock the reel by engaging the pawl in the ratchet wheel. See figure.



CAUTION

Do not wind more than the number of turns listed for your spring, in the table above. Never wind the spring in reverse or free wheel past the start of the spring load.

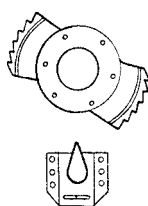


FIGURE A

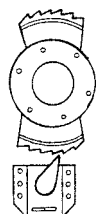


FIGURE B

ATTACH HOSE

After setting the spring tension, insert the hose between the rollers and attach the hose fitting to the hose outlet. For 1-1/2" spring reel (900 series), the outlet riser may be removed temporarily to facilitate attachment of the hose.

WINDING HOSE TO REEL

Pull gently on the hose until the pawl is clear of the ratchet teeth (figure A). Retract the hose slowly until it is completely on the reel. Pull the hose out until the pawl drops into one of the ratchet wheel teeth. Doing so will lock the reel (figure B).

REDUCING TENSION

If the spring tension is greater than required to adequately retract the hose, you may reduce the tension. After the hose is completely rewound on the reel, let the end of the hose pass back through the roller assembly, carefully allowing the reel to unwind by another revolution (more if necessary) until the desired tension is achieved. Relock the reel and pass the end of the hose back through the rollers.

ATTACHING BALL STOP TO HOSE

Draw the hose through the rollers to the point where the ball stop should be attached.

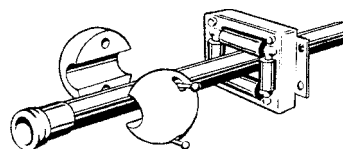


FIGURE C

NOTE

After ball stop is positioned, make sure that while the stop is resting against the rollers the brass pawl is disengaged from the ratchet wheel.

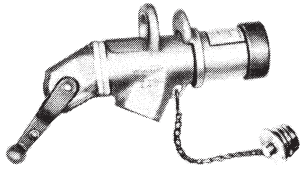
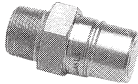
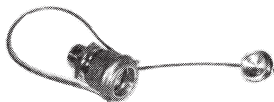
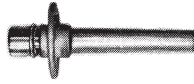
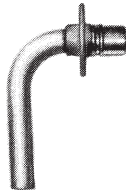
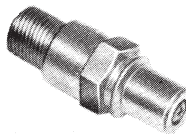
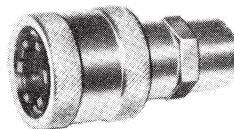
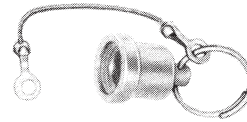
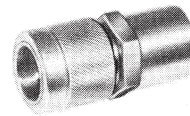
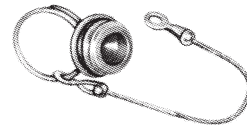
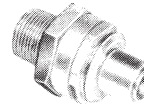
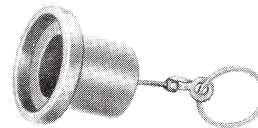
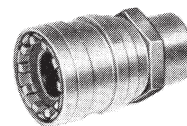
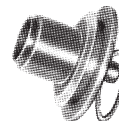
Join the halves of the ball stop together over the hose. Fasten the halves together using the fasteners provided (figure C).

