



PARTS AND SPECIFICATIONS



IOWA MOLD TOOLING CO., INC.

BOX 189, GARNER, IA 50438-0189

TEL: 641-923-3711

MANUAL PART NO: 99903257

Revised: 20190821

Iowa Mold Tooling Co., Inc. is an Oshkosh Corporation company.

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REVISIONS LIST

DATE	LOCATION	DESCRIPTION OF CHANGE-
20010731	8-24	NEW PAGE WITH UNDERSEAT HEATERS
20010802	1-1 THROUGH 1-10	ADDED COMPACT LUBE SPECIFICATION TO SPEC SECTION
20010806	8-6,7,14	BOM CHANGE 70146418 WAS 70146308 AND 72533654 WAS 70733654
20011024	8-9,10	ADDED PART NUMBERS TO BOM
20010131	6-3	UPDATED AIR TANK DRAIN VALVE DWG., BOM
	8-4	CORRECTED BOM ON HOSE REEL KIT
20020529	2-8,9	ADDED 50-GALLON HYDRAULIC KIT (51709671) TO MANUAL
	3-3-6	ECN 8831, CHANGED SWITCH BOX, HARNESS ON 51717257
20020826	2-4	ECN 8932 - UPDATED 51712877 DRAWING TO INCLUDE LOAD SENSE DAMPENING ORIFICE
	2-16	ECN 8990 - ADDED 71039134 TO DECAL KIT, VISOR
	7-21	ADDED PART NO FOR CASING & GEAR ASM - 70147760 - TO DWG
20021022	8-9,10	UPDATED SPARE PARTS ON 1.5" REEL (70073607), 1" FUEL REEL (70732533)
20021106	8-12	UPDATED SPARE PARTS ON 3/8" GREASE REEL (70732175)
20021204	2-4	CORRECTED ITEM#
20030129	3-12	ADDED ITEMS 15-17 TO GENERATOR KIT (51710139)
20030505	8-7,8,16	ADDED COMPONENT PART NUMBERS TO HOSE REELS
20030718	5-17	ADDED ITEM 16, BOTTOM SEAL, TO ROLL-UP DOOR 70733506. ADDED PAGE 5-18
20030929	8-15	CORRECTED METERED VALVE PART NUMBER. (WAS 70733310 - SHOULD BE 70143310)
20040726	7-14	ECN 9520 - CHANGER RED BUSHING ON 51708625 PUMP ASM
20050209	3-4	ECN 9597 - CHANGE TO 51717257
20050712	3-4	ECN 9821 - CORRECTION TO 51717257 BOM
20050922	8-3,4	ECN 9916 - ADDED FITTINGS TO HOSE REELS 51711922, 51713743
20060321	5-5,6,7	CORRECTED DOOR STOP/SPRING PART NUMBER TO 70144288
20061127	1-1	UPDATED OWNERSHIP STATEMENT
	7-12	REVERSED NOTES ON PUMP ASM-HYD LUBE/SALV-RMT MOUNT DRAWING
20070425	7-15,21	ECN 10381 - ADDED 51712725 SALVAGE PUMP ASM, CORRECTED BOM ON 51711760
20071008	2-8,10; 7-12	ECN 10523 - HOSE CLAMP 72661642 WAS 72066516
20110209	7-17	UPDATED DESCRIPTION FOR PUMP ASSEMBLIES, SHELF MOUNT. ADDED 51708623 TANK MOUNT.
20120223	5-18	ECN 11676 - ADDED 51713131 AND 51724256.
20120605	7-22	ECN 11596 - UPDATED 51712725 PUMP ASSEMBLY.
20131210	5-3, 5-4, 5-5, 5-7	ECN12111 - ADDED PART NUMBER COLUMN FOR BLACK LATCHES.
20140529	SECTION 4	ADDED PER ENGINEERING REQUEST.
20140605	2-13	ECN 12220 - ADDED 70399191
20160419	Air Tank Kit	Changed 70731788 to 70733568 per John Martin, CS.
20171031	70034573	CN696-Added Protective Sleeve Installation instructions.
20190219	51708623	CN901-Added 72053758.
20190821	77441701	CN994

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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.

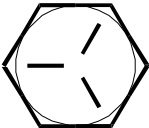
BOX 189, GARNER, IA 50438-0189

TEL: 641-923-3711

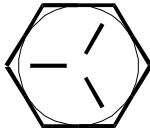
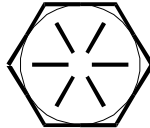
TECHNICAL SUPPORT FAX: 641-923-2424

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.

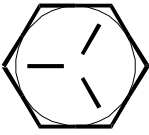
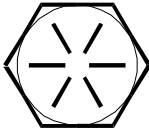
1. Bolt manufacturer's particular specifications should be consulted when provided.
2. Flat washers of equal strength must be used.
3. All torque measurements are given in foot-pounds. To convert to inch-pounds, multiply by 12.
4. Torque values specified are for bolts with residual oils or no special lubricants applied. If special lubricants of high stress ability, such as Never-Seez compound graphite and oil, molybdenum disulphite, colloidal 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

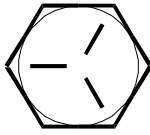
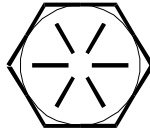
Anytime a gear-bearing bolt is removed, it must be replaced with a new bolt of the identical grade and size. Once a bolt has been torqued to 75% of its proof load and then removed, the torque coefficient may no longer be the same as when the bolt was new thus giving indeterminate clamp loads after torquing. 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.
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.

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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SPECIFICATIONS LUBRICATION BODY

BODY STRUCTURE	MODULAR SERIES	COMPACT SERIES
Longsills	8" x 3" x 3/16" Structural Tubing	4" x 4" x 1/8" Structural Tubing
Crossmembers	4" x 5.4 lb Structural Channel	4" x 1.25" x 10 ga Formed Channel
Rubrails	5" x 5.4 lb Structural Channel	3/8" x 4.5 lb Structural Channel
Cargo Floor	1/8" 4-Way Diamond Tread Plate	1/8" 4-Way Diamond Tread Plate
Mounting System	3/8" Shear Plate w/ Spring-Loaded Tie Downs	3/16" Shear Plate
Drip Tube Bumper	8" x 6" Structural Tubing	
STANDARD FEATURES	MODULAR SERIES	COMPACT SERIES
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.	Reinforced, formed, floor-plate bumper and reel shelf. Easy access control panel and oil reels.
Under Body Tool Boxes	Constructed of 12ga galvanized steel. Stainless steel hinges & T-handle latches. Automotive bulb type weatherstripping.	Two toolboxes of galvanized steel with SS hinges, T-handle latches. Automotive bulb-type weatherstripping.
Filter Drain Compartment	Under deck steel construction with roll out drain drawer and 15 gallon reservoir.	Above deck steel construction with roll-out drain drawer and 15 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.	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, DOT light and reflector kit.	12V back up alarm, 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.	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.	Hydraulically driven, fixed clearance gear type pump and motor with a common shaft. Variable flow control with 0-12 GPM delivery rate.

SPECIFICATIONS - LUBRICATION BODY

STANDARD FEATURES

Product Tanks

MODULAR SERIES

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.

COMPACT SERIES

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.

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 - MODULAR SERIES

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 5.4# 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 optional toolbox package consists of 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.

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, 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 constructed 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 12 VDC in line wiring connections will utilize sealed hinge lock 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 Twelve-volt adjustable lights shall 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.
- 2.2 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 is driving.

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. Two nominal 115-gal tanks shall be supplied for oil. Two nominal 175-gal tanks shall be supplied for oil. 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 product oil pumping system will consist of a hydraulic driven gear pump per oil tank. Each 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. One nominal 50-gal tank shall be supplied for antifreeze. 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 will consist of a hydraulic driven pump. The 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 reel

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s 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 SALVAGE

- 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. One nominal 235-gal tank shall be supplied for oil salvage. 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 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 1-1/4" 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 will be supplied to access the upper deck of the lube body. Grab handles are mounted on either side of the ladder 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.

DESCRIPTIVE SPECIFICATION - COMPACT SERIES

1.0 BODY

- 1.1 The body shall be constructed of 4" x 4" x 1/8" tubing sills, 4" x 1.25 x 10 gauge formed channel members located on 12" centers and 3/8" x 4.5 rub rails. Decking shall be constructed of 1/8" floor plate. Body mounting system shall utilize 3/16" high strength steel fixed shear plates.
- 1.2 There shall be two underbody toolboxes, one located on either side of the body. 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.
- 1.3 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 22" wide X 8" High X 19" deep. It will be located on the right front corner of the lube body.
- 1.4 The rear service area shall incorporate a reinforced, formed, floor plate style bumper and a reel shelf constructed of galvanized steel incorporated into the body weldment. The systems control panel shall be located above the body deck for easy access. The oil reels shall be located for easy reach and operation of each system.
- 1.5 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 12VDC in line wiring connections will utilize Packard, sealed hinge lock 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 Twelve-volt adjustable lights shall 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.
- 2.2 Electrical Control Station – one (1) weather- resistant control box with a latched door 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 have an LED indicator and be fused in accordance to the rated load it is driving.

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. Oil product tanks are available in sizes from 30 to 235 gallons. The number of systems shall be determined by the weight distribution of the total vehicle. 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 product oil pumping system will consist of a tank mounted hydraulic driven gear pump per oil tank. Each product pump shall be equipped with an on/off switch and be capable of a sustained nominal delivery rate of 0-12GPM.
- 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. One tank shall be supplied for antifreeze. 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 will consist of a hydraulic driven pump. The 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 SALVAGE

- 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. One tank shall be supplied for oil salvage. 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 Salvage oil reel 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 1-1/4" 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 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 DA435HA 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. The compressor shall be mounted above the filter drain drawer.
- 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, 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.

9.0 MISCELLANEOUS ITEMS

- 9.1 A retractable ladder will be supplied on both sides of the lube vehicle to access the deck of the lube body.
- 9.2 A filter storage cabinet shall be mounted on the front left-hand side of the deck. The storage cabinet shall be 24" x 51" x 35" and constructed of galvanized steel with stainless steel hinges, T-handle type latches with common keys, reinforcements, adjustable shelves, and automotive bulb type weather stripping for sealing the doors.

IOWA MOLD TOOLING CO., INC.

BOX 189, GARNER, IA 50438-0189

TEL: 641-923-3711

TECHNICAL SUPPORT FAX: 641-923-2424

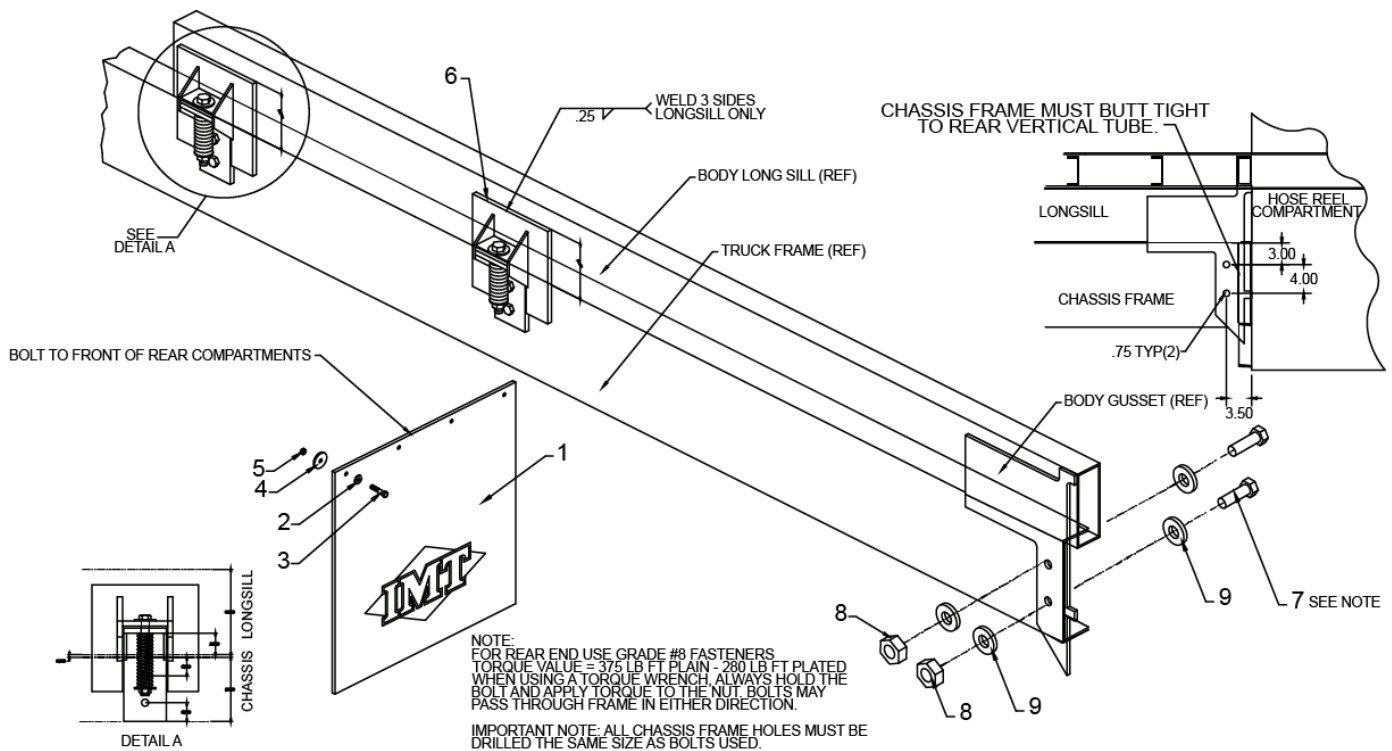
INSTALLATION KIT 93711875	2-3
INSTALLATION KIT-LOAD SENSE HYD (51712877)	2-4
HYD INSTALLATION KIT - DA435HA (91712721)	2-5
HYD INSTALLATION-COMPRESSOR (51715709)	2-6
HYD SCHEMATIC-LUBE SYSTEM (99903232)	2-7
HYD KIT RESERVOIR - 50 GALLONS (51709671-1)	2-8
HYD KIT RESERVOIR - 50 GALLONS (51709671-2)	2-9
HYD KIT-RESERVOIR - 60 GALLONS (51716105-1)	2-10
HYD KIT-RESERVOIR - 60 GALLONS (51716105-2)	2-11
DECAL PLACEMENT (1 OF 5)	2-12
DECAL PLACEMENT (2 OF 5)	2-13
DECAL PLACEMENT (3 OF 5)	2-14
DECAL PLACEMENT (4 OF 5)	2-15
DECAL PLACEMENT (5 OF 5)	2-16

NOTES

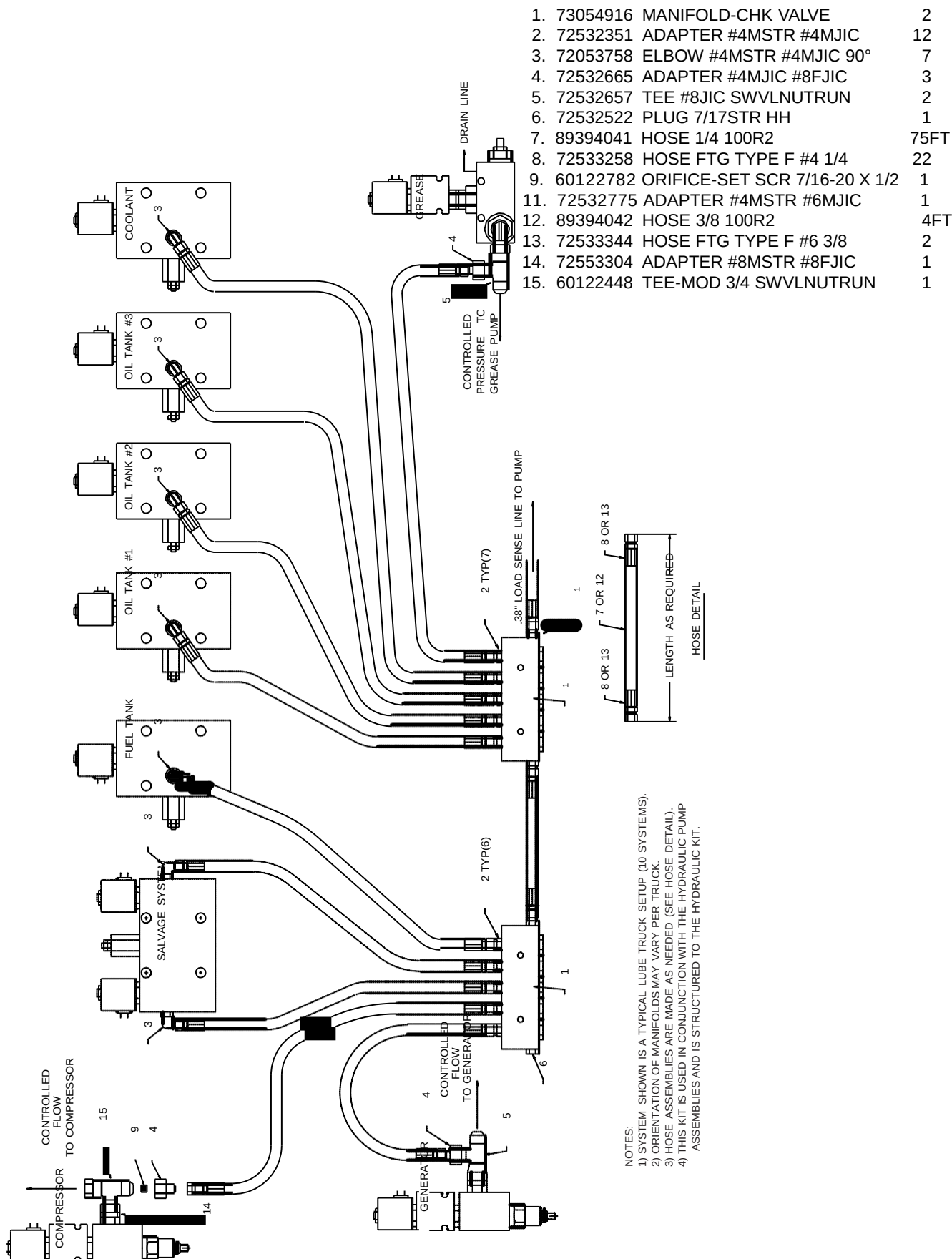
This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

INSTALLATION KIT 93711875

1.	76393799	MUP FLAP W/LOGO	2
2.	72063001	WASHER 1/4 WRT	6
3.	72060025	CAP SCREW 5/16-18x1 HHGR5	6
4.	72063078	WASHER 5/16X1.62 OD	6
5.	72062109	NUT 5/16-18 LOCK	6
6.	51709866	TIE DOWN KIT	4
7.	72060207	CAP SCREW 3/4-10x3 HHGR8	4
8.	72062272	NUT 3/4-10 DRAKE GR8	4
9.	72053116	WASHER 3/4 HARD FLAT	4
10.	70393249	PLACARD-PATENT MOBILE LUBE	3

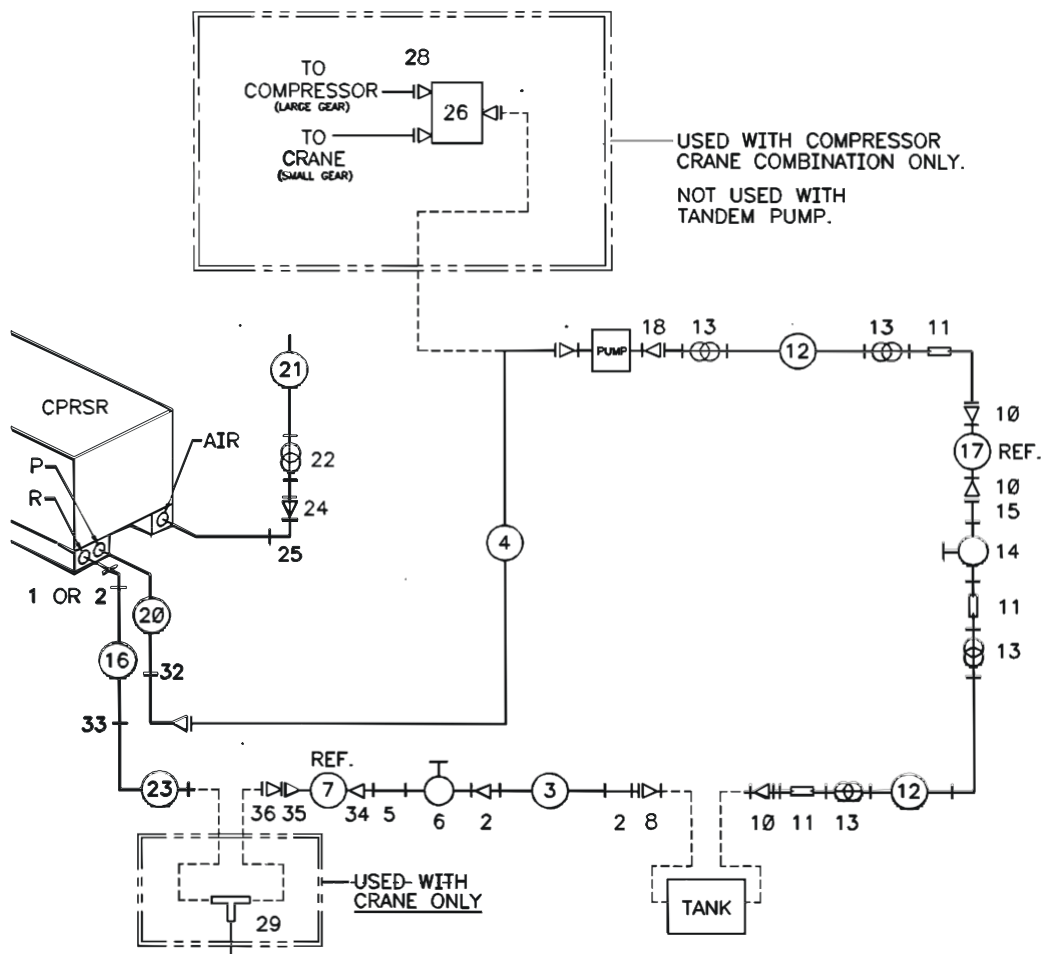


INSTALLATION KIT-LOAD SENSE HYD (51712877)



HYD INSTALLATION KIT - DA435HA (91712721)

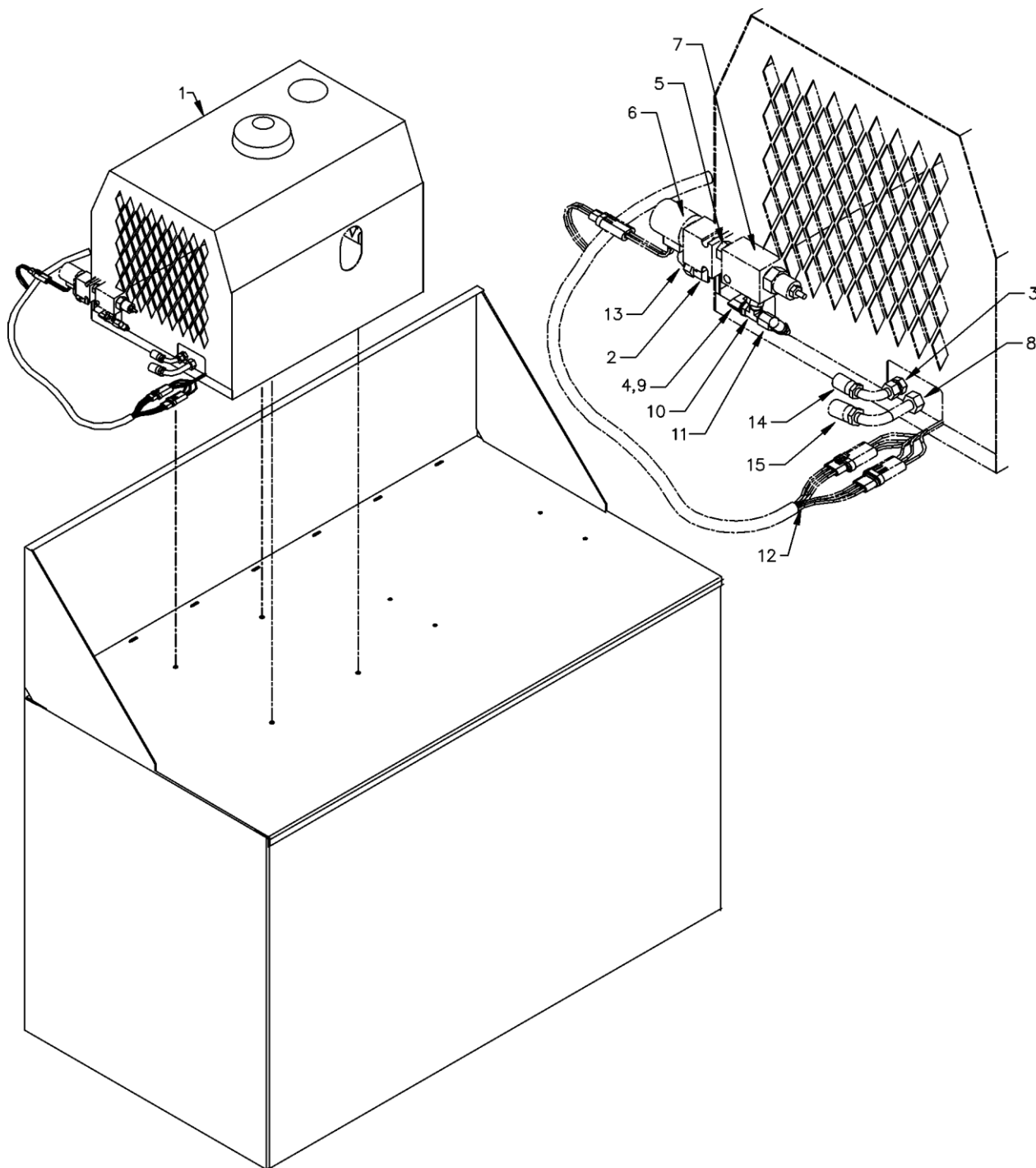
1. 60111087 BASE PLATE	1	20. 72063005 WASHER 1/2 WRT	8
2. 72053763 ELBOW #8MSTR #8MJIC 90°	1	22. 77041499 SWITCH-ROCKER RED ACTUATOR	1
3. 72060093 CAP SCR 1/2-13X1-1/2 HHGR5	4	23. 77041500 SWITCH-ROCKER BODY	1
4. 72062080 NUT 1/2-13 LOCK	4	24. 72532136 PLUG 1-1/16STR HH STL	1
5. 72053767 ELBOW #12MPT #12MJIC 90°	1	25. 72531426 ELBOW 1/2MPT #12MJIC 90°	1
6. 72553304 ADAPTER #8MSTR #8FJIC	1REF*	26. 77040137 TERMINAL 1/4 FSLPON 12-10GA	2
7. 60122448 TEE-MOD 3/4 SWVLNUTRUN	1REF*	27. 77040186 TERMINAL 1/4 FSLPON 16-14GA	3
8. 72532665 ADAPTER #4MJIC #8FJIC	1REF*	28. 77040048 BUTT CONN 16-14GA	3
9. 72533595 ELBOW #12MSTR #8MJIC 90°	2	29. 72532986 ELBOW-BULKHD #8MJIC #8MJIC	1
10. 72532728 UNION #8MSTR #8MSTR	1	30. 72533373 UNION-BULKHD #8JIC 37°	1
11. 72532975 HOSE FTG TYPE F #8 1/2	2	31. 72533371 UNION-BULKHD #12JIC 37°	1
12. 72532976 HOSE FTG TYPE F #12 3/4	4	32. 89044235 WIRE 14GA WHT	12FT
13. 72533258 HOSE FTG TYPE F #4 1/4	2REF*	33. 89394043 HOSE 1/2 100R2	8FT
14. 73054576 SOLENOID VALVE	1	34. 89393652 HOSE 3/4 100R2	24FT
15. 73054714 VALVE-FLOW REG	1	35. 89393634 HOSE 3/4 100R4	8FT



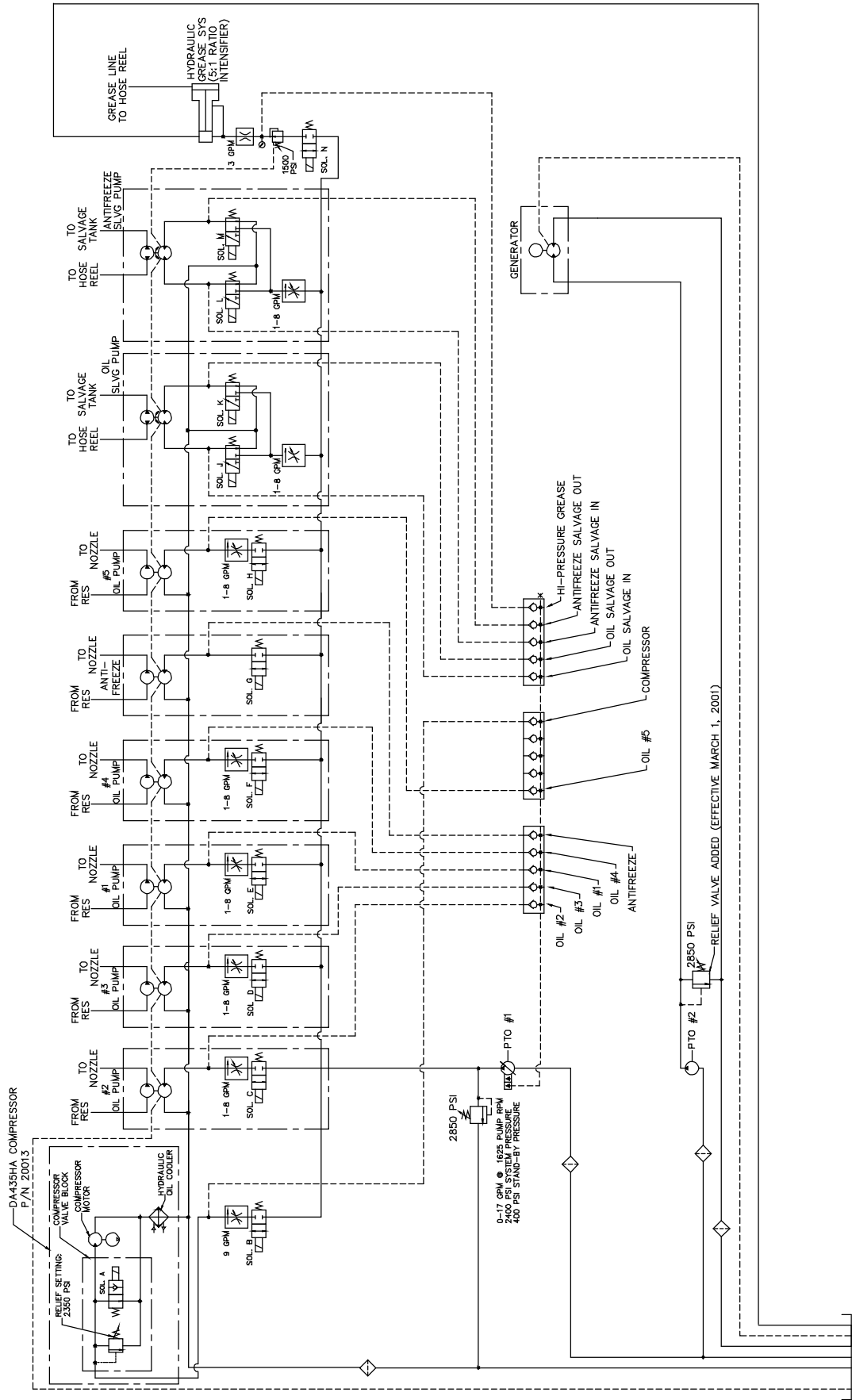
HYD INSTALLATION-COMPRESSOR (51715709)

1.	20013	COMPRESSOR	1REF
2.	72053763	ELBOW #8MSTR #8MJIC 90°	1
3.	72053676	ADAPTER 3/4MPT #12MJIC	1
4.	72533595	ELBOW #12MSTR #8MJIC 90°	1
5.	72532728	UNION #8MSTR #8MSTR	1
6.	73054576	VALVE-SOLENOID	1
7.	73054714	VALVE-FLOW REGULATOR	1

8.	72053675	ADAPTER 1/2MPT #12MJIC	1
9.	72553304	ADAPTER #8MSTR #8FJIC	1REF
10.	60122448	TEE-MODIFIED	1REF
11.	72532665	ADAPTER #4MJIC #8FJIC	1REF
12.	77044883	HARNESS	1REF
13.	72533387	HOSE FITTING-TYPE J #8 .50	1REF
14.	72533378	HOSE FITTING-TYPE J #12 .75	1REF
15.	72533324	HOSE FITTING-TYPE Z #12 .75	1REF
16.	72533373	UNION-BULKHD .75MJIC(Not Shown)	1
17.	72533371	UNION-BULKHD 1.06MJIC(Not Shown)	1



HYD SCHEMATIC-LUBE SYSTEM (99903232)

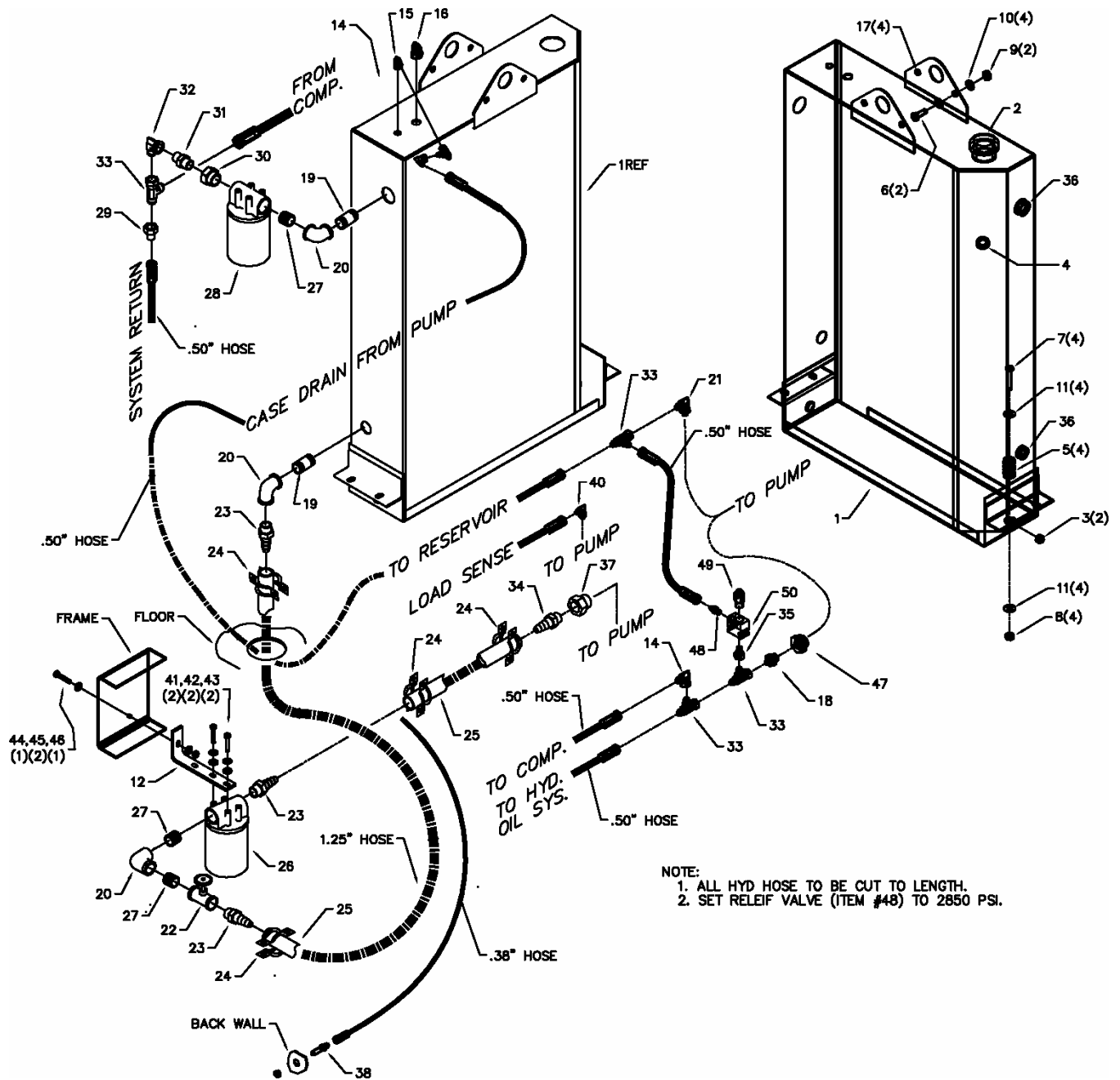


HYD KIT RESERVOIR - 50 GALLONS (51709671-1)

SEE FOLLOWING PAGE FOR DRAWING

1.	52707100 RESERVOIR-WLDMT 55 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.	72060986 CAP SCR 1/2-13X2.75 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	1
13.	72532657 TEE #8JIC NUT RUN	1
14.	72532658 ELBOW #8MJIC #8FJIC SWIVEL	2
15.	72531421 ELBOW 1/2MPT #8MJIC	1
16.	72531427 ELBOW 3/4MPT #12MJIC 90°	1
17.	76393038 GROMMET .44	4
18.	72532360 ADAPTER #12MSTR #8MJIC	1
19.	72053213 NIPPLE-PIPE BLK 1-1/4 X 3.00	2
20.	72053327 ELBOW BLK 1-1/4 X 90°	3
21.	72053764 ELBOW-#10MSTR #8MJIC 90°	1
22.	73054130 GATE VALVE 1-1/4 BRASS	1
23.	72531550 NIPPLE BARB STL 1-1/4 MPT 1.25	3
24.	72661642 CLAMP, HOSE (WAS 72066516)	4
25.	89393401 HOSE 1.25"	20Ft
26.	73052012 FILTER-SUCTION	1
27.	72053211 PIPE NIPPLE 1.25 X CLOSE	3
28.	73052091 FILTER-RETURN	1
29.	72532972 ADAPTER #8MJIC #12FJIC	1
30.	72053180 REDUCER BUSH-BLK 1.25 - .75	1
31.	72053676 ADPTR .75 MPT #12 MJIC	1
32.	72532696 ELBOW - #12MJIC #12FJIC SW	1
33.	72532657 TEE-SWVL NUT RUN JIC 3/4	3
34.	72531530 NIPPLE-BARB STL #20 STR 1.25	1
35.	72533304 ADPTR #8MALE O-RING #8FEM	1
36.	72053249 PLUG-PIPE SQ HD BLK 1.25	2
37.	72533114 ADPTR #24 MSTR #20 FSTR	1
38.	72532835 UNION- BLKHD 37° JIC 9/16	1
39.	51712877 INSLT KIT-LUBE LOAD SENSE	1
	(NOT SHOWN)	
40.	72533594 ELBOW #4MSTR #6MJIC 90°	1
41.	72060025 CAP SCR 5/16-18 X 1.00 HHGR5Z	2
42.	72063002 WASHER 5/16 FLAT	2
43.	72063050 WASHER 5/16 LOCK	2
44.	72060048 CAP SCR 3/8-16 X 1.50 HH GR5Z	1
45.	72063003 WASHER 3/8 FLAT	2
46.	72062103 NUT 3/8-16 HEX NYLOC	1
47.	72532948 ADPTR #16MSTR #12FSTR	1
48.	72532358 ADPTR #8MSTR #8MJIC	1
49.	73054583 RELIEF VALVE	1
50.	70143516 BODY-VALVE 8T	1

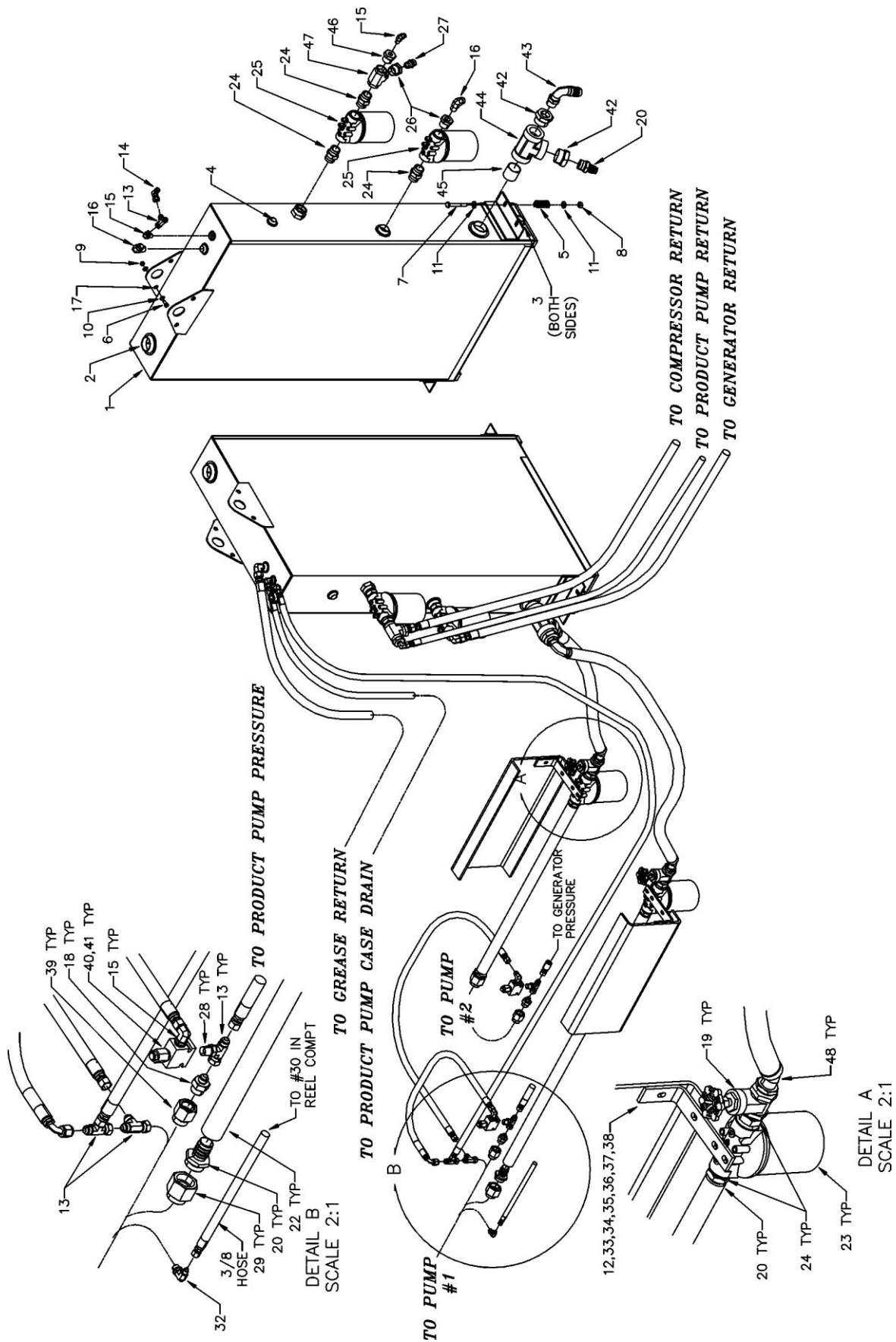
HYD KIT RESERVOIR - 50 GALLONS (51709671-2)



HYD KIT-RESERVOIR - 60 GALLONS (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 2-1.25 NPT	1
43.	72532346	BARB NIPPLE 90° 1.25-1.25 NPT	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

HYD KIT-RESERVOIR - 60 GALLONS (51716105-1)



DECAL PLACEMENT (1 OF 5)

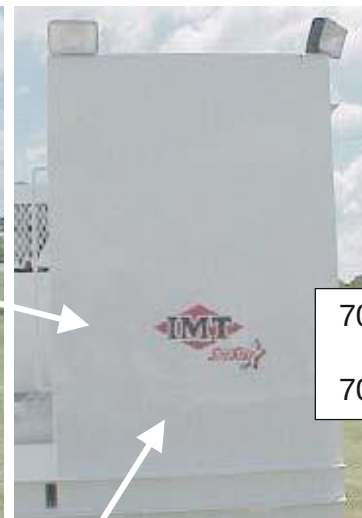


70029251

70393669



70039058 (4REF)
BOTH SIDES



70029251

70393669



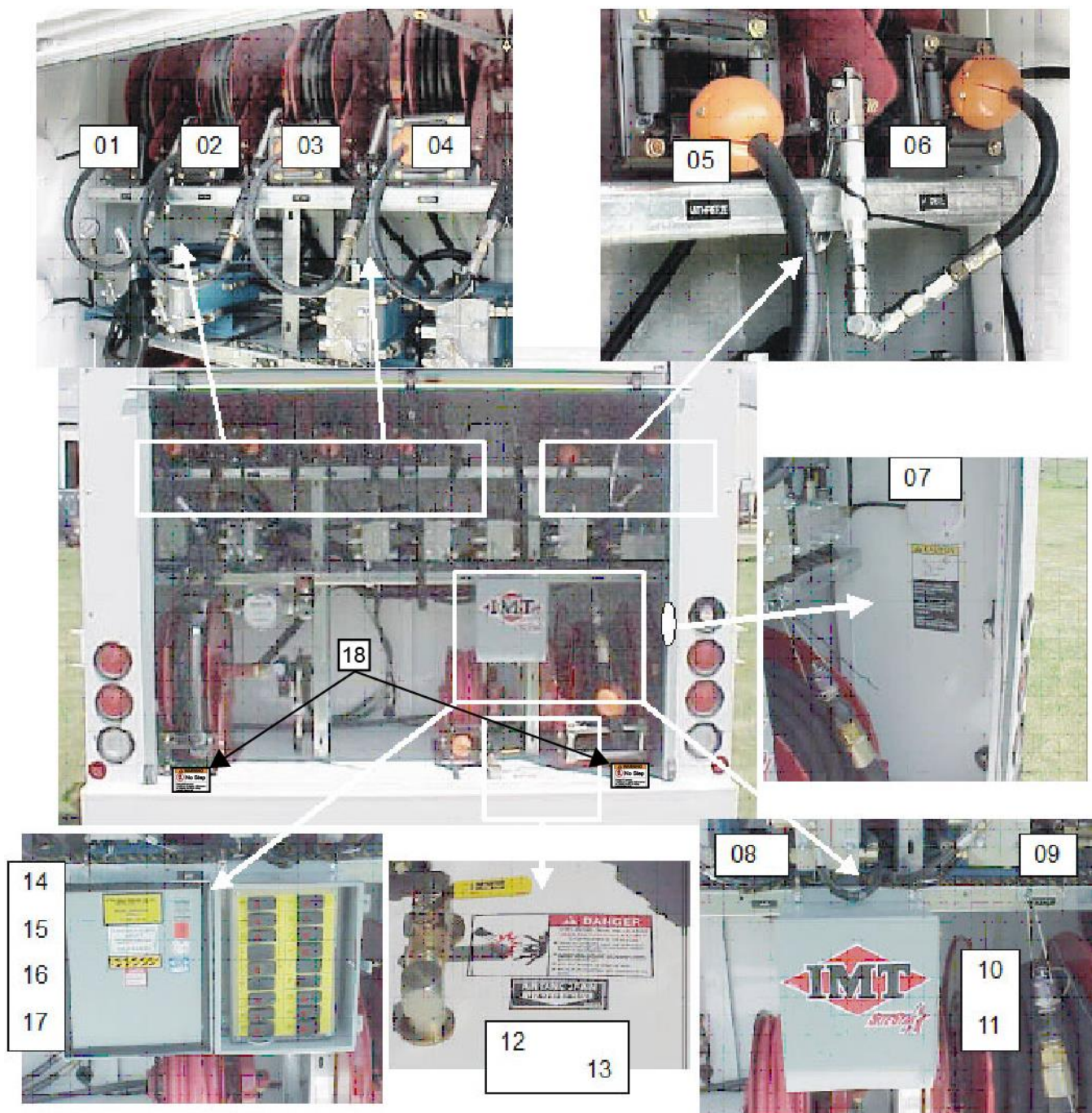
70039057 (4REF)
BOTH SIDES

DECAL PLACEMENT (2 OF 5)

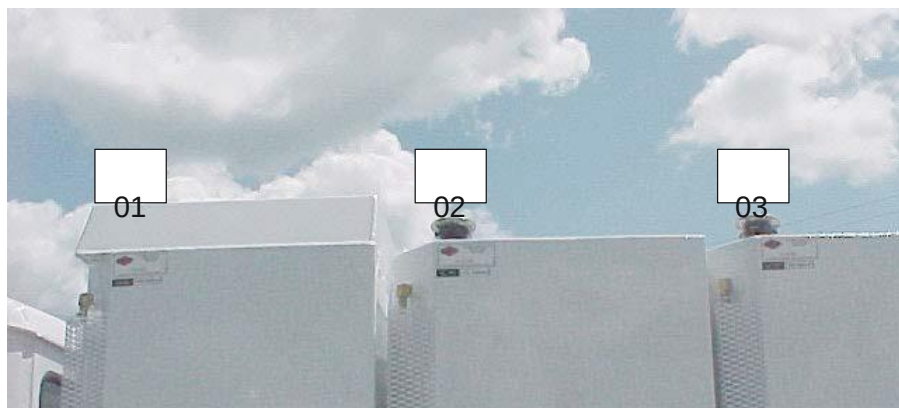
1. 70392986
2. 70392987
3. 70392988
4. 70392989
5. 70393050
6. 70392995

7. 70394624
8. 70392994
9. 70392993
10. 70392887
11. 70393670
12. 71393886

13. 70319601
14. 70393249
15. 70392982
16. 70392965
17. 70392213
18. 70399191



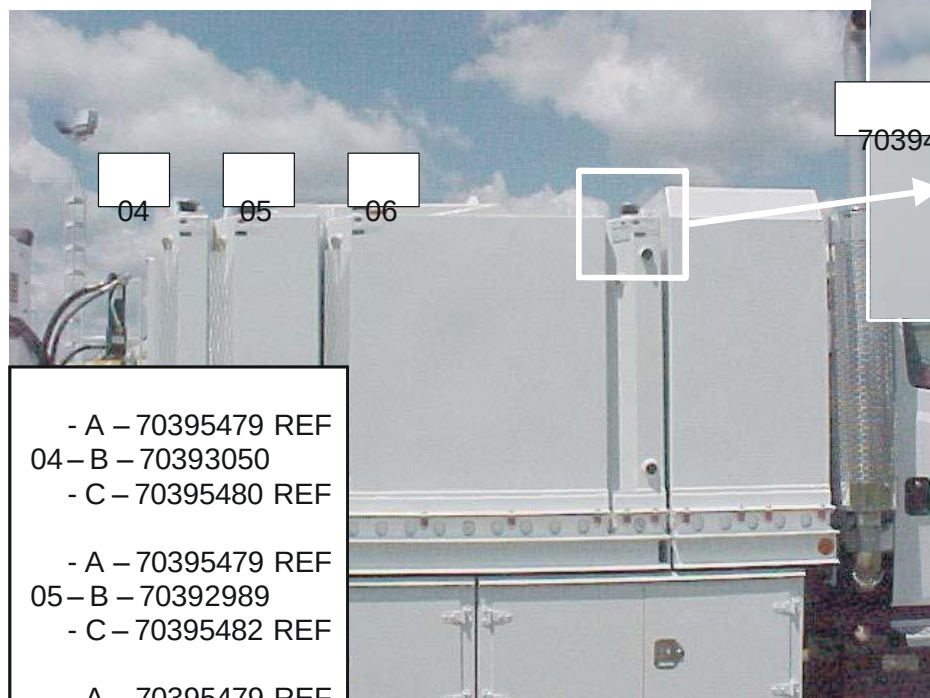
DECAL PLACEMENT (3 OF 5)



- A – 70395479 REF
 01 – B – 70393056
 - C – 70395487 REF

- A – 70395479 REF
 02 – B – 70392988
 - C – 70395483 REF

- A – 70395479 REF
 03 – B – 70392987
 - C – 70395482 REF



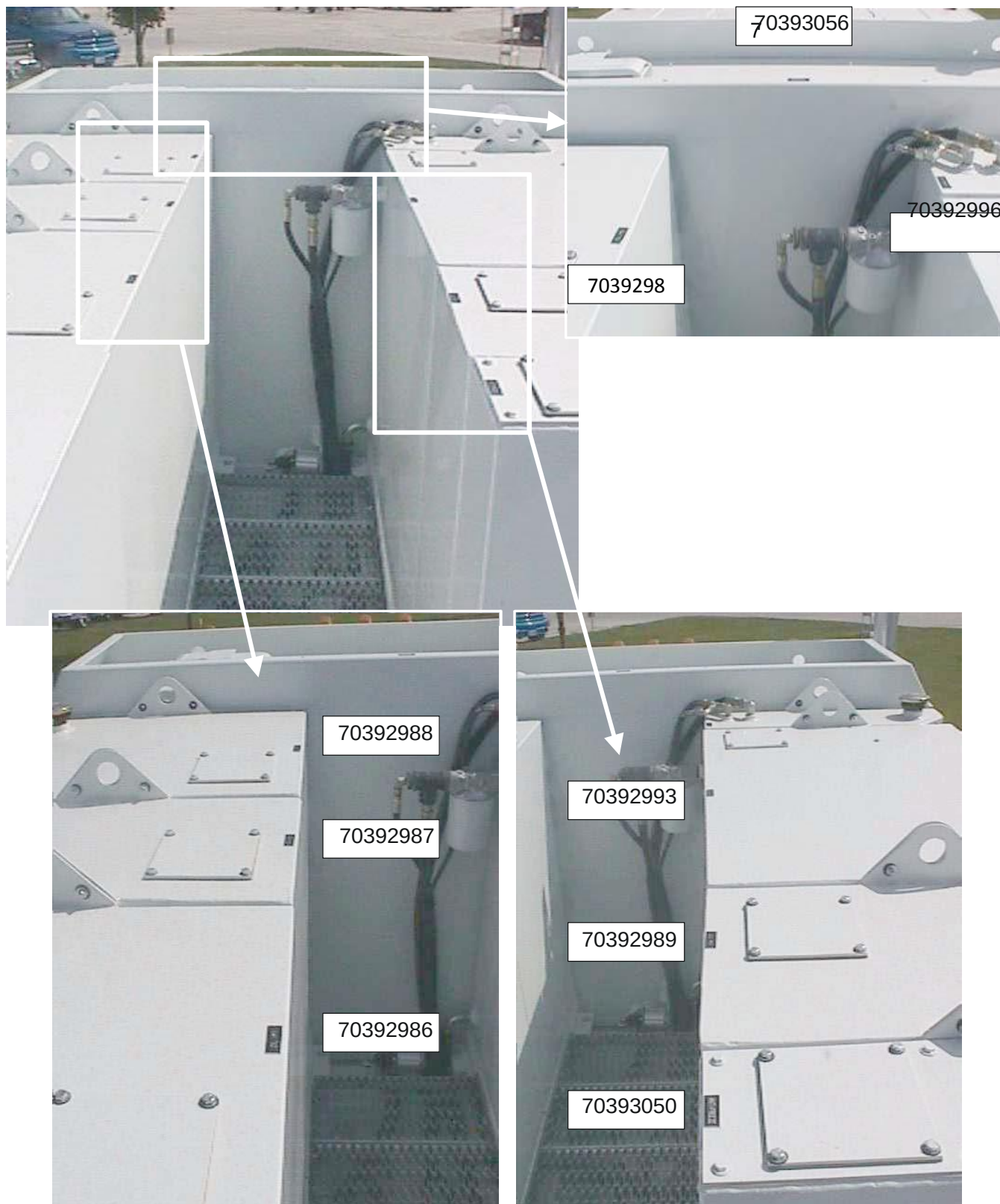
- A – 70395479 REF
 04 – B – 70393050
 - C – 70395480 REF

- A – 70395479 REF
 05 – B – 70392989
 - C – 70395482 REF

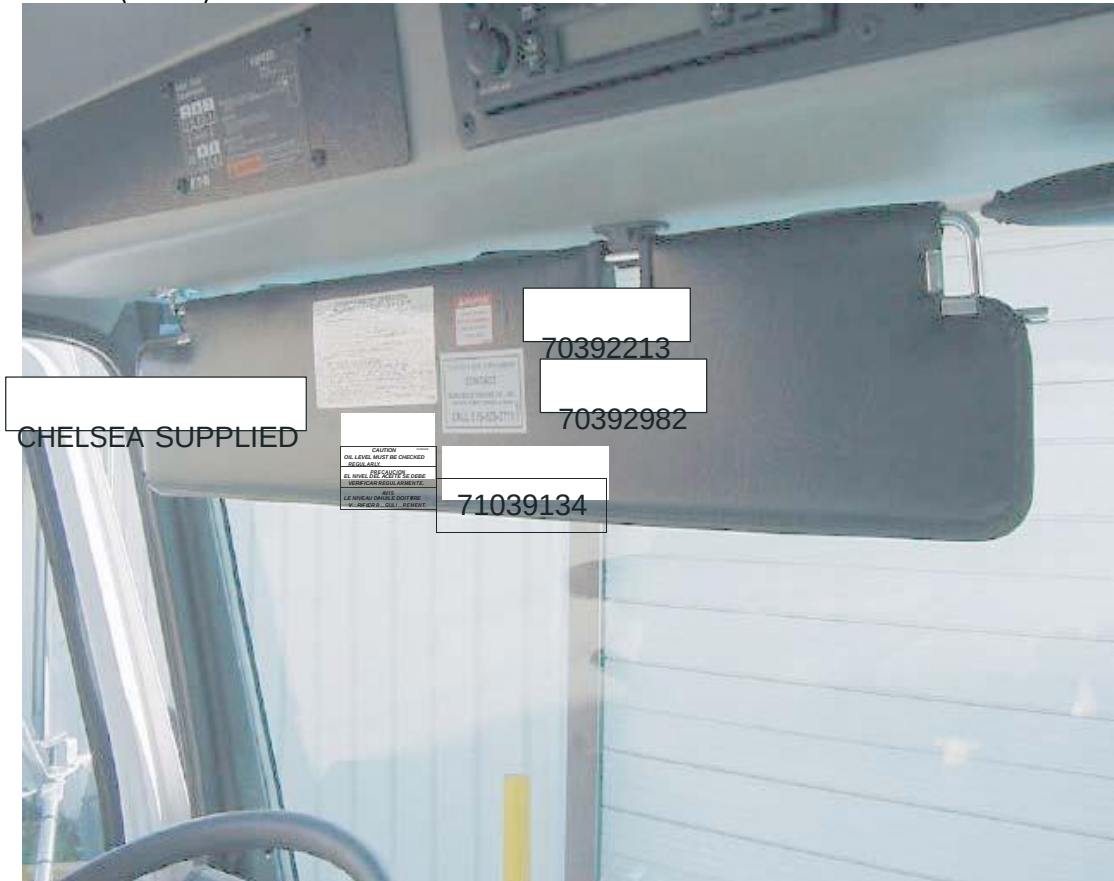
- A – 70395479 REF
 06 – B – 70392993
 - C – 70395485 REF



DECAL PLACEMENT (4 OF 5)



DECAL PLACEMENT (5 OF 5)



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

NOTES

This image shows a full page of blank, lined paper. It features approximately 30 evenly spaced horizontal black lines running across the width of the page. The lines are thin and consistent in thickness. There is no handwriting or other markings on the paper.

