



Doing Our Best to Provide You the Best

8D000006, Rev C
04/26

LIQUID TENDER PLUMBING OPTIONS



OPERATOR MANUAL

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In this document you will find information based on available knowledge at the time of its publication. To be accurate with the information, every effort was made but may not cover all details or variations of a product or provide every possibility in connection with its production, operation and maintenance. A Feature and Option may be presented in the manual that is not relevant to this product. Demco assumes no obligation of notice, to holders of this document, with changes made to a product.

SPECIFICATIONS AND DESIGN ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Demco is often making improvements and developing new designs. In doing so, we reserve the right to make changes and/or improvements without obligation for equipment sold beforehand. Self-modification to our products may affect the operation, function, and safety, so this is not advised. If a replacement part is necessary, Demco should supply it, please contact your nearest dealer or Demco.

DEMCO STATEMENT OF PRODUCT SAFETY

As a producer of agricultural and transportation equipment, Demco is fully aware of its responsibility of providing its customers products that perform their expected use, in a truly safe manner. Safety considerations shall be a fundamental and high precedence part of all engineering/design analysis and judgments involving Demco products. It is our stated policy that our products will be manufactured to coincide with the safety standards specified by the National Association of Trailer Manufacturers and/or any other officially recognized standards at the time manufactured. However, this statement should not be translated to mean that our product will uphold against a customer's own carelessness or disregard for common safety practices specified in each product's manual, nor will we be accountable for any such occurrence.

INTRODUCTION

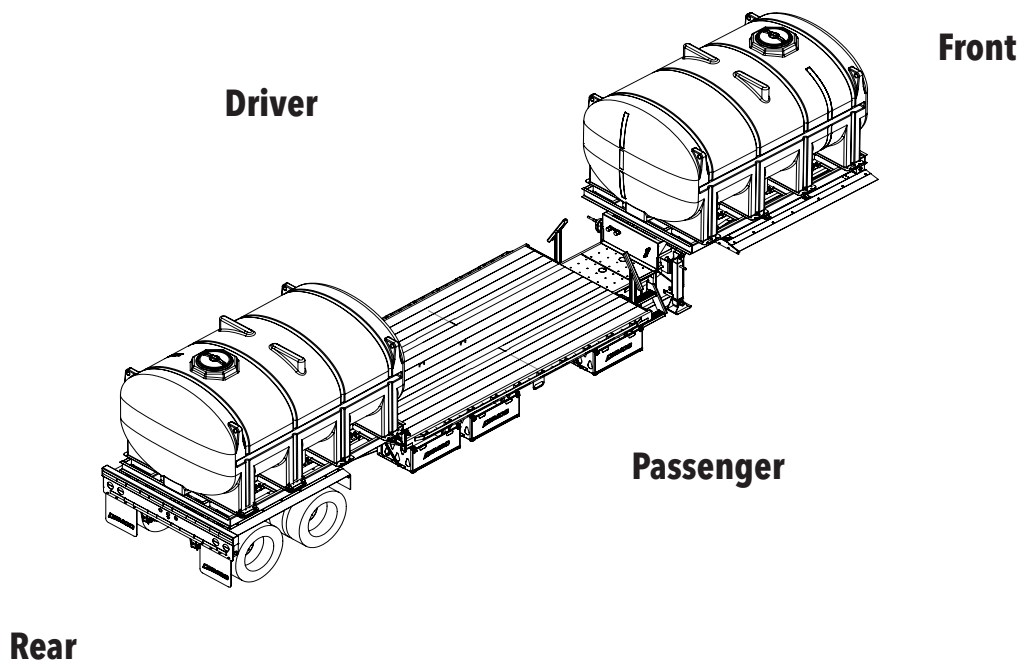
At Demco we strive to design, produce and deliver the highest quality products on the market. Our employees have a strong background of knowledge and combined experience in manufacturing to put quality workmanship into our products. In this manual you will find information covering all Demco Liquid Tender Plumbing Options. Use the table of contents to locate specific areas of interest.

GENERAL INFORMATION

Demco requires that you and anyone else who will be operating and maintaining the plumbing equipment read and understand the guidelines in the manual for safe, efficient, and trouble free operations. Proper maintenance, adjustments and use will result in many years of service. Keep this manual handy for frequent reference and to pass on to new operators or owners. If assistance, information, or additional copies of the manual are needed, contact the nearest dealer, a distributor, or Demco.

PLEASE NOTE

- All documents within the manual referring to products not manufactured by Demco have been printed with the permission of the respective manufacturer.
- All references to driver, passenger, front and rear of the trailer are determined from a position behind the trailer and facing forward.



WARRANTY POLICIES

Please go online to review Demco Warranty Policies. The warranty information is located at www.demco-products.com/resources/warranty-policies.

The Demco Warranty does not cover the following:

- 1) Cleaning, transporting, mailing and service call charges.
- 2) Depreciation or damage caused by normal wear, accidents, improper protection or improper use.

CONTACT INFORMATION FOR ADDED MANUFACTURER PARTS

As noted, some of the Liquid Tender Plumbing Options include purchased parts from other manufacturers. Their QR Codes and links to respective owner's manuals are provided here for access to more detailed information related to installation, maintenance, safety, parts, etc. Additionally, customer support phone numbers and emails are included for further assistance.

- **Dura Products FastBatch™ Systems** - Product Manuals & User Guides:
<https://duraproducts.com/dura-product-manuals-guides/>
 - Dura Products Customer Service can be reached by calling 317-984-4003 or by emailing CustomerService@DuraProducts.com
- **Flomec** - Owners Manuals Link:
<https://greatplainsindustries.com/pages/owners-manuals>
 - Flomec Product Support Center can also be contacted for assistance by calling 1-800-835-0113 or by visiting their online support center at greatplainsindustries.com/pages/support-center
- **Hannay** - Owners Manuals Link:
<https://www.hannay.com/en-US/support/maintenance-and-installation-guides/>
 - Hannay Customer Service can also be contacted for assistance by calling 1-877-467-3357 or by emailing reels@hannay.com
- **John Blue** - Owners Manuals Link:
<https://johnblue.com/product/centrifugal-pumps-coupled-to-gasoline-engines/>
 - John Blue Customer Service can also be contacted for assistance by calling 1-800-253-2583 or by emailing johnblue.com
- **Honda** - Owners Manuals Link:
<https://engines.honda.com/support-and-service/owners-manuals>
 - Honda Customer Relations can also be contacted for assistance by calling 1-770-497-6400



Pre-Delivery Checklist

Inspect all components thoroughly after shipment to be certain they are functioning properly before delivering them to the customer. The following checklist is a reminder of points to cover. Check off each item as it is found satisfactory or after proper adjustment is made.

- 1. All hardware properly tightened
- 2. Lubrication of grease fittings
- 3. All decals properly located and readable
- 4. Lights function properly
- 5. Overall condition (touch up any scratches, clean and polish)
- 6. Operator's manual included

Date Delivered: _____

Signature of Salesman or Technician: _____

Delivery Checklist

Review the operator's manual with the customer. Explain the following:

- 1. Safe operation and service
- 2. Correct pump operation
- 3. Daily and periodic lubrication and maintenance
- 4. Daily and periodic inspections
- 5. Trouble shooting
- 6. Storing trailer
- 7. Demco parts and service policies
- 9. Give customer the operator's manual and encourage the customer to read the manual carefully.

Date Delivered: _____

Signature: _____

Thank you for your recent purchase of a New Demco Liquid Tender Plumbing Package. We're "Doing Our Best To Provide You The Best".

Manuals and Assistance

This manual has been prepared to assist you in the operation of your new trailer and contains information pertaining to safety and operations.

Demco personnel are available to assist you if questions arise concerning the maintenance or operations of your trailer. 1-800-54DEMCO (800-543-3626).

To order any parts or additional options for your trailer, please contact your dealer or view our online manuals at: www.demco-products.com

- Current manuals are listed in | Semi Trailers | Liquid Tender Trailers | Plumbing and Accessory Options | Manuals (Located at the bottom of the page)
- Older manuals are listed in | Resources | Archived Manuals

CCW (Counter Clockwise): Direction of rotation

CW (Clockwise): Direction of rotation

Empty Weight: Some information that comes with the trailer is not a reliable source for 'empty' weight. The shipping documents list average or standard weights and your trailer may be equipped with options. To determine the 'empty' or weight of your trailer, have trailer weighed at a commercial scale.

Fill Bank / Valve Cluster: Group of valves responsible for distributing liquid between the tanks and other components.

Inductor: Mixing cone with venturi for proper blending of chemicals into water.