FINAL CONNECTIONS

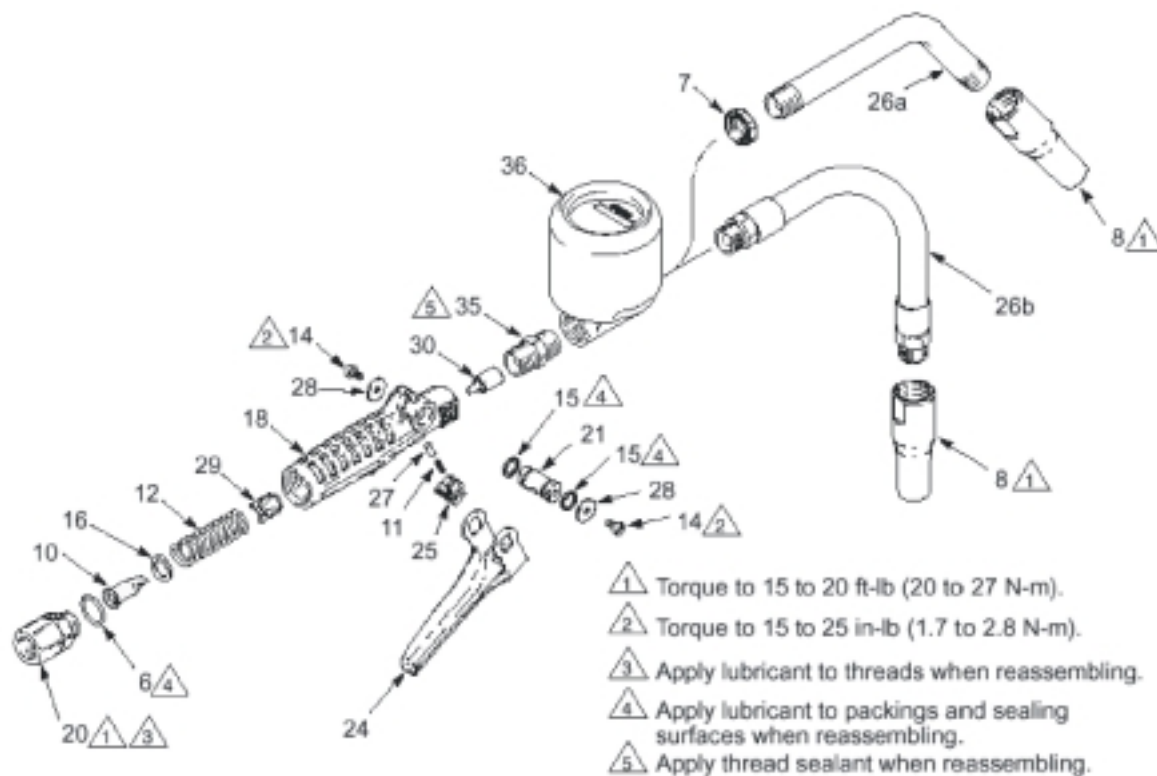
Make certain the reel is adjusted properly. Install a flexible connector to the inlet swivel joint on the side of the reel.

NOTE

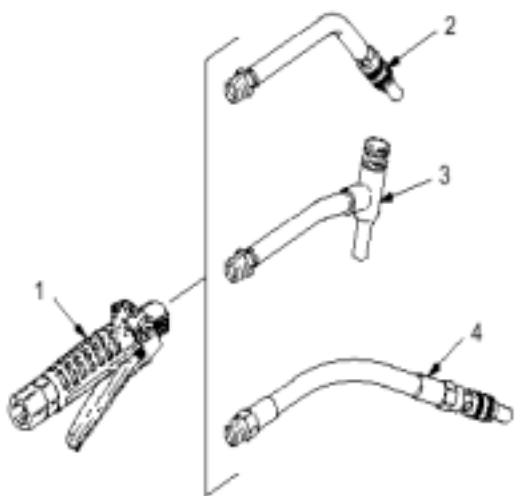
A flexible connector must be used between the inlet pipe and inlet swivel joint on the reel or the warranty will be void.

