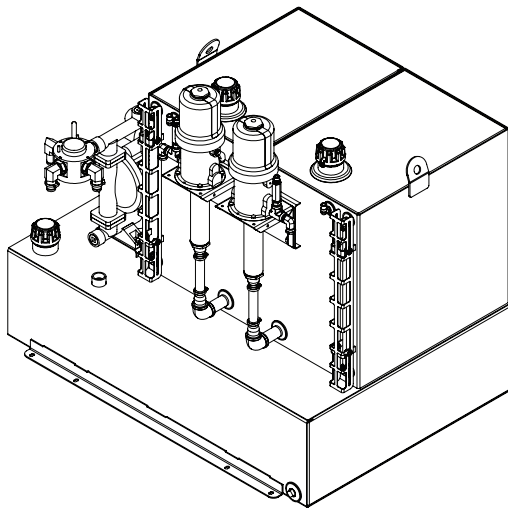


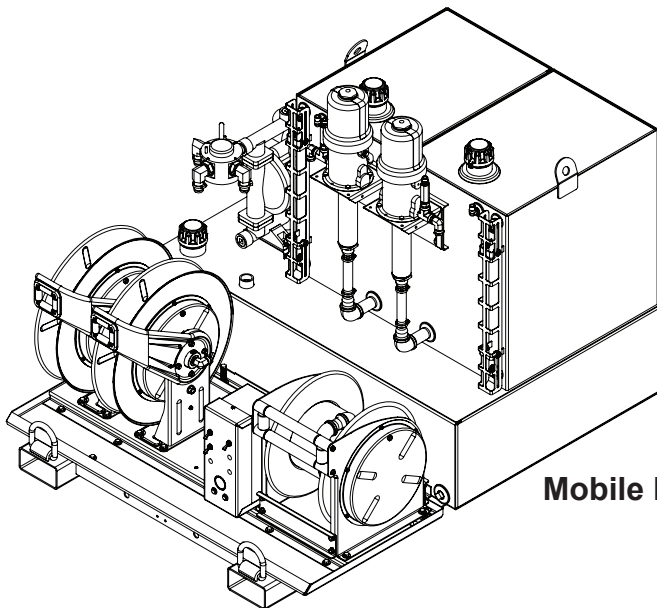
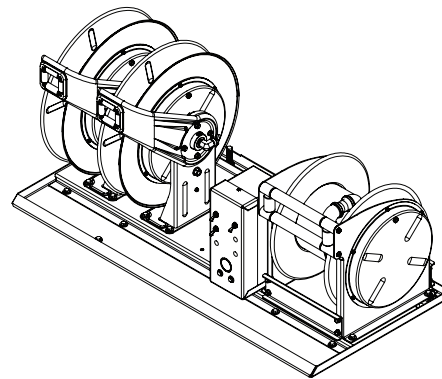


# Lube System Owner's Manual Mobile, Permanent & Poly Tank

Specifications • Installation • Safety • Operation



**Permanent Mount**



**Mobile Mount**

**Stellar Industries, Inc.**

**190 State Street**

**PO Box 169**

**Garner, IA 50438**

**800-321-3741**

**Fax: 641-923-2811**

**[www.stellarindustries.com](http://www.stellarindustries.com)**

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REV 1.1  
PN 121984

# Serial Tag Location / P65 Warning / Notice

## **WARNING**

Operating, maintaining, and servicing a Stellar product may expose you to chemicals including, but not limited to, engine exhaust, carbon monoxide, phthalates, and lead. These chemicals are known to the State of California to cause cancer and birth defects (or other reproductive harm). To keep your exposure to a minimum, be sure to avoid breathing exhaust and service your Stellar product in a well-ventilated area while wearing gloves or washing your hands frequently. For more information, go to [www.P65Warnings.ca.gov/passenger-vehicle](http://www.P65Warnings.ca.gov/passenger-vehicle).



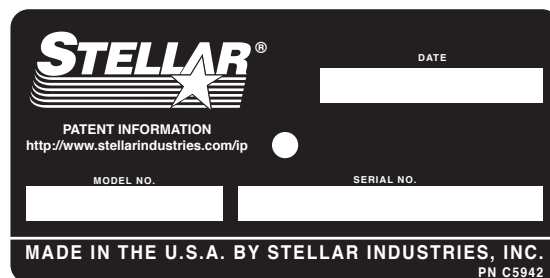
## **NOTICE**

### ***Cold Weather Performance***

Although clear data on cold weather performance from every steel manufacturer is not available for all types and thicknesses of steel, Stellar Industries is confident that the weldments on our products will operate to 100% of their intended purpose to temperatures down to -40° F / C.

It is recommended if Stellar manufactured equipment needs to be used in temperatures below -40° F / C, the operator should pull the unit into a climate-controlled area and allow the weldments to warm up to and then maintain a temperature above this level.

### **SERIAL TAG**



**For Technical Questions, Information, Parts, or Warranty, Call Toll-Free at**

**800-321-3741**

Hours: Monday - Friday, 8:00 a.m. - 5:00 p.m. CST

Or email at the following addresses:

**Technical Questions, and Information**

[service@stellarindustries.com](mailto:service@stellarindustries.com)

**Order Parts**

[parts@stellarindustries.com](mailto:parts@stellarindustries.com)

**Warranty Information**

[warranty@stellarindustries.com](mailto:warranty@stellarindustries.com)

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# Introduction

Stellar® LubeMate® lube systems are designed to provide safe and dependable service. With proper use and maintenance, this lube system will operate at peak performance for many years.

To promote this longevity, carefully study the information contained in this manual before putting the equipment into service. Though it is not intended to be a training manual for beginners, this manual should provide solid guidelines for the safe and proper usage of the lube system.

Once you feel comfortable with the material contained in this manual, strive to exercise your knowledge as you safely operate and maintain the lube system. This process is vital to the proper use of the unit.

## A few notes on this manual:

A copy of this manual is provided with every lube system. Place it box mounted on the inside of the curb side channel near the front of the trailer. A copy of this manual shall remain with the trailer at all times.

Throughout the manual, three signal words will be used to bring attention to important items:

### **NOTICE**

A NOTICE signal word indicates a practice not related to physical injury.

### **⚠ WARNING**

A WARNING signal word indicates a hazardous situation which, if not avoided, could result in death or serious injury.

### **⚠ DANGER**

A DANGER signal word indicates a hazardous situation which, if not avoided, will result in death or serious injury.

Information contained within this manual does not cover all maintenance, operating, or repair instructions pertinent to all possible situations. Please be aware that some sections of this manual contain information pertaining to Stellar® manufactured lube systems in general and may or may not apply to your specific model.

This manual is not binding. Stellar Industries, Inc. reserves the right to change, at any time, any or all of the items, components, and parts deemed necessary for product improvement or commercial/production purposes. This right is kept with no requirement or obligation for immediate mandatory updating of this manual.

If more information is required or technical assistance is needed, or if you feel that any part of this manual is unclear or incorrect, please contact the Stellar Customer Service Department by phone at 800-321-3741 or email at [service@stellarindustries.com](mailto:service@stellarindustries.com).

# Chapter 1 - Specifications

## Chapter Contents

Operator Requirements.....	2
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# General Operation

Safety should be the number one thought on every operator's mind. Three factors should exist for safe operation: a qualified operator, well-maintained equipment, and the proper use of this equipment.

This chapter contains information regarding the safety and operation of the LubeMate® lube system and should be read and understood completely by everyone working with or near the system before putting the unit into operation.

**⚠ WARNING** Failure to follow operating, maintenance, or safety instructions can result in death or serious injury.

It is the responsibility of the owner to instruct the operator in the safe usage of the equipment, as well as providing them with properly maintained equipment.

**⚠ WARNING** LubeMate® lube system operators must conform to the qualifications specified in this manual. Trainees or untrained persons shall be under the direct supervision of qualified persons.

**⚠ WARNING** Do NOT use system pumps to pump any fluids other than products intended for use in the LubeMate® lube system. Never pump fuel or gasoline.

Operators shall consult with the owner of the equipment regarding current safety regulations and required personal protective equipment.

Operators should never operate the lube system while under the adverse influence of alcohol, drugs, or medication.

Please take note that Stellar Industries, Inc. is not liable for accidents incurred by the lube system because of non-fulfillment from the operator's side of current rules, laws, and regulations.

## Operator Requirements

### Operation is limited to the following people:

1. Qualified individual.
2. Trainees under direct supervision of the qualified individual.
3. Test or maintenance individual.
4. Lube system Inspector.

### Qualified individuals must:

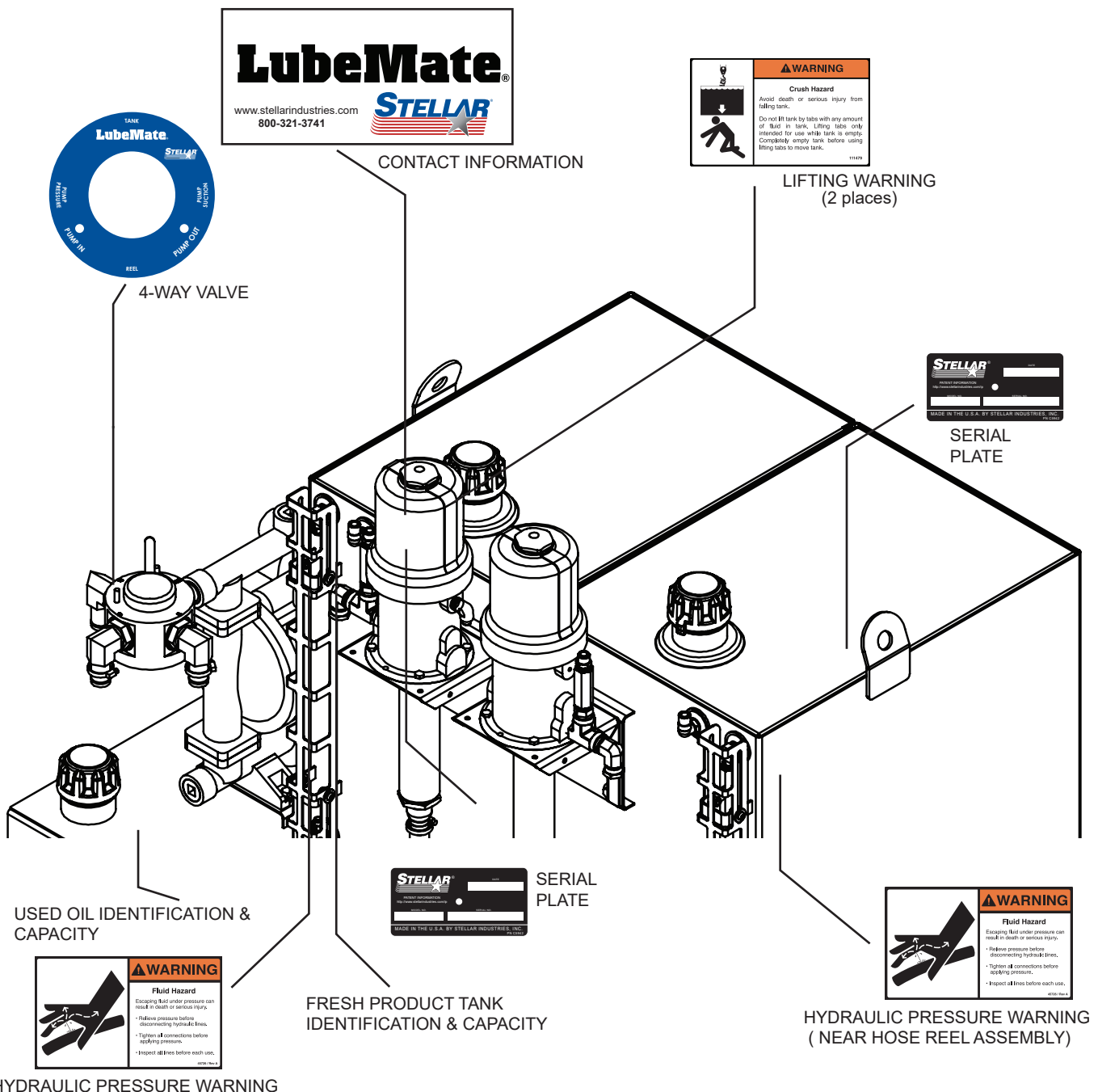
1. Demonstrate the ability to understand all decals, the owner's manual, and any other information required for safe operation of the lube system.
2. Demonstrate the ability to safely control the lube system.
3. Know all pertinent safety regulations.
4. Be responsible for maintenance requirements.
5. Understand and be fully capable of implementing all emergency procedures.
6. Understand all operating procedures as outlined by this manual.

## Pre-Operation Inspection

Before operating the equipment, make sure all regular maintenance has been performed. Each day, inspect the lube skid or lube trailer for all of the following:

- All safety covers for proper installation.
- Equipment for missing, illegible, or defaced operating decals and safety signs (monthly).
- Structural weldments for bends, cracks, or breaks (monthly).
- Hoses, valves, and connections.
- Connections for leaks.
- Presence of this owner's manual.
- Replace/repair as necessary prior to operation.

## Decal Placement (V160 Perm Mt shown as example)



# Operating LubeMate® Lube System

## Suggested PPE While Operating Lube Transfer System

### VISIBILITY



### HEAD



### EYES



### HANDS



### EARS



## New Product (Engine Oil, Antifreeze, Hydraulic Oil, Grease etc.) Tank Operation

1. Fill tanks with the proper fluid for lubricating or cooling. Refer to machine's service manual for proper fluid selection.
2. Unreel the hose of the product you want to dispense far enough to reach the fill location and place the nozzle tip in the fill neck or hole.
3. Activate air supply.

### NOTICE

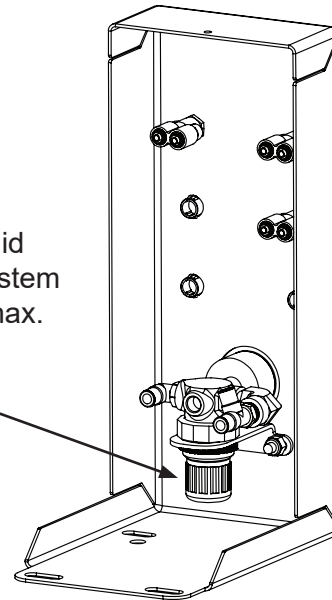
Each new product tank is connected to a centrifugal pump that is powered by an air compressor. Completely read the operation manual from the air compressor manufacturer before operating the air system.

### ⚠ WARNING

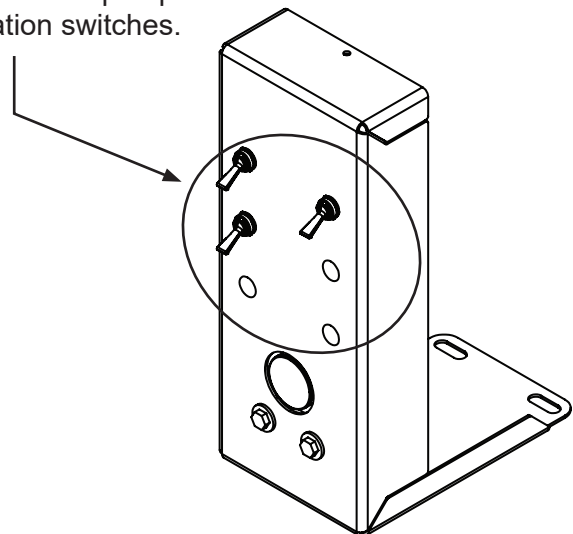
Do NOT exceed 120 psi air pressure for fluid transfer.

4. To activate the pump of any given tank, flip the switch for the appropriate tank and reel.
5. Reset the nozzle flow meter.
6. Press the trigger to begin flow. Nozzle may need to be adjusted for desired flow.
7. Release the trigger when desired amount has been dispensed and turn off the pump with the switch for that tank.
8. Retract the hose onto the reel.
9. Deactivate air supply and relieve air pressure from system.

Regulate fluid pump air system to 120 psi max.



Product tank pump activation switches.





