



Operator Manual

Vacuum Truck



Curry Supply Co., 1477 Degol Industrial Drive, Hollidaysburg, PA 16648

YOUR JOBS. OUR TRUCKS.



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SECTION 1

Introduction & Safety Messages

CONTACT US

Curry Supply Company

1477 DeGol Industrial Drive, Hollidaysburg, PA 16648

service@currysupply.com CurrySupply.com

Parts 800.567.5127

Warranty Service 800.345.2829

MANUAL USAGE

This Operators Manual contains information to safely operate more than (1) configuration of "Curry Supply Vacuum Trucks". The parts shown may not reflect the exact configuration on your truck. "Custom" style trucks may have parts not listed. If your system is not covered in this manual, please contact Curry Supply Co.

Support at 800.345.2829 or

service@currysupply.com.

All personnel working on or operating the machine must become familiar with the following safety messages.

Due to the nature of these processes, ensure that all safety information, warnings, and instructions are read and understood before any operation or maintenance procedures are performed.

This manual does not supersede any local, state, or federal laws.

SAFETY MESSAGES

The following definitions are found throughout this manual and apply as follows:

WARNING

OPERATING PROCEDURES AND TECHNIQUES COULD RESULT IN PERSONAL INJURY OR LOSS OF LIFE IF NOT FOLLOWED CORRECTLY.

CAUTION


OPERATING PROCEDURES AND TECHNIQUES WHICH COULD RESULT IN DAMAGE TO EQUIPMENT IF NOT FOLLOWED CORRECTLY.

NOTE

OPERATING PROCEDURES AND TECHNIQUES THAT ARE CONSIDERED ESSENTIAL TO EMPHASIZE.


WARNING

IMPROPER USE OF EQUIPMENT
COULD CAUSE SERIOUS INJURY OR
DEATH. PLEASE READ AND
UNDERSTAND ALL INSTRUCTIONS.




WARNING

WHEN OPERATING OR WORKING
ON THE UNIT, KEEP HANDS AND
BODY PARTS CLEAR OF PINCH
POINTS.




WARNING

CONTACT WITH LIVE
ELECTRICAL CIRCUITS COULD
DAMAGE EQUIPMENT OR CAUSE
INJURY.




WARNING

MOVING PARTS CAN CRUSH
AND CUT. KEEP HANDS, FEET,
HAIR, AND LOOSE CLOTHING
AWAY FROM MOVING PARTS.



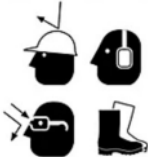
CAUTION

ADVERSE WEATHER CONDITIONS
CAN CAUSE EQUIPMENT DAMAGE.
WHENEVER POSSIBLE, PERFORM
MAINTENANCE INDOORS.




WARNING

ALWAYS WEAR THE PROPER PPE
WHILE OPERATING THE UNIT.




WARNING

DO NOT OPERATE THE UNIT WHILE
INTOXICATED OR EXTREMELY
EXHAUSTED.




WARNING

DO NOT WALK ON TOP OF THE
VEHICLE. FALLING FROM
VEHICLE CAN RESULT IN
SERIOUS INJURY.




CAUTION

DRAIN ALL LIQUID DAILY DURING
FREEZING TEMPERATURES.
FREEZING LIQUID CAN RESULT IN
DAMAGE TO EQUIPMENT.




WARNING

THE VEHICLE IS EQUIPPED WITH A
BACK-UP ALARM. ALARM MUST
SOUND WHEN OPERATING THIS
VEHICLE IN REVERSE.




WARNING

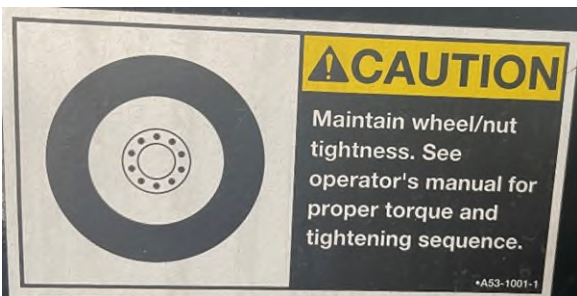
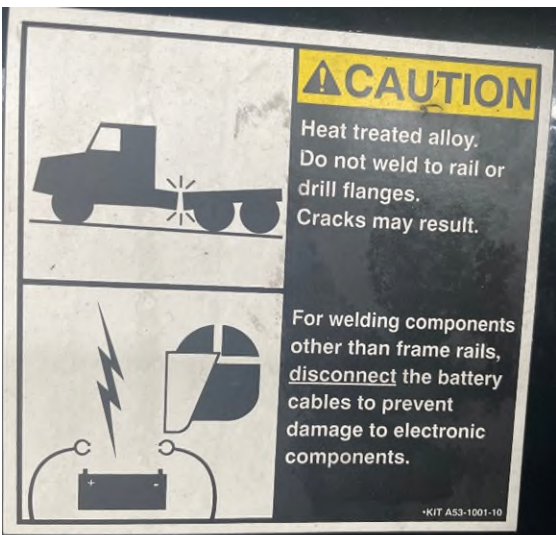
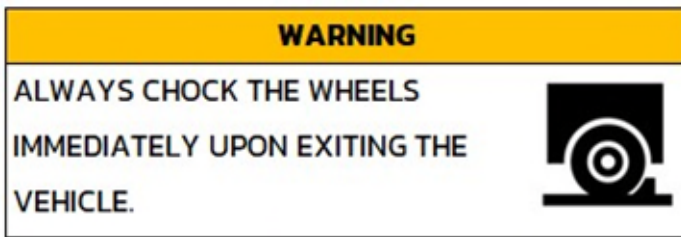
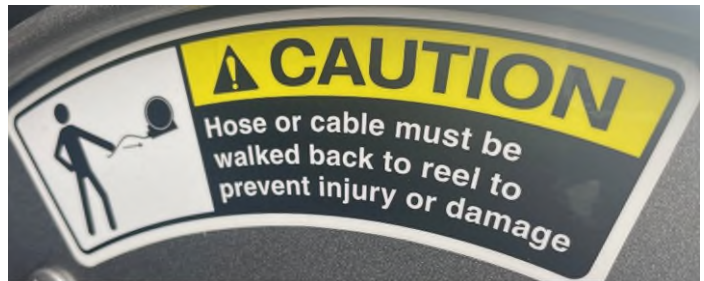
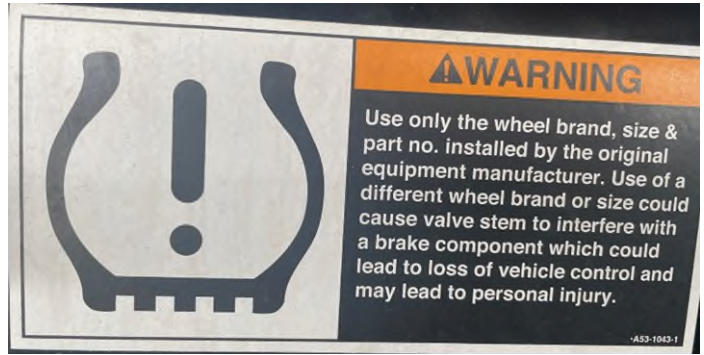
TOXIC FLUIDS OR FUMES CAN CAUSE
SERIOUS INJURY OR DEATH IF
SPLASHED IN THE EYES OR ON SKIN,
INHALED, OR SWALLED.



WARNING

ALWAYS WEAR YOUR SAFETY
BELT WHILE DRIVING THE VEHICLE.
IF VEHICLE TIPS, STAY BUCKLED
AND INSIDE OF CAB AREA.





SECTION 2

System Descriptions

SIDE VIEW OF TRUCK



This Operator's Manual provides information on how to safely operate more than one version of the "Curry Supply Company Vacuum Truck." The truck shown may not exactly match your truck's configuration. "Custom" trucks may have different parts that aren't listed here. If your system isn't covered in this manual, please contact Curry Supply Co. Support at 800-345-2829 or service@currysupply.com.

REAR VIEW OF TRUCK



EQUIPMENT

Trucks are manufactured with various equipment combinations. Find more information about these components by clicking the links in the following table. If unsuccessful finding the information needed, call Curry Supply Company at 1-800-345-2829.

FRONT VIEW OF TRUCK



24-Dec-24

Equipment	Manufacturer	Web Link
Vacuum Pump	National Vacuum Equipment, Inc.	Model 607
	Fruitland Manufacturing	ELIM-A-SM500LUF
	Masport, Inc.	HD4, 75 & 75W
Power Take Off (PTO)	Muncie Power Products, Inc.	6&8 Bolt Series
		A20 Series
		TG Series
Back Up Camera	Buyers Products Company	Model 8883000



