



Hopper Spreader Pre-Wet Kit 30, 75 & 225 Gallon Systems

#83715, 83720, 83725

Owner's Manual/Installation Instructions/Parts List

⚠ CAUTION

Read this manual before installing or
operating the pre-wet kit.

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SAFETY

SAFETY DEFINITIONS

⚠ WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious personal injury.

⚠ 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.

NOTE: Indicates a situation or action that can lead to damage to your pre-wet system and vehicle or other property. Other useful information can also be described.

SAFETY PRECAUTIONS

Improper installation and operation could cause personal injury and/or equipment and property damage. Read and understand labels and the Owner's Manual before installing, operating, or making adjustments.

⚠ WARNING

- Driver to keep bystanders a minimum of 25 feet away from operating pre-wet system.
- Before working with the pre-wet system, secure all loose-fitting clothing and unrestrained hair.
- Before operating the pre-wet system, verify that all safety guards are in place.
- Before servicing the pre-wet system, wait for conveyor and spinner to stop.
- Do not climb into or ride on pre-wet system.

⚠ WARNING

Overloading could result in an accident or damage. Do not exceed GVWR or GAWR ratings as found on the driver-side door cornerpost of the vehicle. See Loading section to determine maximum volumes of spreading material.

⚠ WARNING

- The drive shafts, conveyor, and spinner assemblies transmit great amounts of power and, accordingly, are hazardous when in operation. All maintenance, inspections, or operator adjustments must be made with all source power OFF.
- Keep pre-wet system and surrounding area clear of personnel and property when operating.
- When traveling, especially fully loaded, this machine may have a high center of gravity, and care should be exercised when turning or driving on banked surfaces.
- Unauthorized modifications to the pre-wet system and related components may impair the function and/or safety.

SAFETY

⚠ CAUTION

- Do not operate a pre-wet system in need of maintenance.
- Before operating the pre-wet system, reassemble any parts or hardware removed for cleaning or adjusting.
- Before operating the pre-wet system, remove materials such as cleaning rags, brushes, and hand tools from the pre-wet system.
- While operating the pre-wet system, use auxiliary warning lights, except when prohibited by law.
- Tighten all fasteners according to the Torque Chart. Refer to Torque Chart for the recommended torque values.

⚠ CAUTION

Disconnect electric and/or hydraulic power and tag out if required before servicing or performing maintenance.

⚠ CAUTION

DO NOT leave unused material in hopper. Material can freeze or solidify, causing unit to not work properly. Empty and clean after each use.

⚠ CAUTION

Brine is typically a clear to cloudy white liquid with no odor. It may be irritating to the eyes, skin and respiratory system. Refer to the Brine Solution Safety Data Sheet (SDS) for more information.

PERSONAL SAFETY

- Remove ignition key and put the vehicle in PARK or in gear to prevent others from starting the vehicle during installation or service.
- Wear only snug-fitting clothing while working on your vehicle or pre-wet system.
- Do not wear jewelry or a necktie, and secure long hair.
- Wear safety goggles to protect your eyes from battery acid, gasoline, dirt, dust, and brine.
- Avoid touching hot surfaces such as the engine, radiator, hoses, and exhaust pipes.
- Always have a fire extinguisher rated BC handy, for flammable liquids and electrical fires.

CELL PHONES

A driver's first responsibility is the safe operation of the vehicle. The most important thing you can do to prevent a crash is to avoid distractions and pay attention to the road. Wait until it is safe to operate Mobile Communication Equipment such as cell phones, text messaging devices, pagers, or two-way radios.

VENTILATION

⚠ WARNING

Vehicle exhaust contains lethal fumes. Breathing these fumes, even in low concentrations, can cause death. Never operate a vehicle in an enclosed area without venting exhaust to the outside.

SAFETY

BATTERY SAFETY

⚠ CAUTION

Batteries normally produce explosive gases, which can cause personal injury. Therefore, do not allow flames, sparks, or lit tobacco to come near the battery. When charging or working near a battery, always cover your face and protect your eyes, and also provide ventilation.

- Batteries contain sulfuric acid, which burns skin, eyes, and clothing.
- Disconnect the battery before removing or replacing any electrical components.

NOISE

Airborne noise emission during use is below 70 dB(A) for the pre-wet system operator.

VIBRATION

Operating pre-wet system vibration does not exceed 2.5 m/s² to the hand-arm or 0.5 m/s² to the whole body.