## Waste Oil System Operation

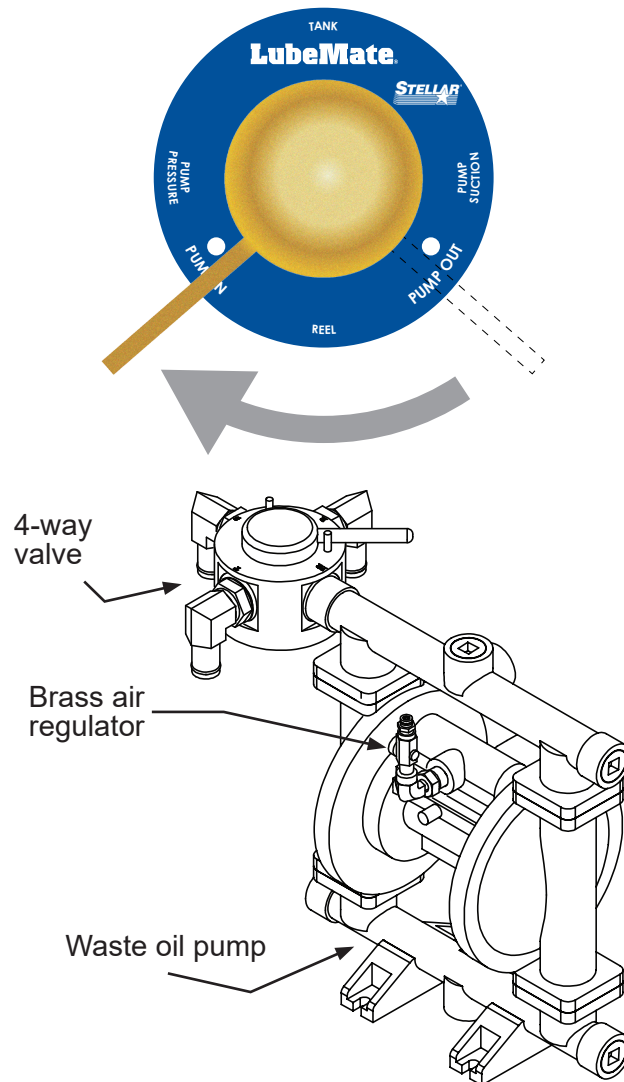
### Transferring Waste Oil From Machine to Waste Oil Tank

1. Unreel enough hose from the Waste Oil reel to reach the machine.
2. Connect the quick coupler to the drain pan under the unit. If your machine has the correct drain plug, you can connect the coupler directly to the drain plug.
3. Rotate the handle of the brass valve all the way to "PUMP IN" position.
4. Activate air supply.
5. Flip switch labeled "Waste Oil" to ON position.
6. Adjust pump speed with the brass air regulator on the inlet of the pump. Maintain an air pressure that maximizes pump speed without causing pump cavitation.

#### IMPORTANT

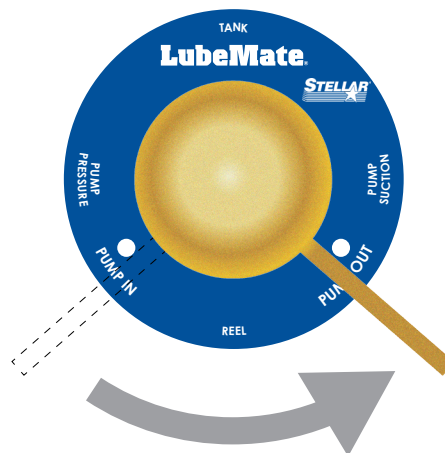
The brass air regulator located on the air inlet is to control the pump speed only. Do not use this as the sole regulator for this pump. Air pressure must be regulated to 120 psi with the gauged regulator on the control panel.

7. When finished, turn off pump switch.
8. Disconnect hose and roll it back onto the hose reel.
9. Deactivate air supply and relieve air pressure from system.



### Transferring Waste Oil From Waste Oil Tank to Disposal Container

1. Unreel enough hose from the Waste Oil reel to reach the disposal container.
2. Install the stub hose piece with the male quick coupler to the waste oil hose.
3. Activate air supply.
4. Secure the end of the waste oil hose before flipping switch labeled "Waste Oil" to ON position.
5. When finished, turn off pump switch.
6. Disconnect stub hose piece and roll hose back onto the hose reel.
7. Deactivate air supply and relieve air pressure from system.



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# Chapter 2 - Installation

## Chapter Contents

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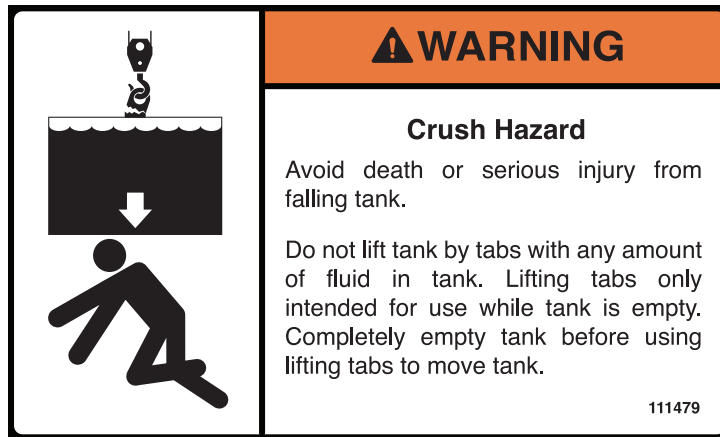
# General Installation

This chapter is designed to serve as a general guide for the installation of a LubeMate® lube system - permanent or mobile. Each installation is considered unique so certain portions of this chapter may or may not apply to your direct application. If a question should arise during the installation process, please contact Stellar Customer Service at (800) 321 3741.

It is the installer's responsibility to assure that the lube system is mounted on a platform that will support the maximum crane rating of this crane.

**⚠ WARNING** Do not install this lube system on a body not capable of supporting or safely handling the extra weight as braking and handling performance may be affected. Failure to do so may result in serious injury or death.

**⚠ WARNING** Do not lift lube system by tabs with any amount of fluid in tank. Lifting tabs only intended for use while tanks are empty. Completely empty tanks before using lifting tabs to move.



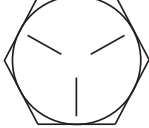
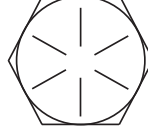
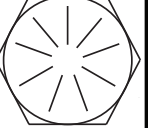
## Installer Notice

According to Federal Law (49 cfr part 571), each final-stage manufacturer shall complete the vehicle in such a manner that it conforms to the standards in effect on the date of manufacture of the incomplete vehicle, the date of final completion, or a date between those two dates. This requirement shall, however, be superseded by any conflicting provisions of a standard that applies by its terms to vehicles manufactured in two or more stages.

Therefore, the installer of a permanent LubeMate® skid is considered one of the manufacturers of the vehicle. As such a manufacturer, the installer is responsible for compliance with all applicable federal and state regulations. They are required to certify that the vehicle is in compliance with the Federal Motor Vehicle Safety Standards and other regulations issued under the National Traffic and Motor Vehicle Safety Act.

Please reference the Code of Federal Regulations, title 49 - Transportation, Volume 5 (400-999), for further information, or visit <http://www.gpoaccess.gov/nara/index.html> for the full text of Code of Federal Regulations.

# Torque Data Chart

		GRADE 5		GRADE 8		GRADE 9
						
Size (DIA-TPI)	Bolt DIA (Inches)	Plain (Ft-Lb)	Plated (Ft-Lb)	Plain (Ft-Lb)	Plated (Ft-Lb)	Plated (Ft-Lb)
5/16-18	0.3125	17	13	25	18	22
3/8-16	0.3750	31	23	44	33	39
7/16-14	0.4375	49	37	70	52	63
1/2-13	0.5000	75	57	105	80	96
9/16-12	0.5625	110	82	155	115	139
5/8-11	0.6250	150	115	220	160	192
3/4-10	0.7500	265	200	375	280	340
7/8-9	0.8750	395	295	605	455	549
1-8	1.000	590	445	910	680	823
1 1/8-7	1.1250	795	595	1290	965	1167
1 1/4-7	1.2500	1120	840	1815	1360	1646
1 3/8-6	1.3750	1470	1100	2380	1780	2158
1 1/2-6	1.500	1950	1460	3160	2370	2865

*When using the torque data in the chart, the following rules should be observed:*

- Bolt manufacturer's particular specifications should be consulted when provided.
- Flat washers of equal strength must be used.
- All torque measurements are given in foot-pounds. To convert to inch-pounds, multiply by 12.
- 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.
- Torque values for socket-head capscrews are the same as for Grade 8 capscrews.

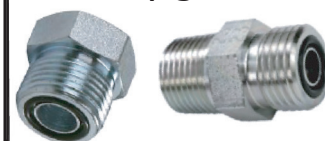
# Fittings

## Flat Face O-Ring Seal - FFORX

### HOSE FITTING ONLY



FS



SIZE	THREAD SIZE	
-4	9/16-18 UNF	21
-5	5/8-18 UNF	25
-6	11/16-16 UN	40
-8	13/16-16 UN	46
-10	1-14 UNS	50
-12	1-3/16-12 UN	75
-16	1-7/16-12 UN	104
-20	1-11/16-12 UN	141
-24	2-12 UN	166
-32	2-1/2-12 UN	423

## SAE 37° JIC

### HOSE FITTING & FEMALE SWIVEL FITTINGS



JIC



SIZE	THREAD SIZE	LB-FT TORQUE
-2	5/16-24 UNF	7
-3	3/8-24UNF	9
-4	9/16-18 UNF	13
-5	5/8-18 UNF	16
-6	11/16-16 UN	20
-8	13/16-16 UN	41
-10	1-14 UNS	64
-12	1-3/16-12 UN	89
-16	1-7/16-12 UN	122
-20	1-11/16-12 UN	143
-24	2-12 UN	178
-32	2-1/2-12 UN	275

## Fittings - Continued

### O-Ring Boss

#### HYDRAULIC FITTING ONLY



-SIZE	THREAD SIZE	ORB	AORB
-4	7/16-20 UNF	15	23
-6	9/16-18 UNF	24	32
-8	3/4-16 UNF	40	55
-10	7/8-14 UNF	61	76
-12	1-1/16-12 UN	101	116
-16	1-5/16-12 UN	120	119
-20	1-5/8-12 UN	125	125
-24	1-7/8-12 UN	140	140
-32	2-1/2-12 UN	157	157

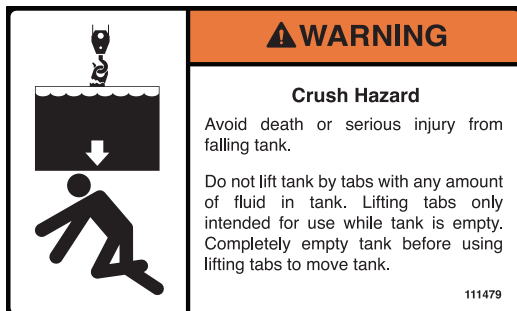
### Face Seal Female Swivel Fittings

#### HYDRAULIC FITTING ONLY



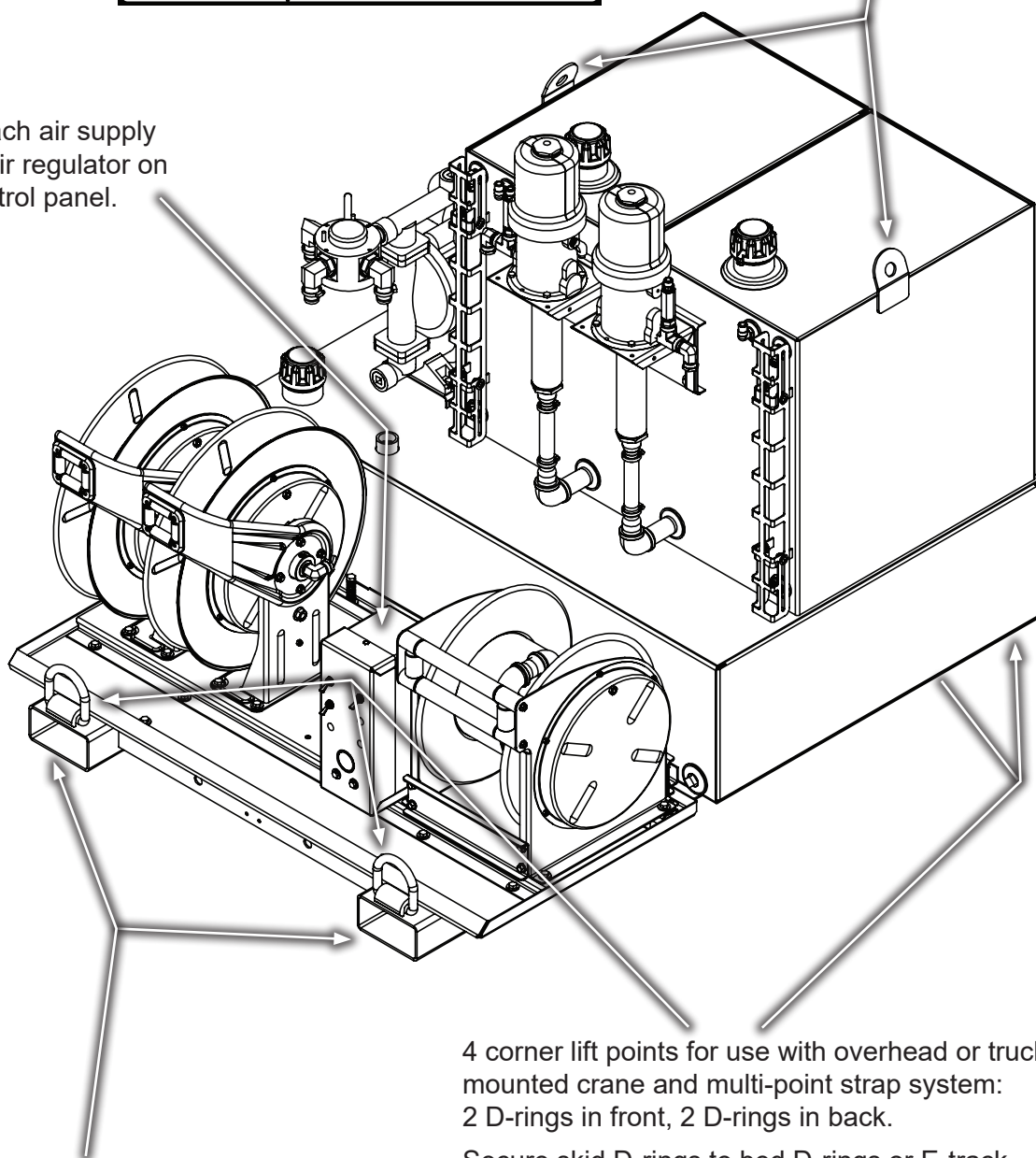
-SIZE	THREAD SIZE	LB-FT TORQUE
-4	9/16-18 UNF	13
-6	11/16-16 UN	23
-8	13/16-16 UN	40
-10	1-14 UNS	61
-12	1-3/16-12 UN	86
-16	1-7/16-12 UN	119
-20	1-11/16-12 UN	125
-24	2-12 UN	140

# Installing Mobile Lube Skid



Make sure system is completely empty before lifting with tank tabs.

Attach air supply to air regulator on control panel.

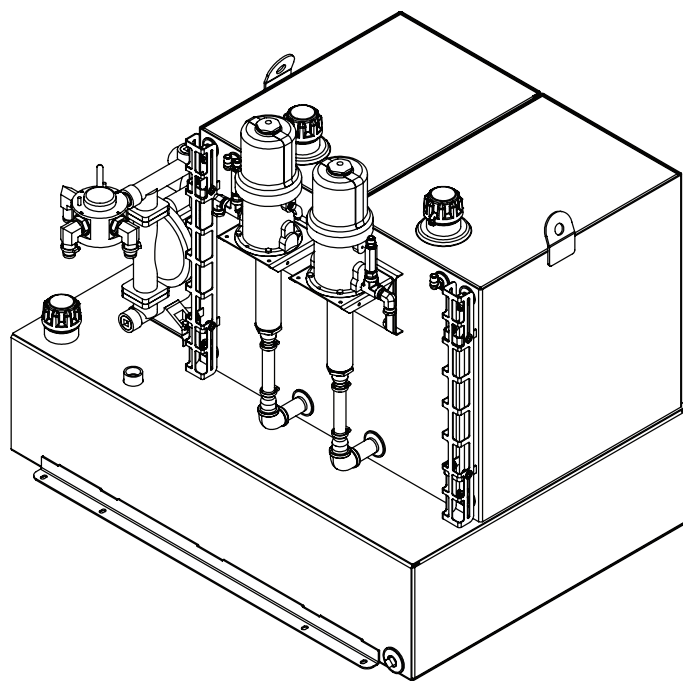


Fork channels for use with fork truck to lift into bed.