HOSE END ATTACHMENTS**REFUELING NOZZLE W/PLUG
(72532442)****RECEIVER
(72532400)****CAP FOR 72532400
(72532415)****RECEIVER & CAP-CRANKCASE
(72532408)****RECEIVER ONLY (72532405)****CAP ONLY (72533693)****NOZZLE & PLUG-CRANKCASE
(72532422)****NOZZLE ONLY (72532421)****PLUG ONLY (72532423)****ADAPTER TUBE-STRAIGHT
(72532433)****ADAPTER TUBE-90°
(72532434)****RECEIVER-TRANSMISSION
(72532428)****CAP FOR 72532428
(72532417)****NOZZLE-TRANSMISSION
(72532425)****CAP FOR 72532425
(70143959)****RECEIVER-COOLANT-BRASS
(72532429)****CAP FOR 72532429
(72532418)****NOZZLE-SALVAGE-BRASS
(72532426)****PLUG FOR 72532426
(72532431)****RECEIVER-HYDRAULIC
(72532430)****CAP FOR 72532430
(72532419)****NOZZLE-HYDRAULIC
(72532427)****PLUG FOR 72532427
(72532432)**

70733310 / 70731830
(Metered) (Non-Metered)



Ref No.	Part No.	Description	Qty.	Ref No.	Part No.	Description	Qty.
6		O-RING	2	21		CAM	1
7		NUT	1	24		TRIGGER	1
8	72533640	NOZZLE, oil	1	25		TRIGGER LOCK	1
10		FILTER	1	26a		TUBE 75° bend; 1/2 npt	1
11		SPRING	1	26b	72533641	HOSE, flexible; 1/2 npt	1
12		SPRING	1	27		GUIDE	1
14		SCREW	2	28		WASHER	2
15		SEAL	2	29		SEAT	1
16		WASHER	1	30		ROD	1
18		HANDLE	1	35	158491	NIPPLE	1
20		SWIVEL; 3/4-14 npt	1	36	70733122	METER, electronic; English	1
		SWIVEL; 1/2-14 npt	1		70733311	METER, electronic; metric	1



HOSE REEL-VALVE (70143289)

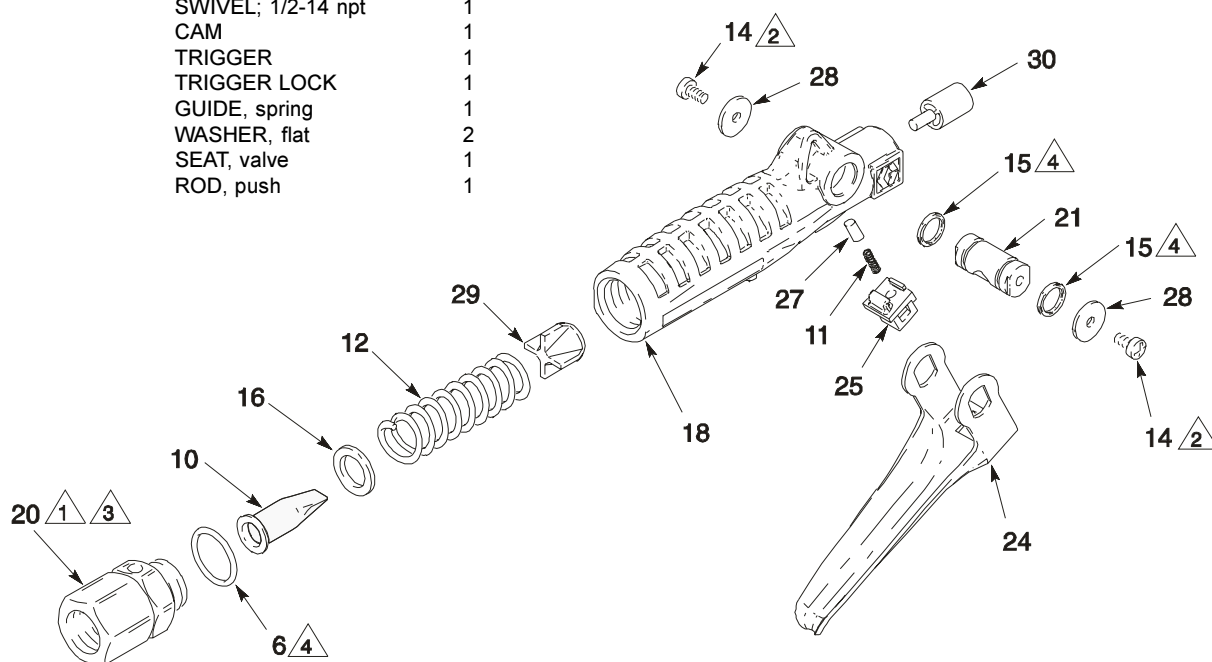
Ref. No.	Part No.	Description	Qty
1*	70145667	VALVE	1
2	203265	NOZZLE, oil	1