TORQUE CHART

⚠ CAUTION

Read instructions before assembling. Fasteners should be finger tight until instructed to tighten according to the Torque Chart. Use standard methods and practices when attaching the pre-wet system, including proper personal protective safety equipment.

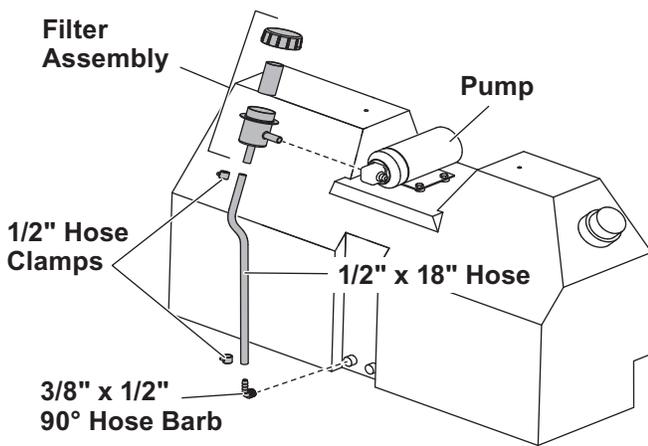
Recommended Fastener Torque Chart					
Inch Fasteners Grade 5 and Grade 8					
Size	Torque (ft-lb)		Size	Torque (ft-lb)	
	 Grade 5	 Grade 8		 Grade 5	 Grade 8
1/4-20	8.4	11.9	9/16-12	109	154
1/4-28	9.7	13.7	9/16-18	121	171
5/16-18	17.4	24.6	5/8-11	150	212
5/16-24	19.2	27.3	5/8-18	170	240
3/8-16	30.8	43.6	3/4-10	269	376
3/8-24	35.0	49.4	3/4-16	297	420
7/16-14	49.4	69.8	7/8-9	429	606
7/16-20	55.2	77.9	7/8-14	474	669
1/2-13	75.3	106.4	1-8	644	909
1/2-20	85.0	120.0	1-12	704	995
Metric Fasteners Class 8.8 and 10.9					
Size	Torque (ft-lb)		Size	Torque (ft-lb)	
	 Class 8.8	 Class 10.9		 Class 8.8	 Class 10.9
M6 x 1.00	7.7	11.1	M20 x 2.50	325	450
M8 x 1.25	19.5	26.9	M22 x 2.50	428	613
M10 x 1.50	38.5	53.3	M24 x 3.00	562	778
M12 x 1.75	67	93	M27 x 3.00	796	1139
M14 x 2.00	107	148	M30 x 3.50	1117	1545
M16 x 2.00	167	231	M33 x 3.50	1468	2101
M18 x 2.50	222	318	M36 x 4.00	1952	2701
These torque values apply to fasteners except those noted in the instructions.					

INSTALLATION INSTRUCTIONS – 30 GALLON KIT (83715)

PUMP, HOSES, AND NOZZLE

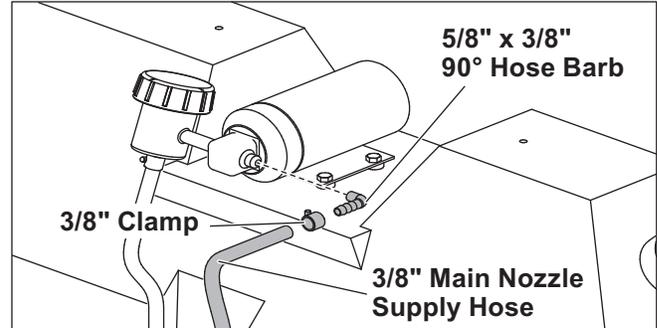
NOTE: Apply thread sealant to all threaded connections when installing the pump system.

1. The 30 gallon pre-wet brine tank is installed and secured in the truck bed, not mounted to the spreader. Choose a location for the brine tank that will not interfere with the spreader harnessing or any other spreader accessories.
2. Measure the distance between the selected location and the end of the truck bed closest to the spinner drive. Cut a length of the supplied 3/8" PVC hose to that measurement for the main nozzle supply hose.
Cut an additional 10" length for the nozzle supply hose. Retain both hoses for later installation.
3. Remove the spreader from the vehicle for easier access when installing the brine tank.
4. Assemble the filter unit as shown below. Install the filter assembly to the pump inlet. Install the 1/2" x 18" hose to the end fitting of the filter assembly and secure with a 1/2" hose clamp.