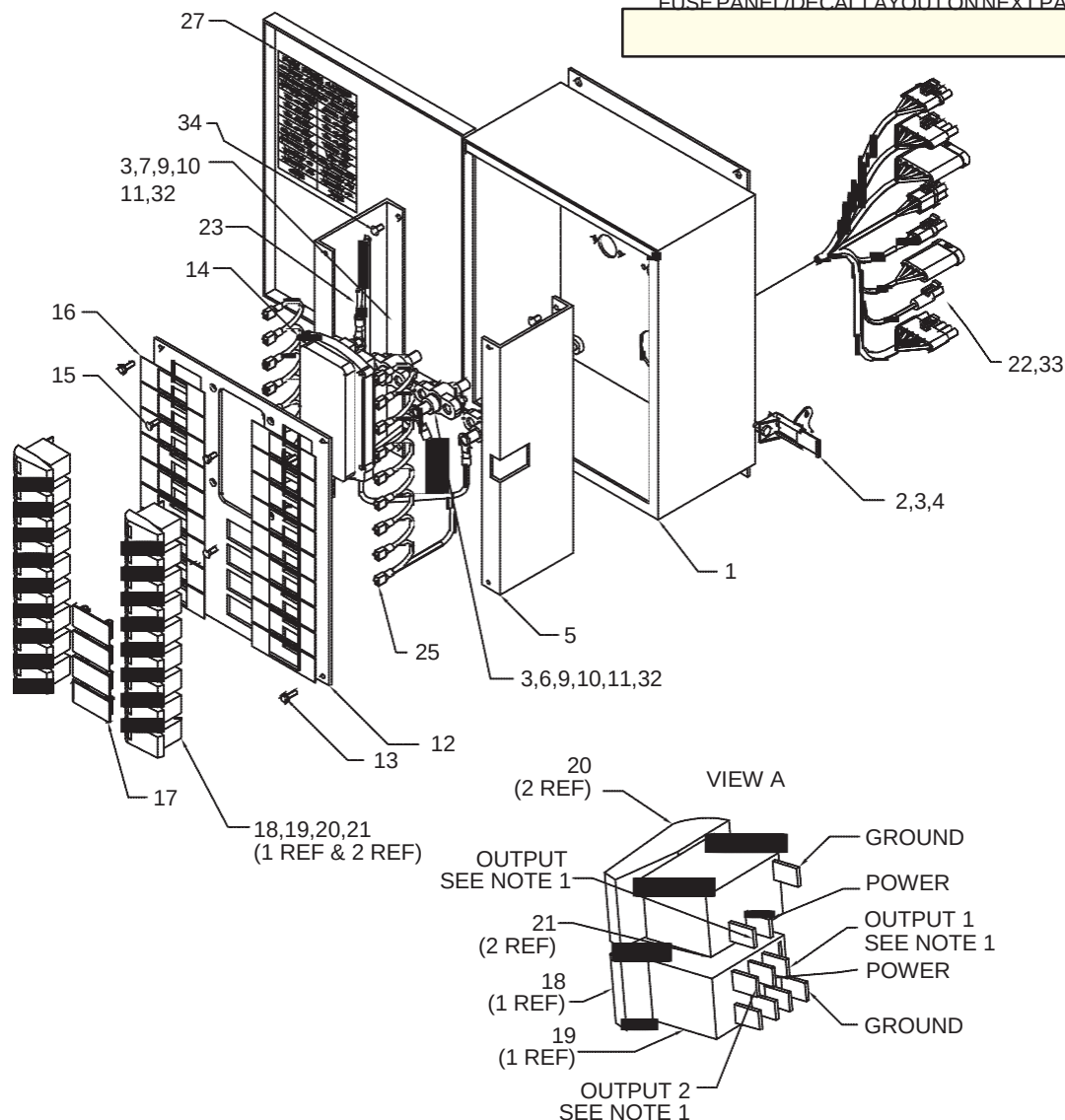
ELECTRICAL CONTROL BOX ASM (51717257-1)

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	8
4.	72062123	NUT-SS #10-24	2
5.	60250861	MOUNTING BRACKET	2
6.	70145959	STUD	1
7.	70145888	STUD	2
9.	72062106	NUT #10-24 HEX	6
10.	72063000	WASHER 0.19 FLAT (WAS 72063123)	6
11.	72062002	NUT 3/8-16 HEX (WAS 72062003 QTY 3)	8
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
32.	72063002	WASHER 5/16 FLAT	6
33.	77441136	CONNECTOR	1
34.	72060835	SCREW, SELF-TAP #8-18X3/4 HHZINC	4

(NOTE: ITEMS 32-35 ADDED REV. B)

FUSE PANEL/DECAL LAYOUT ON NEXT PAGE



Note:

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 this harness may differ from drawing.
2. The fused power wire from the 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

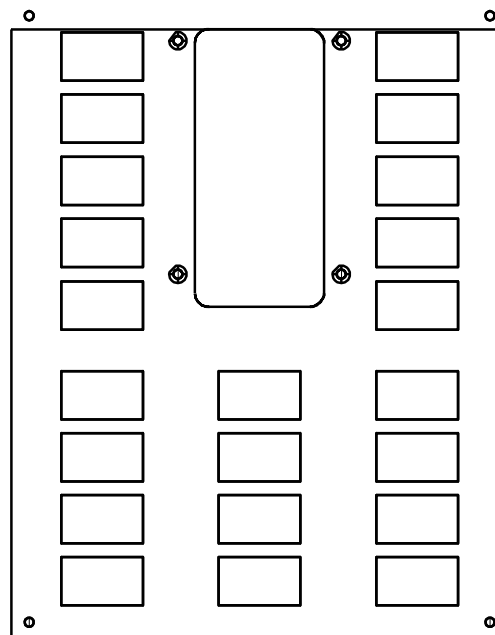
the push-on terminal to the appropriate switch.

ELECTRICAL CONTROL BOX -PANEL LAYOUT (51717257-2)

- US - PAN LAY UI	
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	FRONT LIGHTS - 15A
SPARE	SPARE

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

PARTS LIST ON PREVIOUS PAGE.



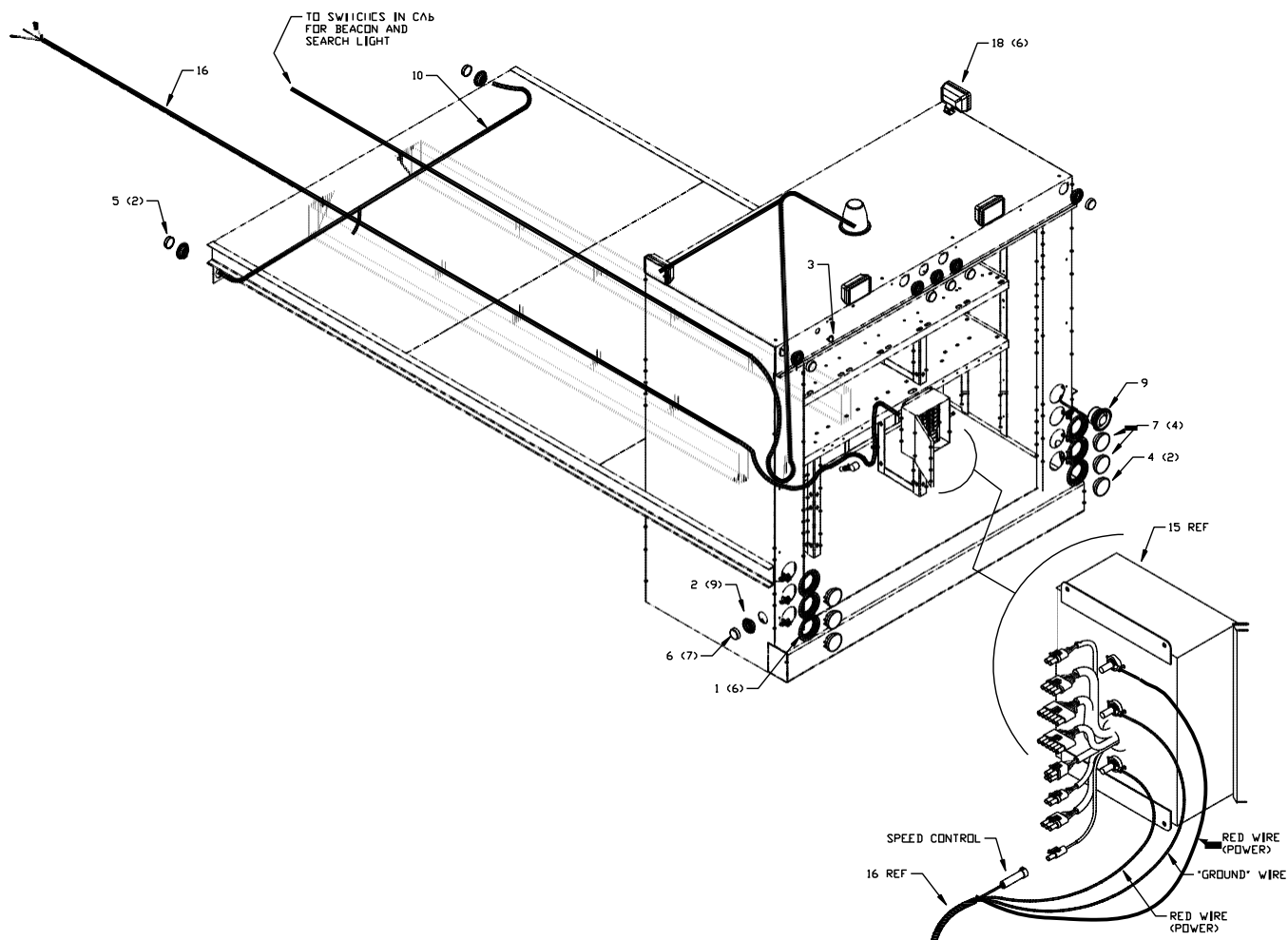
SWITCH PANEL

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.

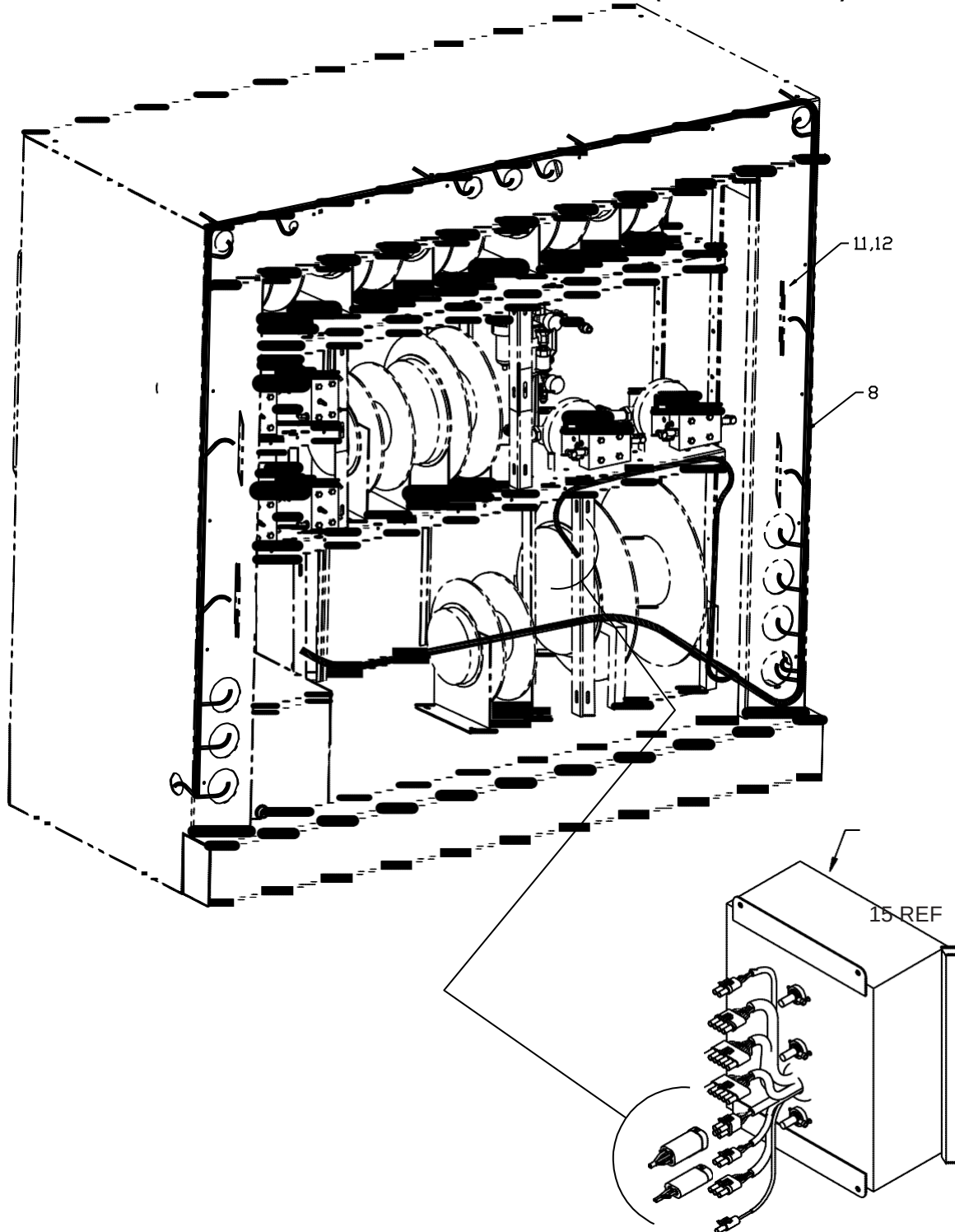
HARNESS-TRUCK LIGHT/COMPT LIGHT 1 OF 2 (EFF: 12-2000)

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-MAIN POWER	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

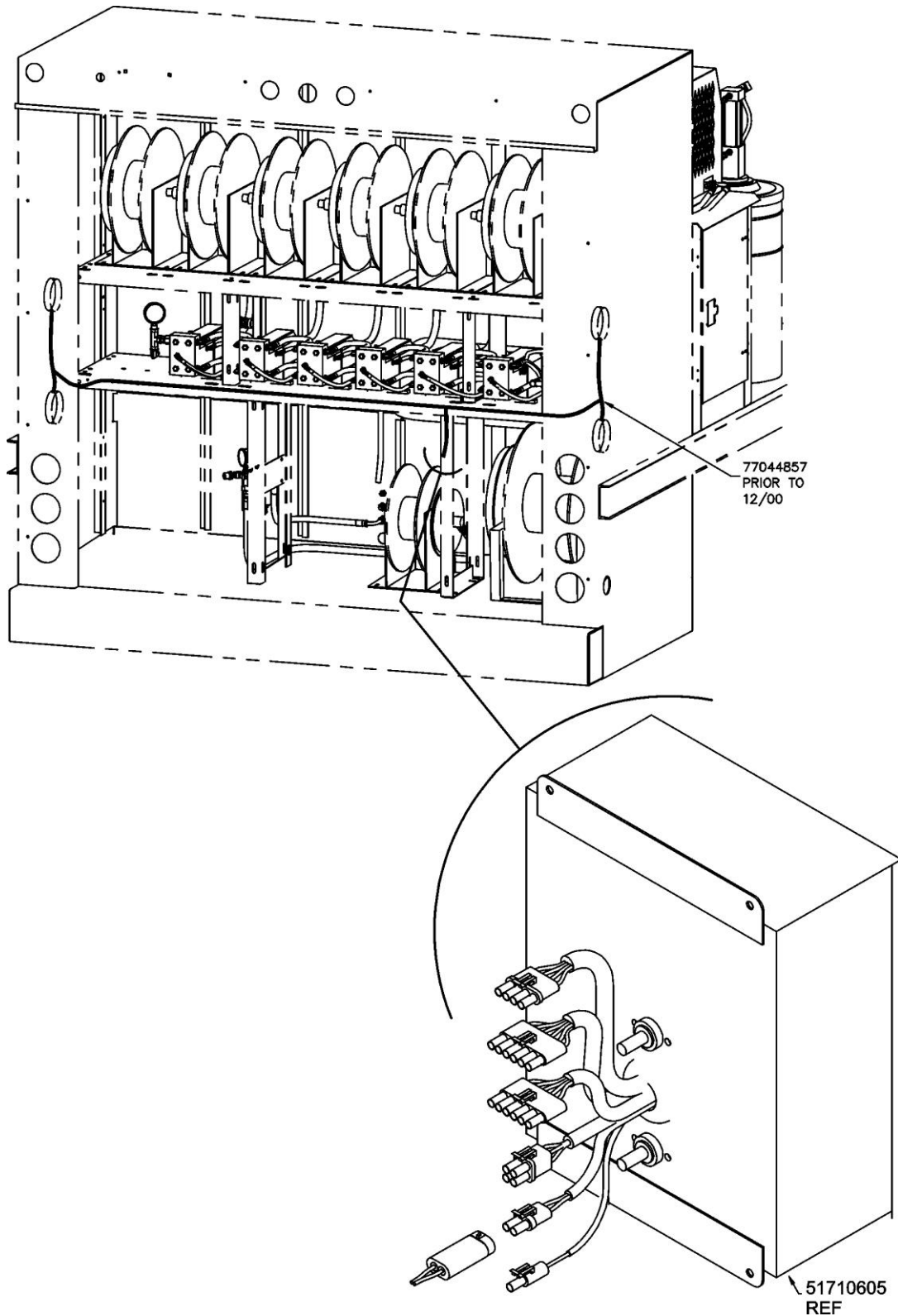


ITEM 13-RELAY
 86-FUSED IGN CIRCUIT
 85-GROUND (-)
 30-12V PWR (+) FROM BATTERY
 87-RED WIRE FROM 77441033 HARNESS

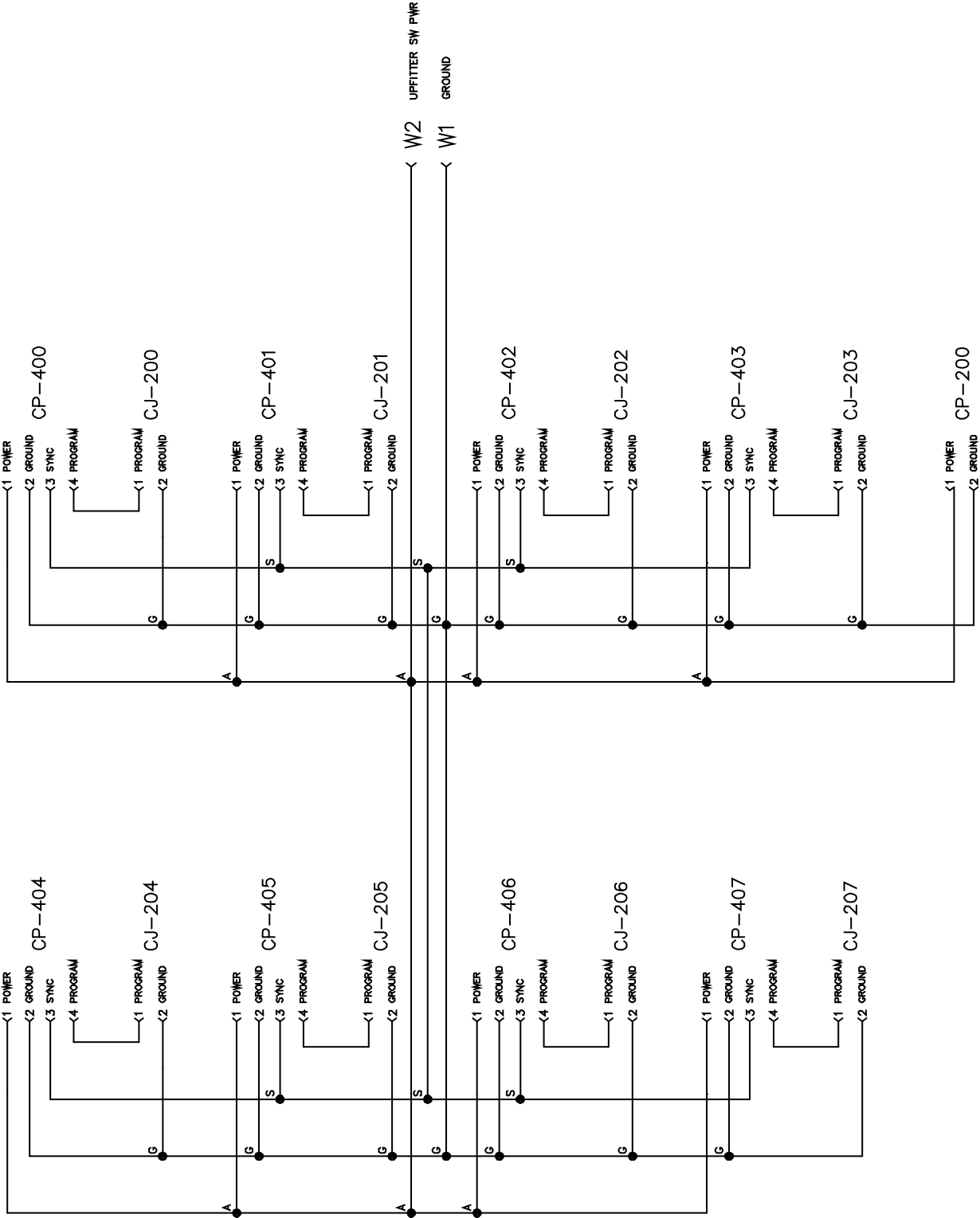
CONTINUED ON FOLLOWING PAGE

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

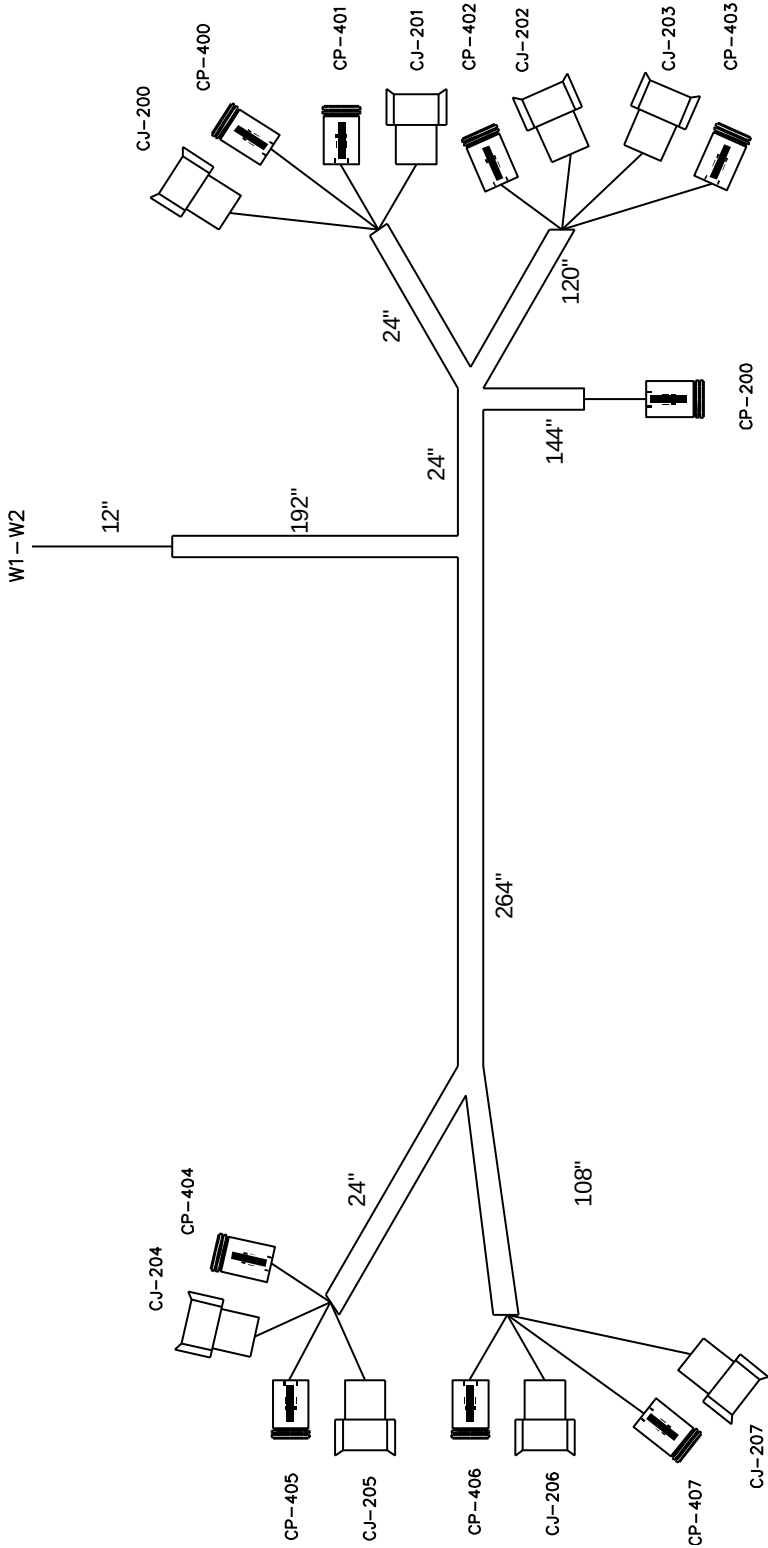
HARNESS-COMPT LIGHT (PRE: 12- 2000)



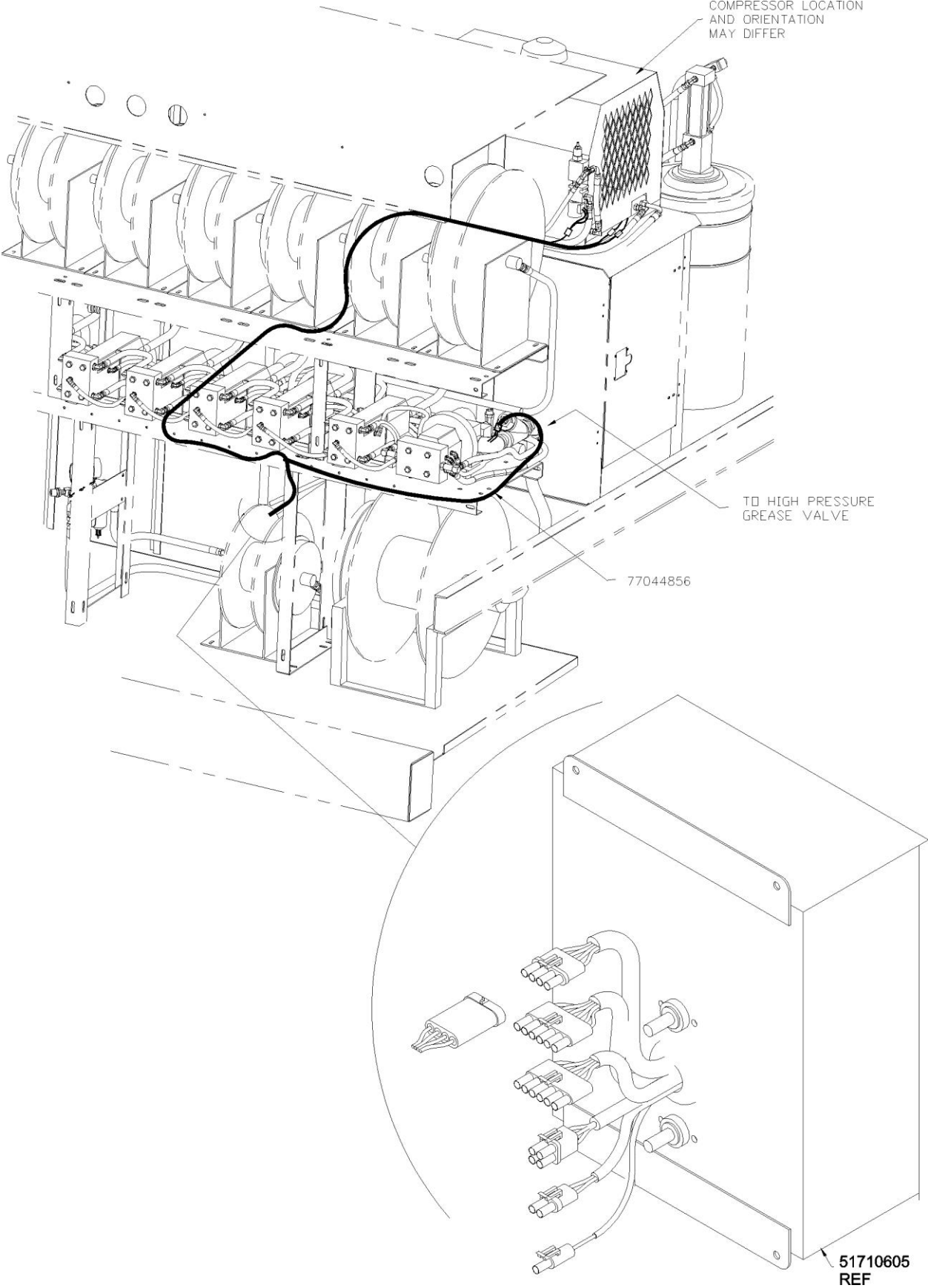
Harness-Lube Beacon w/8 Strobes (77441701)



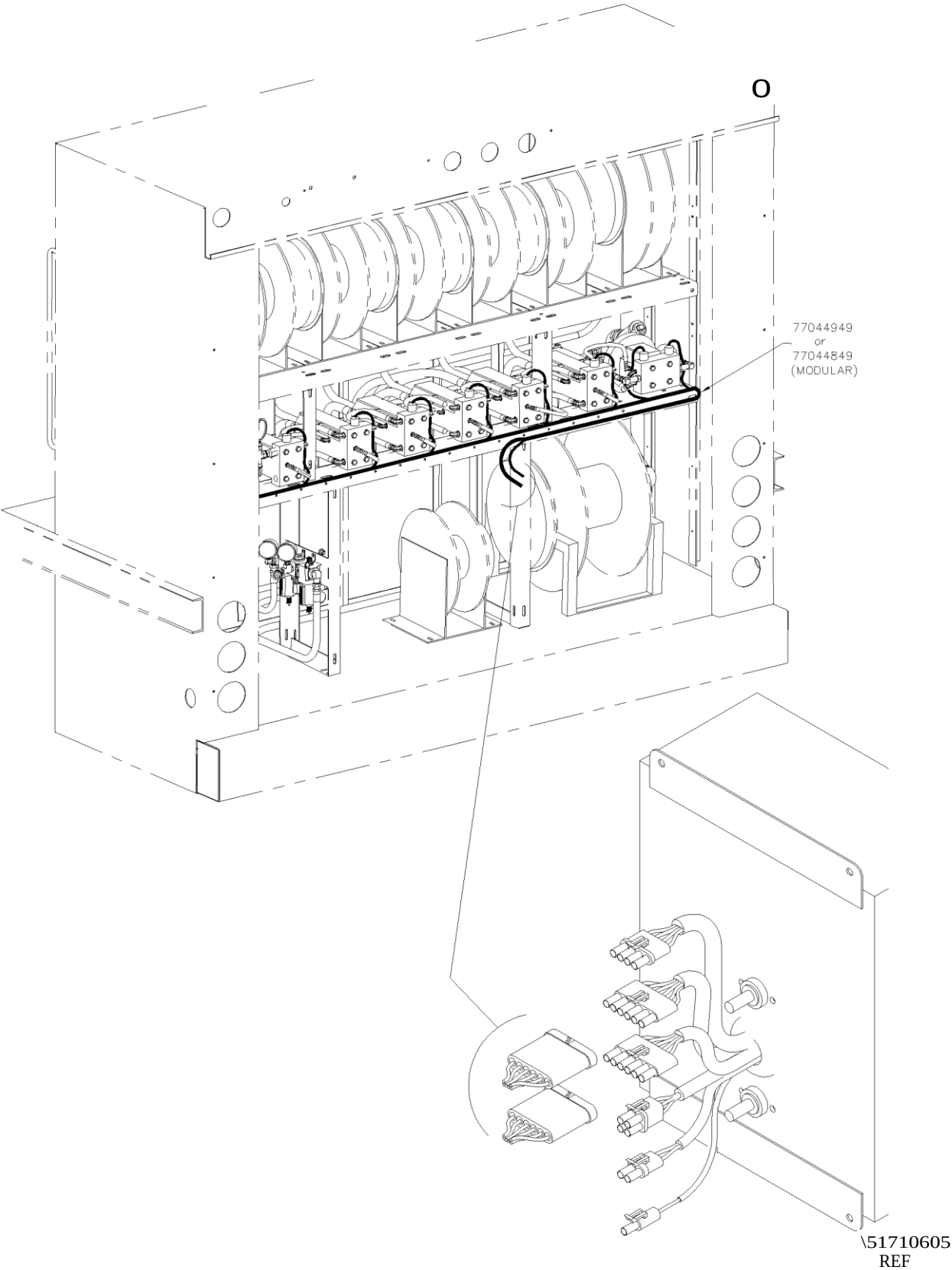
77441701-1



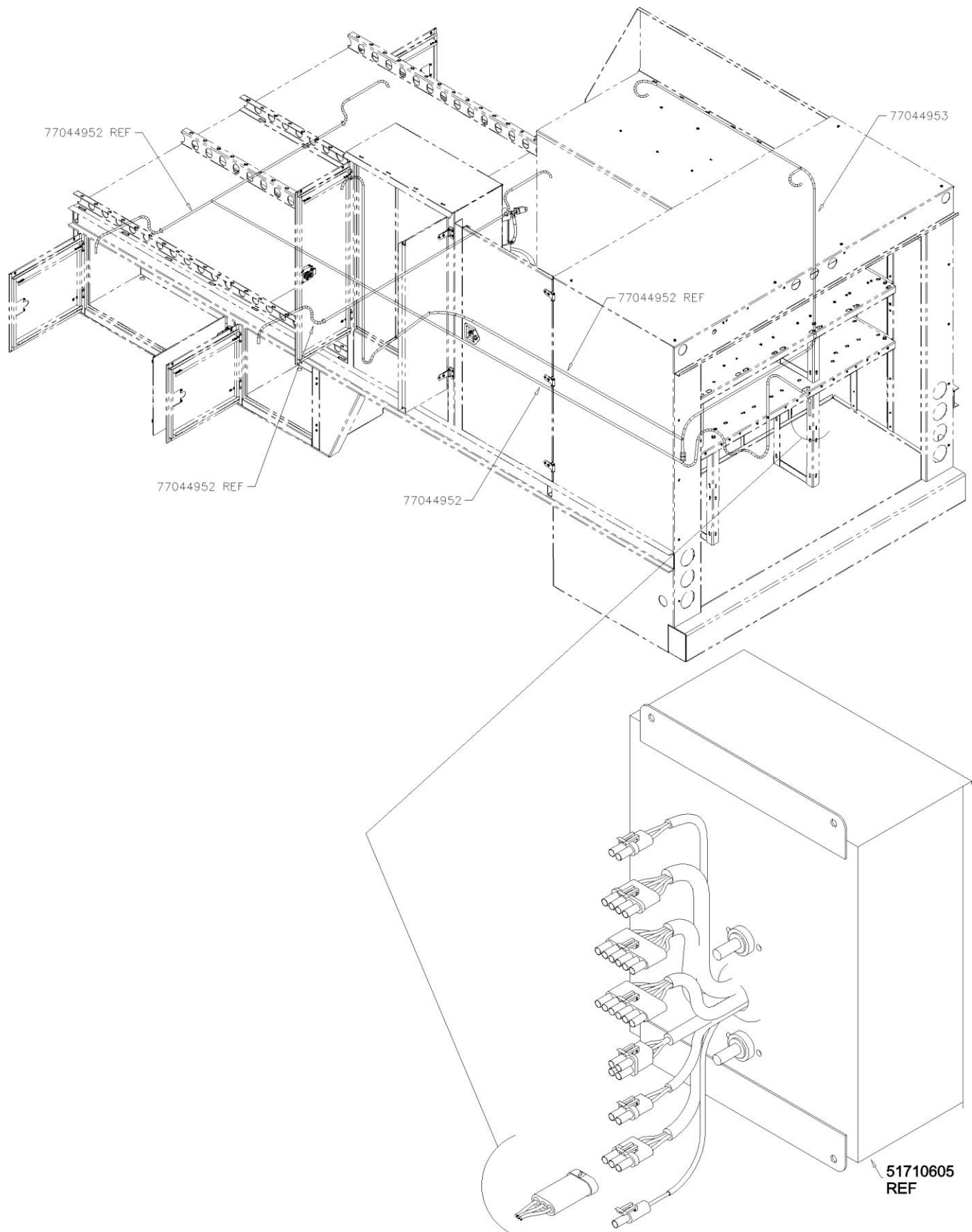
HARNESS-COMPRESSOR / GREASE



HARNESS-PUMP



HARNESS-UNDERBODY TOOLBOX & FILTER COMPT



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
15.	73054583	RELIEF VALVE	1*
16.	70143516	VALVE BODY, 8 PORTS	1*
17.	73540117	SOLENOID VALVE	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

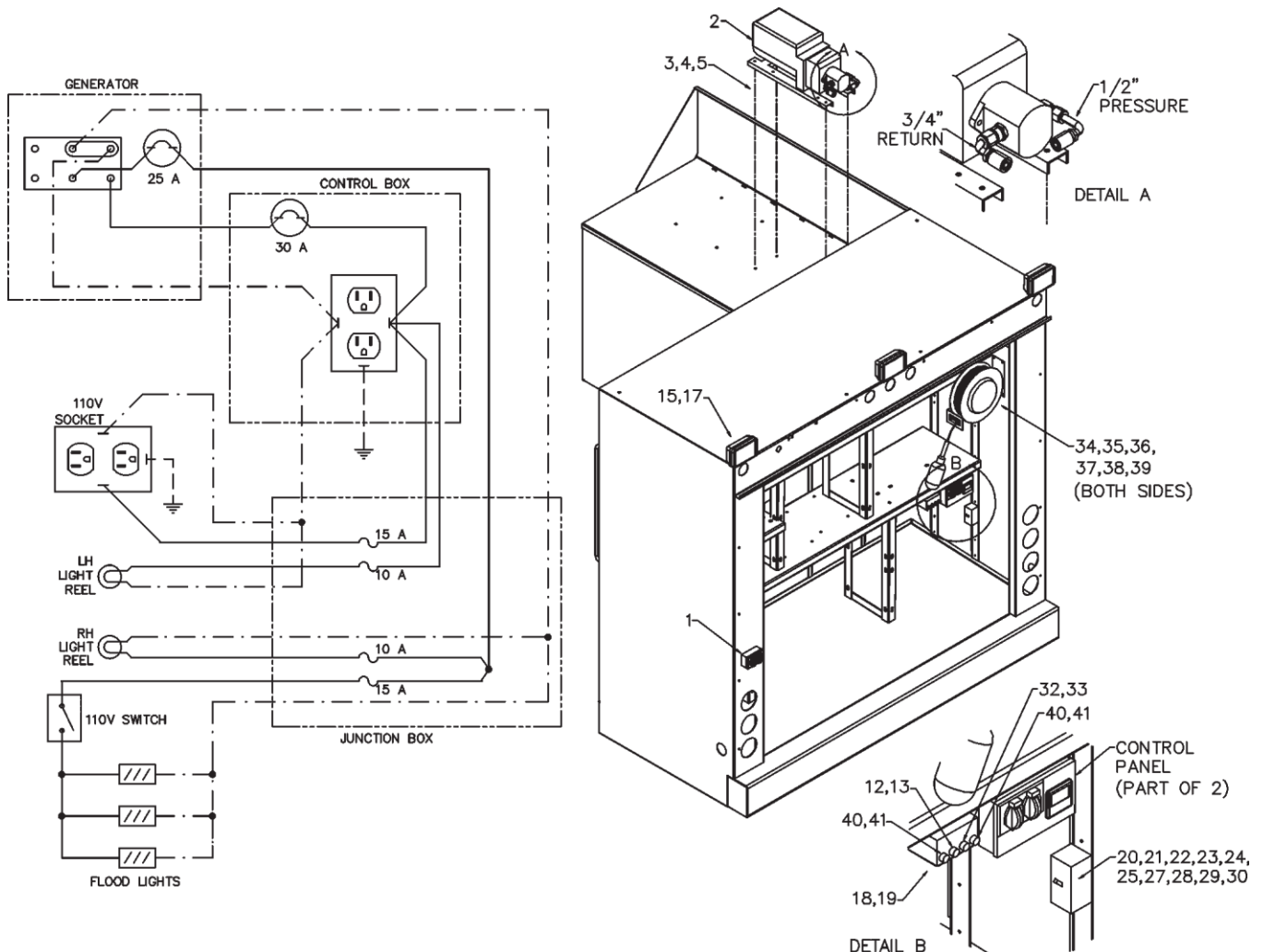
* NOT SHOWN

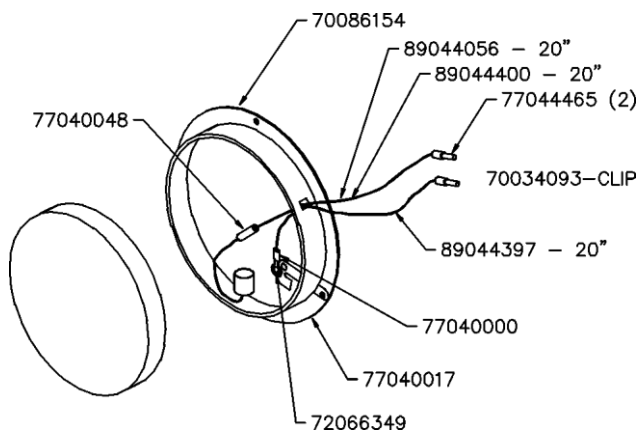
SWITCH KIT-110V (51711996)

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

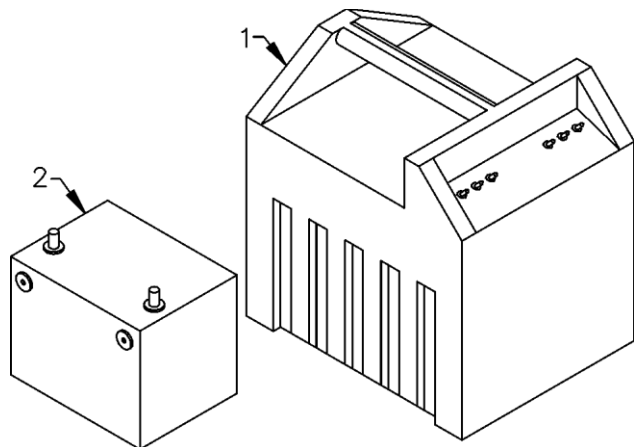
LIGHT REEL-110V (51716324)

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

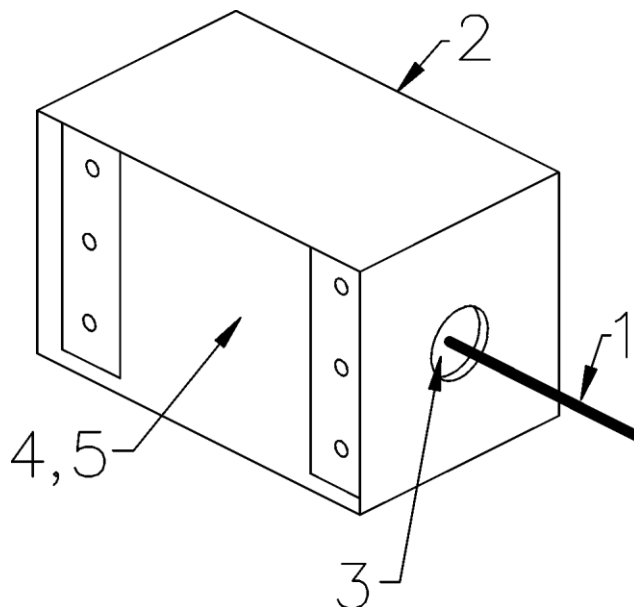


LIGHT-COMPARTMENT (51713376)**TRAILER TESTER ASM (51716085)**

- | | | | |
|----|----------|----------------|---|
| 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 |



Protective Sleeve Installation (70034573)



Step 1: Place the protective sleeve under the fuse holder, centering the holder with the protective sleeve.



Step 2: Securely wrap the two ends of the protective sleeve together making sure velcro is sealed on the top side of the front jumpstart plug holder.



Step 3: Securely zip tie both ends of the protective sleeve.

WARNING

For trucks without a battery disconnect switch, to prevent accidental vehicle start-up, which could cause death or serious injury, disconnect battery cables (negative cable first) before proceeding. Disconnect negative (-) battery cable first, if positive (+) cable should contact ground with negative (-) cable connected, the resulting sparks can cause a battery explosion, which could result in death or serious injury.

AMG FUSE HOLDERS REQUIRING PROTECTIVE SLEEVE	
PART NO.	DESCRIPTION
7704153	FUSE HOLDER-AMG 1 POS W-COVER HMG-221
7744116	FUSE HOLDER-AMG 1 POS W-COVER FMG-211
7704074	FUSE HOLDER-AMG AND MEGA 500AMP W/COVER

CAUTION

AVOID POSSIBLE FIRE!

Visually inspect and verify no other fuse holder posts are coming in contact with the chassis. The contact of a fuse to a grounded structure can cause a potentially dangerous short circuit. Failure to inspect and verify the fuse holder posts could result in a fire.

SAFETY NOTICE

Use appropriate Personal Protective Equipment (PPE) as required by your company. Read and understand the following instructions found within this document prior to starting work on the chassis.

SAFETY NOTICE

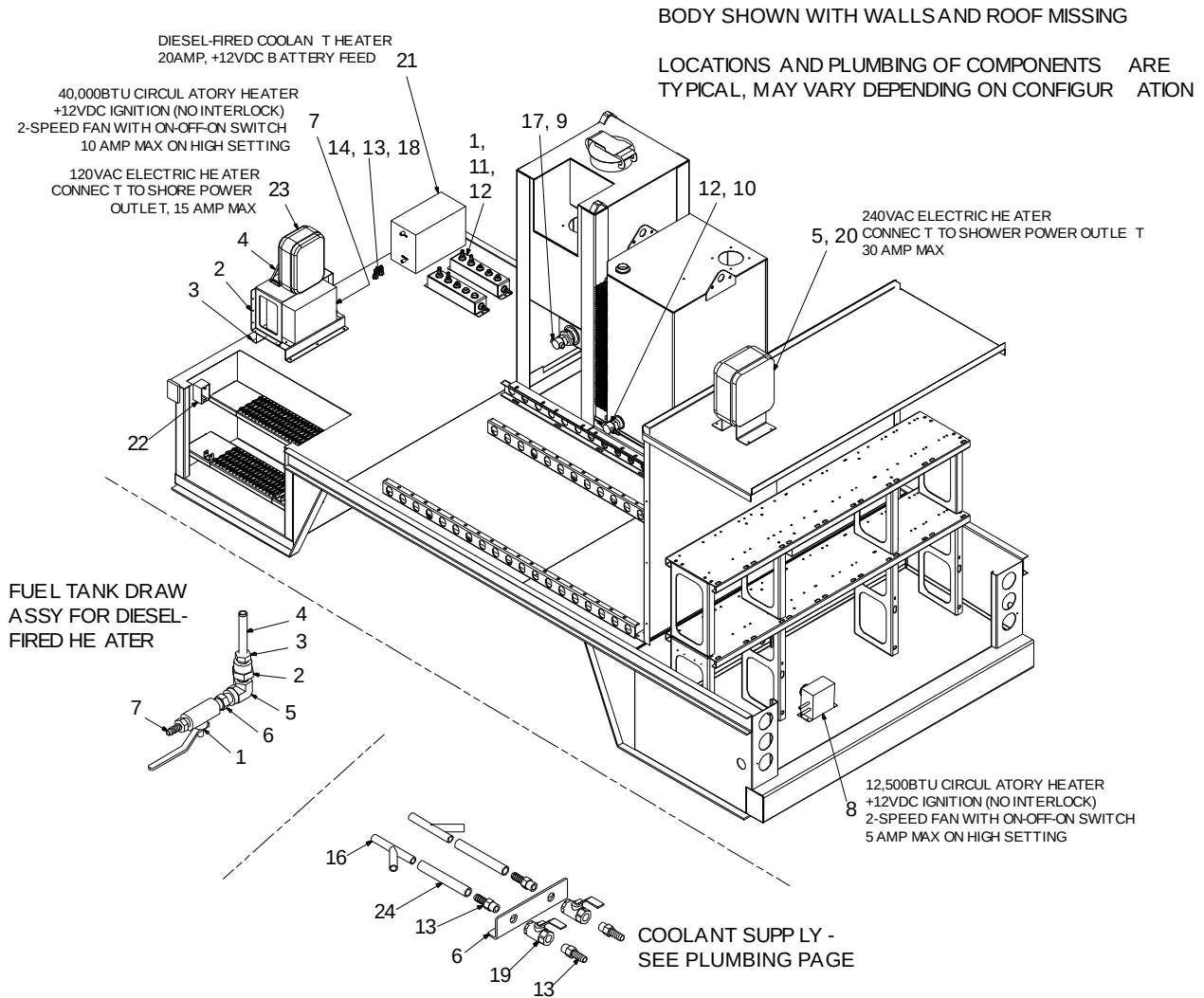
Follow your company's Lock-Out/Tag-Out procedures to prevent the truck from being started or moved while performing work on this crane. If your company does not have a Lock-Out/Tag-Out procedure, follow OSHA 1910.147, Lock-Out/Tag-Out.

TYPICAL HEATER INSTALLATION (99905653)	4-1
FOUR TANK HEATERS WIRING DIAGRAM (99904156-1).....	4-4
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GENERATOR/OUTLET WIRING SCHEMATIC (99904156-3)	4-6
GENERATOR ONLY WIRING SCHEMATIC (99904156-4)	4-7
OUTLET ONLY SCHEMATIC (99904156-5)	4-8
TANK HEATER CONTROL BOX (EFF. 2008) (99904337-1)	4-9
TANK HEATER SYSTEM (EFF. 2008) (99904337-2)	4-10
TANK HEATER GUARD (EFF. 2008) (99904337-3)	4-11
POLYETHYLENE TANK HEATER CONTROL BOX (THRU 2007) (99904160-1).....	4-13
POLYETHYLENE TANK HEATER (THRU 2007) 99904160-2).....	4-15

NOTES

[illegible]

TYPICAL HEATER INSTALLATION (99905653)



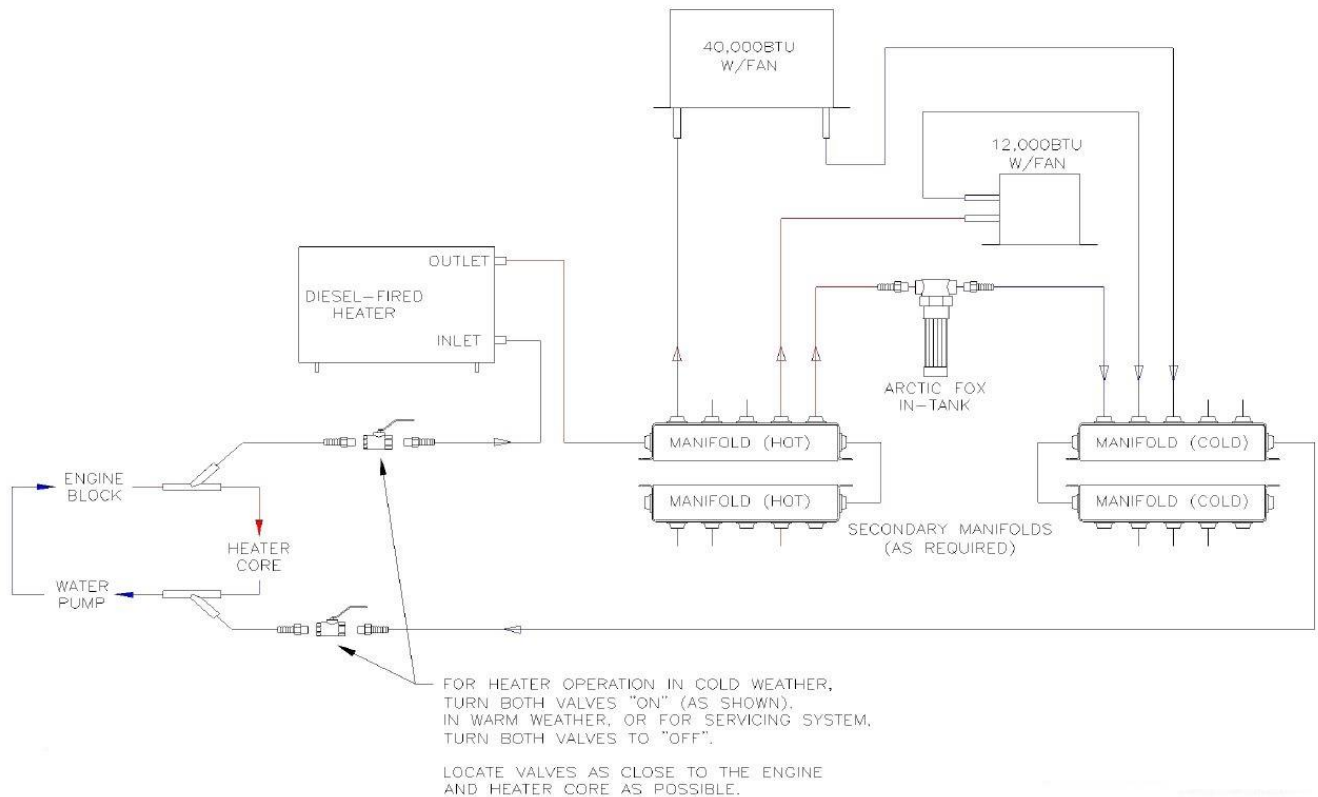
99905653 PARTS LIST

ITEM	PART #	DESCRIPTION	QUANTITY
1.	52722085	MANIFOLD-WLDMT DOM WITH LUBE	2
2.	60136022	BRACKET-HEATER 120V LUBE	1
3.	60137101	BRACKET-HEATER LUBE 3.00 RISER	1
4.	60140553	BRACKET-HEATER LUBE 77734542	2
5.	60250562	MTG BRKT-HEATER 240V LUBE SHELF	2
6.	60251664	BRACKET-BALL VALVE DUAL	1
7.	70073278	HEATER-42000 BTU12V 2062A000A	1
8.	70073279	HEATER-12000 BTU 12V 455H-12V	1
9.	70734451	HEATER-ARCTIC FOX 8in NPT MOUNT 2in	1
10.	70734506	HEATER-ARCTIC FOX 16in NPT MOUNT 2in	1
11.	72053415	PLUG-PIPE SQ HD STL .75	A/R

99905653 PARTS LIST

ITEM	PART #	DESCRIPTION	QUANTITY
12.	72053458	NIPPLE-BARB BRS .75MPT .75	A/R
13.	72531545	NIPPLE-BARB BRS .50MPT .62	A/R
14.	72531547	NIPPLE-BRS BARB .50MPT .75	A/R
15.	72532340	TANK FLANGE 2.00	1
16.	72532717	Y-HOSE 5/8in ADAPTER	2
17.	72533061	REDUCER BUSH-BLK 3.00-2.00	1
18.	72533140	COUPLING-BULKHEAD .50X1.50 LG	A/R
19.	73054192	VALVE-BALL .50 (STANDARD)	2
20.	77040107	HEATER-240V 17060BTU	1
21.	77040350	HEATER-DIESEL FIRED 7.5 KW ESPAR	1
22.	77044372	ELECTRICAL BOX 2X4 DEEP WELL	1
23.	77734542	HEATER-120V 5120 BTU	1
24.	89397049	HOSE-HTR .62 BLUE SILICONE	A/R
25.	89397214	HOSE-HTR .75 BLUE SILICONE	A/R

NEW 20130626



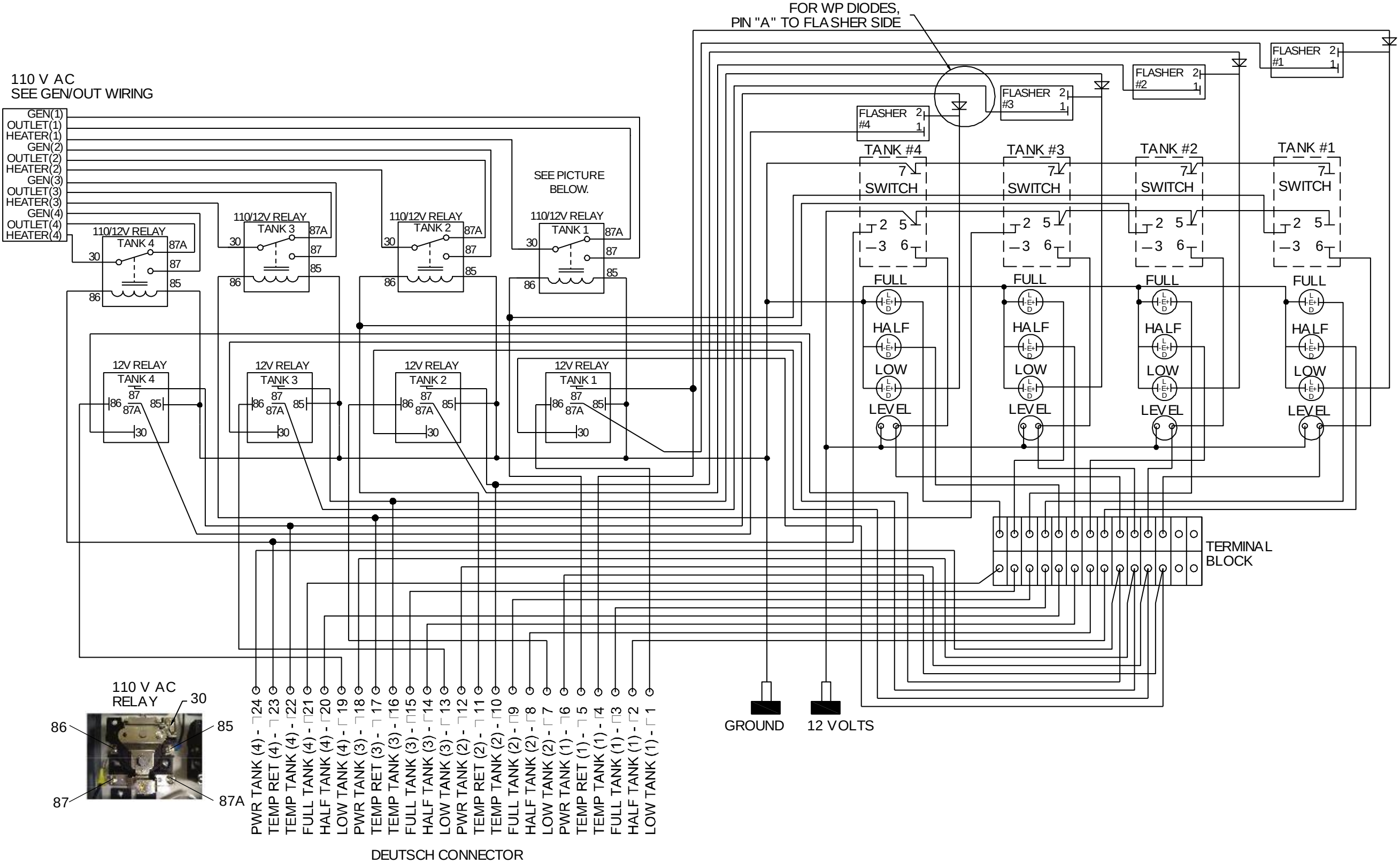
THIS DRAWING SHOWS AN EXAMPLE OF EACH TYPE OF HEATER AND ITS TYPICAL CONNECTIONS. ALL COMPONENTS ARE OPTIONAL, SO ANY COMBINATION MAY BE USED ON A PARTICULAR TRUCK.

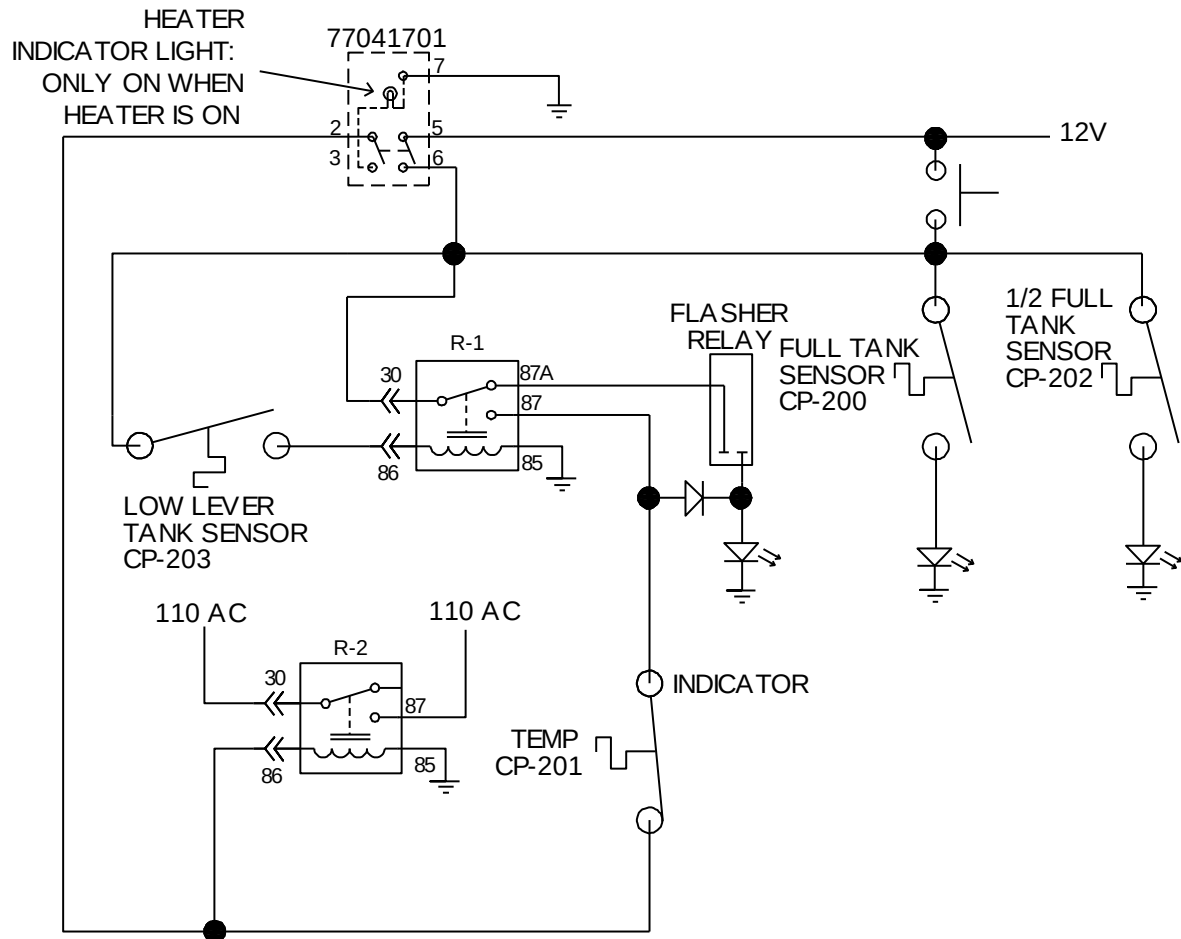
WITH A LOW NUMBER OF HEATERS, A TEE MAY BE SUBSTITUTED FOR THE MANIFOLD.