PPE (Personal Protective Equipment): Examples of this relative to Liquid Tender Plumbing may include but is not limited to; safety glasses, gloves, steel toe boots, splash apron, etc.

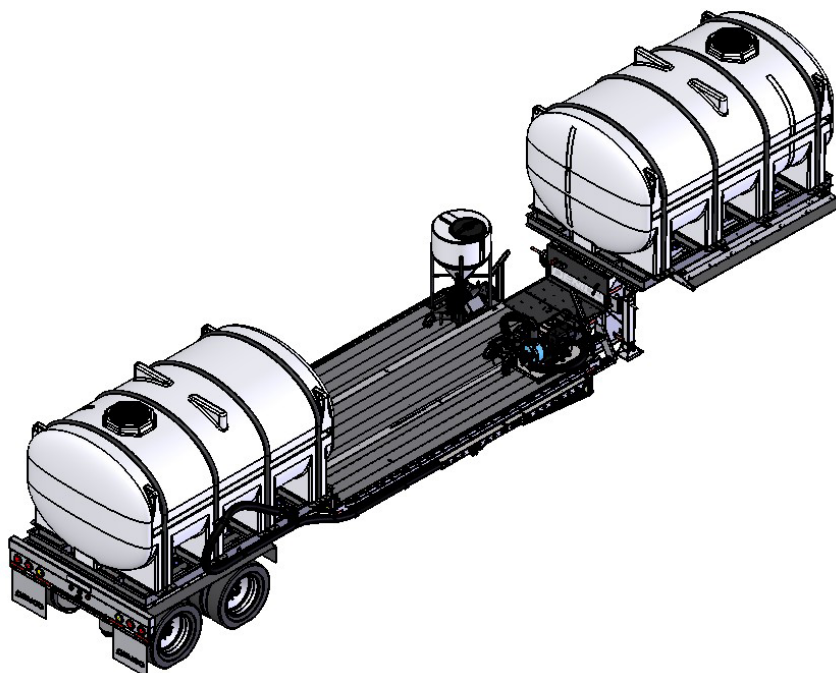
PSI (Pounds Per Square Inch): The liquid pressure measurement. The maximum system pressure is determined by the liquid pump.

Plumbing Packages:

1. Basic Plumbing Package- Includes plumbing from front and rear tanks to a central fill bank / valve cluster
2. Deluxe Plumbing Package - Upgrades to a deluxe inductor (60-gallon cone, 4-valve manifold for filling from totes, flow meter, and jug rinse)
3. DEMCO Premier Plumbing Package with Dura FastBatch™ DI Spray Fill System - Upgrades to an integrated MultiJet System by Dura Products for faster mixing and filling. Features an auto-batch high-flow system and 4 chemical direct injection
 - Compatible with 38', 40', 42', 48', and 53' Demco Liquid Tender Trailer Lengths

Available Plumbing Options:

1. Hannay Hose Reel With Stand - 3" hose reel w/steel construction, 50' hose capacity, plumbing fittings and electric rewind
 - Can be paired with the Deluxe or with the DEMCO Premier Packages
 - Passenger unload only
2. Boom Arm - Boom swing arm, hose, & plumbing fittings
 - Can be paired with the Deluxe or with the DEMCO Premier Packages
3. Pump Assist/Bypass - Allows the pump on the trailer to be used as the loading pump and to run for short periods of time without end-to-end connection.
 - Can be paired with the Deluxe Package
 - Included with the DEMCO Premier Package





**THIS SYMBOL MEANS:
ATTENTION!
BECOME ALERT!
YOUR SAFETY IS
INVOLVED!**

TAKE NOTE! THIS SAFETY ALERT SYMBOL FOUND THROUGHOUT THIS MANUAL IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY AND SAFETY OF OTHERS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH!

SIGNAL WORDS

Note use of following signal words **DANGER**, **WARNING**, and **CAUTION** with safety messages. The appropriate signal word for each has been selected using the following guidelines:

DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to most extreme situations typically for machine components which, for functional purposes, cannot be guarded.

WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION: Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

EQUIPMENT SAFETY GUIDELINES

Every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury, study the following precautions and insist those working with you, or you yourself, follow them.

Operator should be a responsible adult. **DO NOT ALLOW PERSONS TO OPERATE THIS EQUIPMENT UNTIL THEY HAVE DEVELOPED A THOROUGH UNDERSTANDING OF SAFETY PRECAUTIONS AND HOW IT WORKS.**

DO NOT modify the equipment in anyway. Doing so may impair the function and/or safety and could affect the life of the equipment.

Never exceed the maximum capacity of the trailer. By doing so you risk damage to your trailer. If it's ability to do a job, or to do so safely is in question, **DON'T TRY IT.**

Review safety instructions with all users annually.

Replace any caution, warning, danger or instruction safety decal that is not readable or is missing. Location of such decals is indicated in this booklet.

Do not paint over, remove, or deface any safety signs or warning decals on your equipment. Observe all safety signs and practice instructions on them.

**RECOGNIZE SAFETY INFORMATION**

This is the safety-alert symbol. When you see this symbol on your equipment or in this manual, be alert to the potential for personal injury. Follow recommended precautions and safe operation practices.

**FOLLOW SAFETY INSTRUCTIONS**

- Carefully read all safety messages in the manual and on your equipment safety signs.
- Keep safety signs in good condition.
- Replace missing or damaged safety signs.
- Learn how to operate the equipment and how to use controls properly.
- Do not let anyone operate without instruction.
- Keep your equipment in proper working condition.
- Unauthorized modification to the equipment may impair the function and/or safety and affect equipment life.

**PROTECT CHILDREN AND BYSTANDERS**

- Before backing, LOOK CAREFULLY behind for children.
- Clear area of children, pets and bystanders.

**LOAD DISTRIBUTION SAFETY**

The total weight of the load you put on the trailer, plus the empty weight of the trailer itself, must not exceed the trailer's Gross Vehicle Weight Rating (GVWR). You must distribute the load on the trailer such that the load on any tire or axle does not exceed the tire load rating or the Gross Axle Weight Rating (GAWR). If you do not know the weight of your trailer you must weigh it at a commercial scale. See your VIN Plate for proper ratings. Not following these guidelines could cause serious injury or even death.



ADOPT SAFE DRIVING PRACTICES

- Always drive at a safe speed relative to local conditions and ensure that your speed is low enough for an emergency stop to be safe and secure.
- Keep speed to a minimum.
- Reduce speed prior to turns to avoid the risk of overturning.
- Avoid sudden uphill turns on steep slopes.
- Always keep the tractor or towing vehicle in gear to provide engine braking when going downhill. Do not coast.
- Do not drink and drive.
- Comply with state and local laws governing highway safety and movement of equipment on public roads.
- Use approved accessory lighting and necessary warning devices to protect operators of other vehicles on the highway during daylight and nighttime transport.



HIGHWAY AND TRANSPORT OPERATIONS

- Plan your route to avoid heavy traffic.
- Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc.
- Be observant of bridge loading ratings. Do not cross bridges rated lower than the gross weight at which you are operating.
- Always operate the tractor trailer in a position to provide maximum visibility at all times. Make allowances for increased length and weight of the equipment when making turns, stopping the unit, etc.



AVOID HIGH PRESSURE FLUIDS

- Escaping fluid under pressure can penetrate the skin causing serious injury.
- Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.
- Search for leaks with a piece of cardboard.
- Protect hands and body from high pressure fluids.
- If an accident occurs, see a doctor immediately.



**Pre-Trip Checklist**

Perform the Pre-Trip Checklist whenever the vehicle and trailer have been left unattended.

1. Ensure all doors on toolboxes, storage bins, and/or tote racks (if equipped) are securely latched
2. Ensure boom arm (if equipped) is secured in place
3. Ensure hose has been decoupled from the fill port on the trailer and the discharge line has been decoupled and put away
4. Ensure all liquid valves are closed
5. Check component bolts to ensure everything is properly secured

Routine Checklist

Perform a Routine Inspection Checklist before operating the vehicle and Liquid Tender Trailer.

1. Perform the Pre-Trip Checklist.
2. Check oil level in pump engine
3. Check fluid level in pump seal reservoir
4. Periodically grease hose reel swivel joint (if equipped)
5. Check hose and fitting connections for clamp tightness and leaks

End of Season Checklist

Perform the End of Season Checklist before storing Liquid Tender Trailer.