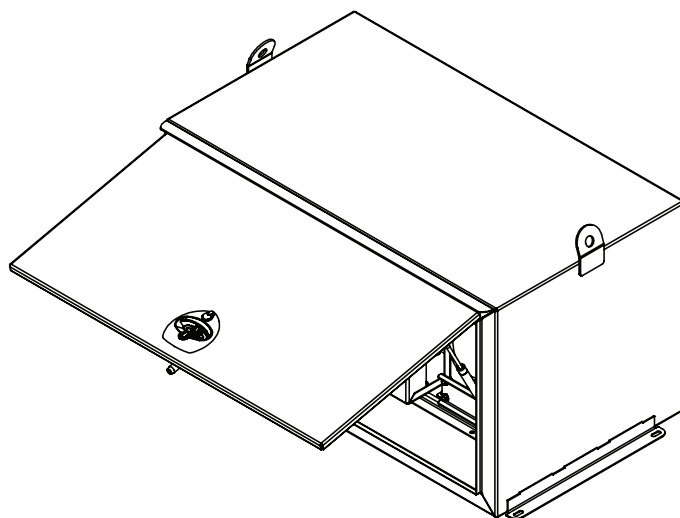
## Installing Permanent Lube Assembly

To accommodate all the various options and mounting possibilities of all the additional components, it is recommended you refer to your local Stellar Distributor for installation assistance with your permanent lube system.



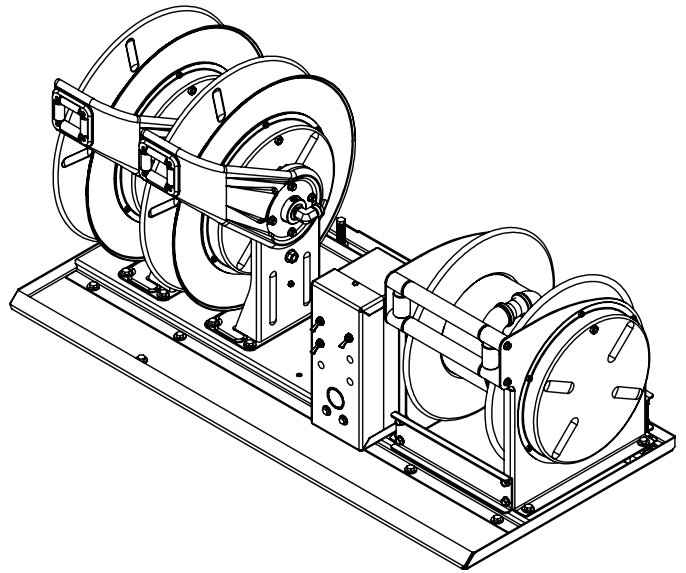
## Installing Hose Reel Cabinet

To accommodate all the various mounting locations of your hose reel cabinet and all of the additional components, it is recommended you refer to your local Stellar Distributor for installation assistance with your lube system reel cabinet.



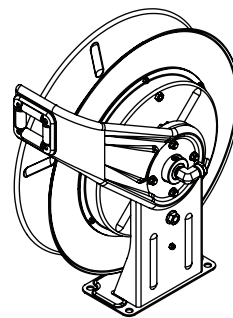
## Installing Hose Reel Drip Pan

To accommodate all the various mounting locations of your hose reel drip pan assembly and all of the additional components, it is recommended you refer to your local Stellar Distributor for installation assistance with your lube system drip pan assembly.

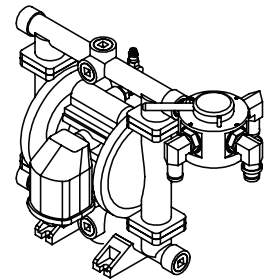


## Installing Loose Reels, Waste Pump, and Control Panel

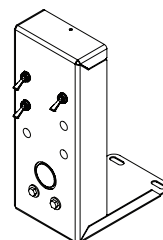
To accommodate all the various combinations of reels and other loose equipment, as well as numerous mounting locations, it is recommended you refer to your local Stellar Distributor for installation assistance with your lube system dispensing/recovery equipment.



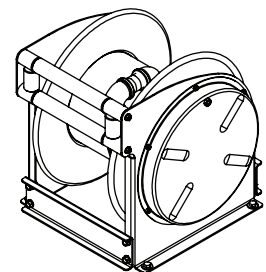
hose reel



waste pump



control panel



waste hose reel

# Chapter 3 - Lube System Maintenance

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## Cold Weather Use

If your LubeMate® lube system will be exposed to frequent cold weather use, consider contacting Stellar customer support at **800-321-3741** and order an optional tank heater kit (P/N 95751) for your lube system tank.

Maintenance is an important part of extending the life of any LubeMate® lube system. Performing key maintenance items on a scheduled program will prevent unnecessary downtime.

## General Maintenance Guidelines

Before performing any maintenance to the lube system, consider the following:

- **⚠ WARNING** Only qualified service personnel are to perform maintenance on the lube system. Never modify or alter any of the equipment, whether mechanical, electrical, or hydraulic, without explicit approval from Stellar® Industries.
- Disconnect system from air supply and relieve pressure from unit before performing any service or repair.
- Place all controls in the off position and secure operating features from inadvertent motion. Follow all company directed lockout/tagout procedures.
- Before performing any maintenance on electrical components, disconnect the power source.
- Allow systems to cool before performing any maintenance.
- Replace parts with Stellar approved parts only.
- Keep the lube system tank area clean and free from grease build-up, oil and dirt.
- Label or tag parts when disassembling.
- After relieving air pressure from lube system, repair or have repaired any components found to be inadequate.

## Lube System Inspection and Maintenance Schedule

MAINTENANCE ITEM	ACTION	NOTE	INTERVAL
LIFT POINTS ON MOBILE SKID	INSPECT	IF CRACKED OR DAMAGED, REPAIR AS NECESSARY	MONTHLY
STRUCTURAL WELDMENTS	INSPECT	CHECK FOR BENDS, CRACKS, OR BREAKS	MONTHLY
DECALS	INSPECT	INSPECT ALL DECALS ATTACHED TO THE TRAILER TO ENSURE THEY ARE ALL STILL LEGIBLE. REPLACE AS NEEDED.	MONTHLY
DIRT & DEBRIS	WASH	WASH THE LUBE SYSTEM TO PREVENT DAMAGE FROM ANY TYPE OF CORROSIVE SUBSTANCES COLLECTED FROM ROADS OR JOB SITES OR INADVERTENTLY LEAKED PRODUCT.	WEEKLY

**NOTE:** Perform maintenance procedures on air compressor, product pumps, and hose reels according to each manufacturer's instructions supplied with this lube skid.

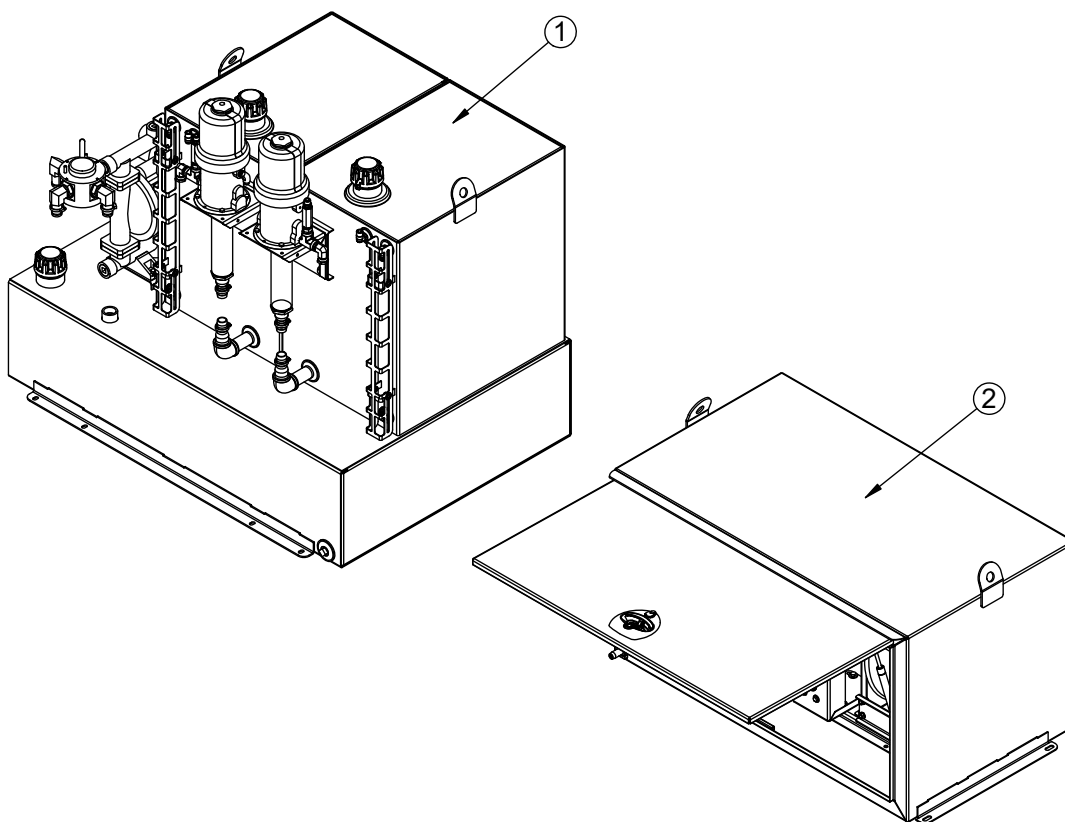
# Chapter 4 - Assembly Drawings

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## V160/Pumps/Reels/Cabinet - 110476

- ☒ Permanent Mount Assembly  
☐ Mobile Mount Assembly



# V160/Pumps/Reels/Cabinet - 110476 Parts List

## PN 110476

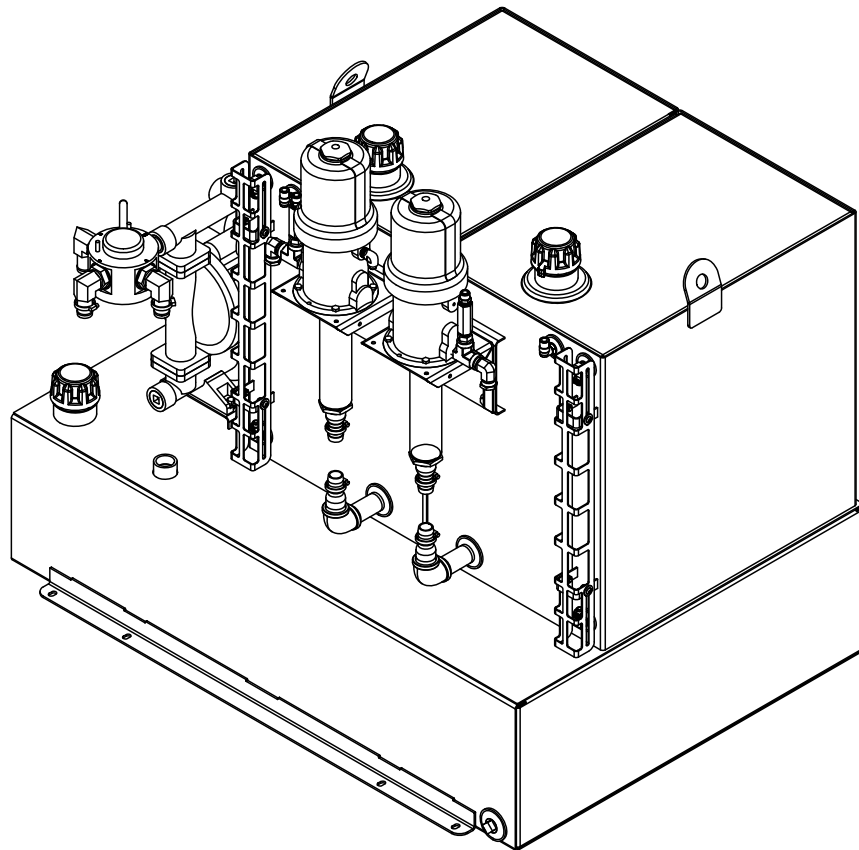
ITEM	PART	DESCRIPTION	QTY
1	110729	TANK ASM LM160 5:1	1
2	112861	CABINET ASM 42R 2N/1W	1
REV. A			

## ITEMS NOT SHOWN

PART	DESCRIPTION	QTY
110877	HARDWARE KIT PALLET TANK MNT	1
110881	MAT 0.19 TIREPLAST 4X50 ROLL (RM)	13
95746	METER MECH QT FLX GRACO	2
110798	HOSE 1.00(300PSI)-16MP-180CL	1
C4659	HOSE CLAMP #16 SS	1
110797	HOSE 0.50(3000PSI)-8MP-8MP-180CL	2
110794	MTG KIT LUBE SKID 4 SPRING	1
110795	MTG ANGLE KIT LUBE SKID	1
110888	DRAIN PAN ASM 7.50 GAL 1.00	1
97297	STUB WASTE OIL 1.00 W/QUICK CPLR	1
C6244	TUBING NYLON AIR BRAKE 0.25	65
76975	FTG 4-4 MP-PTC STRAIGHT BRASS	1
103502	FTG 16-16 MP-FP STREET ELBOW 90 GALV	1
52529	FTG 8-8 MP-FPS 90	2

# Permanent Asm V160 w/Separate Reels - 96544

- ☒ Permanent Mount Assembly
- ☐ Mobile Mount Assembly





# Permanent Asm V160 w/Separate Reels - 96544 Parts

## PN 96544

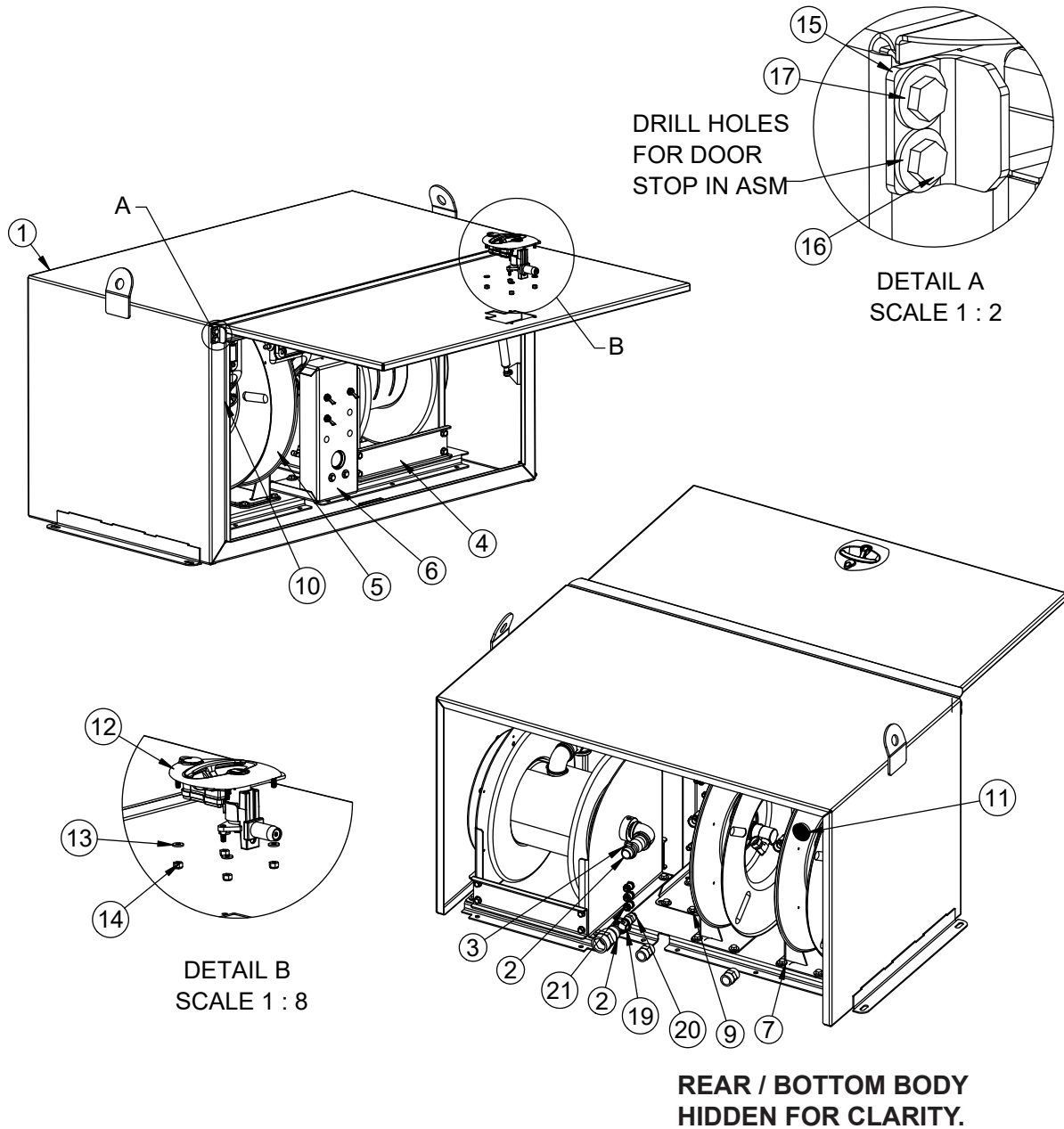
ITEM	PART	DESCRIPTION	QTY
1	110729	TANK ASM LM160 5:1	1

