

SINCE 1932

# **OPERATORS MANUAL**

# OFF-ROAD ARTICULATED WATER TRUCKS

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



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# Introduction & Safety Messages

### **CONTACT US**

Curry Supply Company 1477 Degol Industrial Drive, Hollidaysburg, PA 16648 <u>service@currysupply.com</u> 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 Articulating Off-Road Water 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 <u>service@currysupply.com</u>.

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.



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



#### WARNING

HIGH PRESSURE WATER. DO NOT OPERATE THE SPRAY VALVES OR CANNON UNTIL ALL THE PERSONNEL ARE AT A SAFE DISTANCE FROM THE VEHICLE.



#### WARNING

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



#### WARNING

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





# System Descriptions

# SIDE VIEW OF TRUCK



**REAR VIEW OF TRUCK** 



FRONT VIEW OF WATER TANK



# **SPRAY BAR**



Located on the Rear and Front (optional) of the vehicle, this transfers water from the tank to the spray heads.

### **SPRAY HEADS**



Located on the spray bars and top front of the water tank, this is where water sprays from.

FILL TUBE



Located on the front or rear of the water tank, this tube is used to fill the tank with water. The valve on the bottom will attach to a hose, with the other end attached to a water source.



### WATER TANK FILL OPENING



Located on top of the tank, this is where water enters the tank by either hydrant fill or a water dump station.

#### **HOSE & HOSE REEL**



Located on the rear of the water tank, equipped with a 50' 1-1/2" hose.

#### WATER PUMP



Located under the rear of the water tank, this pumps water through the tank and spray heads.

#### **HOSE NOZZLE**



Located on the end of the hose, water spray is controlled by a twist head control.



#### **DUMP VALVE**



Located on the rear, under the water tank, this will drain water from the tank.

### **TOUCHPAD CONTROLLER**



Located inside the cab, this allows the operator to control different modules installed on the truck.

#### SIGHT TUBE INDICATOR



Located on the rear of the water tank, this is a clear tube that displays the water level inside the water tank.

### WATER CANNON (if installed)

The water Cannon is located on top, between the water tank and cab. The direction of the cannon is controlled by a joystick in the cab.



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# **Normal Operations**

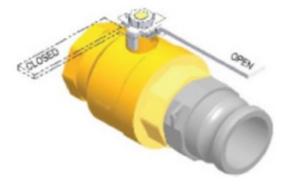
This section provides the vehicle operator with step-by-step operating procedures for the installed systems. A quick reference operations card will be supplied and placed into the cab.

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

# **VALVE OPERATION**

Valves can be opened or closed by hand to allow or restrict water flow.

OPEN – Handle aligns with the tube or hose. CLOSED – Handle is perpendicular, or at 90 degrees, with the tube or hose.



# TANK FILLING OPERATIONS

#### CAUTION

FILL TANK WITH FRESH NON-POTABLE WATER ONLY. SALTWATER AND OTHER CHEMICALS COULD DAMAGE THE TANK INTERIOR COATING

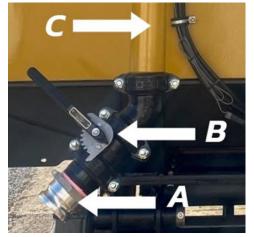
### **HYDRANT TANK FILL**

- 1. Ensure that the truck is in park and parking brake is ON.
- 2. Ensure the tank fill opening is clear of obstruction.





3. Connect the hose from the water source to the hydrant fill tube connector (A).



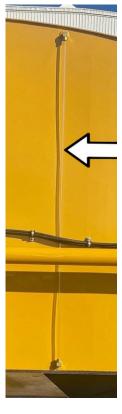
- Rotate the fill valve handle (B) to "OPEN".
- 5. Turn the water ON from the water source.
- 6. Water will begin to flow through the fill tube (C) and into the fill hole on top of the tank. The operator can view the water level by viewing the clear sight tube located on the rear of the tank.

7. Once the water tank is filled to the desired level, turn OFF the water source.

#### CAUTION

FILL TANK TO AT LEAST 1/4 FULL TO OPERATE ANY WATER OPERATIONS

- 8. CLOSE the fill valve handle.
- 9. Disconnect the hose from the hydrant fill tube connector.
- 10. OPEN valve fill handle to drain any excess water to avoid freeze/water damage.





# **DISPENSE OPERATIONS**

# TOUCHPAD CONTROLLER OPERATION



There are (2) output screens standard on the Curry Supply touchpad. On the bottom right of the touchpad is an button labeled "AUX 1". By pushing this button, the screens are switche to show all the outputs. A (O) represents the "OFF" position, while a (1) represents "ON".



To turn on a feature, press the desired button once. A green indicator light will light up and the output number will change from a "0" to a "1".



If equipped with a level indicator, the "AUX 1" button can be pressed twice to cycle to the level indicator screen. The level indicator shows the water level inside of the tank.

#### NOTE

THIS IS PRE-PROGRAMMED INTO THE SYSTEM PRIOR TO SHIPPING. IF A LEVEL KIT IS ORDERED AFTER PURCHASING A TANK, CONTACT CURRY SUPPLY FOR CONTROL SET UP.

#### **MOBILE OPERATIONS**

#### CAUTION

TRUCK ENGINE MUST BE AT IDLE SPEED WHEN ACTIVATING OR DEACTIVATING THE WATER PUMP. FAILURE TO DO SO MAY CAUSE PERMANENT WATER PUMP DAMAGE AND VOID WARRANTY.

#### NOTE

CHECK THE WATER LEVEL BEFORE OPERATION WITH THE TRUCK IN PARK.

- 1. With the truck in park and the parking brake engaged, start the engine.
- OPEN a spray head by pressing the button, or moving the slide switch, to the OPEN position.