1. Rinse tanks and plumbing to remove any remaining chemical
2. Blow down lines to remove any excess water
3. If trailer will be stored in a region that sees temperatures below freezing fill lines with proper antifreeze
4. When storing trailer for long periods of time ensure battery maintains minimum level of charge to ensure battery health



Safety Guidelines

Carefully study and understand the Operator's Manual and all safety decals before operating, servicing, adjusting or repairing. It is the owner/operators responsibility to read the manual and instruct other operators to read the manual before operating.

- Always follow state and local regulations regarding safety chains and auxiliary lighting when towing.
- Keep hands, feet, hair & clothing away from moving and/or rotating parts.
- Do not carry passengers anywhere on the trailer.
- In addition to the design and configuration of a trailer, hazard control and accident prevention are dependent upon the knowledge, concern, and common sense of personnel involved in the operation, transportation, maintenance and storage of the trailer.
- Practice the operations and functions of your trailer. Don't hurry the learning process or take it for granted.
- Untrained operators are not qualified to operate the trailer.
- If the operation safety is followed, along with a good maintenance program your trailer will provide you with years of trouble-free service.



Operating Safety

- Never point nozzle at yourself or another person
- Ensure discharge line is secured to end-point and necessary valves are open before operating pump
- Do not allow pump to run while inlet or discharge are blocked
- Be aware of hot exhaust which may cause severe burns or start fires
- Stop engine and allow it to cool before adding fuel to the tank
- Do not install a higher amperage fuse in a fuse holder than what the manual calls for
- Electricity poses risk for shock and arcing, keep metal away from exposed electrical connections
- Do not allow battery to overcharge, which may release flammable and toxic fumes
- Ensure battery and connections are secure at all times to prevent damage
- Do not operate the air blow down on a closed line.



Service and Maintenance

Carefully read this section on service and maintenance safety. Good maintenance is your responsibility. Performing maintenance according to the schedule will prolong the performance and life of your equipment and ensure the safety and liability of the operation. If you cannot perform the required maintenance talk to your dealer about having them done. Also check the relevant component manufacturer's manual if available.

- Make sure there is plenty of ventilation. Never operate engine of pump in a closed building. Exhaust fumes may cause asphyxiation.
- Always block wheels and never use a jack as sole support.
- Always use proper tools or equipment for job at hand.
- Use extreme caution when making adjustments.
- Follow torque chart in this manual when tightening bolts and nuts.
- Openings in skin and minor cuts are susceptible to infection from fluid.
- After servicing, be sure all tools, parts and equipment are removed
- Do not allow grease, oil, or fluid residue to build up on any step or platform.
- When replacing bolts, refer to owner's manual for proper size and grade.
- Refer to bolt torque chart for head identification marking.
- When replacement parts are necessary for periodic service & maintenance, genuine factory replacement parts must be used to restore your trailer. Manufacturer will not claim responsibility for use of unapproved parts and/or accessories or other damages.
- If the trailer has been altered in any way from original design, any liability for injury or warranty will not be accepted by Demco.
- A fire extinguisher and first aid kit should be kept accessible while performing any service and maintenance on the trailer.

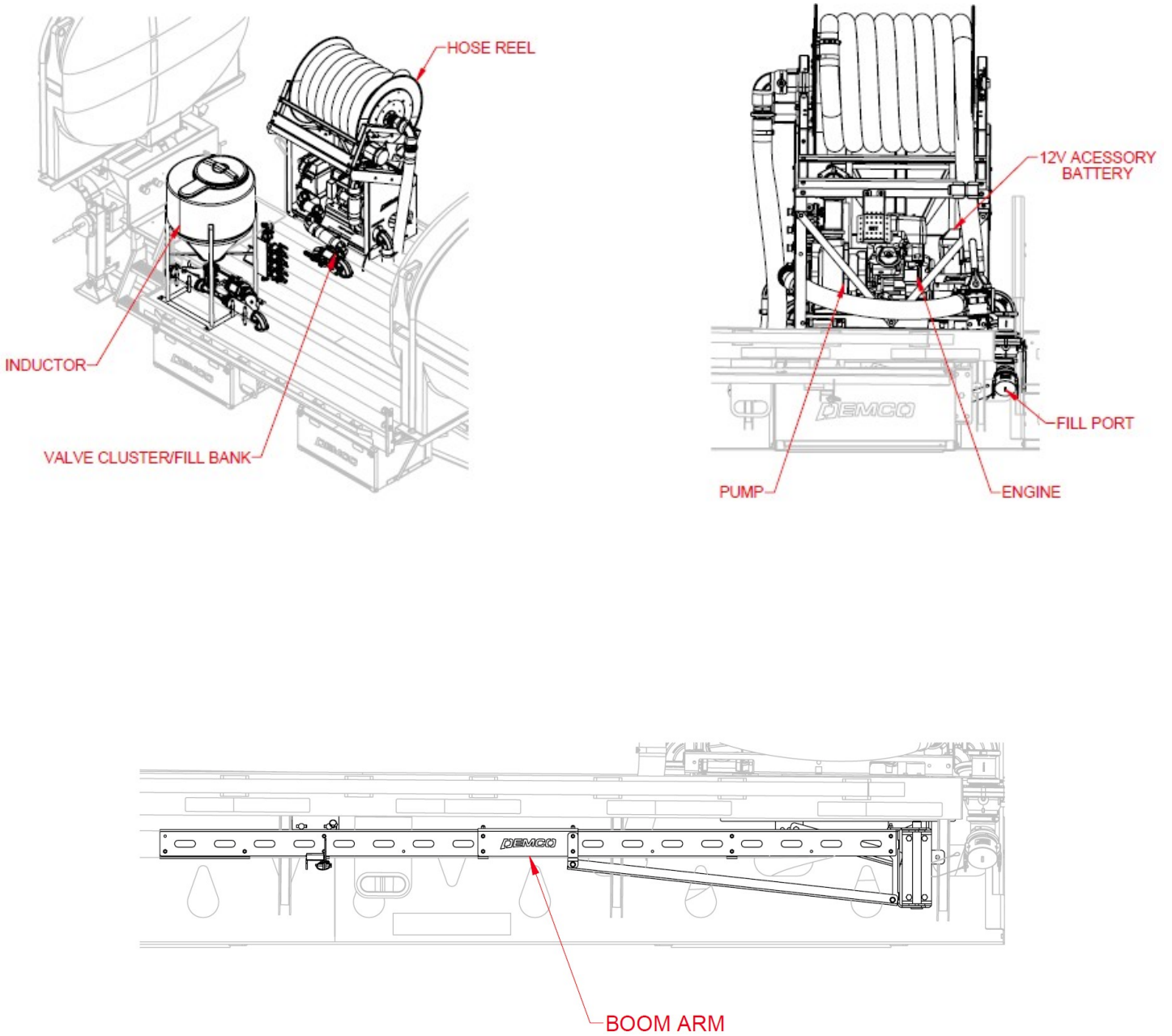
Cleaning the Trailer

It is imperative trailers constructed of steel be kept clean of salt and other harmful elements. Failure to wash your trailer regularly and properly care for the paint and body may void any paint warranty claims if the trailer shows signs of neglect or abuse.

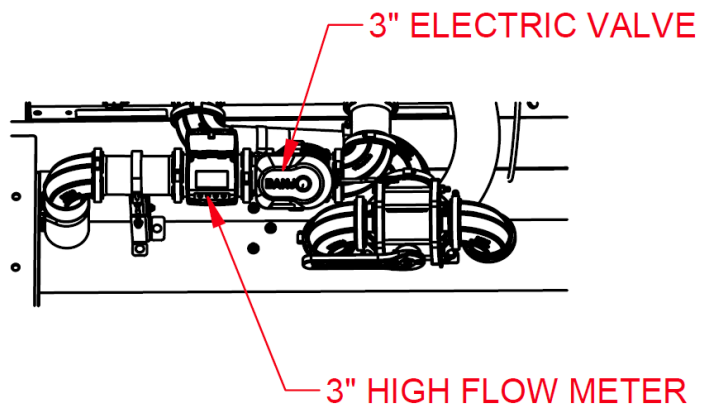
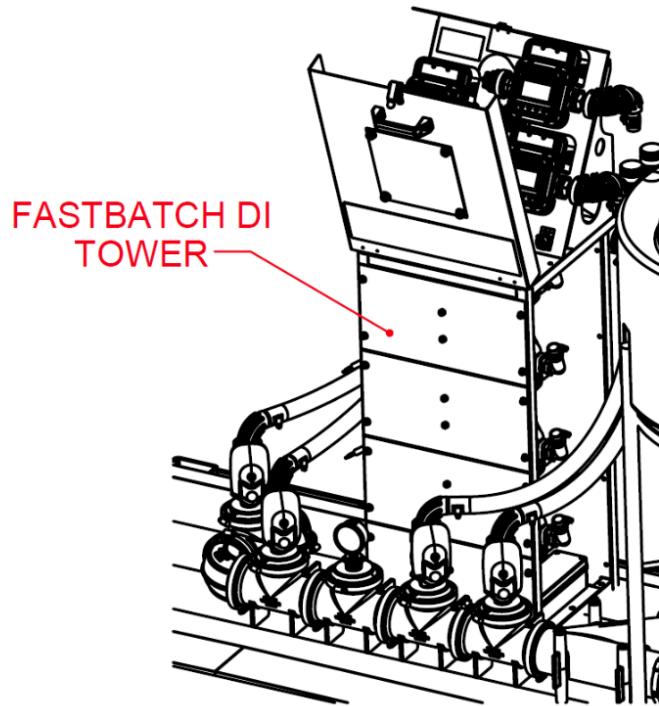
When cleaning the trailer use a mild soap and rinse. Wash underneath both slope areas, kingpin, and suspension areas.