*See parts below.

HOSE REEL-VALVE (70145667)

Ref No.	Part No.	Descriptiong	Qty
6		O-RING, valve/swivel	1
10		FILTER	1
11		SPRING, compression	1
12		SPRING, compression	1
14		SCREW, machine	2
15		SEAL, o-ring	2
16		WASHER, plain	1
18		HANDLE, valve	1
20		SWIVEL; 1/2-14 npt	1
21		CAM	1
24		TRIGGER	1
25		TRIGGER LOCK	1
27		GUIDE, spring	1
28		WASHER, flat	2
29		SEAT, valve	1
30		ROD, push	1

- 1 Torque to 15 to 20 ft-lb (20 to 27 N-m)
- 2 Torque to 15 to 25 in-lb (1.7 to 2.8 N-m)
- 3 Apply lubricant to threads when reassembling
- 4 Apply lubricant to packings and sealing surfaces when reassembling

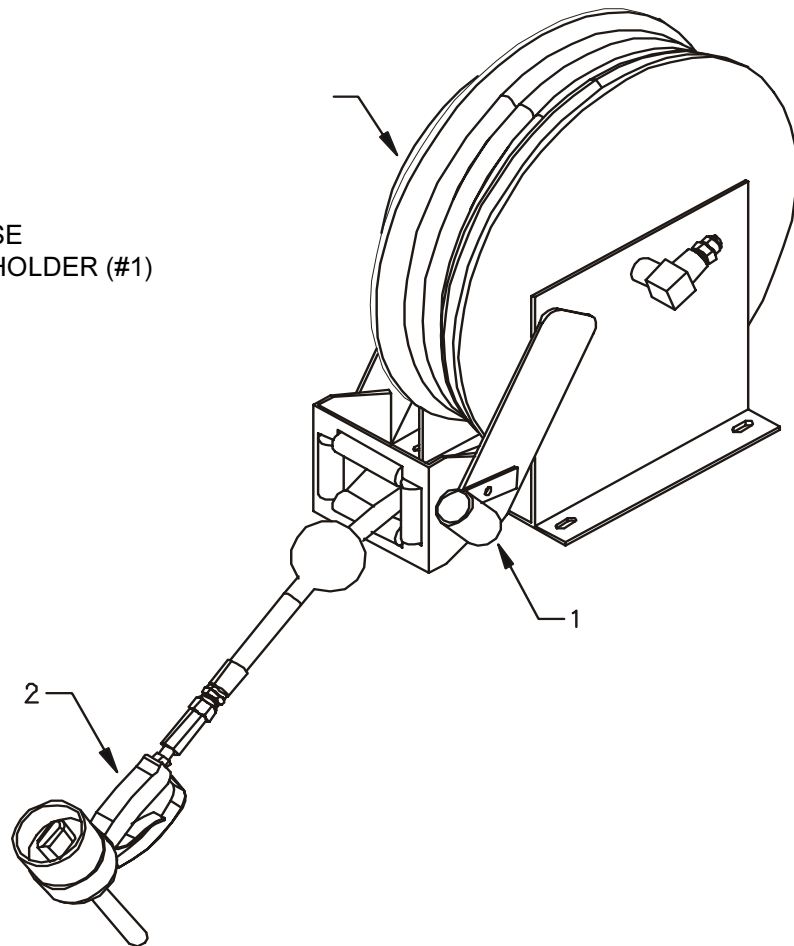


HOSE REEL - NOZZLE WITH HOLDER (51714245)