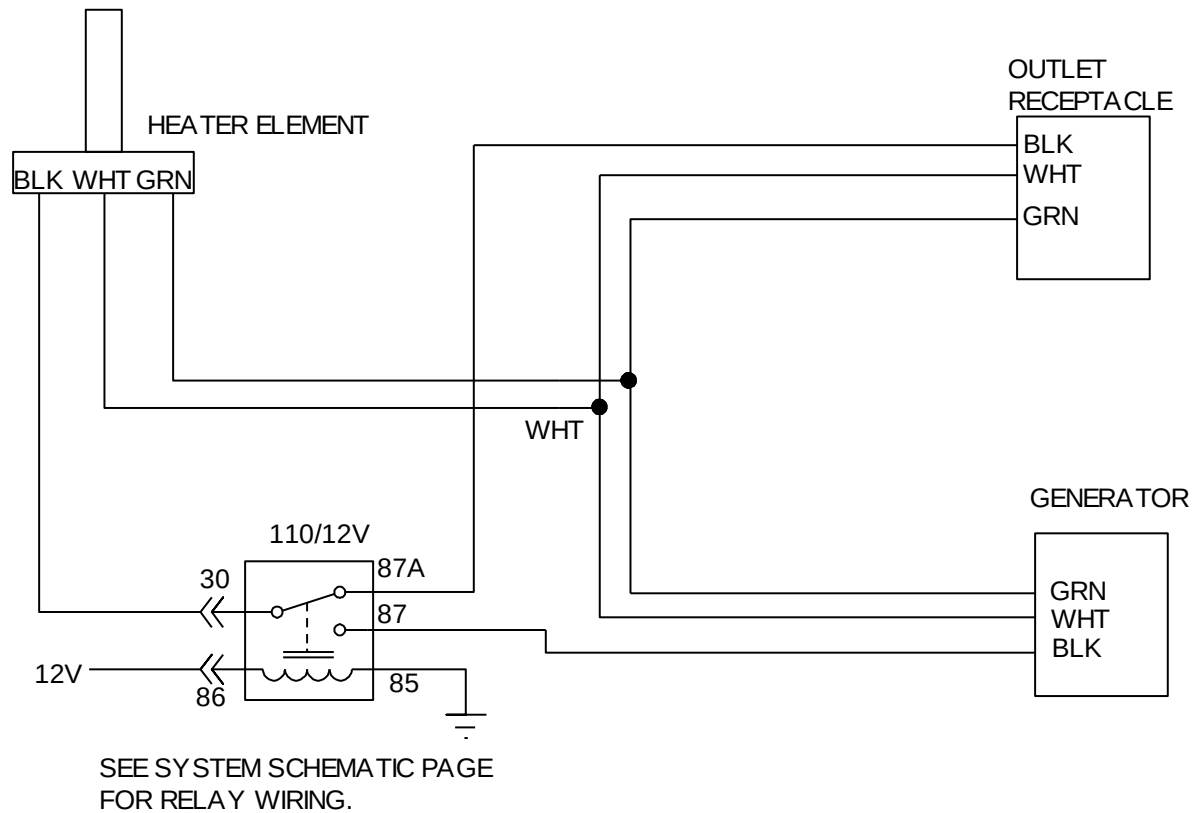
VARIOUS SIZES OF HEATER HOSE MAY BE USED. HOSEBARB ADAPTERS MAY BE REPLACED AS

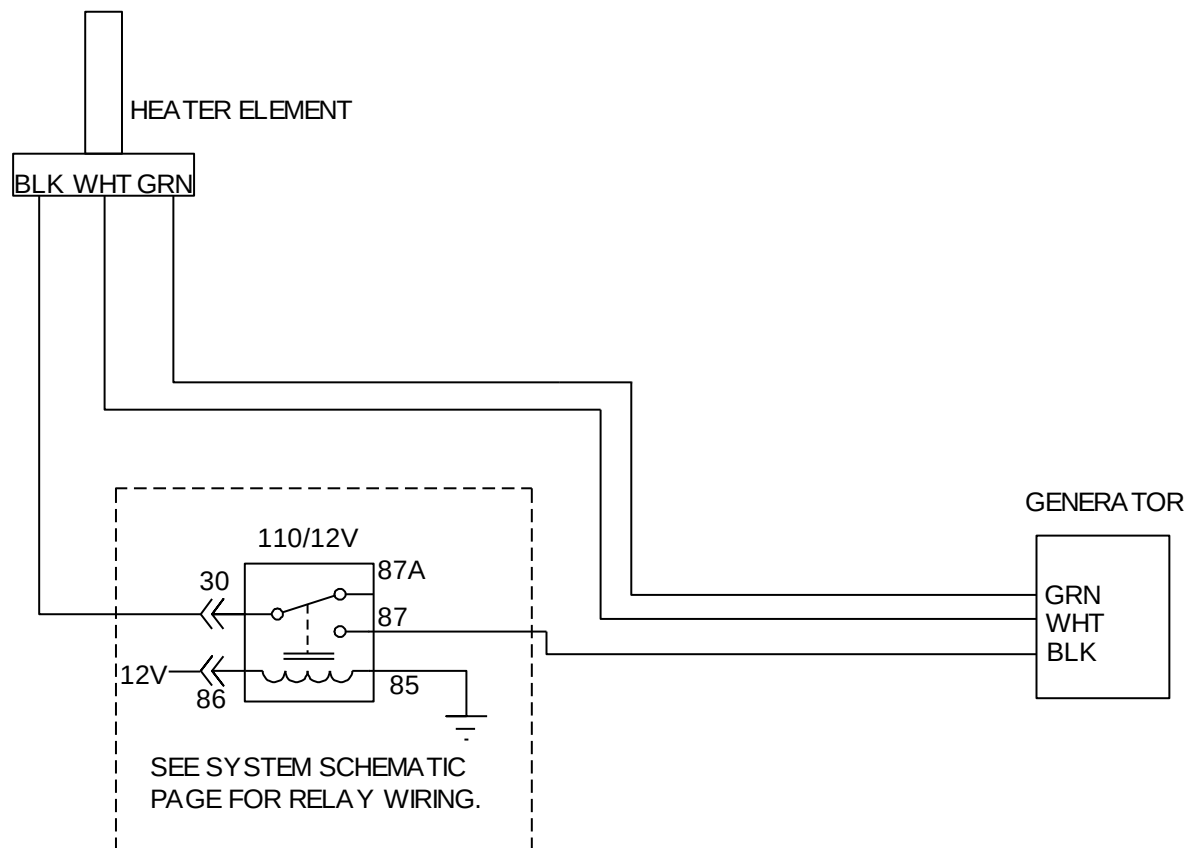
NECESSARY ON PURCHASED COMPONENTS, FOR BETTER FIT AND ORIENTATION.

FOUR TANK HEATERS WIRING DIAGRAM (99904156-1)



ONE TANK HEATER SCHEMATIC (99904156-2)

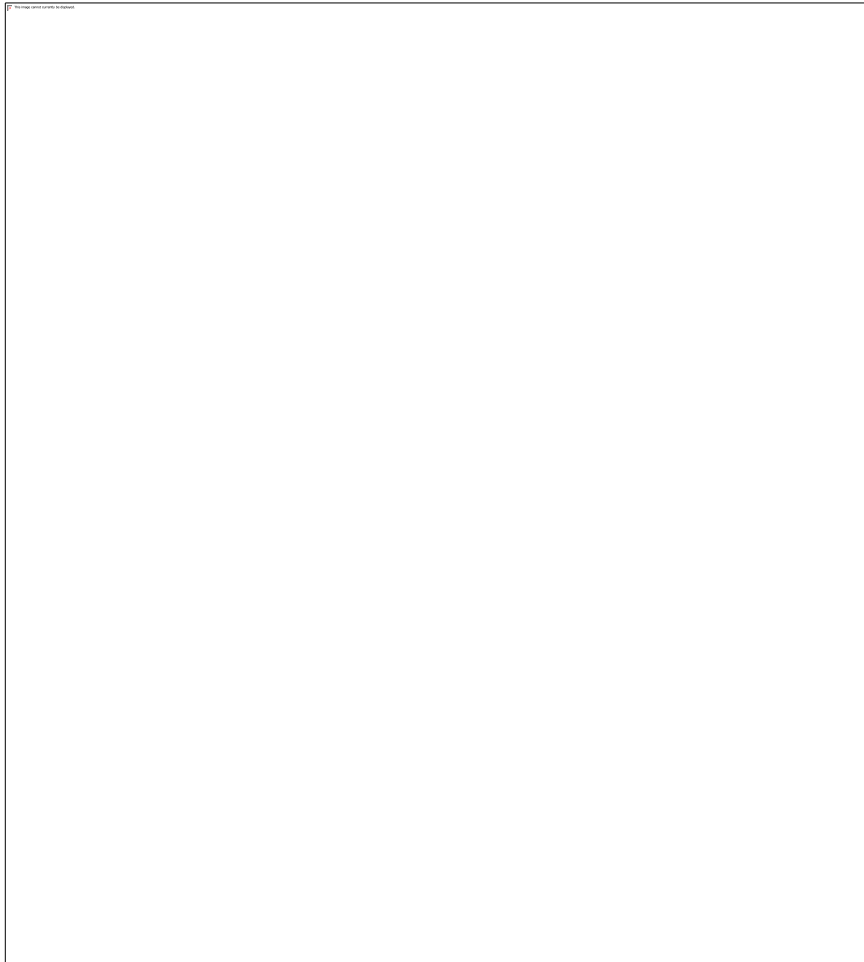
GENERATOR/OUTLET WIRING SCHEMATIC (99904156-3)

GENERATOR ONLY WIRING SCHEMATIC (99904156-4)

OUTLET ONLY SCHEMATIC (99904156-5)



TANK HEATER CONTROL BOX (Eff. 2008) (99904337-1)

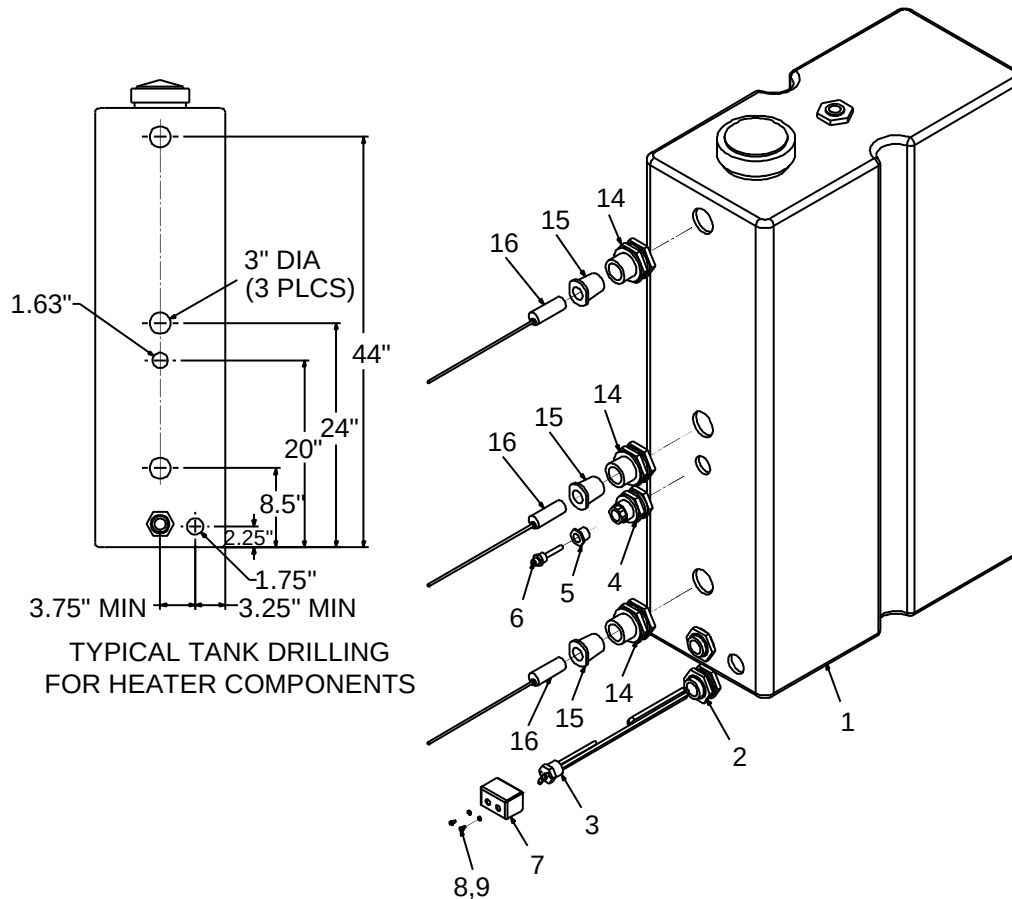


NOTE:

THE STANDARD KIT CONTAINS COMPONENTS FOR TWO TANK HEATER SYSTEMS. ADDITIONAL SYSTEMS ARE ASSEMBLED IN THE SAME MANNER.

99904337 PARTS LIST			
ITEM	PART #	DESCRIPTION	QUANTITY
1.	60397302	JIC BOX-MODIFIED SITESTAR HEATER	1
2.	60131046	BRACKET-ELECTRICAL TANK HEATER	1
3.	70734055	RELAY-10A 110VAC 12V COIL	2
4.	72060638	SCR-MACH 10-24X 1.00 RDH ZINC	4
5.	72601652	SCR-MACH .25-20X .75TRHTORXSS	8
6.	72062106	NUT 10-24 HEX NYLOCK	6
7.	72062194	NUT-SS .25-20 NYLOC	6
8.	60251253	MOUNT BRACKET-HEATER CONTROLS SITESTAR	1
9.	77041747	MODULE-SWITCH PANEL/LEVEL INDICATOR	1
10.	77044049	CONNECTOR- .75 ROMEX	1
11.	77044099	CONNECTOR- .38 ROMEX	1
REV. B 20080227			

TANK HEATER SYSTEM (Eff. 2008) (99904337-2)



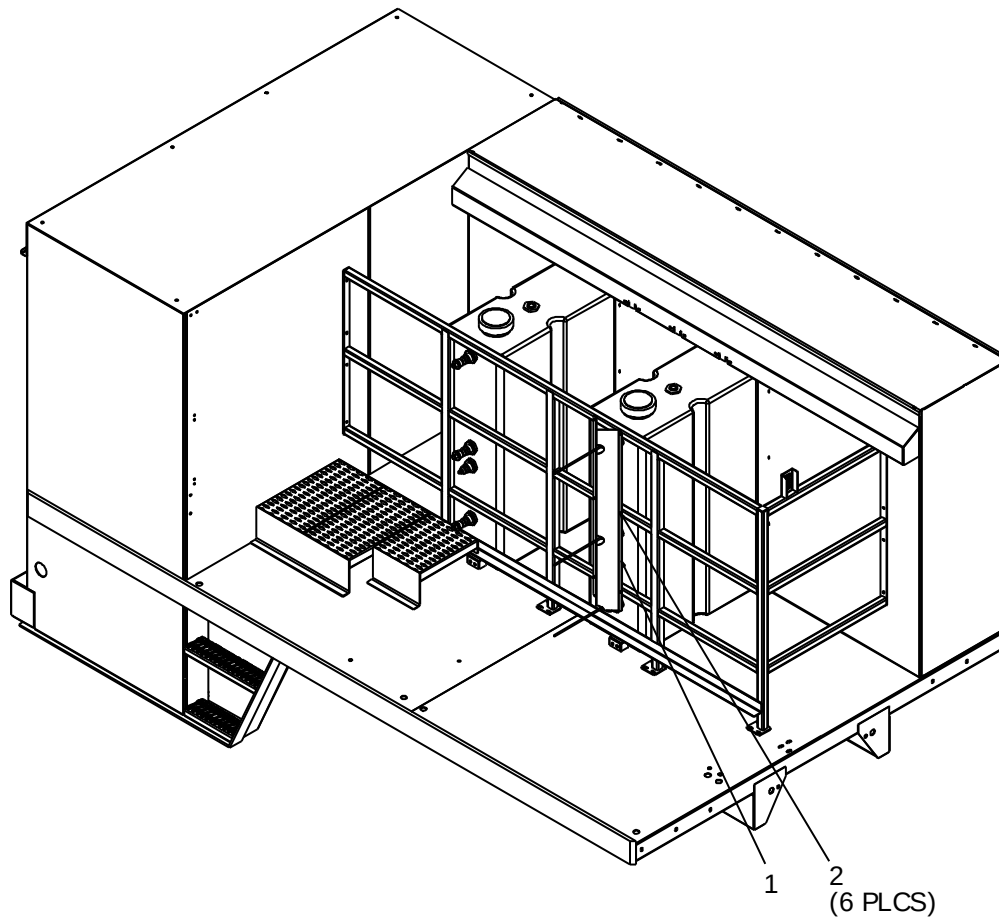
NOTE:

1 Quantities listed are per tank heater system.

99904337-2 PARTS LIST

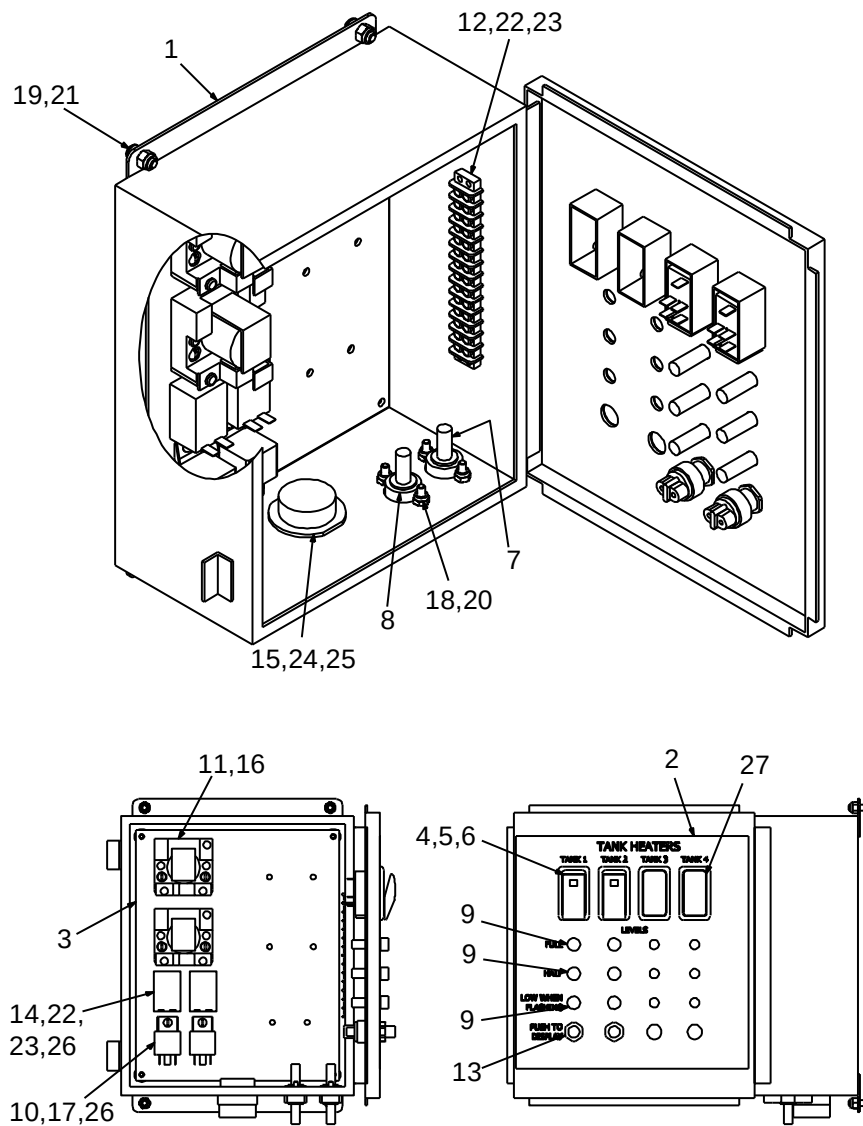
ITEM	PART #	DESCRIPTION	QUANTITY
1.	Various	TANK-POLY	1
2.	73734063	FITTING-1 INCH BULKHEAD	1
3.	77042100	HEATER-120VAC SINGLE PHASE	1
4.	72534432	UNION-BULKHEAD PVC .75 NPT W-GASKET	1
5.	72531833	REDUCER BUSH-STL .75- .50	1
6.	77041733	SWITCH-TANK HEAT NC 100 DEGREES	1
7.	60251236	COVER-HEATER ELEMENT	1
8.	72601755	SCR-MACH #10-24X .38 PNH SL Z	2
9.	72063047	WASHER #10 LOCK	2
10.	77441226	HARNESS-TANK HEATER	1
11.	77040186	TERM-FSLPON I .25TAB 16-14 GA	A/R
12.	77044075	CONNECTOR- .50 LIQUID TITE	1
13.	89034271	CONDUIT- .50 FLEXIBLE NON METAL	20'

99904337-2 PARTS LIST			
ITEM	PART #	DESCRIPTION	QUANTITY
14.	72534538	UNION-BULKHEAD 1.5 NPT W-GASK POLY TANK	3
15.	72534537	SENSOR WELL-HOLDS 30MM SENSOR	3
16.	77041779	PROXIMITY SENSOR-30MM NO CAPACITIVE	3
REV. B 20080227			

TANK HEATER GUARD (Eff. 2008) (99904337-3)

TANK HEATER GUARD PARTS LIST (99904337-3)			
ITEM	PART #	DESCRIPTION	QUANTITY
1.	60132810	GUARD-SENSOR SITESTAR HEATER	1
2.	72061739	SCR-TEK 12-14X 1.00 HWH 3 PT	6
REV. B 20080228			

Polyethylene Tank Heater Control Box (99904160-1) (Thru 2007)



NOTE:

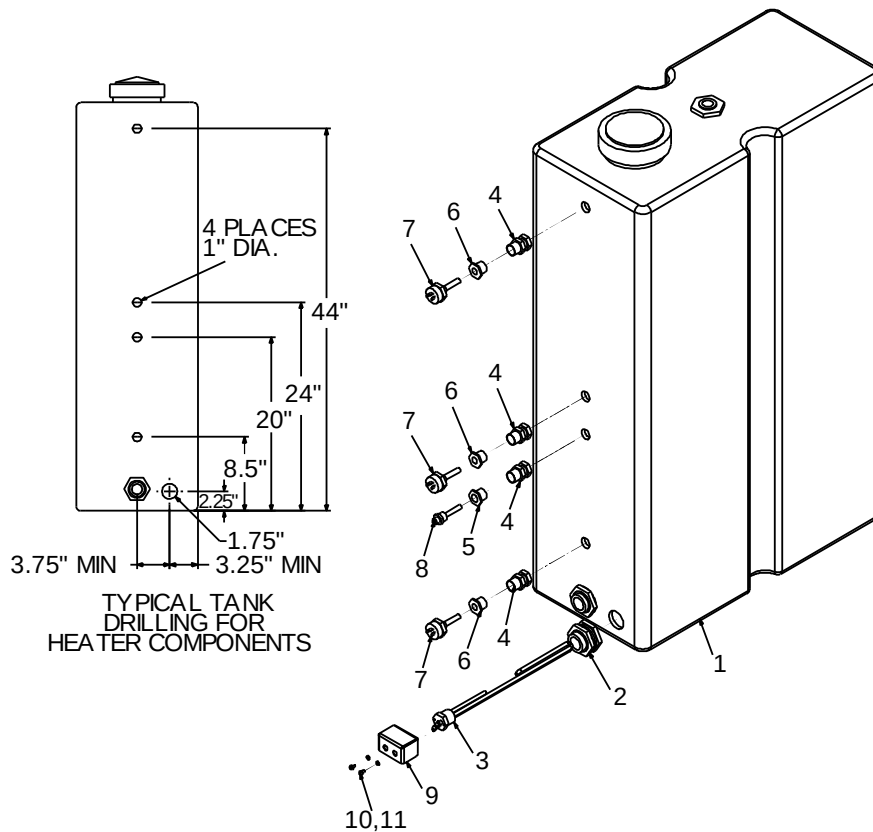
- 1 KIT 91720779 CONTAINS THE CONTROL BOX AND 2 HEATER KITS 91720514, WHICH INCLUDES COMPONENTS FOR TWO TANK HEATER SYSTEMS. ADDITIONAL SYSTEMS ARE ASSEMBLED IN THE SAME MANNER.

99904160-1 PARTS LIST

ITEM	PART #	DESCRIPTION	QUANTITY
1.	60397045	JIC BOX-MODIFIED SITESTAR HEATER	1
2.	70397048	DECAL-TANK HEATERS SITESTAR	1
3.	60131046	BRACKET-ELECTRICAL TANK HEATER	1
4.	77041701	SWITCH-ROCKER BODY	2
5.	77041499	SWITCH-ROCKER RED ACTUATOR	2
6.	77041689	SWITCH-ROCKER SINGLE MOUNTING PANEL	4
7.	70145959	STUD-ELEC PASS THROUGH .38 BLK	1
8.	70145888	STUD-ELEC PASS THROUGH .38 RED	1

99904160-1 PARTS LIST			
ITEM	PART #	DESCRIPTION	QUANTITY
9.	77042001	LIGHT-RED	6
10.	77041251	RELAY-12V 30 AMP NOM/40 AMP MAX	2
11.	70734055	RELAY-10A 110VAC 12V COIL	2
12.	77044309	TERMINAL BLOCK-14 CONTACT	1
13.	77041728	SWITCH-MOMENTARY PUSHBUTTON	2
14.	77041734	FLASHER-DC 60/MIN 2 PRONG	2
15.	77045953	CONN-DEUTSCH PLUG	1
16.	72060638	SCR-MACH 10-24X 1.00 RDH ZINC	4
17.	72060634	SCR-MACH 10-24X .50 RDH	2
18.	72060636	SCR-MACH 10-24X .75 RDH PH ZINC	4
19.	72601652	SCR-MACH .25-20X .75TRHTORXSS	4
20.	72062106	NUT 10-24 HEX NYLOCK	10
21.	72062194	NUT-SS .25-20 NYLOC	4
22.	89396082	VELCRO-HOOK 1" W/ADH BACKED TAPE	A/R
23.	89396083	VELCRO-LOOP 1" W/ADH BACKED TAPE	A/R
24.	77441225	HARNESS-TANK HEAT CONTROL	1
25.	77044580	SOCKET-DEUTSCH CONTACT	A/R
26.	77040186	TERM-FSLPON I .25TAB 16-14 GA	A/R
27.	77041571	SWITCH-ROCKER PLUG	2
NEW 20070214			

Polyethylene Tank Heater (99904160-2) (Thru 2007)



NOTE:

- 1 QUANTITIES LISTED ARE PER TANK HEATER SYSTEM. KIT 91720779 CONTAINS THE CONTROL BOX AND 2 HEATER KITS 91720514, WHICH INCLUDES COMPONENTS FOR TWO TANK HEATER SYSTEMS. ADDITIONAL SYSTEMS ARE ASSEMBLED IN THE SAME MANNER.

99904160-2 PARTS LIST			
ITEM	PART #	DESCRIPTION	QUANTITY
1.	99904160	TANK-POLY	1
2.	73734063	FITTING-1 INCH BULKHEAD	1
3.	77042100	HEATER-120VAC SINGLE PHASE	1
4.	72534432	UNION-BULKHEAD PVC .75" NPT W-GASKET	4
5.	72531833	REDUCER BUSH-STL .75- .50	1
6.	72531832	REDUCER BUSH-STL .75- .38	3
7.	77041217	LEVEL DETECTOR	3
8.	77041733	SWITCH-TANK HEAT NC 100 DEGREES	1
9.	60251236	COVER-HEATER ELEMENT SITESTAR	1
10.	72601755	SCR-MACH #10-24X .38 PNH SL Z	2
11.	72063047	WASHER #10 LOCK	2
12.	77441226	HARNESS-TANK HEATER	1
13.	77040186	TERM-FSLPON I .25TAB 16-14 GA	A/R
14.	77044075	CONNECTOR- .50 LIQUID TITE	1
15.	89034271	CONDUIT- .50 FLEXIBLE NON METAL	20'

99904160-2 PARTS LIST			
ITEM	PART #	DESCRIPTION	QUANTITY
NEW 20070214			

HOSE RTG-MOD A-PUMP DRAIN/LOADSENSE (99903146-1)	5-3
HOSE RTG-MOD A-PUMP PRESSURE/RETURN (99903146-2)	5-4
HOSE RTG-MOD A-PUMP TO REEL (99903146-3)	5-5
HOSE RTG-MOD A-TANK TO PUMP-OIL 1-3 (99903146-4)	5-6
HOSE RTG-MOD A-PUMP-TANK AF/OIL#4/SALV (99903146-5)	5-7
HOSE RTG-MOD A-COMPRESSOR (99903146-6)	5-8
HOSE RTG-MOD A-TO RESERVOIR (99903146-7)	5-9
HOSE RTG-MOD A-FLR/LOADSENSE/PRESSURE (99903146-8)	5-10
HOSE RTG-MOD A-UNDERBODY (99903146-9)	5-11
HOSE RTG-MOD B-FUEL (99903146-10)	5-12
HOSE RTG-MOD C-OIL #5 & #6 (99903146-11)	5-13
HOSE RTG-MOD B&C-FUEL, OIL #5 & #6 (99903146-12)	5-14
HOSE RTG-MOD B&C-FUEL, OIL #5 & #6 (99903146-13)	5-15
HOSE RTG-MOD B&B-DUAL FUEL (99903146-14)	5-16
HOSE RTG-MOD B&B-DUAL FUEL (99903146-15)	5-17
HOSE RTG-MOD D-SALVAGE & OIL #5 (99903146-16)	5-18

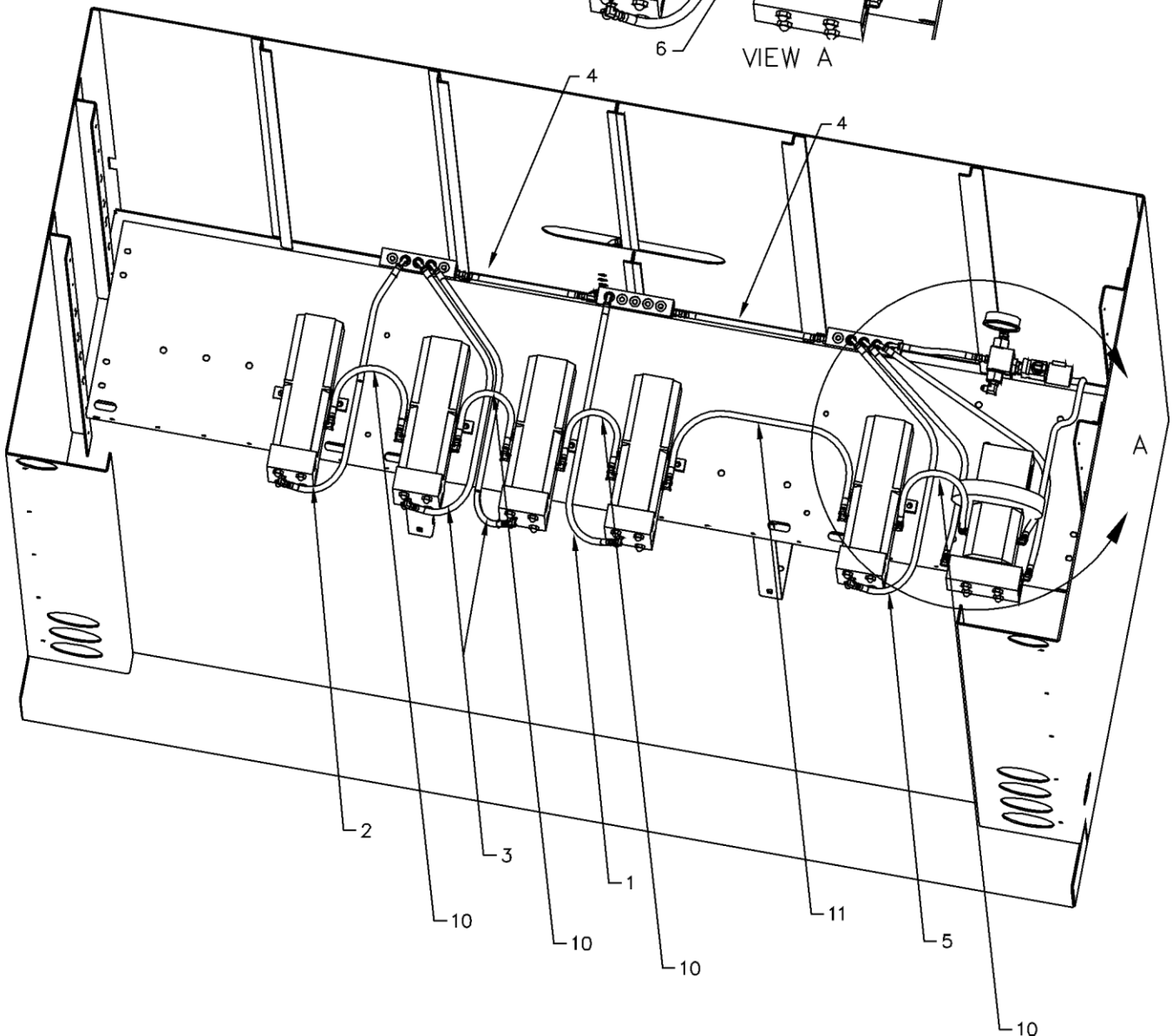
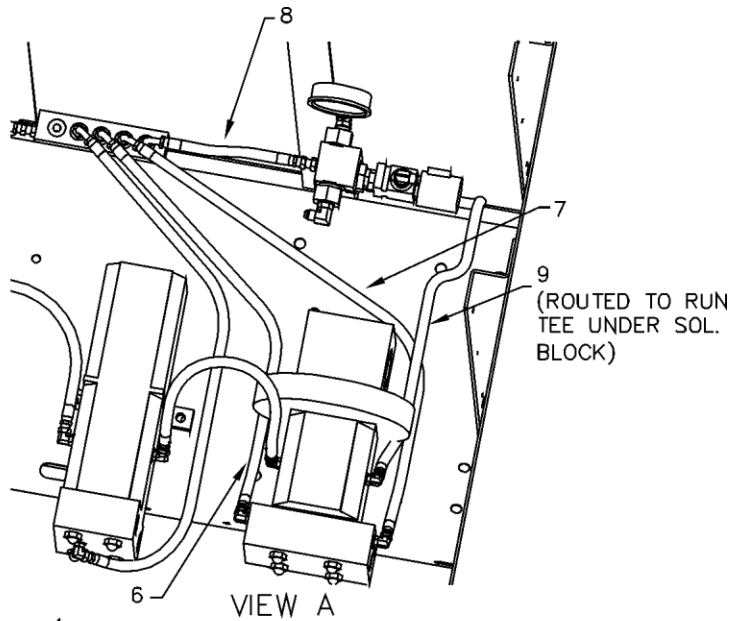
NOTES

[illegible]

HOSE RTG-MOD A-PUMP DRAIN/LOADSENSE (99903146-1)

1.	51395673	HOSE-FJ .25X32 #4#4	1
2.	51395573	HOSE-FJ .25X27 #4#4	1
3.	51395574	HOSE-FJ .25X28.5 #4#4	2
4.	51395674	HOSE-FF .38X9 #6#6	2
5.	51395576	HOSE-FJ .25X33 #4#4	1
6.	51395577	HOSE-FJ .25X27 #4#4	1
7.	51395578	HOSE-FJ .25X34 #4#4	1
8.	51395675	HOSE-FJ .25X11.5 #4#4	1
9.	51393982	HOSE-FF .25X20 #4#4	1
10.	51395608	HOSE-FF .25X23 #4#4	4
11.	51395676	HOSE-FF .25X30 #4#4	1

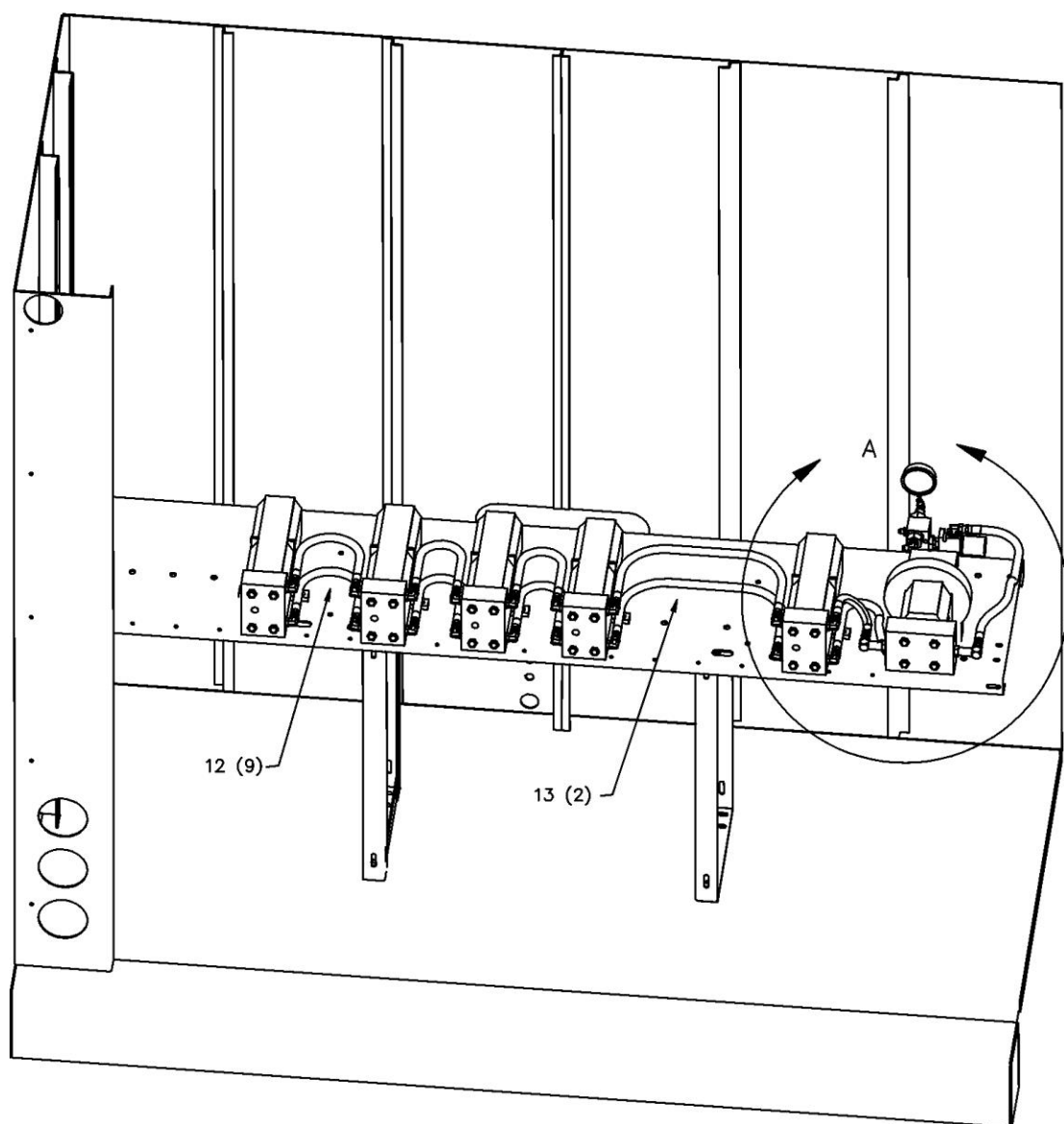
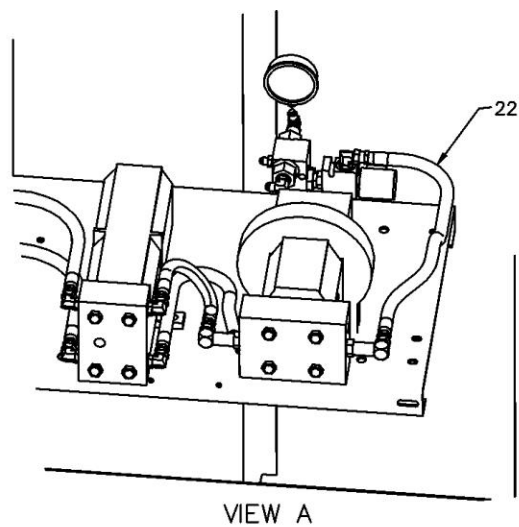
NOTE: ALL HOSES PART OF HOSE KIT MOD-A, 51715683.



**HOSE RTG-MOD A-PUMP PRESSURE/RETURN
(99903146-2)**

- 12. 51395678 H
- 13. 51395612 H
- 22. 51395678 H

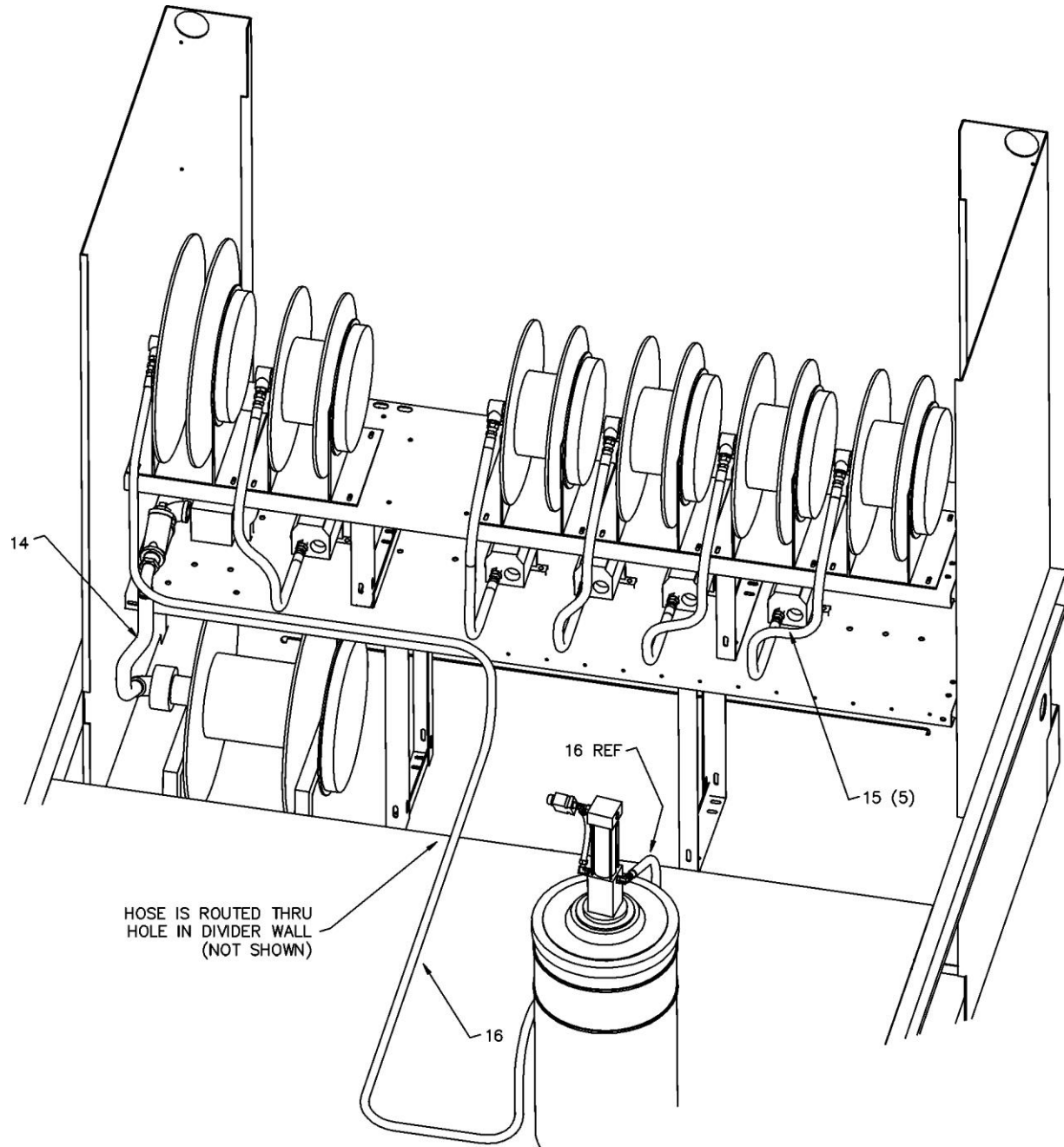
NOTE: ALL HOSES PART OF HOSE KIT MOD-A, 51715683.



HOSE RTG-MOD A-PUMP TO REEL (99903146-3)

- | | | |
|-----|--------------------------------|---|
| 14. | 51395679 HOSE 1-1/4 100R4 X 24 | 1 |
| 15. | 51395587 HOSE-FF .50X37 #8#8 | 5 |
| 16. | 51395597 HOSE-FF .50X195 #8#8 | 1 |

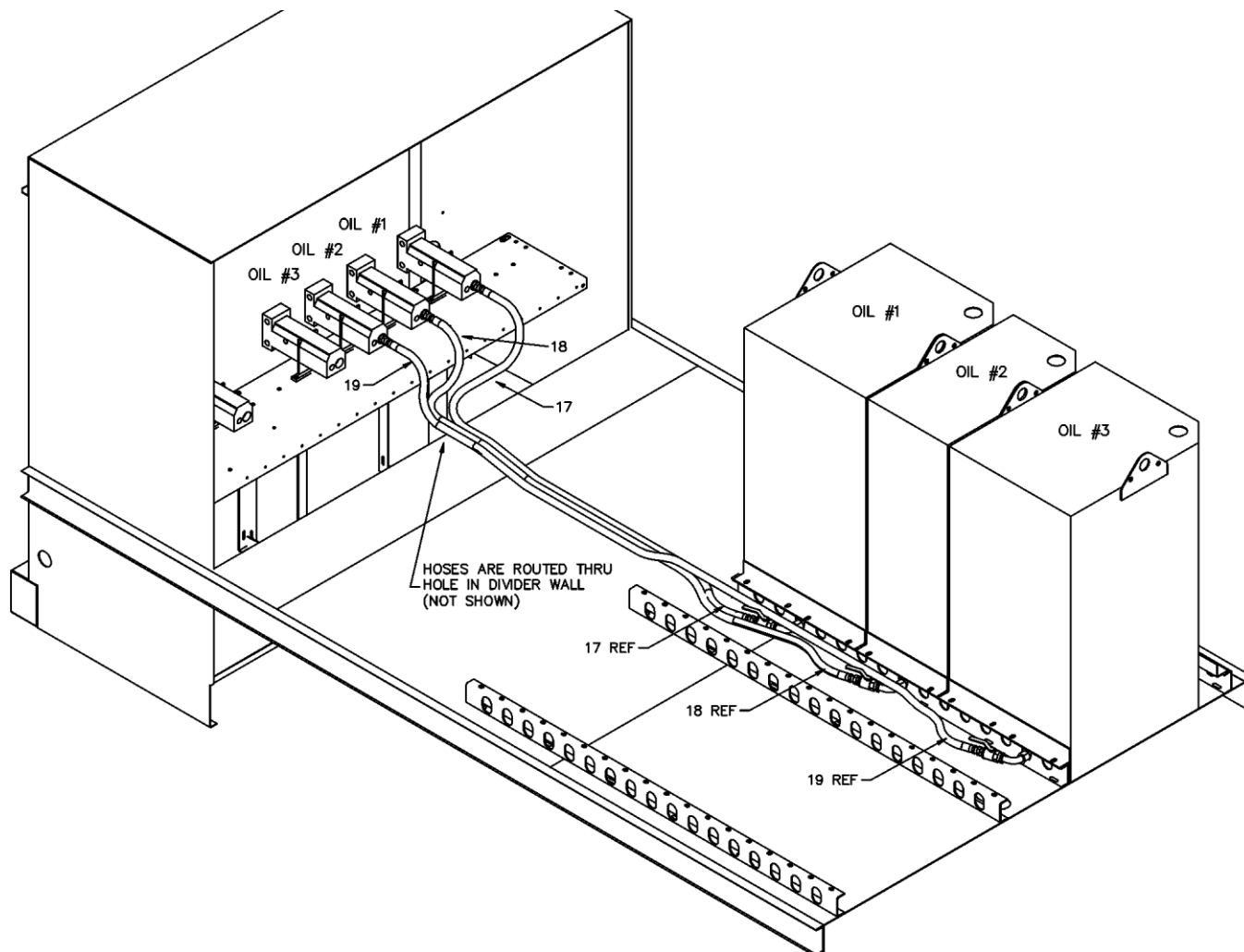
NOTE: ALL HOSES PART OF HOSE KIT MOD-A, 51715683



HOSE RTG-MOD A-TANK TO PUMP-OIL 1-3 (99903146-4)

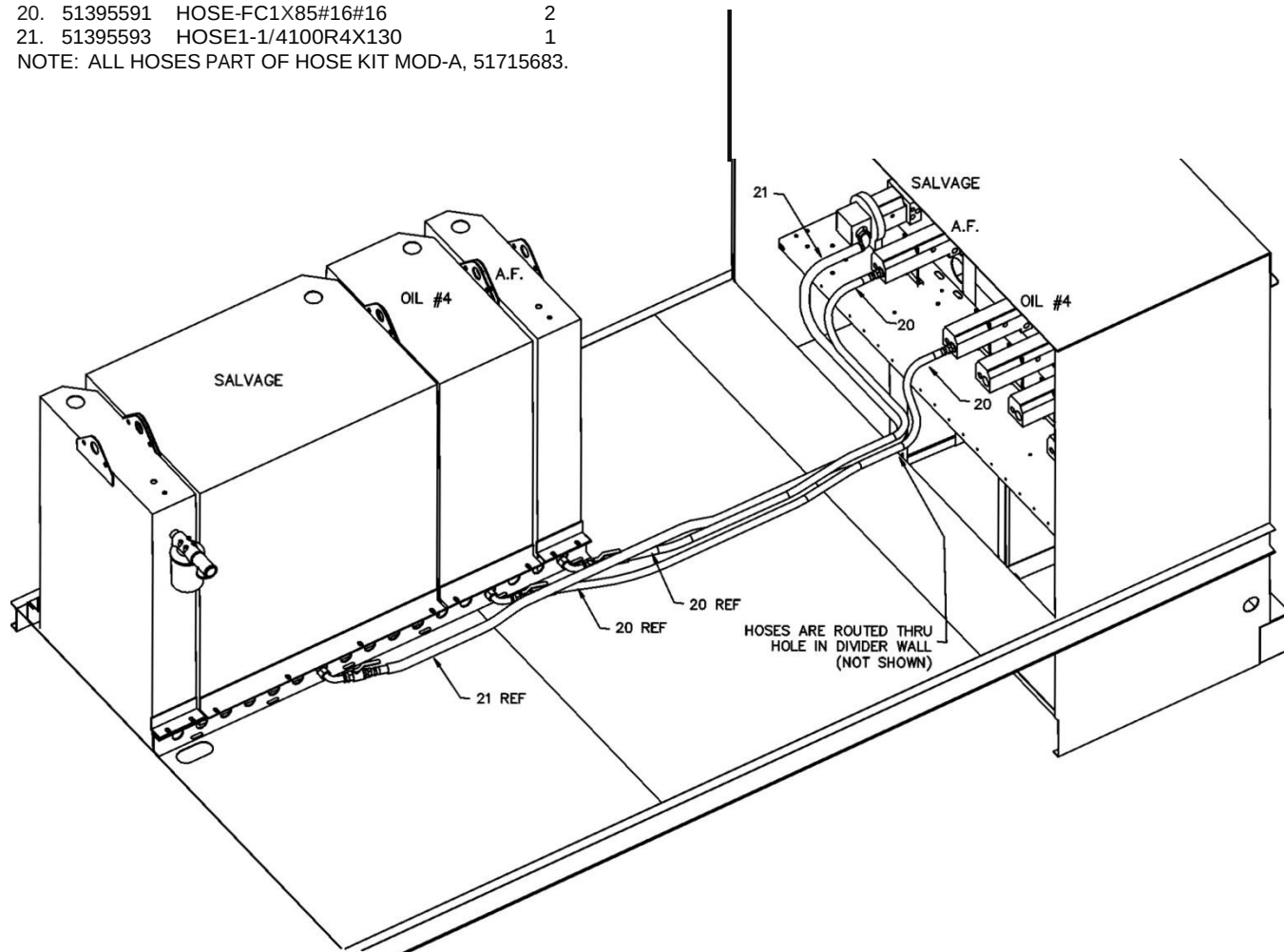
- | | |
|-----------------------------------|---|
| 17. 51395588 HOSE-FC 1X101 #16#16 | 1 |
| 18. 51395589 HOSE-FC 1X119 #16#16 | 1 |
| 19. 51395590 HOSE-FC 1X138 #16#16 | 1 |

NOTE: ALL HOSES PART OF HOSE KIT MOD-A, 51715683



HOSE RTG-MOD A-PUMP-TANK AF/OIL#4/SALV (99903146-5)

20. 51395591 HOSE-FC1X85#16#16 2
21. 51395593 HOSE1-1/4100R4X130 1
NOTE: ALL HOSES PART OF HOSE KIT MOD-A, 51715683.



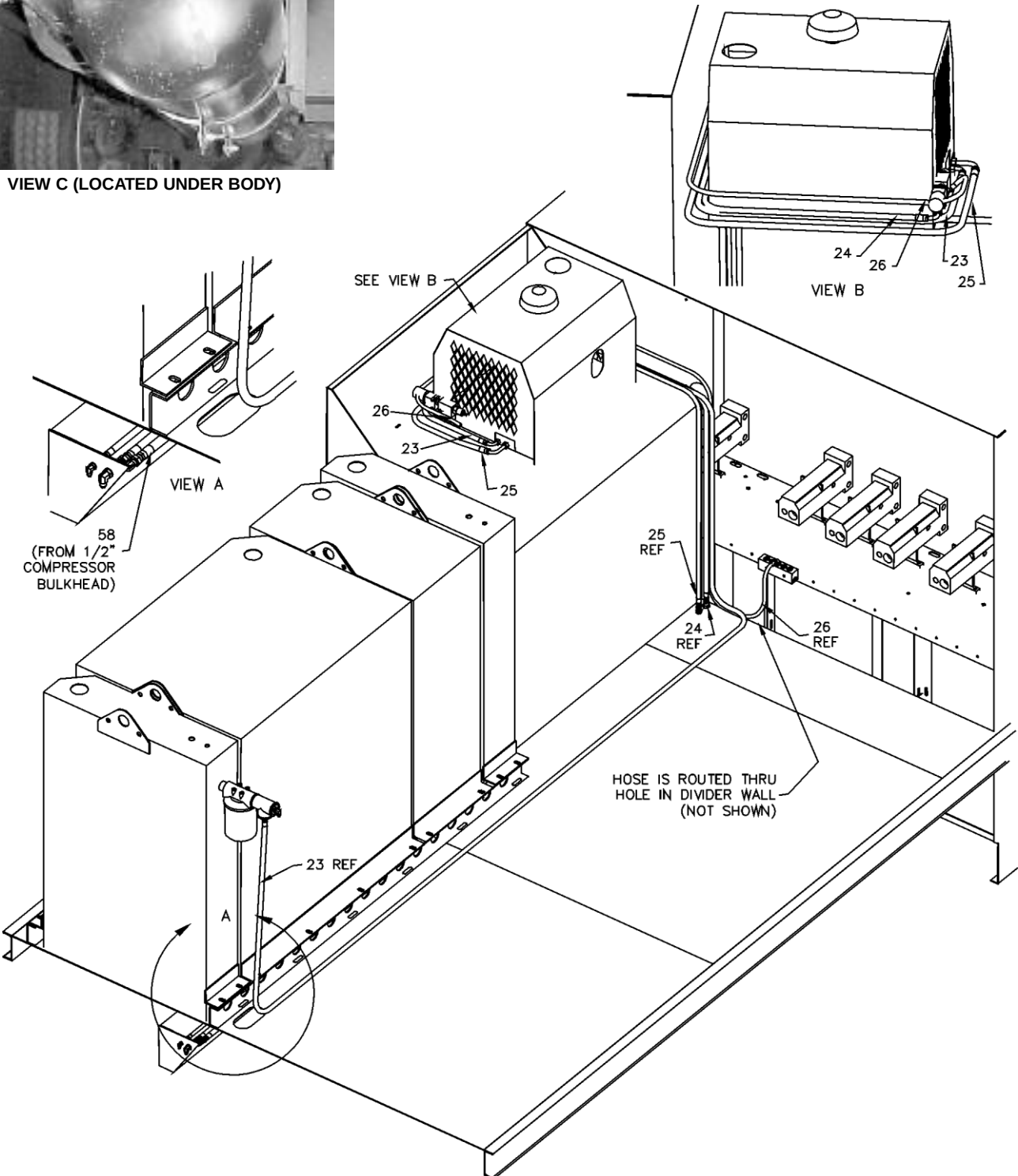


57
(FROM 3/4"
COMPRESSOR
BULKHD)

HOSE RTG-MOD A-COMPRESSOR (99903146-6)

23.	51395942	HOSE-FJ 3/4X282 #12#12	1
24.	51395948	HOSE-FF .50X102 #8#8	1
25.	51395943	HOSE-FZ .75X128 #12#12	1
26.	51395949	HOSE-FJ .25X135 #4#4	1
57.	51395944	HOSE-FJ .75X126 #12#12	1
58.	51395180	HOSE-FJ .50X153 #8#8	1

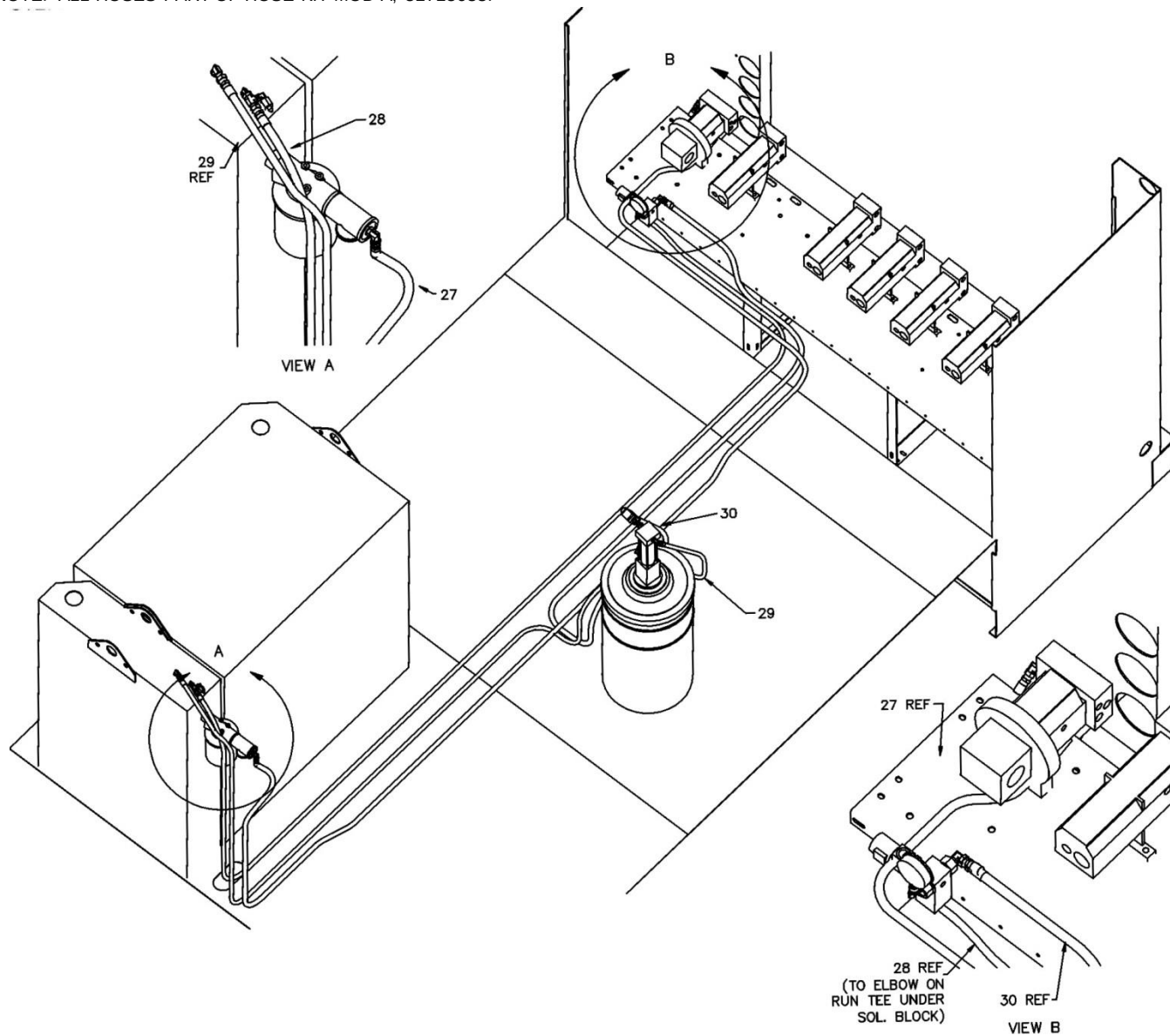
NOTE: ALL HOSES PART OF HOSE KIT MOD-A, 51715683.



HOSE RTG-MOD A-TO RESERVOIR (99903146-7)

27.	51393958	HOSE-FF .50X241 #8#8	1
28.	51395594	HOSE-FJ .25X219 #4#4	1
29.	51395685	HOSE-FF .75X235 #12#12	1
30.	51394429	HOSE-FF .50X177 #8#8	1

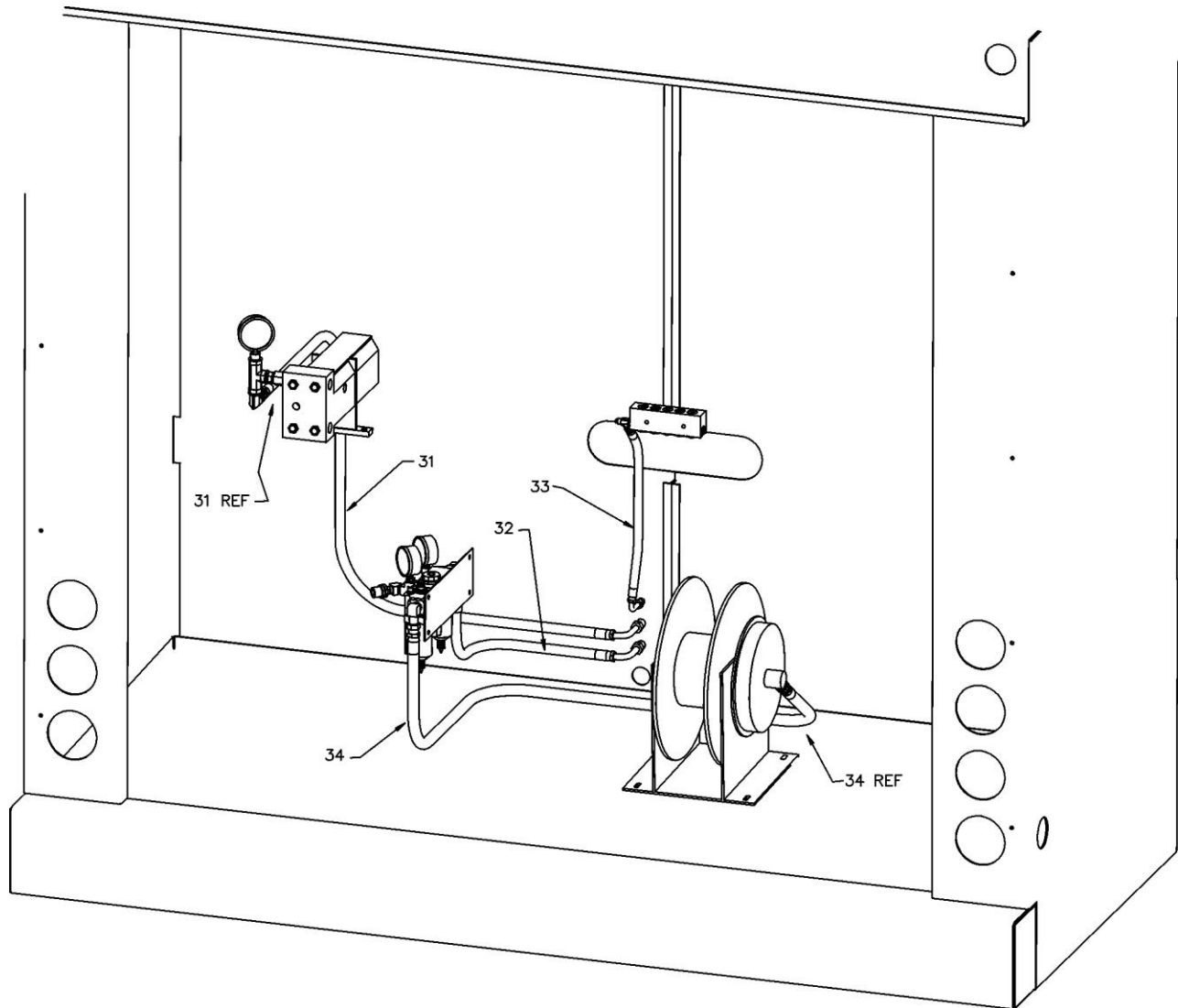
NOTE: ALL HOSES PART OF HOSE KIT MOD-A, 51715683.