Keeping your trailer clean will help rid your trailer of salt and other harmful elements. This will help keep your trailer looking new and improve it's resale value.

Familiarize yourself with the equipment before operation



Familiarize yourself with the equipment before operation

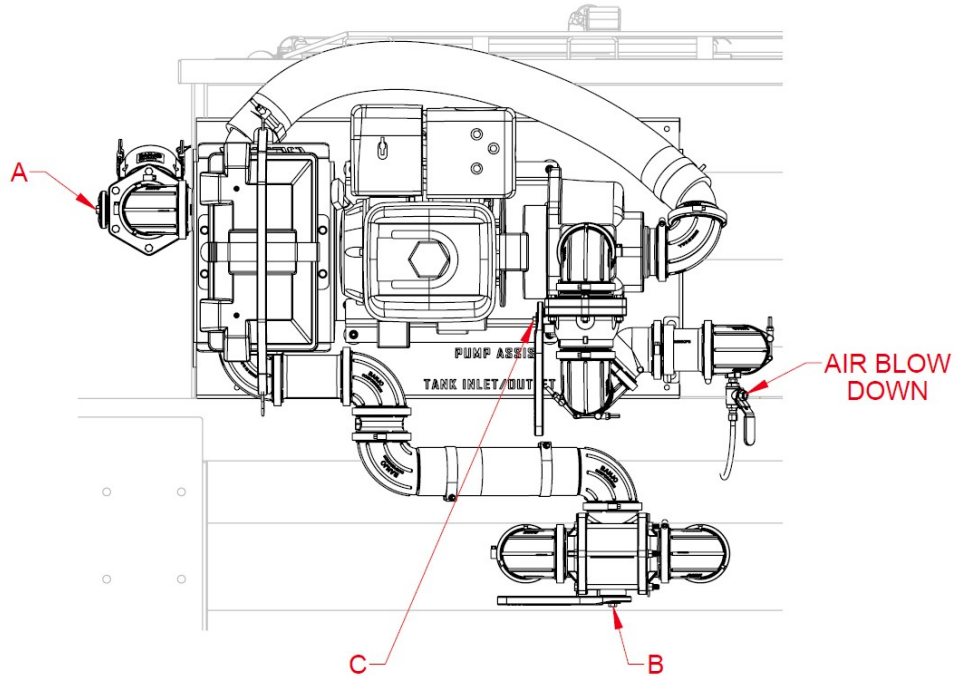


FILLING THE TANKS (WITHOUT PUMP ASSIST)

FILLING THE TANKS (WITHOUT PUMP ASSIST)

1. Close valves A through C
2. Remove FILL PORT CAP and Attach feed line to trailer FILL PORT
3. Open valve A and B (check valve B orientation for which tank is to be filled).
4. Start remote liquid pump
5. Once the tank has been filled to the desired level, stop the remote liquid pump
6. Close valves A through C
7. Decouple feed line and replace the FILL PORT CAP

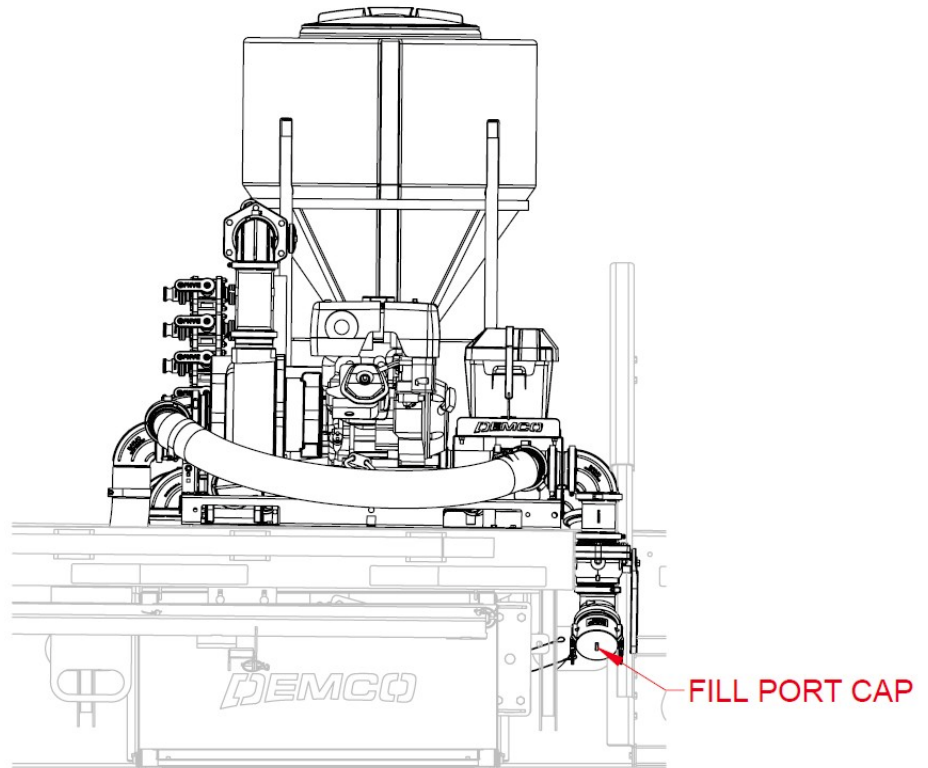
Valve A to the Fill Port
Valve B to the Front & Rear Tanks
Valve C to the Inductor



VALVE CLUST/FILL BANK
VALVE DESIGNATION

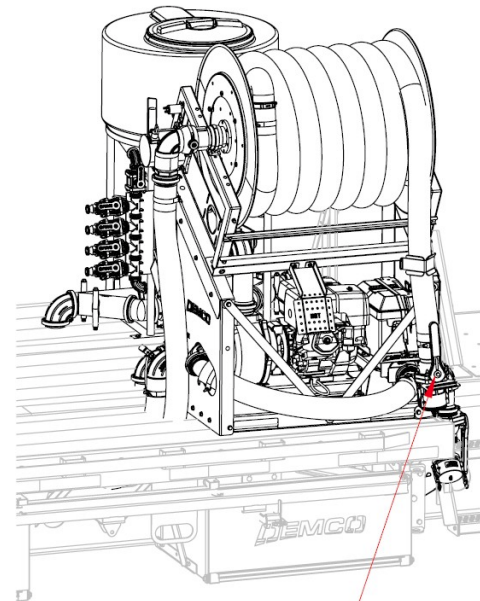


WARNING! Lines may contain a small amount of liquid when uncoupling hoses. Use proper PPE and caution when removing hoses.