1	52714244NOZZLE HOLDER	1
2	70073426METER-VALVE	1
3	72060046CAP SCR .38-16 X 1.00 HH GR5 Z	1
4	51714245NUT .38-16 HEX NYLOC	1

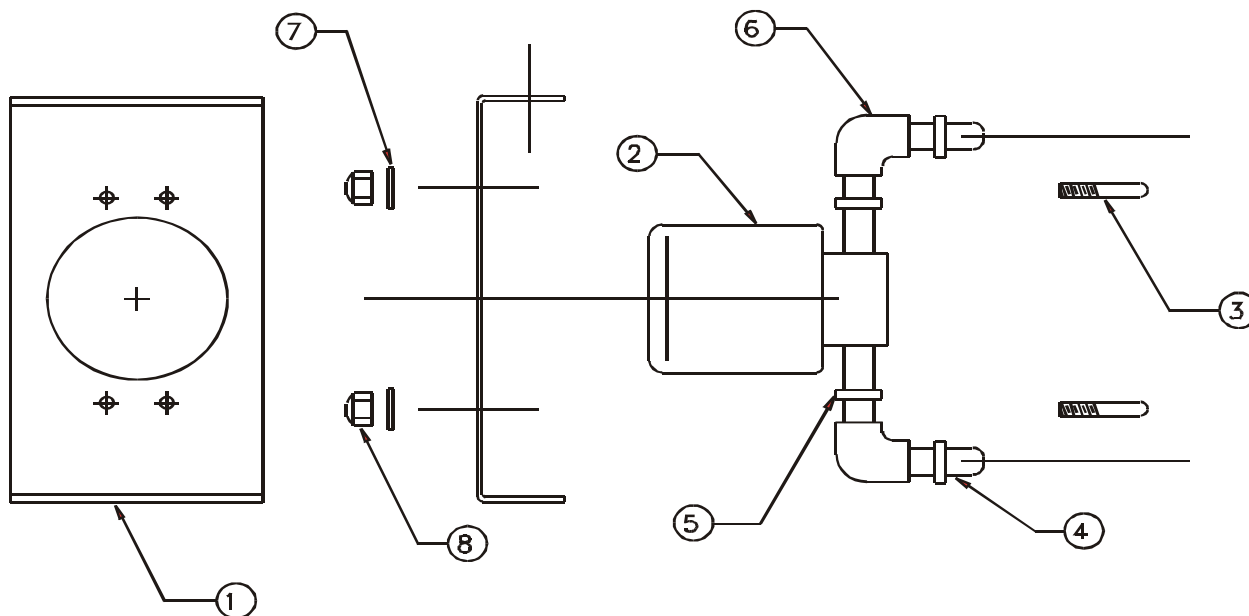
NOTE:

ITEMS #3 & #4 ARE USE
TO FASTEN NOZZLE HOLDER (#1)
TO THE HOSE REEL

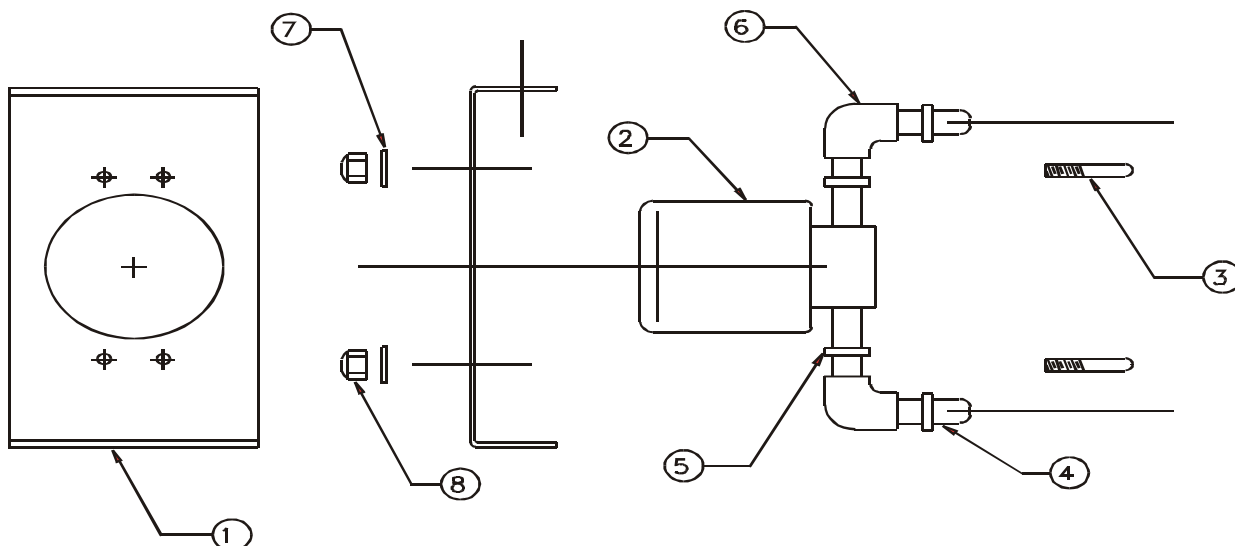


METER ASSEMBLY ELECTRONIC - QUARTS (51713741)

1	60119804	METER MOUNTING BRACKET	1
2	70733122	GRACO ELECTRONIC METER 235-880	1
3	72066915	U-BOLT .25-20 X 1.75IL X 1.00IW	2
4	72053497	ADAPTOR-MPT/M JIC .50 - #8	2
5	72053725	ADAPTOR-MPT/HE /MPT .50 .50	2
6	72531101	ELBOW-STEEL .50 X 90 DEGREE	2
7	72063001	WASHER - WRT FLAT .25	4
8	72062104	NUT - .25-20 NYLOCK	4
9	77041520	IN-LINE SOLENOID VALVE CARTRIDGE (NOT SHOWN)	1

**METER ASSEMBLY ELECTRONIC - METRIC (51713742)**

1	60119804	METER MOUNTING BRACKET	1
2	70733311	GRACO ELECTRONIC METER 235-880 METRIC	1
3	72066915	U-BOLT .25-20 X 1.75IL X 1.00IW	2
4	72053497	ADAPTOR-MPT/M JIC .50 - #8	2
5	72053725	ADAPTOR-MPT/HE /MPT .50 .50	2
6	72531101	ELBOW-STEEL .50 X 90 DEGREE	2
7	72063001	WASHER - WRT FLAT .25	4
8	72062104	NUT - .25-20 NYLOCK	4
9	77041520	IN-LINE SOLENOID VALVE CARTRIDGE (NOT SHOWN)	1



1.5" FUEL NOZZLES W/SWIVEL (51712745)**MATERIALS**

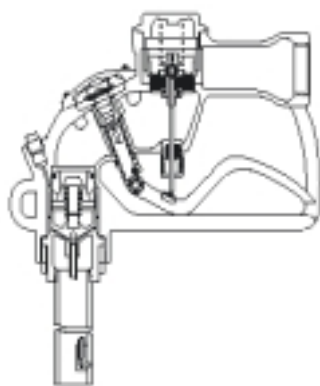
BODY: ALUMINUM

MAIN STEM: STAINLESS STEEL

PACKING: GRAPHITE WITH TEFLON®

MAIN DISC: VITON®

INLET SIZE: 1 1/2" NPT

**(70143697)****MATERIALS**

BODY: HARD COATED ALUMINUM

BEARINGS: MOLDED PLASTIC

SEALS: BUNA-N O-RING, FELT DUST SEAL

VITON® O-RING

Water Heater (77040350)**SPECIFICATIONS****HEAT OUTPUT:***BTU/hr(KW)*

24000 (7.0) High

6000 (1.8) Low

FUEL CONSUMPTION:*Gal/hr(L/hr)*

Diesel 1,2 Or Kerosene

0.24 (0.9) High

0.06 (0.22) Low

ELECTRICAL CONSUMPTION:*12V model shown*

5.8 amps (High)