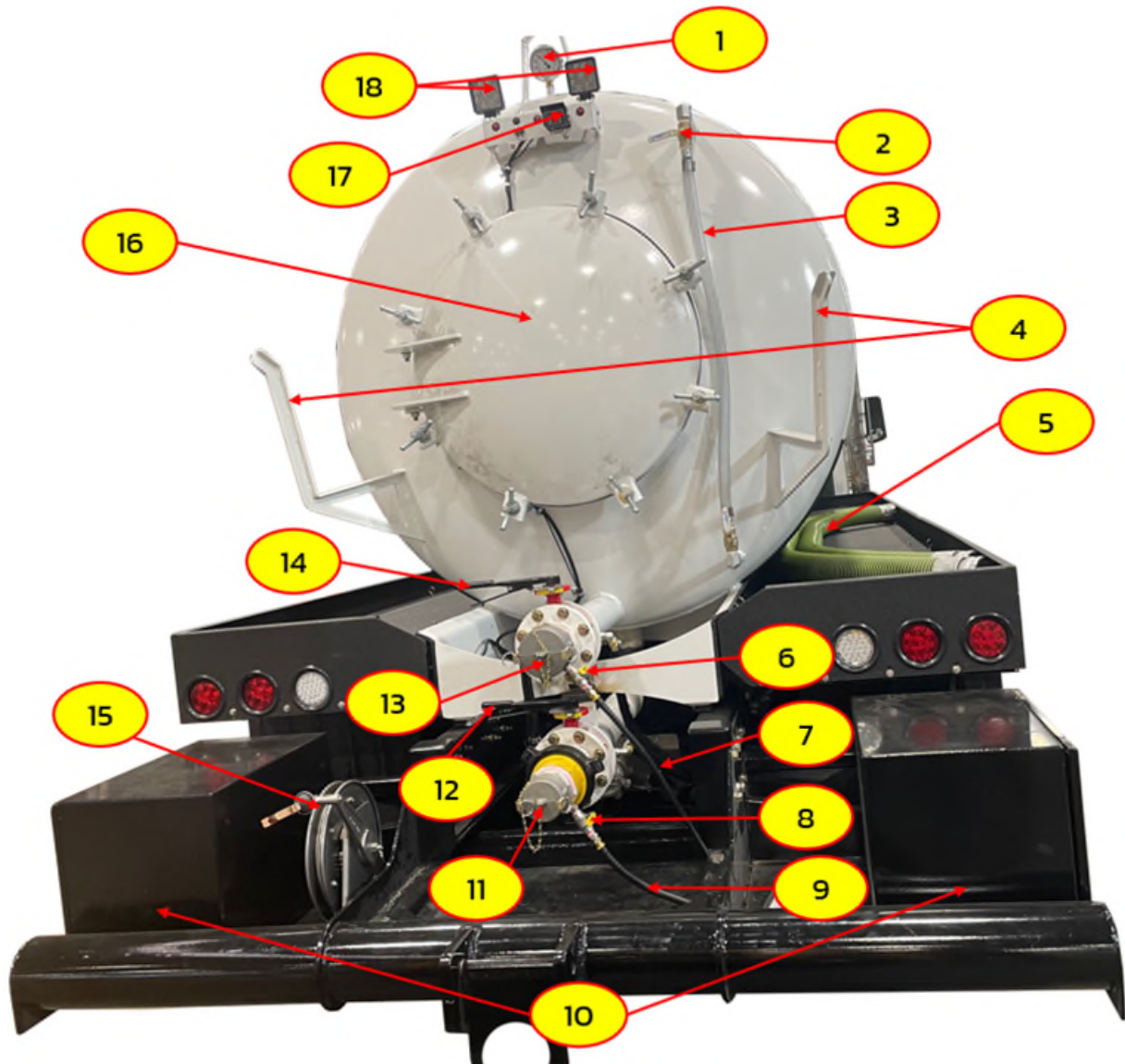
800.345.2829

| www.CurrySupply.com



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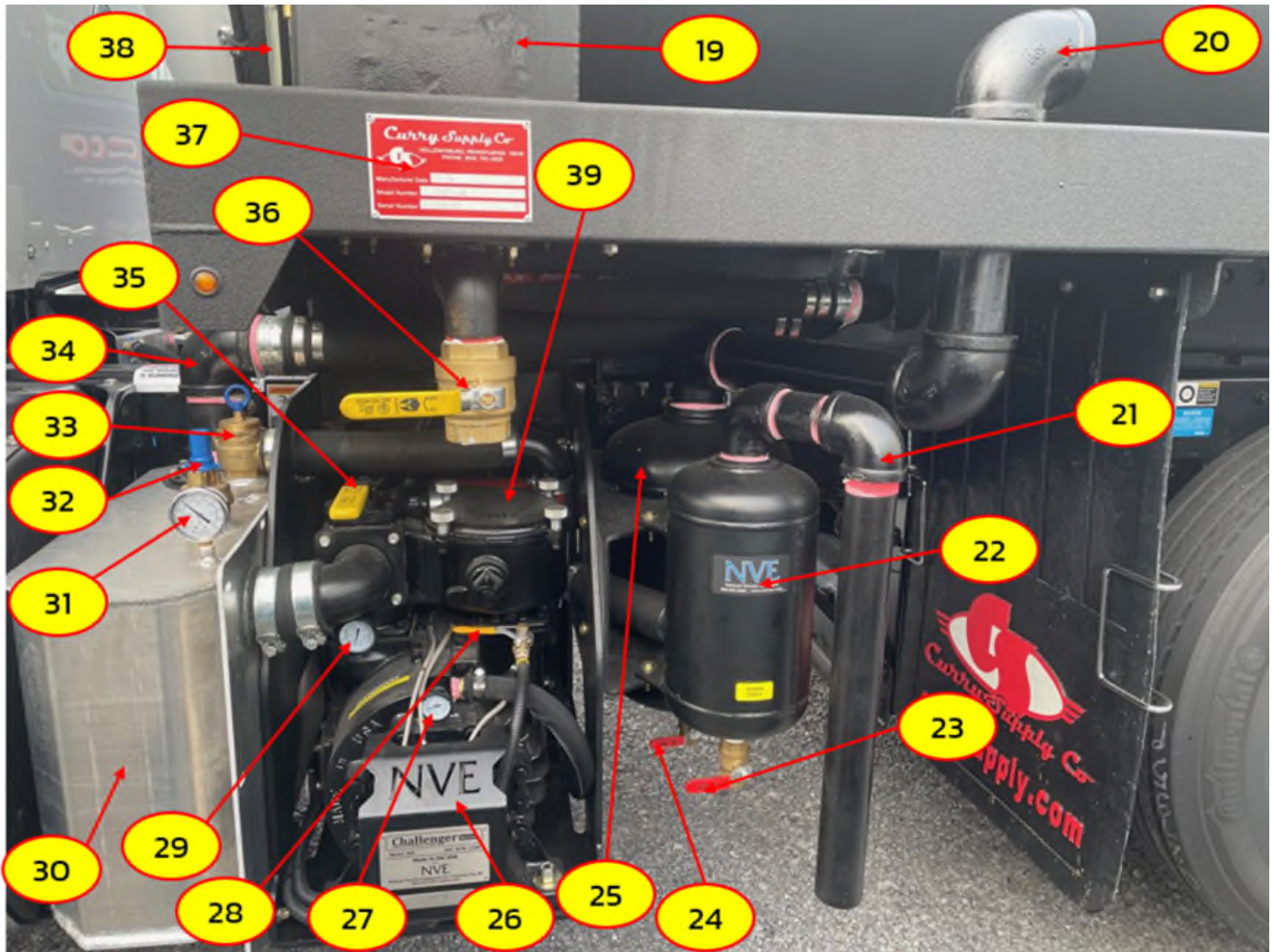
REAR VIEW



- 1. Pressure Gauge Main Tank
- 2. Ball Valve Sight Level Tube
- 3. Sight Level Tube
- 4. Hose Storage
- 5. 4" Hose
- 6. Ball Valve Pressure Relief
- 7. Relief Drain Tube
- 8. Ball Valve Pressure Relief
- 9. Relief Drain Tube

- 10. Tool Storage
- 11. Vacuum/Pressure Main Line
- 12. Valve Vacuum/Pressure Main Line
- 13. Vacuum/Pressure Main Line
- 14. Valve Vacuum/Pressure Main Line
- 15. Grounding Reel
- 16. Manway Hatch to Main Tank
- 17. Back Up Camera
- 18. Work Lights

DRIVER'S SIDE



19. Two Part Oil Tank (Flush/Pump)

20. Exhaust Outlet

21. Exhaust Outlet

22. Oil & Moisture Trap Tank

23. Oil & Moisture Drain Valve

24. Oil & Moisture Drain Valve

25. Oil & Moisture Trap Muffler

26. Vacuum Pump

27. Antifreeze Temperature Gauge

28. Flushing Valve

29. Pump Exhaust Temperature Gauge

30. Secondary Shutoff/Moisture Trap Tank

31. Pressure/Vacuum Gauge

32. Vacuum Relief Valve

33. Pressure Relief Valve

34. Primary Vacuum/Pressure Inlet

35. Main Operation Valve

(Vacuum/Neutral/Pressure)

36. Main Tank Ball Valve

37. Truck Identification Tag

38. Hydraulic Level Sight Gauge

39. Inlet Filter

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TOP OF MAIN TANK

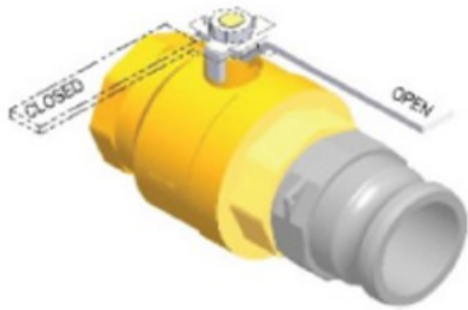


40. Main Tank Manway

42. Primary Shut Off

41. Pressure Relief Valve Main Tank

BALL VALVES



To open the valve, move the handle in line with the tube/hose.

To close the valve, move the handle 90° with the tube/hose.

EMERGENCY BRAKE

Located on the dash. A message will show on the console to let you know if the emergency brake is on or off.



AUXILIARY CONTROL PANELS

There are several auxiliary control panel designs and locations depending on the truck chassis and configuration. The panels control various truck components, including the Power Take Off (PTO), flood lights, compartment lights, strobe lights, inverter, work lights, and air compressor. The truck key must be in the "on" position, or the truck must be running, to activate these systems.



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HYDRAULIC FLUID RESERVOIR

The hydraulic fluid reservoir is located just outside the driver's side door. It is a two-part tank. One part for flushing the pump and the other for lubricating the pump. The lubricant must meet specification ISO VG 68. The flushing fluid must meet specification ISO VG 15. Fluid level is checked using the sight tubes on the side of the tank.



VACUUM/PRESSURE PUMP

The pump is driven from the integrated truck power take off (PTO). There are various manufacturers of the pump that Curry Supply Company offers. Web links to these pumps are listed in the previous table. This manual will illustrate the National Vacuum Equipment, Inc. (NVE) pump.



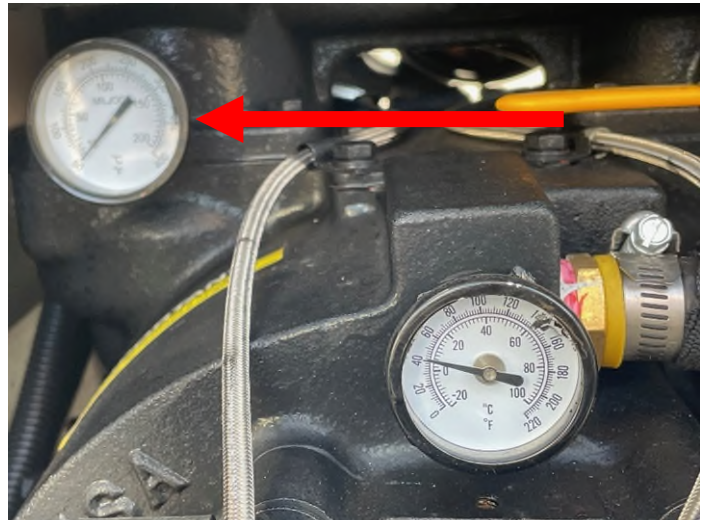
SECONDARY SHUTOFF/MOISTURE TRAP TANK

Located to the side of the vacuum pump. The tank feeds to the primary shutoff. The pressure and vacuum relief valves are installed at the top of this tank. The pressure relief valve exhaust feeds an oil catch/moisture trap tank.