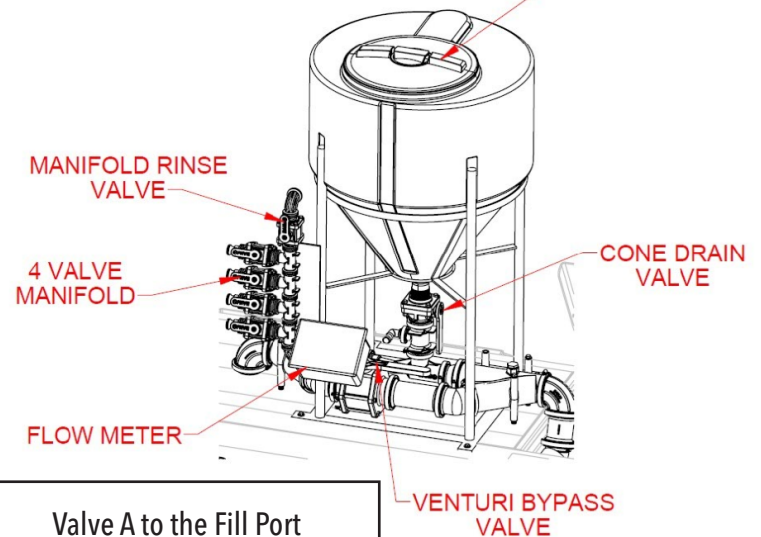
DISCHARGING LIQUID (WITHOUT PUMP ASSIST)

1. Close all valves that may be open (the jug rinse valve is located near the top of the INDUCTOR above the MANIFOLD RINSE VALVE)
2. Couple DISCHARGE NOZZLE to the vehicle you wish to fill
3. Open the valve on the DISCHARGE NOZZLE. For loads that you do not intend to use the INDUCTOR open the VENTURI BYPASS VALVE and skip to Step - 6
4. Add necessary product to the cone tank or couple the hose from the liquid tote you wish to draw from to the 4 VALVE MANIFOLD
5. If drawing liquid from a tote you will need to power on and reset the FLOW METER to zero
6. Open valves C and B depending on the tank you wish to draw from
7. Start pump engine (The speed of liquid flow should be controlled by the speed of the pump) if you do not intend to add chemical to the load skip to Step 10
8. Depending on which method you chose to use to add chemical in step - 4 either open the CONE DRAIN VALVE or the valve of the 4 VALVE MANIFOLD you wish to use to add product.
9. When chemical has been dispensed into the line, use the jug rinse valve located at the top of the cone and or the MANIFOLD RINSE VALVE to remove any remaining chemical from the INDUCTOR plumbing
10. When the vehicle has been filled to the desired level stop the pump and close valve C
11. Open the air blow down valve located on the pump discharge after valve C to push any liquid down the line.
12. Close the valve on the DISCHARGE NOZZLE and replace in the mount on the trailer
13. Close valves A and B

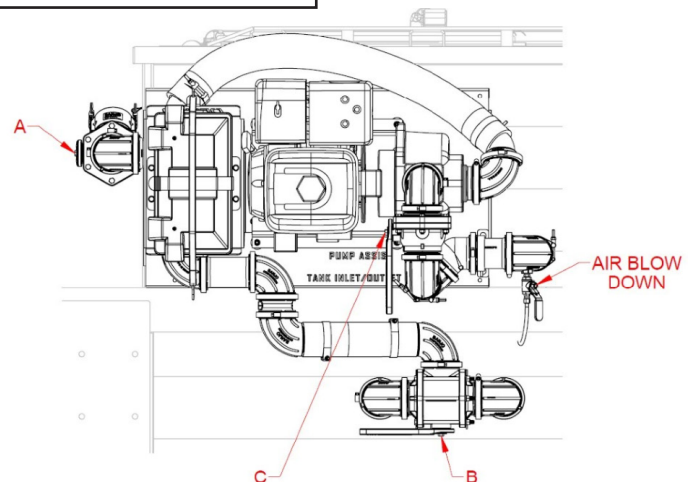


DISCHARGE NOZZLE

TANK LID



Valve A to the Fill Port
Valve B to the Front & Rear Tanks
Valve C to the Inductor



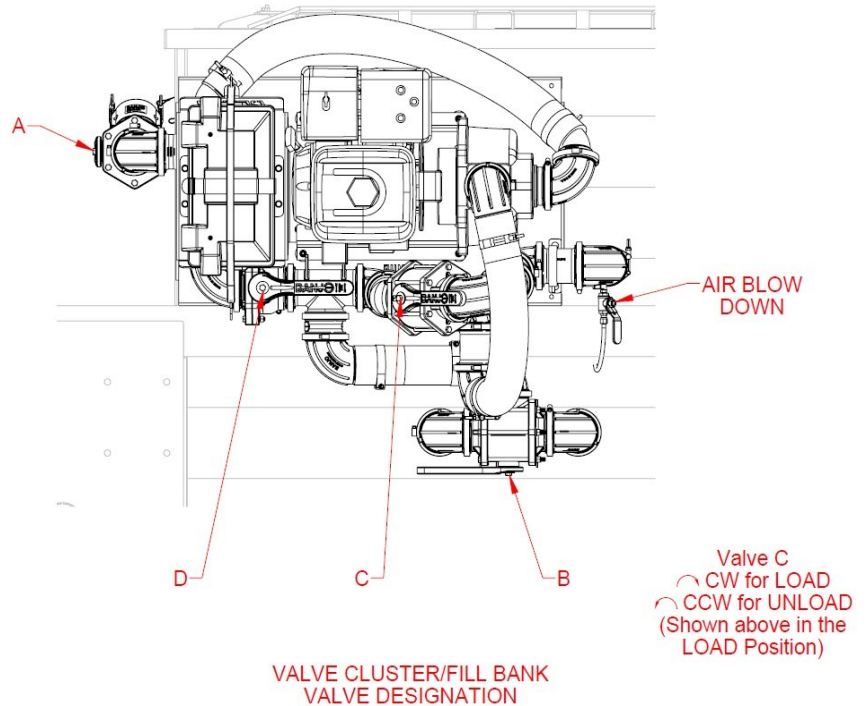
VALVE CLUST/FILL BANK
VALVE DESIGNATION

FILLING THE TANKS (WITH PUMP ASSIST)

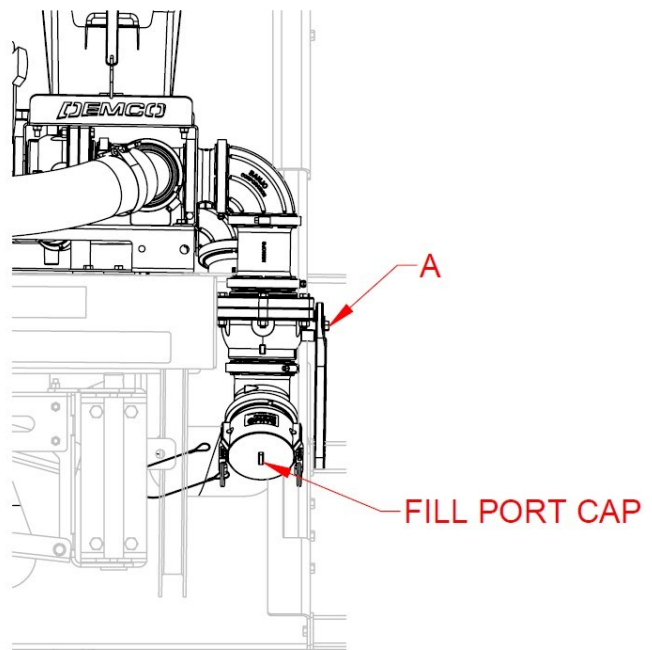
FILLING WITH THE ONBOARD PUMP (ACTIVE FILL)

1. Close valves A through D
2. Turn valve C, CW to the LOAD Position
3. Remove FILL PORT CAP and Attach feed line to trailer FILL PORT
4. Open valve A and B depending which tank is to be filled
5. Start pump engine (The speed of liquid flow should be controlled by the speed of the pump)
6. Once the tank has been filled to the desired level, stop the pump
7. Close valves A through D
8. Decouple feed line and replace the FILL PORT CAP

Valve A to the Fill Port
Valve B to the Front Tank/Rear Tank
Valve C to the Inductor or valve cluster/fill bank
Valve D to the fill port/pump inlet



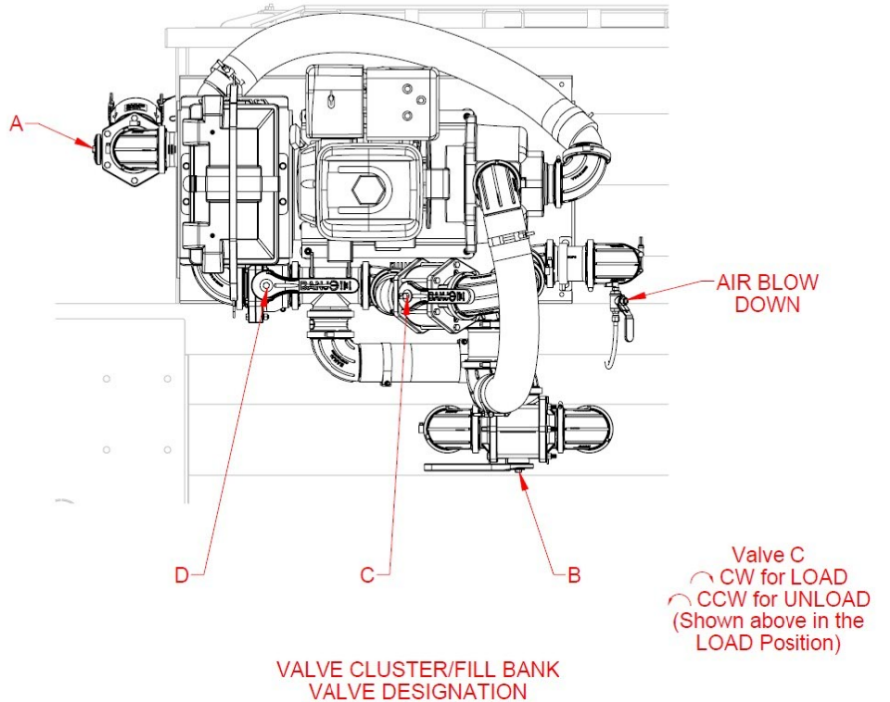
WARNING! Lines may contain a small amount of liquid when uncoupling hoses. Use proper PPE and caution when removing hoses.