3. Turn ON the "WATER PUMP"



- Put the truck in gear/drive and pull forward.
- 5. Water will begin to spray from the selected spray head as RPM's rise.



#### CAUTION

DO NOT EXCEED THE RECOMMEDED RPMS LABELED ON THE DASH.

#### NOTE

IF THERE IS NO RPM LIMIT DISPLAYED ON THE DASH, CALL CURRY SUPPLY BEFORE OPERATING.

#### SWITCHING SPRAY HEADS

 Following the previous steps, with currect spray head still OPEN, OPEN a newly desired spray head at the SAME TIME.

#### CAUTION

AT LEAST ONE SPRAY HEAD SHOULD BE OPEN WHILE THE WATER PUMP IS ON.

#### NOTE

MULTIPLE SPRAY HEADS CAN BE OPEN SIMUTAENOUSLY. HOWEVER, OPERATING MORE THAN 2 AT THE SAME TIME WILL DRASTICALLY REDUCE WATER PRESSURE.

 Once finished with previous spray head, CLOSE it, while leaving the new spray head OPEN.

#### **CLOSING SPRAY HEADS**

- When spray operation is completed, the spray heads will need to be CLOSED.
- 2. Slow the vehicle to under 1000 RPMs.
- While a spray head is still OPEN, turn OFF the "WATER PUMP".
- 4. CLOSE the spray heads that are open.

### WATER CANNON (if installed)

If installed, the "Water Cannon" is activated the same way that a spray head is. It can be used while mobile or stationary.

1. While the vehicle is below 1000 RPMs,

OPEN the "WATER CANNON" spray head on the touchpad.



2. Turn ON the "CANNON POWER" button to enable

operation of the cannon joystick.



- Turn ON the "WATER PUMP" on the touchpad.
- Raise the RPMs by either driving forward or by using cruise control buttons. Water will begin to spray from the water cannon.
- The direction of the stream is controlled by the joystick inside the cab.
- The spray width can be changed by using the thumb button, opening or closing the cannon nozzle.



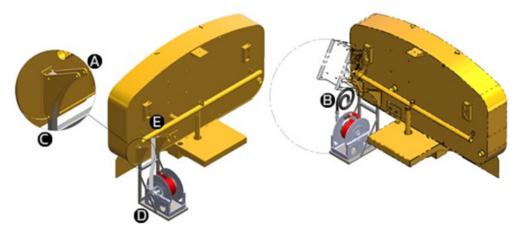
- 7. When spraying is complete, turn OFF the Water Pump
- 8. Turn OFF "CANNON POWER"
- 9. Turn OFF "WATER CANNON"

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### WATER HOSE / HOSE REEL

The hose reel may be shipped in a stowed position (see diagram below (B). Using a lifting device (crane, fork truck, etc.) secure a chain to the reel platform, and to the lifting device. Once the platform is secure, remove the bolts holding the reel platform in Plate (A), and lower the platform into the operating position (D). With the reel in operating position, insert the bolts from (A) into the (C) location to secure the reel platform. Connect the hose from the reel to the rear spray bar (E) before using.

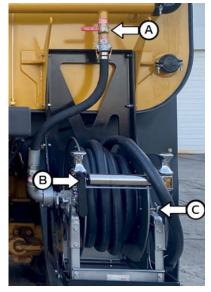


- 1. With the truck in park, and the parking brake engaged, start the engine.
- Turn ON the "HOSE REEL" valve on the touch pad.



- 3. Turn ON the "Water Pump"
- 4. At the rear of the truck, ensure the hose is secured to the spray bar.
- 5. Ensure the hose nozzle is CLOSED (head rotates to OPEN and CLOSE).
- OPEN the ball valve (A) above the reel to allow water to fill the hose.
- Unlock the hose reel by pulling the spring loaded locking pin (C) and unravel the hose to desired length.
- Rotate the hose nozzle to OPEN the hose. The spray can be adjusted by opening it more or less.

- 9. When spraying is complete:, CLOSE the hose nozzle.
- 10. CLOSE the ball valve to the spray bar
- 11. Reel in the hose using the crank (B)
- 12. Lock the hose reel (C).
- 13. Turn OFF the Water Pump on the touchpad.
- 14. Turn OFF the Hose Reel Valve.





# <u>DRAINING OPERATIONS</u> DUMP VALVE / TANK DRAIN



The Gravity Dump is the primary method to drain the tank completely. To activate the dump valve, press the dump valve button on the touchpad.



#### NOTE

THE GRAVITY DUMP DOES NOT NEED THE WATER PUMP TO BE ON FOR OPERATION.

In the event that there is no power, the dump valve can be activated manually by pushing in and rotating the black knob. Rotating the knob counter clockwise will open the valve, and rotating it clockwise will close it.

#### CAUTION

DO NOT MANUALLY OPEN THE DUMP VALVE UNLESS THERE IS NO POWER AT TOUCHPAD.

#### CAUTION

DO NOT OPERATE THE MANUAL OVERRIDE WHEN THE ACTUATOR IS TURNING







# Maintenance & Lubrication

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

#### 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 engine oil, coolant, hydraulic fluid, and wiper fluid are at proper levels.

Hoses – Check for leaks, cracks, and that they are fully secure.