HOSE RTG-MOD A-FLR/LOADSENSE/PRESSURE (99903146-8)

- | | | | |
|-----|----------|---------------------|---|
| 31. | 51395571 | HOSE-FJ .50X87 #8#8 | 1 |
| 32. | 51395584 | HOSE-FJ .50X37 #8#8 | 1 |
| 33. | 51395689 | HOSE-FJ .38X19 #6#6 | 1 |
| 34. | 51395586 | HOSE-FF .50X57 #8#8 | 1 |

NOTE: ALL HOSES PART OF HOSE KIT MOD-1, 51715683



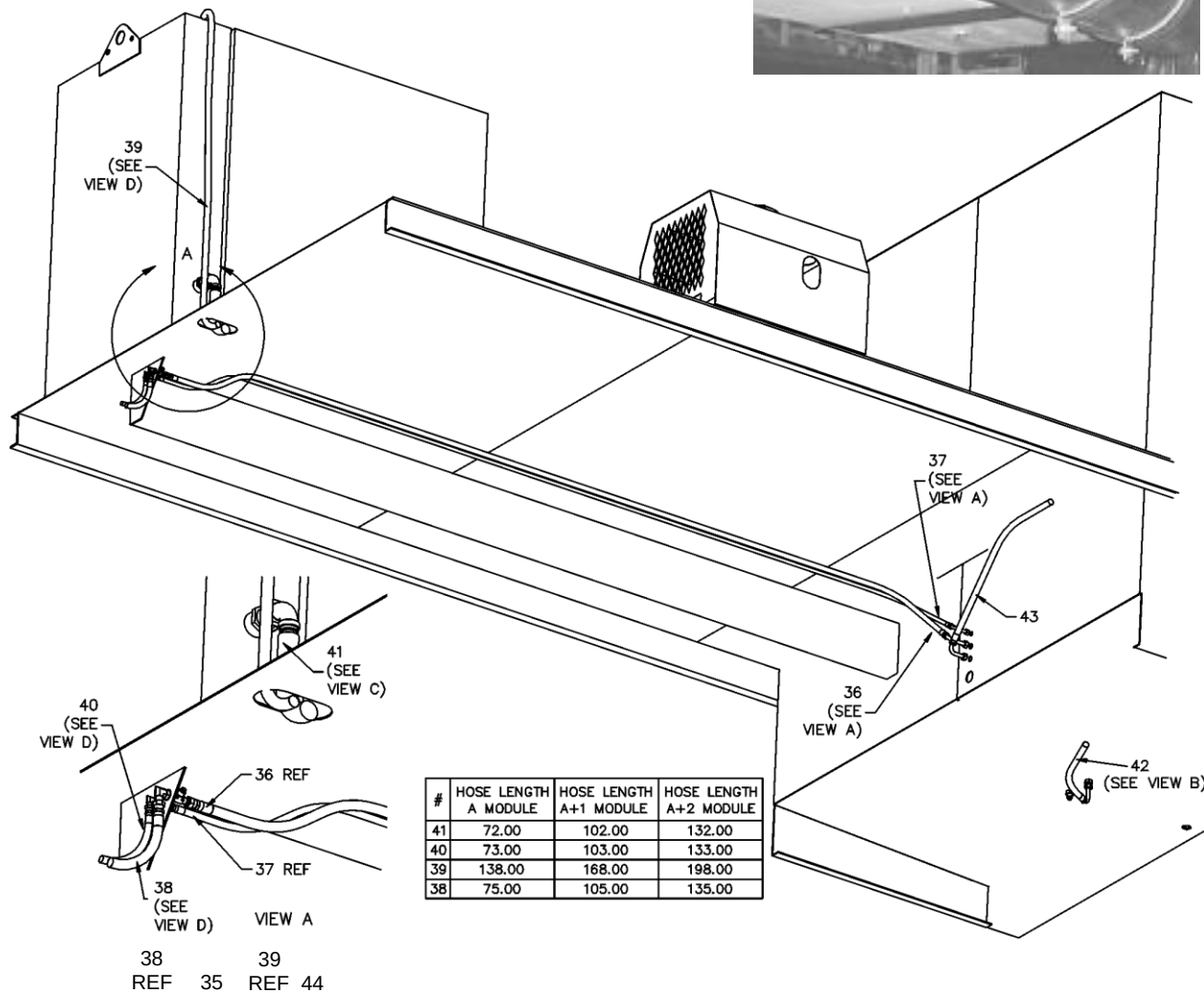
HOSE RTG-MOD A-UNDERBODY (99903146-9)

35.	51395015	HOSE-FJ .50X21 #8#8	1
36.	51395718	HOSE-FJ .50X133 #8#8	1
37.	51395806	HOSE-FJ .38X144 #6#6	1
38.	51395692	HOSE 3/4 100R2 X 135 (SEE CHART)	1
39.	51395693	HOSE 1/2 100R2 X 198 (SEE CHART)	1
40.	51395694	HOSE 3/8 100R2 X 133 (SEE CHART)	1
41.	51395695	HOSE 1-1/4 100R4X132(SEE CHART)	1
42.	51395891	HOSE-FJ .75X148 #12#12	1
43.	51395603	HOSE-FJ .50X108 #8#8	1
44.	51395634	HOSE 1-1/4 100R4 X 17	1

NOTE: ALL HOSES PART OF HOSE KIT MOD-A, 51715683.



VIEW B



40 REF

VIEW D

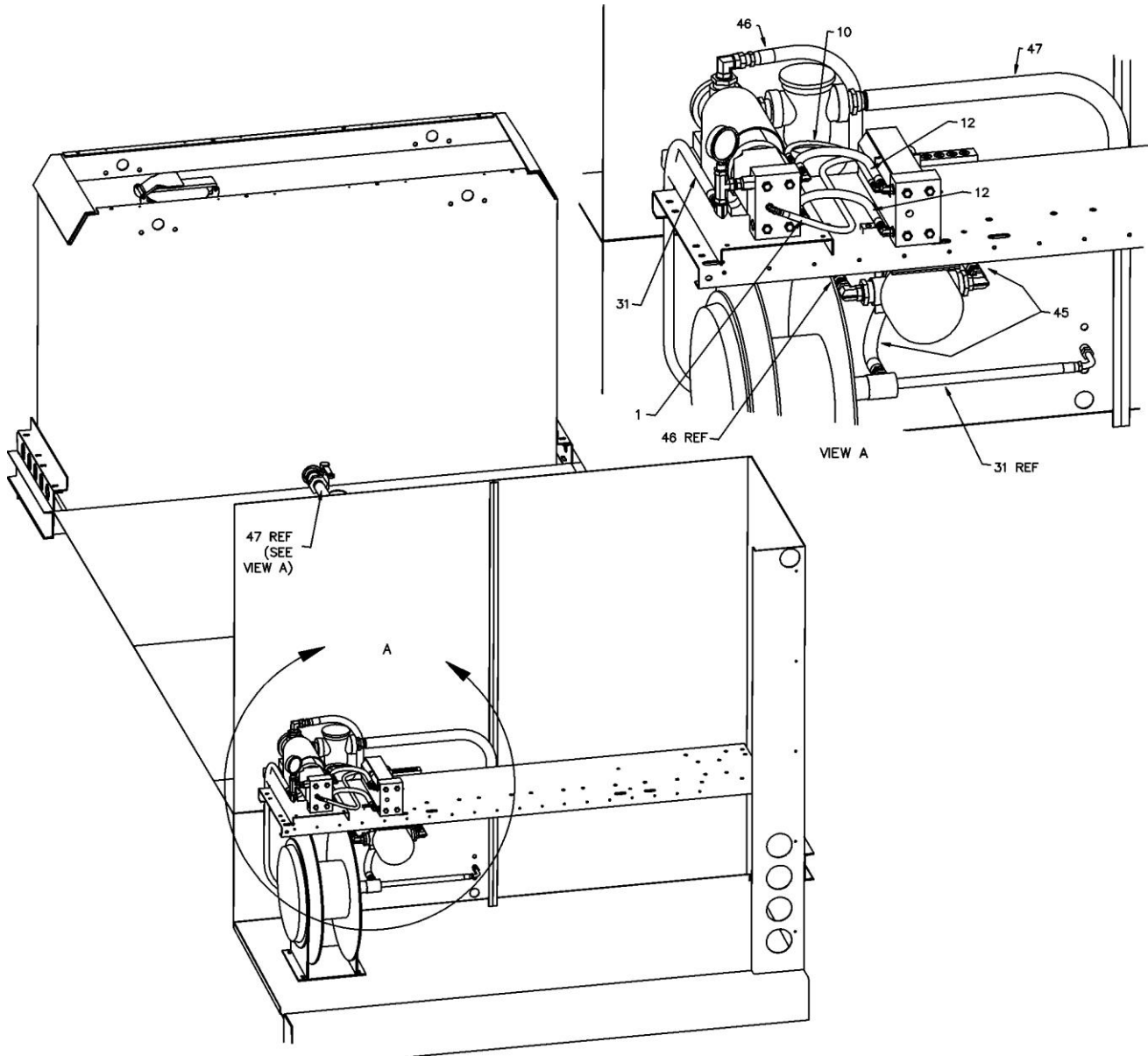
41
REF

VIEW C

HOSE RTG-MOD B-FUEL (99903146-10)

- | | | | |
|-----|----------|------------------------|---|
| 1. | 51395673 | HOSE-FJ .25X32 #4#4 | 1 |
| 10. | 51395608 | HOSE-FF .25X23 #4#4 | 1 |
| 12. | 51394619 | HOSE-FF .50X27 #8#8 | 2 |
| 31. | 51395571 | HOSE-FJ .50X87 #16 #16 | 1 |
| 45. | 51395582 | HOSE-FF 1X30 #16 #16 | 1 |
| 46. | 51395583 | HOSE-FF 1X43 #16#16 | 1 |
| 47. | 51395592 | HOSE 1-1/2 100R4X171 | 1 |

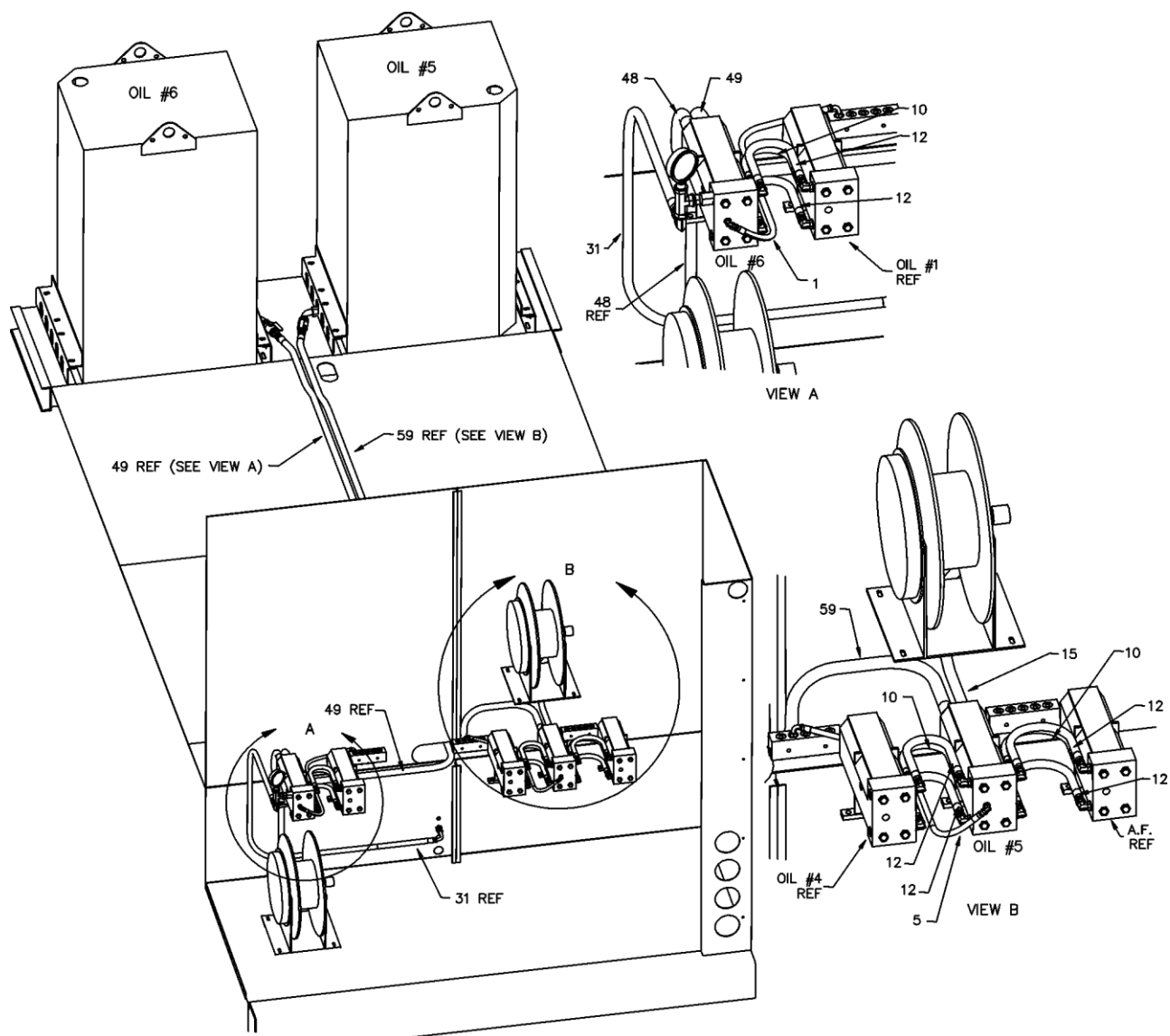
NOTE: ALL HOSES PART OF HOSE KIT-MOD B, 51715781



HOSE RTG-MOD C-OIL #5 & #6 (99903146-11)

1.	51395673	HOSE-FJ .25X32 #4#4	1
5.	51395576	HOSE-FJ .25X33 #4#4	1
10.	51395608	HOSE-FF .25X23 #4#4	3
12.	51394619	HOSE-FF .50X27 #8#8	6
15.	51395587	HOSE-FF .50X37 #8#8	1
31.	51395571	HOSE-FJ .50X87 #8#8	1
48.	51394386	HOSE-FF .50X51 #8#8	1
49.	51395616	HOSE-FC 1X183 #16#16	1
59.	51395805	HOSE-FC 1X167 #16#16	1

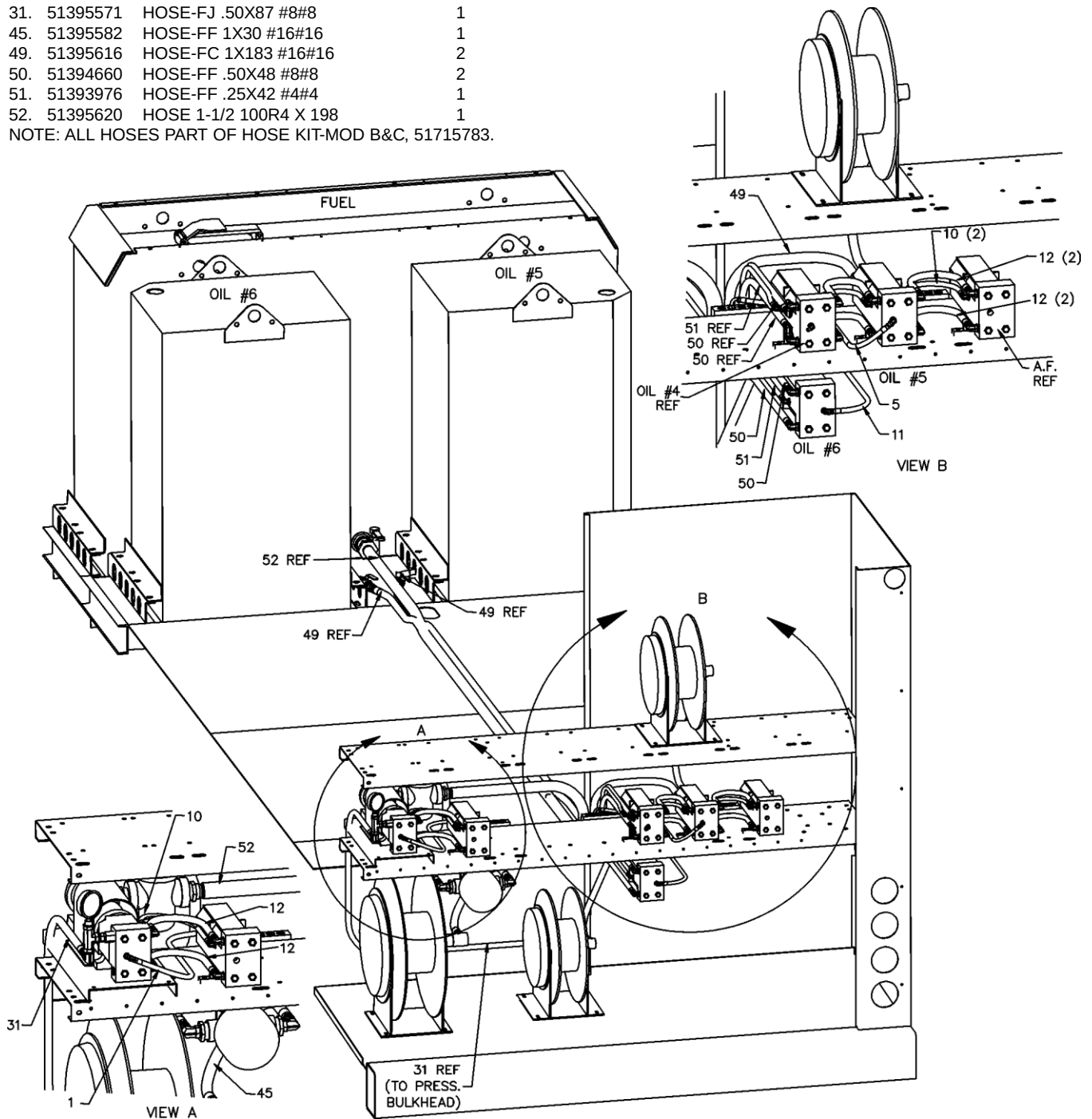
NOTE: ALL HOSES PART OF HOSE KIT-MOD C, 51715782.



HOSE RTG-MOD B&C-FUEL, OIL #5 & #6 (99903146-12)

1.	51395673	HOSE-FJ .25X32 #4#4	1
5.	51395576	HOSE-FJ .25X33 #4#4	1
10.	51395608	HOSE-FF .25X23 #4#4	3
11.	51395610	HOSE-FF .25X34 #4#4	1
12.	51394619	HOSE-FF .50X27 #8#8	6
31.	51395571	HOSE-FJ .50X87 #8#8	1
45.	51395582	HOSE-FF 1X30 #16#16	1
49.	51395616	HOSE-FC 1X183 #16#16	2
50.	51394660	HOSE-FF .50X48 #8#8	2
51.	51393976	HOSE-FF .25X42 #4#4	1
52.	51395620	HOSE 1-1/2 100R4 X 198	1

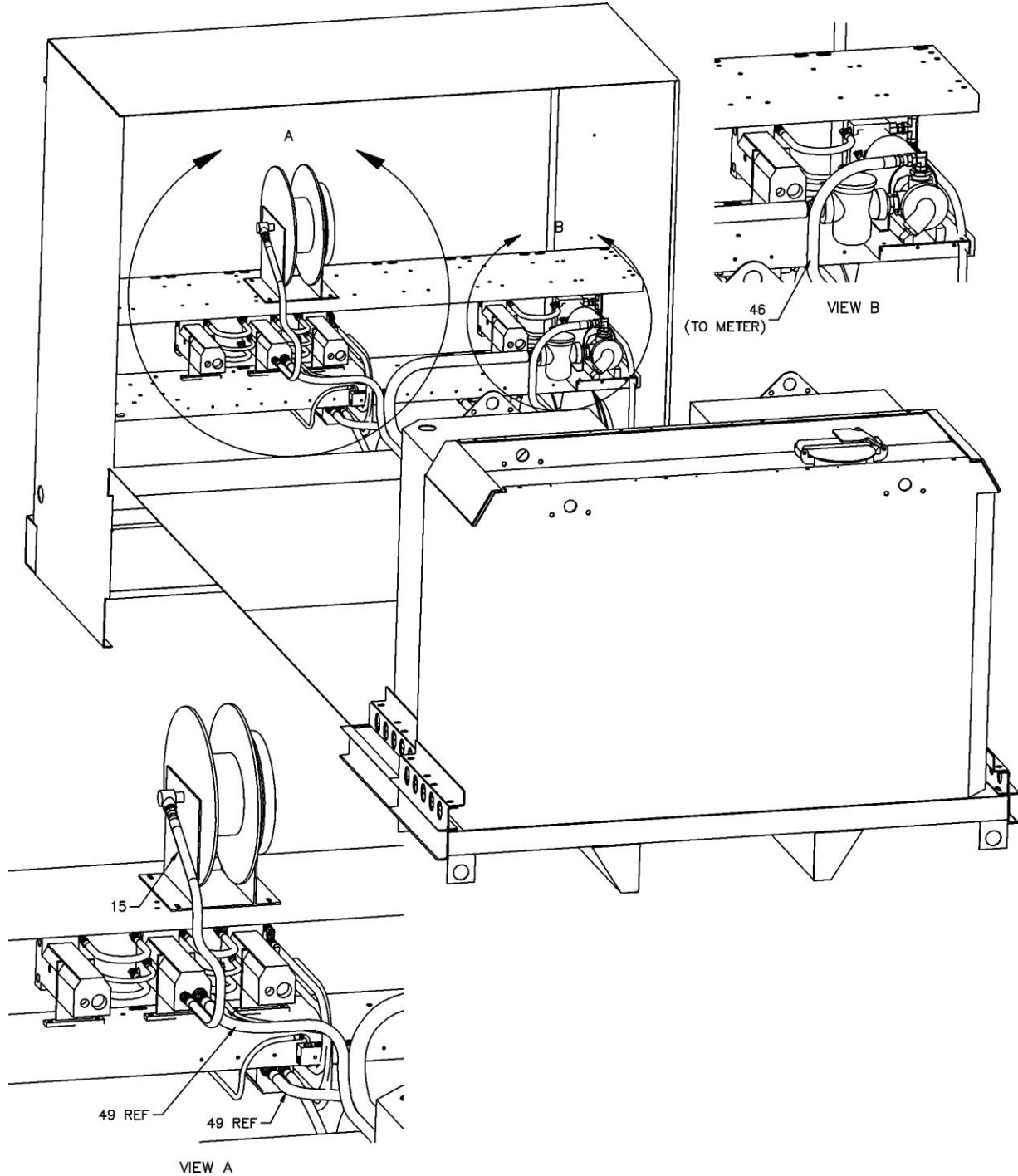
NOTE: ALL HOSES PART OF HOSE KIT-MOD B&C, 51715783.



**HOSE RTG-MOD B&C-FUEL, OIL #5 & #6
(99903146-13)**

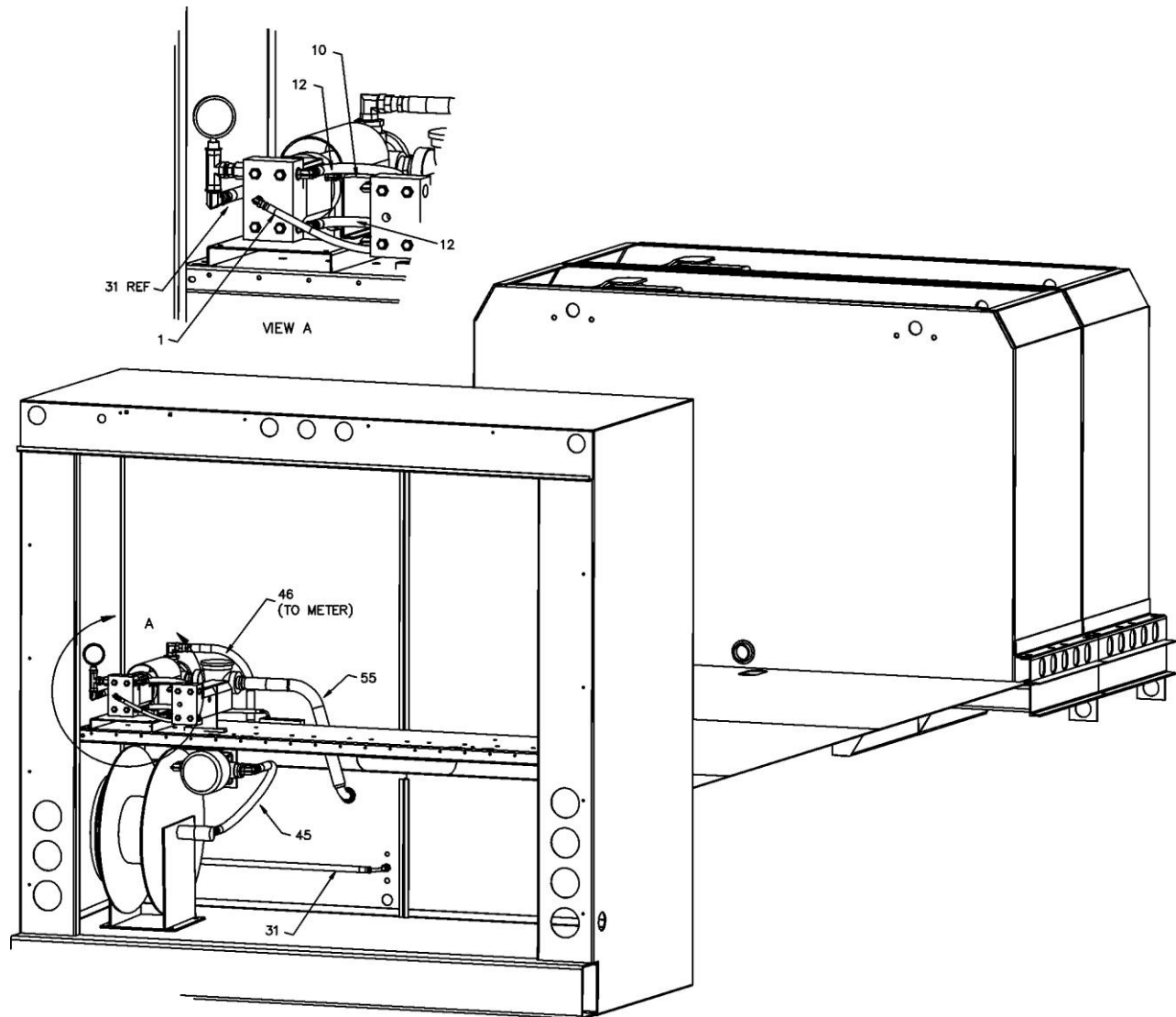
- | | | | |
|-----|----------|----------------------|------|
| 15. | 51395587 | HOSE-FF .50X37 #8#8 | 1 |
| 46. | 51395583 | HOSE-FF 1X43 #16#16 | 1 |
| 49. | 51395616 | HOSE-FC 1X183 #16#16 | 2REF |

NOTE: ALL HOSES PART OF HOSE KIT-MOD B&C, 51715783



HOSE RTG-MOD B&B-DUAL FUEL (99903146-14)

- | | | | |
|-----|----------|-----------------------|---|
| 1. | 51395673 | HOSE-FJ .25X32 #4#4 | 1 |
| 10. | 51395608 | HOSE-FF .25X23 #4#4 | 1 |
| 12. | 51394619 | HOSE-FF .50X27 #8#8 | 2 |
| 31. | 51395571 | HOSE-FF .50X87 #8#8 | 1 |
| 45. | 51395582 | HOSE-FF 1X30 #16#16 | 1 |
| 46. | 51395583 | HOSE-FF 1X43 #16#16 | 1 |
| 55. | 51395623 | HOSE 1-1/2 100R4 X 35 | 1 |
- NOTE: ALL HOSES PART OF HOSE KIT-MOD B&B,
51715784

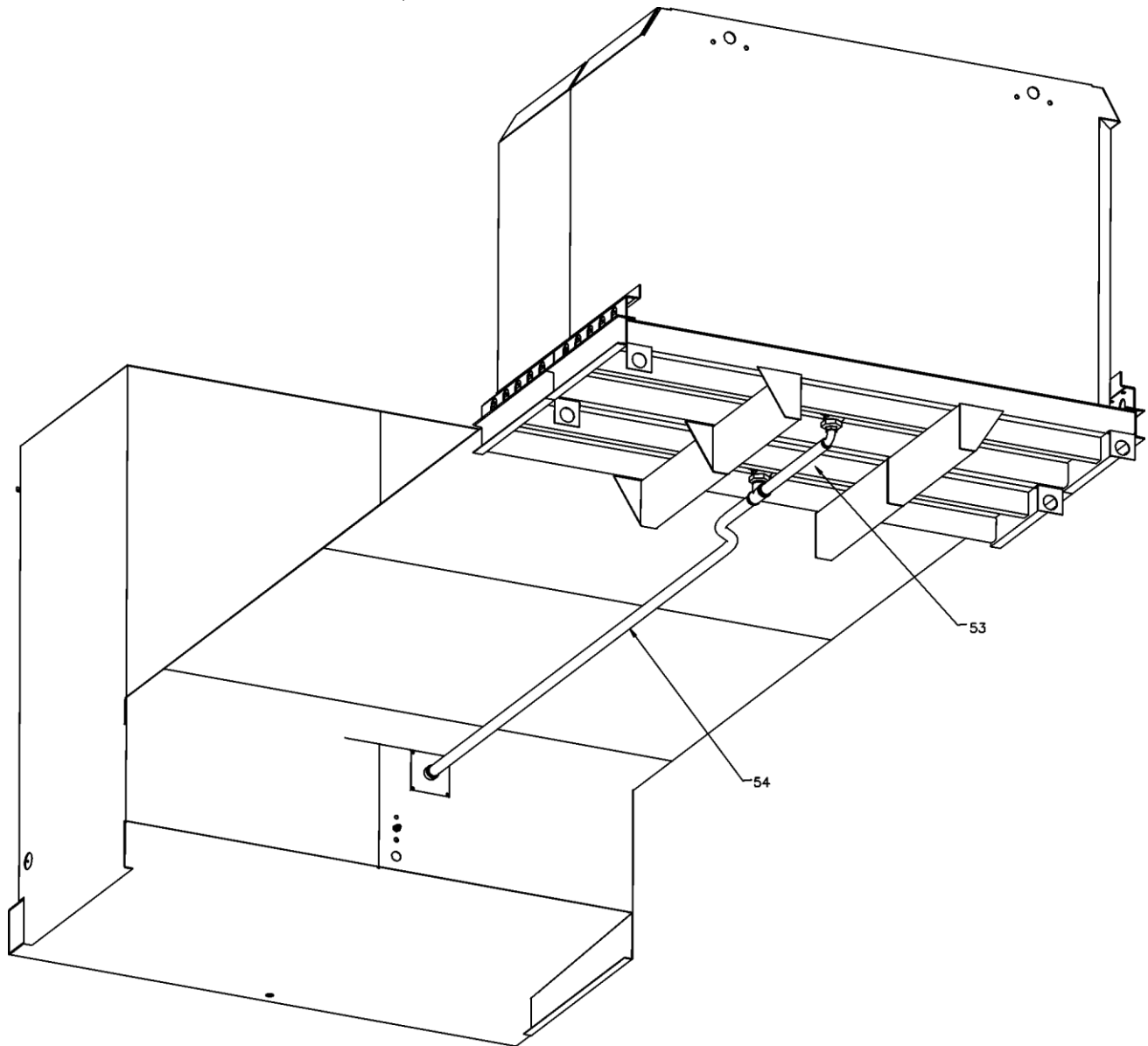


HOSE RTG-MOD B&B-DUAL FUEL (99903146-15)

53. 51395621 HOSE 2" 100R4 X 28 1

54. 51395622 HOSE 1-1/2" 100R4 X 145 1

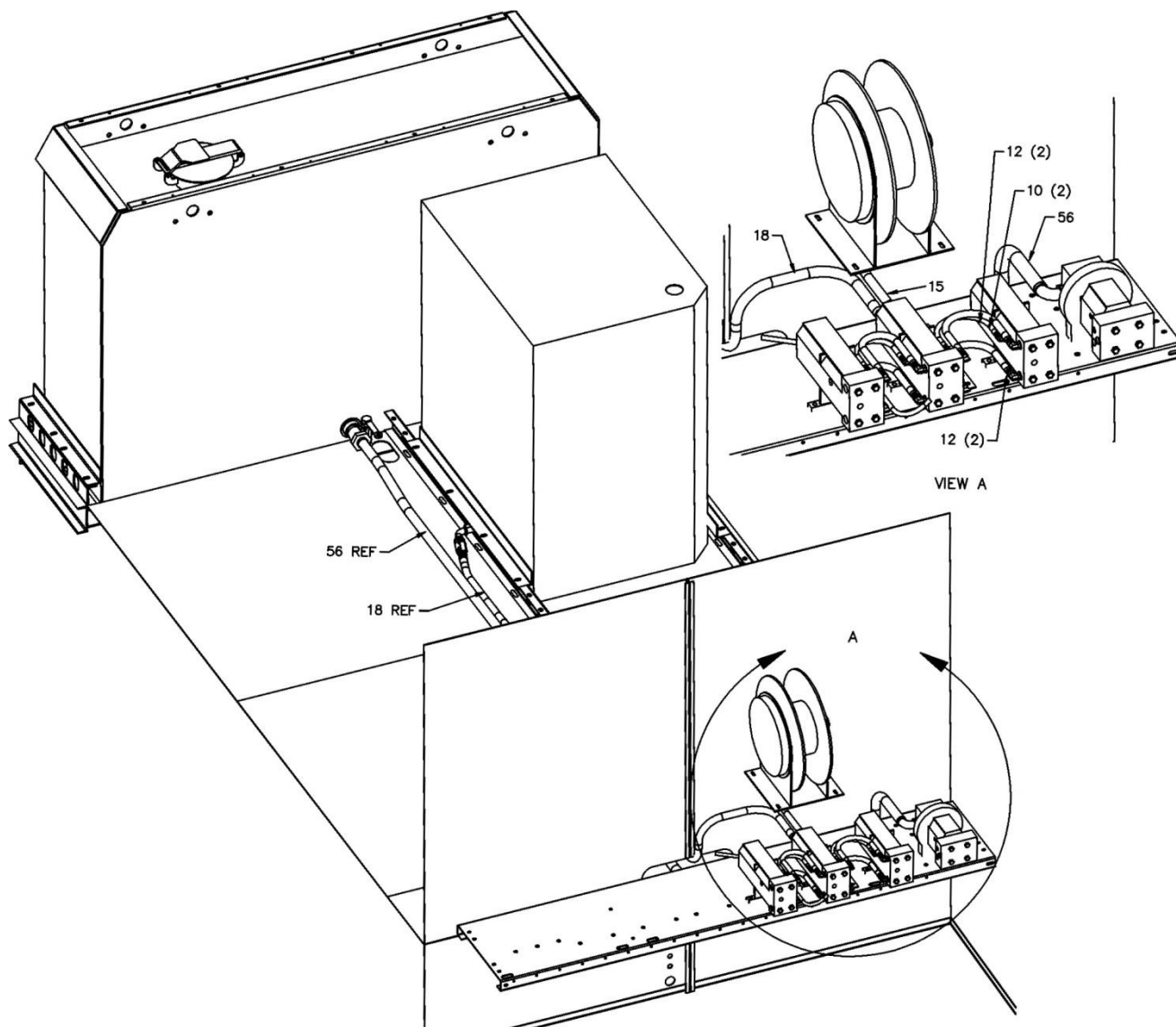
NOTE: ALL HOSES PART OF HOSE KIT-MOD B&B, 51715784.



HOSE RTG-MOD D-SALVAGE & OIL #5 (99903146-16)

10.	51395608	HOSE-FF .25X23 #4#4	2
12.	51394619	HOSE-FF .50X27 #8#8	4
15.	51395587	HOSE-FF .50X37 #8#8	1
18.	51395589	HOSE-FC 1X119 #16#16	1
56.	51395624	HOSE 1-1/4100R4X 175	1

NOTE: ALL HOSES PART OF HOSE KIT-MOD D, 51715785.



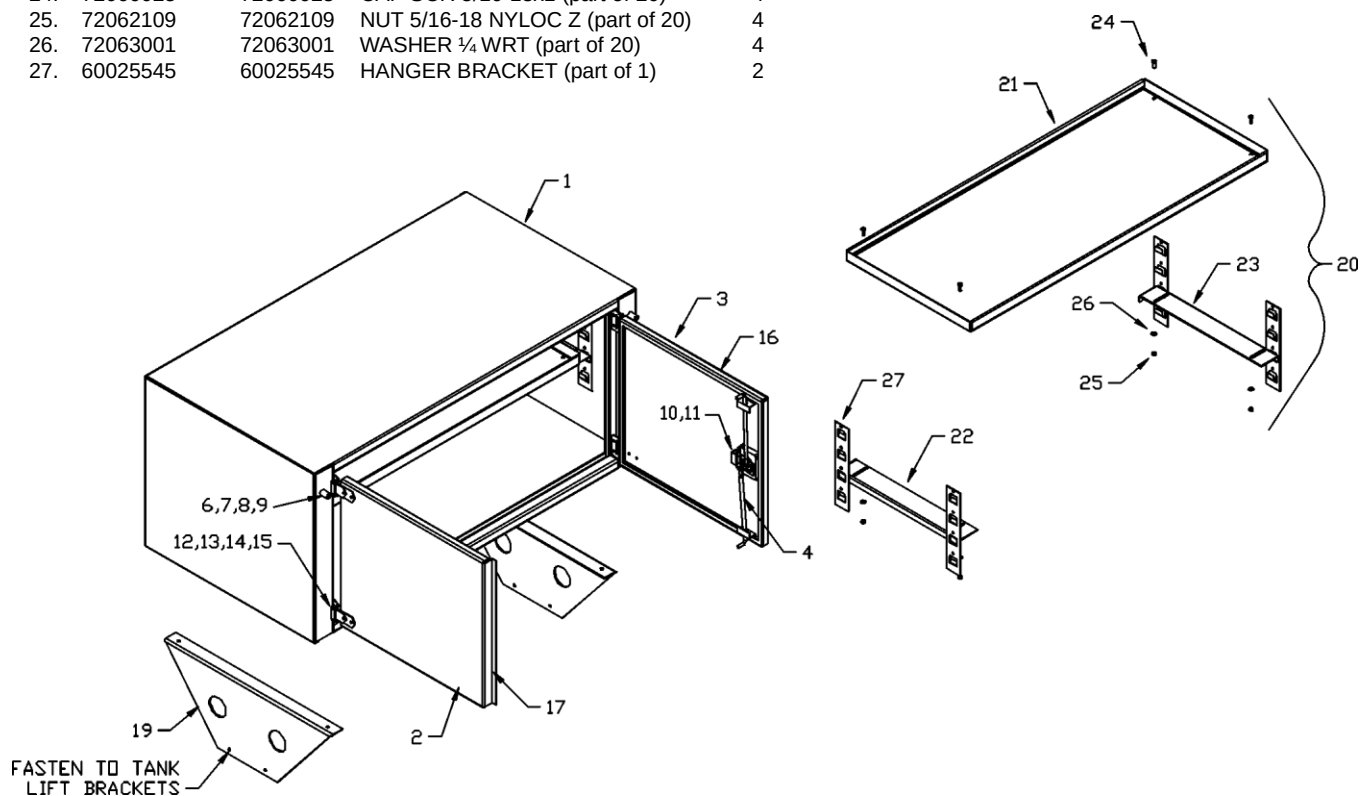
COMPARTMENT-ALUM. 24.5Hx54Wx28.5D (51715815)	6-3
COMPARTMENT-ALUM. 24.5Hx36Wx28.5D (51715911)	6-4
CABINET-FILTER-SGL DOOR	6-5
CABINET-FILTER-DBL DOOR W/ PANEL	6-6
CABINET-FILTER-DBL DOOR	6-7
UNDERBODY TOOLBOX-SGL DOOR	6-8
UNDERBODY TOOLBOX-DBL DOOR	6-9
UNDERBODY COMPRESSOR COMPT 24Hx52Lx27D	6-10
UNDERBODY FILTER DRAIN BOX	6-11
SHELF ASSEMBLY	6-12
LADDER-FOLD DOWN (51706063)	6-13
LADDER-FOLD DOWN VERTICAL (41716011)	6-14
PUMP HOLDER-120# GREASE (51716077)	6-15
DOOR-SIDE ACCESS	6-16
ROLL-UP DOOR (EFF: 4-1-01 / 70733506)	6-17
DRAIN PAN ASM-FILTER BOX (52716075)	6-17
ROLL-UP DOOR (PRE: 4-1-01 / 70732814)	6-17
DRAIN PAN ASM-16 GAL	6-17
UNDERBODY TOOLBOX DRAIN, ROLL-OUT, 28" (51713131)	6-18
UNDERBODY TOOLBOX DRAIN, ROLL-OUT, 40" (51724256)	6-18

NOTES

[illegible]

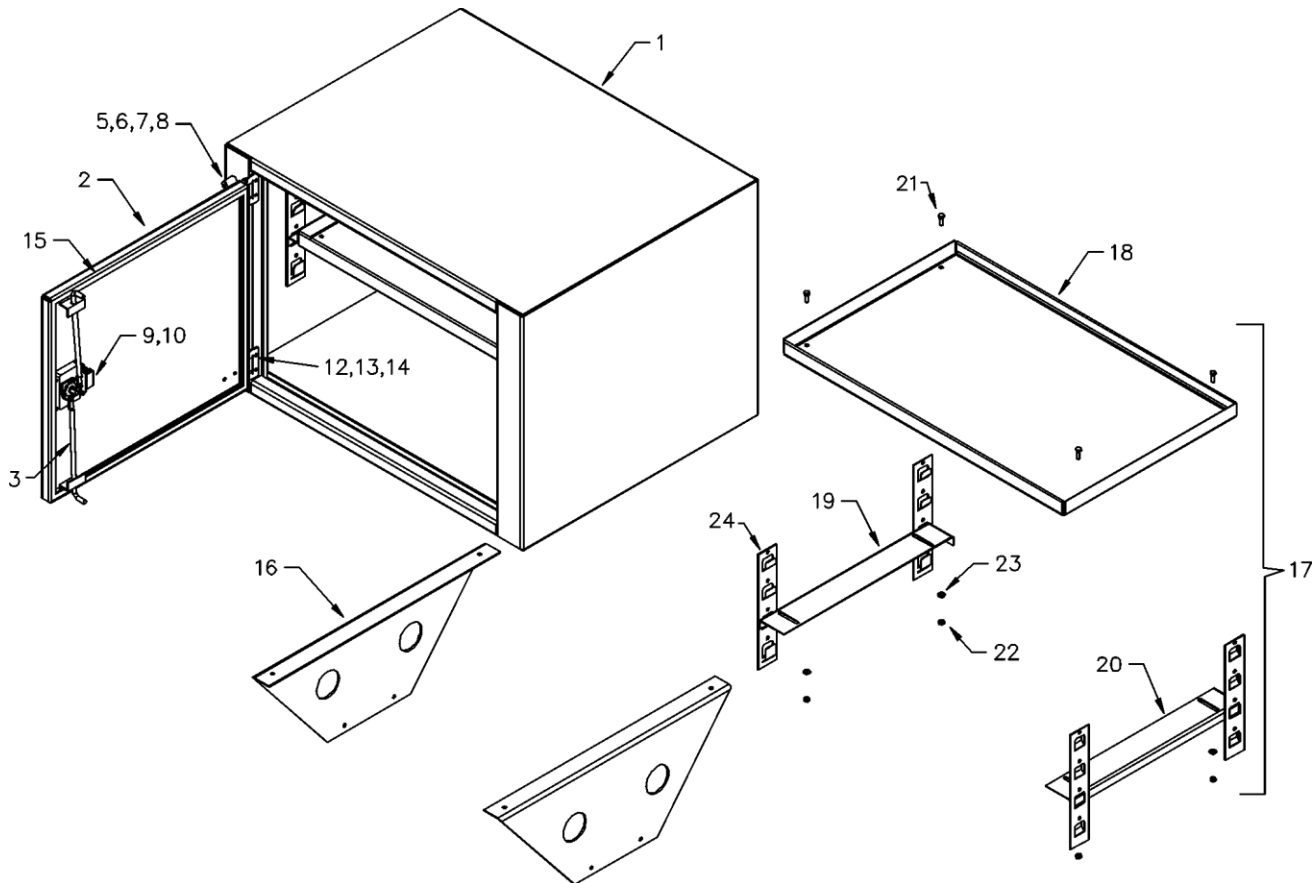
COMPARTMENT-ALUM. 24.5Hx54Wx28.5D (51715815)

	BLACK	CHROME RECTANGULAR		
1.	52715814	52715814	COMPT-24.5Hx54Wx28.5D	1
2.	52715817	52715817	DOOR-21.38x24.19 W/O LATCH	1
3.	52725072	52715816	DOOR-21.38x22.56 W/LATCH	1
4.	60128609	60112501	ROD-DOOR 10.62 LG	2
5.	70034366	70034366	PLUG-BUTTON 1-1/8 HOLE	2
6.	76039990	76039990	BUMPER-RUBBER	2
7.	72060636	72060636	MACH SCR #10-24x1	2
8.	72062123	72062123	NUT #10-24 NYLOC SS	2
9.	72063181	72063181	WASHER #10 SS	2
10.	72661599	72661510	LATCH-2PT	1
	N/A	72661527	CYLINDER/KEY	REF
	N/A	94732135	PIN & WASHER KIT	REF
11.	N/A	76393253	LATCH GASKET W/ STUDS	1
12.	72661383	72661383	HINGE-STAINLESS STEEL	4
13.	72601652	72601652	MACH SCR ¼-20X¾ TORX-SS	16
14.	72063166	72063166	WASHER ¼ SS	16
15.	72062194	72062194	NUT ¼-20 NYLOC SS	16
16.	89393607	89393607	WEATHERSTRIP .62X.50	11ft
17.	89393638	89393638	WEATHERSTRIP .75X.38	2ft
18.	70394464	70394464	PLUG-PLASTIC	2
19.	60122243	60122243	BRACKET-MOUNTING	2
20.	51707376	51707376	SHELF-ADJUSTABLE 21x51-50	1
21.	60110979	60110979	SHELF-21x50 (part of 20)	1
22.	60110251	60110251	END-ADJ. SHELF LH 21 (part of 20)	1
23.	60110252	60110252	END-ADJ. SHELF RH 21(part of 20)	1
24.	72060025	72060025	CAP SCR 5/16-18x1 (part of 20)	4
25.	72062109	72062109	NUT 5/16-18 NYLOC Z (part of 20)	4
26.	72063001	72063001	WASHER ¼ WRT (part of 20)	4
27.	60025545	60025545	HANGER BRACKET (part of 1)	2



COMPARTMENT-ALUM. 24.5Hx36Wx28.5D (51715911)

	BLACK	CHROME RECTANGULAR		
1.	52715912	52715912	COMPT-24.5Hx36Wx28.5D	1
2.	52725071	52715913	DOOR-21.38x29.06 ALUM	1
3.	60128609	60112501	ROD-DOOR 10.62 LG	2
4.	70034366	70034366	PLUG-BUTTON 1-1/8 HOLE	2
5.	76039990	76039990	BUMPER-RUBBER	1
6.	72060636	72060636	MACH SCR #10-24x1	1
7.	72062123	72062123	NUT #10-24 NYLOC SS	1
8.	72063181	72063181	WASHER #10 SS	1
9.	72661599	72661510	LATCH-2PT	1
	N/A	72661527	CYLINDER/KEY	REF
	N/A	94732135	PIN & WASHER KIT	REF
10.	N/A	76393253	LATCH GASKET W/STUDS	1
11.	72661383	72661383	HINGE-STAINLESS STEEL	2
12.	72601652	72601652	MACH SCR 1/4-20X3/4 TORX-SS	8
13.	72063166	72063166	WASHER 1/4 SS	8
14.	72062194	72062194	NUT 1/4-20 NYLOC SS	8
15.	89393607	89393607	WEATHERSTRIP .62X.50	8ft
16.	60122243	60122243	BRACKET-MOUNTING	2
17.	51707568	51707568	SHELF-ADJUSTABLE 21x35-39	1
18.	60114621	60114621	SHELF-21x34 (part of 20)	1
19.	60110251	60110251	END-ADJ SHELF LH 21 (part of 20)	1
20.	60110252	60110252	END-ADJ SHELF RH 21 (part of 20)	1
21.	72060025	72060025	CAP SCR 5/16-18x1 (part of 20)	4
22.	72062109	72062109	NUT 5/16-18 NYLOC Z (part of 20)	4
23.	72063001	72063001	WASHER 1/4 WRT (part of 20)	4
24.	60025545	60025545	HANGER BRACKET (part of 1)	2



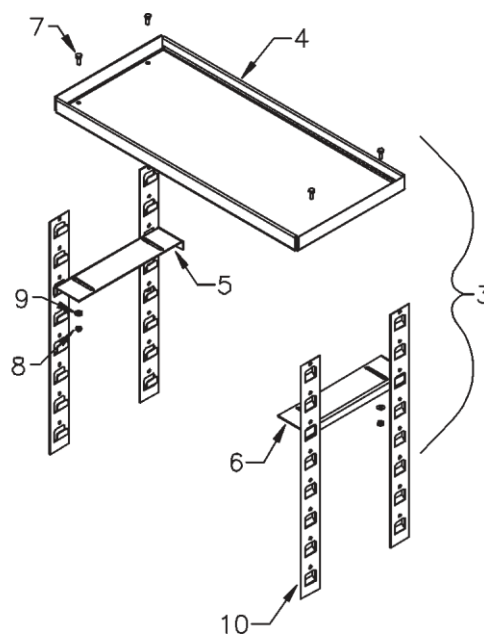
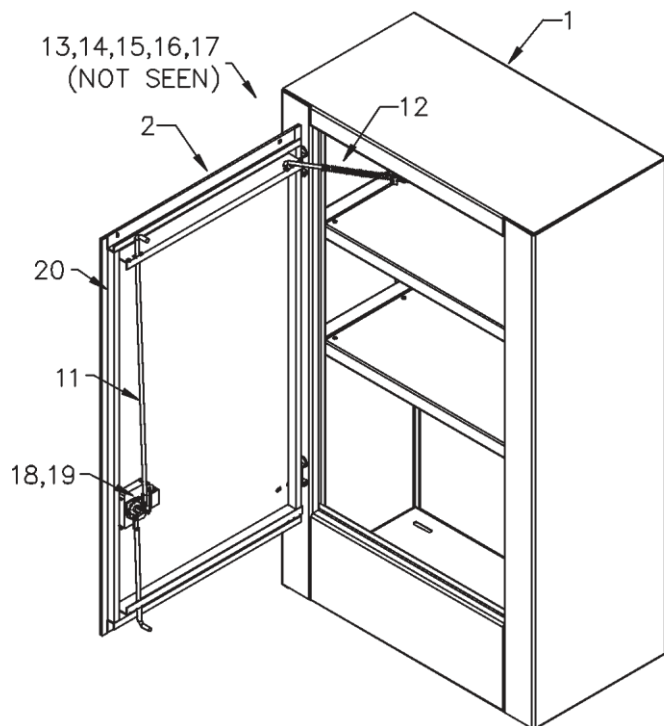
CABINET-FILTER-SGL DOOR

A. 51716255 51Hx30Wx16D

B. 51708845 51Hx24Wx24D

C. 51715746 32Hx24Wx32D

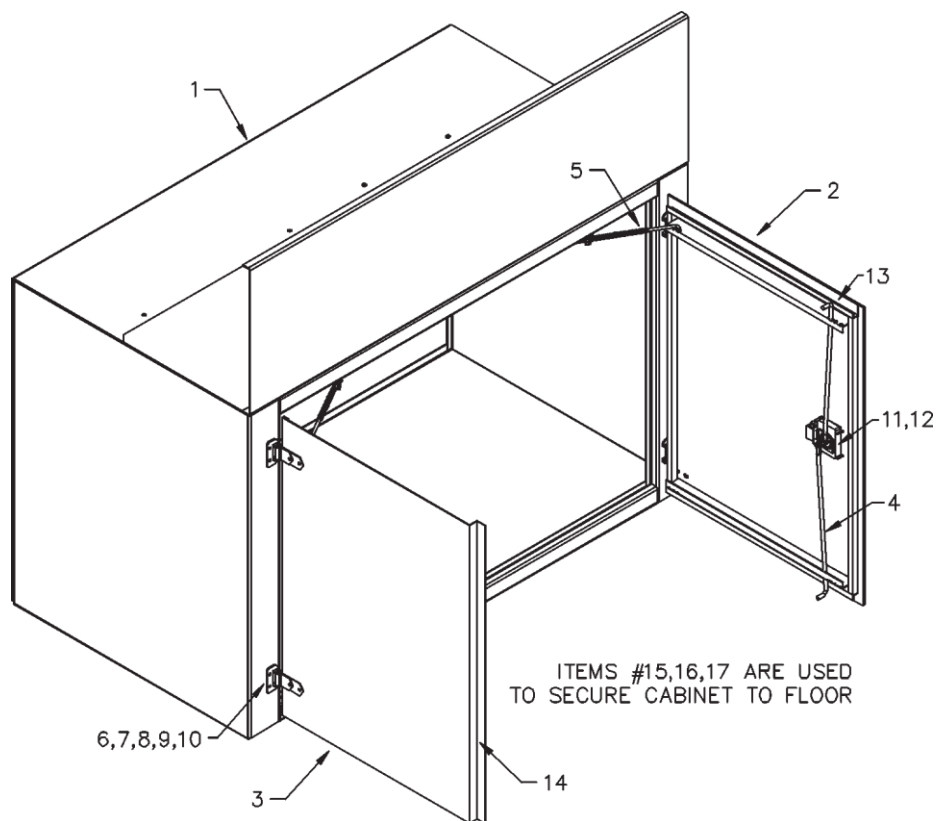
	BLACK LATCH	CHROME LATCH		<u>A</u>	<u>B</u>	<u>C</u>
1.	52716254	52716254	51Hx30Wx16D WELDMENT	1		
	52711647	52711647	51Hx24Wx24D WELDMENT		1	
	52715745	52715745	32Hx24Wx32D WELDMENT			1
2.	52725732	52716252	DOOR-40.88x26.63	1		
	52725069	52711211	DOOR-40.88x19.00		1	
	52724092	52713221	DOOR-26.12x19.00			1
3.	51716278	51716278	SHELF-ADJUSTABLE 13x30-34	2		
4.	60117340	60117340	SHELF-21x23.25		2	
	60122783	60122783	SHELF-13x29 (part of 3)	2		
5.	60112217	60112217	END-ADJ SHELF LH 13 (part of 3)	2		
6.	60112218	60112218	END-ADJ SHELF RH 13 (part of 3)	2		
7.	72060025	72060025	CAP SCR 5/16-18x1 (part of 3)	4		
8.	72062109	72062109	NUT 5/16-18 (part of 3)	4		
9.	72063001	72063001	WASHER ¼ WRT (part of 3)	4		
10.	60107744	60107744	HANGER BRACKET-24 (part of 1)	1		
	60107745	60107745	HANGER BRACKET-36" (part of 1)		1	
11.	60131464	60119066	ROD-DOOR 11.00 LG	1		
	60130819	60116589	ROD-DOOR 28.25 LG	1		
	60130299	60112517	ROD-DOOR 19.75 LG		2	
	60129190	60112502	ROD-DOOR 12.25 LG			2
12.	70144288	70144288	DOOR STOP/SPRING (part of 1)	1	1	
13.	72601652	72601652	MACH SCR ¼-20X¾ TORX-SS	8	8	8
14.	72063166	72063166	WASHER ¼ WRT	4	4	4
15.	72062194	72062194	NUT ¼-20 NYLOC SS	6	6	6
16.	72062264	72062264	WELD NUT ¼-20	2	2	2
17.	72661383	72661383	HINGE-STAINLESS STEEL	2	2	2
18.	N/A	76393253	LATCH GASKET	1	1	1
19.	72661599	72661510	LATCH 2PT W/ STUDS	1	1	1
	N/A	72661527	CYLINDER/KEY	REF	REF	REF
	N/A	94732135	PIN & WASHER KIT	REF	REF	REF
20.	89393607	89393607	WEATHERSTRIP .62x.50	11ft	10ft	8ft
21.	72060047	72060047	CAP SCR 3/8-16X1.25	4	4	4
22.	72062103	72062103	NUT 3/8-16 NYLOC Z	4	4	4
23.	72063003	72063003	WASHER 3/8 WRT Z	4	4	4



ITEMS #21,22,23 ARE USED
TO SECURE CABINET TO FLOOR

CABINET-FILTER-DBL DOOR W/ PANEL

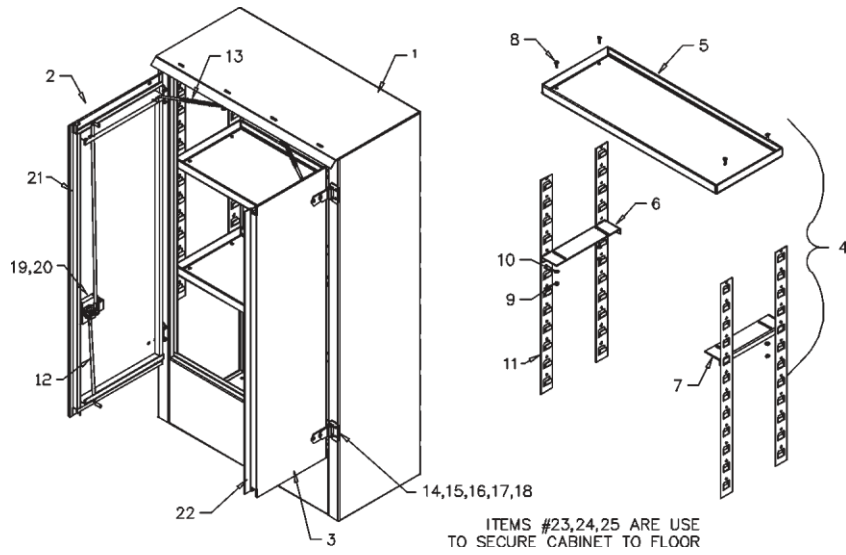
A.	51716113	40Hx63Wx34D		
B.	51716228	40Hx53Wx34D		
			<u>A</u>	<u>B</u>
1.	52716106	40Hx63Wx34D WELDMENT	1	
	52716227	40Hx53Wx34D WELDMENT		1
2.	52716102	DOOR-36.88x28.00 W/LATCH	1	
	52716230	DOOR-36.88x23.63 W/LATCH		1
3.	52716101	DOOR-36.88x27.25 W/O LATCH	1	
	52716231	DOOR-36.88x20.63 W/O LATCH		1
4.	60122595	ROD-DOOR 17.63 LG	1	1
5.	70144288	DOOR STOP/SPRING (part of 1)	1	1
6.	72601652	MACH SCR ¼-20X¾ TORX-SS	16	16
7.	72063166	WASHER ¼ WRT	8	8
8.	72062194	NUT ¼-20 NYLOC SS	12	12
9.	72062264	WELD NUT ¼-20	4	4
10.	72661383	HINGE-STAINLESS STEEL	4	4
11.	76393253	LATCH GASKET	1	1
12.	72661510	LATCH 2PT W/STUDS	1	1
	72661527	CYLINDER/KEY	REF	REF
	94732135	PIN & WASHER KIT	REF	REF
13.	89393607	WEATHERSTRIP .62x.50	15ft	13.5ft
14.	89393638	WEATHERSTRIP .75x.38	3.5ft	3.5ft
15.	72060047	CAP SCR 3/8-16x1.25	4	4
16.	72062103	NUT 3/8-16 NYLOC Z	4	4
17.	72063003	WASHER 3/8 WRT Z	4	4