## ITEMS NOT SHOWN

PART	DESCRIPTION	QTY
110877	HARDWARE KIT PALLET TANK MNT	1
110881	MAT 0.19 TIREPLAST 4X50 ROLL (RM)	12
95734	HOSE REEL ASM 1 X 25 SALV REELCRAFT	1
95738	HOSE REEL ASM 1/2 X 50 OIL REELCRAFT	2
95746	METER MECH QT FLX GRACO	2
110798	HOSE 1.00(300PSI)-16MP-180CL	1
C4659	HOSE CLAMP #16 SS	1
110797	HOSE 0.50(3000PSI)-8MP-8MP-180CL	2
110794	MTG KIT LUBE SKID 4 SPRING	1
110795	MTG ANGLE KIT LUBE SKID	1
110888	DRAIN PAN ASM 7.50 GAL 1.00	1
97297	STUB WASTE OIL 1.00 W/QUICK CPLR	1
95934	CONTROL PANEL PNEUMATIC 3 TOGGLE	1
102186	CONTROL PANEL 7 SWITCH BACK PANEL 18GA	1
107495	SCREW HEX HEAD 0.25X1.00 SELF TAPPING #3 DRILL TIP	1
C6244	TUBING NYLON AIR BRAKE 0.25	65
76975	FTG 4-4 MP-PTC STRAIGHT BRASS	1

# Cabinet Assembly 42R 2N/1W - 112861

- ☒ Permanent Mount Assembly  
☐ Mobile Mount Assembly



# Cabinet Assembly 42R 2N/1W - 112861 Parts List

## PN 112861

ITEM	PART	DESCRIPTION	QTY
1	100275	REELCAB WLDMT 42.00X23.00X24.00 2R-1R	1
2	103499	FTG 16-16 MP-HB INSERT ADAPTER	2
3	C4659	HOSE CLAMP #16 SS	2
4	95734	HOSE REEL ASM 1 X 25 SALV REELCRAFT CSD14000-OVP BLACK	1
5	95738	HOSE REEL ASM 1/2 X 50 OIL REELCRAFT 7850-OMP BLACK	2
6	95934	CONTROL PANEL PNEUMATIC 3 TOGGLE	1
7	111174	HARDWARE KIT REEL MNT	2
8	111174	HARDWARE KIT REEL MNT	1
9	111173	HARDWARE KIT CONTROL PANEL MNT	1
10	107123	GAS SPRING 12.09-7.84 65# FORCE	2
11	107122	1.50" ALUM. LOUVER VENT	1
12	102594	LATCH VECTOR 3PT	1
13	D0178	WASHER #10 SAE FLAT	4
14	26034	NUT #10-24 HH NYLOC	4
15	109283	ANGLE 1.50X1.00X1.00 CUSTOM 10GA	1
16	0480	CAP SCR 0.25-20X1.00 HHGR5	2
17	0340	WASHER 0.25 USS FLAT	4
18	0333	NUT 0.25-20 HHGR5 NYLOC	2
19	95704	FTG 4-6 PTC-MP 90	1
20	102048	FTG 4-6 PTC-MP STRAIGHT	1
21	102136	FTG 4-4 PTC-PTC BULKHEAD UNION	3

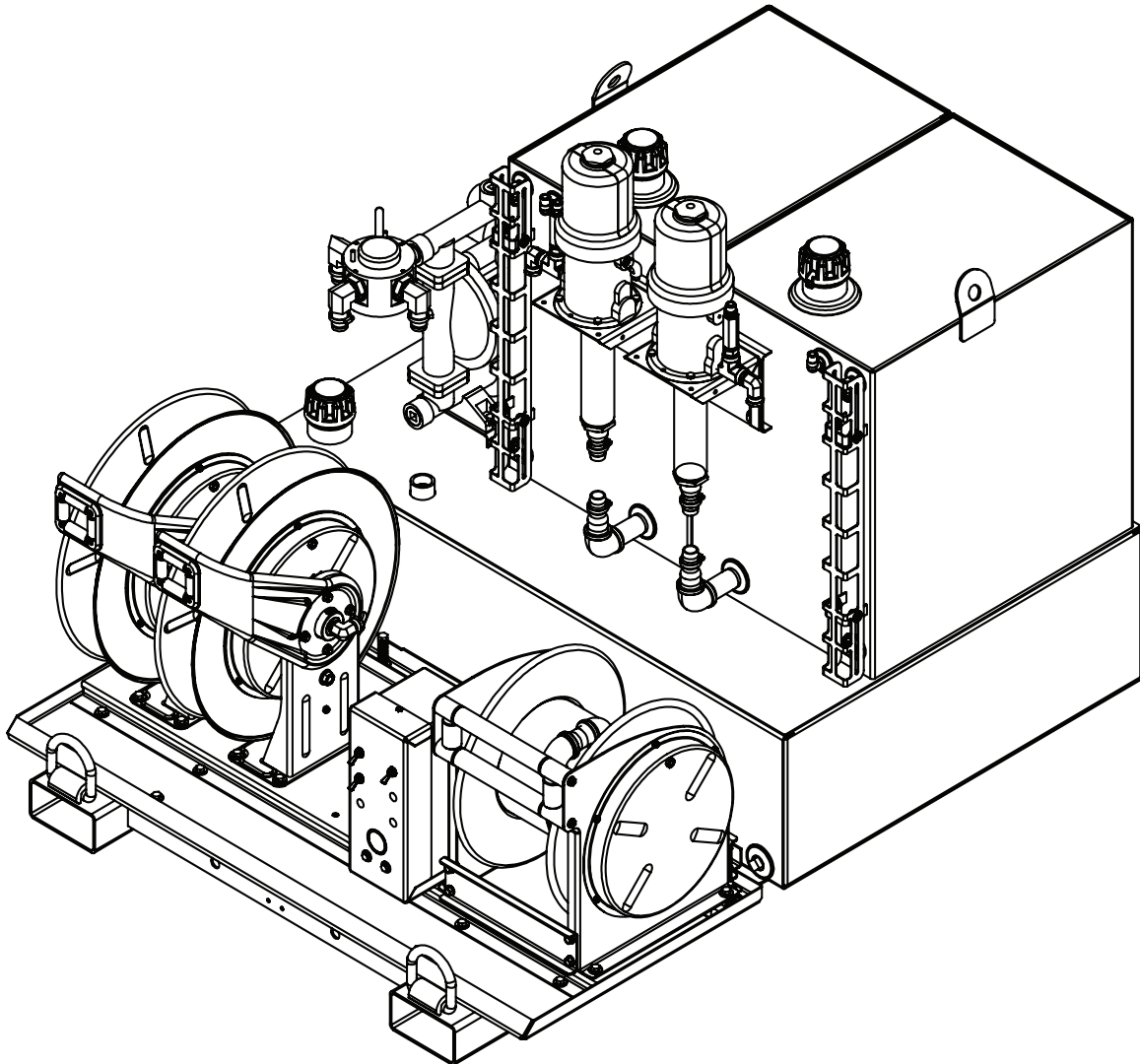
REV. B

## ITEMS NOT SHOWN

PART	DESCRIPTION	QTY
123598	WEATHERSTRIP CLIP ON 0.05-0.13X1.38 75001820	12.17
123596	HOSE 0.50(3000PSI)-8MP-8MP-14CL	2
D1449	HOSE SUCT 1.00(RM) 100R4 BRD	0.75
C6244	TUBING NYLON AIR BRAKE 0.25	4

# Mobile Assembly V160 - 96653

- ☐ Permanent Mount Assembly
- ☒ Mobile Mount Assembly



# Mobile Assembly V160 - 96653 Parts List

## PN 96653

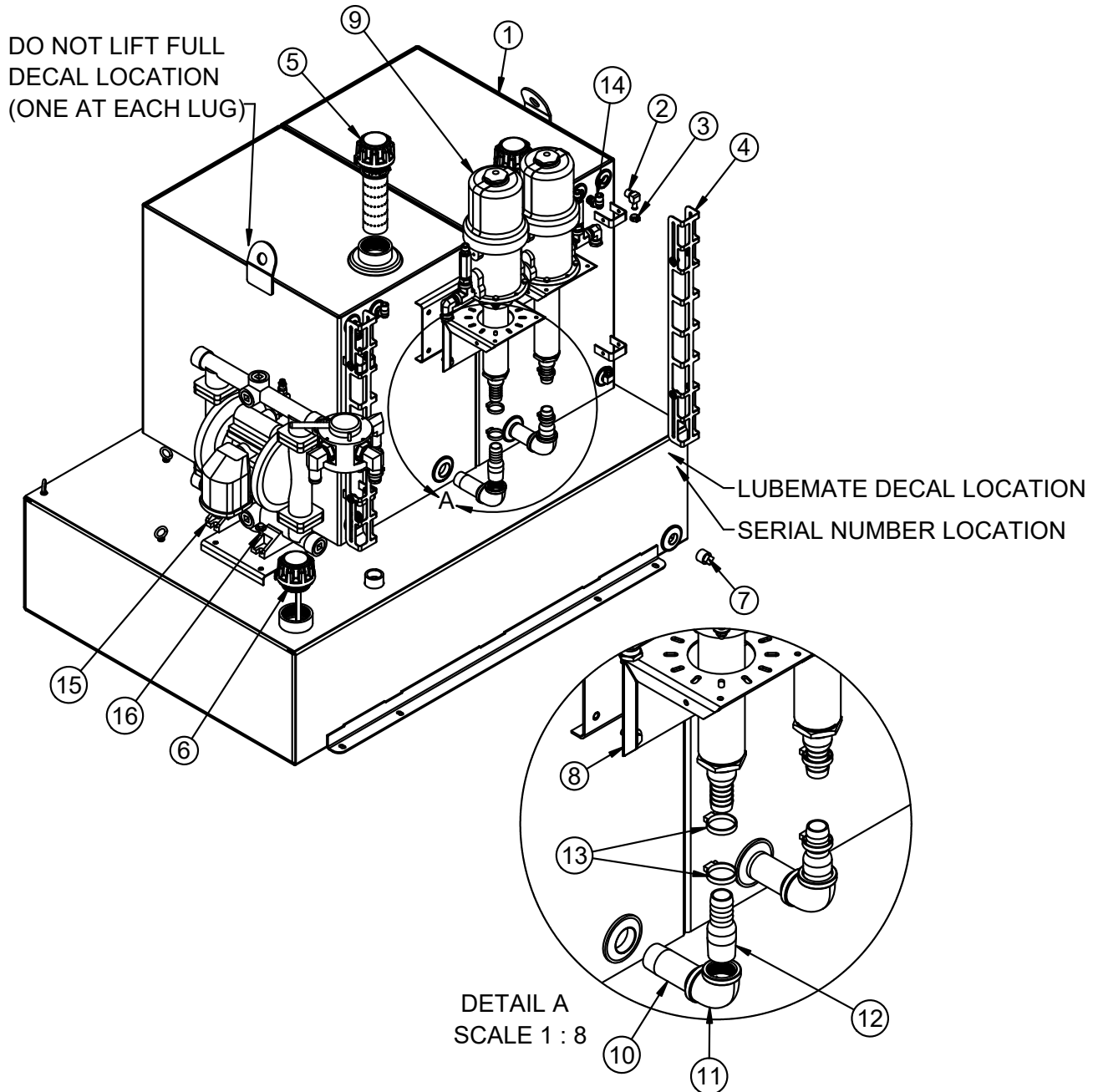
ITEM	PART	DESCRIPTION	QTY
1	111172	SKID ASM V160M 5:1	1

## ITEMS NOT SHOWN

PART	DESCRIPTION	QTY
110877	HARDWARE KIT PALLET TANK MNT	1
95746	METER MECH QT FLX GRACO	2
110888	DRAIN PAN ASM 7.50 GAL 1.00	1
97297	STUB WASTE OIL 1.00 W/QUICK CPLR	1
C6244	TUBING NYLON AIR BRAKE 0.25	15
76975	FTG 4-4 MP-PTC STRAIGHT BRASS	1
17215	TIEDOWN RATCHET STRAP 3000LB WLL	2

# Tank Assembly V160 - 110729

- ☒ Permanent Mount Assembly
- ☒ Mobile Mount Assembly



# Tank Assembly V160 - 110729 Parts List

## PN 110722

ITEM	PART	DESCRIPTION	QTY
1	100351	TANK WLDMT LM160 STD	1
2	102005	FTG 6-6 HB-MP 90 BRASS	4
3	110879	CLAMP 0.38 PEX CRIMP	4
4	108419	CAGE ASM SIGHTGLASS 24.00	2
5	107499	CAP ASM 1PSI SAE32 W/ 6.00 CAGE	2
6	110847	CAP ASM 12.00 DIPSTICK	1
7	C2126	PLUG 0.75 NPT SQ HD MAGNETIC	1
8	110883	MNT ASM GRACO NEW OIL	2
9	95767	PUMP ASM GRACO FIRE-BALL 300 5:1	2
10	110730	FTG 16-16X3.50 MP-MP NIPPLE STRAIGHT SCH40 GALV	2
11	97866	FTG 16-16 FP-FP 90 GALV	2
12	103499	FTG 16-16 MP-HB INSERT ADAPTER	2
13	C4659	HOSE CLAMP #16 SS	5
14	97863	FTG 6-6 PTC-MP 90 SWIVEL ZINC	2
15	102564	PUMP ASM GRACO 1050 CONFIG 1	1
16	110799	HARDWARE KIT WST PUMP MNT	1