#### CAUTION

#### WITHIN THE FIRST WEEK OF OWNING CHECK THE TORQUE ON THE BOLTS OF WATER PUMP

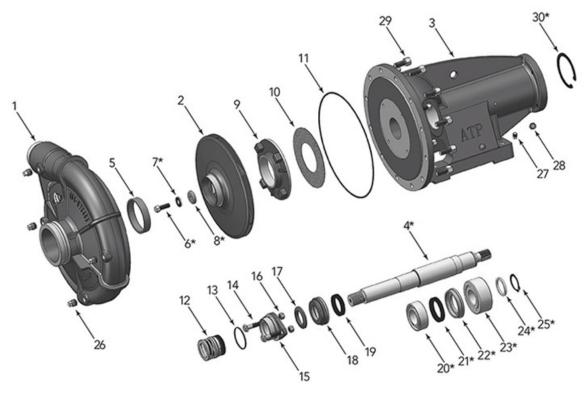
### WATER PUMP ROUTINE MAINTENANCE

A well-maintained pumping system will extend the life of the unit and require fewer repairs. This means less down time, which could be extremely critical when a constant delivery of liquid is required. A routine maintenance and inspection schedule should be set up on a weekly, quarterly, and annual basis with records kept of these actions.

The following is a breakdown list of maintenance that is recommended to be completed:



#### WATER PUMP DIAGRAM



- 1. Volute
- 2. Impeller
- 3. Hydraulic Bearing Frame
- 4. Splined Shaft Kit
- 5. Wearing Ring
- 6. Cap Screw
- 7. Lock Washer
- 8. Impeller Washer
- 9. Balance Ring
- 10. Balance Ring Gasket
- 11. Volute Gasket
- 12. Mechanical pump Seal
- 13. O Ring
- 14. Gland bolt
- 15. Shaft Seal Retainer

- 16. Hex Nut
- 17. Water Slinger
- 18. Inner bearing Cap
- 19. Oil Seal
- 20. Ball Bearing
- 21. Oil Seal
- 22. Outer Bearing Cap
- 23. Ball Bearing
- 24. Shaft Thrust Ring
- 25. Pump Retaining Ring
- 26.1/2" Pipe Plug
- 27. 1/4" Pipe Plug
- 28. Grease Fitting
- 29. Hex Cap Screw
- 30. Retaining Ring



### WEEKLY MAINTENANCE (~250 miles)

<u>Vibration</u>: All rotating machines can be expected to produce some vibration. However, excessive vibration can reduce the life of the unit. If the vibration seems excessive, discontinue operation, determine the cause, and correct the issue.

<u>Noise</u>: When the unit is operating under load, listen closely for unusual sounds that might indicate the unit is in distress. Determine the cause and correct the issue.

<u>Operating Temperature</u>: During operation, heat is dissipated from the pump bearings and the driver. After a brief period of time, the surface of the pump bracket will be quite warm (as high as 150° degrees F), which is normal. If the surface temperature of the pump bracket or driver is excessive, discontinue operation, determine the cause of the temperature rise, and correct the issue. Bearings will run hotter for a brief run-in period after packing which is normal. However, worn bearings will cause excessive temperatures and need to be replaced. The pump unit is cooled by the water following through it and will normally be at the temperature of the pumping liquid.

<u>Rope Packing</u>: After a brief period of operation, verify that the stuffing box area and gland are not hot. If heating is detected, loosen the gland nuts evenly until water is just running out of stuffing box in a DROPLET form. Water must not be streaming or spraying out (water drops should be 40–60 drops a minute). Verify cool operation periodically. Adjust gland nuts EVENLY as necessary for lubrication and cooling of the packing. If packing has been tightened to the limit of the packing gland travel, additional packing is necessary.

#### CAUTION

IF THE UNIT IS EQUIPPED WITH A ROPE SEAL WATER PUMP THAT REQUIRES A MINIMUM DRIP. DO NOT OVER TIGHTEN THE SEAL. MECHANICAL SEALS WILL NOT DRIP

Mechanical Seal: Inspect seal for leakage. There should be no leakage from mechanical seal.

Suction Line: Inspect line and screen for flow obstruction.



# QUARTERLY (~3,000 miles)

<u>Pump and Piping Connections</u>: Inspect all system piping connections for leakage or misalignment. Misalignment of pipe connections to the pump will put excessive strain on the pump case and can cause damage to internal components of both the pump and motor. If stress on the pump case is suspected, adjust pipe supports to correct. For flange connections, misalignment can be checked by shutting down the pump, and removing the pipe flange bolts on the pump connections. If the mating flanges come apart or shift, there is pressure at the connection(s) and adjustments should be made to the piping supports until flanges mate without force. This procedure can be done throughout the piping system.

- Check pump foundation for soundness and see that all hold-down bolts are secure.
- Inspect packing or mechanical seal for possible replacement. Examine shaft sleeve, if present, for wear and replace it if necessary.
- Inspect pumping plant panel for signs of wear (i.e.: replace pitted contactors, etc.., as needed).
- Check pump and/or motor bearings for signs of wear. Repack or replace as required.

### ANNUALLY (~12,000 miles)

- Inspect the pump and entire pumping system for signs of wear.
- Inspect system valves and screens.
- Check electric motor windings for degradation, rewind if necessary.
- Inspect impeller, volute case, and seal chamber for signs or excessive wear or corrosion.
- Liquid End of pump requires no lubrication.
- Drain compressor to reduce condensation.

Wear rings, packing rings, and models using a mechanical shaft seal, are lubricated by the liquid being pumped.

#### CAUTION

#### DO NOT RUN DRY! LUBRICATION IS NEEDED TO AVOID DAMAGE.

<u>BEARING FRAME</u>: Add approximately 2 ounces of a lithium based NGLI No. 2 extra pressure ball bearing grease to each bearing during quarterly inspection.

# **NOTE** GREASE FITTING IN PACKING AREA IS FOR PRIMING

HOSE REEL: Grease hose reel quarterly to avoid friction and rust build up.



### WATER CANNON (If Installed)

The complete monitor and control system should be inspected during each apparatus check. Careful inspection for damage to the monitor and nozzle is especially important after each use.

Visually inspect each system component including the Monitor, Nozzle, Joystick, Valve and Wire Harnesses.