CABINET-FILTER-DBL DOOR

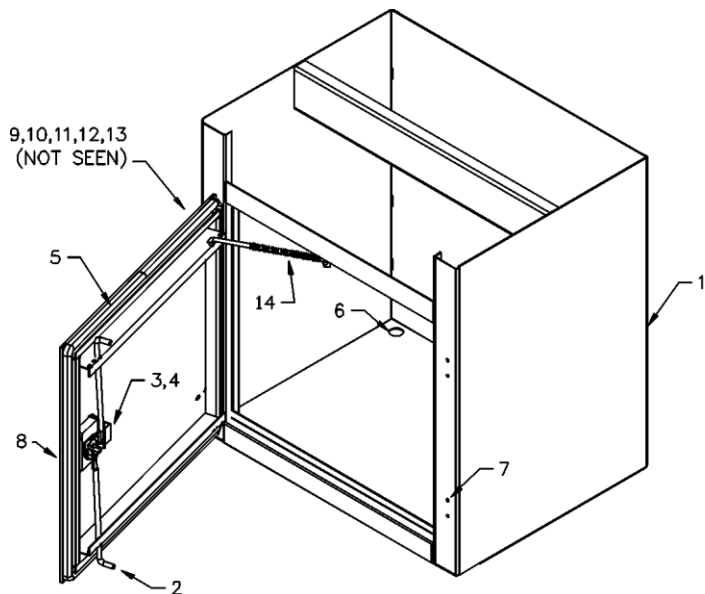
- A. 51716070 FILTER CABINET – 61Hx35Wx16D
 B. 51715744 FILTER CABINET – 61Hx35Wx24D
 C. 51708846 FILTER CABINET – 51Hx35Wx24D
 D. 51714273 FILTER CABINET – 51Hx35Wx34D
 E. 51715795 FILTER CABINET – 77Hx35Wx24D

	BLACK LATCH	CHROME LATCH		<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>
1.	52716071	52716071	CABINET-61Hx35Wx16D	1				
	52715743	52715743	CABINET-61Hx35Wx24D		1			
	52713217	52713217	CABINET-51Hx35Wx24D			1		
	52714274	52714274	CABINET-51Hx35Wx34D				1	
	52715796	52715796	CABINET-77Hx35Wx24D					1
2.	52725731	52716314	DOOR-48.88x18.00 W/LOW LATCH	1				
	52725729	52715747	DOOR-48.88x18.00 W/LATCH		1			
	52725070	52713218	DOOR-40.88x16.00 W/LATCH			1	1	
	52725730	52715801	DOOR-68.25x16.00 W/LATCH					1
3.	52713089	52713089	DOOR-48.88x13.63 W/O LATCH	1	1			
	52711282	52711282	DOOR-40.88x15.63 W/O LATCH			1	1	
	52715797	52715797	DOOR-68.25x15.63 W/O LATCH					1
4.	51708250	51708250	SHELF-ADJ 13X35-39	2				
	51707568	51707568	SHELF-ADJ 21X35-39		2	2		2
5.	60120829	60120829	SHELF-30X34.5				2	
	60114615	60114615	SHELF-13X34 (part of 4)	2				
	60114621	60114621	SHELF-21X34 (part of 4)		2	2		2
6.	60112217	60112217	END-ADJ SHELF LH 13 (part of 4)	2				
	60110251	60110251	END-ADJ SHELF LH 21 (part of 4)		2	2		2
7.	60112218	60112218	END-ADJ SHELF RH 13 (part of 4)	2				
	60110252	60110252	END-ADJ SHELF RH 21 (part of 4)		2	2		2
8.	72060025	72060025	CAP SCR 5/16-18X1 (part of 4)	4	4	4		4
9	72062109	72062109	NUT 5/16-18 NYLOC Z (part of 4)	4	4	4		4
10.	72063001	72063001	WASHER ¼ WRT Z (part of 4)	4	4	4		4
11.	60107745	60107745	HANGER BRACKET-36 (part of 1)	1	1	1	1	1
12.	60130090	60122823	ROD-DOOR 13.63 LG	1				
	60132697	60113869	ROD-DOOR 33.63 LG	1				
	60130298	60113852	ROD-DOOR 23.69 LG		2			
	60130299	60112517	ROD-DOOR 19.75 LG			2	2	
	60129192	60117698	ROD-DOOR 33.44 LG					2
13.	70144288	70144288	DOOR STOP/SPRING (part of 1)	1	1	1	1	1
14.	72601652	72601652	MACH SCR ¼-20X¾ TORX-SS	16	16	16	16	16
15.	72062194	72062194	NUT ¼-20 NYLOC SS	12	12	12	12	12
16.	72063166	72063166	WASHER ¼ SS	8	8	8	8	8
17.	72062264	72062264	WELD NUT ¼-20	4	4	4	4	4
18.	72661383	72661383	HINGE-STAINLESS STEEL	4	4	4	4	4
19.	N/A	76393253	LATCH GASKET	1	1	1	1	1
20.	72661599	72661510	LATCH 2PT W/STUDS	1	1	1	1	1
	N/A	72661527	CYLINDER/KEY	REF	REF	REF	REF	REF
	N/A	94732135	PIN & WASHER KIT	REF	REF	REF	REF	REF
21.	89393607	89393607	WEATHERSTRIP .62X.50	12.5ft	18ft	16ft	16ft	18ft
22.	89393638	89393638	WEATHERSTRIP .75X.38	4.5ft	4.5ft	4ft	4ft	5.5ft
23.	72060047	72060047	CAP SCR 3/8-16X1.25 HHGR5 Z	4	4	4	4	4
24.	72062103	72062103	NUT 3/8-16 NYLOC Z	4	4	4	4	4
25.	72063003	72063003	WASHER 3/8 WRT Z	4	4	4	4	4

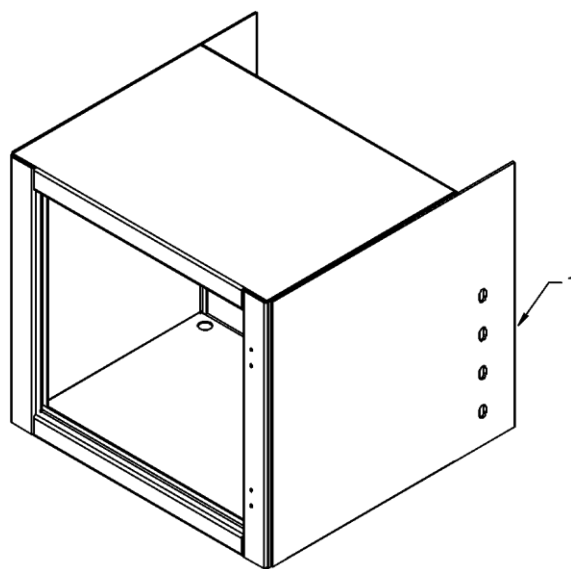


UNDERBODY TOOLBOX-SGL DOOR**A. UBTB – 25Hx20Lx21D (STYLE 1)****B. UBTB – 25Hx28Lx21D (STYLE 1)****C. UBTB – 25Hx27Lx21D (STYLE 2)**

		<u>A</u>	<u>B</u>	<u>C</u>
1.	52711720 25Hx20Lx21D WELDMENT	1		
	52711722 25Hx28Lx21D WELDMENT		1	
	52716290 25Hx27Lx21D WELDMENT			1
2.	60117449 ROD-DOOR 10.25 LG	2	2	2
3.	72661510 LATCH-2PT	1	1	1
	72661527 CYLINDER/KEY	REF	REF	REF
	94732135 PIN & WASHER KIT	REF	REF	REF
4.	76393253 LATCH GASKET W/STUDS	1	1	1
5.	89393607 WEATHERSTRIP .62x.50	7ft	7ft	7ft
6.	70034366 PLUG-BUTTON 1-1/8 HOLE	2	2	2
7.	70393719 PLUG-PLASTIC .226 HOLE	4	4	
8.	52711752 DOOR 22.13Hx15.63W (part of 1)	1		
	52711734 DOOR 22.13Hx23.63W (part of 1)		1	1
9.	72661383 HINGE-STAINLESS STEEL (part of 1)	2	2	2
10.	72601652 MACH SCR ¼-20X3/4 (part of 1)	8	8	8
11.	72063166 WASHER ¼ SS (part of 1)	6	6	6
12.	72062264 WELD NUT ¼-20 (part of 1)	2	2	2
13.	72062194 NUT ¼-20 NYLOC SS (part of 1)	6	6	6
14.	70144288 DOOR STOP/SPRING (part of 1)	1	1	1



STYLE 1

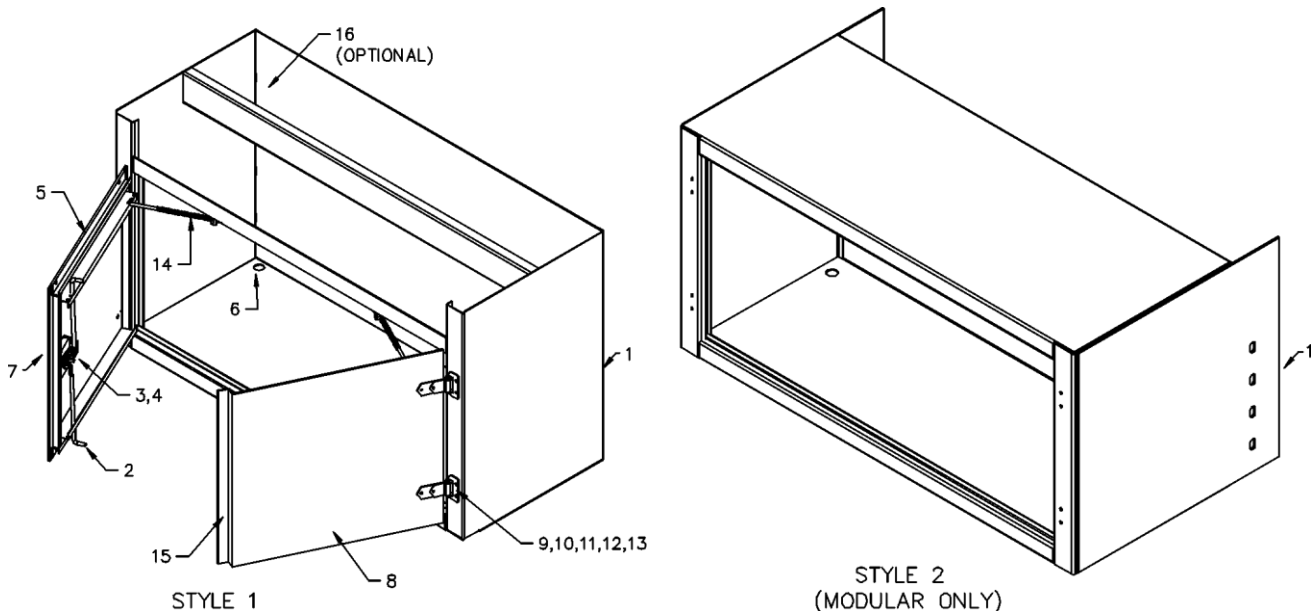
STYLE 2
(MODULAR ONLY)

UNDERBODY TOOLBOX-DBL DOOR

- A. UBTB – 25Hx36Lx21D (STYLE 1)
 B. UBTB – 25Hx52Lx21D (STYLE 1)
 C. UBTB – 27Hx52Lx28D (STYLE 1)
 D. UBTB – 25Hx52Lx21D (STYLE 2)
 E. UBTB – 25Hx27Lx21D (STYLE 2)

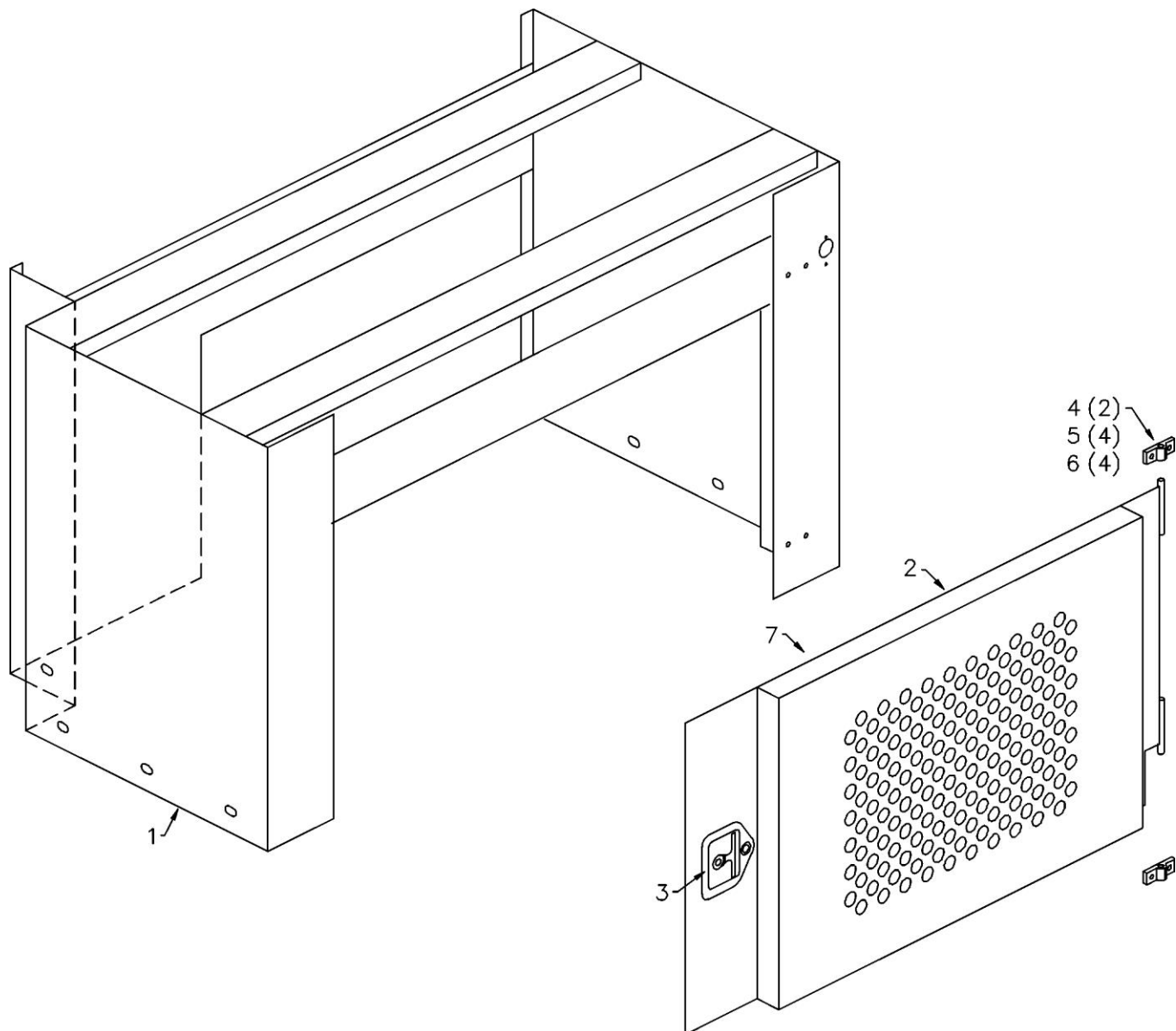
		<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>
1.	52711724 25Hx36Lx21D WELDMENT	1				
	52711726 25Hx52Lx21D WELDMENT		1			
	52711728 27Hx52Lx28D WELDMENT			1		
	52716269 25Hx52Lx21D WELDMENT				1	
	52716398 25Hx27Lx21D WELDMENT					1
2.	60117449 ROD-DOOR 10.25" LG	2	2		2	2
	60117450 ROD-DOOR 11.25" LG			2		
3.	72661510 LATCH-2PT	1	1	1	1	1
	72661527 CYLINDER/KEY	REF	REF	REF	REF	REF
	94732135 PIN & WASHER KIT	REF	REF	REF	REF	REF
4.	76393253 LATCH GASKET W/STUDS	1	1	1	1	1
5.	89393607 WEATHERSTRIP .62x.50	9ft	12ft	12ft	12ft	9ft
6.	70034366 PLUG-BUTTON 1-1/8 HOLE	2	2	2	2	2
7.	52711752 DOOR-22.13HX16.00W W/LATCH					*1 (effective from 06-11-2015)
	52711733 DOOR-22.13HX16.00W W/LATCH	*1				*1
	52711734 DOOR-22.13HX23.63W W/LATCH		*1		*1	
	52711735 DOOR-24.13HX23.63W W/LATCH			*1		
8.	52711736 DOOR-22.13HX15.63W W/O LATCH	*1				*1
	52711732 DOOR-22.13HX23.63W W/O LATCH		*1		*1	
	52711731 DOOR-24.13HX23.63W W/O LATCH			*1		
9.	72661383 HINGE-STAINLESS STEEL	*4	*4	*4	*4	*4
10.	72601652 MACH SCR ¼-20X3/4 TORX-SS	*16	*16	*16	*16	*16
11.	72063166 WASHER ¼ SS	*12	*12	*12	*12	*12
12.	72062264 WELD NUT ¼-20	*4	*4	*4	*4	*4
13.	72062194 NUT ¼-20 NYLOC SS	*12	*12	*12	*12	*12
14.	70144288 DOOR STOP/SPRING	*2	*2	*2	*2	*2
15.	89393638 WEATHERSTRIP .75X.38	*2ft	*2ft	*2ft	*2ft	*2ft
16.	70034290 PLUG-BUTTON 1-¼ HOLE (option)		1			

* Part of item 1.



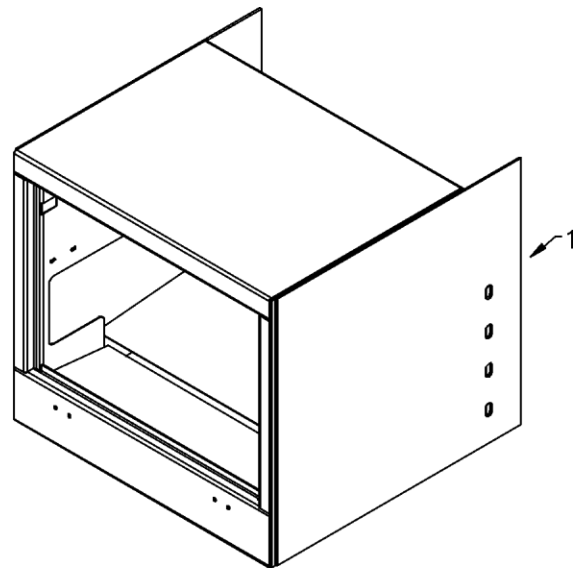
UNDERBODY COMPRESSOR COMPT 24Hx52Lx27D

1.	52706068	24"H X 52"L X 27"D WELDMENT	
2.	52706070	DOOR-WELDMENT	
3.	72066394	LATCH 1PT-WELD IN (PART OF 2)	1ref
4.	60020054	HINGE-BRASS	2
5.	72060025	CAP SCR 5/16-18X1 HHGR5	4
6.	72062109	NUT 5/16-18 NYLOC ZINC	4
7.	89393607	WEATHERSTRIP .62X.50	12ft

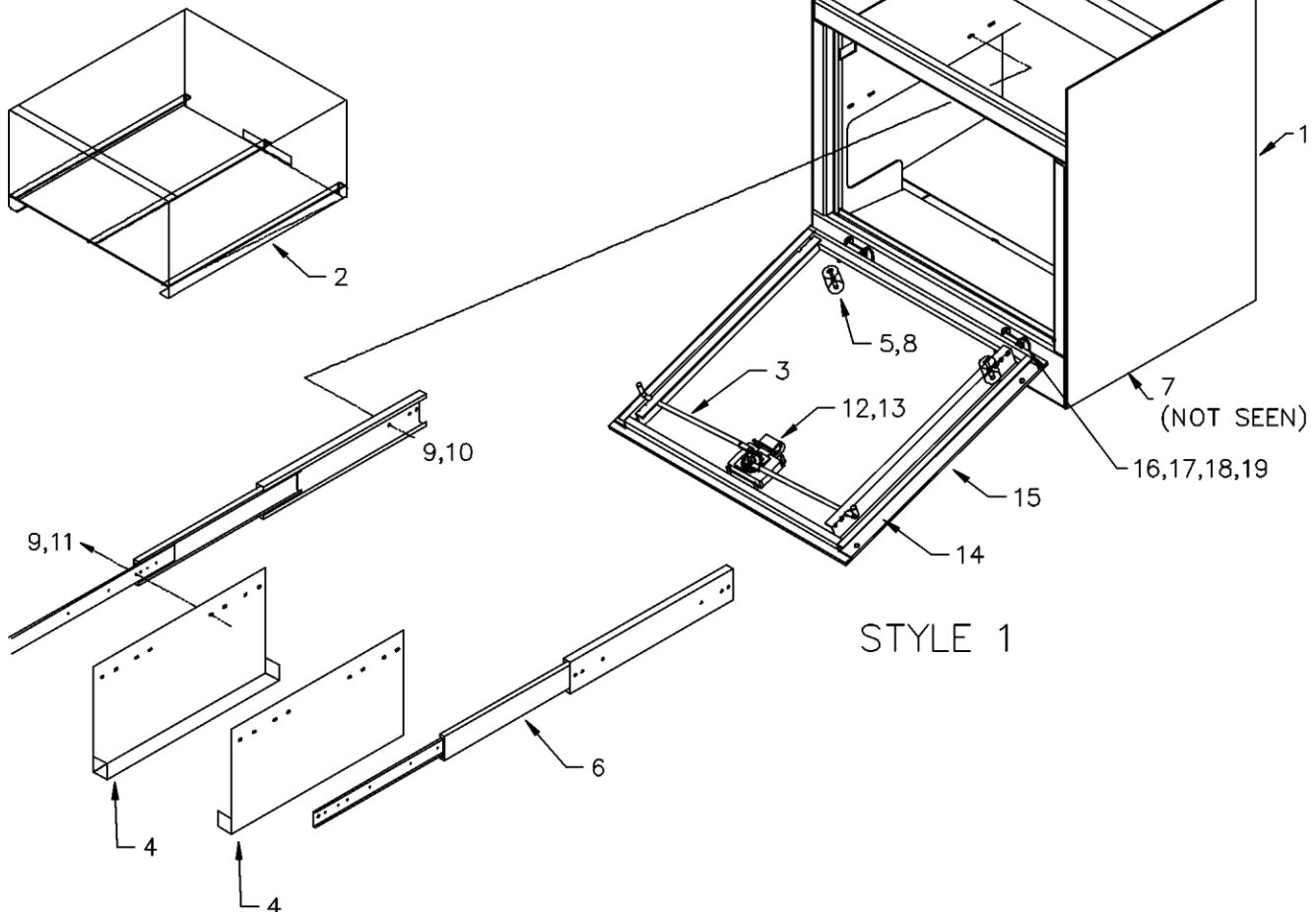


UNDERBODY FILTER DRAIN BOX**A. UBTB – 24HX28LX21D FILTER DRAIN COMPT (STYLE 1)****B. UBTB – 24HX28LX21D FILTER DRAIN COMPT (STYLE 2)**

		A	B
1.	52713132 24HX28LX21D WELDMENT	1	
	52716293 24HX28LX21D WELDMENT		1
2.	52713133 DRAWER-FILTER DRAIN	1	1
3.	60112502 ROD-DOOR 12.25 LG	2	2
4.	60119250 BRACKET-ROLL OUT BOX R/L	2	2
5.	70391615 BUMPER-RUBBER	2	2
6.	70731871 DRAWER SLIDE-18 LG	2	2
7.	72053248 PLUG-PIPE SQHD 1"	1	1
8.	72060711 CAP SCR ¼-20X2 SH	2	2
9.	72062106 NUT #10-24 HEX NYLOC ZINC	16	16
10.	72601283 MACH SCR #10-24X.50 PN SL ZINC	8	8
11.	72601284 MACH SCR #10-24X.62 FLH SL ZINC	8	8
12.	72661510 LATCH-2PT	1	1
	72661527 CYLINDER/KEY	REF	REF
	94732135 PIN & WASHER KIT	REF	REF
13.	76393253 LATCH GASKET W/STUDS	1	1
14.	89393607 WEATHERSTIP .62X.50	6ft	6ft
15.	52713221 DOOR-WELDMENT (part of 1)	1	1
16.	72062194 NUT ¼-20 NYLOC SS (part of 1)	2	2
17.	72062264 NUT ¼-20 WELD (part of 1)	2	2
18.	72601652 MACH SCR ¼-20X¾ TORX (part of 1)	6	6
19.	72661383 HINGE-STAINLESS STEEL (part of 1)	2	2



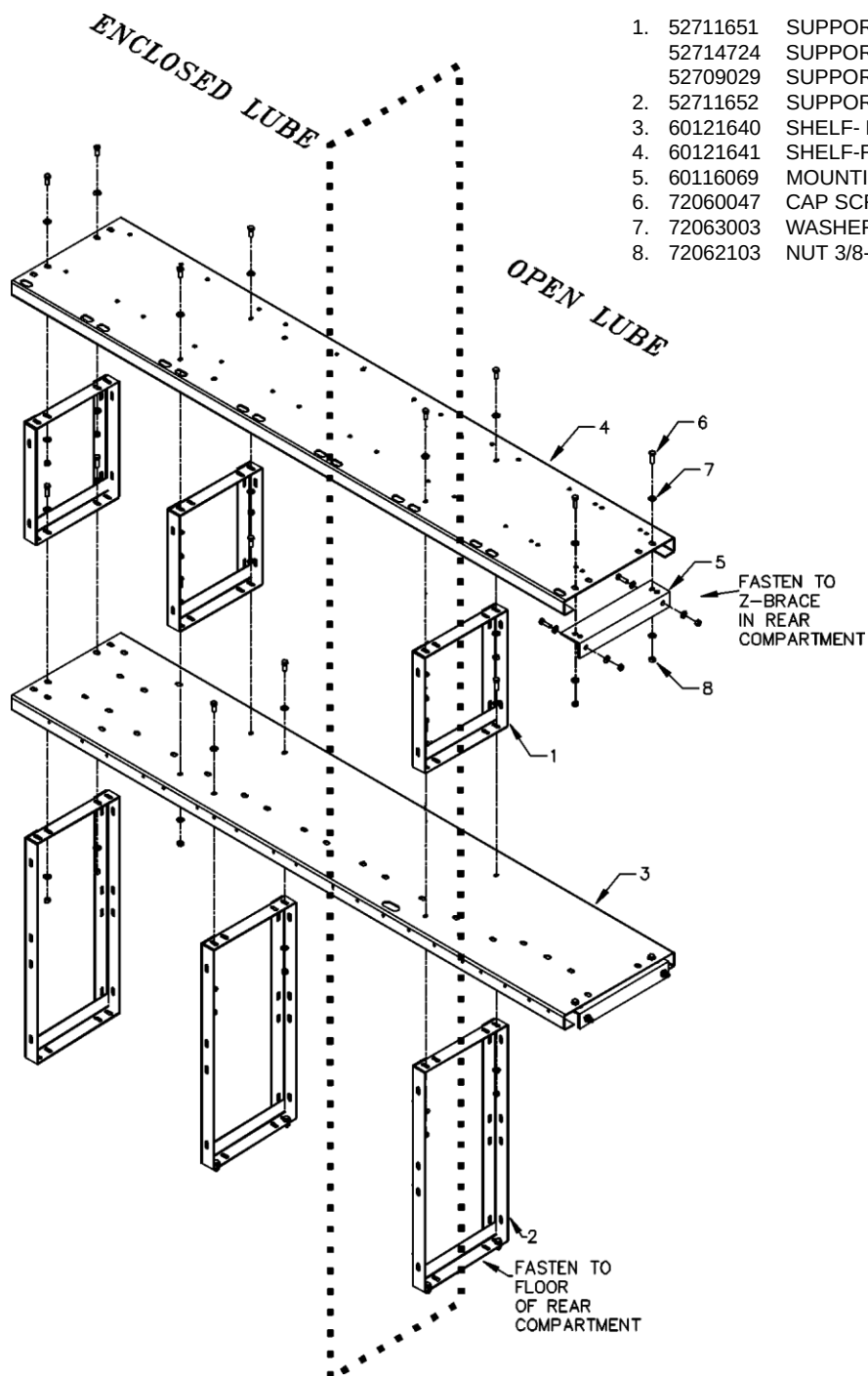
STYLE 2
(MODULAR ONLY)



SHELF ASSEMBLY

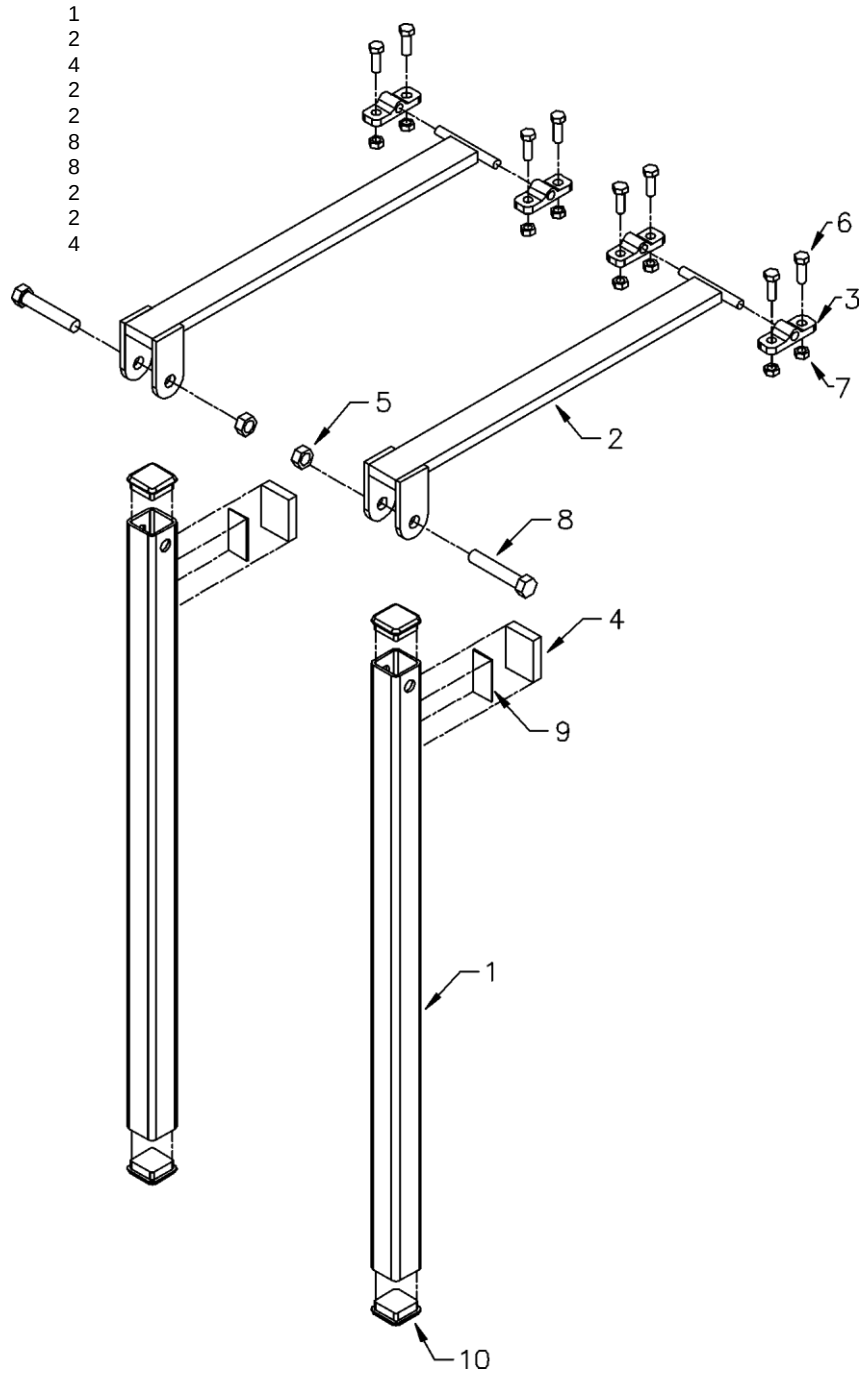
A. OPEN LUBE B. ENCLOSED LUBE

		<u>A</u>	<u>B</u>
1.	52711651 SUPPORT-REEL SHELF 15.75 STRAIGHT	2	2
	52714724 SUPPORT-REEL SHELF 25.75 STRAIGHT	2	2
	52709029 SUPPORT-REEL SHELF 29.25 STRAIGHT	2	2
2.	52711652 SUPPORT-REEL SHELF 29.75 SLANTED	2	4
3.	60121640 SHELF- PUMP	1	1
4.	60121641 SHELF-REEL	1	1
5.	60116069 MOUNTING ANGLE-SHELF	4	
6.	72060047 CAP SCR 3/8-16x1-1/4	28	26
7.	72063003 WASHER 3/8 WRT	56	52
8.	72062103 NUT 3/8-16	28	26



LADDER-FOLD DOWN (51706063)

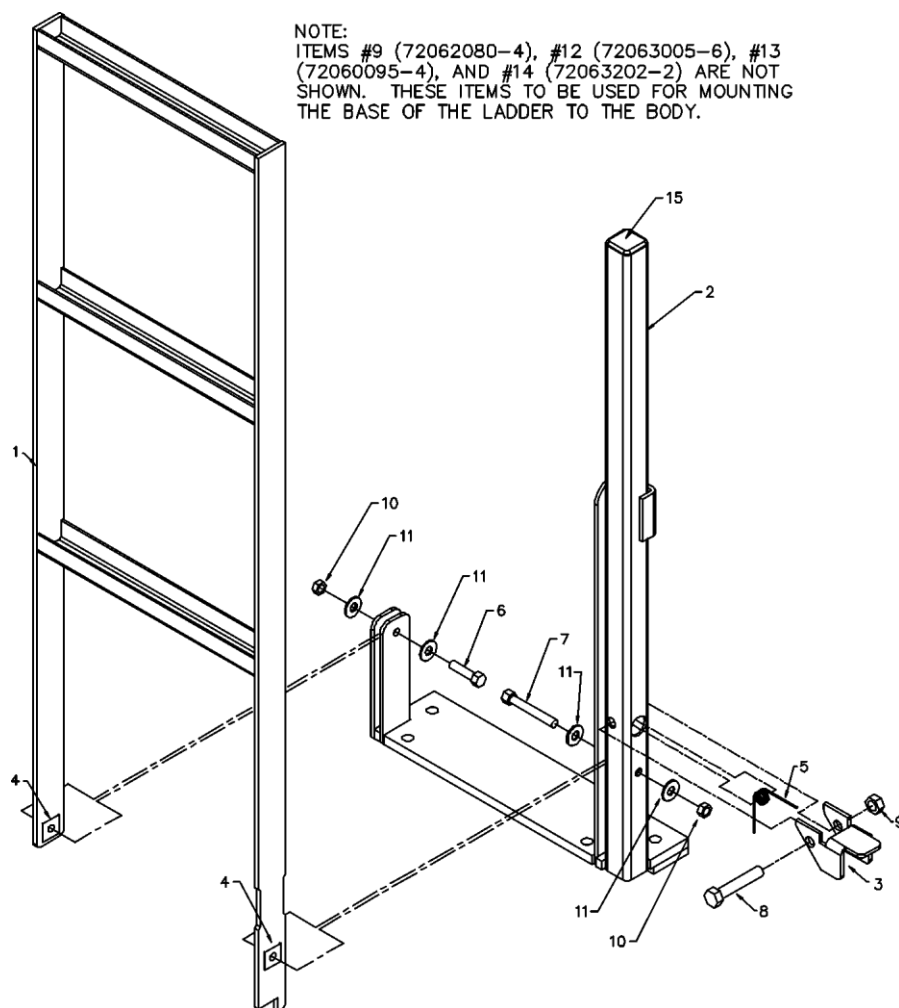
- | | | | |
|-----|----------|----------------------------|---|
| 1. | 52709059 | LADDER-WELDMENT | 1 |
| 2. | 52709060 | LINK-WELDMENT | 2 |
| 3. | 60020054 | HINGE-BRASS 2 HOLE | 4 |
| 4. | 60113154 | WEAR PAD-.44X1.5X2 | 2 |
| 5. | 72062080 | NUT ½-13 | 2 |
| 6. | 72060025 | CAP SCR 5/16-18X1 | 8 |
| 7. | 72062109 | NUT 5/16-18 | 8 |
| 8. | 72060986 | CAP SCR ½-13X2.75 | 2 |
| 9. | 70086054 | TAPE-1.00 ACRYLIC STRUCT | 2 |
| 10. | 70392310 | PLUG-PLASTIC 1.5 SQ X 11GA | 4 |



LADDER-FOLD DOWN VERTICAL (41716011)

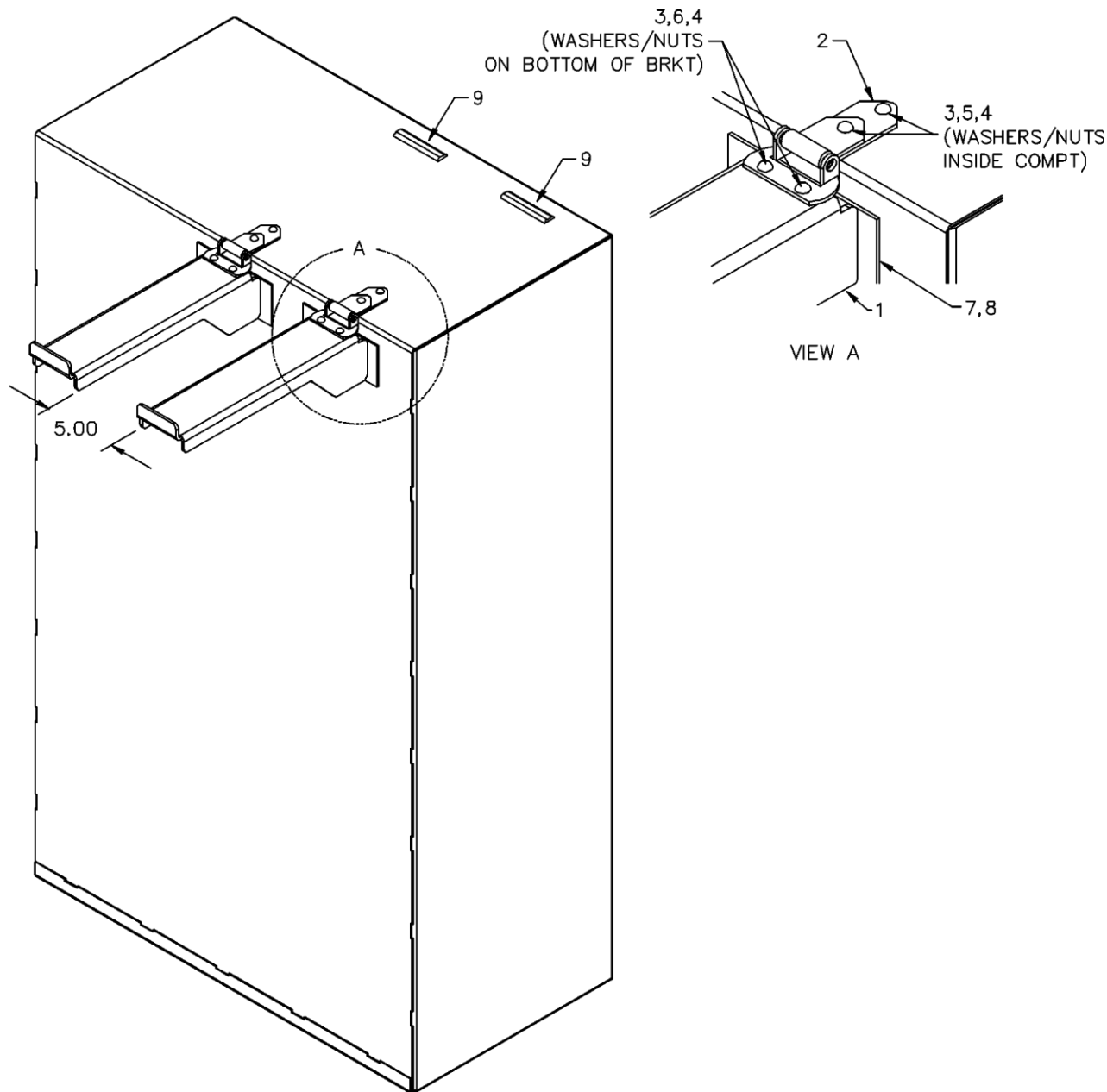
1.	52716009	LADDER-WELDMENT	1
2.	52716010	LADDER BASE-WELDMENT	1
3.	60122528	LATCH	1
4.	60122542	PIVOT BUSHING	2
5.	70146123	SPRING-TORSION 90DEG.	1
6.	72060049	CAP SCR 3/8-16X1.75	1
7.	72060053	CAP SCR 3/8-16X2.75	1
8.	72060986	CAP SCR ½-13X2.75	1
9.	72062080	NUT ½-13 NYLOC	5
10.	72062231	NUT 3/8-16 TOP LOCK	2
11.	72063003	WASHER 3/8 WRT	4
12.	72063005	WASHER ½ WRT	6
13.	72060095	CAP SCR ½-13X2	4
14.	72063202	WASHER ½ BEVELED	2
15.	70392310	PLUG-PLASTIC 1.5 SQ	1

NOTE:
ITEMS #9 (72062080-4), #12 (72063005-6), #13 (72060095-4), AND #14 (72063202-2) ARE NOT SHOWN. THESE ITEMS TO BE USED FOR MOUNTING THE BASE OF THE LADDER TO THE BODY.



PUMP HOLDER-120# GREASE (51716077)

1.	60250775	BRACKET-PUMP HOLDER	2
2.	72661383	HINGE-STAINLESS STEEL	2
3.	72601652	MACH SCR ¼-20X.75 TORX SS	8
4.	72062194	NUT ¼-20 SS	8
5.	76392820	WASHER ¼ BONDED	4
6.	72063166	WASHER ¼ SS	4
7.	60030318	WEAR PAD .12X5.88X3	2
8.	70086054	TAPE-1" ACRYLIC	1.5ft
9.	89391284	WEATHERSTRIP .19X.75	.5ft

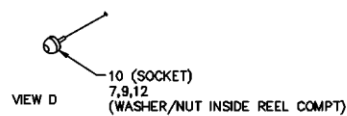
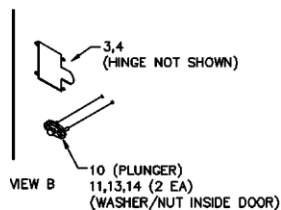
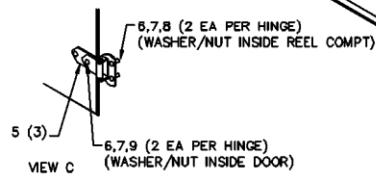
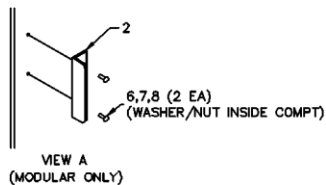
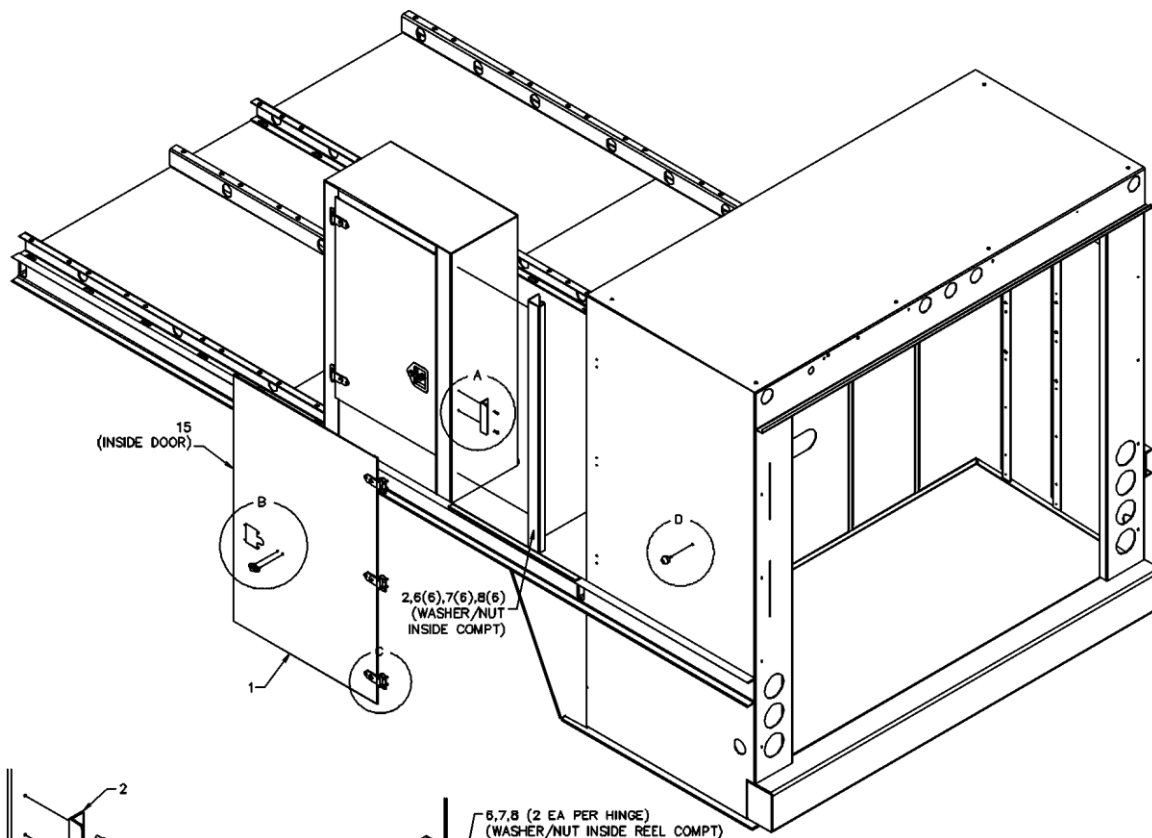


DOOR-SIDE ACCESS

A. 51716076 DOOR-SIDE ACCESS OPEN

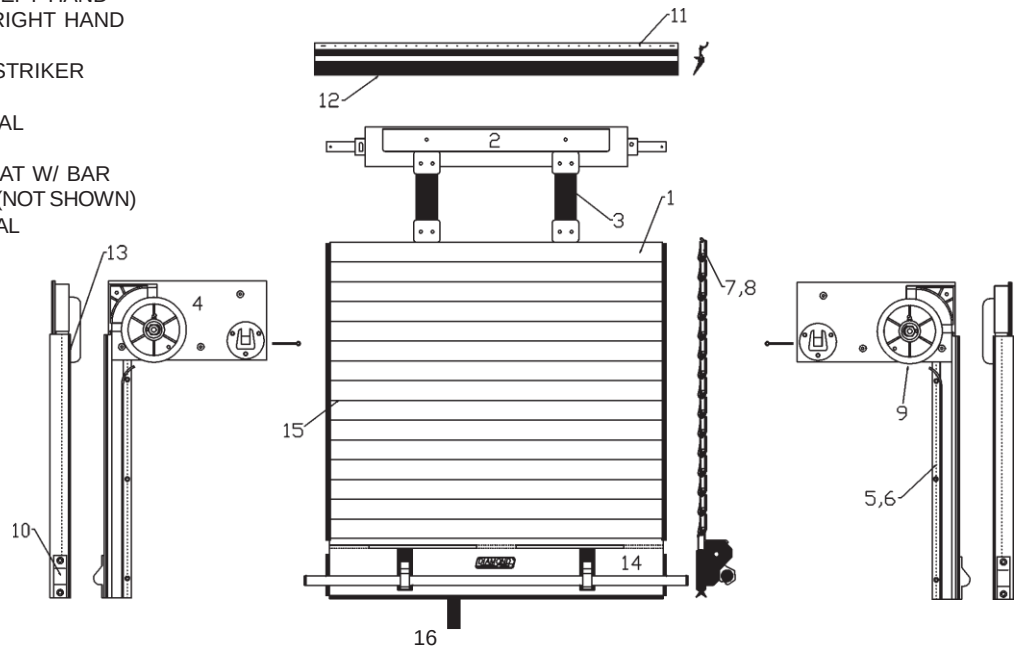
B. 51716290 DOOR-SIDE ACCESS OPEN (MODULAR ONLY)

		<u>A</u>	<u>B</u>
1.	60122825 DOOR-57.50X32	1	
	60122798 DOOR-50.25X34		1
2.	60122824 PANEL-LATCH CATCH	1	
	60250777 ANGLE-ALUM 1.54X1.54X6		1
3.	72661512 LATCH-3PT	1	1
4.	76393253 LATCH GASKET W/STUDS	1	1
5.	72661383 HINGE-STAINLESS STEEL	3	3
6.	72601652 MACH SCR ¼-20 X.75 TORX SS	18	14
7.	72062194 NUT ¼-20 NYLOC SS	19	15
8.	76392820 WASHER ¼ BONDED	12	8
9.	72063166 WASHER ¼ WRT SS	7	7
10.	72066376 PLUNGER/SOCKET	1	1
11.	72601552 MACH SCR #10-24X2 SS	2	2
12.	72601593 CAP SCR ¼-20X1.50	1	1
13.	72062123 NUT #10-24 NYLOC	2	2
14.	72063181 WASHER #10 WRT SS	2	2
15.	89391284 WEATHERSTRIP .19X.75	5ft	4.5ft



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

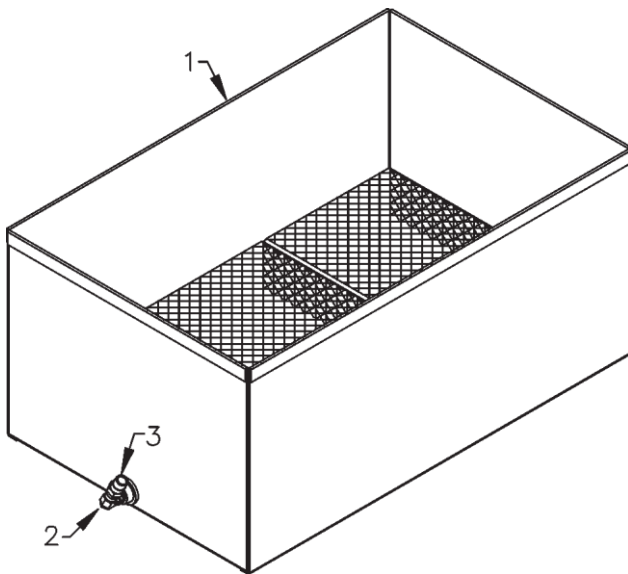
1. 70734671 BOX SLAT (WAS 70733547)
2. 70733548 COUNTER BALANCE
3. 70733549 COUNTER BALANCE STRAP
4. 70733550 BRACKET-WHEEL/COUNTER BALANCE
5. 70734672 SIDE GUIDE (WAS 70733551)
6. 70734673 FRONT GUIDE (WAS 70733552)
7. 70733553 SLAT CLIP LEFT HAND
8. 70733554 SLAT CLIP RIGHT HAND
9. 70733561 WHEEL
10. 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)
16. 76396438 BOTTOM SEAL

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

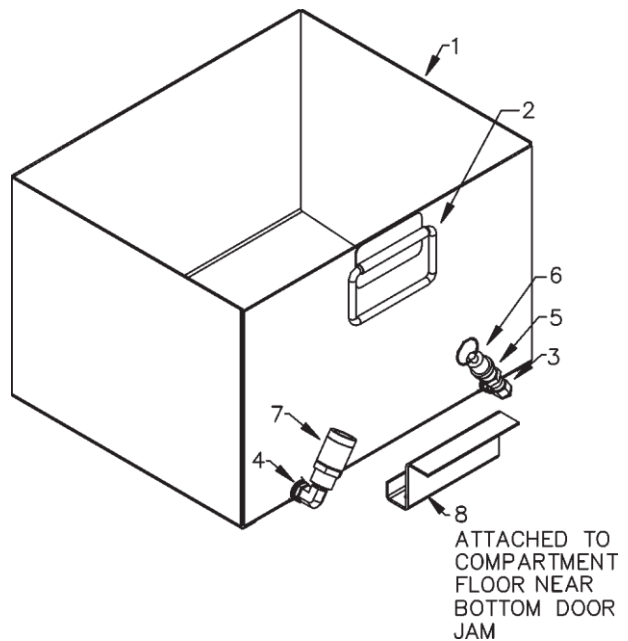
1. 70145904 SLAT W/ SIDE
5. 70733151 TRACK (2 EA)
7. 77041508 END SHOE
11. 70034442 DRIP RAIL
13. 76394328 SIDE SEAL

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

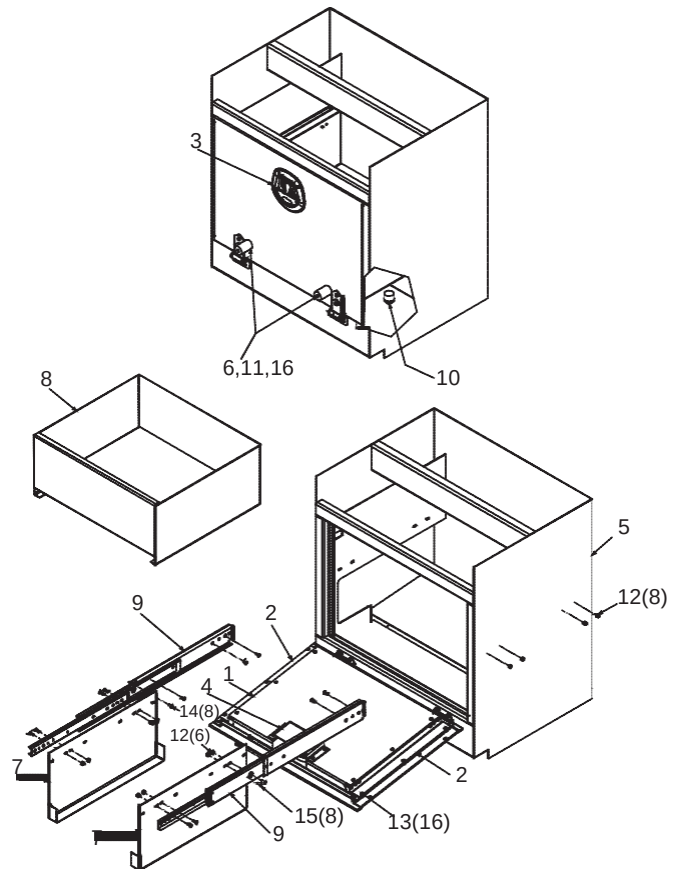
**DRAIN PAN ASM-16 GAL**

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



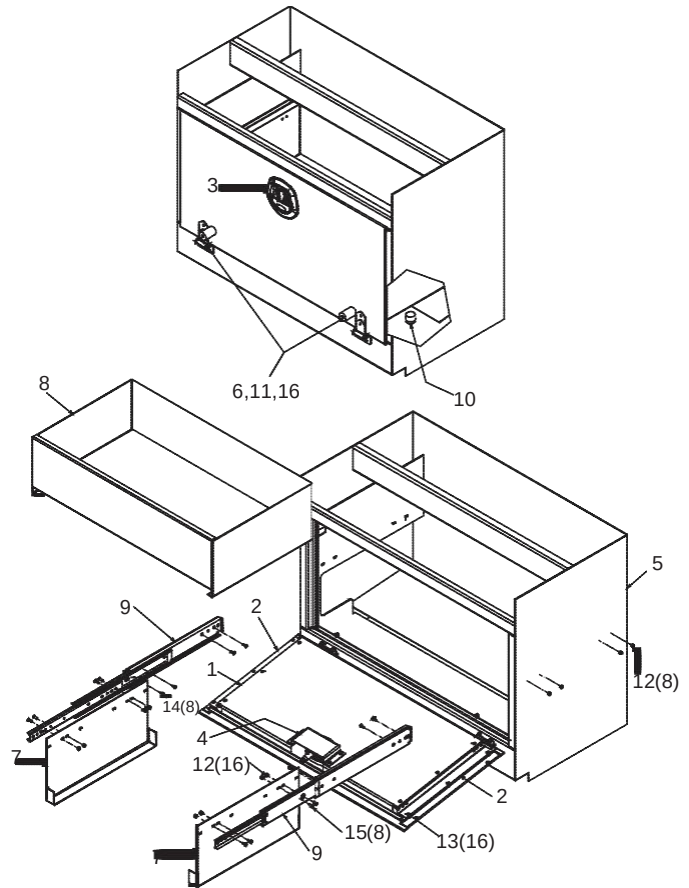
UNDERBODY TOOLBOX DRAIN, ROLL-OUT, 28" (51713131)

1.	60251414	PANEL-DOOR FILTER DRAIN UBTB	1
2.	60251415	ANGLE-DOOR FILTER DRAIN UBTB	2
3.	72661599	LATCH ASM-3PT	1
4.	60251416	CHANNEL-DOOR FILTER DRAIN UBTB	1
5.	52713132	COMPT-WLDMT LUBE DRAIN 28 IN WITH ROLLOUT	1
6.	70391615	BUMPER-RUBBER 1.25 DIA X 1.88	2
7.	60119250	BRACKET-ROLL OUT DRAIN BOX R/L	2
8.	52713133	DRAWER WELDMENT-LUBE DRAIN 28 IN	1
9.	70731871	DRAWER SLIDE 18in LG	2
10.	72053248	PLUG PIPE SQ HD BLK 1.00	1
11.	72060710	CAP SCREW .25-20 1.75 SH PLAIN	2
12.	72062106	NUT 10-24 HEX NYLOCK	16
13.	72661418	RIVET-POP AL .188 X .50 GRIP	16
14.	72601283	SCREW-MACHINERY #10-24X .50 PN	8
15.	72601284	SCREW-MACHY #10-24X .62 FLH SLTZ	8
16.	72062104	NUT .25-20 HEX NYLOCK	2



UNDERBODY TOOLBOX DRAIN, ROLL-OUT, 40" (51724256)

1.	60251476	PANEL-DOOR FILTER DRAIN UBTB	1
2.	60251415	ANGLE-DOOR FILTER DRAIN UBTB	2
3.	72661599	LATCH ASM-3PT	1
4.	60251416	CHANNEL-DOOR FILTER DRAIN UBTB	1
5.	52715480	COMPT-WLDMT LUBE DRAIN 40 IN WITH ROLLOUT	1
6.	70391615	BUMPER-RUBBER 1.25 DIA X 1.88	2
7.	60119250	BRACKET-ROLL OUT DRAIN BOX R/L	2
8.	52715481	DRAWER WELDMENT-LUBE DRAIN 40 IN	1
9.	70731871	DRAWER SLIDE 18in LG	2
10.	72053248	PLUG PIPE SQ HD BLK 1.00	1
11.	72060710	CAP SCREW .25-20 1.75 SH PLAIN	2
12.	72062106	NUT 10-24 HEX NYLOCK	16
13.	72661418	RIVET-POP AL .188 X .50 GRIP	16
14.	72601283	SCREW-MACHINERY #10-24X .50 PN	8
15.	72601284	SCREW-MACHY #10-24X .62 FLH SLTZ	8
16.	72062104	NUT .25-20 HEX NYLOCK	2



AIR TANK KIT-22 GAL FRAME MNT (51709804)7-3

AIR TANK DRAIN ASM7-3

AIR TANK KIT (51713450)7-4

FLR ASM 1/2” HOSE REEL (51713783)7-5

LUBRICATOR (70073375)7-6

FILTER (70145684)7-6

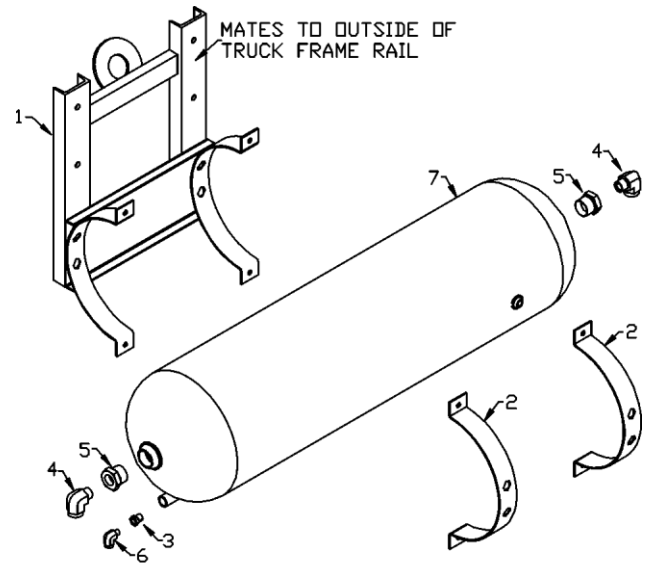
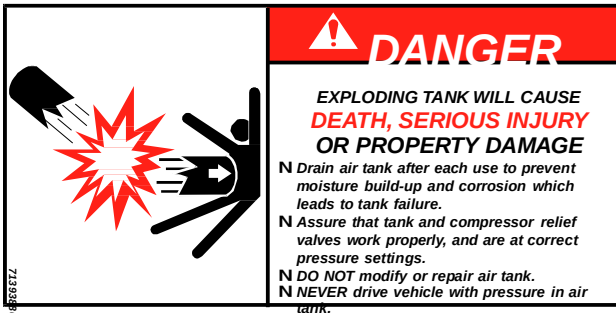
REGULATOR (70048101)7-7

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

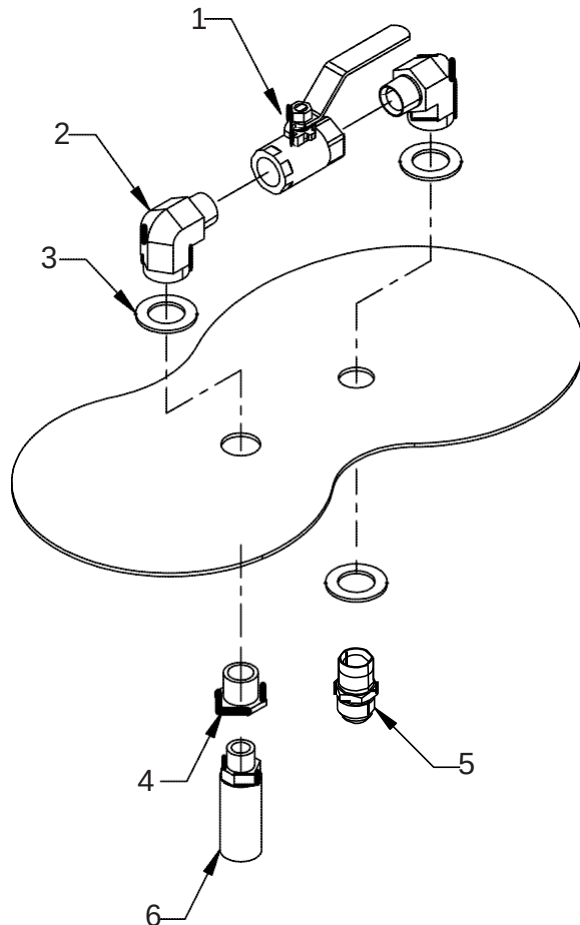


#8,#9,#10 ARE USED TO MOUNT THE TANK BRACKET (ITEM #1) TO THE TRUCK FRAME.