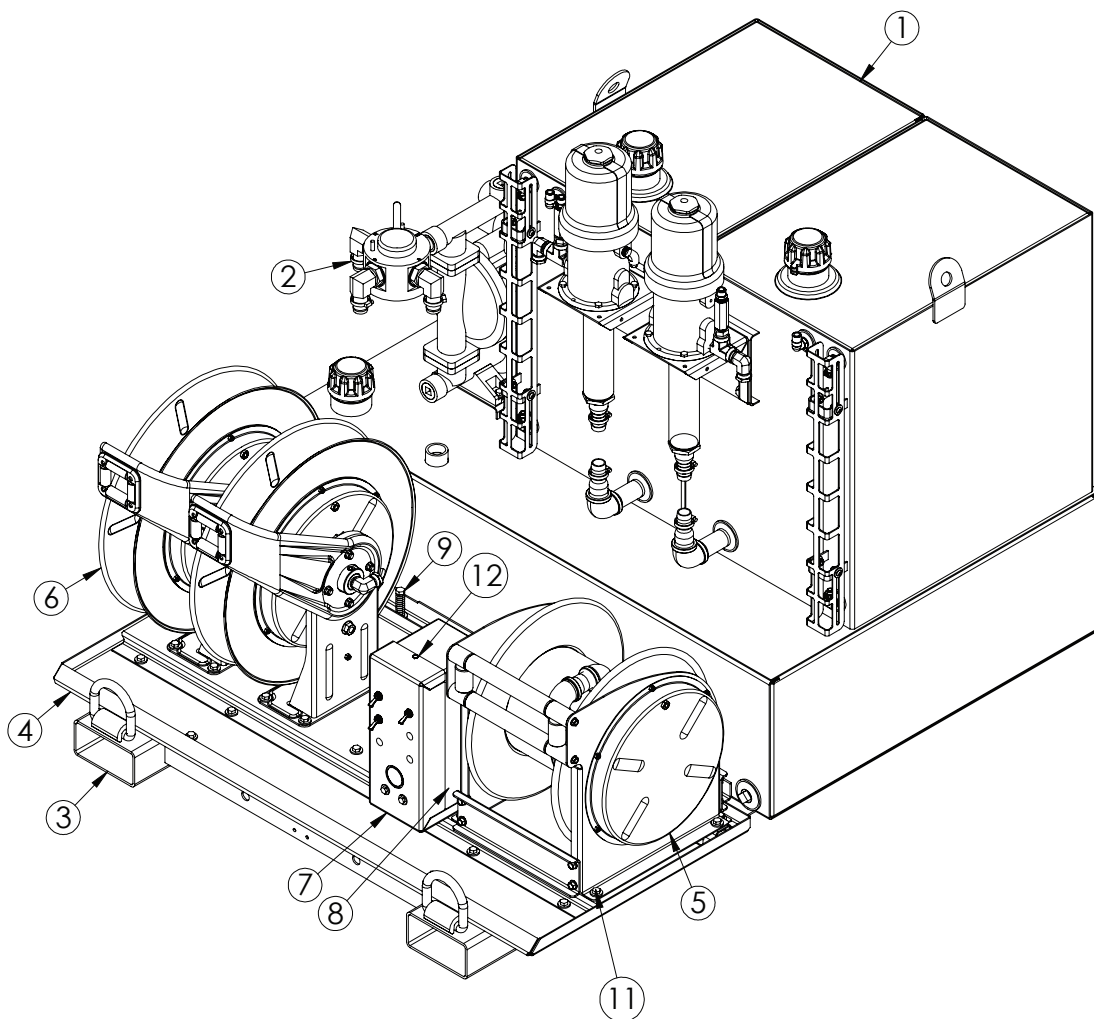
REV. A

## ITEMS NOT SHOWN

PART	DESCRIPTION	QTY
110876	HOSE 1.00(300PST)-16MP-12CL	1
C6348	TUBING NYLON 0.38ID X 0.56OD CLEAR	3.17
60200	TUBING NYLON AIR BRAKE 0.38	2
D1449	HOSE SUCT 1.00(RM) 100R4 BRD	1.5
112788	DECAL LUBMATE 2.80X6.40	1
112787	DECAL SERIAL NUMBER AMERICAN EAGLE 2.00X2.00	1
111479	DECAL TANK DO NOT LIFT FULL	2

# Mobile Skid Assembly - 111172

- ☐ Permanent Mount Assembly  
☒ Mobile Mount Assembly





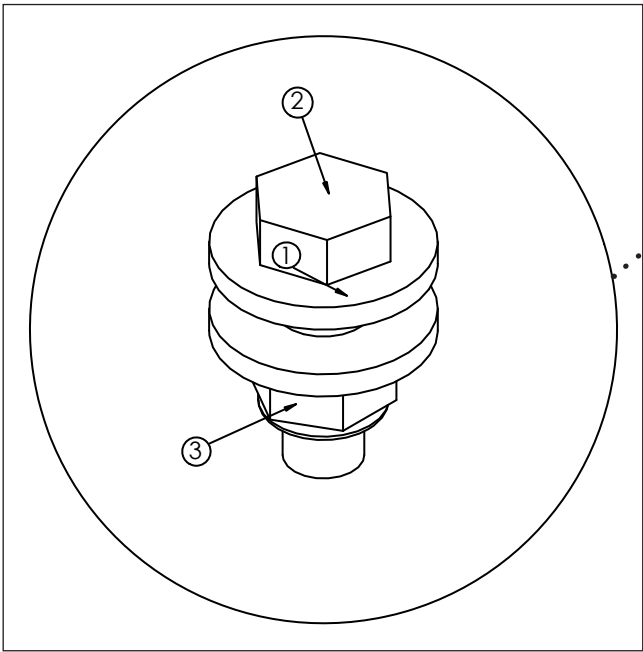
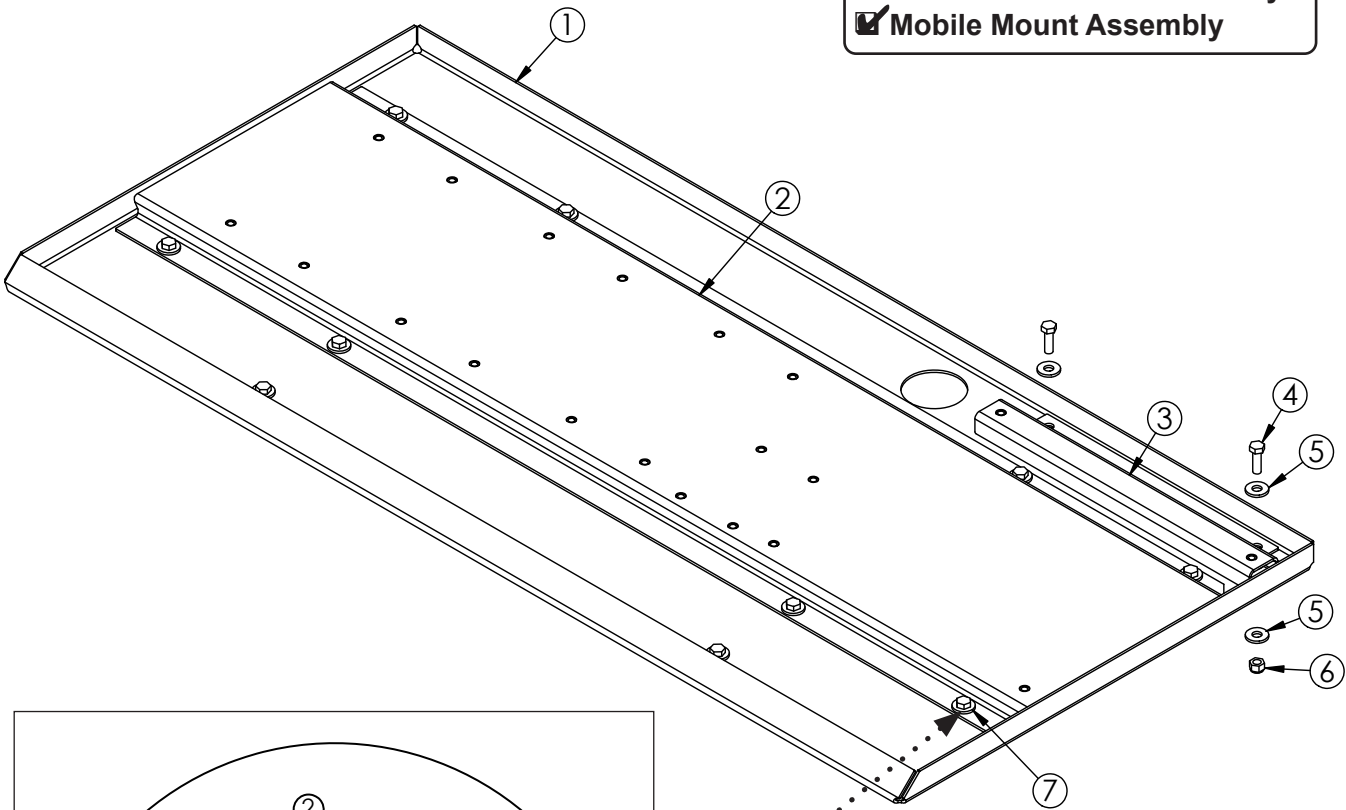
# Mobile Skid Assembly - 111172 Parts List

PN 111172			
ITEM	PART	DESCRIPTION	QTY
1	110729	TANK ASM LM160 5:1	1
2	C4659	HOSE CLAMP #16 SS	1
3	104919	MOBILE MOUNT SKID+DRIP 39.00X63.00	1
4	103306	DRIP PAN ASM M SERIES REELCRAFT	1
5	95734	HOSE REEL ASM 1 X 25 SALV REELCRAFT CSD14000-OVP BLACK	1
6	95738	HOSE REEL ASM 1/2 X 50 OIL REELCRAFT 7850-OMP BLACK	2
7	95934	CONTROL PANEL PNEUMATIC 3 TOGGLE	1
8	102186	CONTROL PANEL 6 SWITCH BACK PANEL 18GA	1
9	110794	MTG KIT LUBE SKID 4 SPRING	1
10	111173	HARDWARE KIT CONTROL PANEL MNT	1
11	111174	HARDWARE KIT REEL MNT	4
12	107495	SCREW HEX HEAD 0.25X1.00 SELF TAPPING #3 DRILL TIP	1

ITEMS NOT SHOWN		
PART	DESCRIPTION	QTY
110876	HOSE 1.00(300PST)-16MP-12CL	1
C6348	TUBING NYLON 0.38ID X 0.56OD CLEAR	3.17
60200	TUBING NYLON AIR BRAKE 0.38	2
D1449	HOSE SUCT 1.00(RM) 100R4 BRD	1.5
112788	DECAL LUBMATE 2.80X6.40	1
112787	DECAL SERIAL NUMBER AMERICAN EAGLE 2.00X2.00	1
111479	DECAL TANK DO NOT LIFT FULL	2

# Drip Pan Assembly - 103306

- ☒ Permanent Mount Assembly
- ☒ Mobile Mount Assembly



DRIP PAN HARDWARE KIT PN: 112405

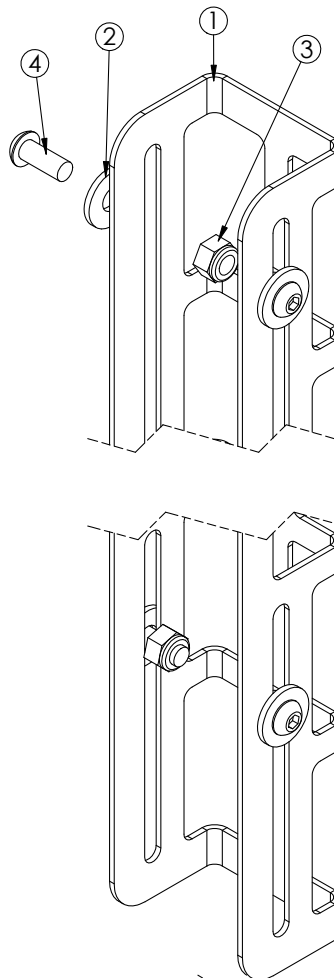
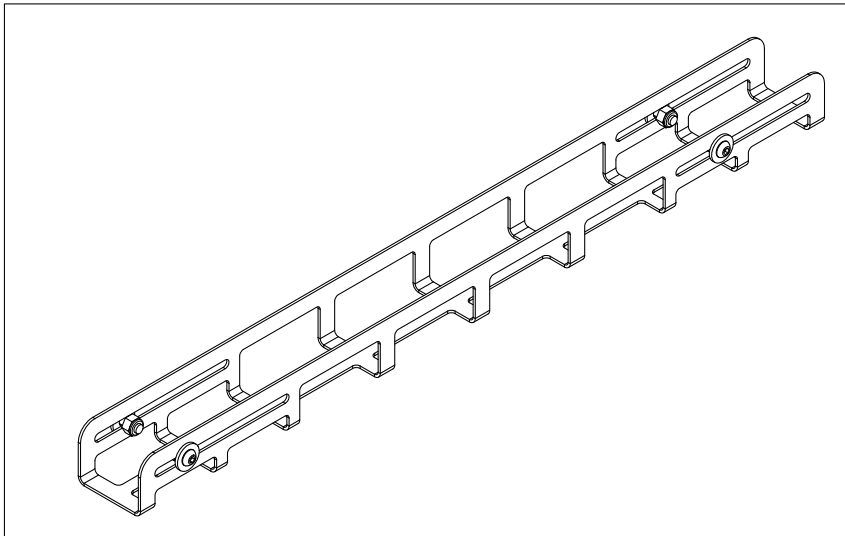
DRIP PAN HARDWARE KIT PN 112405			
ITEM	PART	DESCRIPTION	QTY
1	0343	WASHER 0.31 USS FLAT	20
2	C0922	CAP SCR 0.31-18X1.00 HHGR5	10
3	0342	NUT 0.31-18 HHGR5 NYLOC	10

## Drip Pan Assembly - 103306 Parts List

DRIP PAN ASSEMBLY PN 103306			
ITEM	PART	DESCRIPTION	QTY
1	102340	DRIP PAN STD 47.50X22.00 12GA	1
2	102757	REEL MOUNT U1 WLDMT REELCRAFT ONLY	1
3	110826	REEL MOUNT- RC 125-HALF HAT WLDMT PC WHITE	1
4	C0922	CAP SCR 0.31-18X1.00 HHGR5	2
5	343	WASHER 0.31 USS FLAT	4
6	342	NUT 0.31-18 HHGR5 NYLOC	2
7	112405	DRIP PAN M SERIES HARDWARE KIT	1
REV. C			

# Sightglass Cage Assembly - 108419

- ☒ Permanent Mount Assembly
- ☒ Mobile Mount Assembly

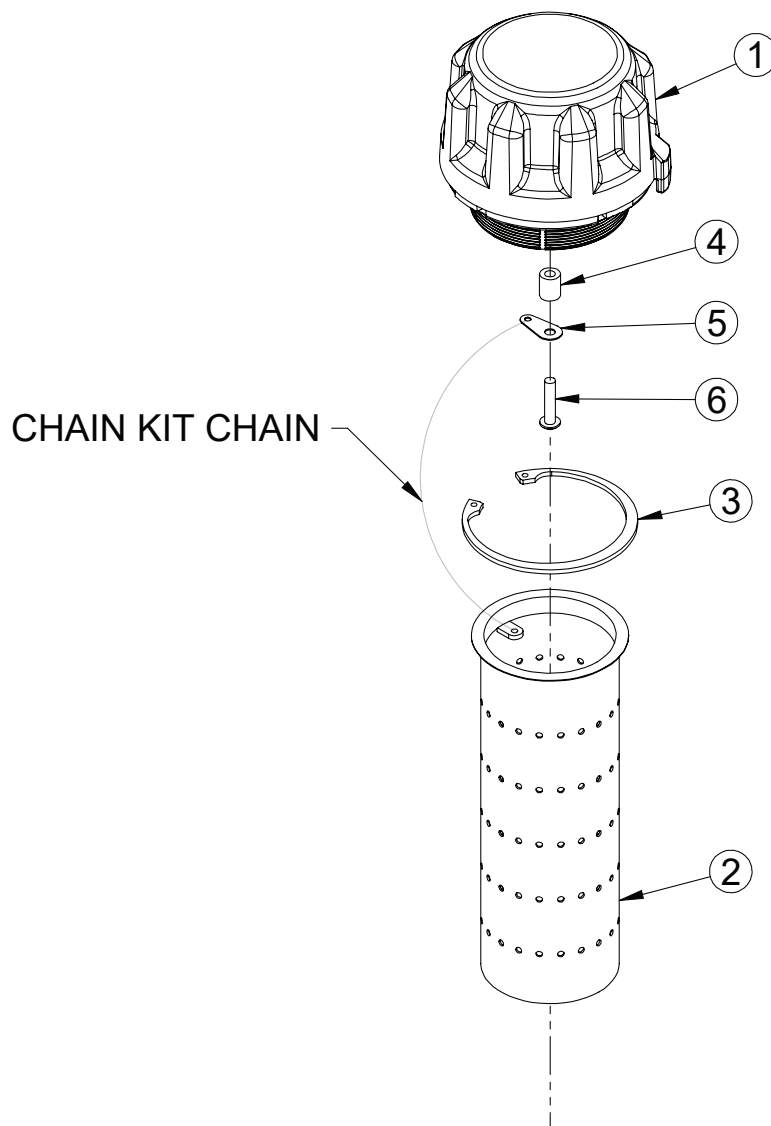


## Sightglass Cage Assembly - 108419

PN 108419			
ITEM	PART	DESCRIPTION	QTY
1	101628	SIGHTGLASS CAGE 24 14 GA SS	1
2	D0917	WASHER 0.25 FLAT SS	4
3	30659	NUT 0.25-20 HH NYLOC SS	4
4	110014	CAP SCR 0.25-20X0.63 BTNHD SS	4
REV. A			