- Operate each function (left-right, up-down, jet-fog) from each control point.
- Flow water to check the nozzle pattern. If the pattern is disrupted, use the nozzle flush feature to clear the debris. To flush the nozzle, while spraying water from the cannon, open the spray pattern the full way, then close it to the tightest pattern, and repeat again. If the obstruction remains, remove the nozzle, and check for debris lodged between the nozzle stem and body.
- During nozzle flow test, inspect monitor swivel joints for leaks.
- Inspect all exposed wiring for signs of damage.

Drain water cannon after use by opening installed petcock valve. Stagnant water may cause rust, corrosion, or cracks when frozen.

### WINTERIZING/FREEZE PREVENTION

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

- Water Tank Drain the water tank as much as possible, parking on an incline with the drain at the lowest point.
- Drain Valves Open any drain valves installed on the spray system.
- Water Cannon Open the drain valve on the cannon and open the nozzle to allow air flow.
- Hose Remove hose reel supply hose and leave ball valve open. Open the hose nozzle and leave it open to drain.
- Fill Tube Open valve to release any water that may be trapped.



# **SPARE PARTS**

The number and type of spare parts kept on hand at any pump site is dictated by the severity of the service in which the pump is used. It is recommended that the following spare parts be kept on-site as a minimum back-up to service pump and reduce down-time. Parts shown do not apply to all models. Check your model/style when selecting spare parts.

- Mechanical shaft seal
- Packing set and packing hooks
- Shaft sleeve(s)
- Impeller wear ring
- All gaskets and O-Rings that are required for one entire pump assembly.
- Retaining rings
- Additional diaphragms for the air valves

If having a pump non-operational has severe consequences, a back-up pump should be considered. Otherwise, a backup impeller, volute case, bearings, and shaft, would be prudent.

### LONG TERM STORAGE

If pump is to be out of service for an extended period, such as the winter months, the following storage procedures should be followed:

- Remove exterior dirt and grime or any substance that may trap moisture. Exposed metal is subject to oxidation, prime and repaint if necessary.
- Flush suction and discharge lines. Check for leaks and replace any worn gaskets.
- Remove the lowest plug in the pump, drain the pump casing, and suction and discharge lines.
- Lubricate the bearings.
- If possible, keep the unit clean and dry during storage period to guard against corrosion.
- Seal all open ports to keep out foreign objects such as insects, rodents, dust, and dirt.
- Rotate driver shaft periodically to prevent freeze-up of internal components.
- Shelter the pump from the elements when possible.



# **BOLT TORQUE SPECIFICATION CHART**

Coarse Thread, Grade (8) Bolt Torque Specs				
		Tightening Torque		
Normal Diameter	Clamp load (lbs)	Lubricated	Dry Threads	
		Threads	Dry meads	
1/4	2864	107 in-lbs	143 in-lbs	
5/16	4719	221 in-lbs	295 in-lbs	
3/8	6974	33 ft-lbs	44 ft-lbs	
7/16	9568	52 ft-lbs	70 ft-lbs	
1/2	12771	80 ft-lbs	106 ft-lbs	
9/16	16375	115 ft-lbs	154 ft-lbs	
5/8	20340	159 ft-lbs	212 ft-lbs	
3/4	30101	282 ft-lbs	376 ft-lbs	
7/8	41556	455 ft-lbs	606 ft-lbs	
1	54517	681 ft-lbs	909 ft-lbs	
1 1/4	87220	1363 ft-lbs	1817 ft-lbs	
1 3/8	103939	1768 ft-lbs	2382 ft-lbs	
1 1/2	126473	2371 ft-lbs	3162 ft-lbs	

#### NOTE

ALL TORQUED BOLTS ARE TO BE MARKED AFTER BEING TIGHTENED TO SPECIFICATIONS.

#### CAUTION

ALL BOLTS SHOULD BE RECHECKED TO MEET TORQUE SPECS EVERY 500 MILES



Coarse Thread, Grade (5) Bolt Torque Specs				
	Clamp load (lbs)	Tightening Torque		
Normal Diameter		Lubricated	Dry Threads	
		Threads		
1/4	2029	76 in-lbs	101 in-lbs	
5/16	3342	157 in-lbs	209 in-lbs	
3/8	4940	23 ft-lbs	31 ft-lbs	
7/16	6777	37 ft-lbs	49 ft-lbs	
1/2	9046	57 ft-lbs	75 ft-lbs	
9/16	11599	82 ft-lbs	109 ft-lbs	
5/8	14408	113 ft-lbs	150 ft-lbs	
3/4	21322	200 ft-lbs	267 ft-lbs	
7/8	29436	322 ft-lbs	429 ft-lbs	
1	38616	483 ft-lbs	644 ft-lbs	
1 1/4	53786	840 ft-lbs	1121 ft-lbs	
1 3/8	64096	1102 ft-lbs	1469 ft-lbs	
1 1/2	77991	1462 ft-lbs	1950 ft-lbs	

#### NOTE

ALL TORQUED BOLTS ARE TO BE MARKED AFTER BEING TIGHTENED TO SPECIFICATIONS.