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

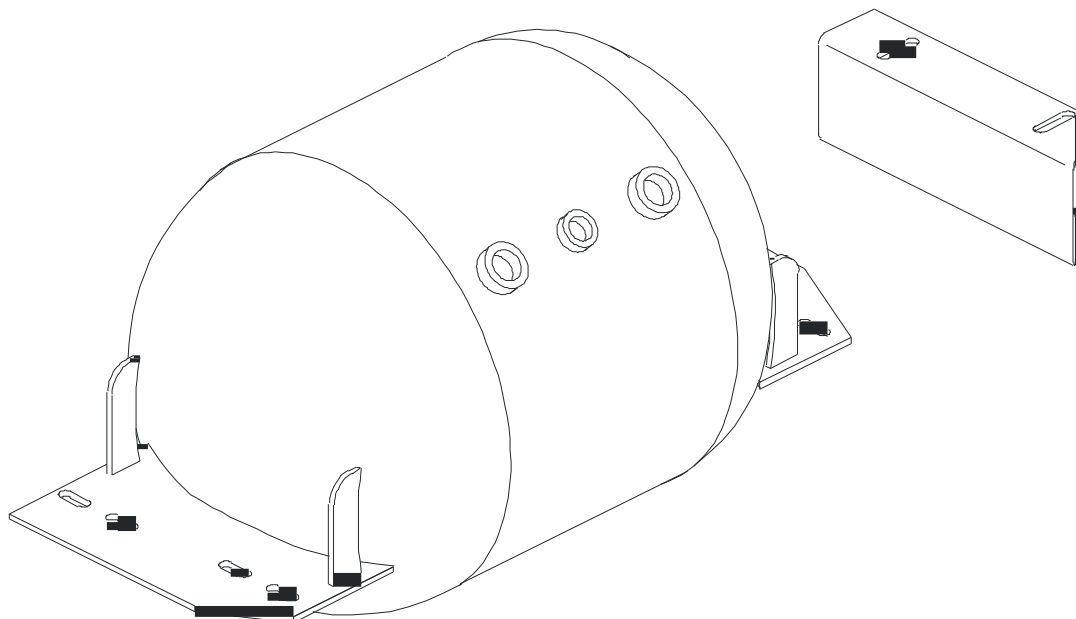
AIR TANK DRAIN ASM

1.	73054230	BALL VALVE 3/4NPT	1
2.	72053556	STREET ELBOW 3/4NPT 90°	2
3.	72063066	WASHER 1 FLAT	3
4.	72053375	REDUCER BUSHING 3/4 - 1/2	1
5.	72053676	ADAPTER 3/4MPT #12MJIC	1
6.	70396133	MUFFLER - AIR 3/4 NPT	1



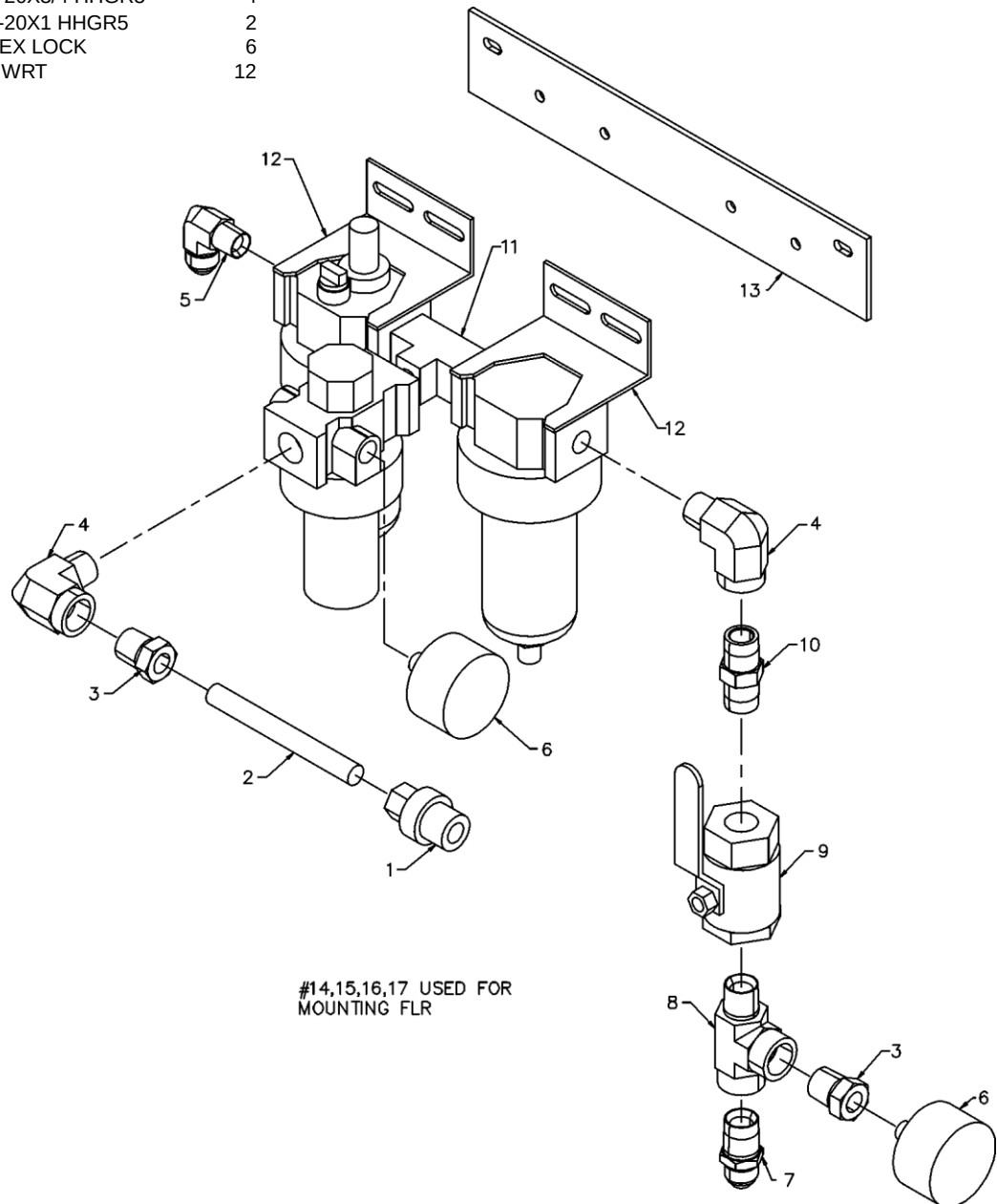
AIR TANK KIT (51713450)

1.	70733568	TANK-AIR 22.5 GALLON W/BRACKETS	1
2.	70391601	DECAL-AIR TANK DRAIN	1
3.	71393886	DECAL-DANGER EXPLODING TANK	1
4.	72053497	ADAPTER .5MPT #8MJIC	1
5.	72053556	ELBOW STREET STL .75x90°	2
6.	72053558	ADAPTER 3/4MPT 3/4MPT HEX	1
7.	72053676	ADAPTER .75MPT #12MJIC	2
8.	72060833	SCREW .31-18x.75 HWH-1	2
9.	72062080	NUT .50-13 HEX NYLOC ZINC	4
10.	72063066	WASHER 1.00 HI-STR ZINC	4
11.	72066580	CLAMP UMP20 S464-G12	2
12.	72531427	ELBOW .75MPT #12MJIC 90°	2
13.	72532696	ELBOW #12MJIC #12FJIC	1
14.	72532975	HOSE FTG TYPE F 8 .50 PARK	2
15.	72532976	HOSE FTG TYPE F 12 .50 PARK	4
16.	73054032	SAFETY VALVE .25 200 PSI	1
17.	73054230	BALL VALVE .75	1
18.	89393634	HYD HOSE .75" 100R4 881-12 PARK	14 FT.
19.	89394043	HYD HOSE .5" 100R2 301-8 PARK	8 FT.
20.	72063005	WASHER .5" FLAT	8
21.	70144807	SPRING-DIE 1.19x.63x1.5	4
22.	72060920	CAP SCREW .50-13	4
23.	60120664	MOUNTING BRACKET - AIR TANK	2
24.	70733568	AIR TANK 22.5 GALLONS	1
25.	72531833	REDUCER BUSHING .75 - .50	1



FLR ASM 1/2" HOSE REEL (51713783)

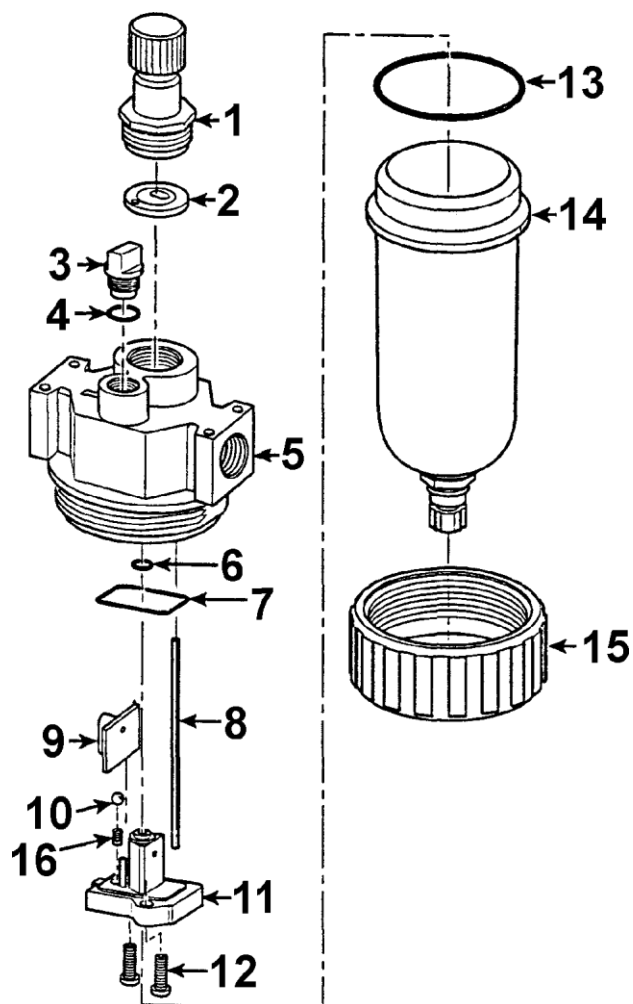
1.	72532021	QUICK DISCONNECT 1/4FPT	1
2.	72053018	NIPPLE-PIPE BLK 1/4NPT X 4	1
3.	72531812	REDUCER BUSHING 1/2-1/4NPT	2
4.	72531133	STREET ELBOW 1/2-1/4NPT	2
5.	72531421	ELBOW 1/2MPT #8MJIC 90°	1
6.	70048120	AIR PRESSURE GAUGE 200#	2
7.	72053497	ADAPTER 1/2MPT #8MJIC	1
8.	72531991	STREET TEE 1/2NPT	1
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)

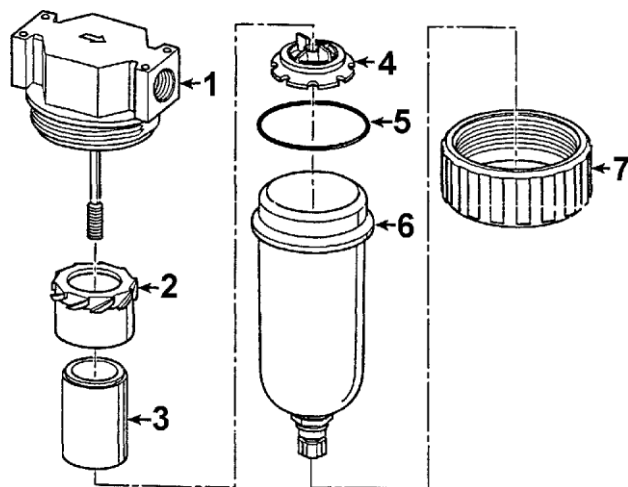
70034438 DRIP CTRL & FILL PLUG KIT-PS739P (INCL: 1-4)

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)**

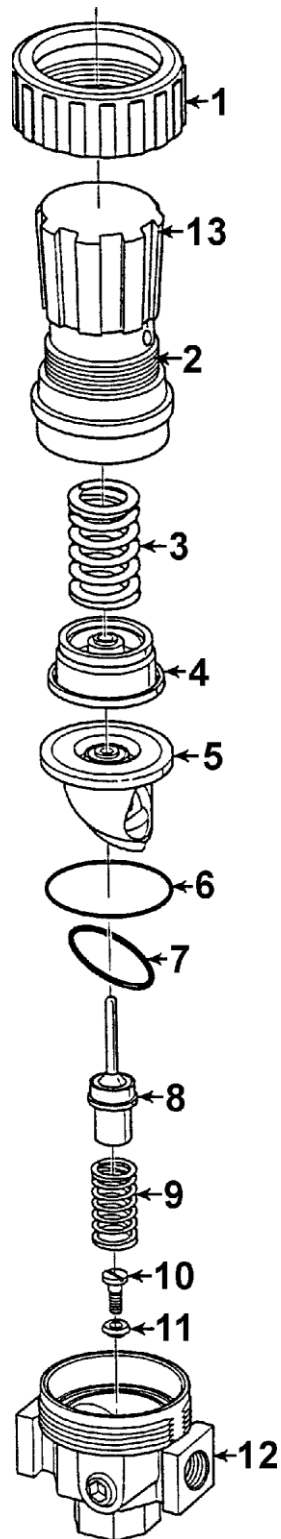
73052086 ELEMENT KIT-PS801P (INCL: 3&5)

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



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NOTES

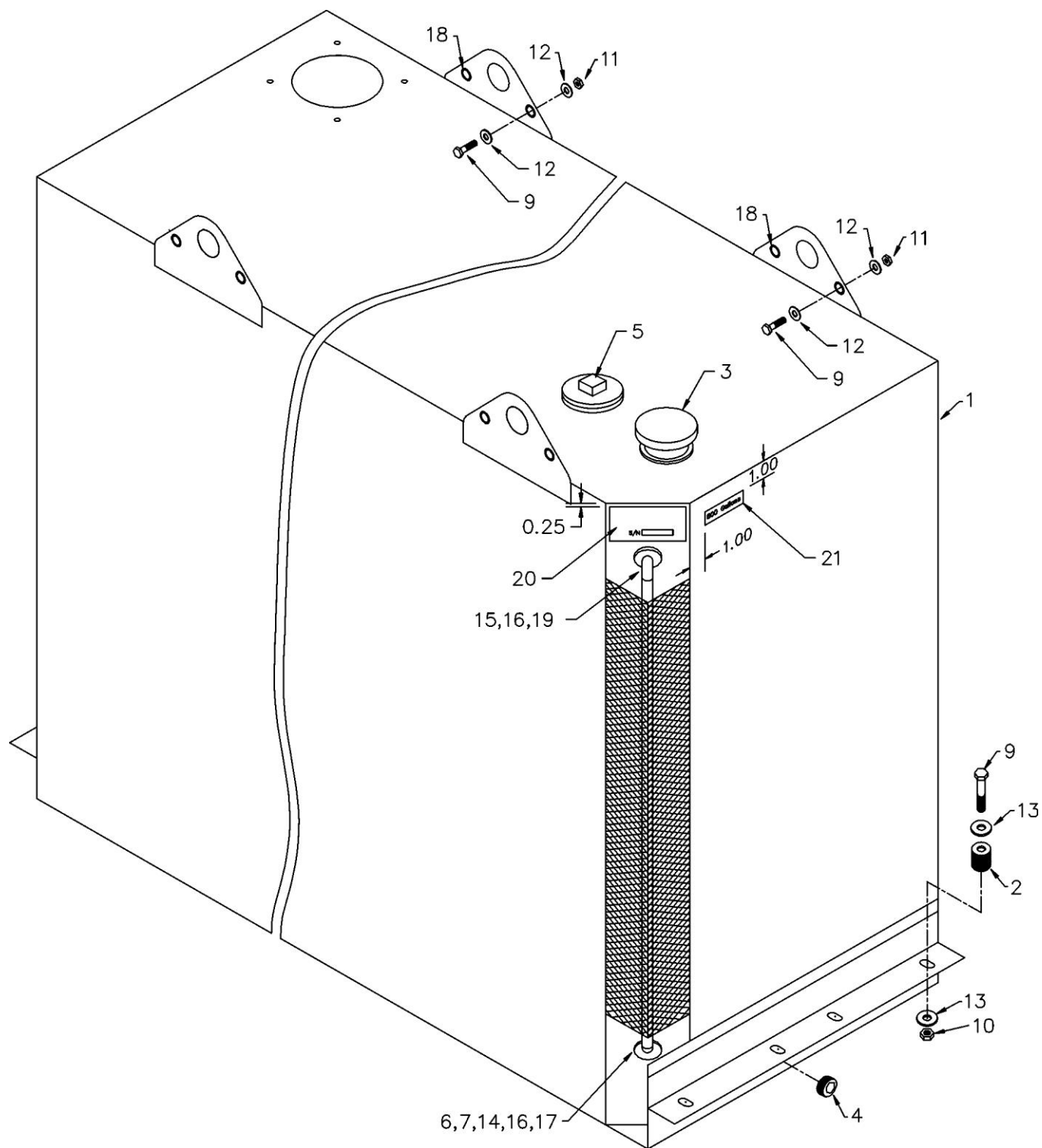
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TANK ASM-STEEL (PARTS)

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ANK ASM-STEEL (PARTS)			<u>H</u>	<u>L</u>	<u>W</u>
A.	51708615	50 GALLON STEEL	50x	9Lx	32
B.	51716068	60 GALLON STEEL	60x	9Lx	32
C.	51711743	85 GALLON STEEL	50x	13x	32
D.	51715756	100 GALLON STEEL	60x	13x	32
E.	51708616	115 GALLON STEEL	50x	18x	32
F.	51708617	175 GALLON STEEL	50x	27x	32
G.	51716112	175 GALLON STEEL	60x	22x	32
H.	51708618	235 GALLON STEEL	50x	36x	32
I.	51715752	275 GALLON STEEL	60x	36x	32
J.	51708619	295 GALLON STEEL	50x	45x	32
K.	51715750	350 GALLON STEEL	60x	45x	32
L.	51708620	415 GALLON STEEL	50x	63x	32
M.	51709957	480 GALLON STEEL	50x	27x	87
N.	51715560	650 GALLON STEEL	50x	36x	87
O.	51709958	800 GALLON STEEL	50x	45x	87

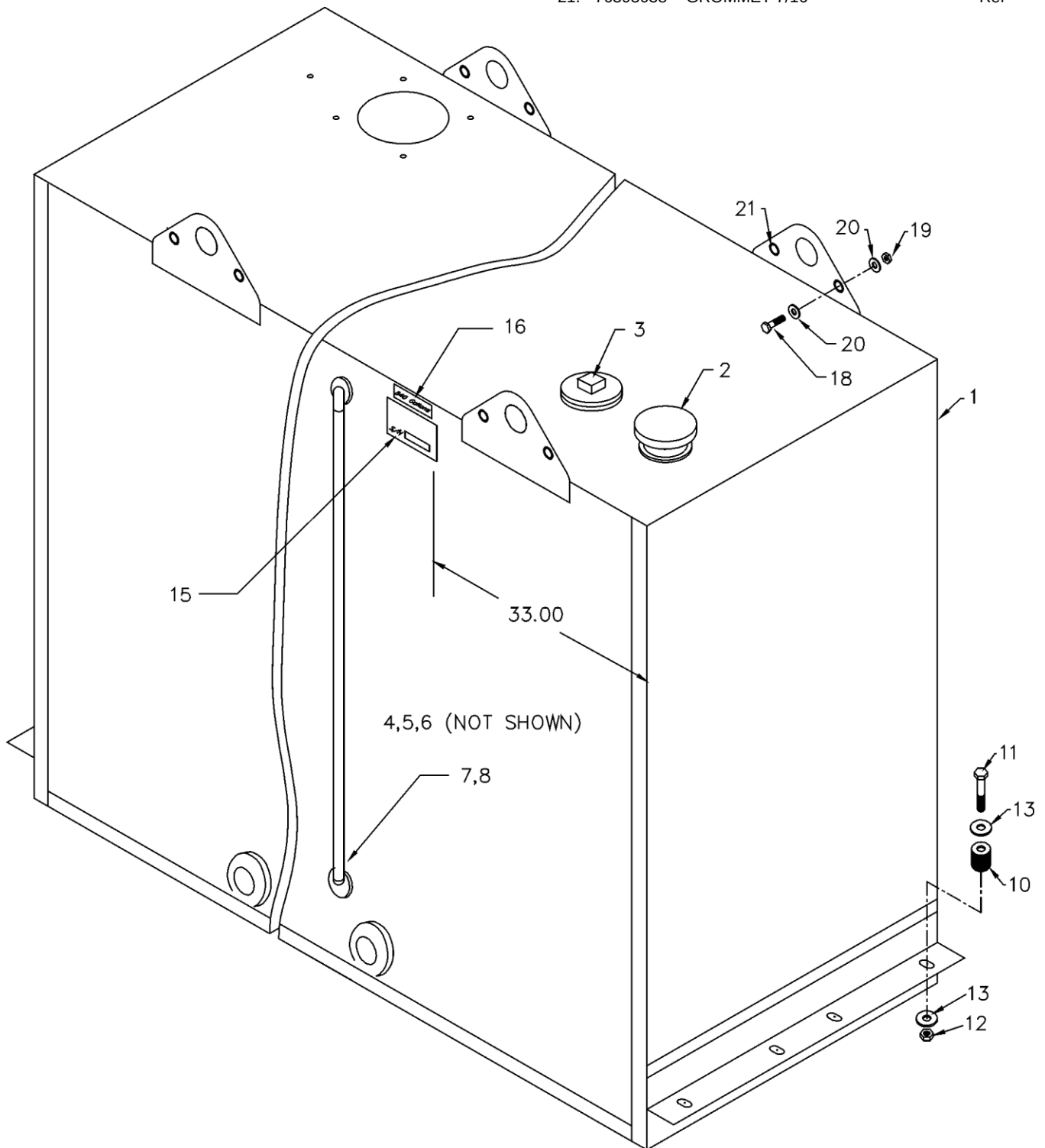
		<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>I</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>	<u>N</u>	<u>O</u>
1.	52707060	TANK-WELDMENT 50 GAL.	1													
	52716069	TANK-WELDMENT 60 GAL.		1												
	52711744	TANK-WELDMENT 85 GAL.			1											
	52715757	TANK-WELDMENT 100 GAL.				1										
	52707062	TANK-WELDMENT 115 GAL.					1									
	52707063	TANK-WELDMENT 175 GAL.						1								
	52716111	TANK-WELDMENT 175 GAL.							1							
	52707064	TANK-WELDMENT 235 GAL.								1						
	52715753	TANK-WELDMENT 275 GAL.									1					
	52707081	TANK-WELDMENT 295 GAL.										1				
	52715751	TANK-WELDMENT 350 GAL.											1			
	52707090	TANK-WELDMENT 415 GAL.												1		
	52707074	TANK-WELDMENT 480 GAL.													1	
	52715561	TANK-WELDMENT 650 GAL.														1
	52707075	TANK-WELDMENT 800 GAL.														1
2.	70144807	SPRING	4	4	4	4	4	4	4	4	8	8	8	8	8	8
3.	70732184	VENTED CAP 2"	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.	72053406	PIPE PLUG SH 1NPT	1	1	2	2	1	1	1	1	1	1	1	1	1	1
5.	72053419	PIPE PLUG SQHD 2NPT												1		1
6.	72053537	ADAPTER 3/8MPT 1/4FPT SWVL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.	72053590	STREET ELBOW 3/8 90°	2	2	2	2	2	2	2	2	2	2	2	2	2	2
8.	72060048	CAP SCR 3/8-16X1-1/2 HHGR5	2	2	2	2	2	2	2	2	2	2	2	4	4	4
9.	72060097	CAP SCR ½-13X3 HHGR5	4	4	4	4	4	4	4	4	8	8	8	8	8	8
10.	72062080	NUT ½-13 NYLOC	4	4	4	4	4	4	4	4	8	8	8	8	8	8
11.	72062103	NUT 3/8-16 NYLOC	2	2	2	2	2	2	2	2	2	2	2	4	4	4
12.	72063003	WASHER 3/8 WRT	4	4	4	4	4	4	4	4	4	4	4	8	8	8
13.	72063005	WASHER ½ WRT	8	8	8	8	8	8	8	8	16	16	16	16	16	16
14.	72531542	BARB NIPPLE 1/4MPT ½	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.	72531543	BARB NIPPLE 3/8MPT ½	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.	72066452	HOSE CLAMP SAE#4 SS	2	2	2	2	2	2	2	2	2	2	2	2	2	2
17.	73054108	SHUT-OFF VALVE 1/4M/FPT	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.	76393038	GROMMET 7/16	4	4	4	4	4	4	4	4	4	4	4	8	8	8
19.	89034073	PLASTIC TUBE	37"	48"	37"	48"	37"	37"	48"	37"	48"	48"	37"	37"	37"	37"
20.	70395479	SERIAL NUMBER PLACARD	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.	70395480	DECAL-50 GALLONS	1													
	70395787	DECAL-60 GALLONS		1												
	70395481	DECAL-85 GALLONS			1											
	70395493	DECAL-100 GALLONS				1										
	70395482	DECAL-115 GALLONS					1									
	70395483	DECAL-175 GALLONS						1	1							
	70395484	DECAL-235 GALLONS								1						
	70395495	DECAL-275 GALLONS									1					
	70395485	DECAL-295 GALLONS										1				
	70395496	DECAL-350 GALLONS											1			
	70395486	DECAL-415 GALLONS												1		
	70395487	DECAL-480 GALLONS													1	
	70395488	DECAL-650 GALLONS														1
	70395489	DECAL-800 GALLONS														1

TANK ASM-STEEL (DWG)

**TANK ASM-STEEL-540 GALLON 60HX27LX81W
(51716464)**

1.	51716463	TANK-WELDMENT 540 GAL.	1
2.	70732184	VENTED CAP 2"	1
3.	72053419	PLUG PIPE SQHD 2NPT	2
4.	60122942	SIGHT GAUGE	1
5.	72062104	NUT ¼-20 NYLOC	4
6.	72063000	WASHER 3/16	4

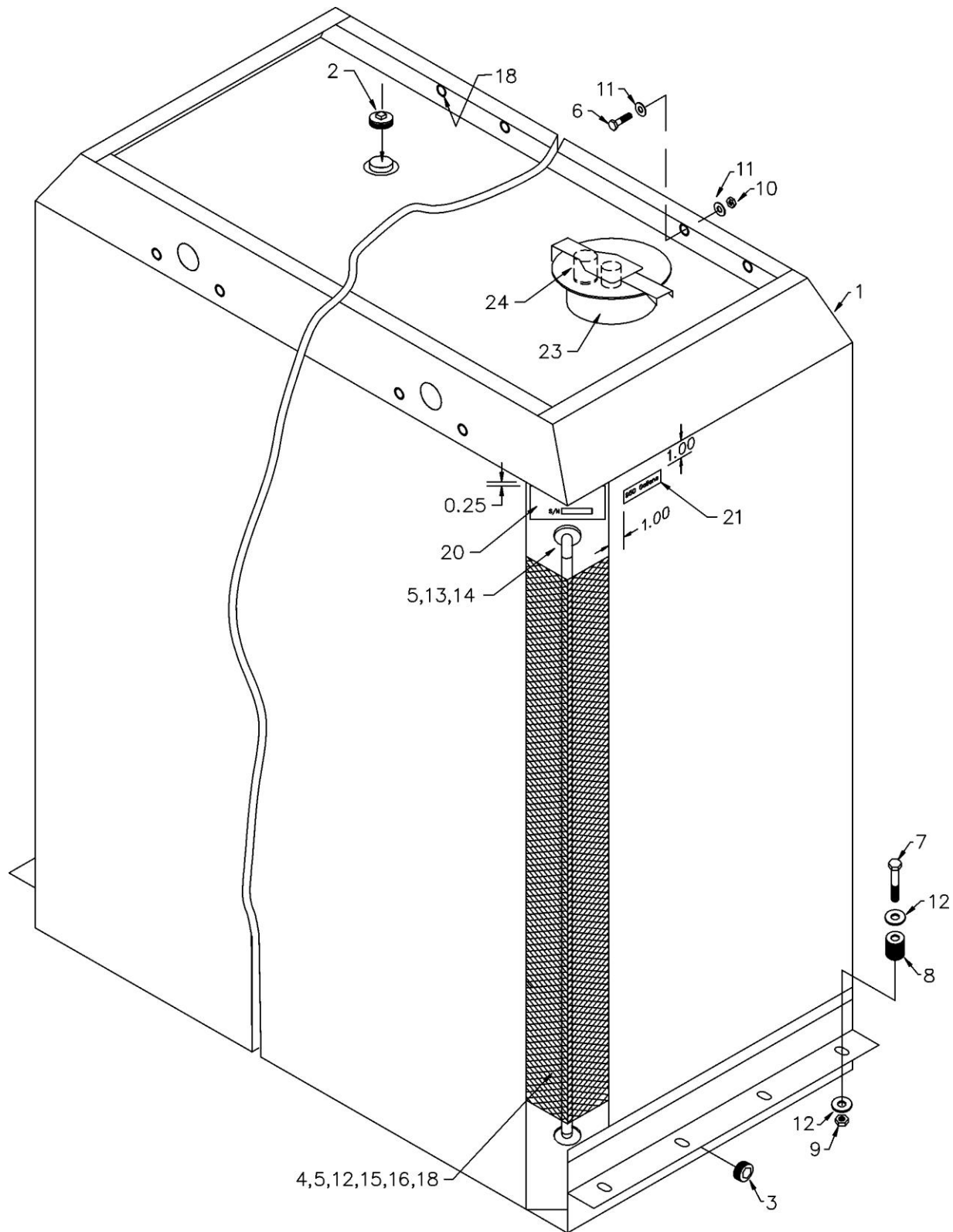
7.	72533614	ELBOW-PRESTOLOK	2
8.	83145876	PLASTIC TUBE	4ft
10.	70144807	SPRING	4
11.	72060097	CAP SCR ½-13X3 HHGR5	4
12.	72062080	NUT ½-13 NYLOC	4
13.	72063005	WASHER ½ WRT	8
15.	70395479	SERIAL NUMBER PLACARD	1
16.	70395983	DECAL-540 GALLONS	1
18.	72060048	CAP SCR 3/8-16X1-1/2 HHGR5	Ref
19.	72053103	NUT 3/8-16 NYLOC	Ref
20.	72063003	WASHER 3/8 WRT	Ref
21.	76393038	GROMMET 7/16	Ref



TANK ASM-DIESEL FUEL SYSTEM (PARTS)

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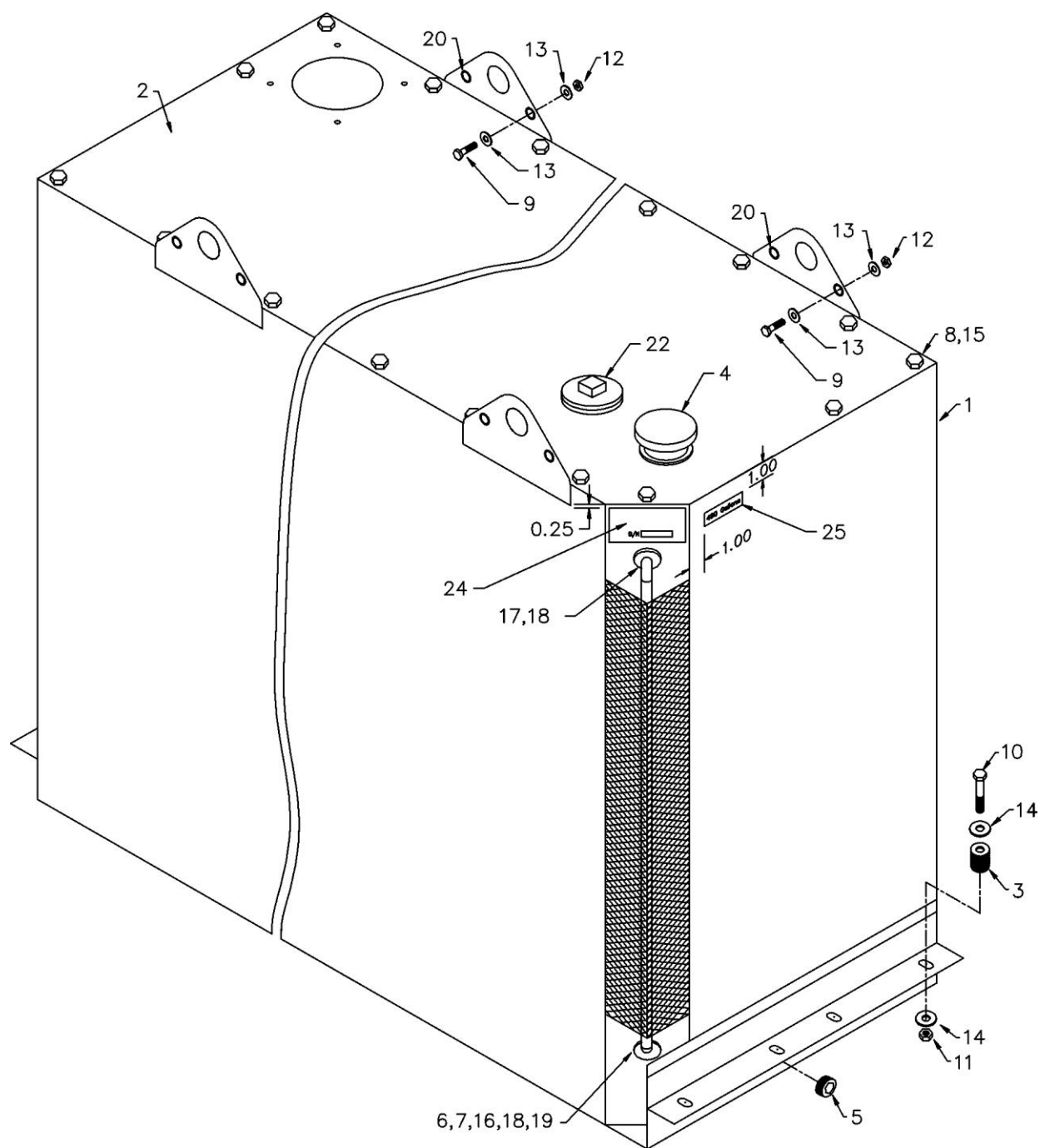
TANK ASM-DIESEL FUEL SYSTEM (PARTS)			H	L	W					
A.	51709992	115 GALLON W/ROLLOVER	50x18x32							
B.	51709991	175 GALLON W/ROLLOVER	50x27x32							
C.	51709990	235 GALLON W/ROLLOVER	50x36x32							
D.	51709989	295 GALLON W/ROLLOVER	50x45x32							
E.	51709988	415 GALLON W/ROLLOVER	50x63x32							
F.	51708621	480 GALLON W/ROLLOVER	50x27x87							
G.	51709987	650 GALLON W/ROLLOVER	50x36x87							
H.	51708622	800 GALLON W/ROLLOVER	50x45x87							
I.	51716110	950 GALLON W/ROLLOVER	60x45x87							

TANK ASM-DIESEL FUEL SYSTEM (DWG)

TANK ASM-GALVANIZED (PARTS)

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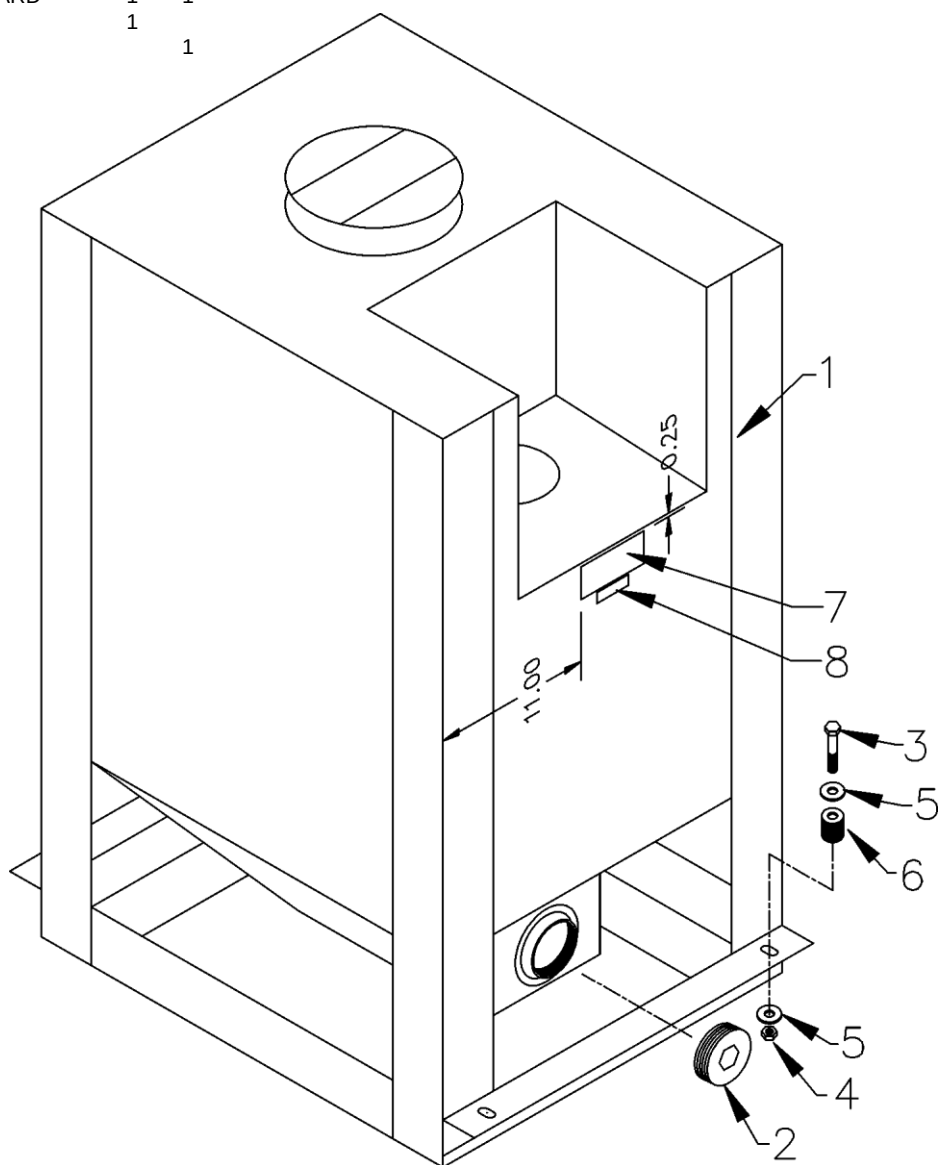
TANK ASM-GALVANIZED (PARTS)			H	L	W							
A.	51707918	50 GALLON GALVANIZED	50x 9x32									
B.	51716066	60 GALLON GALVANIZED	60x 9x32									
C.	51711745	85 GALLON GALVANIZED	50x13x32									
D.	51715758	100 GALLON GALVANIZED	60x13x32									
E.	51707221	115 GALLON GALVANIZED	50x18x32									
F.	51715754	135 GALLON GALVANIZED	60x18x32									
G.	51707655	175 GALLON GALVANIZED	50x27x32									
H.	51707272	235 GALLON GALVANIZED	50x36x32									
I.	51708917	295 GALLON GALVANIZED	50x45x32									
J.	51707642	480 GALLON GALVANIZED	50x27x87									
			<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>I</u>	<u>J</u>
1.	52707917	TANK-WELDMENT 50 GAL.	1									
	52716067	TANK-WELDMENT 60 GAL.		1								
	52711746	TANK-WELDMENT 85 GAL.			1							
	52715759	TANK-WELDMENT 100 GAL.				1						
	52707220	TANK-WELDMENT 115 GAL.					1					
	52715755	TANK-WELDMENT 135 GAL.						1				
	52707654	TANK-WELDMENT 175 GAL.							1			
	52707095	TANK-WELDMENT 235 GAL.								1		
	52708916	TANK-WELDMENT 295 GAL.									1	
	52707576	TANK-WELDMENT 480 GAL.										1
2.	52707919	TOP PLATE-50/60 GAL.	1	1								
	52711777	TOP PLATE-85/100 GAL.			1	1						
	52707222	TOP PLATE-115/135 GAL.					1	1				
	52707653	TOP PLATE-175 GAL.							1			
	52707271	TOP PLATE-235 GAL.								1		
	52708915	TOP PLATE-295 GAL.									1	
	52707575	TOP PLATE-480 GAL.										1
3.	70144807	SPRING	4	4	4	4	4	4	8	8	8	8
4.	70732184	VENTED CAP 2"	1	1	1	1	1	1	1	1	1	1
5.	72053406	PIPE PLUG SH 1NPT	1	1	2	2	1	1	1	1	1	1
6.	72053537	ADAPTER 3/8MPTX1/4FPT SWVL	1	1	1	1	1	1	1	1	1	1
7.	72053590	STREET ELBOW 3/8 90°	2	2	2	2	2	2	2	2	2	2
8.	72060025	CAP SCR 5/16-18X1 HHGR5	9	9	9	9	10	10	12	12	14	18
9.	72060048	CAP SCR 3/8-16X1-1/2 HHGR5	2	2	2	2	2	2	2	2	2	4
10.	72060097	CAP SCR ½-13X3 HHGR5	4	4	4	4	4	4	8	8	8	8
11.	72062080	NUT ½-13 NYLOC	4	4	4	4	4	4	8	8	8	8
12.	72062103	NUT 3/8-16 NYLOC	2	2	2	2	2	2	2	2	2	4
13.	72063003	WASHER 3/8 WRT	4	4	4	4	4	4	4	4	4	8
14.	72063005	WASHER ½ WRT	8	8	8	8	8	8	16	16	16	16
15.	72063050	WASHER 5/16 LOCK	9	9	9	9	10	10	12	12	14	18
16.	72531542	BARB NIPPLE 1/4MPT ½	1	1	1	1	1	1	1	1	1	1
17.	72531543	BARB NIPPLE 3/8MPT ½	1	1	1	1	1	1	1	1	1	1
18.	72066452	HOSE CLAMP SAE#4 SS	2	2	2	2	2	2	2	2	2	2
19.	73054108	SHUT-OFF VALVE 1/4M/FPT	1	1	1	1	1	1	1	1	1	1
20.	76393038	GROMET 7/16	4	4	4	4	4	4	4	4	4	8
21.	89034073	PLASTIC TUBE	37"	48"	37"	48"	37"	48"	37"	37"	37"	37"
22.	72053419	PIPE PLUG 2NPT										1
23.	89391284	WEATHERSTRIP .19X.75	90"	90"	102"	102"	111"	111"	129"	129"	165"	225"
24.	70395479	SERIAL NUMBER PLACARD	1	1	1	1	1	1	1	1	1	1
25.	70395487	DECAL-50 GALLONS	1									
	70395787	DECAL-60 GALLONS		1								
	70395481	DECAL-85 GALLONS			1							
	70395493	DECAL-100 GALLONS				1						
	70395482	DECAL-115 GALLONS					1					
	70395494	DECAL-135 GALLONS						1				
	70395483	DECAL-175 GALLONS							1			
	70395484	DECAL-235 GALLONS								1		
	70395485	DECAL-295 GALLONS									1	
	70395487	DECAL-480 GALLONS										1

TANK ASM-GALVANIZED (DWG)

TANK ASM-GREASE HOPPER

- A. 51711857 GREASE HOPPER 125 GALLON
 B. 51711858 GREASE HOPPER 220 GALLON

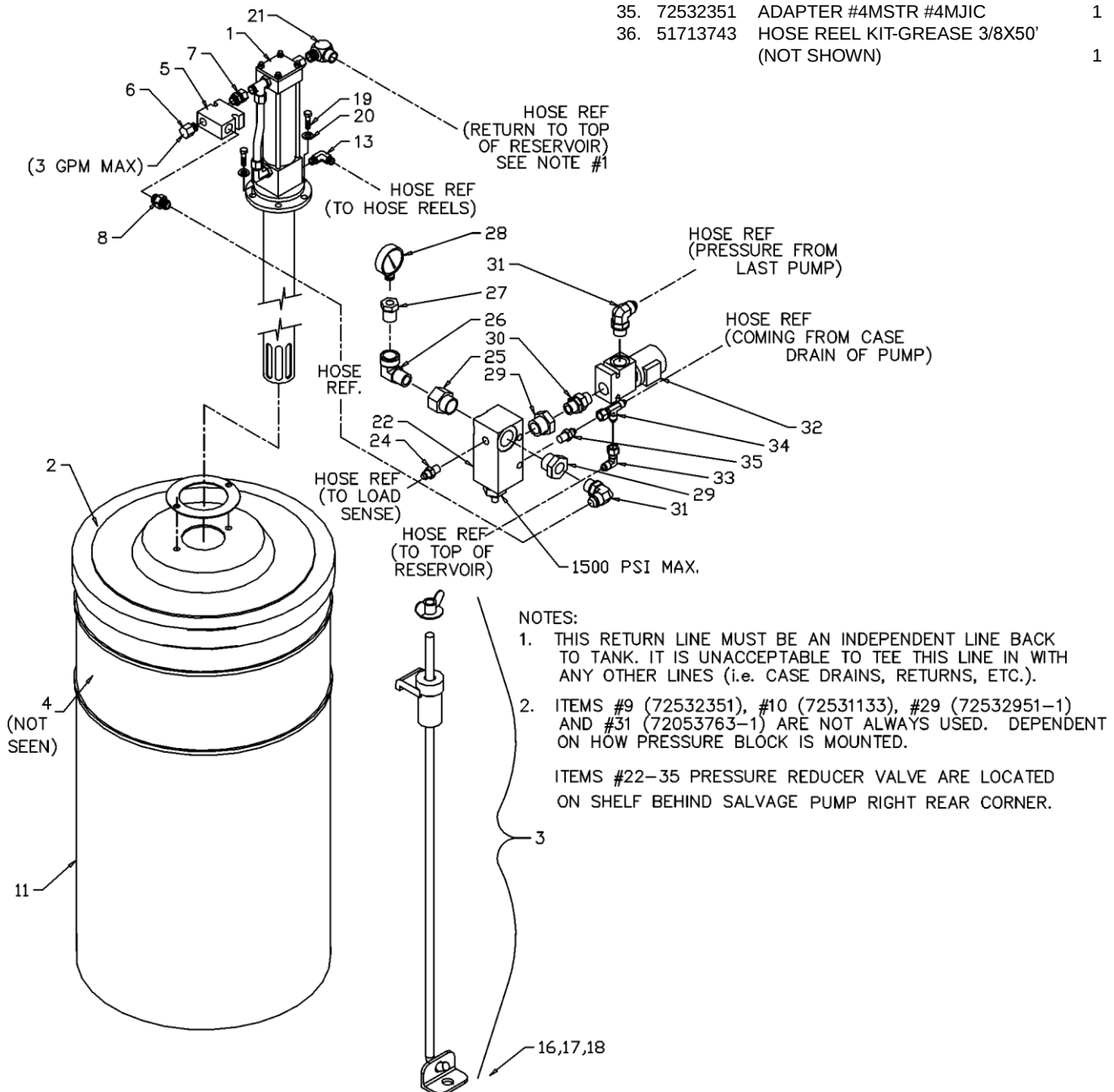
		<u>A</u>	<u>B</u>
1.	52711846 TANK-WELDMENT 125 GALLON	1	
	52711847 TANK-WELDMENT 220 GALLON		1
2.	72533026 PIPE PLUG SQHD 3NPT	1	1
3.	72060097 CAP SCR ½-13X3 HHGR5	4	4
4.	72062080 NUT ½-13 NYLOC	4	4
5.	72063005 WASHER ½ WRT	8	8
6.	70144807 SPRING	4	4
7.	70395479 SERIAL NUMBER PLACARD	1	1
8.	70395490 DECAL-125 GALLONS	1	
	70395491 DECAL-220 GALLONS		1



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

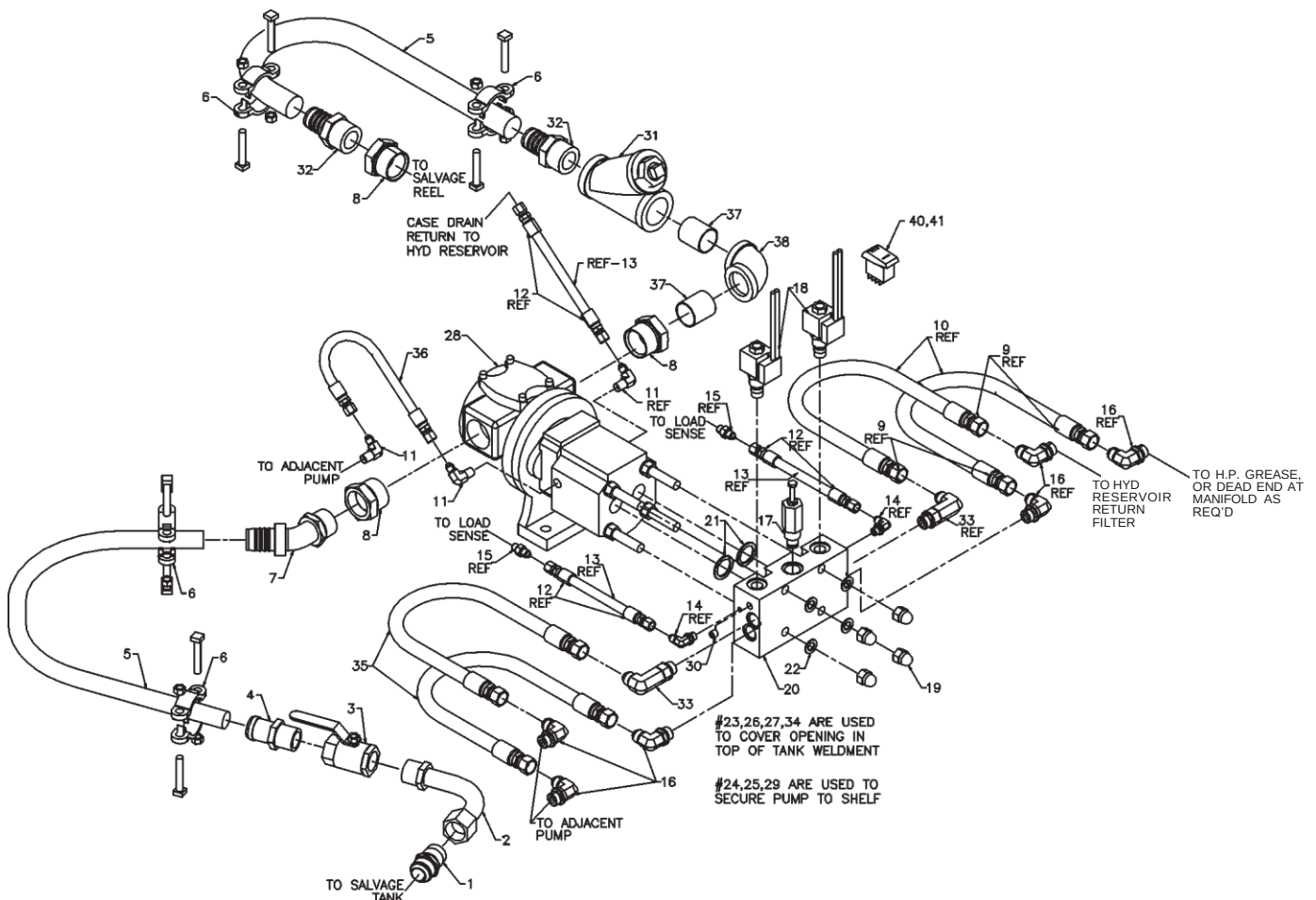
1.	70732160	PUMP-GREASE 120#	1
2.	70143554	COVER	1
3.	70732109	INSTALLATION KIT	1
4.	70143812	FOLLOWER PLATE	1
5.	70143516	VALVE BODY	1
6.	73054578	VALVE-FLOW CTRL	1
7.	72533304	ADAPTER #8MO-RING #8F	1
8.	72532358	ADAPTER #8MSTR #8MJIC	1
9.	72532351	ADAPTER #4MSTR #4MJIC	1
10.	72531133	STREET ELBOW 1/2NPT 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'	1
		(NOT SHOWN)	



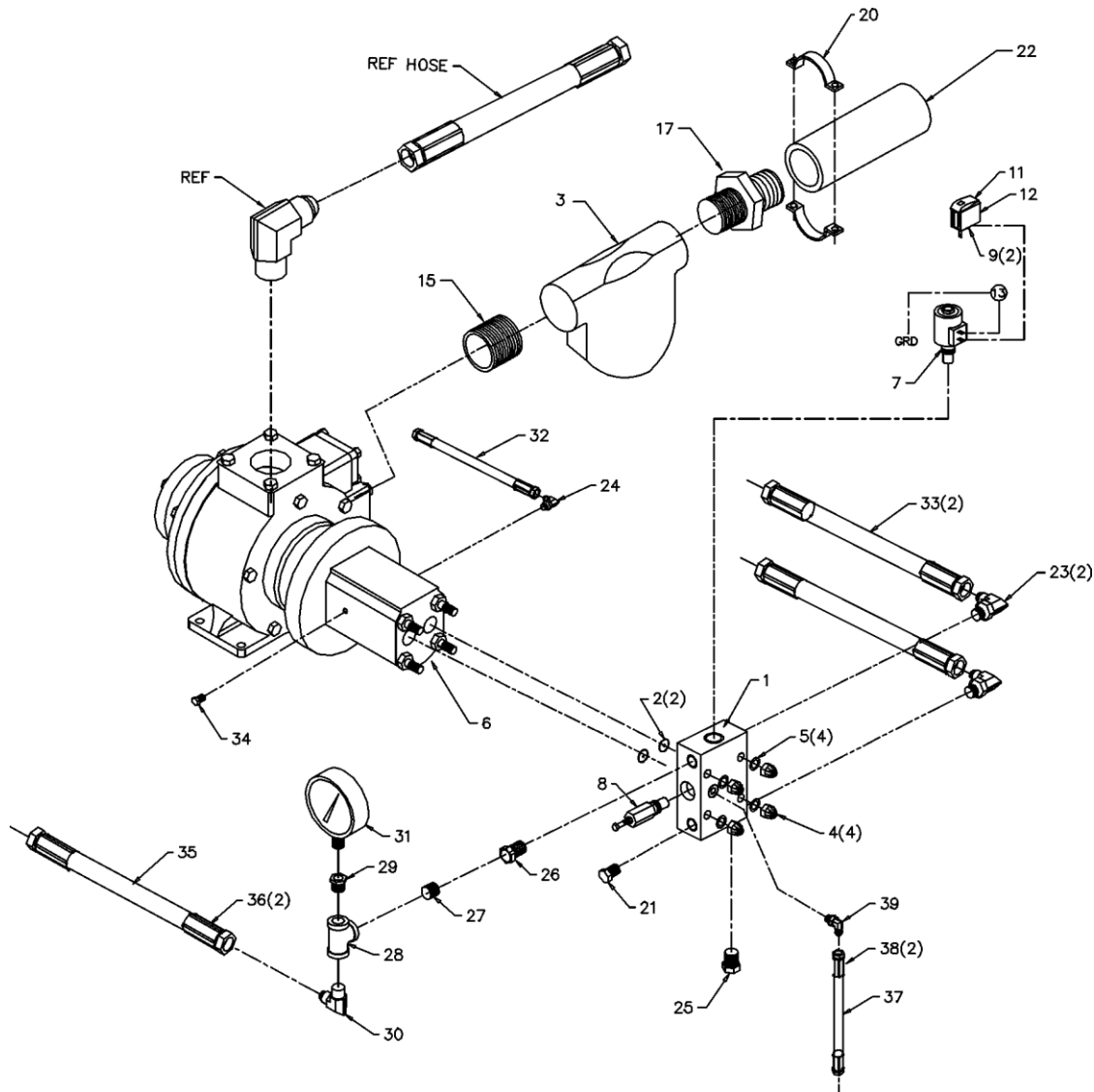
PUMP ASM-HYD LUBE/SALV-RMT MOUNT

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.	72661642	HOSE CLAMP (WAS 72066516)	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 ASM-HYD LUBE/DIESEL 120GPM (51710608)

1.	5V021870	MANIFOLD	1	21.	72532140	PLUG .56 STR HH	1
2.	7Q072217	O-RING	2	22.	89392583	HOSE 2" SUCTION	20FT
3.	70143232	STRAINER	1	23.	72053763	ELBOW #8MSTR #8MJIC 90°	2
4.	72062134	NUT 1/2-13 ACORN HIGH	4	24.	72531412	ELBOW 1/4MPT #4MJIC 90°	1
5.	72063053	WASHER 1/2 LOCK	4	25.	72532141	PLUG 3/4STR HH	1
6.	73051679	PUMP	1	26.	72053741	ADAPTER #8MSTR 1/2FPT	1
7.	73054574	SOLENOID VALVE	1	27.	72053725	ADAPTER 1/2MPT 1/2MPT HEX	1
8.	73054910	CARTRIDGE-FLOW	1	28.	72053612	TEE 1/2NPT	1
9.	77040137	TERMINAL #12 FSLPON	1	29.	72053374	REDUCER BUSHING 1/2 - 1/4NPT	1
10.	60122442	SUPPORT BRACKET (NOT SHOWN)	2	30.	72531421	ELBOW 1/2MPT #8MJIC 90°	1
11.	77041499	ROCKER SWITCH-RED ACTUATOR	1	31.	73054435	PR GAUGE 5000 PSI	1
12.	77041500	ROCKER SWITCH-BODY	1	32.	51703591	HOSE ASM FF 1/4X20	1
13.	89044235	WIRE 14GA WHT	1FT	33.	51704311	HOSE ASM FF 1/2X24	2
14.	52709490	MTG PLATE (NOT SHOWN)	1	34.	72053245	PIPE PLUG 1/4NPT SQHD	1
15.	72053260	PIPE NIPPLE 2NPT X CLOSE	3	35.	89394043	HOSE-HYD 1/2 100R2	7FT
16.	72053329	ELBOW 2NPT 90°	3	36.	72532975	HOSE FTG #8 1/2	2
17.	72532983	BARB NIPPLE 2 X 2NPT	5	37.	89394041	HOSE-HYD 1/4 100R2	2FT
18.	72053263	PIPE NIPPLE 2NPT X 6	1	38.	72533258	HOSE FTG #4 1/4	2
19.	72053262	PIPE NIPPLE 2NPT X 4	1	39.	72053758	ELBOW #4MSTR #4MJIC 90°	1
20.	72066518	HOSE CLAMP 2" 2BOLT	5	40.	60119956	RISER 3-3/8"H (NOT SHOWN)	2
				41.	60120720	MTG PLATE (NOT SHOWN)	1

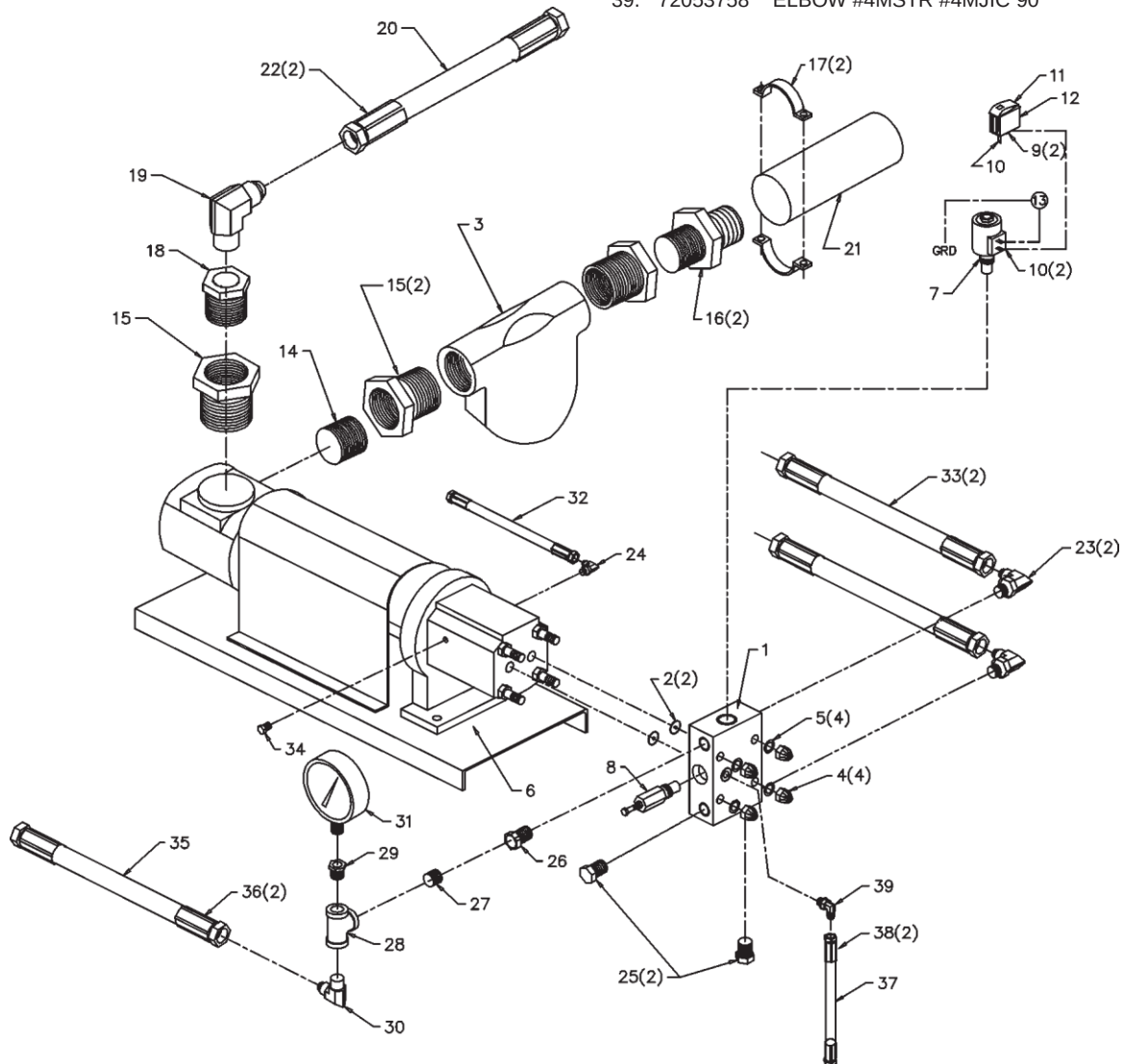


PUMP ASM-HYD LUBE/DIESEL HV (51708625)