# Fresh Oil Tank Breather Cap Assembly - 107499

- ☒ Permanent Mount Assembly
- ☒ Mobile Mount Assembly

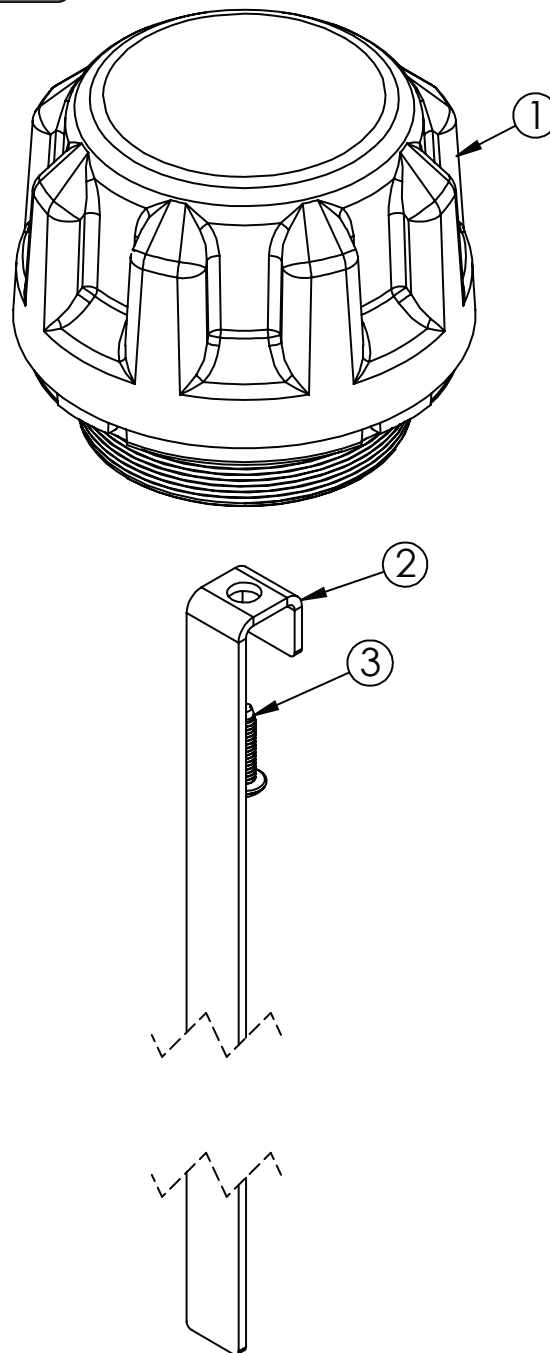


## Fresh Oil Tank Breather Cap Asm - 107499 Parts List

PN 107499			
ITEM	PART	DESCRIPTION	QTY
1	73278	CAP 1PSI ZINGA THREADED	1
2	102625	BASKET WITH TETHER TAB ZINGA	1
3	107963	SNAP RING INTERNAL 2.38 OD	1
4	102664-1	CHAIN KIT NYLON SPACER	1
5	102664-2	CHAIN KIT TAB	1
6	102664-3	SCREW #8-32X0.75 PHMS (CHAIN KIT)	1

# Salvage Oil Tank Dipstick Cap Assembly - 110847

- ☒ Permanent Mount Assembly
- ☒ Mobile Mount Assembly

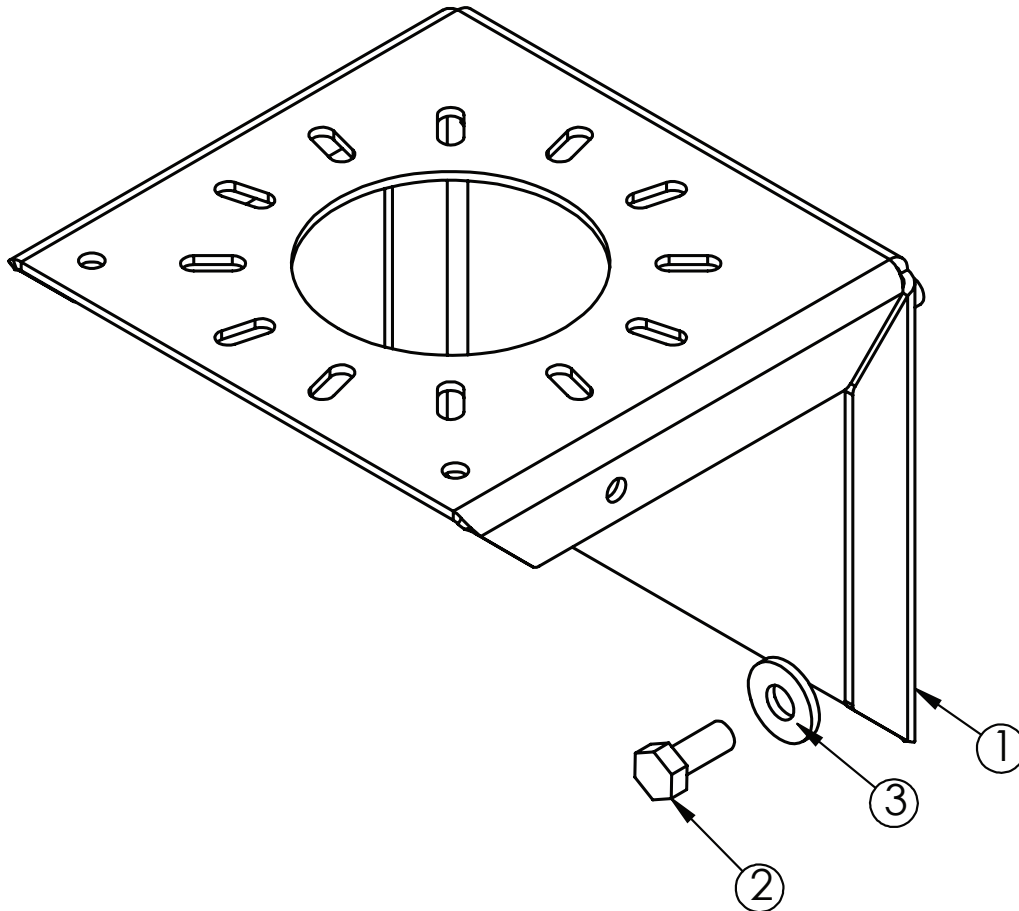


PN 110847			
ITEM	PART	DESCRIPTION	QTY
1	81018	CAP FILL NO RELIEF ZINGA THREADED	1
2	110817	DIPSTICK 12.00 14GA	1
3	110884	SCREW #8-32X0.63 PHTCS	1



# Fresh Oil Pump Mount Assembly - 110883

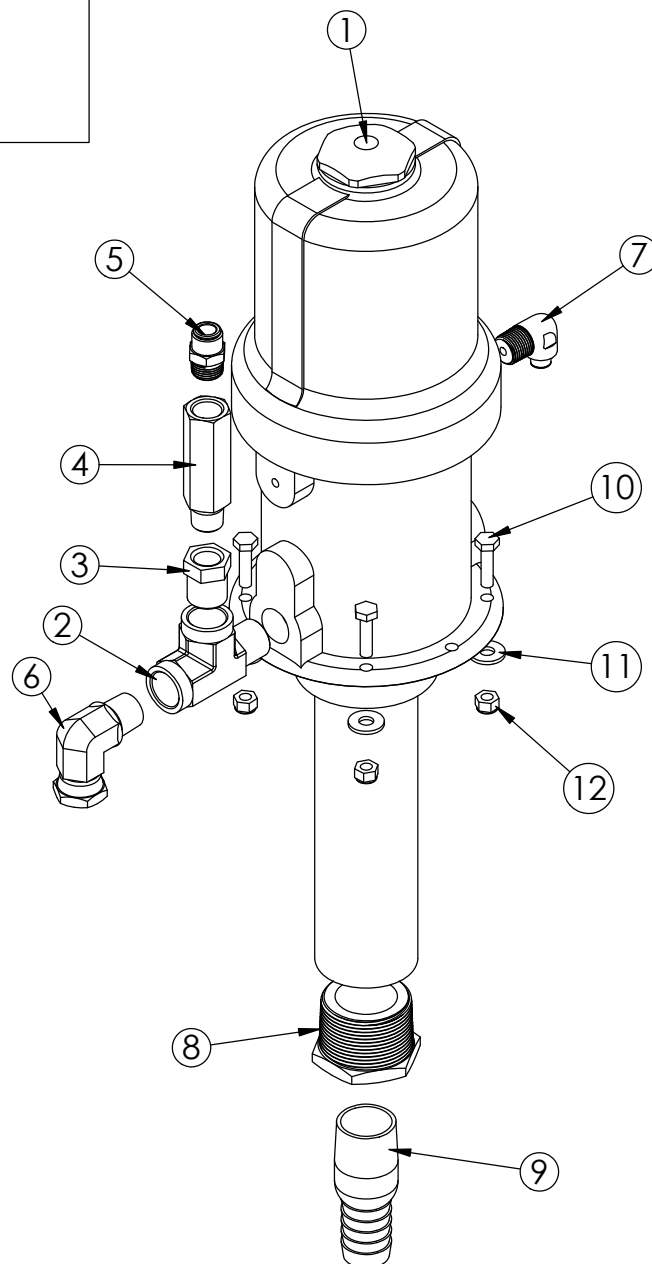
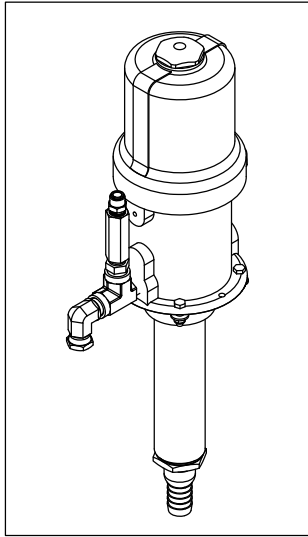
- ☒ Permanent Mount Assembly
- ☒ Mobile Mount Assembly



PN 110883			
ITEM	PART	DESCRIPTION	QTY
1	101809	BRACKET GRACO NO 3-5 CS 12 GA	1
2	0420	CAP SCR 0.31-18X0.75 HHGR5	4
3	0343	WASHER 0.31 USS FLAT	4

# Fresh Oil Pump Assembly (5:1) - 95767

- ☒ Permanent Mount Assembly
- ☒ Mobile Mount Assembly

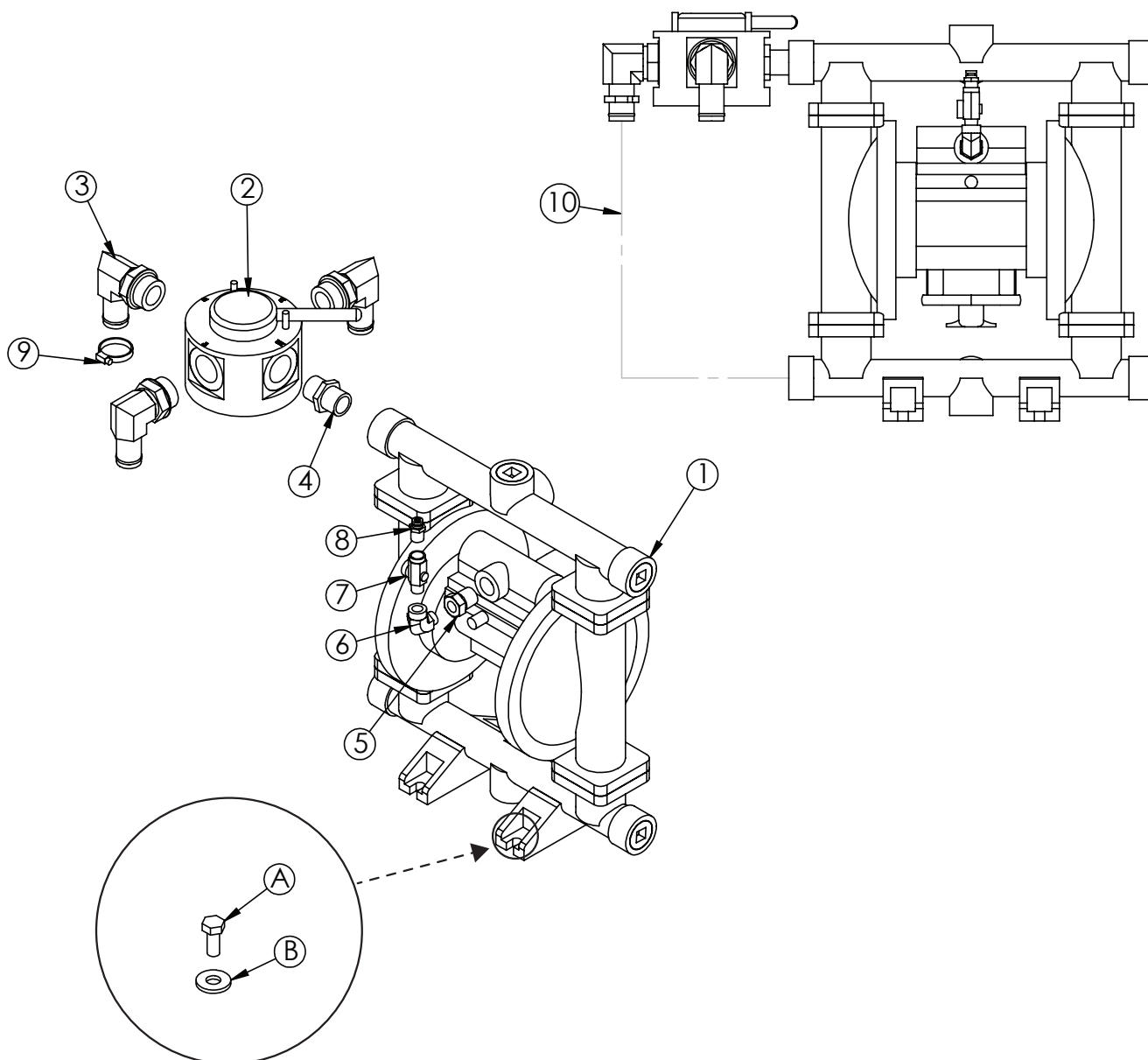


# Fresh Oil Pump Assembly (5:1) - 95767 Parts List

PN 95767			
ITEM	PART	DESCRIPTION	QTY
1	97862	PUMP GRACO FIRE-BALL 300 5:1	1
2	52183	FTG 8-8-8 MP-FP-FP STREET TEE	1
3	0548	FTG 8-6 MP-FP REDUCER BUSHING	1
4	97860	VALVE RELIEF PUMP 3:1/5:1	1
5	97861	FTG 6-6 PTC-MP STRAIGHT ZINC	1
6	52529	FTG 8-8 MP-FPS 90	1
7	95704	FTG 4-6 PTC-MP 90	1
8	108345	FTG 24-16 MP-FP REDUCER BUSHING	1
9	103499	FTG 16-16 MP-HB INSERT ADAPTER	1
10	0480	CAP SCR 0.25-20X1.00 HHGR5	4
11	0340	WASHER 0.25 USS FLAT	4
12	0333	NUT 0.25-20 HHGR5 NYLOC	4
REV. A			