EXHAUST TEMPERATURE GAUGE

Located on the front of the pump. Never allow the pump exhaust to exceed 375° maximum temperature.



INLET FILTER

Located at the top of the pump. Filter cover attached with four thumb screws.



PRESSURE/VACUUM GAUGE

Located at the top of the secondary shutoff/moisture trap tank. This gauge indicates the pressure and vacuum within the tank in pounds per square inch (psi).



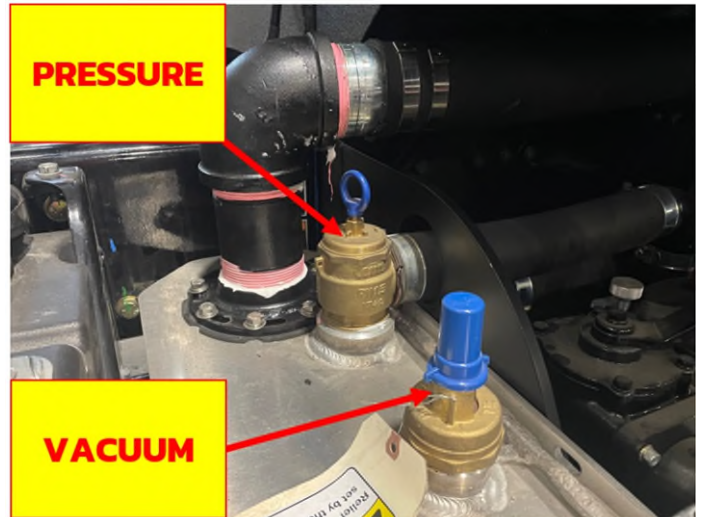
MAIN TANK PRESSURE GAUGE

Located on the rear, top of the main tank. Indicates pressure within the main tank in pounds per square inch (psi),

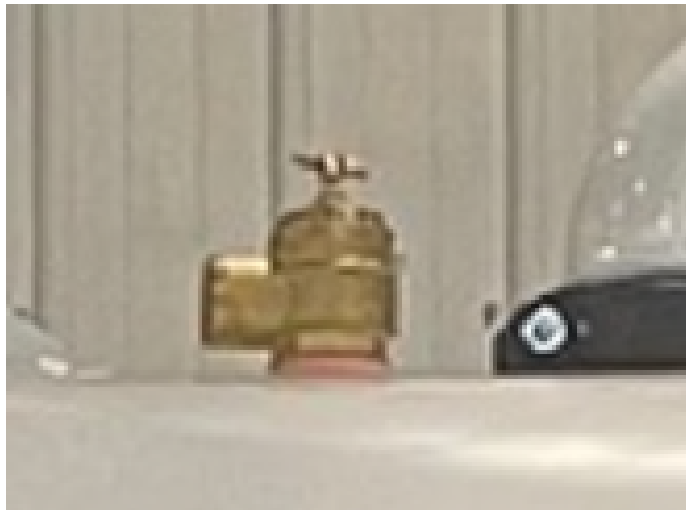


PRESSURE & VACUUM RELIEF VALVES

Located on top of the suction tank. They open when pressure exceeds 10 psi and vacuum exceeds 22 psi. These relief valves are preset and must not be adjusted.



Located on top of the main tank. This pressure relief valve opens when the pressure in the main tank exceeds 10 psi.



MANWAY HATCHES

WARNING

NEVER ATTEMPT TO OPEN THE MANWAY HATCH WHILE THE SYSTEM IS RUNNING OR WHEN THE MAIN TANK IS PRESSURIZED.

WARNING

ENSURE ADEQUATE VENTILATION WHEN ENTERING THE MAIN TANK. FOLLOW ALL MATERIAL SAFETY DATA SHEETS (MSDS) FOR THE SUBSTANCES WITHIN THE TANK.

Located at the rear and the top of the main tank, the manway hatches are used for maintenance and cleaning of the main tank.

REAR

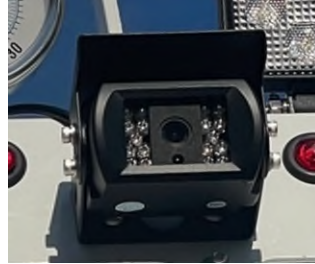


TOP



BACK UP CAMERA

Located on the rear, top of the main tank. When in reverse, the backup camera will show the view behind the vehicle on the dashboard display.



WORK LIGHTS

Located at the top rear of the main tank as well as each side of the main tank. They provide light in the work area and are controlled from within the truck cab.

SIDE

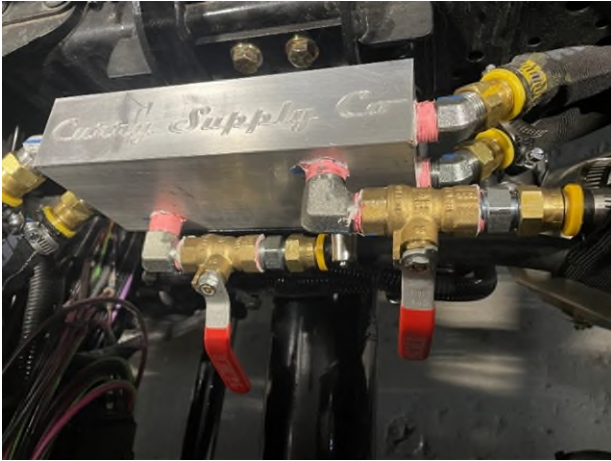


REAR



ENGINE COOLANT VALVES

Located on the frame between the truck cab and main tank. Coolant from the truck runs through these valves to the rear main vacuum/pressure tube connection couplers to keep them from freezing in cold temperatures. In warm temperatures, these valves can be shut off.



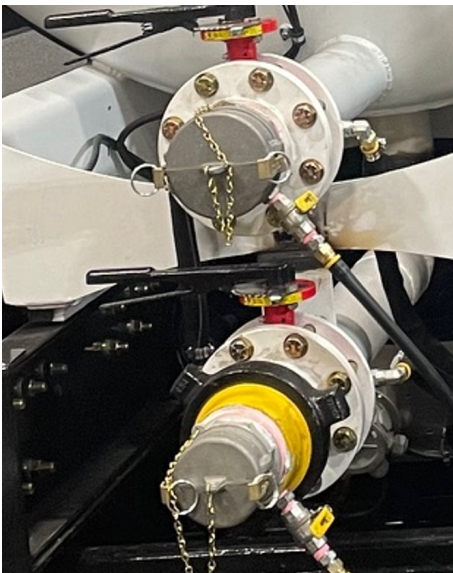
PRIMARY SHUTOFF

Located at the top of tank. Monitors the level of the main tank contents and shuts off vacuum when the level of the main tank contents reaches maximum.



MAIN TANK LINES


Either main tank line may be used for vacuum or pressure. It is recommended to use the top line for vacuum and the bottom for pressure.




SECTION 3

Normal Operations

This section provides the vehicle operator with step-by-step operating procedures for the installed systems.

WARNING	
ALWAYS APPLY THE EMERGENCY BRAKE BEFORE EXITING THE VEHICLE.	

WARNING	
ALWAYS CHOCK THE WHEELS IMMEDIATELY UPON EXITING THE VEHICLE.	

Prior to any operation, please perform a walk around inspection of the vehicle. Check specifically for any leaks or broken hoses.

TOOL STORAGE

The storage locks are covered by shields

Type 1

To unlock it, slide the shield to the side with the tip of the key while pushing the key into the lock.



Type 2

To unlock it, push the shield in with the key.



PREPARATION

WARNING

DO NOT TURN ON THE PTO UNTIL STEPS 1 THROUGH 8 ARE COMPLETE.

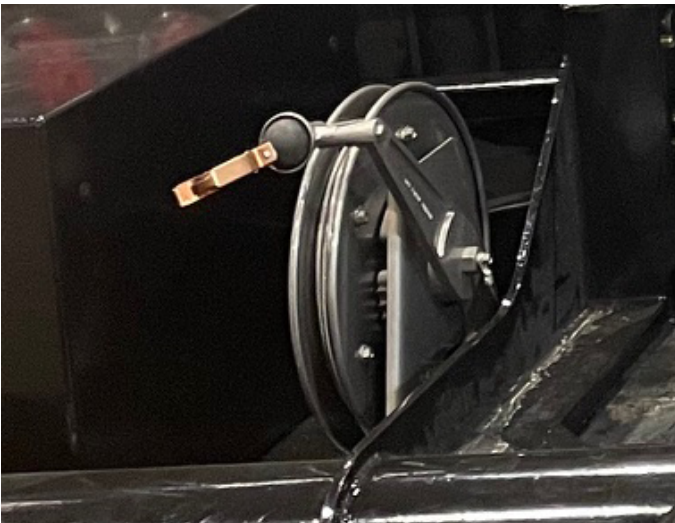
1. With the truck in park/neutral and emergency brake on, exit the truck and chock one front and one rear wheel.

WARNING

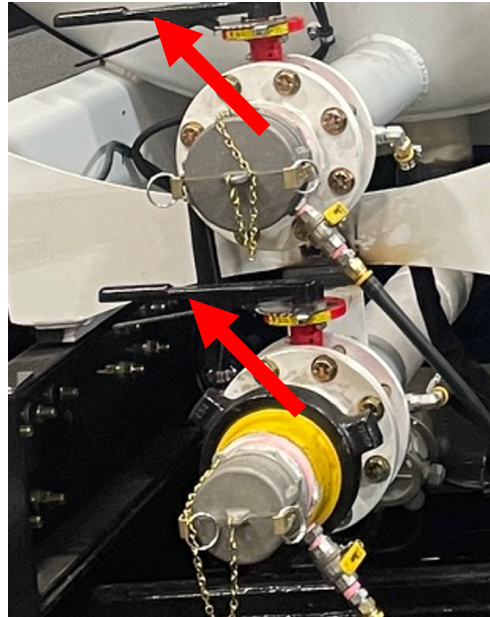
ALWAYS CHOCK THE WHEELS IMMEDIATELY UPON EXITING THE VEHICLE.