1.	5V021870	MANIFOLD	1
2.	7Q072217	O-RING	2
3.	70143232	STRAINER	1
4.	72062134	NUT 1/2-13 ACORN HIGH	4
5.	72063053	WASHER 1/2 LOCK	4
6.	73051666	PUMP-FUEL	1
7.	73054574	SOLENOID VALVE	1
8.	73054910	CARTRIDGE-FLOW	1
9.	77040137	TERMINAL #12 FSLPON 1/4TAB	2
10.	77040186	TERMINAL FSLPON 1/4TAB 16-14GA	3
11.	77041499	ROCKER SWITCH-RED ACTUATOR	1
12.	77041500	ROCKER SWITCH-BODY	1
13.	89044235	WIRE 14GA WHT	1FT
14.	72053251	PIPE NIPPLE 1-1/2NPT X CLOSE	1
15.	72534398	REDUCER BUSHING - 2 - 1.5 STL (WAS 72053379)	3
16.	72531552	BARB NIPPLE 1-1/2MPT 1-1/2	2
17.	72066517	HOSE CLAMP 1-1/2 2BOLT	2
18.	72531825	REDUCER BUSHING 1-1/2 1NPT	1
19.	72531430	ELBOW 1MPT #16MJIC 90°	1

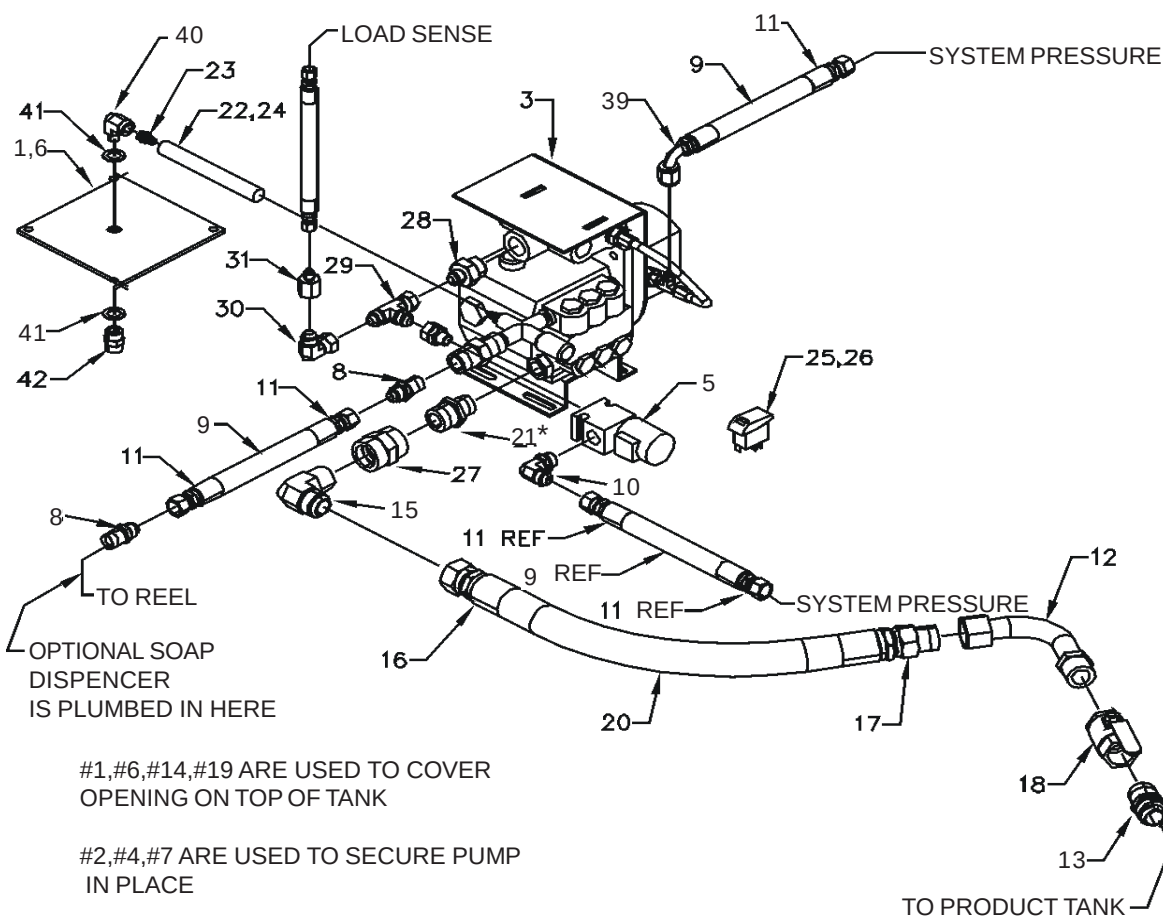
SEE FOLLOWING PAGE FOR PUMP MOUNTING

20.	89393811	HOSE HYD 1" 100R4	4FT
21.	89394074	HOSE-HYD 1-1/2 100R4	20FT
22.	72533386	HOSE FTG #16 1"	2
23.	72053763	ELBOW #8MSTR #8MJIC 90°	2
24.	72531412	ELBOW 1/4MPT #4MJIC 90°	1
25.	72532141	PLUG 3/4STR HH	1
26.	72053741	ADAPTER #8MSTR 1/2FPT	1
27.	72053725	ADAPTER 1/2MPT 1/MPT HEX	1
28.	72053612	TEE 1/2NPT	1
29.	72053374	REDUCER BUSHING 1/2 - 1/4NPT	1
30.	72531421	ELBOW 1/2MPT #8MJIC 90°	1
31.	73054435	PR GAUGE 5000PSI	1
32.	51703591	HOSE ASM FF 1/4X20	1
33.	51704311	HOSE ASM FF 1/2X24	2
34.	72053245	PIPE PLUG 1/4NPT SQHD	1
35.	89394043	HOSE-HYD 1/2 100R2	7FT
36.	72532975	HOSE FTG #8 1/2	2
37.	89394041	HOSE-HYD 1/4 100R2	2FT
38.	72533258	HOSE FTG #4 1/4	2
39.	72053758	ELBOW #4MSTR #4MJIC 90°	1



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

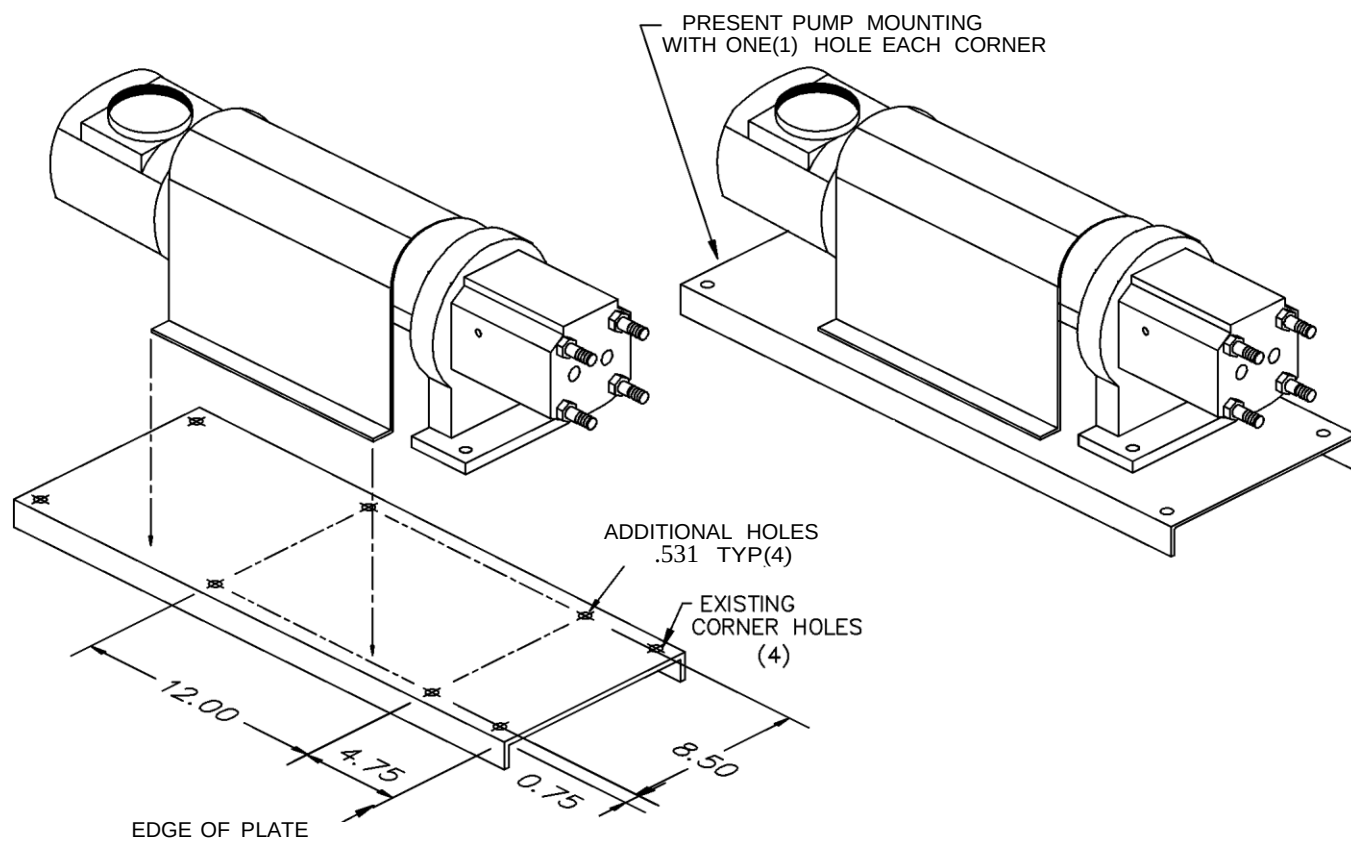
PUMP ASM - HYD LUBE HP-W RMT MT (51711760)				PUMP ASM - HYD LUBE HP-W RMT MT (51711760)			
1.	72053680	ADPTR-MPT/M JIC 1.00 - #16	1	22.	77041014	SWITCH-PUSH PULL W/20 AMP FUSE	1
2.	70145281	TUBE ASM-HYD 1.00 X 5.68 1BEND	1	23.	77042001	LIGHT-RED INDICATOR	1
3.	73054378	VALVE-BALL 1.00	1	24.	70143516	BODY-VALVE (PART OF #36)	1REF
4.	72533483	HOSE FTG, TYPE C 1.0 1.0	1	25.	72060025	CAP SCR .31-18 X 1.00 HH GR5 Z	4
5.	89393811	HOSE-HYD 1.0 100R4	15'	26.	72060046	CAP SCR .38-16 X 1.00 HH GR5 Z	4
6.	72533386	HOSE FTG-TYPE F #16 100 PARK	1	27.	72062103	NUT .38-16 HEX NYLOC ZINC	4
7.	72531430	ELBOW-MPT/90/M JIC 1.00 #16	1	28.	60112239	PLATE-COVER PUMP HOLE	1
8.	72053306	COUPLING-BLK 1.00	1	29.	76392598	WASHER-BONDED PLTD .31	5
9.	72533369	ADPTR-MNH/MPT BRS .75 -	1	30.	89044235	WIRE-14 GA WHITE STRD TYPE GPT	2'
10.	89394043	HOSE-HYD .50	7 FT.	31.	76392369	GASKET-PUMP HOLE TANK COVER	1
11.	72531101	ELBOW-STL .50 X 90°	1	32.	77040052	TERM-RING I .38 STUD 12-10 GA	1
12.	72053497	ADPTR-MPT/M JIC .50 - #8	2	33.	77040186	TERM-FSLPON I .25 TAB 16-14 GA	2
13.	72532975	HOSE FTG-TYPE F #8 - .50	3	34.	77040230	TERM-SPADE FLNGD INSUL 10-10 GA	2
14.	72532670	ELBOW-M JIC/45/F JIC #8 #8	1	35.	72063003	WASHER .38 W FLAT ANSI B27.2Z	8
15.	72053375	REDUCER BUSHING-BLK .75-.50	1	36.	73054576	VALVE-SOLENOID	1
16.	72053763	ELBOW-M STR/90/M JIC #8 #8	1	37.	72531539	NIPPLE-BARB BRS .25MPT 0.38	1
17.	72053725	ADPTR-MPT/HEX/MPT .50.50	1	38.	72531131	ELBOW-STREET STL .25X90 DEG	1
18.	72531991	TEE-STREET STL .50	1	39.	72053302	COUPLING-BLK .25	2
19.	72053374	REDUCER BUSHING-BLK .50-.25	1	40.	72053013	NIPPLE-PIPE BLK .25 X CLOSE	1
20.	73051676	POWER WASHER-PACE/HP	1	41.	72066452	CLAMP-HOSE .25-.62	2
21.	72053741	ADPTR-M STR/EPT #8 .50	1	42.	89392426	HOSE-GP .38 GRAY	20 FT.



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

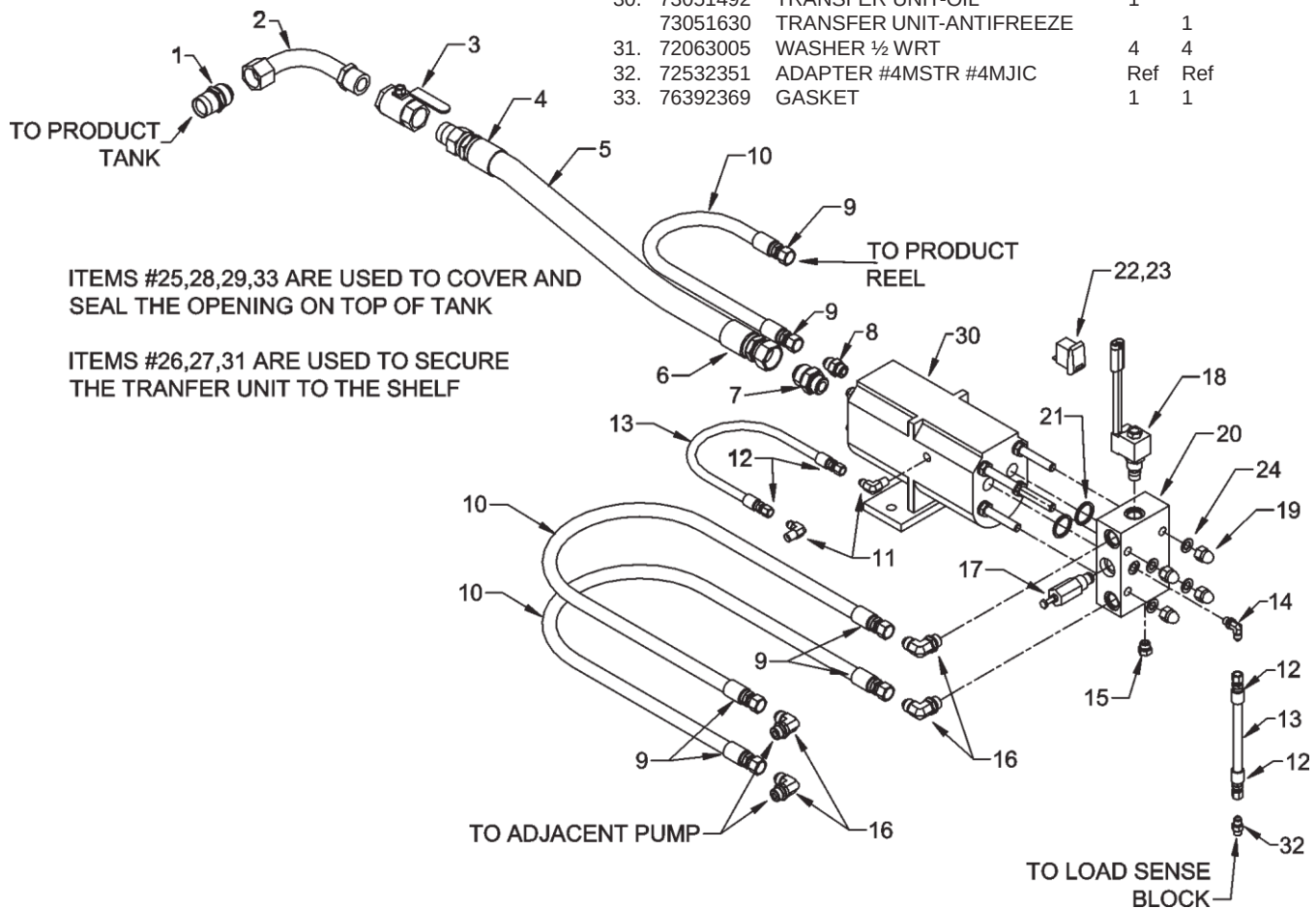
#2,#4,#7 ARE USED TO SECURE PUMP
IN PLACE

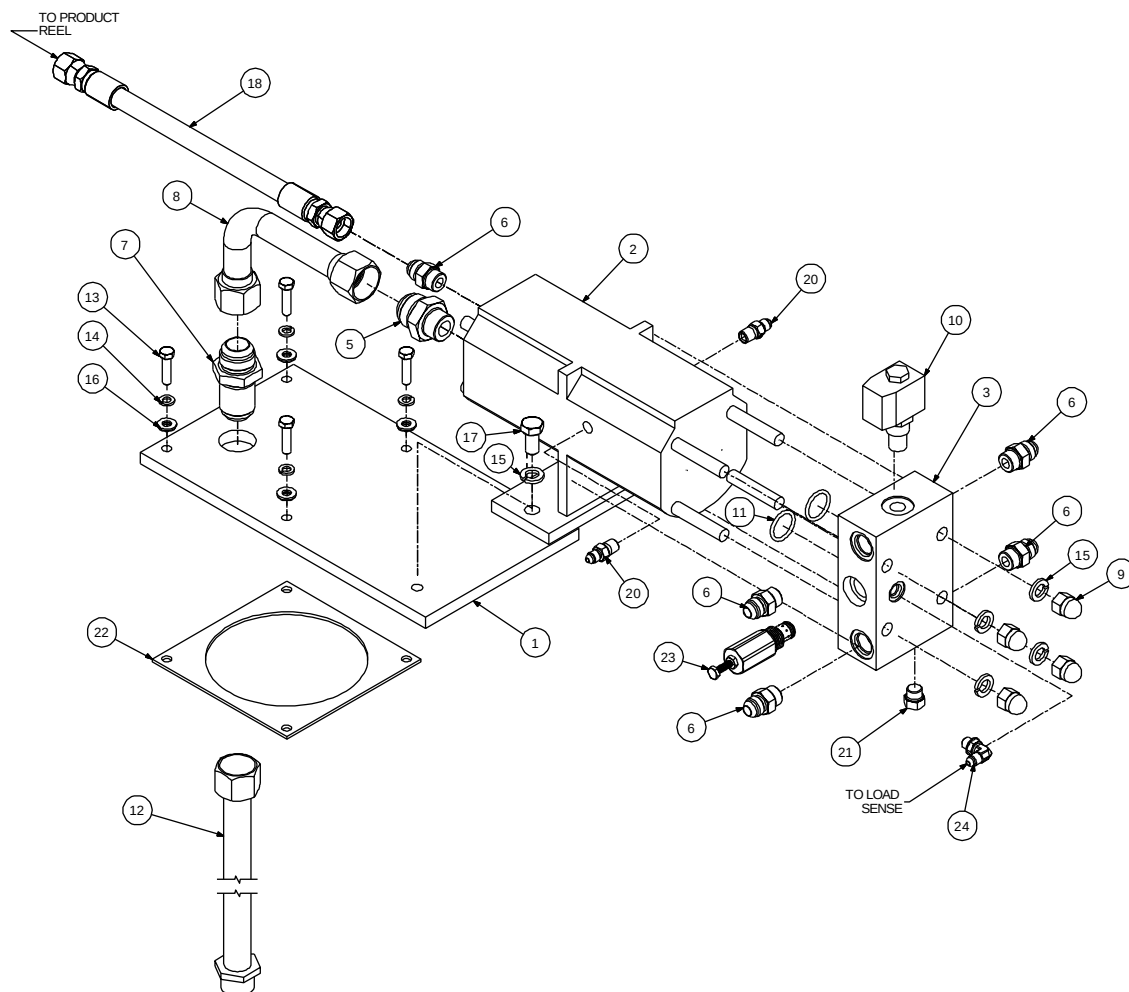
*WHEN PLUMBING #21, USE CAUTION
TIGHTENING. MATING FITTING IS BRASS

PUMP MOUNTING DIMENSIONS

PUMP ASSEMBLIES, SHELF-MOUNT -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





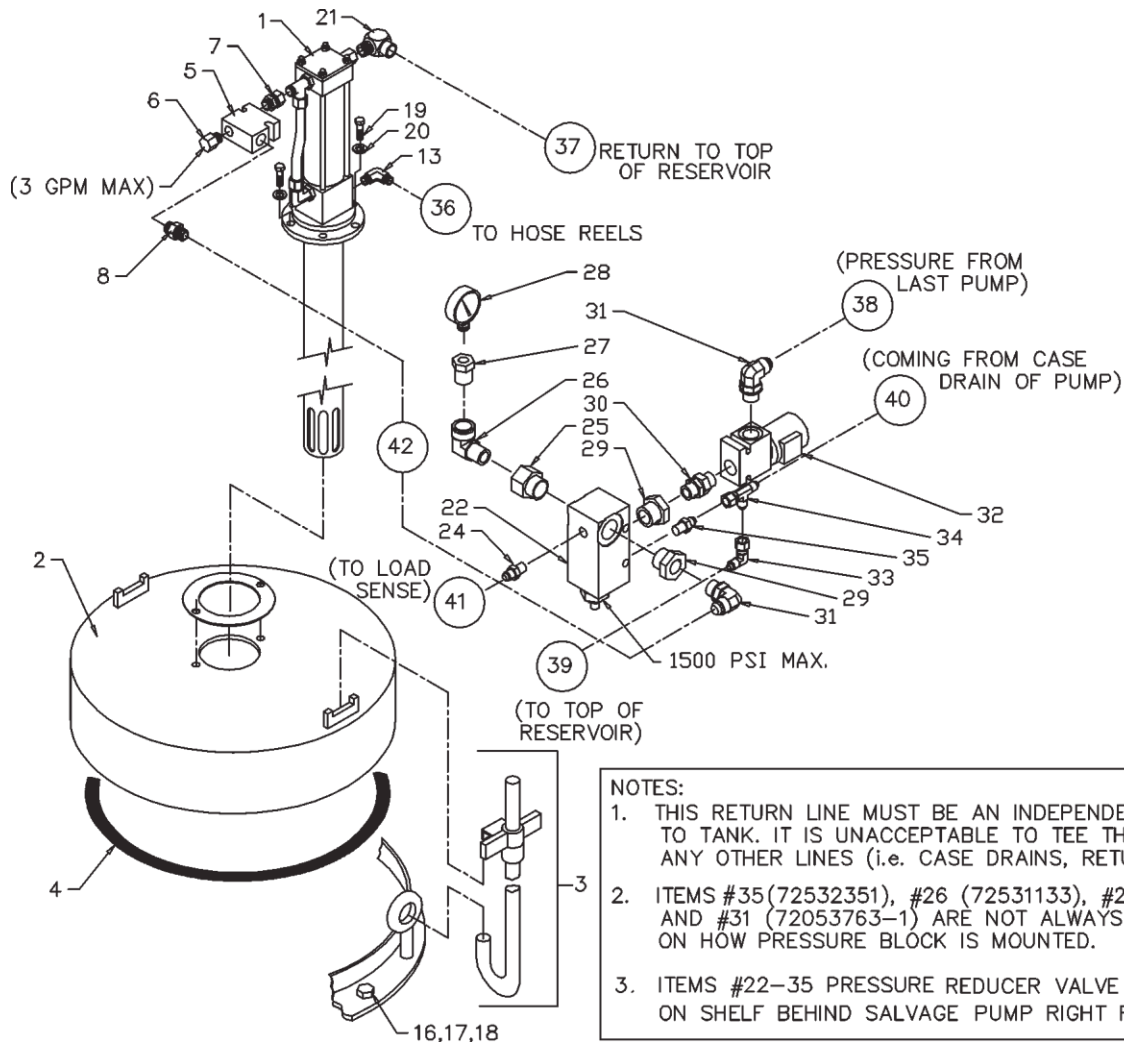
Item No.	Part No.	Description	Qty.
1.	60110548	MTG PLT-LUBE PUMP (PRODUCT)	1
2.	73051492	TRANSFER UNIT	1
3.	5v021870	MANIFOLD-PUMP (GEAR) LUBE BODY	1
5.	72532369	ADPTR-M STR/M JIC 12 16	1
6.	72532358	ADPTR-M STR/M JIC 8 8	5
7.	72533015	UNION-BULKHEAD JIC 16 (1 5/16-12)	1
8.	70143168	TUBE ASM-HYD LUBE 1.00 TUBE	1
9.	72062134	NUT .50-13 HEX ACORN HIGH ZINC	4
10.	73054574	VALVE-SOL SV10-20-0-N-12DS	1
11.	7Q072217	O RING 1.19X 1.44X .12 70	2
12.	70143230	TUBE ASM-HYD 1.00OD W/1.00ADPT 45.88inLG	1
13.	72060026	CAP SCR .31-18X 1.25 HH GR5 Z	4
14.	72063050	WASHER .31 LOCK	4
15.	72063053	WASHER .50 LOCK	6
16.	76392598	WASHER-BONDED .31 PLTD	4
17.	72060091	CAP SCR .50-13X 1.00 HH GR5 Z	2
18.	51703935	HOSE-FF .50 X 327.00 (8-8) 100R2	1
20.	72053499	ADPTR-MPT/M JIC .25 4	2
21.	72532140	PLUG-STR HEX HD STL .56	1
22.	76392369	GASKET-LUBE TANK .12 THK 7X7	1
23.	73054910	CARTRIDGE-FLOW DE-FCA-00-8.0	1

24.	72053758	ELBOW-M STR/90/M JIC 4 4	1
REV. D 20190219			

LUBE SYSTEM-400# GREASE (51714543)

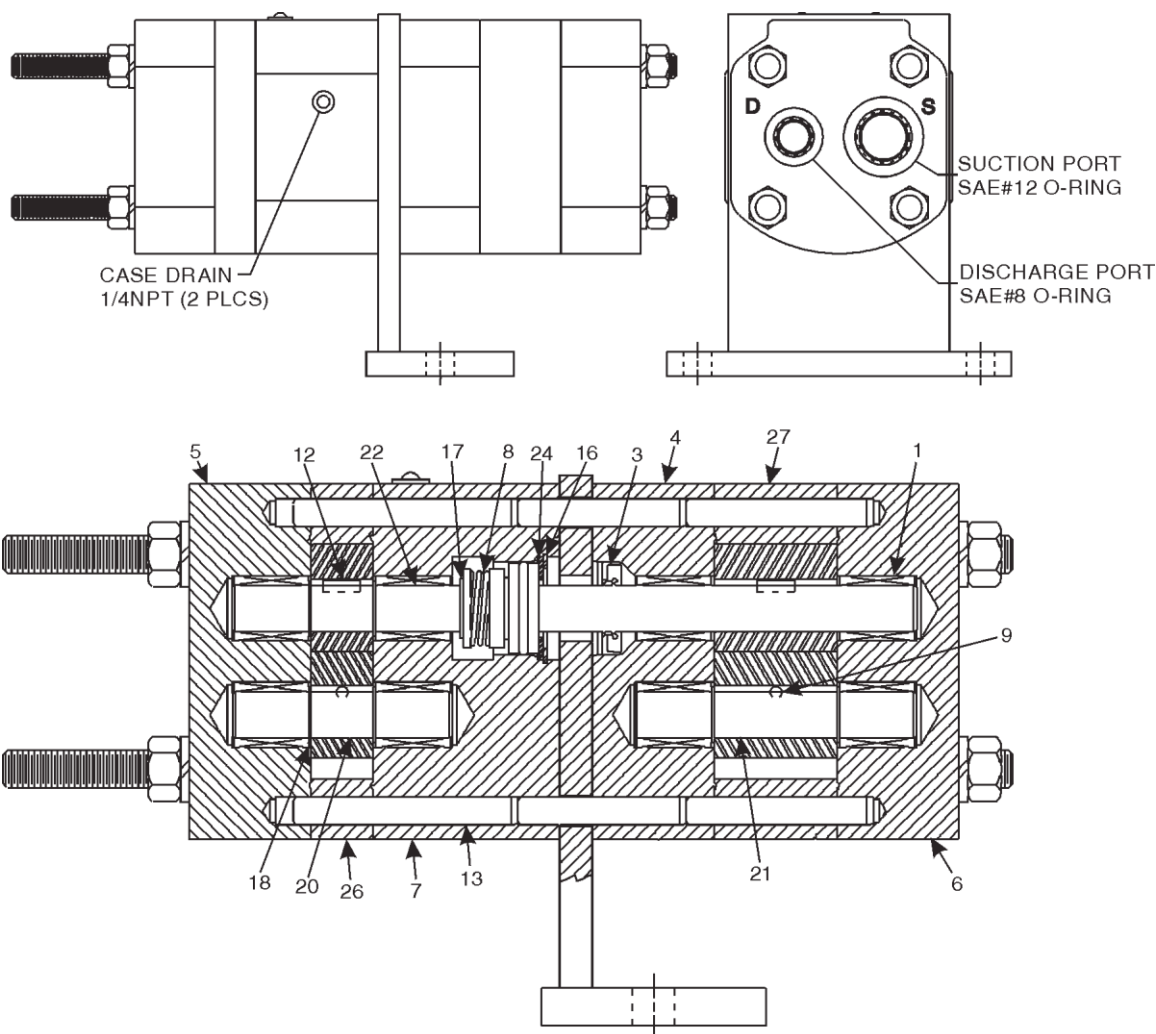
1.	70732897	PUMP-GREASE	1	26.	72531133	STREET ELBOW 1/2NPT	2
2.	70073443	KIT-DRUM COVER	1	27.	72531830	REDUCER BUSHING 1/2 - 1/4NPT	1
3.	70073467	KIT-TIE ROD	1	28.	73054435	PR GAUGE 5000 PSI	1
4.	70143811	FOLLOWER PLATE	1	29.	72532951	ADAPTER #12MSTR #8FSTR	2
5.	70143516	VALVE BODY	1	30.	72532728	UNION 3/4MSTR 3/4MSTR	1
6.	73054578	FLOW CTRL VALVE (3GPM MAX)	1	31.	72053763	ELBOW #8MSTR #8MJIC 90°	2
7.	72533304	ADAPTER #8M O-RING #8F	1	32.	73054576	SOLENOID VALVE	1
8.	72532358	ADAPTER #8MSTR #8MJIC	1	33.	72532690	ELBOW #4MJIC #4FJIC SWVL	1
11.	70143874	BARREL-GREASE	1	34.	72532981	TEE 7/16JIC SWVLNUTRUN	1
13.	72531421	ELBOW 1/2MPT #8MJIC 90°	1	35.	72532351	ADAPTER #4MSTR #4MJIC	2
14.	72053497	ADAPTER 1/2MPT #8MJIC	1	36.	51713768	HOSE ASM FF 1/2X88	1
16.	72060025	CAP SCR 5/16-18X1 HHGR5	4	37.	51713770	HOSE ASM FF 3/4X252	1
17.	72063002	WASHER 5/16 WRT	8	38.	51713767	HOSE ASM FF 1/2X20	1
18.	72062109	NUT 5/16-18 LOCK	4	39.	51713766	HOSE ASM FF 1/4X208	1
19.	72063049	WASHER 1/4 LOCK	2	40.	51713765	HOSE ASM FF 1/4X16	1
20.	72060004	CAP SCR 1/4-20X1 HHGR5	2	41.	51713772	HOSE ASM FF 3/4X48	1
21.	72531427	ELBOW 3/4MPT #12MJIC 90°	1	42.	51713769	HOSE ASM FF 1/2X90	1
22.	60118612	PR REDUCER W/ 1/4 TAP	1	45.	77041499	SWITCH-ROCKER RED ACTUATOR	1*
24.	72053499	ADAPTER 1/4MPT #4MJIC	1	46.	77041500	SWITCH-ROCKER BODY	1*
25.	72053746	ADAPTER #12MSTR 1/2FPT	1	48.	51713743	HOSE REEL KIT-GREASE 3/8X50'	1*

* NOT SHOWN.



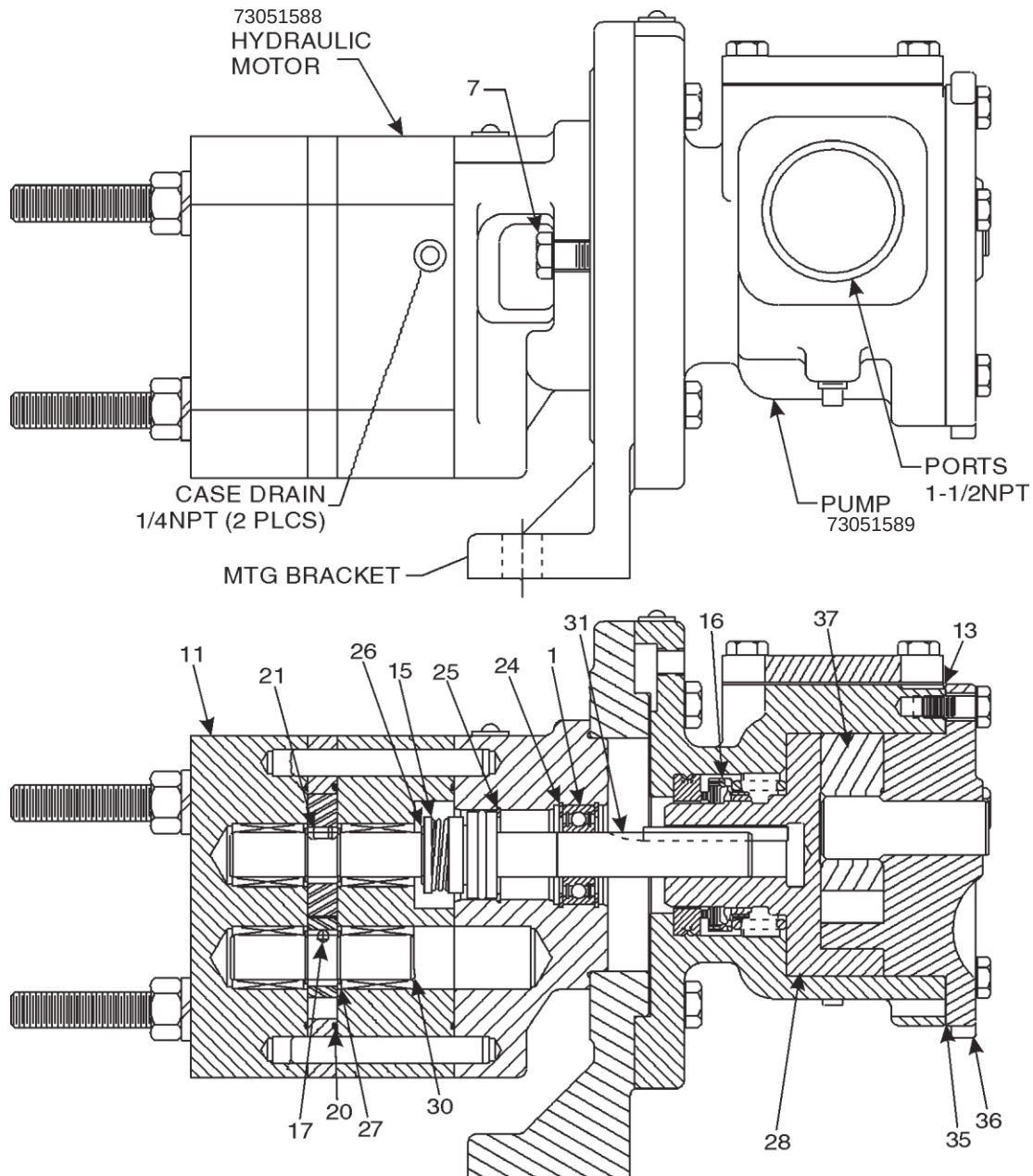
PUMP-OIL (73051492)

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/ *)	



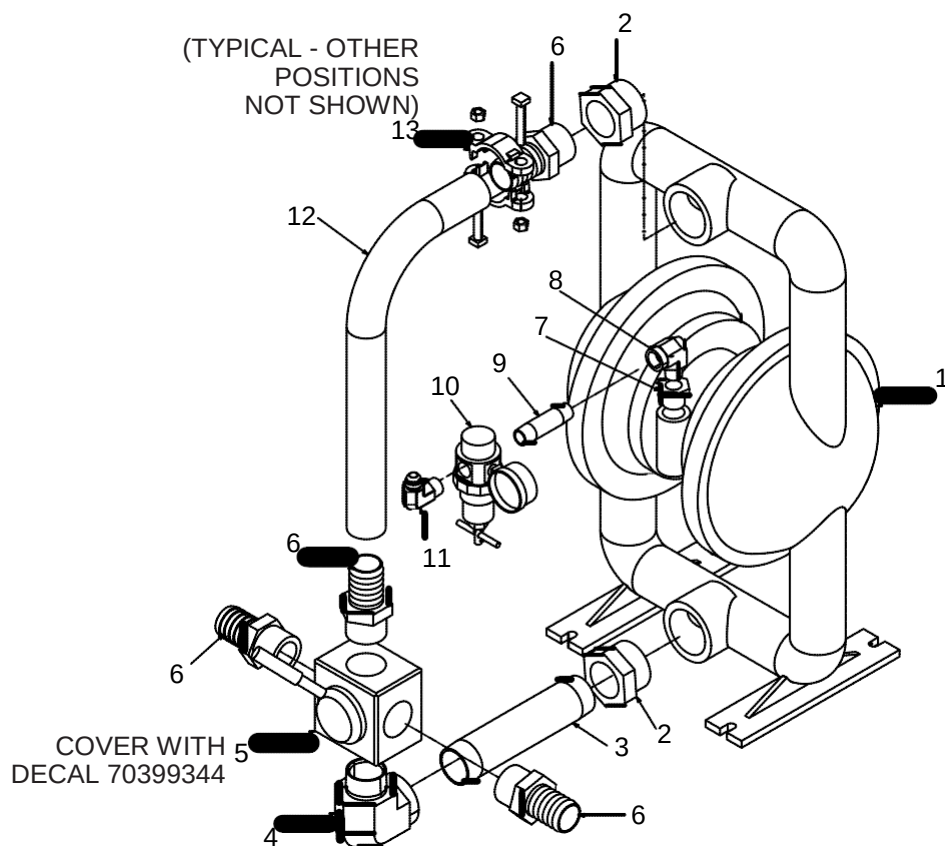
PUMP-SALVAGE (73051493)

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				



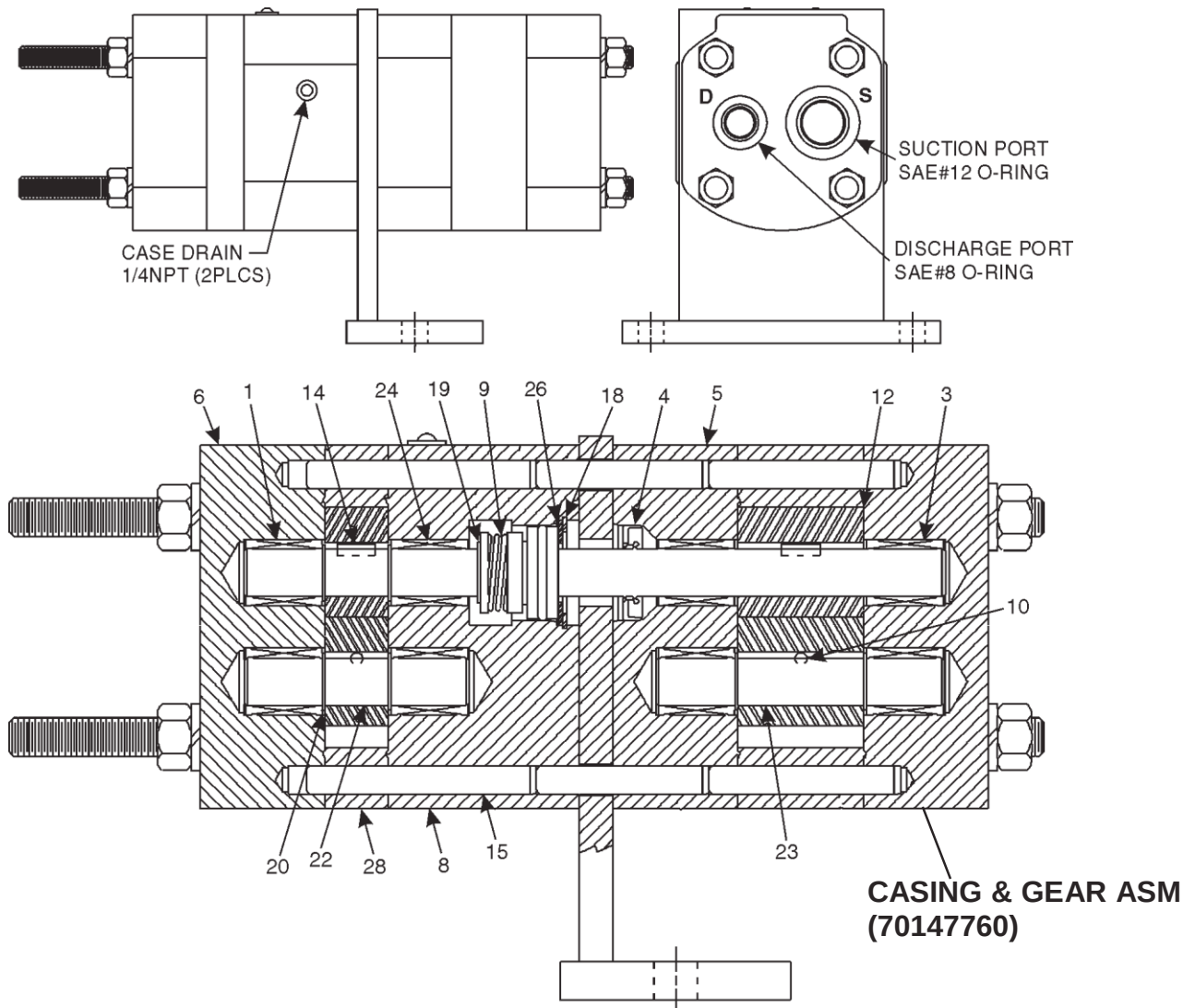
PUMP ASSEMBLY - SALVAGE (51712725)

1.	73051523	PUMP	1
2.	72534398	REDUCER BUSH-STL 2.00-1.50	2
3.	72053259	NIPPLE-PIPE BLK 1.50X 8.00	1
4.	72534434	ELBOW-STREET STL 1.50 X 90 DEG	1
5.	70734031	VALVE-4 WAY 1.5 INCH	1
6.	72531552	NIPPLE-BARB STL 1.50MPT 1.50	4
7.	72531833	REDUCER BUSH-STL .75- .50	1
8.	72531133	ELBOW-STREET STL .50 X 90 DEG	1
9.	72053094	NIPPLE-PIPE BLK .50X 3.00	1
10.	70048017	REGULATOR-AIR 3/8in NPT	1
11.	72531421	ELBOW-MPT/90/M JIC .50 8	1
12.	89394074	HOSE-HYD 1.50 100R4	A/R
13.	72066517	CLAMP-HOSE 1.50 2-BOLT	4



PUMP-WATER/ANTI-FREEZE (73051630)

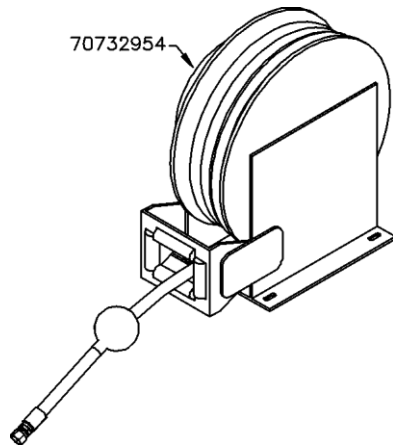
1.	70055208	NEEDLE BEARING 1"	4	15.	72661463	DOWEL PIN .38 DIA X 3	2
3.	70055277	BUSHING	4	18.	72661493	RETAINING RING-INTERNAL	1*
4.	76393477	LIP SEAL	1*	19.	70145024	RETAINING RING-EXTERNAL	1*
5.	70145647	SEPARATION PLATE	1	20.	70143809	RETAINING RING-EXTERNAL	6*
6.	70143775	SEPARATION PLATE	1	22.	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/*)	



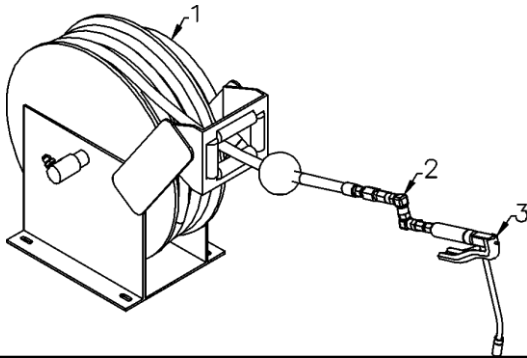
HOSE REEL ASM-AIR .50x50'	9-3
HOSE REEL ASM-GREASE .38x50'	9-3
LO PROFILE 18" HIGH	9-3
HOSE REEL ASM-ANTI-FREEZE SALVAGE .50x50'	9-3
HOSE REEL KIT - GREASE - .38 x 50' (51713743)	9-3
HOSE REEL ASM-OIL & ANTI-FREEZE .50x50'	9-3
HOSE REEL KIT- FUEL 1.0x50'(51711924)	9-4
HOSE REEL KIT - SALVAGE 1.25x35' (51711922)	9-4
HOSE REEL KIT - SALVAGE 1.0x35' (51713740)	9-4
HOSE REEL KIT - FUEL - 1.5"x50' (51711925)	9-4
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HOSE REEL - NOZZLE WITH HOLDER (51714245)	9-5
HOSE REEL-GREASE/WASH .38" (70733061)	9-6
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HOSE REEL- FUEL 1.0" (70732533)	9-9
HOSE REEL 1.5" (70073607)	9-10
HOSE REEL KIT, FUEL, STATIC (70732129)	9-11
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NON-METERED VALVE-DISPENSING (70731830)	9-15
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HOSE REEL-VALVE (70143289)	9-16
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SWIVEL SEAL KIT (70146315)	9-18
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WATER HEATER (77040350)	9-23
UNDER SEAT HEATER (70073279)	9-24
UNDER SEAT HEATER (70073278)	9-24

NOTES

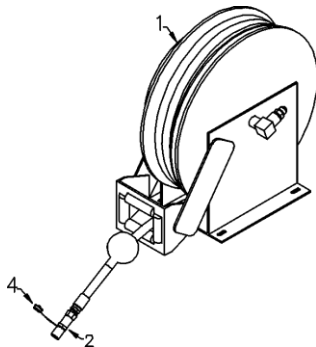
[illegible]

HOSE REEL ASM-AIR .50x50'**HOSE REEL ASM-GREASE .38x50'
LO PROFILE 18" HIGH**

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

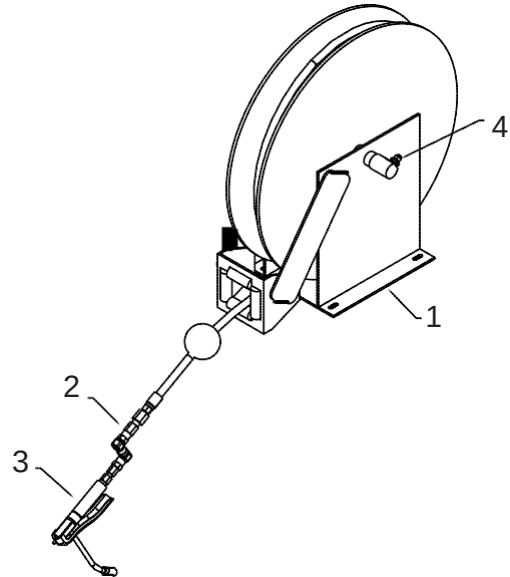
**HOSE REEL ASM-ANTI-FREEZE
SALVAGE .50x50'**

- | | | | |
|----|----------|------------------------------|---|
| 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 KIT - GREASE - .38 x 50'
(51713743)**

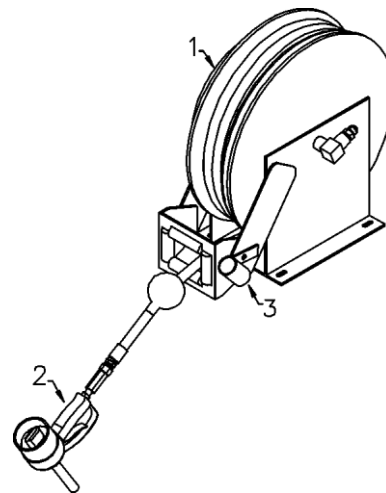
REV. A 20050922

- | | | | |
|----|----------|-----------------------|---|
| 1. | 70732175 | REEL-GREASE | 1 |
| 2. | 70732888 | SWIVEL 3/8 NPT | 1 |
| 3. | 73054873 | VALVE-GREASE 3/8 NPT | 1 |
| 4. | 72053670 | ADAPTR 3/8 MPT #8MJIC | 1 |

**HOSE REEL ASM-OIL & ANTI-FREEZE
.50x50'**

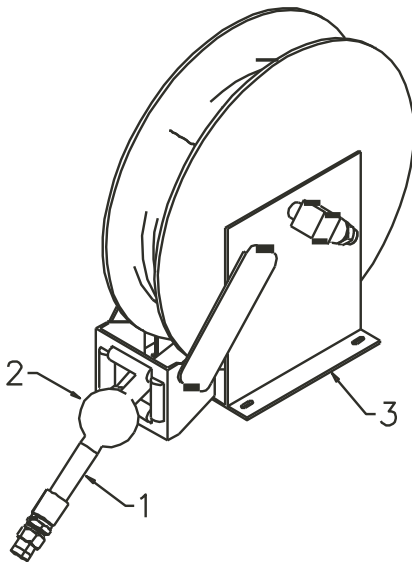
- A. OIL HOSE REEL ASM
B. ANTIFREEZE HOSE REEL ASM

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



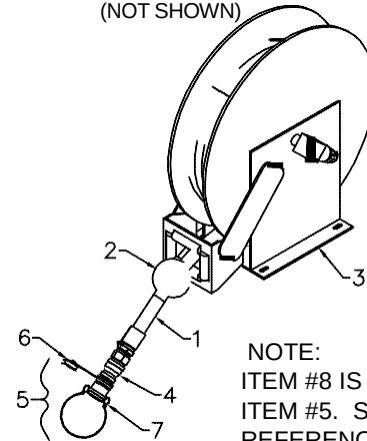
HOSE REEL KIT - FUEL 1.0x50'(51711924)

- | | | | |
|----|----------|------------------------------|---|
| 1. | 51391368 | HOSE ASM - 1.00 x 50' (FUEL) | 1 |
| 2. | 70391369 | BALL STOP - 1" HOSE | 1 |
| 3. | 70732533 | REEL-FUEL | 1 |



HOSE REEL KIT - SALVAGE 1.0x35' (51713740)

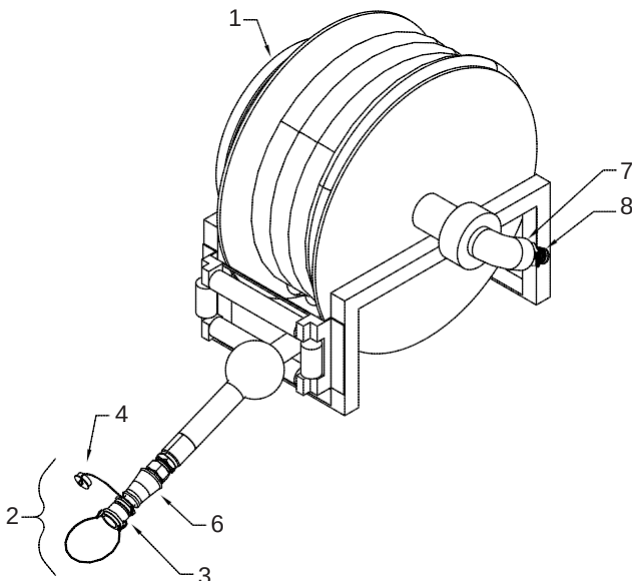
- | | | | |
|--------------------|----------|--------------------------------|-------|
| 1. | 51392355 | HOSE ASM 1.00 X 35' (SUCTION) | 1 |
| 2. | 70391369 | BALL STOP 1" HOSE | 1 |
| 3. | 70732174 | REEL - SALVAGE | 1 |
| 4. | 72053436 | COUPLING - BLK 1.00 - .75 | 1 |
| 5. | 72532422 | FAST-FILL SOCKET | 1 |
| (INCLUDES 5,6,7,8) | | | |
| 6. | 72532421 | FAST-FILL NOZZLE | 1 REF |
| 7. | 72532423 | FAST-FILL CAP | 1 REF |
| 8. | 72532408 | FAST-FILL RECEIVER (NOT SHOWN) | 1 REF |



HOSE REEL KIT - SALVAGE 1.25x35' (51711922)

REV. A 20050922

- | | | | |
|----|----------|-------------------------------------|-------|
| 1. | 70732996 | REEL-SALVAGE | 1 |
| 2. | 72532422 | FAST FILL - SOCKET (INCLUDES 3,4,5) | 1 |
| 3. | 72532421 | FAST FILL - NOZZLE | 1 REF |
| 4. | 72532423 | FAST FILL - CAP | 1 REF |
| 5. | 72532408 | FAST FILL - RECEIVER (NOT SHOWN) | 1 REF |
| 6. | 72053489 | COUPLING - BLK 1.25-.75 | 1 |
| 7. | 72053378 | REDUCER BUSHING, BLK 1.25-.75 | 1 |
| 8. | 72531550 | NIPPLE, BARB STL 1.25MPT 1.25 | 1 |

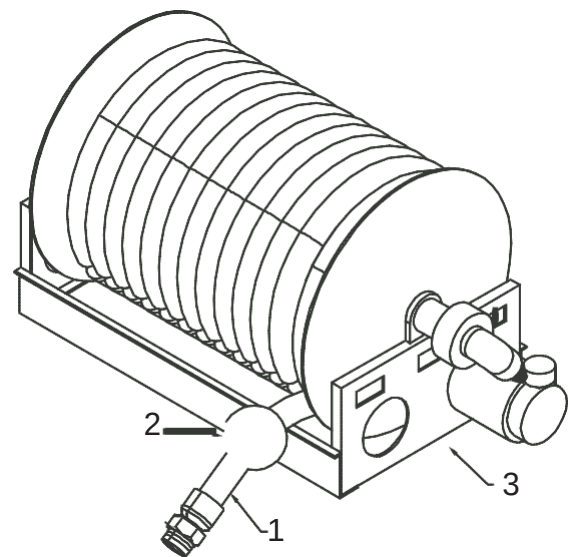


HOSE REEL KIT - FUEL - 1.5"x50' (51711925)

- | | | | |
|----|----------|----------------------------|---|
| 1. | 51392430 | HOSE ASM - 1.50x50' (FUEL) | 1 |
| 2. | 70391369 | BALL STOP - 1" HOSE | 1 |
| 3. | 70073607 | REEL - ELECTRIC HOSE | 1 |

HOSE REEL KIT - FUEL - 1.5"x100' (51712719)

- | | | | |
|----|----------|----------------------------|---|
| 1. | 51392875 | HOSE ASM- 1.50x100' (FUEL) | 1 |
| 2. | 70391369 | BALL STOP 1" HOSE | 1 |
| 3. | 70732569 | REEL-ELEC FUEL | 1 |

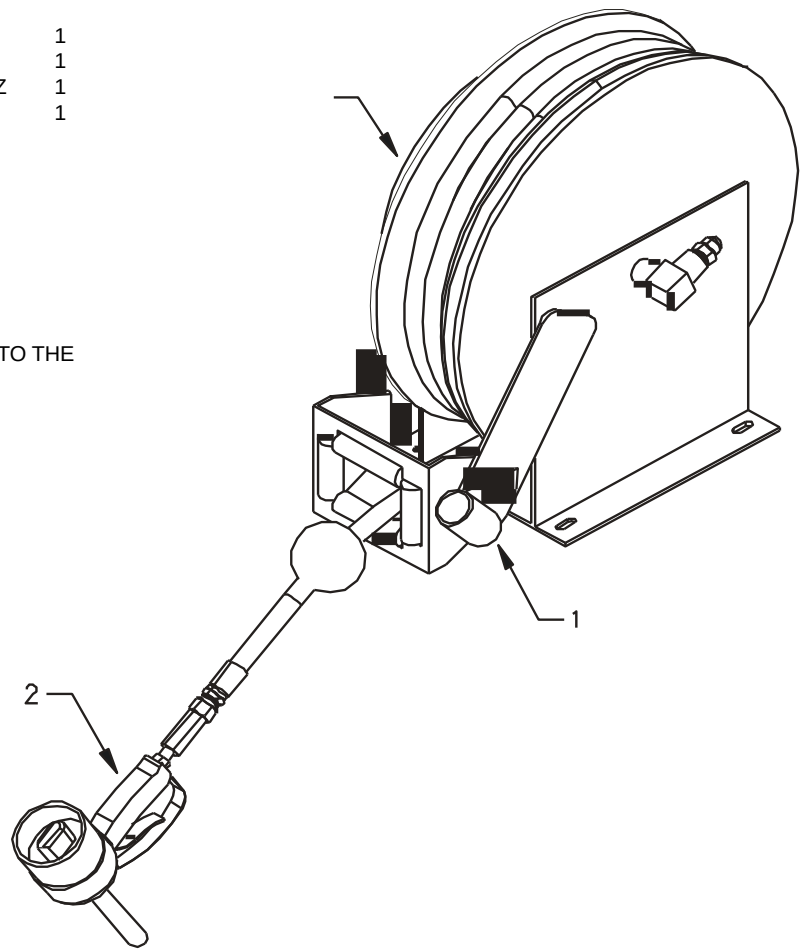


HOSE REEL - NOZZLE WITH HOLDER (51714245)

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

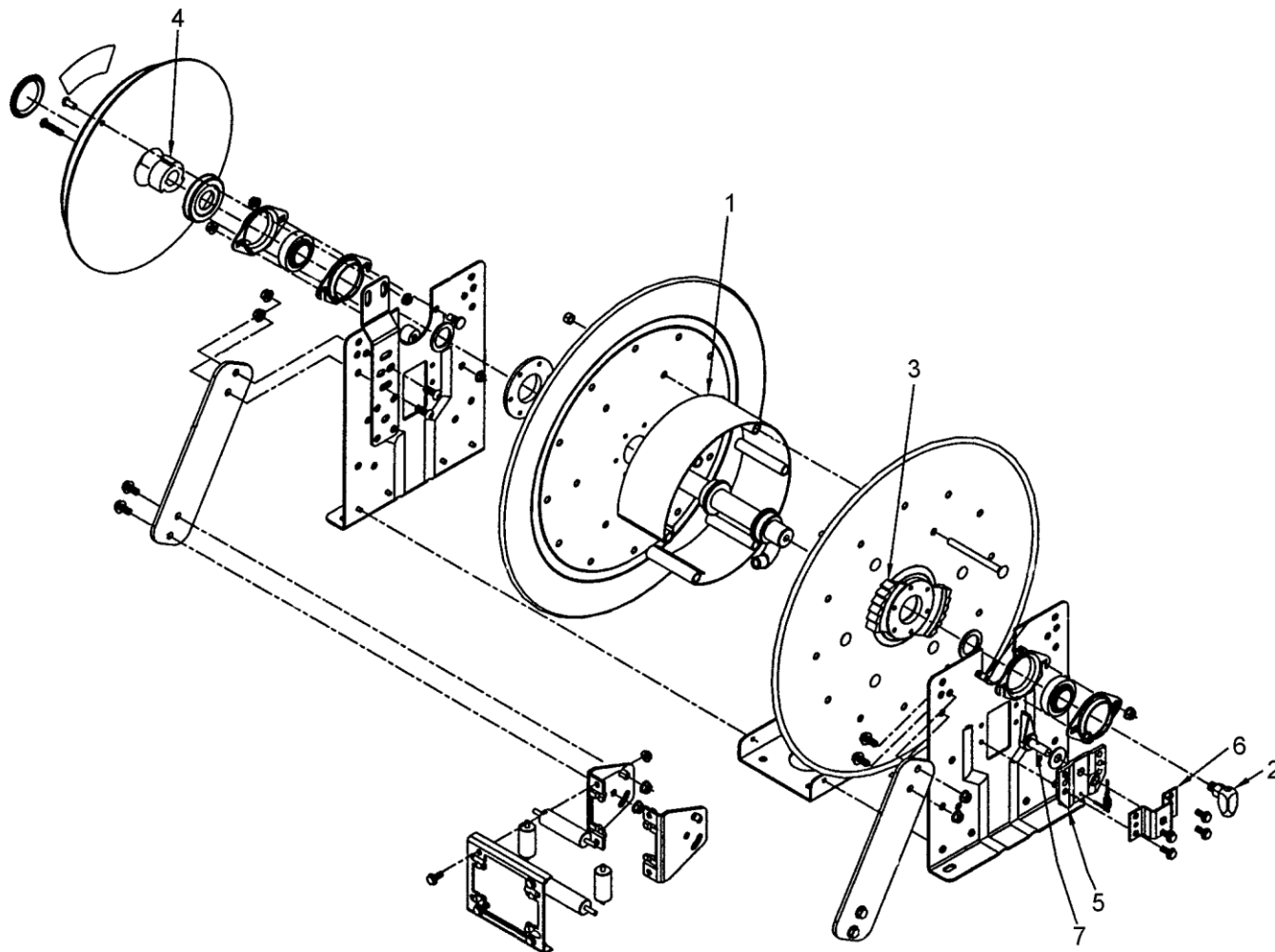
NOTE:

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



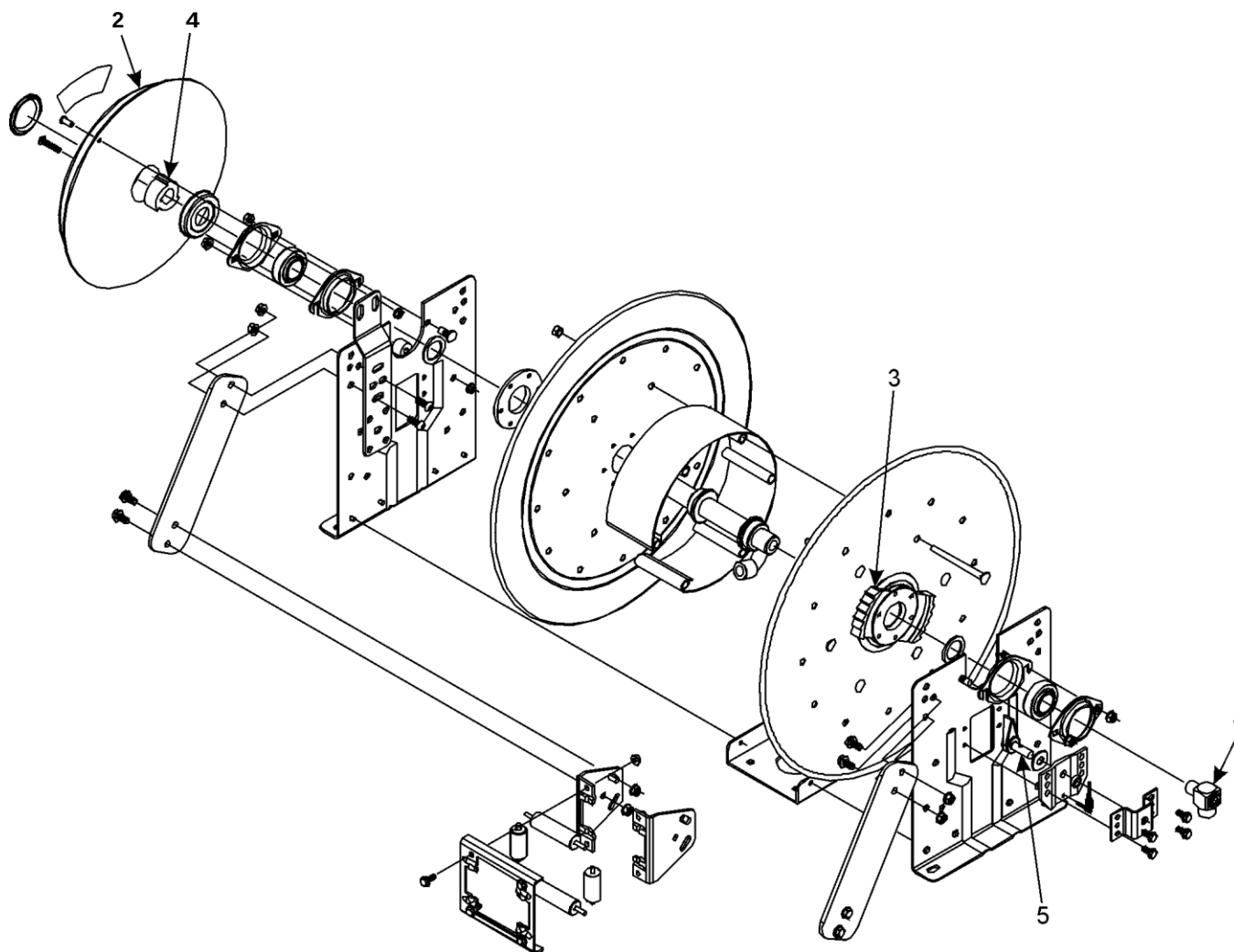
HOSE REEL-GREASE/WASH .38" (70733061)

1	70146306	DRUM 10-1/2" DIA	1
	70146307	DRUM 15-1/2" DIA	1
2	70146418	3/8" 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



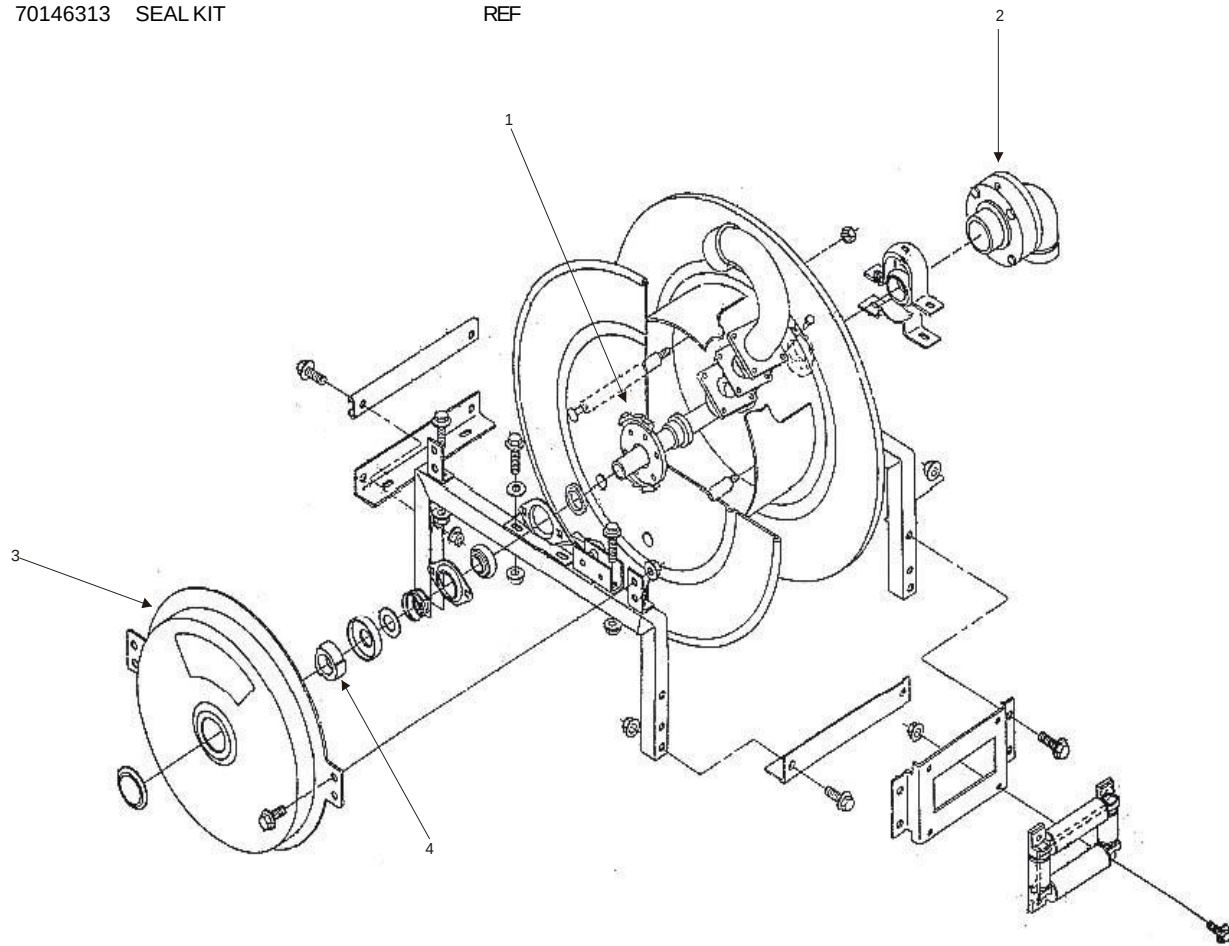
HOSE REEL-AF/OIL -A/F SALVAGE .50"
(70732362)

1.	72533654	SWVL JOINT 1/2" goo MF	1
	70146314	SEAL KIT	REF
2.	73051731	SPRING MOTOR-J	1
3.	70145660	RATCHETWHEEL	1
4.	70146309	SPRINGARBOR	1
5.	70146312	PAWL& PIN	1



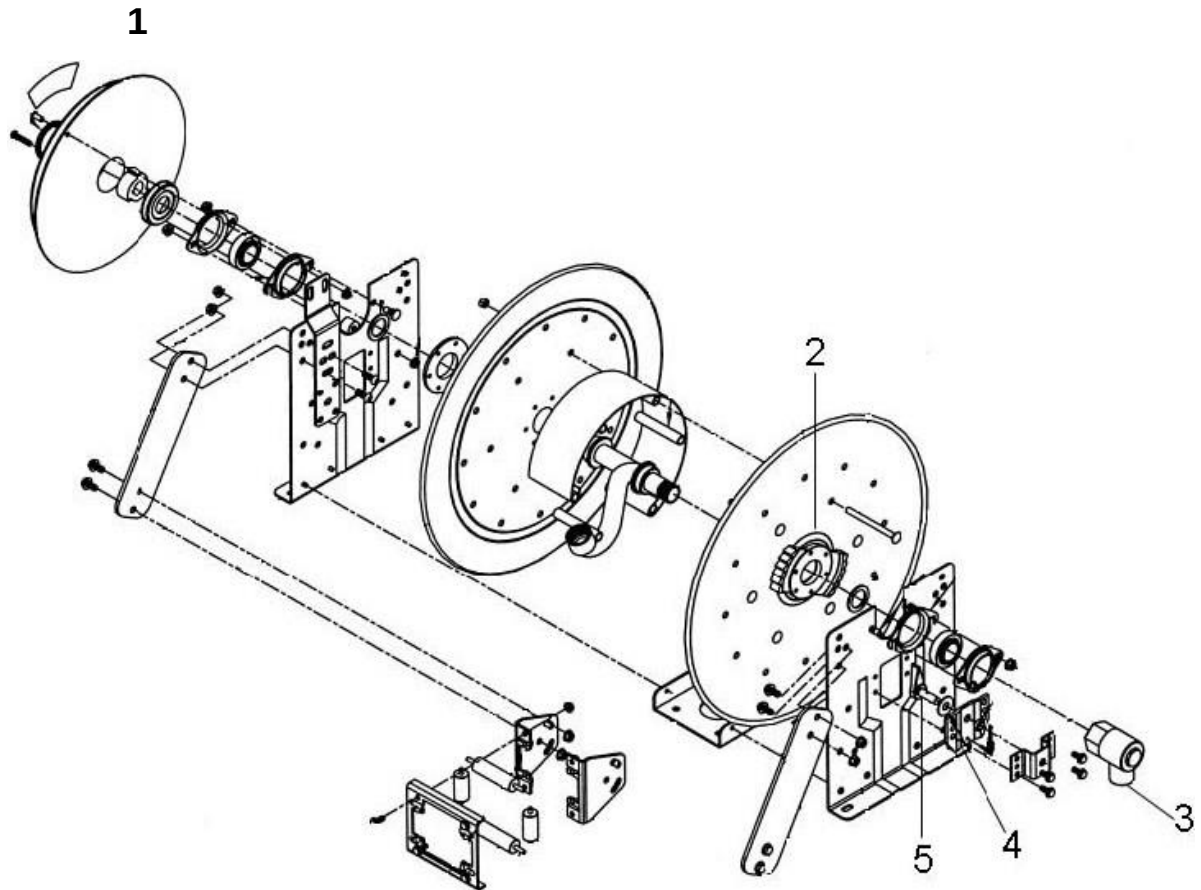
HOSE REEL, SALVAGE, 1.25" (70732996)

1.	RATCHETWHEEL	1
2.	70733365 1-1/2" 90° FxF SWIVEL	1
3.	70143893 SPRING MOTOR	1
4.	70146309 SPRING ARBOR	1
	70146313 SEAL KIT	REF



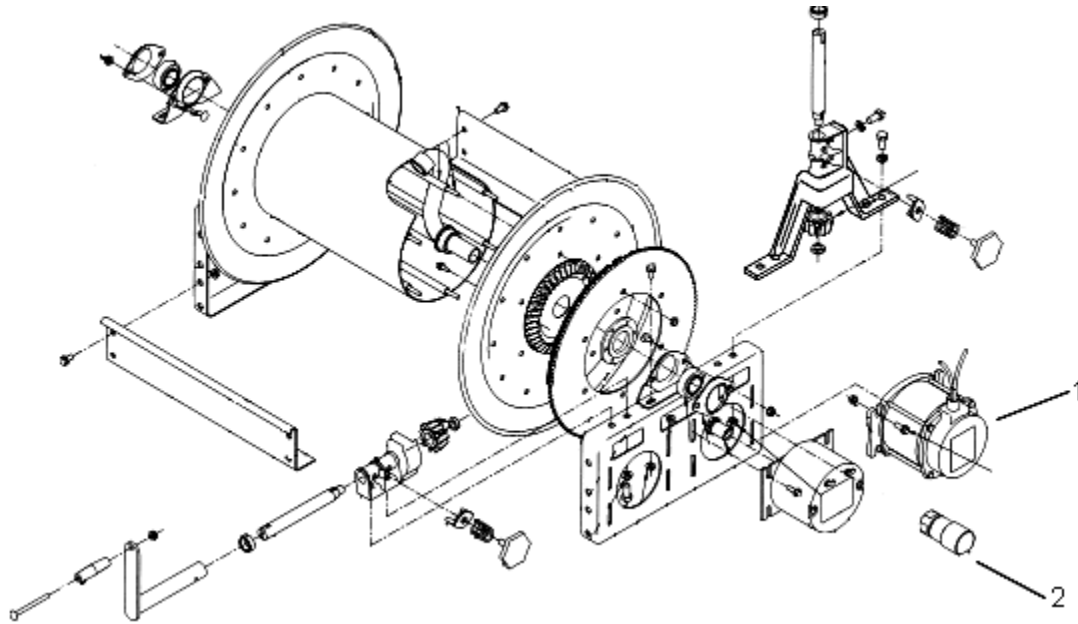
HOSE REEL-FUEL 1.0" (70732533)

- | | | | |
|----|----------|------------------------------|---|
| 1. | 70146309 | SPRING ARBOR | 1 |
| 2. | 70145660 | RATCHETWHEEL | 1 |
| 3. | 70732529 | 1"SWIVEL | 1 |
| 4. | 70146310 | RATCHETPAWILHOUSING | 1 |
| 5. | 70146312 | PAWIL & PIN | 1 |
| 6. | 70146315 | SWIVELSEALKIT
(NOT SHOWN) | 1 |



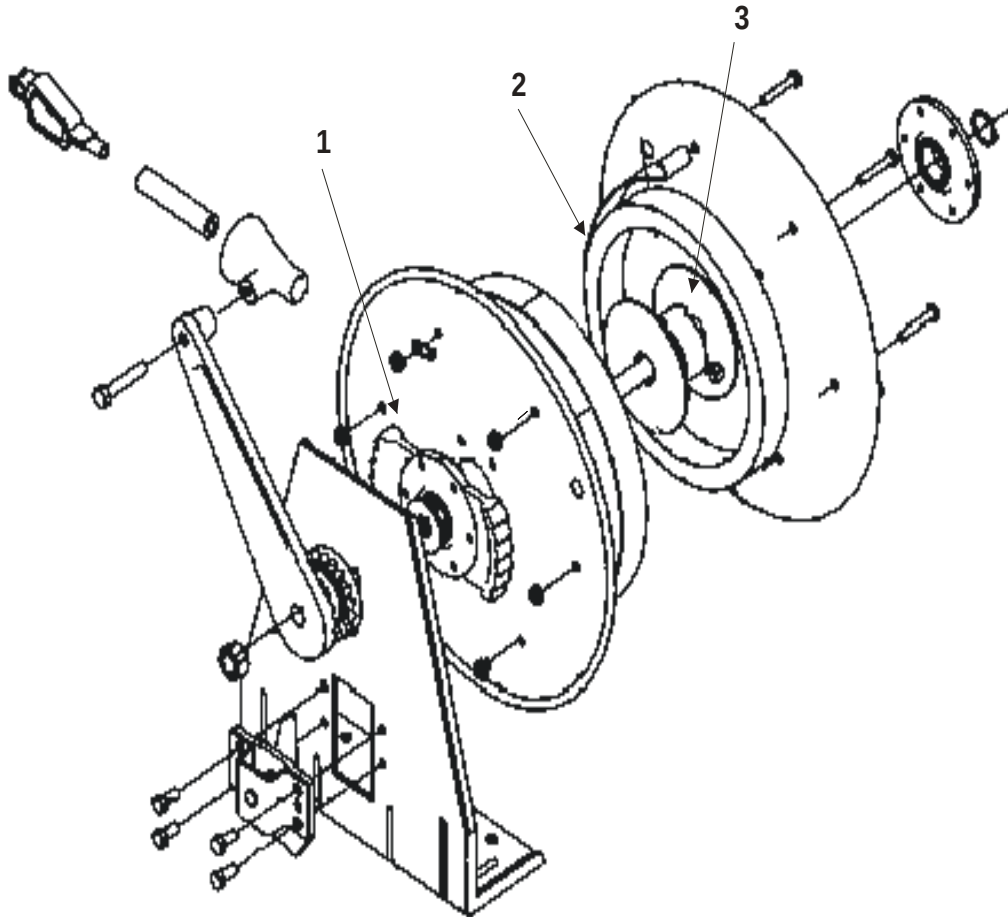
HOSE REEL – 1.5" (70073607)

- | | | | |
|----|----------|-----------------------------|---|
| 1. | 73051542 | MOTOR-12V | 1 |
| 2. | 70733365 | 1-1/2" 90° FxF SWIVEL JOINT | 1 |
| 3. | 70146313 | SEAL KIT FOR SW JOINT | 1 |



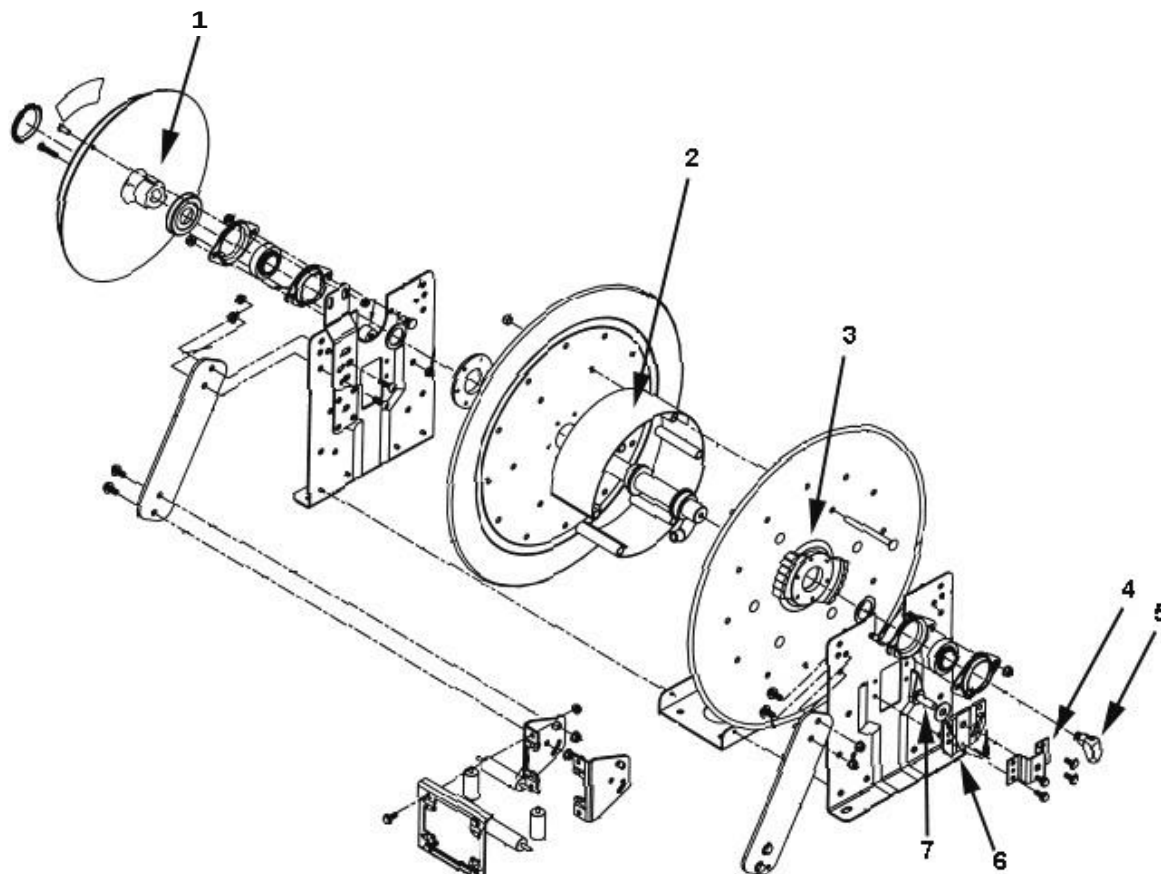
**HOSE REEL KIT, FUEL, STATIC
(70732129)**

- | | | |
|----|---------------|---|
| 1. | RATCHET WHEEL | 1 |
| 2. | HGR SPRING | 1 |
| 3. | HGR ARBOR | 1 |



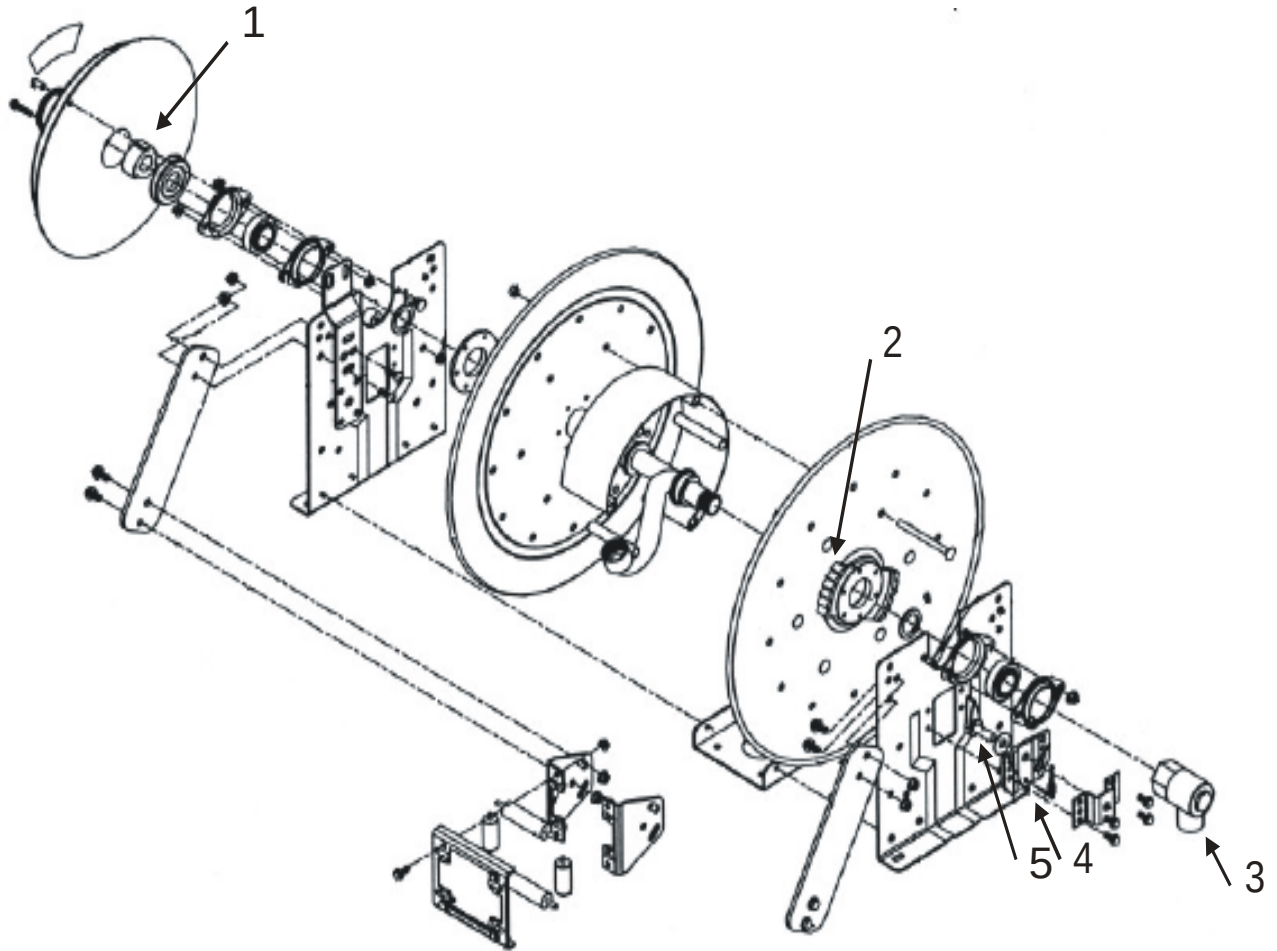
HOSE REEL • GREASE/WASH .38"**(70732175)**

- | | | | |
|----|----------|------------------------------|---|
| 1. | 70146309 | SPRINGARBOR | 1 |
| 2. | 70146306 | DRUM 10-1/2"DIA- WRAP AROUND | 1 |
| 3. | 70145660 | RATCHETWHEEL | 1 |
| 4. | 70146311 | RATCHETPAWLHOUSING, OUTER | 1 |
| 5. | 70143608 | SWIVELJOINT1/4x 90" | 1 |
| 6. | 70146310 | RATCHETPAWLHOUSING, INNER | 1 |
| 7. | 70146312 | PAWL&PIN | 1 |



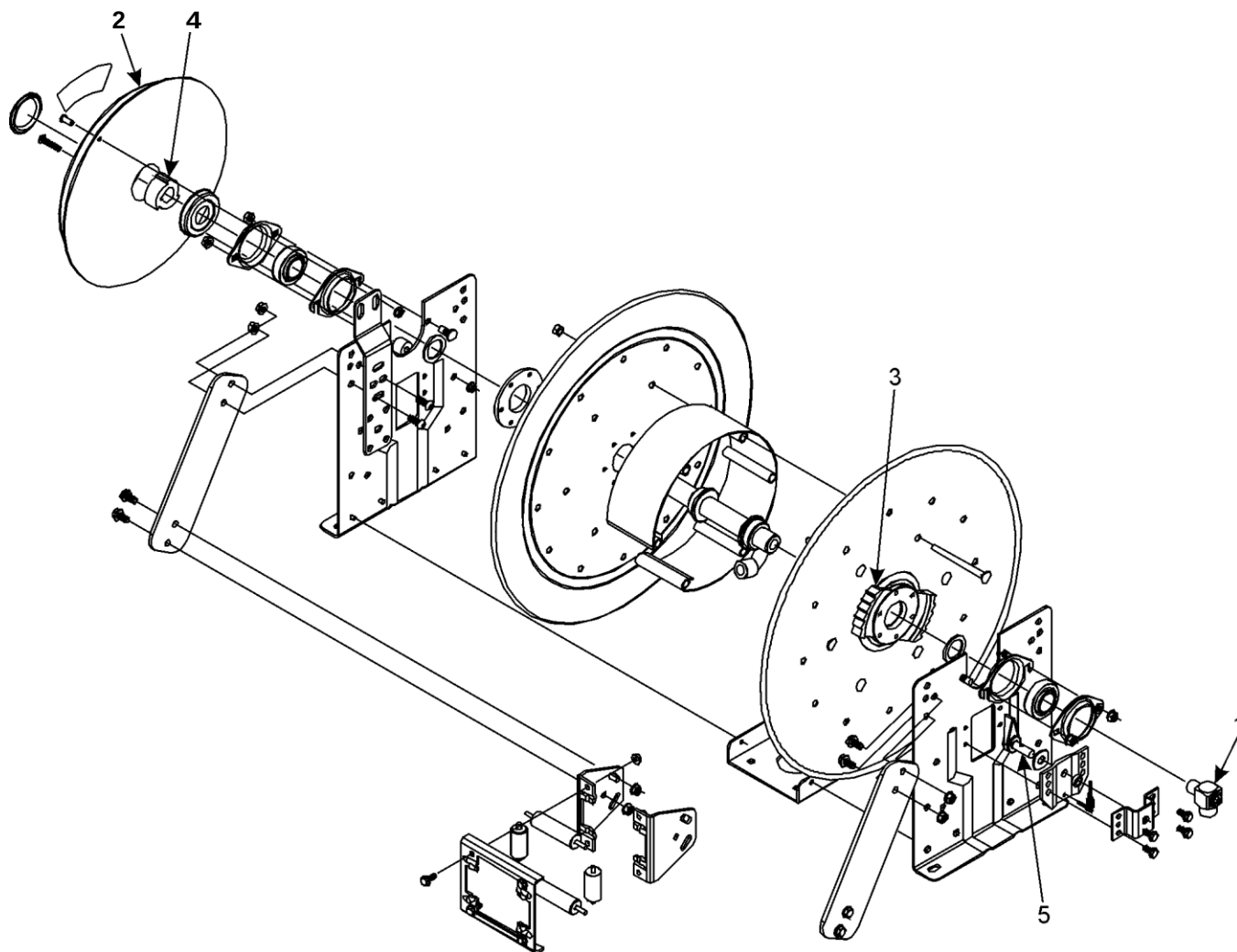
HOSE REEL - SALVAGE 1.0" (70732174)

1. SPRING ARBOR
2. RATCHET WHEEL
3. SWIVEL JOINT, 90° Fx F
4. RATCHET PAWL HOUSING, INNER
5. PAWL & PIN

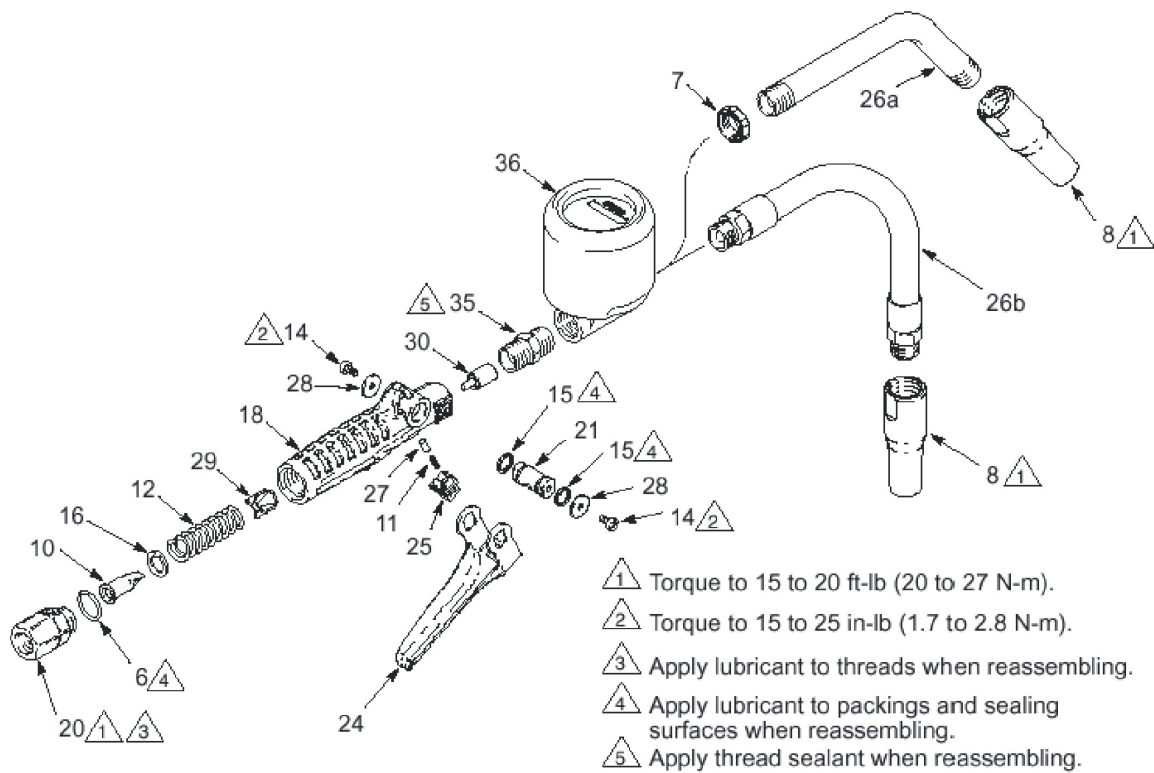


HOSE REEL-AIR .50" (70732954)

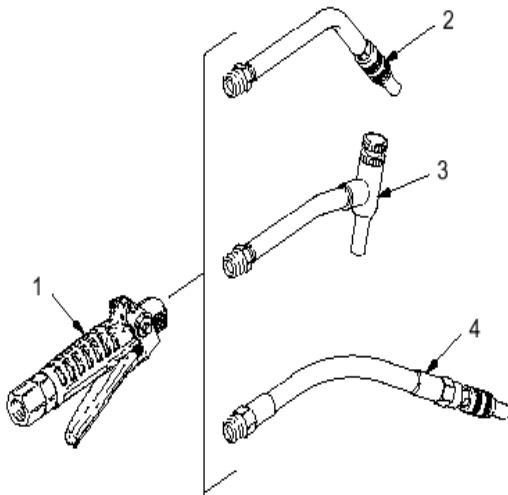
1.	72533654	SWVL JOINT 1/2" 90° MF	1
	70146314	SEAL KIT	REF
2.	73051731	SPRING MOTOR-J	1
3.	70145660	RATCHETWHEEL	1
4.	70146309	SPRINGARBOR	1
5.	70146312	PAWL& PIN	1



METERED VALVE - DISPENSING (70143310)
NON-METERED VALVE-DISPENSING (70731830)



6. O-RING	2	24. TRIGGER	1
7. NUT	1	25. TRIGGER LOCK	1
8. NOZZLE, OIL 72533640	1	26a TUBE 75° BEND, ½ npt	1
10. FILTER	1	26b HOSE, 72533641, ½ npt	1
11. SPRING	1	27. GUIDE	1
12. SPRING	1	28. WASHER	2
14. SCREW	2	29. SEAT	2
15. SEAL	2	30. ROD	1
16. WASHER	1	35. NIPPLE	1
18. HANDLE	1	36. METER, electronic, English, 70733122	1
20. SWIVEL; ¾-14 npt	1	METER, electronic, metric, 7073311	1
21. CAM	1		

**HOSE REEL-VALVE (70143289)**

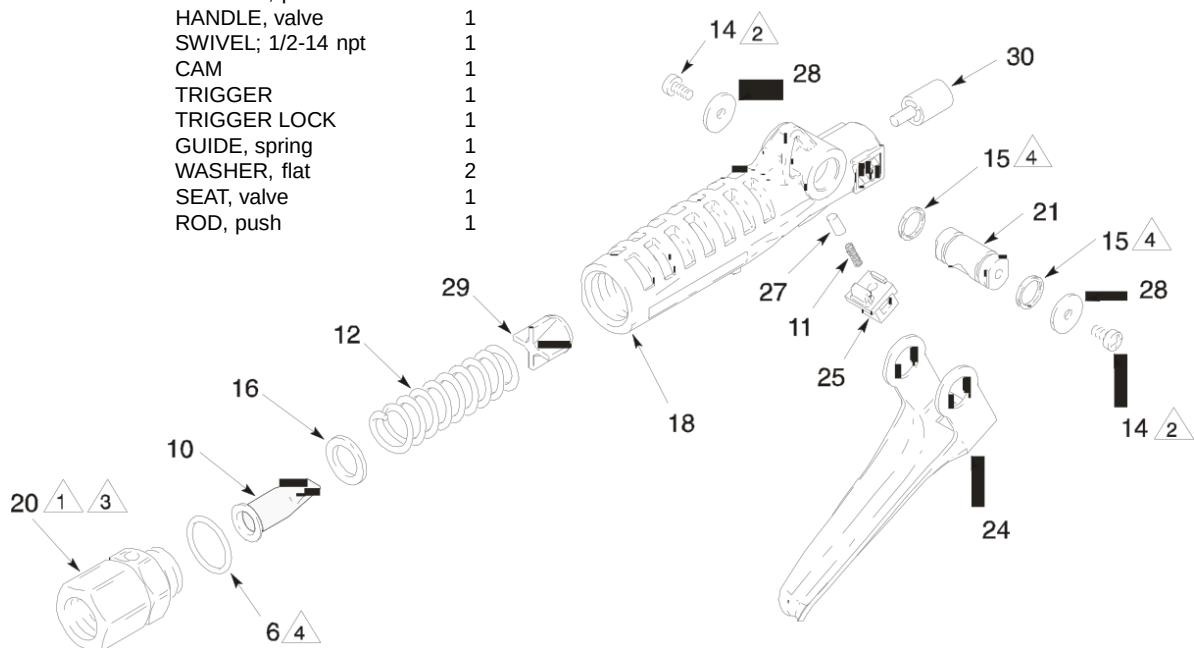
Ref. No.	Part No.	Description	Qty
1*	70145667	VALVE	1
2	70141546	NOZZLE, oil	1

*See parts below.

HOSE REEL-VALVE (70145667)

Ref No.	Part No.	Description	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

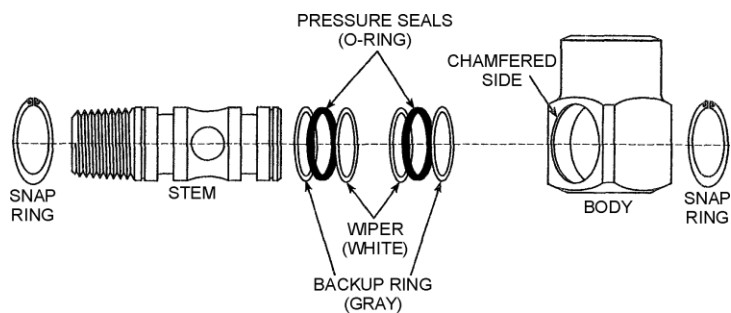


SEAL KIT

(70146314)

REPAIR INSTRUCTIONS

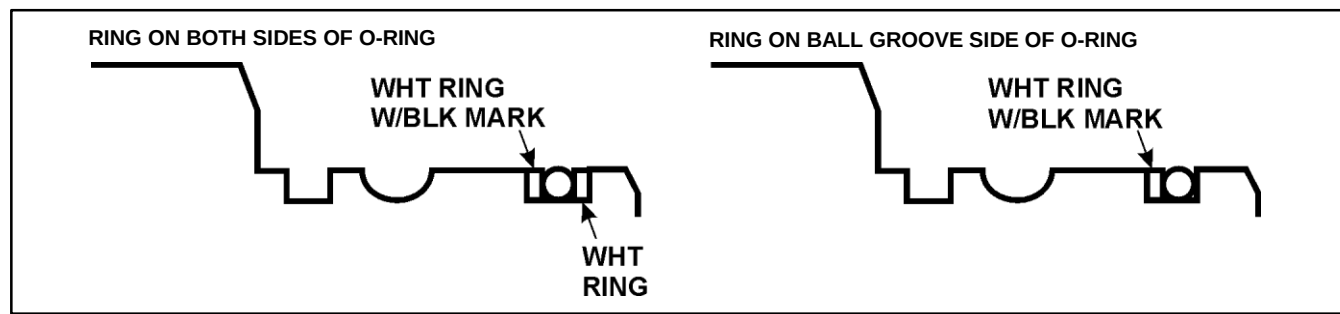
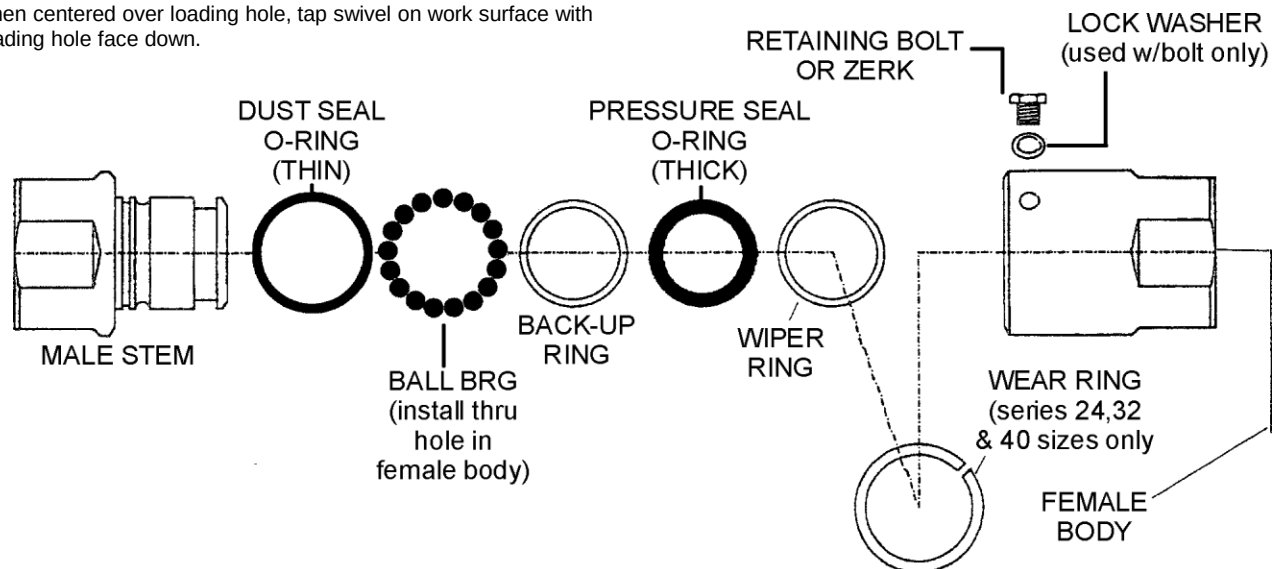
1. Remove snap rings.
2. Pull stem from body.
3. Remove o-rings and backup rings.
4. Clean stem and body
5. Inspect stem and body for corrosion and wear. If corrosion or wear is present, discard and replace swivel.
6. Replace the o-rings, backup rings, and wiper rings as shown below.
7. Lubricate the 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.



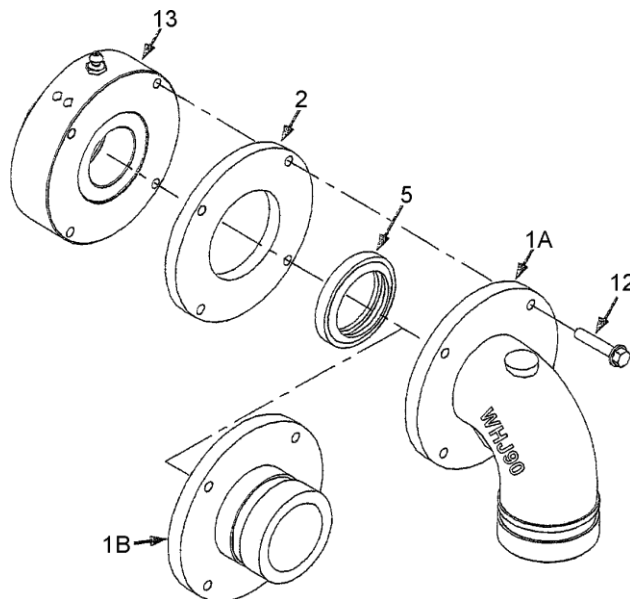
SWIVEL SEAL KIT (70146307)**SWIVEL SEAL KIT (70146315)****REPAIR INSTRUCTIONS**

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 |

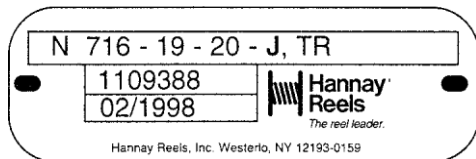


HOSE INSTALLATION (HOSE REEL)

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

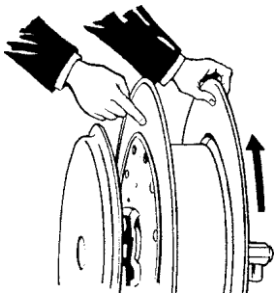


RELEASE SPRING (if necessary)

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.

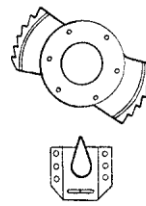


FIGURE A

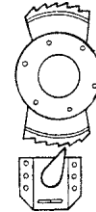


FIGURE B

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.

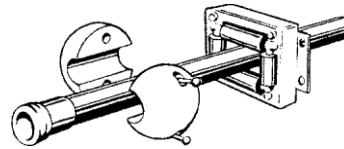


FIGURE C

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

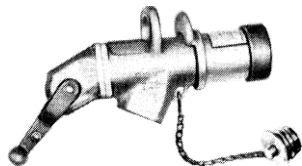
Make certain the reel is adjusted properly. Install a flexible connector to the inlet swivel joint on the side of the reel.

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)



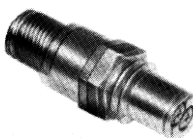
ADAPTER TUBE-STRAIGHT
(72532433)



ADAPTER TUBE-90°
(72532434)



RECEIVER-TRANSMISSION
(72532428)



CAP FOR 72532428
(72532417)



NOZZLE-TRANSMISSION
(72532425)



CAP FOR 72532425
(70143959)



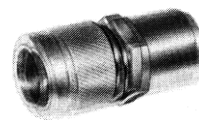
RECEIVER-COOLANT-BRASS
(72532429)



CAP FOR 72532429
(72532418)



NOZZLE-SALVAGE-BRASS
(72532426)



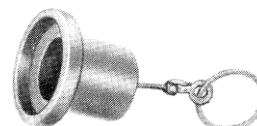
PLUG FOR 72532426
(72532431)



RECEIVER-HYDRAULIC
(72532430)



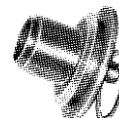
CAP FOR 72532430
(72532419)



NOZZLE-HYDRAULIC
(72532427)

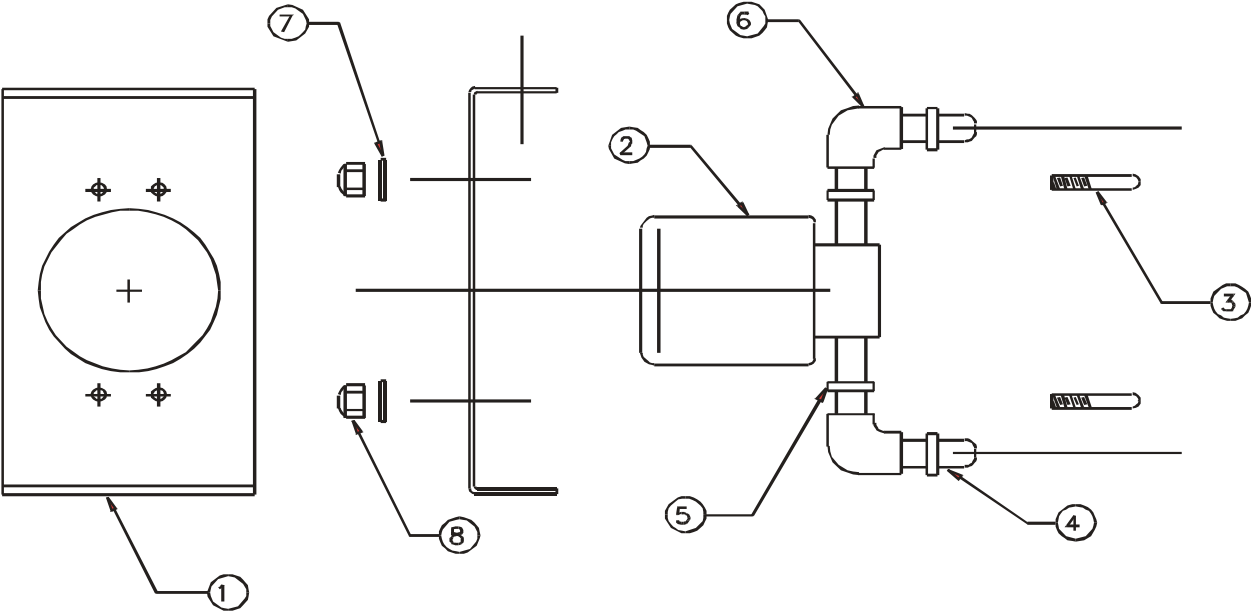


PLUG FOR 72532427
(72532432)



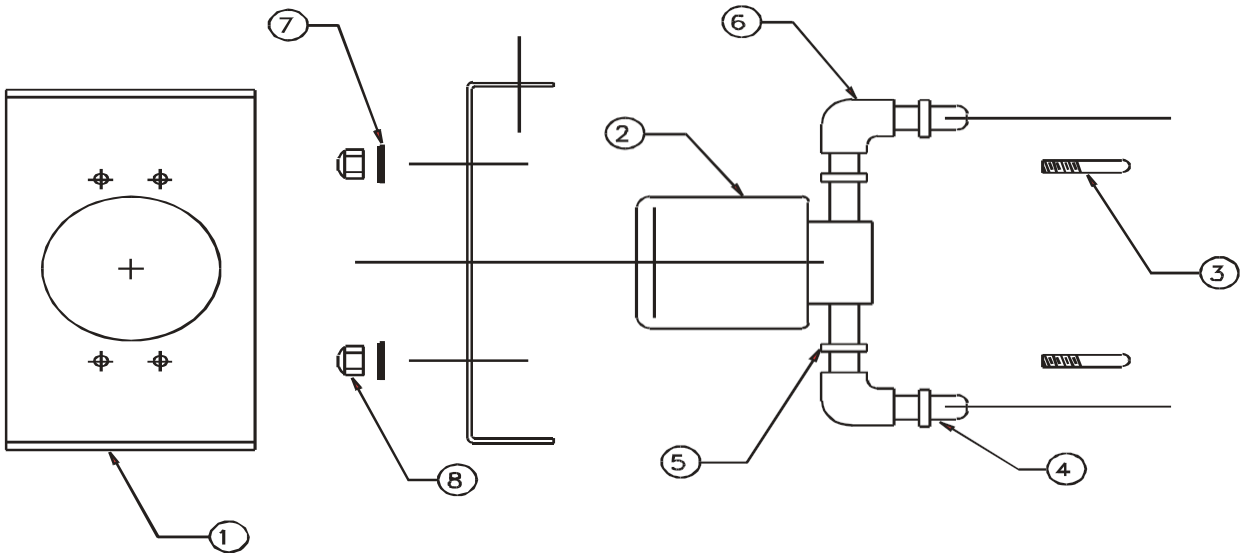
METER ASSEMBLY ELECTRONIC - QUARTS (51713741)

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

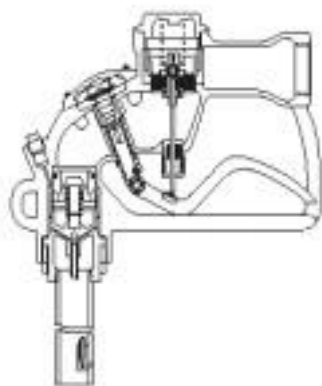
BODY: ALUMINUM

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 em)

W= 9" (23 em)

H = 5" (13 em)

UNIT HEATER (77040107)



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

77040238



UNDER SEAT HEATER (70073279)**SPECIFICATIONS**

- 12,500 BTU/HR
- 150 CFM
- AMP DRAW HIGH-5
- 2 SPEED - 12 VOLT
- WEIGHT - 8 LB
- DIMENSIONS - 7" H x 7" W x 7" D

UNDER SEAT HEATER (70073278)**SPECIFICATIONS**

- 39,174 BTU/HR
- 375 CFM
- AMP DRAW HIGH - 10
- SPEED - 12 VOLT
- WEIGHT - 20 LB
- DIMENSIONS 9-3/4" H x 14-3/4" W x 9-1/2" D



INSTALLATION OF VARIABLE DISPLACEMENT PUMP

9-1. GENERAL

A. Check direction of rotation of pump to insure that it is correct for the application. Refer to Figure 1.

The direction of rotation can be determined by looking at the rear of the pump (opposite end from the shaft) where the pressure port and the suction port can be seen. The pressure port is stamped with the letter “B” and is the smaller of the two. On a right hand rotation pump, the pressure port is to the right when viewed from the rear. On a left hand rotation pump, it is to the left.

NOTE

A RIGHT HAND ROTATION PUMP IS ONE THAT MUST BE ROTATED CLOCKWISE WHEN VIEWED FROM THE SHAFT END. A LEFT HAND ROTATION PUMP IS ONE THAT MUST BE ROTATED COUNTER-CLOCKWISE WHEN VIEWED FROM THE SHAFT END.

B. Check direction of rotation of the PTO output shaft that will drive the pump.

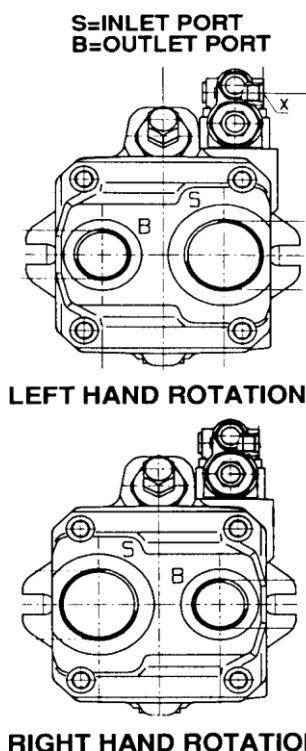


FIGURE 1. PUMP ROTATION

9-2. INSTALLATION AND HOSE CONNECTIONS

A. Install pump on vehicle so that one of the case drain ports “L” or “L1” is on top. See Figure 2.

B. Fill the pump case with hydraulic oil.

CAUTION

DO NOT RUN THIS PUMP WITHOUT OIL IN THE CASE OR SERIOUS MECHANICAL FAILURE WILL RESULT.

C. Connect case drain and pressure relief valve outlet to tank using T fitting and 1/2” I.D. minimum hose. Route this hose in such a manner that the oil in the hose must travel higher than the top of the pump before it is returned to the tank. This prevents the case from draining into the tank.

NOTE

THE MAXIMUM PERMISSIBLE CASE DRAIN PRESSURE IS 7 PSI (0.48 bar) HIGHER THAN THE PUMP INLET PRESSURE.

D. Install pump pressure and suction lines. A T fitting should be used on the pressure line to connect to the inlet of the pressure relief valve. The suction line should be connected to the same side of the tank as the suction strainer. Return lines must be connected back to the tank through the return filter.

CAUTION

DO NOT CONNECT PUMP INLET LINE THROUGH THE 25 MICRON RETURN FILTER, BECAUSE THIS WILL CAVITATE THE PUMP.

E. Connect the load sense line. See Figure 2.

F. Connect a 5000 PSI (345 bar) pressure gauge to check the pressure between the pump pressure port and the valvebank.

G. Check hydraulic oil level in the tank.

H. Check to insure that oil shut off valve, between the oil reservoir and the pump inlet, is open. Check that the oil shut off valve, between the oil return line and the reservoir, is also open.

9-3. PRELIMINARY PRESSURE ADJUSTMENT (BEFORE START-UP) A.

Remove the cap over the main pressure adjustment. See Figure 2.

B. Loosen the lock nut and turn the socket head set screw counter-clockwise to reduce the maximum pressure to its minimum. (Pumps are normally shipped with this pressure adjustment set to its minimum but should be checked.) See Figure 2.

NOTE

SETTING THE PUMP TO ITS MINIMUM PRESSURE IS DONE TO ALLOW THE PUMP TO BE STARTED AT MINIMUM PRESSURE AND TO INSURE PROPER LUBRICATION PRIOR TO BEING OPERATED UNDER LOAD.

C. Remove the cap over the stand-by pressure/flow control adjustment - smaller of the two caps located above the main pressure adjustment. See Figure 2.

D. Loosen the locknut and turn the socket head set screw all the way clockwise to its maximum adjustment.

9-4. PUMP STARTUP

A. Start pump slowly at first (truck low engine idle) and check for unusual noises and leaks.

B. Increase pump speed to its recommended operating speed.

C. Adjust to maximum pressure (2400 psi for lube systems.) With all valves of the valvebank in neutral and the pump dead headed, slowly turn the main pressure adjustment clockwise to increase the pressure to the specified amount (check the pressure on the gauge while doing so). Tighten the lock nut on the pressure adjusting screw and reinstall the cap.
See Figure 2.

D. Once the maximum pressure has been set (C above) the stand-by pressure needs to be decreased to approximately 600 PSI. To accomplish this, turn the stand-by pressure/flow control adjustment counter-clockwise until the pressure gauge reading decreases to 600 PSI. Tighten the locknut and reinstall the cap.

E. Make a final pressure check to insure that the maximum and stand-by pressure settings are correct.

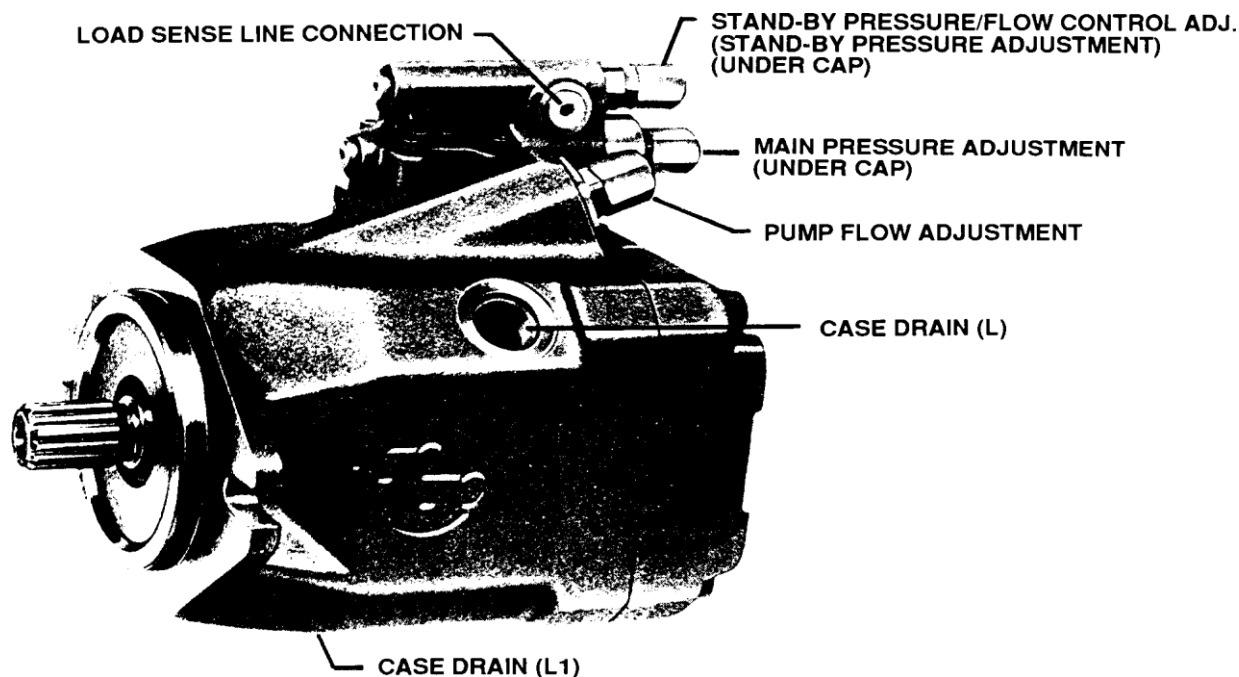


FIGURE 2. PORTS AND ADJUSTMENTS

9-5. EXISTING INSTALLATION PRESSURE CHECK AND ADJUSTMENT

- A. Install a pressure gauge on the pump pressure line.
- B. To adjust maximum pump pressure, open one or more valves and read the maximum pump pressure. To increase the pressure, turn the main pressure adjustment clockwise. To decrease, turn it counter- clockwise.
- C. To adjust the stand-by pressure, return all valves to neutral and read the pressure gauge. To increase or decrease this pressure, turn the stand-by pressure/ flow control clockwise (to increase) or counter- clockwise (to decrease). See Figure 2.

9-6. FLOW OUTPUT ADJUSTMENT

- A. Some pumps are equipped with a mechanical

flow limiter. See Figure 3.

- B. To decrease pump flow, remove the cap, loosen the locknut and turn the adjusting screw clockwise. To increase flow, turn the adjusting screw counter-clockwise.

NOTE

BY TURNING THE ADJUSTING SCREW CLOCKWISE, THE SWASHPLATE ANGLE AND THE PUMP DISPLACEMENT ARE DECREASED.

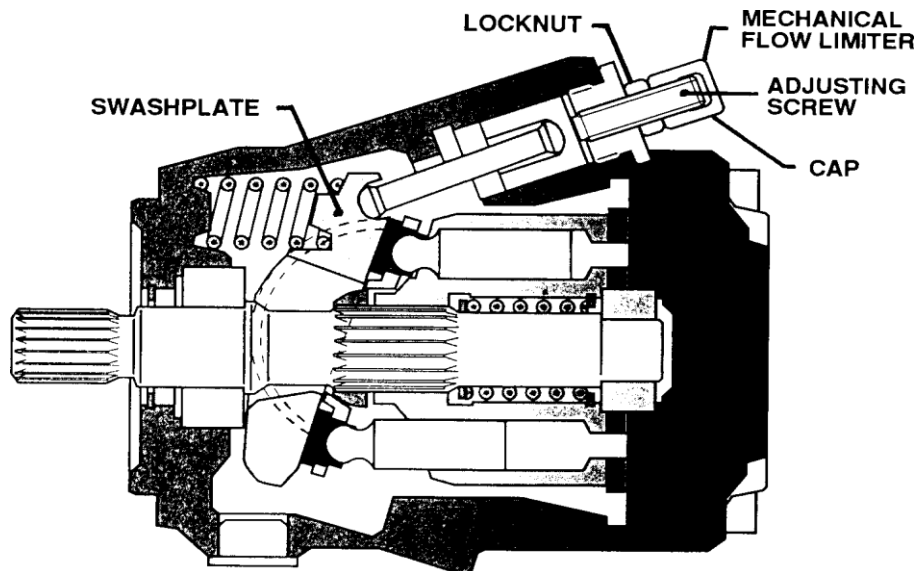


FIGURE 3. MECHANICAL FLOW LIMITER