# Salvage Oil Pump Assembly - 102564

- ☒ Permanent Mount Assembly
- ☒ Mobile Mount Assembly



**SALVAGE PUMP MT. HARDWARE KIT - 110799**  
**SEE NEXT PAGE FOR 110799 BOM.**

# Salvage Oil Pump Assembly - 102564 Parts List

## PN 102564

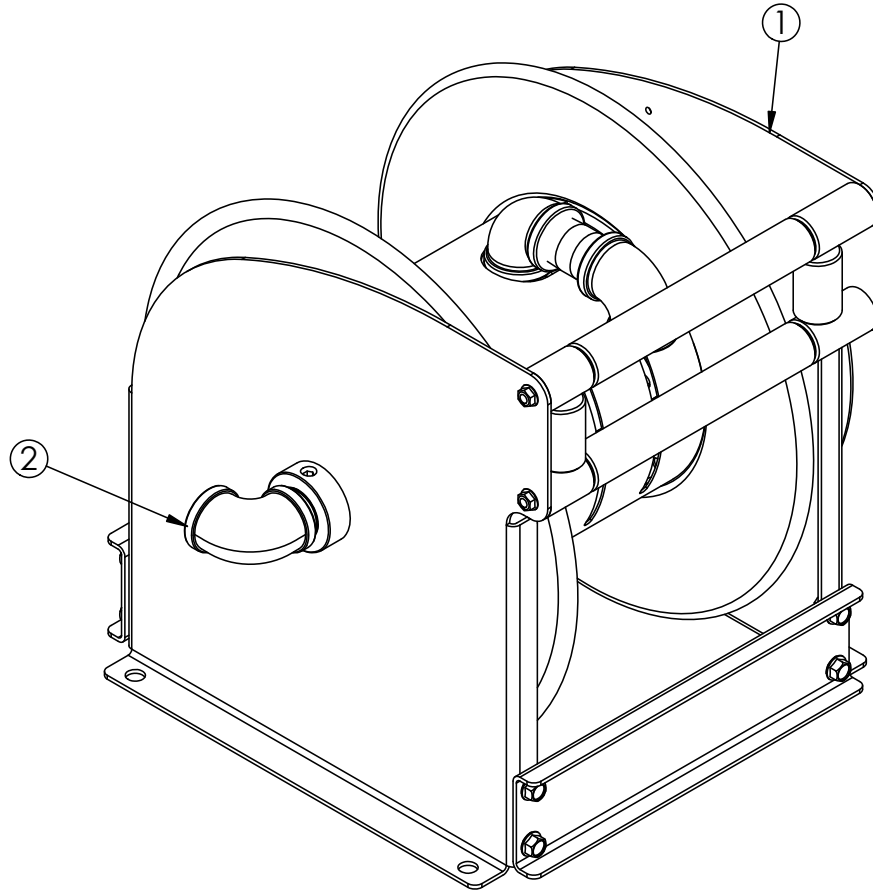
ITEM	PART	DESCRIPTION	QTY
1	58266	PUMP GRACO 1050 PN647016	1
2	100022	VALVE 4 WAY 1IN ORING EVAC	1
3	22181	FTG 16-16 HB-MAORB 90	3
4	19800	FTG 16-16 MORB-MP STRAIGHT	1
5	C0550	FTG 8-4 MP-FP REDUCER BUSHING	1
6	C5908	FTG 4-4 MP-FP 90 STREET ELBOW	1
7	102624	REGULATOR AIR 0.25 ADJ BRASS	1
8	76975	FTG 4-4 MP-PTC STRAIGHT BRASS	1
9	C4659	HOSE CLAMP #16 SS	1
10	102665	HOSE 1.00(250PSI)-16MP-16CL	1

## SALVAGE PUMP MOUNTING HARDWARE KIT PN 110799

ITEM	PART	DESCRIPTION	QTY
A	0420	CAP SCR 0.31-18X0.75 HHGR5	4
B	0343	WASHER 0.31 USS FLAT	4

# Salvage Oil Reel Assembly - 95734

- ☒ Permanent Mount Assembly
- ☒ Mobile Mount Assembly



## PN 95734

ITEM	PART	DESCRIPTION	QTY
1	102492	HOSE REEL 1 X 25 REELCRAFT CSD14000-OVP BLACK	1
2	97866	FTG 16-16 FP-FP 90 GALV	1

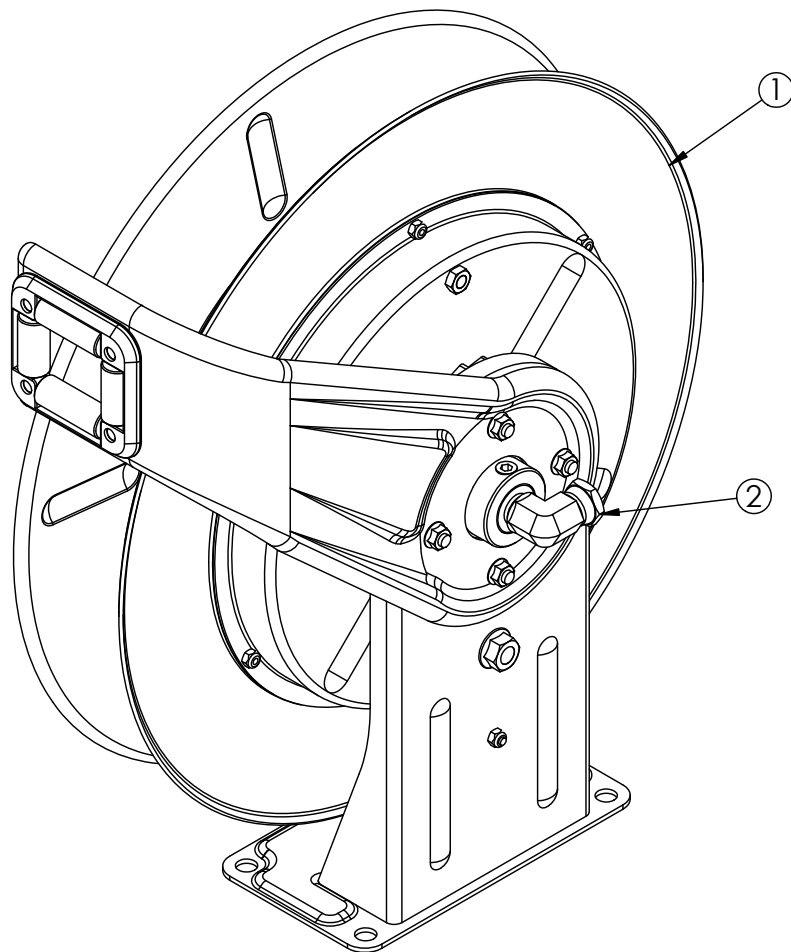
REV. A

## ITEMS NOT SHOWN

PART	DESCRIPTION	QTY
110698	HOSE 1.00(300PSI)-16MP-16MP-300CL	1
95705	QUICK CPLR 6601-16 FL 1.00 NPT	1
107280	HOSE STOP 1.00 BP-1529L	1

# Fresh Oil Reel Assembly - 95738

- ☒ Permanent Mount Assembly
 ☒ Mobile Mount Assembly



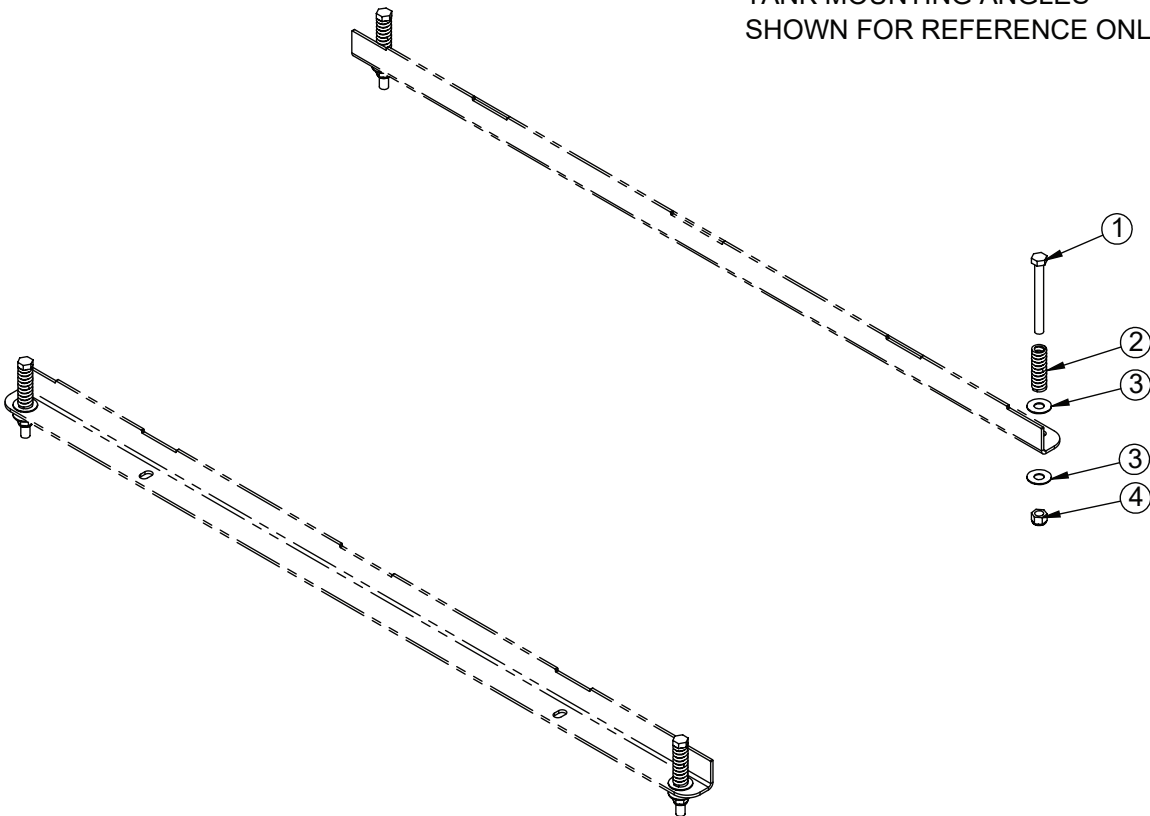
PN 95738			
ITEM	PART	DESCRIPTION	QTY
1	102488	HOSE REEL 1/2 X 50 REELCRAFT 7850-OMP BLACK	1
2	52529	FTG 8-8 MP-FPS 90	1
REV. B			

**NOTE:**  
102488 COMES WITH HOSE AND STOP INSTALLED.

# Mounting Kit (4 Spring) - 110794

- ☒ Permanent Mount Assembly
- ☒ Mobile Mount Assembly

TANK MOUNTING ANGLES  
SHOWN FOR REFERENCE ONLY

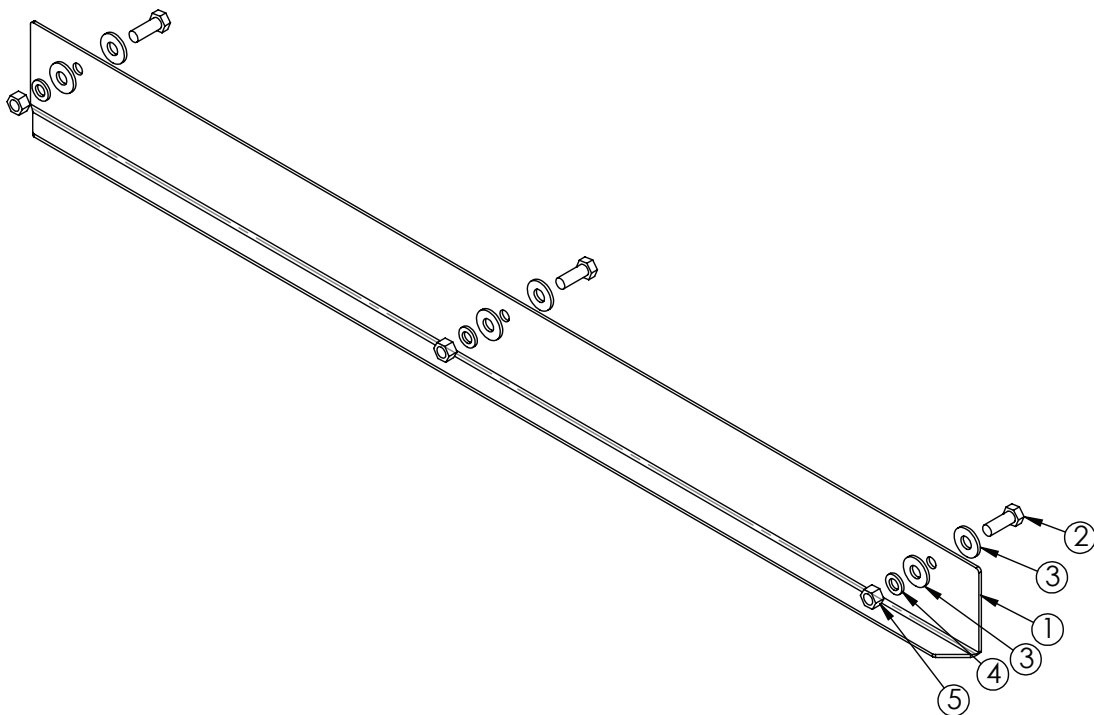


PN 110794			
ITEM	PART	DESCRIPTION	QTY
1	0531	CAP SCR 0.38-16X3.50 HHGR5	4
2	105431	SPRING LEE SPRING LC 120HH 06S	4
3	22166	WASHER 0.38 USS FLAT SS	8
4	0347	NUT 0.38-16 HHGR5 NYLOC	4
REV. A			



# Optional Mounting Angle Kit - 110795

- ☒ Permanent Mount Assembly
- ☐ Mobile Mount Assembly

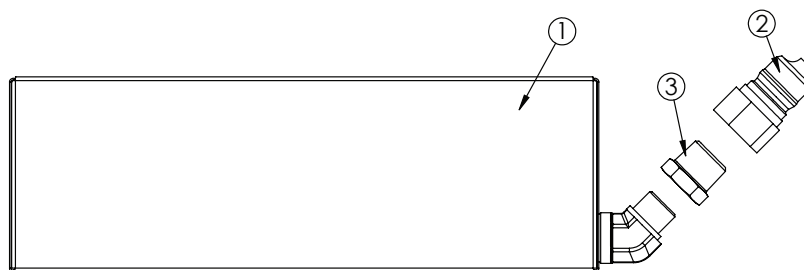
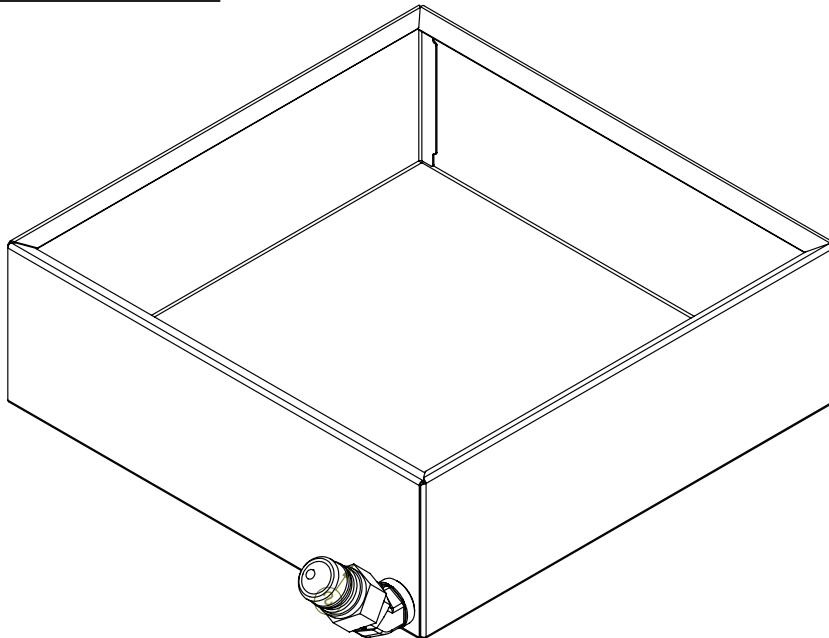


PN 110795			
ITEM	PART	DESCRIPTION	QTY
1	105611	ANGLE FRMD SKID BULKHEAD MNT 12GA	1
2	0351	CAP SCR 0.38-16X1.00 HHGR5	3
3	0346	WASHER 0.38 USS FLAT	6
4	0523	WASHER 0.38 LOCK	3
5	0535	NUT 0.38-16 HHGR5	3