# CAUTION

ALL BOLTS SHOULD BE RECHECKED TO MEET TORQUE SPECS EVERY 500 MILES

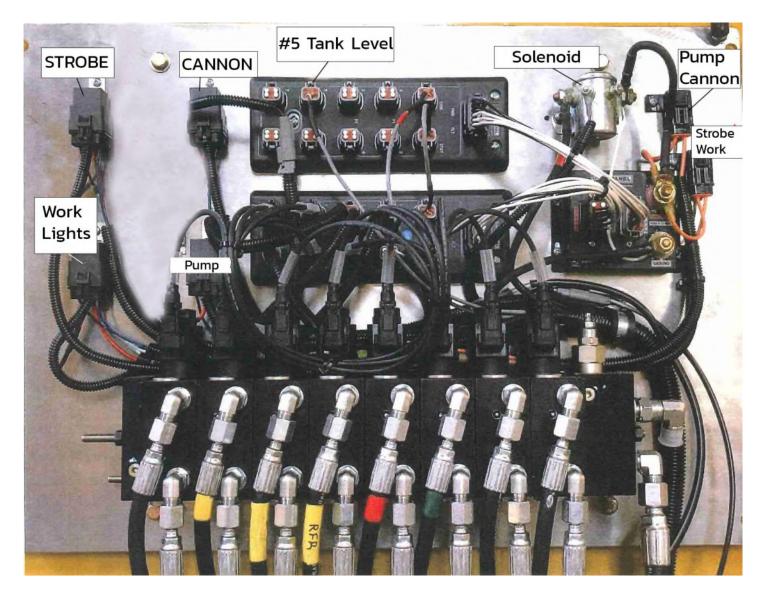


# **Schematics**

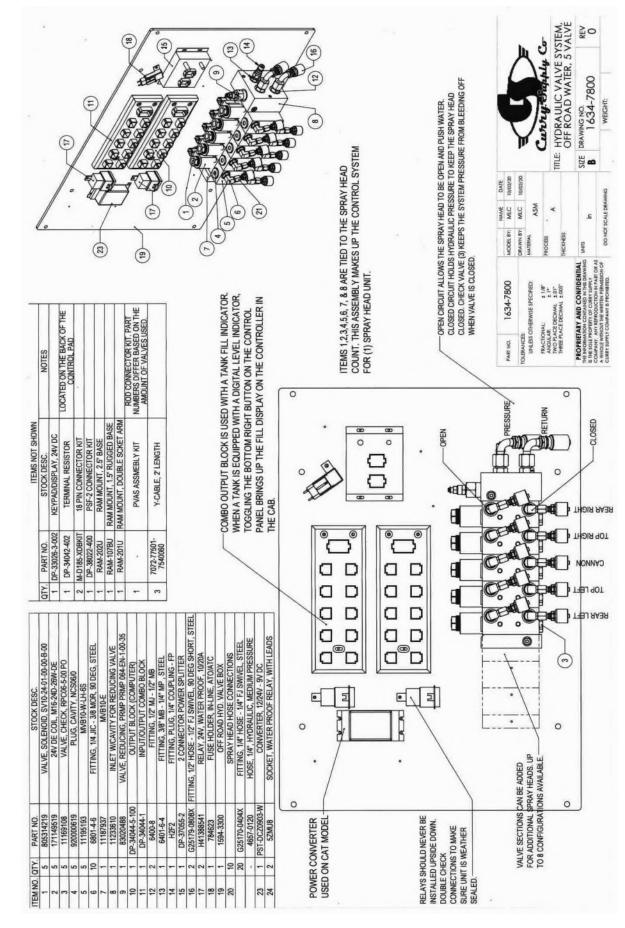
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# HYDRAULIC BOX OPEN VIEW