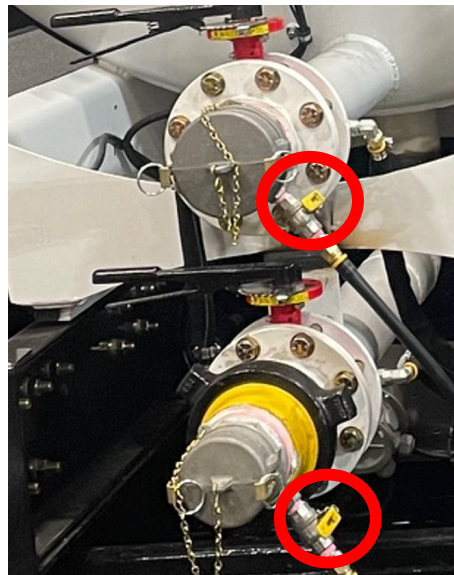
2. Ground the truck to a designated earth ground.



3. Ensure the main line valves are closed.

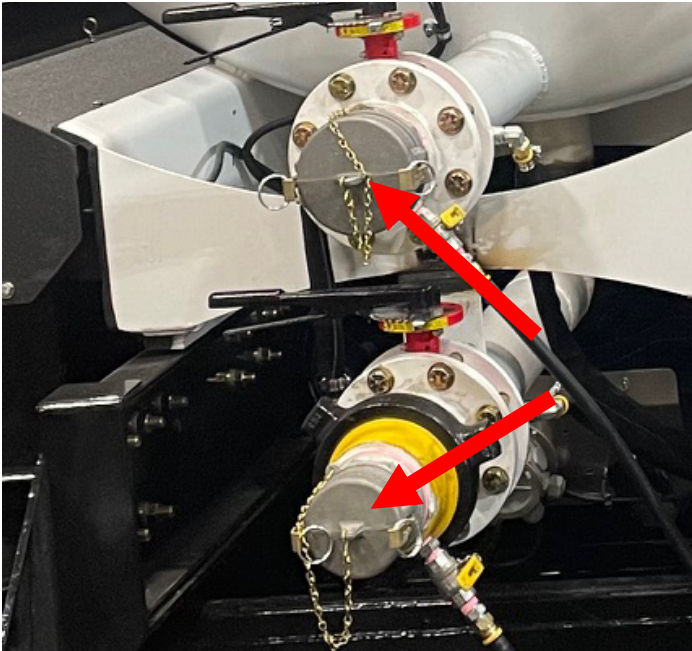


4. Release any pressure to the hose couplers by turning the ball valve on and then off for the line to be used.



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- Remove the dust cap and connect the hose to the truck. Either main tank line may be used for vacuum or pressure. It is recommended to use the top line for vacuum and the bottom for pressure.



- Connect the hose to the fill/dump location.
- Move the main operation ball valve to the neutral position (halfway between Vacuum & Pressure).



- Close all valves that prevent pressure from building.

POWER TAKE OFF (PTO)

- Return to the truck cab and flip the PTO button up. The PTO will turn on. Using the cruise control button, increase the engine idle to between 1000 to 1250 RPM.



CAUTION

IF THE PTO LIGHT IS ON WHEN THE TRUCK ENGINE IS NOT RUNNING, TURN IT OFF PRIOR TO STARTING THE TRUCK.

CAUTION

DO NOT TURN THE PTO ON WHILE THE TRUCK IS IN GEAR.

CAUTION

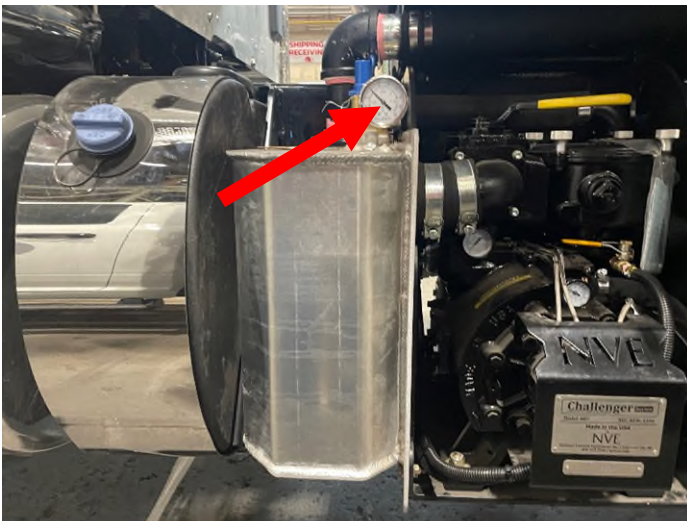
OPERATING THE SYSTEM OUTSIDE THE RANGE OF 1000 TO 1250 RPM WILL NOT INCREASE PERFORMANCE AND WILL CAUSE PREMATURE FAILURE OF THE VACUUM PUMP COMPONENTS.

PRESSURE/VACUUM

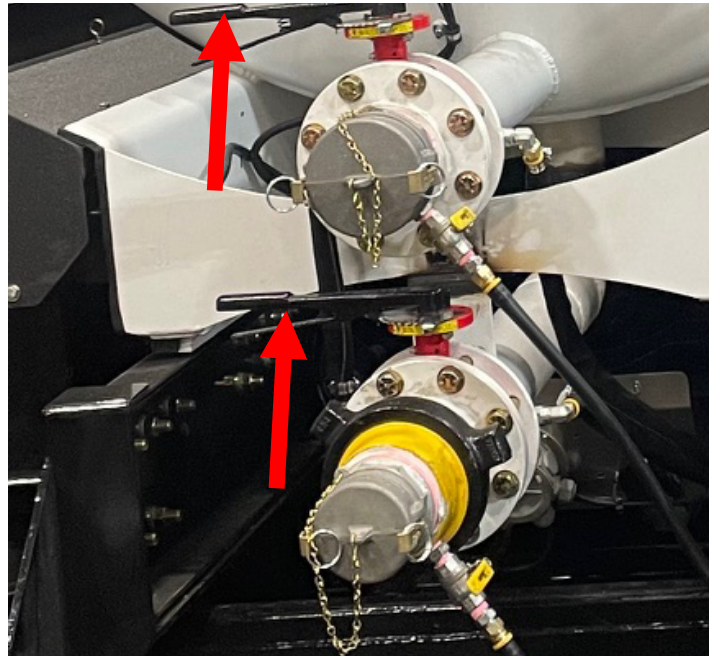
10. Move the main operation ball valve to vacuum or pressure (dependent on job function).



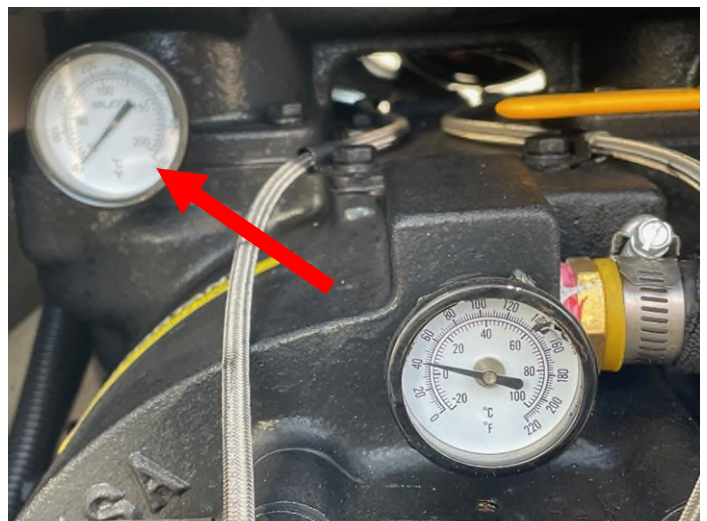
11. Check the pressure/vacuum gauge to ensure it is building to 10 psi for pressure or 22 psi for vacuum.



12. Go to the rear of the truck and turn on the main tank line valve for which the hose is connected.



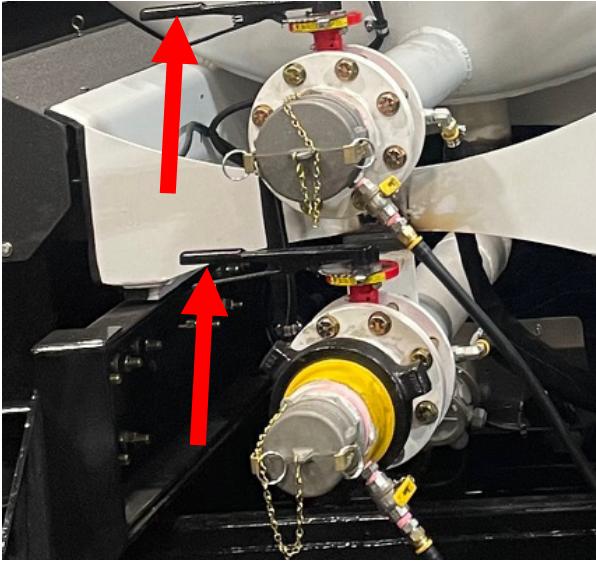
13. Monitor the vacuum pump exhaust temperature. Never allow it to exceed 375° F.



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SHUTTING DOWN

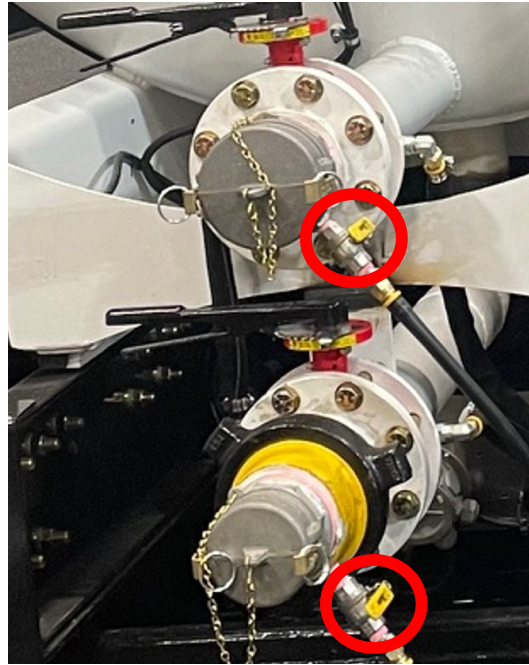
14. When it is finished, turn off the main tank line valve at the truck and then the location valve (other end of hose).