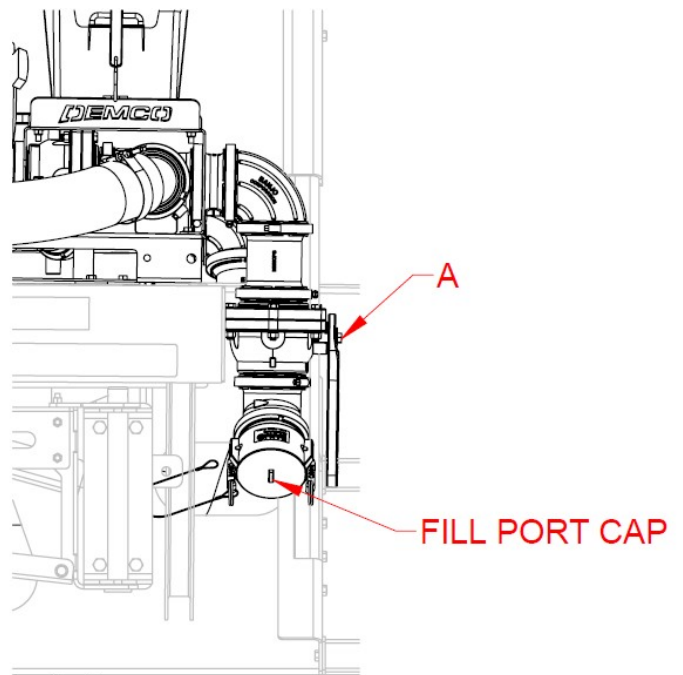
FILLING WITHOUT THE ONBOARD PUMP (PASSIVE FILL)

1. Close valves A through D
2. Turn valve C, CW to the LOAD Position
3. Remove FILL PORT CAP and Attach feed line to trailer FILL PORT
4. Open valve A, B, and D depending which tank is to be filled
5. Start remote liquid pump
6. Once the tank has been filled to the desired level, stop the remote liquid pump
7. Close valves A through D
8. Decouple feed line and replace the FILL PORT CAP

Valve A to the Fill Port
 Valve B to the Front Tank/Rear Tank
 Valve C to the Inductor or valve cluster/fill bank
 Valve D to the fill port/pump inlet

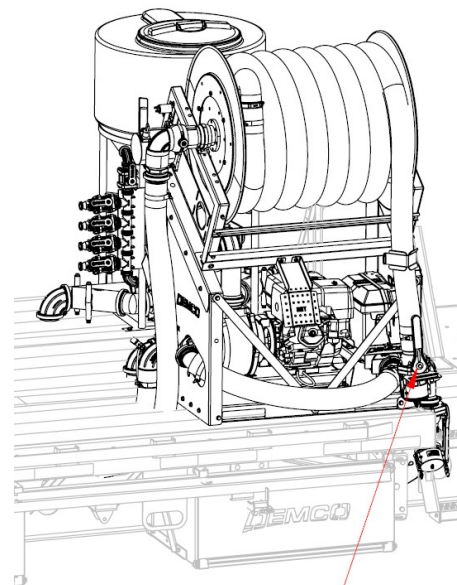


WARNING! Lines may contain a small amount of liquid when uncoupling hoses. Use proper PPE and caution when removing hoses.

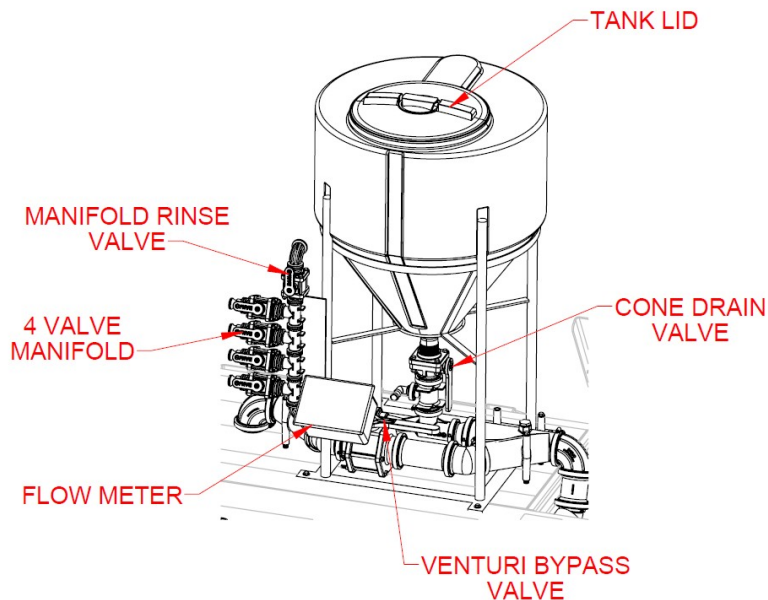


DISCHARGING LIQUID (WITH PUMP ASSIST)

1. Close all valves. (The jug rinse valve is located near the top of the INDUCTOR above the MANIFOLD RINSE VALVE)
2. Couple DISCHARGE NOZZLE to the vehicle you wish to fill.
3. Open the valve on the DISCHARGE NOZZLE. For loads that you do not intend to use the INDUCTOR open the VENTURI BYPASS VALVE and skip to Step 5
4. Add necessary product to the cone tank or couple the hose from the liquid tote you wish to draw from to the 4 VALVE MANIFOLD
5. If drawing liquid from a tote you will need to power on and reset the FLOW METER to zero
6. Open valves B and D depending on the tank you wish to draw from
7. Turn valve C, CW to the UNLOAD position
8. Start pump engine (The speed of liquid flow should be controlled by the speed of the pump) if you do not intend to add chemical to the load skip to Step 11
9. Depending on which method you chose to use to add chemical in step - 4 either open the CONE DRAIN VALVE or the valve of the 4 VALVE MANIFOLD you wish to use to add product.
10. When chemical has been dispensed into the line, use the jug rinse valve located at the top of the cone and or the MANIFOLD RINSE VALVE to remove any remaining chemical from the INDUCTOR plumbing
11. Open VENTURI BYPASS VALVE to continue discharging at high volume
12. When the vehicle has been filled to the desired level stop the pump and turn valve C, CW to the LOAD position
13. Open the air blow down valve located on the pump discharge after valve C to push any liquid down the line.
14. Close the valve on the DISCHARGE NOZZLE and replace in the mount on the trailer
15. Close valves A through D



DISCHARGE NOZZLE



MANIFOLD RINSE VALVE

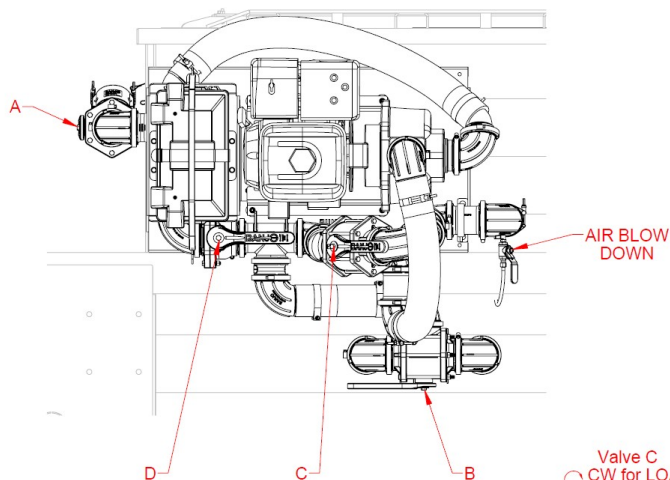
4 VALVE MANIFOLD

FLOW METER

VENTURI BYPASS VALVE

TANK LID

CONE DRAIN VALVE



Valve C
 CW for LOAD
 CCW for UNLOAD
 (Shown above in the LOAD Position)