4.2 amps (Low)

WATER THROUGHPUT

20 US gal/hr

(1600L/hr)

WEIGHT

11 lbs. (5 kg)

DIMENSIONS

L = 13" (32 cm)

W = 9" (23 cm)

H = 5" (13 cm)

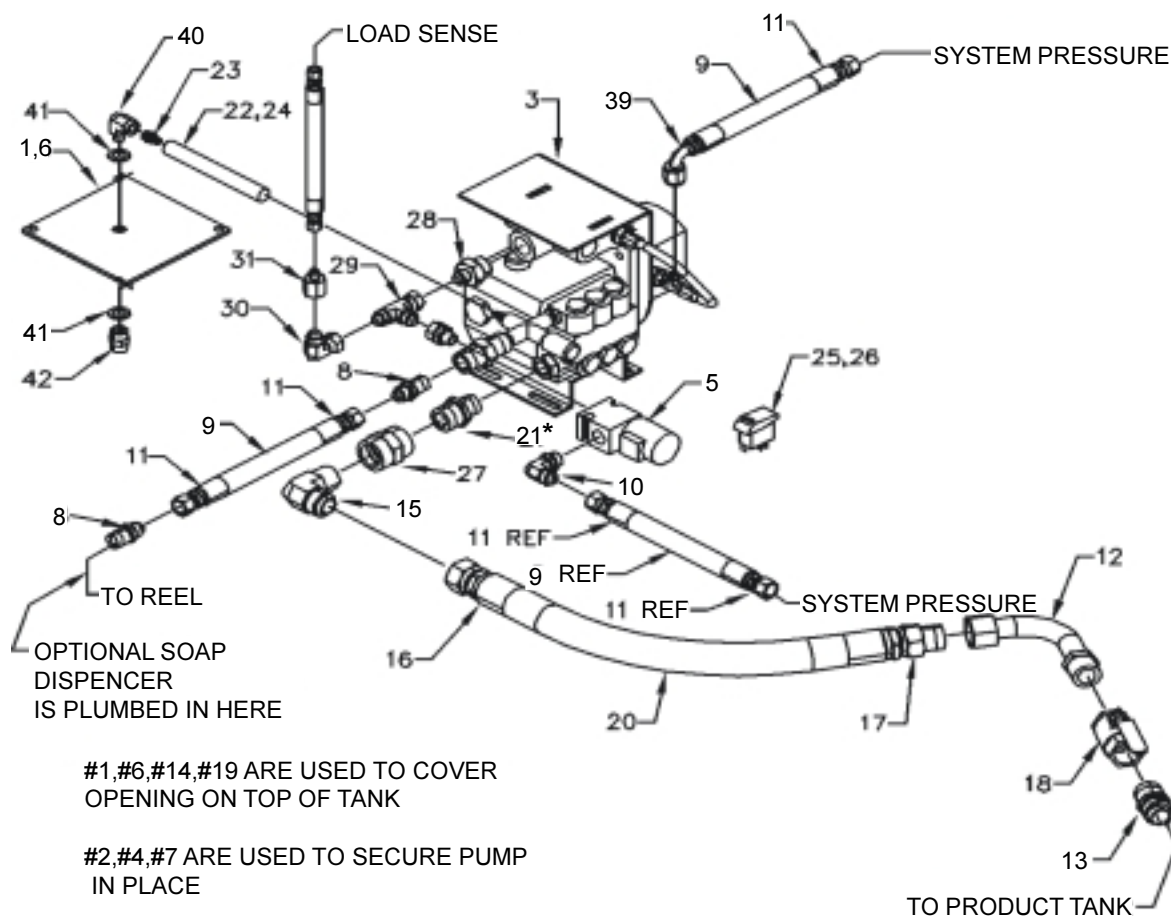
UNIT HEATER (77040107)