15. Move the main operation ball valve to the neutral position (halfway between Vacuum & Pressure).



16. Open and then close the hose coupler ball valve to relieve pressure.



17. Disconnect and stow the hose. Replace the dust cap.

18. Turn the PTO off.

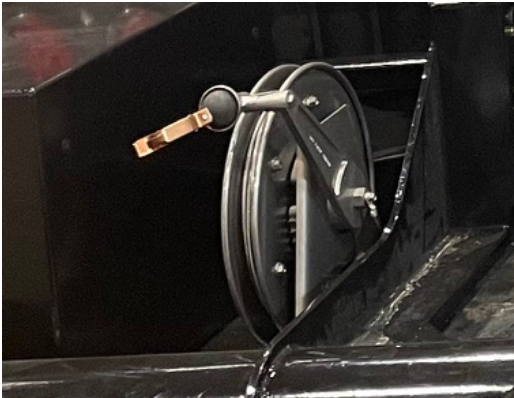


19. Exit the truck and open the 2" ball valve to relieve pressure from the pump.



20. Close ALL the ball valves.

21. Disconnect the ground wire and stow.



Section 4

Maintenance and Lubrication

Due to numerous jobs and purposes, varying environments and climates, and importance to safety, routine maintenance is highly recommended. Regular maintenance keeps the trucks functioning correctly and at optimum efficiency. The following tasks can help prevent breakdown and keep the truck on the job.

NOTE

FOR THE MOST ACCURATE MAINTENANCE FOR A SPECIFIC CHASSIS SYSTEM, REFER TO THE PRODUCT SPECIFIC USER MANUAL.

DAILY SAFETY MAINTENANCE

Tires – Check for proper inflation and tread depth.

Brake System – Routine inspections on brake pads and calipers for safe operation.

Lights – Check all lights are working and functioning correctly.

Fluids – Check that the engine oil, coolant, Hydraulic fluid, and wiper fluid are all at the right levels.

Hoses – Check for leaks and cracks, and make sure everything is securely fastened.

TOOL STORAGE

DAILY

- Ensure doors latch securely.
- Insert the key into each door and turn to lock. Ensure the doors do not open.
- Insert the key into each door and turn to unlock. Ensure the doors open.

MONTHLY

- Lubricate hinges with white lithium spray lubricant.
- Spray door locks with lock lubricant.

HYDRAULIC FLUID

FIRST 50 HOURS OF OPERATION

- Replace the fluid and filter.

DAILY

- Check the fluid level daily before use. Fill the pump oil tank with fluid that meets specification ISO VG 68. Fill the flushing oil tank with oil that meets specification ISO VG 15. The filter must be rated for 10 micron.



VACUUM PUMP

The recommended lubricant is turbine oil NVE ISO 150. Although turbine oil is recommended, any may be used if the operating temperatures do not exceed 375°F. Using non turbine oil outside of the operating range will cause overheating, lacquering and excessive wear.

BEFORE EVERY USE

- Ensure pump is not frozen. Avoid a frozen pump by feeding a small amount of diesel fuel into the pump daily.

WEEKLY AND AS NEEDED

- Wash mud & dirt off the pump to allow heat dissipation.
- Flush the pump.
- Check and clean the pump inlet filter (refer to page 17 of the manual found by clicking the link in section 2).

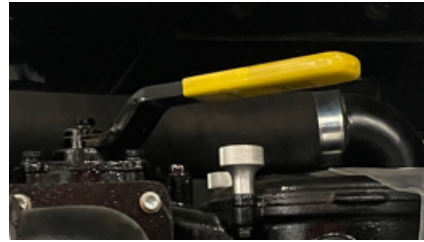
ANNUAL

- Check pump vane wear (refer to page 16 of the manual found by clicking the link in section 2).

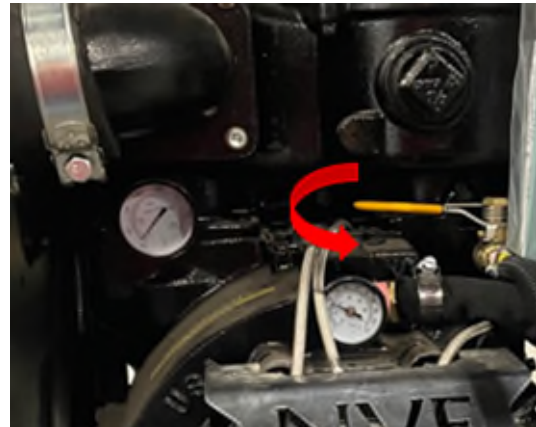
FLUSHING THE PUMP

1. With the emergency brake on, wheels chocked, grounding wire attached to an earth ground and the PTO running, place a bucket under the drain outlet.
2. Run the pump at a low RPM (engine idle).

3. Turn the operation valve to the vacuum position.



4. Open the flushing ball valve until approximately 7 fluid ounces have been consumed (observe sight tube in the reservoir) and then close.



5. Continue to run the vacuum pump in the vacuum position for one minute.
6. Turn the operation valve to neutral and turn the PTO off.



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7. Open the drain ball valves located at the bottom of the oil catch/moisture trap tanks until drained.



8. Close the drain ball valves.

POWER TAKE OFF (PTO)

Upon delivery of the vehicle and initial operation, check for leaks from any location. The PTO should be serviced at the same intervals as the transmission. The transmission maintenance should be completed as recommended by the vehicle manufacturer. The PTO is part of a system that includes the drive shaft which should also be checked at the same time.

Within the first week of use, recheck the installation of the PTO. Check for leaks and loose mounting hardware (studs, cap screws, nuts). Recheck the cable or lever connections for proper adjustment and tighten any loose

connections. At regular maintenance intervals, check adjustments and lubricate moving parts, tighten and repair the connections, mounting hardware, cable, or lever linkages.

Before daily use:

- Check for any leaks.
- Check the transmission oil level.
- Check for any dents or damage to PTO or driveshaft system.

Every 100 usage hours:

- Recheck the installation of the PTO.
- Check for leaks and loose mounting hardware (studs, cap screws, nuts).
- Recheck and tighten any loose connections.
- Check adjustments and lubricate moving parts.
- Check and retighten any bolts, linkages, or mounting hardware.
- Apply anti-seize grease to output shaft.

WINTERIZING/FREEZE PREVENTION

Frozen water inside of the system can lead to considerable damage. To prevent damage please consider the following:

- Main Tank – Drain the tank as much as possible, parking on an incline with the drain at the lowest point.
- Drain Valves – Open all drain valves.
- Hose – Remove hose. Open the hose nozzle and leave it open to drain.