ITEMS NOT SHOWN		
PART	DESCRIPTION	QTY
110885	HARDWARE KIT PALLET MTG ANGLE	1

## Drain Pan Assembly (7.5 Gal) - 110888

- ☒ Permanent Mount Assembly
- ☒ Mobile Mount Assembly
- ☒ Poly Tank

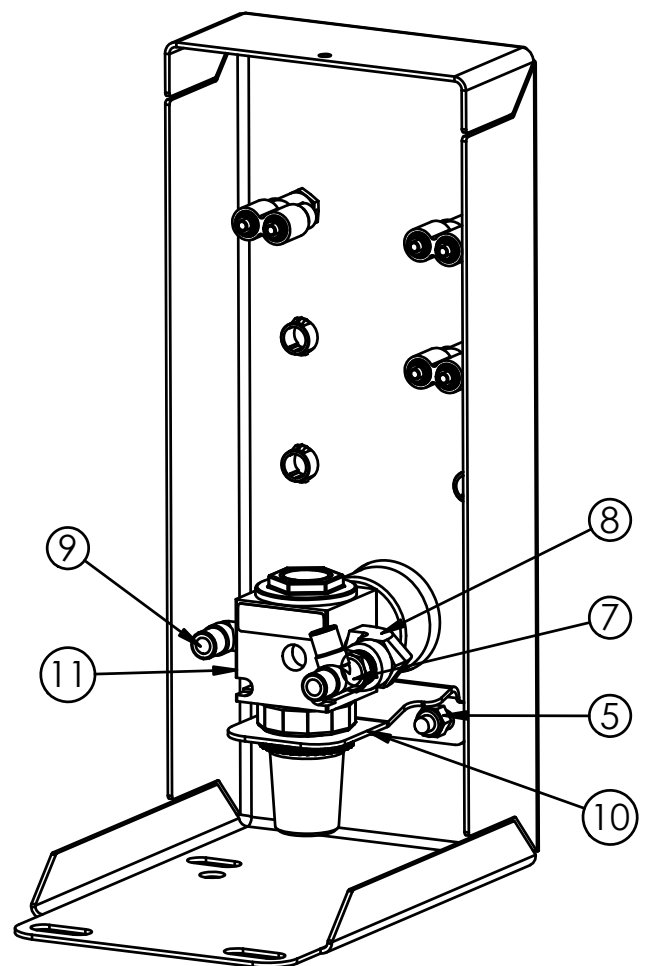
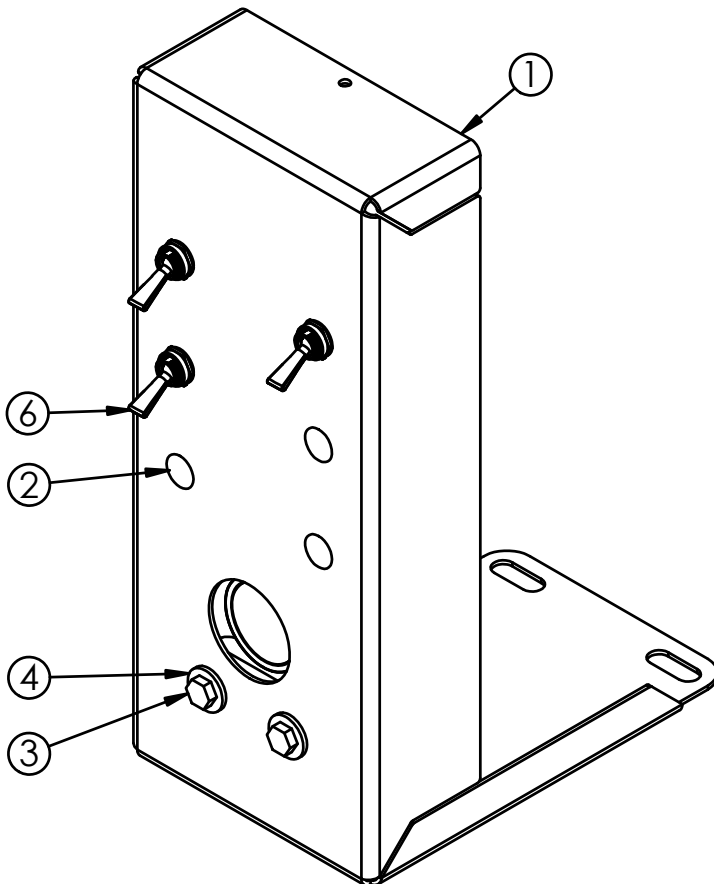


PN 110888			
ITEM	PART	DESCRIPTION	QTY
1	95938	DRAIN PAN WLDMT 7.50 GAL	1
2	95707	QUICK CPLR 6602-16 ML 1.00 NPT	1
3	111875	FTG 16-12 MP-FP REDUCER BUSHING	1

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# Control Panel - 95934

- ☒ Permanent Mount Assembly
- ☒ Mobile Mount Assembly



# Control Panel - 95934

PN 95934			
ITEM	PART	DESCRIPTION	QTY
1	102190	CONTROL PANEL 6 SWITCH 14GA	1
2	107060	HOLE PLUG 0.500" NYLON BLACK	3
3	0479	CAP SCR 0.25-20X0.75 HHGR5	2
4	0340	WASHER 0.25 USS FLAT	2
5	0333	NUT 0.25-20 HHGR5 NYLOC	2
6	94919	SWITCH ASM AIR PNEUMATIC (RM) 32231	3
7	102135	FTG 4-4-4 PTC-MPS-PTC RUN TEE	1
8	C5908	FTG 4-4 MP-FP 90 STREET ELBOW	1
9	102049	FTG 4-4 PTC-MPS 90	1
10	124598	BRACKET 14GA GRACO 0.25 REGULATOR	1
11	123595	REGULATOR GRACO 0.25 25U715	1
REV. D			

ITEMS NOT SHOWN		
PART	DESCRIPTION	QTY
C6244	TUBING NYLON AIR BRAKE 0.25	2.5
102047	FTG 4-4-4 PTC-PTC-PTC UNION TEE	1
112787	DECAL SERIAL NUMBER 2.00X2.00	1

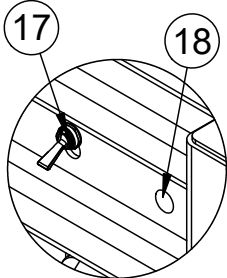
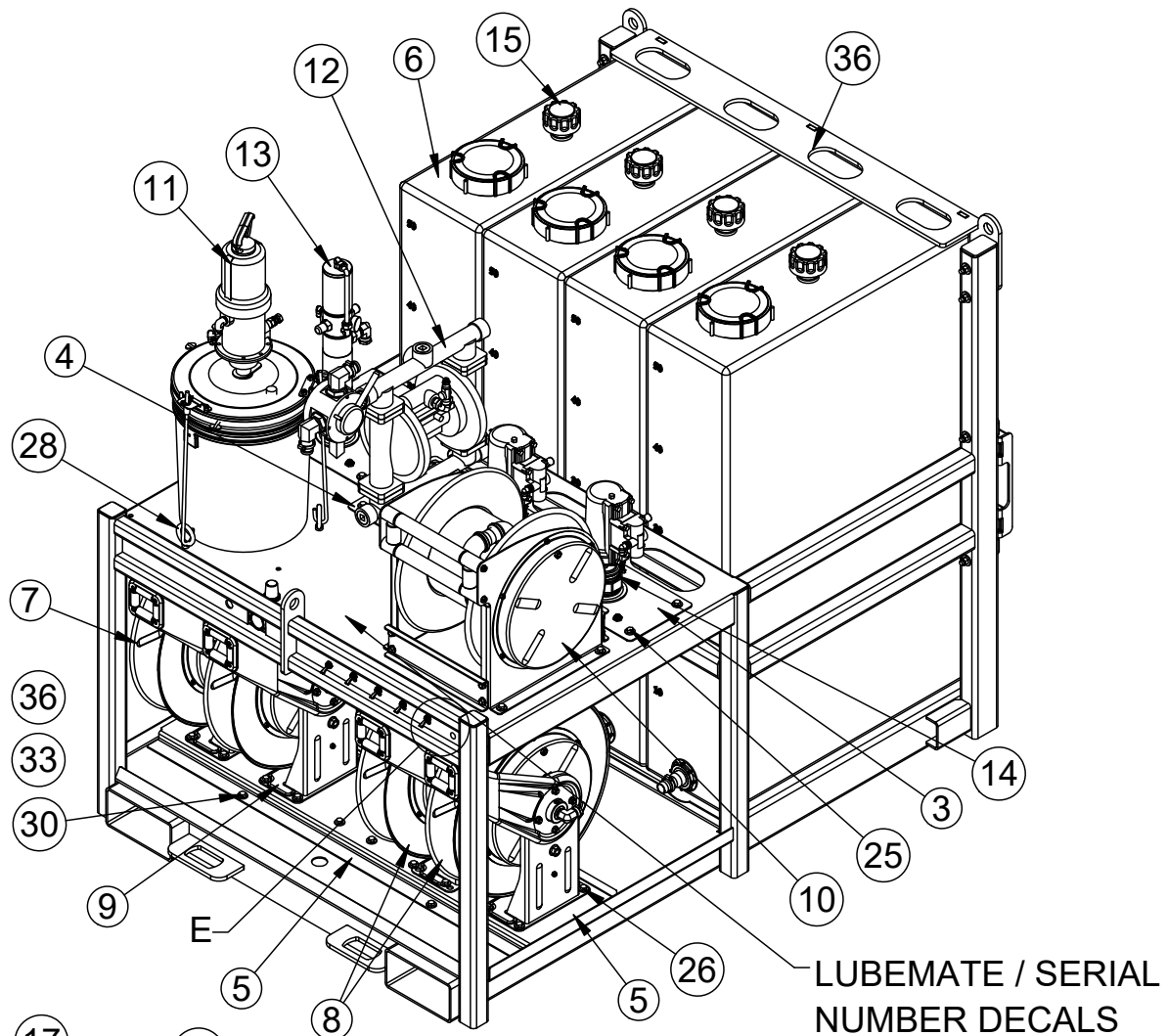
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# Chapter 5 - Poly Tanks Assembly

## Chapter Contents

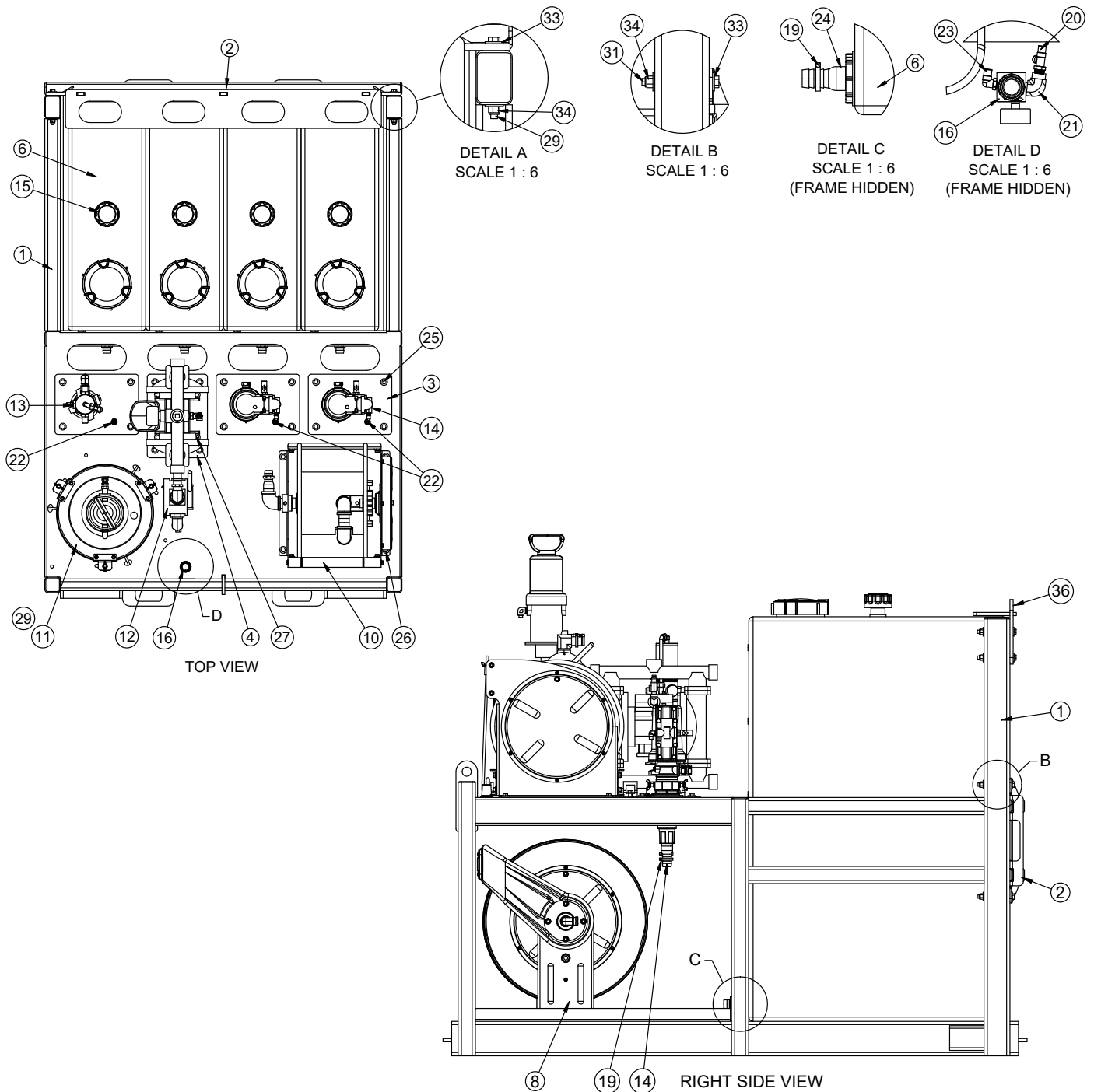
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# Poly Tank Skid Asm - 118801





# Poly Tank Skid Asm - 118801 (Continued)



# Poly Tank Skid Asm - 118801 Parts List

PN 118801			
ITEM	PART	DESCRIPTION	QTY
1	118800	SKID WLDMT POLY TANKS	1
2	118695	BRACKET WLDMT POLY SKID	1
3	118699	PLATE WLDMT PUMP 2.00 NPT	3
4	118697	PLATE 12GA 1050 PUMP	1
5	118880	REEL MOUNT WLDMT RC 5S 45.75	1
6	123594	TANK 55GAL POLY 10WX30DX47H	4
7	96323	HOSE REEL ASM 1/2 X 50 AIR REELCRAFT 7850-OLP BLACK	1
8	95738	HOSE REEL ASM 1/2 X 50 OIL REELCRAFT 7850-OMP BLACK	2
9	96324	HOSE REEL ASM 3/8 X 50 GREASE/PW REELCRAFT 7650-OHP BLACK	1
10	95734	HOSE REEL ASM 1 X 25 SALV REELCRAFT CSD14000-OVP BLACK	1
11	95835	GREASE KIT 35LB NO REEL GRACO	1
12	111021	PUMP ASM GRACO 1050 CONFIG 11	1
13	95760	PUMP ASM A/F 1:1 RAASM STD	1
14	116710	PUMP ASM GRACO LD 5:1	2
15	116691	BREATHER 16 MP DONALDSON P562531	4
16	123595	REGULATOR GRACO 0.25 25U715	1
17	94919	SWITCH ASM AIR PNEUMATIC (RM) 32231	5
18	107060	HOLE PLUG 0.500" NYLON BLACK	1
19	C4659	HOSE CLAMP #16 SS	10
20	102135	FTG 4-4-4 PTC-MPS-PTC RUN TEE	1
21	C5908	FTG 4-4 MP-FP 90 STREET ELBOW	1
22	102136	FTG 4-4 PTC-PTC BULKHEAD UNION	4
23	102049	FTG 4-4 PTC-MPS 90	1
24	103499	FTG 16-16 MP-HB INSERT ADAPTER	5
25	111180	HARDWARE KIT REEL THRU	5
26	111174	HARDWARE KIT REEL MNT	5
27	113932	HARDWARE KIT WST PUMP THRU	1
28	12122	BOLT 0.38X1.00 EYE 567-23-ZN	3
29	32086	CAP SCR 0.38-16X4.25 HHGR5	4
30	C0922	CAP SCR 0.31-18X1.00 HHGR5	4
31	C0953	CAP SCR 0.38-16X4.00 HHGR5	4
32	0343	WASHER 0.31 USS FLAT	8
33	0346	WASHER 0.38 USS FLAT	19
34	347	NUT 0.38-16 HHGR5 NYLOC	11
35	0342	NUT 0.31-18 HHGR5 NYLOC	4
36	131162	LIFTING BAR WLDMT POLY SKID	1
REV. D			

# Poly Tank Skid Asm - 118801 Parts List-continued

## ITEMS NOT SHOWN

PART	DESCRIPTION	QTY
116048	HOSE 0.50(3000PSI)-8MP-8MP-45CL	2
115158	HOSE 0.38(10000PSI)-6MP-4MP-54CL	1
119584	HOSE 0.50(300PSI)-8MP-8MP-40CL	1
D1449	HOSE SUCT 1.00 (RM) 100R4 BRD	10
112787	DECAL SERIAL NUMBER AMERICAN EAGLE 2.00X2.00	1
112788	DECAL LUBEMATE 2.80X6.40	1
111482	FTG 4-4-4-4 PTC-PTC-PTC-PTC CROSS	1
102047	FTG 4-4-4 PTC-PTC-PTC UNION TEE	1
C6244	TUBING NYLON AIR BRAKE 0.25	25





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