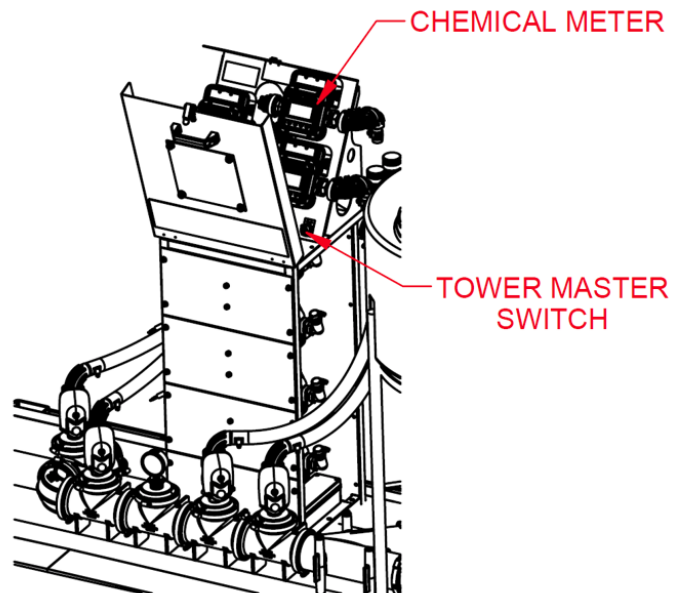
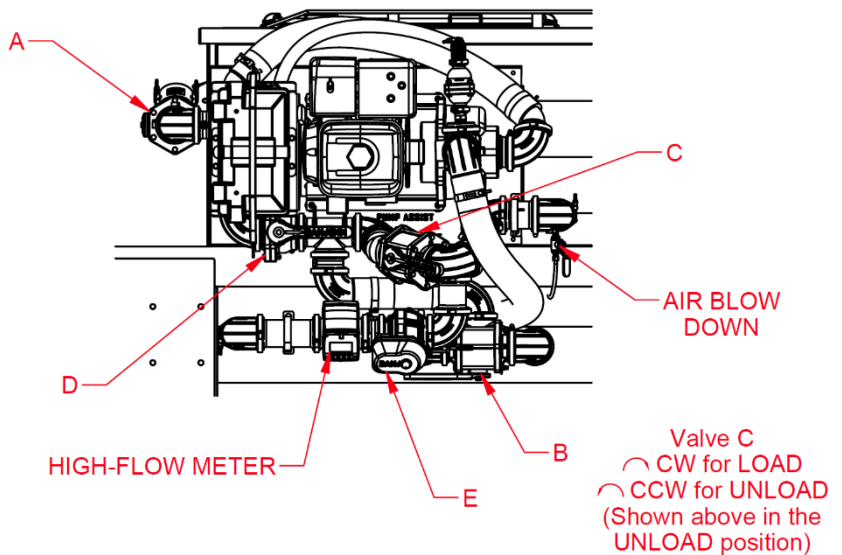
VALVE CLUSTER/FILL BANK
 VALVE DESIGNATION

FILLING WITH THE ONBOARD PUMP

(ACTIVE FILL)

1. Close valves A through E
2. Turn valve C, CW to the LOAD Position
3. Remove FILL PORT CAP and attach feed line to trailer FILL PORT
4. Open valve A and B, depending which tank is to be filled
5. Program HIGH-FLOW METER to desired tank fill volume (HIGH-FLOW METER controls electric valve E)
6. Meters must be calibrated properly. For Meter/FastBatch multijet operation please reference your Dura Products product manual
7. Start the batch on the HIGH-FLOW METER (Valve E should open)
8. Start pump engine (The speed of liquid flow should be controlled by the speed of the pump)
9. Once the tank has been filled to the programmed level valve E should close automatically, stop the pump
10. Close valves A through E
11. Decouple feed line and replace the FILL PORT CAP

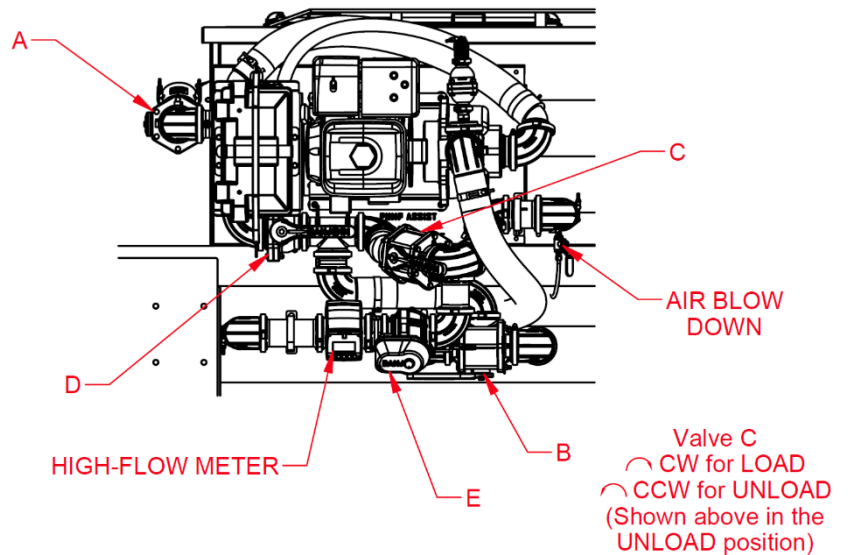
Valve A to the Fill Port
 Valve B to the Front Tank/Rear Tank
 Valve C to the Mixing System or Tank Fill Valve
 Valve D to the Tank Fill/Pump Inlet
 Valve E to the Mixing System or Tank Fill Valve



FILLING WITHOUT THE ONBOARD PUMP (ACTIVE FILL)

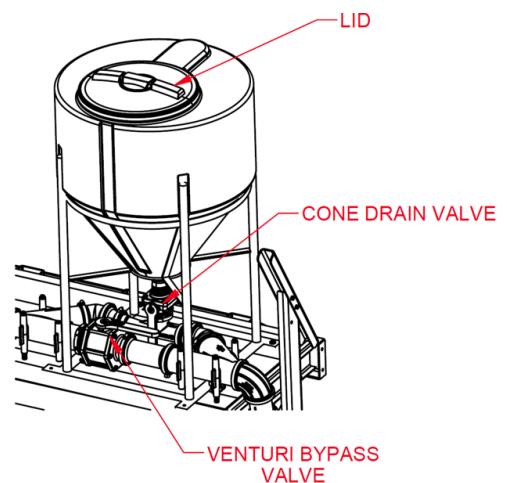
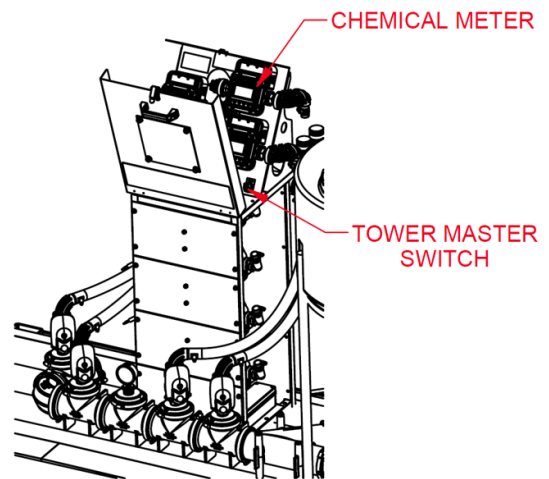
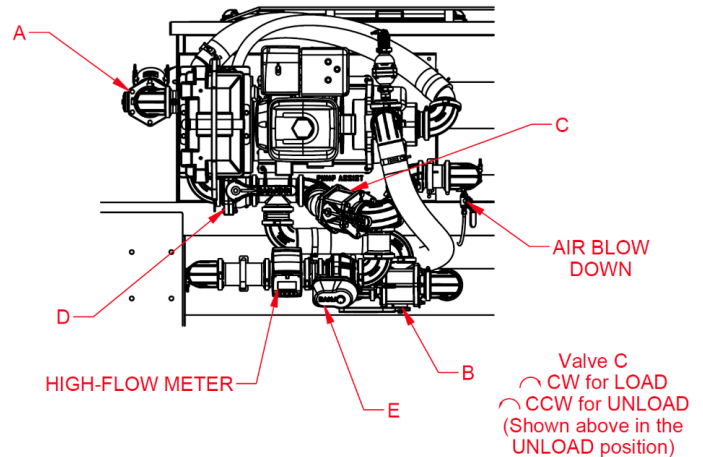
1. Close valves A through E
2. Turn valve C, CW to the LOAD Position
3. Remove FILL PORT CAP and attach feed line to trailer FILL PORT
4. Open valve A, B, and D, depending which tank is to be filled
5. Start remote liquid pump
6. Once tank has been filled to the desired level, stop the remote liquid pump
7. Close valves A through E
8. Decouple feed line and replace the FILL PORT CAP