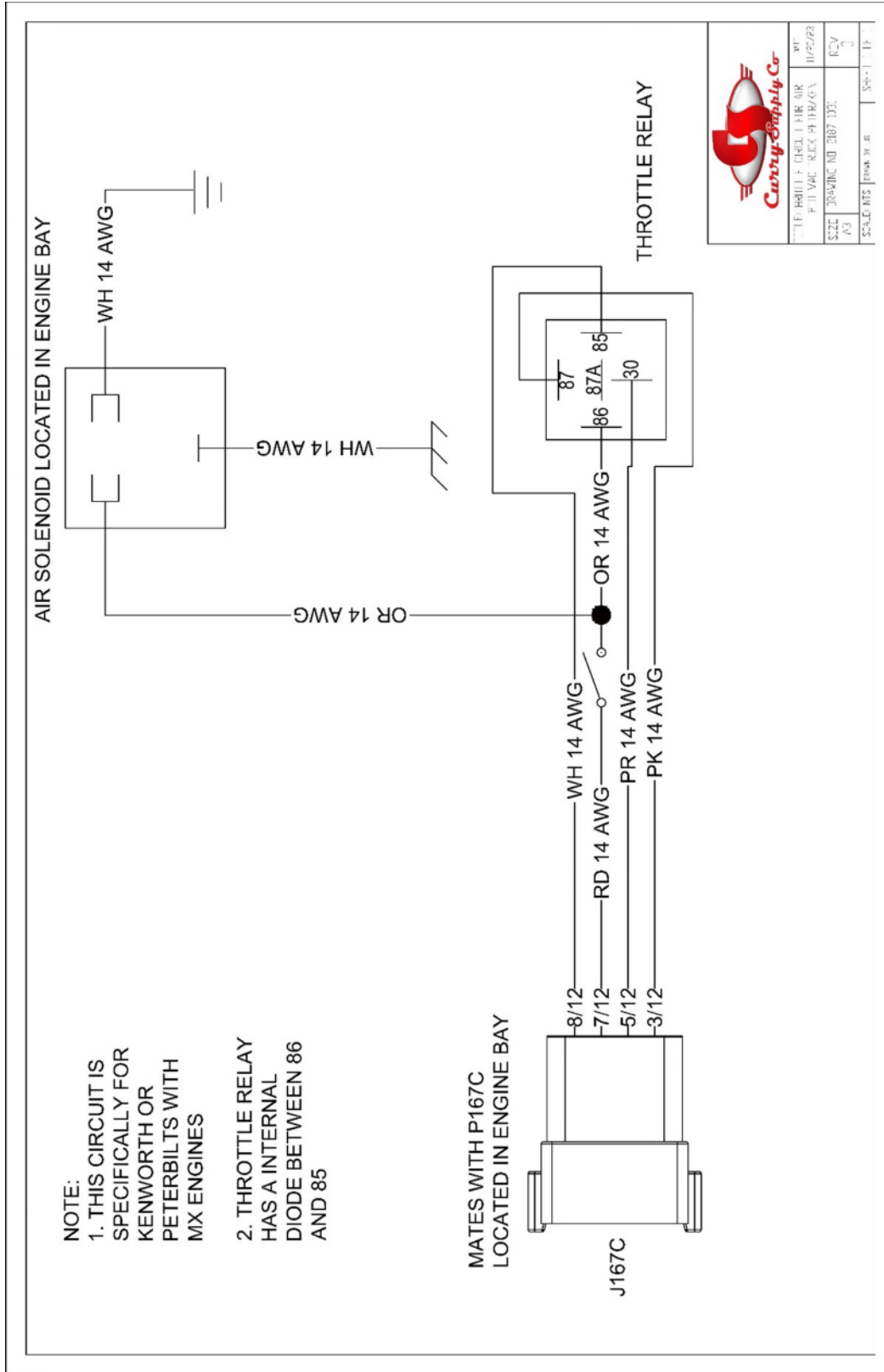
Section 5

Schematics

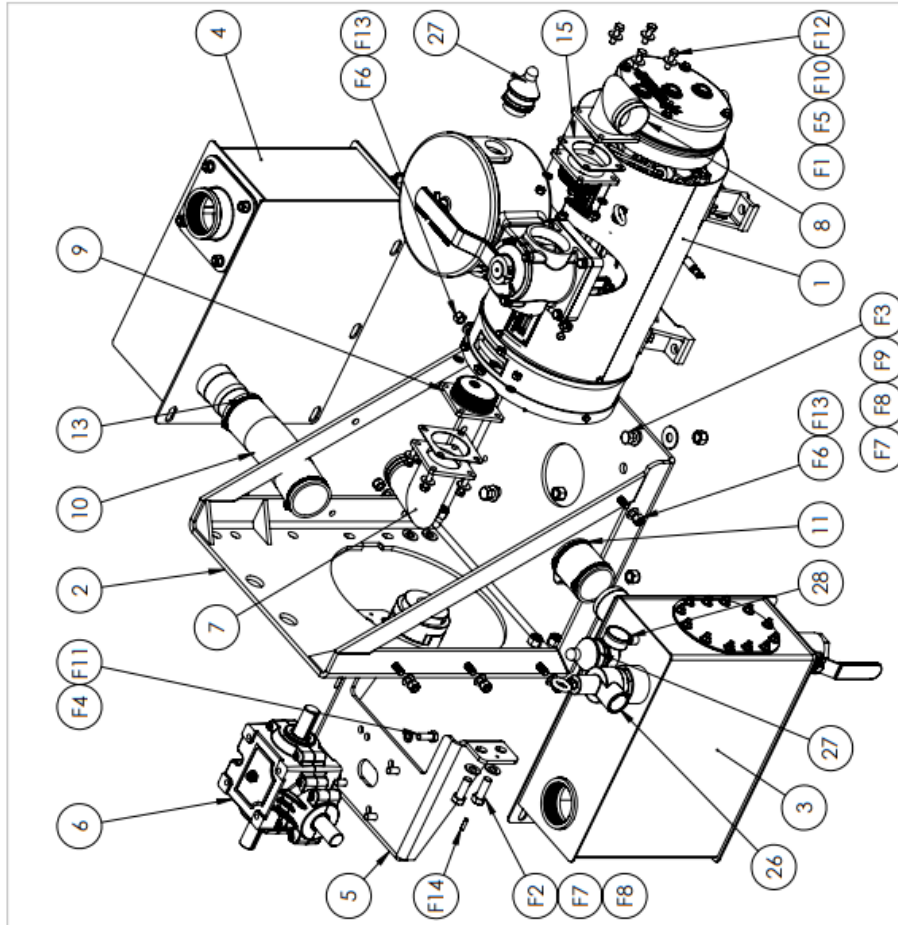
2187-1031 Throttle Circuit Air PTO Peter/Ken	Page 26
Fruitland ELIM-A-SM500LUF Vacuum Pump Diagram SCH2-1	Page 27
NVE 607 PRO Challenger Vacuum Pump Diagram SCH3-1	Page 28
NVE 607 PRO Challenger Vacuum Pump Parts List SCH3-2	Page 29
NVE 607 PRO Challenger Vacuum Pump Parts List SCH3-3	Page 30
Masport 400W Vacuum Pump Diagram SCH4-1	Page 31
Masport 400W Vacuum Pump Parts List SCH4-2	Page 32

CAUTION

PLEASE CONTACT CURRY SUPPLY COMPANY BEFORE ATTEMPTING ANY CHANGES TO THE ELECTRICAL SYSTEMS. DOING SO MAY CAUSE EQUIPMENT DAMAGE OR VOID WARRANTY.



Fruitland



ITEM #	PART #	DESCRIPTION	QTY.
1	500LUF	500LUF Vacuum Pump	1
2	RF500-SC	Pedestal Frame	1
3	S09	Secondary Shut-Off (See Parts Below)	1
4	RF500-M09C	M09 Muffler Assembly	1
5	ADM09C	Angle Drive Mount	1
6	RF500-GB400	Right Angle Gear Box	1
7	FAM09C	Flange - Muffler Side	1
8	FAS09C	Flange - Secondary Shut-Off Side	1
9	FA-3NPT-M	3" NPT Flange for Diverter	2
10	FAM09-03	Rubber Hose - Ø3" x 13" Long - Muffler Side	1
11	FAS09-03	Rubber Hose - Ø3" x 4-3/4" Long - Secondary Side	1
13	HCM-091-001	Super Clamp - SCS 86-91	4
14	F190C-1250	1/90 Coupling C/W 42mm Bore Flange - 1/4" Key & Insert	1
15	RF500-57	Gasket - Pump Flange	2
26	PRV-2"	Pressure Relief Valve - 2" NPT	1
27	VB	Vacuum Relief Valve - 1-1/2" NPT	2
28	PVG-2.5	Compound Pressure - Vacuum Gauge - 1/4" NPT	1
Hex Bolts			
F1	HBM-100-350	Hex Bolt - M10 x 1.5mm x 35mm Long - Z.P.	8
F2	HBI-400-170	Hex Bolt - 5/8"-11 NC x 1-3/4" Long - Z.P.	4
F3	5/8"X2-1/4" HEX HEAD	Hex Bolt - 5/8"-11 NC x 2-1/4" Long - Z.P.	4
F4	HBI-500-005	Hex Bolt - 1/2"-13 NC x 1-3/8" Long - Z.P.	4
Hex Nuts			
F5	RF500-137A	Hex Nut - M10 x 1.5mm - Z.P.	8
F6	HNI-500-201	Nylock Hex Nut - 1/2"-13 NC - Z.P.	8
F7	5/8" NYLOCK NUTS	Nylock Hex Nut - 5/8"-11 NC - Z.P.	8
Washers - Flat & Lock			
F8	5/8" F/W-SAE	Flat Washer, SAE (Small) - 5/8" - Z.P.	8
F9	5/8" F/W-USS	Flat Washer, USS (Large) - 5/8" - Z.P.	4
F10	RF120-94A	Lock Washer (Split) - M10	8
F11	1/2" L/W	Lock Washer (Split) - 1/2" - Z.P.	4
F12	M10-FW	Flat Washer - M10 - Z.P.	8
F13	1/2" - F/W-SAE	Flat Washer, SAE (Small) - 1/2" - Z.P.	8
Split Pins			
F14	1/4" X 1" LG SPLIT PIN	Split Pin - 1/4" x 1" Long	2

PART # ELIM A-SM500LUF

NOTES:
 1. ALL FASTENERS TO BE SUPPLIED
 WEIGHT AS SHOWN: 801 LBS

DCR #346, REV. 1: NOTES & COMPONENTS ADDED, 04/03/10, K.A.
 DCR #410, REV. 2: 05/02/11, K.A.
 DCR #477, REV. 3: ADDED TITLE BLOCK & UPDATED PART #, 25/01/13, RH
 DCR #1028, REV. 4: UPDATED HARDWARE IN BOM, 02/23/2022, LP.

NAME	DATE		
K.A.	13/03/09		
W.D.	22/02/13	TITLE:	ELIM A-SM500LUF BOM
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DECIMALS OR FRACTIONAL OR .XX ±.010 .XXX ±.005			
MATERIAL	---	SCALE:	1:12
		WEIGHT:	---
		SHEET	1 OF 2

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FRUITLAND MANUFACTURING. IT IS TO BE USED ONLY FOR THE WHOLE WITHOUT THE WRITTEN PERMISSION OF FRUITLAND MFG. IS PROHIBITED.