- 3 TO 50 KW
- 1 OR 3 PHASE AVAILABLE
- EASY ACCESS FOR SERVICE

77040238

PUMP ASM - HYD LUBE HP-W RMT MT (51711760)

1	60112239	PLATE-COVER PUMP HOLE	1	20	89393811	HOSE-HYD 1.00	15 FT.
2	72062103	NUT .38-16 HEX NYLOC ZINC	4	21	72533369	ADPTR-MNH/MPT BRS .75 - 1.00	1
3	73051676	POWER WASHER-PACE/HP	1	22	72066452	CLAMP-HOSE .25-.62	2
4	72063003	WASHER .38 W FLAT ANSI B27.2Z	8	23	72531539	NIPPLE-BARB BRS .25MPT .38	1
5	73054576	VALVE-SOLENOID	1	24	89392426	HOSE-GP .38 GRAY PUSHLOK	20 FT.
6	76392369	GASKET-PUMP HOLE TANK COVER	1	25	77041499	SWITCH-ROCKER RED ACTUATOR	1
7	72060046	CAP SCR .38-16 X 1.00 HH GR5 Z	4	26	77041500	SWITCH-ROCKER BODY	1
8	72053497	ADPTR-MPT/M JIC .50 - #8	2	27	72053473	COUPLING-STL 1.00	1
9	89394043	HOSE-HYD .50	7 FT.	28	72053671	ADPTR-MPT/M JIC .75 - #8	1
10	72053763	ELBOW-M STR/90/M JIC #8 #8	1	29	72532657	TEE-SWWL NUT RUN JIC .75	1
11	72532975	HOSE FTG-TYPE F #8 - .50	3	30	72532658	ELBOW-M JIC/F JIC SW #8 #8	1
12	70145281	TUBE ASM-HYD 1.00 X 5.68 1BEND	1	31	72532665	ADPTR-M JIC/F JIC #4 #8	1
13	72053680	ADPTR-MPT/M JIC 1.00 - #16	1	32	72533596	ADPTR-MPT/F JIC .50 - #8	1
14	72060025	CAP SCR .31-18 X 1.00 HH GR5 Z	4	33	77044574	CONN-PKRD F 2 WAY	1
15	72531430	ELBOW-MPT/90/M JIC 1.00 - #16	1	34	77044550	TERMINAL-FEM 18-20GA	2
16	72533386	HOSE FTG-TYPE F #16 - 1.00	1	35	70394069	SEAL-CABLE CONNECTOR	4
17	72533483	HOSE FTG-TYPE C 1.00 - 1.00	1	36	77044573	CONN-PKRD M 2 WAY	1
18	73054378	VALVE-BALL 1.00	1	37	77044552	TERMINAL-MALE 18-20GA	2
19	76392598	WASHER-BONDED PLTD .31	5	38	89044188	CABLE-14AWG DUPLX AUTO PRIMARY	8 FT.
				39	72533387	HOSE FTG-TYPE J #8 - .50	1
				40	72531131	ELBOW-STREET STL .25X90 DEG.	1
				41	72063117	WASHER .56 N FLAT H	2
				42	72063469	COUPLING-STL .25	1



#1,#6,#14,#19 ARE USED TO COVER
OPENING ON TOP OF TANK

#2,#4,#7 ARE USED TO SECURE PUMP
IN PLACE

*WHEN PLUMBING #21, USE CAUTION
TIGHTENING. MATING FITTING IS BRASS



IOWA MOLD TOOLING CO., INC.

BOX 189, GARNER, IA 50438-0189

TEL: 641-923-3711

TECHNICAL SUPPORT FAX: 641-923-2424