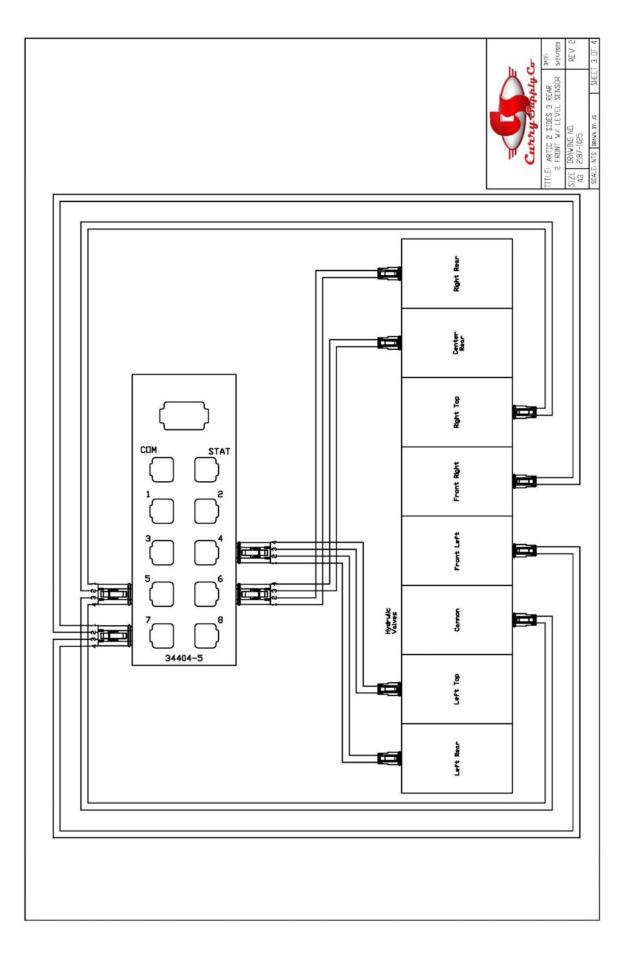




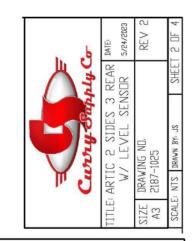


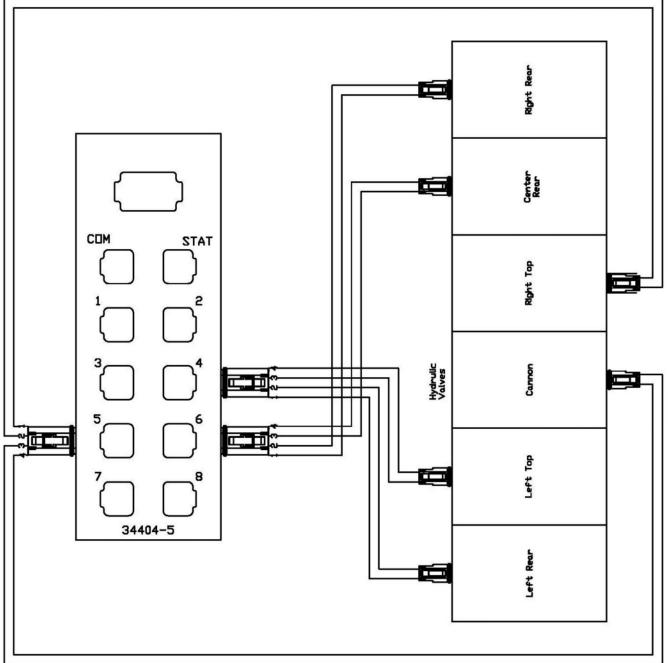


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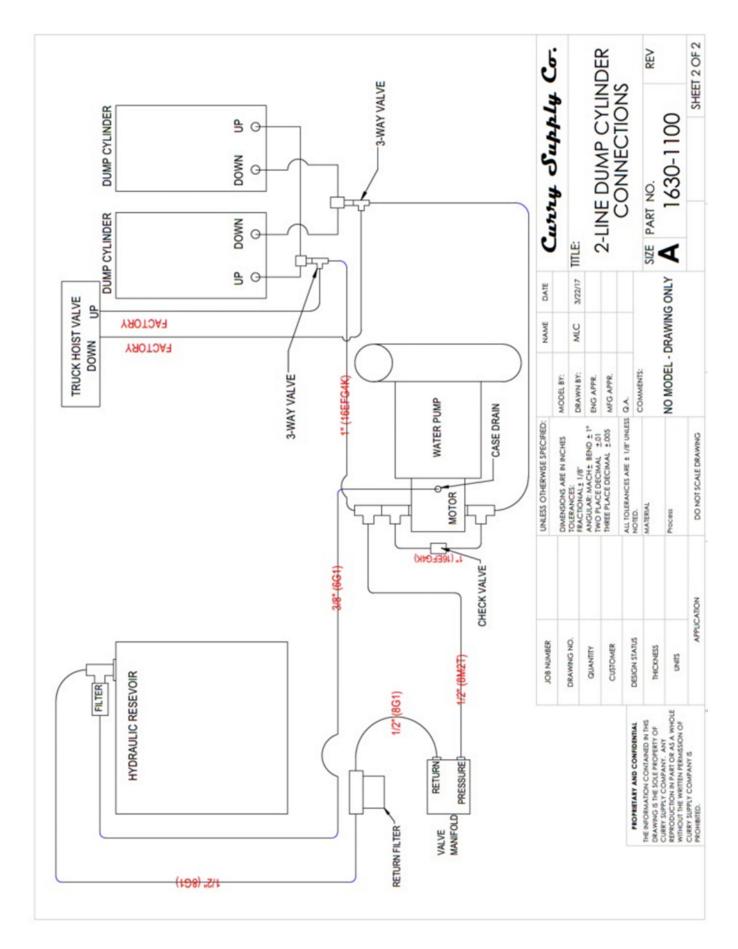