NVE



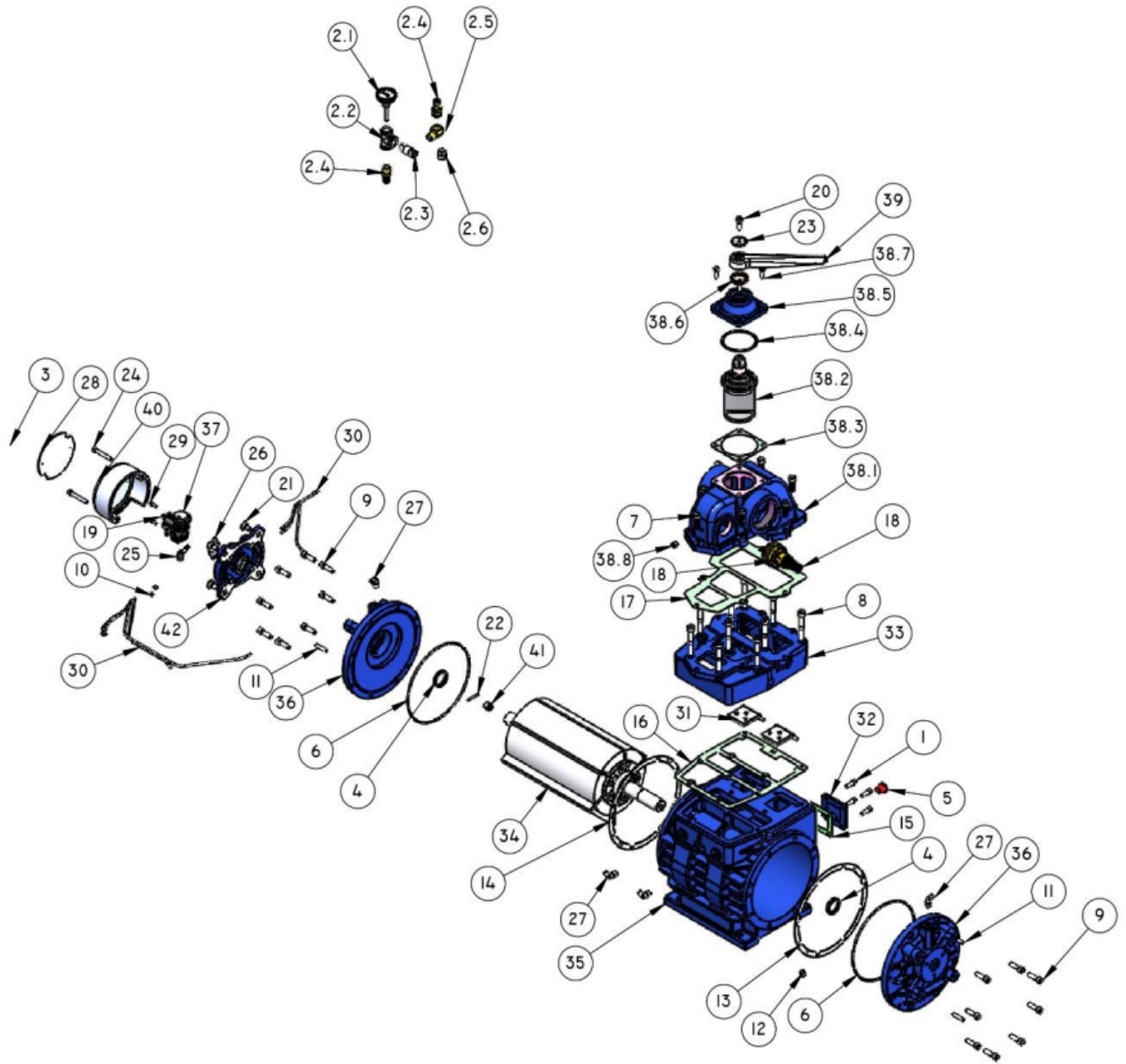
NVE

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	120-001-367-L	HOUSING 607 LIQ
2	1	120-003-002 120-003-003	ENDPLATE, CW MACHINED 607 (CW PUMP) ENDPLATE, CCW MACHINED 607 (CCW PUMP)
3	1	120-003-003 120-003-002	ENDPLATE, CCW MACHINED 607 (CW PUMP) ENDPLATE, CW MACHINED 607 (CCW PUMP)
4	2	120-004-367	GASKET ENDPLATE 607
5	1	120-005-367	ROTOR 607
6	1	120-006	KEY 3/8" X 3/8" X 2"
7	7	120-007-367	VANE 607
8	2	120-009-367	SEAL SLEEVE 607
9	4	120-018-367	SEAL 60 X 72 X 8 VITON SGL LIP
10	2	120-019-367	BEARING NJ308 C3
11	2	120-021-367	COVER PLATE, 367 WATER JACKET
12	2	120-022-367	GASKET, 367/506 COVER PLATE
13	2	120-039-367	GASKET 607 INTAKE/EXHAUST
14	1	120-041-367	CHECK VALVE 3"
15	1	120-042-367	RETAINER RING CHECK VALVE 3"
16	1	120-045	SPRING 4-WAY FTR VALVE
17	2	120-045-001	SPRING WAVE WIRE 3.50" DIA
18	1	120-046-367	SPRING CHECK VALVE
19	1	120-047	DRAIN PLUG, 3/4" NPT
20	1	120-047-004	PLUG 1.5" NPT SQ CORED GALV
21	1	120-047-1	DRAIN PLUG, 3/4" NPT MAGNETIC
22	1	120-049	BUSHING, 3/4" NPT X 1/8" FNPT
23	2	120-053	SEAL 40 X 52 X 7 VITON
24	1	120-054-001	BEARING COVER 607
25	1	120-054-002	BEARING COVER 607 OIL PUMP
26	2	120-055-367	GASKET, FRONT BEARING COVER
27	2	120-058	PLUG BRASS HEX HEAD 1/8" NPT
28	1	120-059	PLUG BRASS HEX HEAD 1/4" NPT
29	1	120-060-005	GRIP 3/8" HANDLE W/ LOGO
30	1	120-060-006	HANDLE 3/8"
31	1	120-062-002	PLUG 4-WAY FOR 3/8" HANDLE
32	2	120-063-367	FLANGE 4-WAY 3" NPT
33	2	120-064-001	O-RING, 2-154 VITON
34	2	120-064-002	O-RING, 2-214 VITON
35	1	120-064-003	O-RING, 2-240 VITON
36	1	120-064-004	O-RING, 2-265 VITON
37	1	120-065-002	TOWER 3" 607
38	1	120-079-008	GUARD NVE OIL PUMP 607/887 W/ SN TAG MOUNT
39	1	120-101-003	DECAL CW ROTATION ARROW
40	1	120-102	VALVE, DRAIN 1/8" NPT
41	1	120-103-367	DECAL, IMPORTANT, MAX OPERATING TEMP
42	1	120-105-607	NAME PLATE SS, 607

NVE

ITEM	QTY	PART NUMBER	DESCRIPTION
43	1	120-107-001	SFRIAI TAG SS
44	1	120-220	THERMOMETER, 50- 400 DEG, 2" FACE
45	1	120-220-1	THERMOMETER 220 F 1/8" NPT
46	1	120-310-001	COVER, FILTER 607/866
47	4	120-312-002	KNOB, 5/16-18UNC
48	1	120-314-001	FILTER ELEMENT 607/866
49	1	120-320-003	HOUSING FILTER 607 W/ RELIEF BOSS
50	1	123-000-004	OIL PUMP 4 PORT BIDIRECTIONAL
51	1	123-408-017	BANJO ADAPTER TO 0.250" HB
52	8	123-013-001	WASHER 3/8" SEALING NBR
53	4	123-408-014	BANJO BOLT 1/8" BSPP
54	1	320-407-005Z	OIL LINE -3 SST FEMALE JIC TO BANJO 6.75"
55	1	320-407-006Z	OIL LINE -3 SST 90 DEG JIC TO BANJO 17.5"
56	1	320-407-008Z	OIL LINE -3 SST FEMALE JIC TO BANJO 28.75"
57	1	320-407-035Z	OIL LINE -3 SST FEMALE JIC TO BANJO 32.25"
58	2	320-408-016	FITTING STR -3 MJIC X 1/8 MNPT
59	2	320-408-017	FITTING ELBOW -3 MJIC X 1/8 MNPT
60	4	320-409-003	P-CLIP, OIL LINE 1/4" X 5/16
61	1	320-LF8	DRIVE TAB
62	1	320-R31	GASKET, OIL PUMP
63	1	412-020-001	WASHER, CUP 4-WAY
200	1	OWNERS MANUAL - 607	OWNERS MANUAL - 607
201	1	320-082-001	OIL TANK, 5QT, W/ LOGO
202	1	320-083-009	OIL TANK FILTER, 100 MESH
203	1	320-083-010	FILTER FITTING, OIL TANK 1/4 NPT
204	5 FT	320-407-003	OIL LINE, BLK 1/4" ID 30R7
205	2	416-025-1WC	CLAMP, WORM, 1/4" DIA
206	6 IN	320-R102	OIL LINE, 3/8" X 1/4" ID X 6" LG
207	1	310-LPS	HOSE BARB 1/4" X 1/8" NPT STRAIGHT
301	16	FW - 3/8	FLAT WASHER, 3/8"
302	4	HHCS - 1/2-13 UNC X 1.00	HHCS - 1/2-13 UNC X 1.00
303	1	HHCS - 3/8-16 UNC X 0.75	HEX HEAD CAP SCREW - 3/8-16 UNC X 0.75
304	16	HHCS - 3/8-16 UNC X 1.75	HEX HEAD CAP SCREW - 3/8-16 UNC X 1.75
305	20	HHCS - 5/16-18 UNC x 0.75	HEX HEAD CAP SCREW - 5/16-18 UNC x 0.75
306	4	HHCS - 5/16-18 UNC X 2.00 - FULL THREAD	HEX HEAD CAP SCREW - 5/16-18 UNC X 2.00 FULL THREAD
307	16	HHCS - 5/16-18 UNC x 1.00	HEX HEAD CAP SCREW - 5/16-18 UNC x 1.00
308	4	LW - 1/2	LOCK WASHER, 1/2
309	1	LW - 3/8	LOCK WASHER, 3/8"
310	52	LW - 5/16	LOCK WASHER, 5/16"
311	6	RVT 3/32 D X 1_4L SS	BLIND RIVET, 3/32 DIA X 1/4 GRIP, SS
312	2	SHCS - 1/4-20 UNC X 0.50	SHCS - 1/4-20 UNC X 0.50
313	8	SHCS - 5/16-18 UNC X 1	SHCS - 5/16-18 UNC X 1

Masport



Item	Code	Description	Qty
1	11063	Bolt - M8 x 25	4
2.1	21076	Thermometer	1
2.2	27463	Tee - 1/2"	1
2.3	30254	Nipple - 1/2" x 2"	1
2.4	27101	Hose Insert - 1/2"	2
2.5	27010	Elbow - 1/2"	1
2.6	27301	Plug - 1/2"	1
3	500806	Rivet - 2.5 x 6	2
4	501015	Seal - 35 x 47 x 7	2
5	501506	Plug	1
6	501677	O-Ring - 9 1/4" x 1/8"	2
7	501686	Bolt - M12 x35	7
8	501965	Bolt - M12 x 80	10
9	501966	Bolt - M10 x 35	16
10	503054	Cable Tie	2
11	503261	Dowel Pin - 8 x 40	4
12	503416	Plug - 1/4"	1
13	542011	Shim - End Cover .002"	*
14	542012	Shim - End Cover .002"	*
15	568232	Gasket - Side Plate	1
16	568805	Gasket - Manifold	1
17	568884	Gasket - Valve	1
18	569023	Vacuum Relief Valve	1
19	569946	Oil Pump Fitting	4
20	569538	Bolt - M10 x 25	1
21	569663	Bolt - 1/2" x 1"	4
22	569666	Roll Pin - 4 x 40	1
23	569724	Indicator Washer	1

Item	Code	Description	Qty
24	569849	Bolt - M8 x 60	2
25	569859	Oil Pump Supply Fitting	1
26	569926	Shim - Oil Pump	*
27	569949	Fitting - Oil Line	4
28	569961	Pump Model Tag	1
29	577711	Bolt - M6 x 16	2
30	600293	Oil Line	*
31	968026	Check Valve Flap	2
32	968231	Side Plate	1
33	968846	Manifold	1
34	968918	Vane Pack	1
35	968959	Cylinder	1
36	968971	End Cover	2
37	969879	Oil Pump	1
38.1	969792	Valve Body	1
38.2	969774	Spool	1
38.3	568044	Gasket - Valve Cap	1
38.4	569867	Wave Washer	1
38.5	969776	Valve Cap	1
38.6	501015	Seal - 35 x 47 x 7	1
38.7	11063	Bolt - M8 x 25	4
38.8	503416	Plug - 1/4"	1
39	969827	Handle	1
40	969828	Oil Pump Cap	1
41	969829	Oil Pump Coupler	1
42	969931	Oil Pump Mount	1
43	969984	Rotor Assembly	1

SECTION 6

Troubleshooting

PROBLEM	POSSIBLE CAUSE	REMEDIES
Truck cranks with the key switch but will not run.	The theft deterrent disable switch is in the "ON" position (if equipped).	Turn the theft deterrent switch off.
The truck engine runs erratically or stalls when controls are operated.	The idle speed is too slow.	Increase the engine speed.
	The engine is still cold.	Wait until the truck engine is warm.
	The engine needs a tune up.	Call Curry Supply Company for service 800.345.2829.
The tool compartment key will not go into the lock.	Shield is blocking insertion of the key.	Slide shield out of the way with the tip of the key while pushing the key into the lock.
	The lock is full of ice.	Spray lock with de-ice spray.
	The key is the wrong one for the lock.	Use the correct key.
No response from hydraulic controls	The truck engine is not running.	Start the engine.
	PTO is not engaged.	Engage the PTO.
	Low hydraulic fluid.	Add hydraulic fluid.
	Relief valve is set too low.	Call Curry Supply Company for service 800.345.2829.
	Pinched pressure or return hydraulic line.	Repair or replace.
	Defective hydraulic pump.	Call Curry Supply Company for service 800.345.2829.
	Pressure compensated pump set too low.	Call Curry Supply Company for service 800.345.2829.