Valve A to the Fill Port
Valve B to the Front Tank/Rear Tank
Valve C to the Mixing System or Tank Fill Valve
Valve D to the Tank Fill/Pump Inlet
Valve E to the Mixing System or Tank Fill Valve



1. Close all valves. (The jug rinse valve is located near the top of the INDUCTOR CONE)
2. Couple DISCHARGE NOZZLE to the vehicle to fill.
3. Open the valve on the DISCHARGE NOZZLE. (For loads that you do not intend to use the INDUCTOR, open the VENTURI BYPASS VALVE.)
4. Add necessary product to the cone tank or couple the hose from the liquid tote you wish to draw from to the PUMP PORT.
5. ALL meters must be calibrated properly and all air purged from the chemical lines before use. (For Meter/FastBatch MultiJet operation reference the Dura Products Manual)
6. Open valves B & D depending on the tank you wish to draw from
7. Turn valve C, CCW to the UNLOAD position
8. Program the HIGH-FLOW METER to desired tank fill volume (It controls the electric valve E)
9. Program the CHEMICAL METERS to desired prescription volume (TOWER master switch and individual electric pump switches must be turned on to pump chemical)
10. Start the batch on the HIGH-FLOW METER (Valve E should open)
11. Start pump engine (The liquid flow speed should be controlled by the pump speed) If you do not intend to add chemical to the load skip to Step 16
12. Open the CONE DRAIN VALVE to draw product into the line from the cone
13. When chemical has been dispensed into the line, use the JUG RINSE VALVE at the top of the cone to remove any remaining
14. Open VENTURI BYPASS VALVE to continue discharging at high volume (the VENTURI BYPASS VALVE may need to be partially shut to reduce line pressure for proper chemical injection)
15. Start the batch on each of the individual CHEMICAL METERS you programmed in Step 9
16. When the vehicle has been filled to the desired level stop the pump and turn valve C, CW to the LOAD position
17. Open the air blow down valve located on the pump discharge after valve C to push any liquid down the line.
18. Close the valve on the DISCHARGE NOZZLE and replace in the mount on the trailer
19. Close valves A through E

Valve A to the Fill Port
 Valve B to the Front Tank/Rear Tank
 Valve C to the Mixing System or Tank Fill Valve
 Valve D to the Tank Fill/Pump Inlet
 Valve E to the Mixing System or Tank Fill Valve

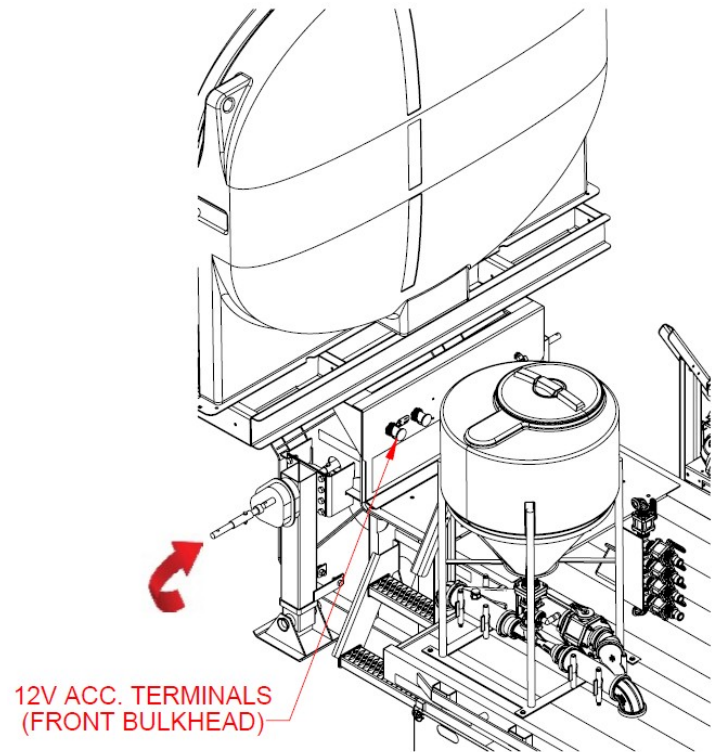


FUSES AND LOCATIONS

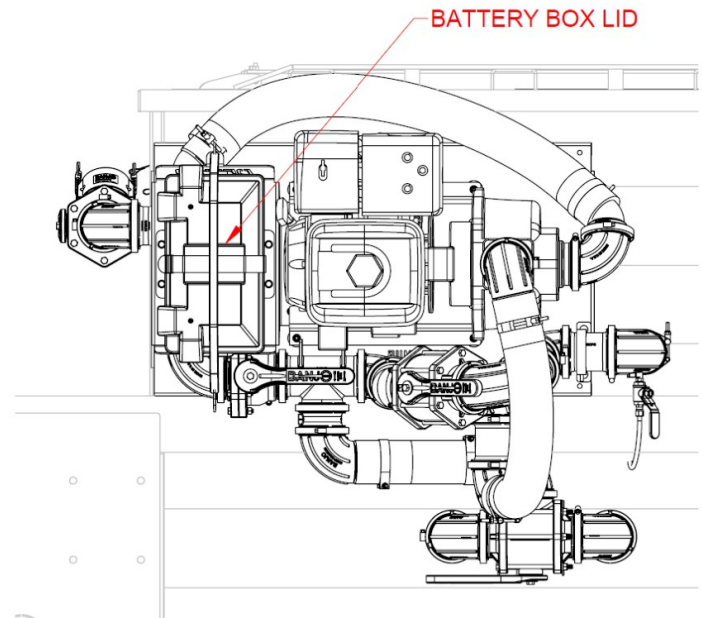
1. 12V Acc Battery Charger Fuse
- Located behind the FRONT BULKHEAD near the 12V ACC. TERMINALS
- 15A MINI BLADE FUSE
2. 12V Main Trailer Power Fuse
- Located underneath the battery box lid, on top of the battery
- 40A MAXI BLADE FUSE

Additional Fuses w/FastBatch™ MultiJet System

3. 12V 3" Electric Valve Fuse
- Located underneath the battery box lid, on top of the battery
- 30A ATO BLADE FUSE
4. 12V FastBatch™ DI Tower Fuse
- Located underneath the battery box lid, on top of the battery
- 150A MEGA BOLT DOWN FUSE



WARNING! Unfused electrical connections or incorrect fuse ratings can pose a greater risk for fire. Use caution when working with electricity!



Issue:	Check:
12V Hose Reel won't rewind	<ul style="list-style-type: none"> - Main fuse in battery box is blown - Battery connections are dirty/loose
12V Acc Battery not charging	<ul style="list-style-type: none"> - Charger fuse under front skid is blown - Battery connections are dirty/loose - Circuit breaker on motor near ignition key has tripped - Battery health is low - Main fuse in battery box is blown
No air coming out of Air Blow Down	<ul style="list-style-type: none"> - Trailer air tank is below the minimum required pressure
Flow Meter won't power on	<ul style="list-style-type: none"> - Battery in flow meter is drained or low
FASTBATCH™ MULTIJET SYSTEM	
Issue:	Check:
3" Flow Meter won't power on	<ul style="list-style-type: none"> - Battery in flow meter is drained or low - Battery connection is loose behind faceplate
3" Flow Meter measuring incorrect volume	<ul style="list-style-type: none"> - Improper calibration (specific to each fluid/chemical) - Too much vibration at flow meter - Aeration (meters can measure air flow in water lines)
3" Electric Valve not actuating	<ul style="list-style-type: none"> - Valve fuse in battery box is blown - Battery connections are dirty/loose - Low battery voltage - Loose connection behind 3" flow meter faceplate
FastBatch™ DI Tower won't power on	<ul style="list-style-type: none"> - FastBatch™ DI Tower Fuse in battery box is blown - Battery connections are dirty/loose - Low battery voltage

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**Demco warranty policies, operator manuals, and product registration
can be found online:**

www.demco-products.com