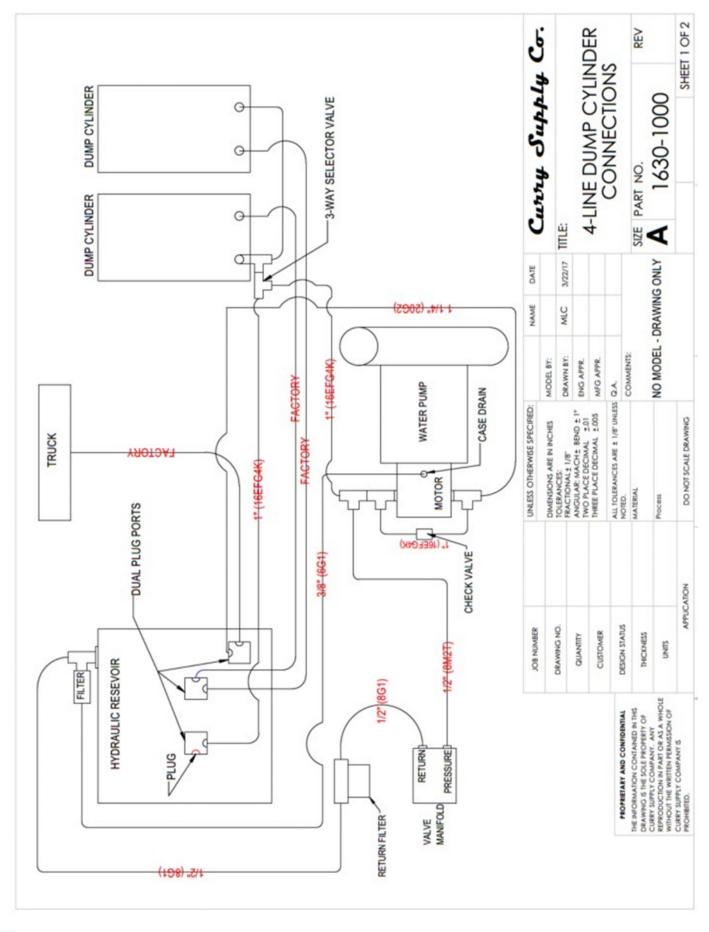




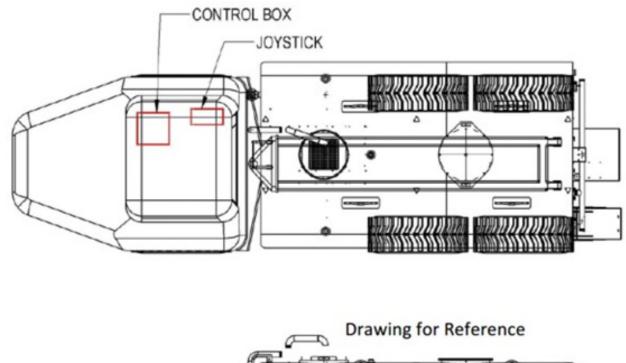


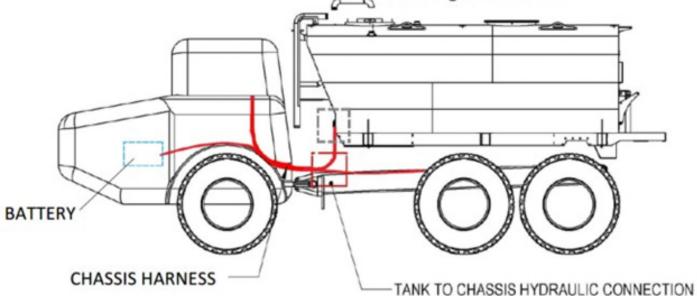




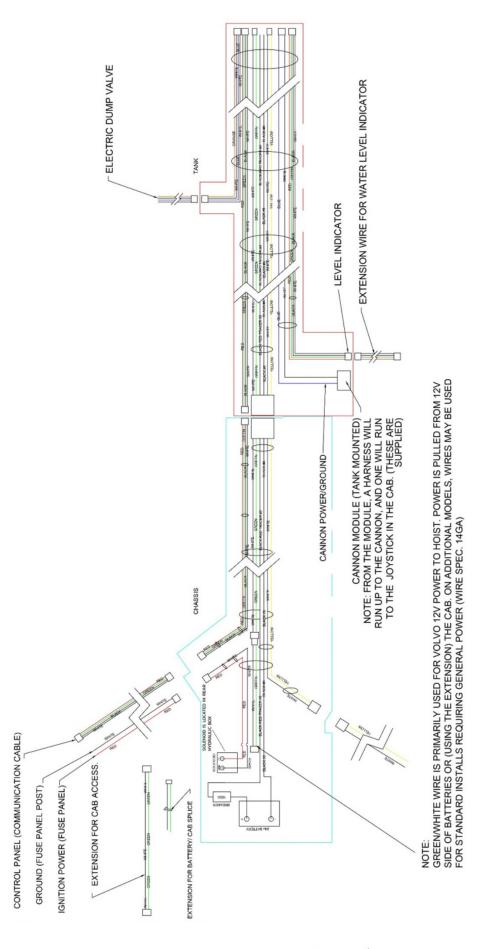






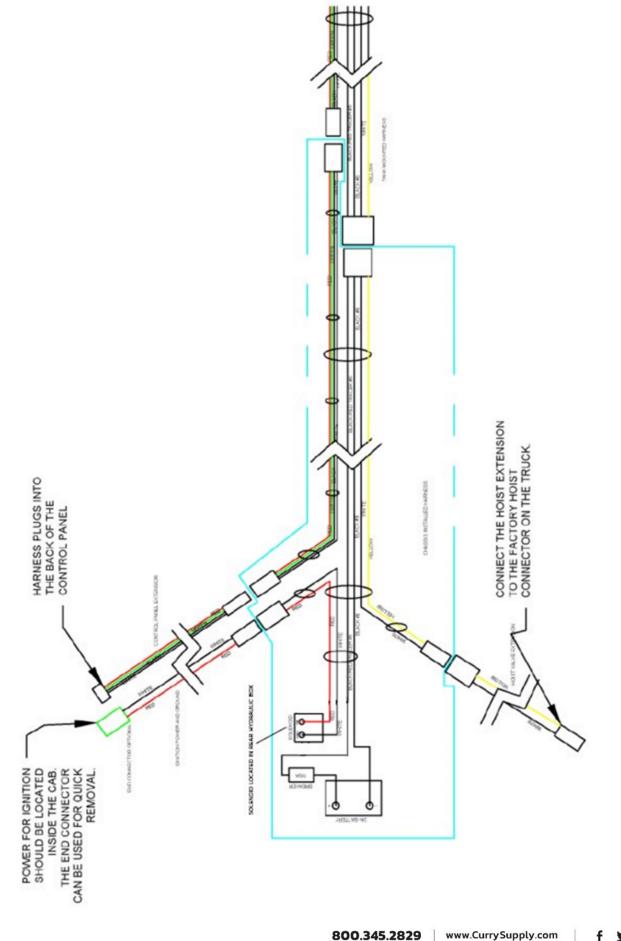


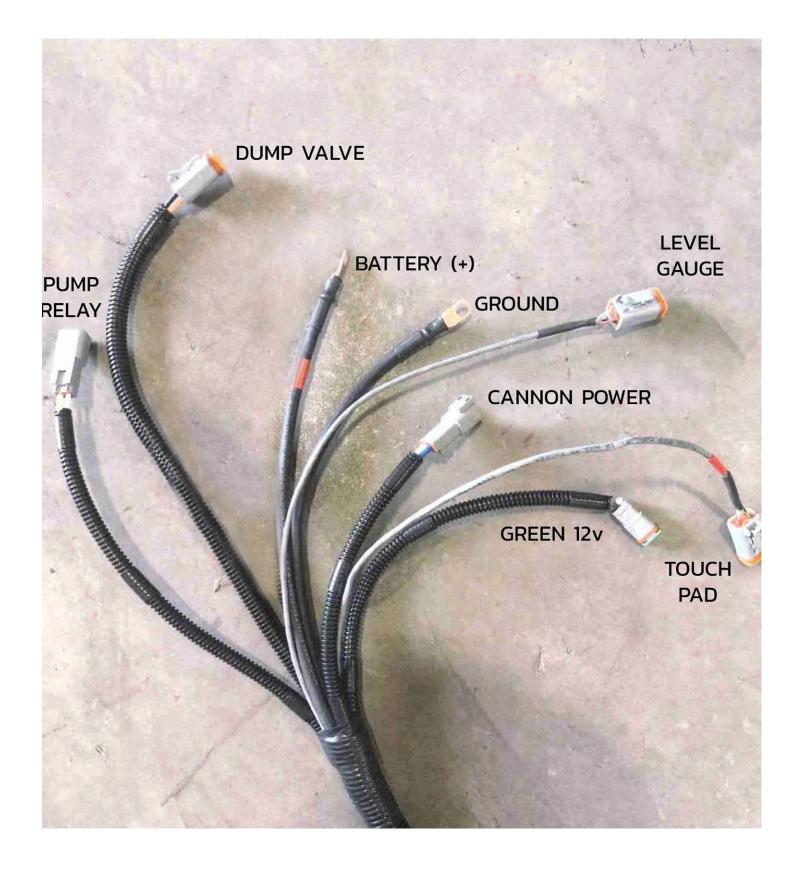




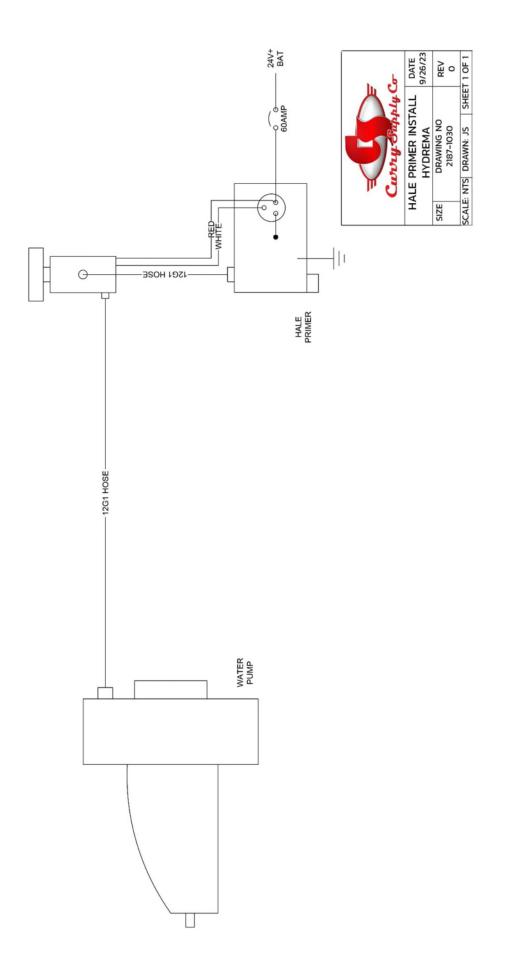


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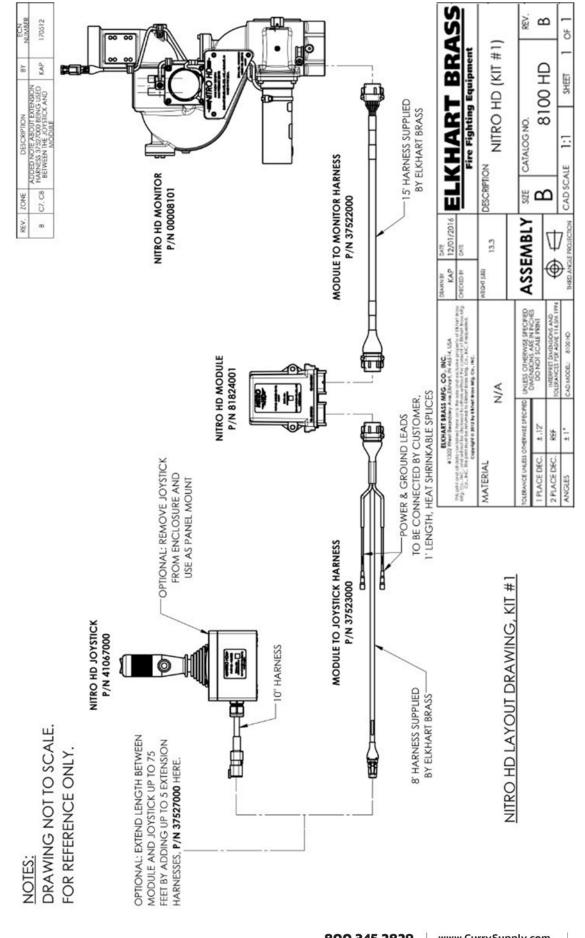












# Troubleshooting

PROBLEM	POSSIBLE CAUSE	REMEDIES
No water pressure	Water pump not working	Check hydraulic flow and
	correctly	pressure from hoist valve
	Truck not turned on	Start the truck ignition.
Water Pump not	Blown fuse	Review the truck's manual for
working		fuse location and replace blown
		fuse.
	Defective / Shorted Relay	
Spray head not	Spray head not open	Make sure spray head is open on
spraying water		tower or control dash.
	Water pump not turned on	Turn on water pump to get power
		to water pump.
Water Cannon will not	Water Cannon Power not turned	Turn on power by pulling up on
function	on	water cannon power knob.
	Blown fuse	Review the truck's manual for
		fuse location and replace blown
		fuse.
Water Cannon will not	Debris blocking movement	Check for debris and clear
move, moves		obstruction.
intermittently	Monitor wires damaged	Inspect wires for connection or
		splicing, replace or contact
		customer service.



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



# 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 / Railroa	d		
Tank	$\checkmark$		
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 1year period. Excluded is damage such as chips, dents, scratches, tank interior coating, and corrosion due to caustic chemicals (eg. 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.



#### 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.



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.

<u>Curry Supply After-Sales Contact Information</u>: 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, EXPRE2SS 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.