Slow hydraulic operations.	Valve spools are not fully open.	Call Curry Supply Company for service 800.345.2829.
	Oil is too heavy or cold.	Replace oil to correct viscosity for operating range temperature.
	Low hydraulic fluid.	Add fluid.
	System operating pressure or main system relief set too low.	Call Curry Supply Company for service 800.345.2829.
	Dirt or foreign matter in hydraulic system, filters valves, etc....	Call Curry Supply Company for service 800.345.2829.
	Pinched pressure or return hydraulic line.	Repair or replace.
	Engine speed is too low.	Increase engine speed to 1250 RPM. DO NOT EXCEED 1250 RPM.
	Excessive leakage in pump or control valve due to wear.	Call Curry Supply Company for service 800.345.2829.
The hydraulic system is overheating.	The main system relief valve is set too low or is open because of contamination.	Call Curry Supply Company for service 800.345.2829.
	The hydraulic system operating pressure is too high.	Call Curry Supply Company for service 800.345.2829.
	Excessive hydraulic oil flow because of improper PTO ratio or the truck engine is operating at an excessive speed.	Reduce engine speed. If it is still overheating, refer to the manufacturer's service and maintenance manual.
Vacuum pump is overheating.	No oil in pump.	Fill tank to correct level.
	Oil adjustment set too lean.	Refer to manual listed in section 2.
	RPM too fast.	Lower engine idle.
	Prolonged operation at excessive vacuum or pressure levels.	Shut off system and let cool. Restart and run within recommended levels.
	Dirty pump.	Clean the pump.
	Inlet filter is clogged.	Clean the filter.

Vacuum pump is using too much oil.	Oil pump set too rich.	Refer to manual (link in section 2).
	Leaving pump under vacuum between jobs.	Stop leaving pump under vacuum between jobs.
	Product running through pump.	Call Curry Supply Company for service 800.345.2829.
Vacuum pump doesn't turn.	Broken vane or bearing.	Call Curry Supply Company for service 800.345.2829.
	Pump is frozen.	Thaw the pump.
	Problem in the drivetrain.	Call Curry Supply Company for service 800.345.2829.
No vacuum.	Vacuum pump main operation valve is in neutral.	Move valve to suction.
	Worn seals or vanes in the vacuum pump.	Call Curry Supply Company for service 800.345.2829.
	Vacuum pump not turning fast enough.	If PTO is also not turning within 1000-1250 RPM, increase engine idle.
	Clogged vacuum pump check valve or suction valve.	Check and clean valves.
	Leak in the vacuum pump tank and or fittings.	Tighten fittings. Punctured or cracked tank, replace.
	Collapsed hose between the vacuum pump and shutoff valves.	Replace hose.
	Vacuum pump inlet filter clogged.	Clean filter.

Section 7

Warranty & Proprietary Information

Curry Supply Company warrants products designed and manufactured by Curry Supply Company to be free from defects in material and workmanship under proper use and maintenance. Products must be installed and operated in accordance with Curry Supply’s written instructions and capacities. All warranty periods will begin on the in-service date as defined in this document. This warranty shall cover the following Curry Supply Products:

	1 Year	2 Years	Variable
On Road Water / Flatbed / Crash Attenuator / Lube Skid			
Curry Manufactured Components		✓	
Paint Coverage on Curry Manufactured Parts	✓		
Parts	✓		
Repair Labor	✓		
Off Road / Dump / Industrial Carrier / Vacuum / Winch / Railroad			
Tank	✓		
Tank Exterior Paint Coverage	✓		
Parts	✓		
Repair Labor	✓		
Mechanics			
Body (Refer to Manufacture Warranty)			✓
Crane (Refer to Manufacture Warranty))			✓
Paint Coverage (Refer to Manufacture Warranty)			✓
Parts (Refer to Manufacture Warranty)			✓
Repair Labor (Refer to Manufacture Warranty)			✓
Lube			
Body (Refer to Manufacture Warranty)	✓		
Tanks (Refer to Manufacture Warranty)			✓
Parts	✓		
Repair Labor	✓		
Paint Coverage	✓		
Utility Lift			
Body (Refer to Manufacture Warranty)			✓
Lift (Axion)			✓
Parts	✓		
Repair Labor	✓		
Body Paint Coverage	✓		



Definitions

Curry Supply Manufactured Components/Structures – Includes any structural weldment or load bearing support structure manufactured by Curry Supply Company.

Rust Through on Curry Supply Components/Structures – Rust Through is defined as a hole in the metal caused by corrosion. Excluded is corrosion caused by external caustics, including but not limited to improper cleaning material, road salt and other chemicals left on the structure for extended periods of time.

Paint Coverage on Curry Supply Manufactured Parts – Curry Supply guarantees that exterior paint will not fail in terms of adhesion, blistering or unreasonable loss of color or gloss for a 1-year period. Excluded is damage such as chips, dents, scratches, tank interior coating, and corrosion due to caustic chemicals (e.g. Brine Solution / Leachate) and dirt build-up. Regular cleaning and maintenance of the product to remove external factors is expected to keep this warranty in force.

Vendor Supplied Components/Structures – Products purchased by Curry Supply from outside vendors. These items shall be covered by the warranty offered by the respective manufacturer only. Curry Supply does not obligate itself to any such warranty.

Warranty Process

Curry Supply’s obligation under this warranty is limited to, and the sole remedy for any such defect shall be the repair and/or replacement (at Curry Supply’s option) of the unaltered part and/or component in question. Curry Supply after-sales service personnel must be notified by telephone, email, or letter of any warranty applicable damage within fourteen (14) days of its occurrence. If possible, Curry Supply will ship the replacement part within 24 hours of notification by the most economical, yet expedient, means possible. Expedited freight delivery will be at the expense of the owner.

Warranty claims must be submitted and shall be processed in accordance with Curry Supply’s established warranty claim procedure. Curry Supply after-sales service personnel must be contacted prior to any warranty claim. A return materials authorization (RMA) may be issued to the claiming party prior to the return of warranty parts. Parts returned without prior authorization will not be recognized for warranty consideration. All damaged parts must be returned to Curry Supply freight prepaid; freight collect returns will be refused. Freight reimbursement of returned parts will be considered as part of the warranty claim.



24-Dec-24

Warranty Repair

Warranty service will be performed by any Curry Supply factory, Curry Supply mobile technician, Curry Supply authorized service partner, or by the affected owner. At the time of requesting warranty service, Curry Supply after-sales service personnel will verify date of delivery of the product. The owner shall be obligated to pay for any overtime labor requested of the servicing company by the owner, any field service call charges, and any towing and/or transportation charges associated with moving the equipment to the designated repair/service provider.

All obligations of Curry Supply and its service providers shall be voided if someone other than an authorized Curry Supply provider performs other than routine maintenance service without prior written or verbal approval from Curry Supply. In the case repair work is performed on a Curry Supply-manufactured product, original Curry Supply parts must be used to keep the warranty in force. The warranty may also be voided if the product is modified or altered in any way not approved, in writing, by Curry Supply.

Warranty Limitations/Responsibilities

This warranty covers only defective material and workmanship. It does not cover depreciation or damage caused by normal wear and tear, accident, mishap, untrained operators, or improper or unintended use. The owner has the obligation of performing routine care and maintenance duties as stated in Curry Supply's written instructions, recommendations, and specifications. Any damage resulting from owner/operator failure to perform such duties shall void the coverage of this warranty. The owner will pay the cost of labor and supplies associated with routine maintenance.

The only remedies the owner has in connection with the breach or performance of any warranty on the Curry Supply product specified are those set above. In no event will Curry Supply, or any company affiliated with Curry Supply, be liable for business interruptions, costs of delay, or for any special, indirect, incidental, or consequential costs or damages. Such costs may include, but are not limited to, loss of time, loss of revenue, loss of use, wages, salaries, commissions, lodging, meals, towing, hydraulic fluid, or any other incidental cost.

All products purchased by Curry Supply from outside vendors shall be covered by the warranty offered by that respective manufacturer only. Curry Supply does not participate in, or obligate itself to, any such warranty.

24-Dec-24

Curry Supply reserves the right to make changes in design or improvement upon its products without imposing upon itself the same upon its products theretofore manufactured.

This warranty will apply to all Curry Supply manufactured components/structures and upfit workmanship shipped from Curry Supply's factory. The warranty is for the use of the original owner only and is not transferable without prior written permission from Curry Supply.

Curry Supply After-Sales Contact Information:

Phone: (800) 345-2829

Email: service@currysupply.com

Mailing Address: 1477 DeGol Industrial Drive, Hollidaysburg, PA 16648

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. REMEDIES UNDER THIS WARRANTY ARE LIMITED TO THE PROVISION OF MATERIAL AND SERVICES, AS SPECIFIED HEREIN. CURRY SUPPLY COMPANY IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

EXCEPT AS STATED, THERE IS NO WARRANTY, EXPRESS OR IMPLIED, IN CONNECTION WITH THE DESIGN, MANUFACTURE, SALE OR USE OF THE MACHINERY, ACCESSORIES, EQUIPMENT AND PARTS SOLD BY CURRY SUPPLY CO. CURRY SUPPLY COMPANY'S LIABILITY ON ITS WARRANTY SHALL IN NO EVENT EXCEED THE COST OF THE ITEM OF SALE.



For technical help or parts, please have the serial number available and call our customer service 800.345.2829