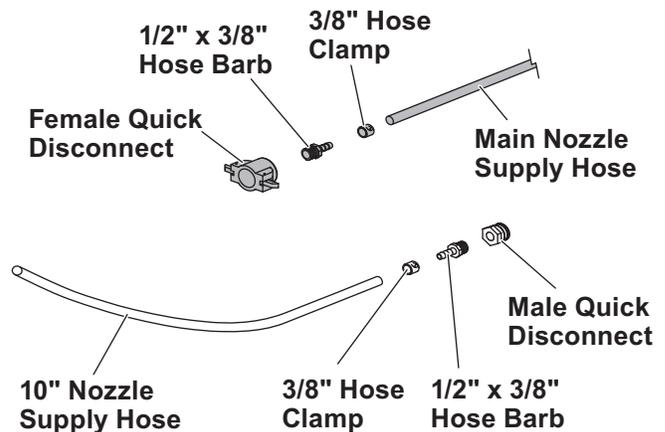
5. Install the 3/8" x 1/2" 90° hose barb to the lower tank port. Attach the other end of the 1/2" x 18" hose to the barb fitting as shown above and secure it with the other 1/2" hose clamp.

6. Install the 5/8" x 3/8" 90° hose barb to the pump outlet. Install the longer 3/8" main nozzle supply hose prepared in Step 2 to the barb and secure it with a 3/8" hose clamp.



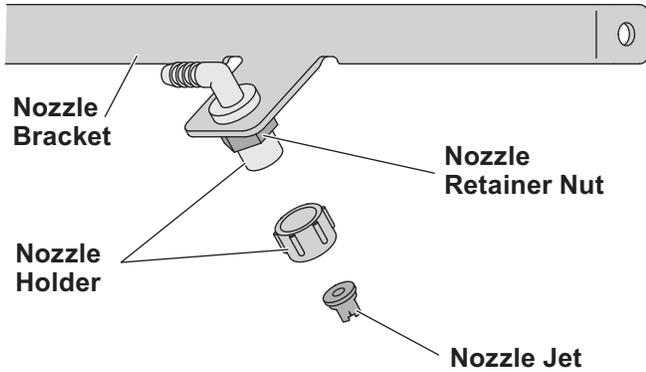
7. Assemble the female quick-disconnect to a 1/2" x 3/8" hose barb and install that assembly to the other end of the main nozzle supply hose. Secure with a 3/8" hose clamp.

Assemble the male quick-disconnect to a 1/2" x 3/8" hose barb as shown below and install that assembly to one end of the 10" nozzle supply hose prepared in Step 2. Secure with a 3/8" hose clamp.



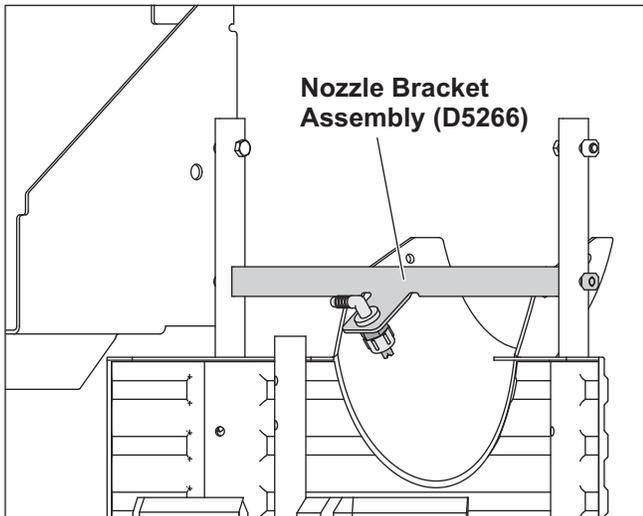
INSTALLATION INSTRUCTIONS – 30 GALLON KIT (83715)

8. Install the spray nozzle to the appropriate pre-wet nozzle bracket using the nozzle retainer nut. Install the nozzle jet into the nozzle holder.



9. Install the other end of the 10" nozzle hose to the nozzle holder and secure using a 3/8" hose clamp.
10. Place the assembled tank and plumbing in the truck bed at the location selected in Step 1. **Secure the tank to the vehicle using ratchet straps.**
11. Install spreader in the truck bed, following the instructions provided with the spreader.
12. Install the nozzle bracket assembly to the spinner/chute module as shown below, using the existing hardware from the spinner/chute module. Be sure to match the appropriate nozzle bracket assembly to the proper spinner/chute module.

VX-1500 Nozzle Assembly Configuration

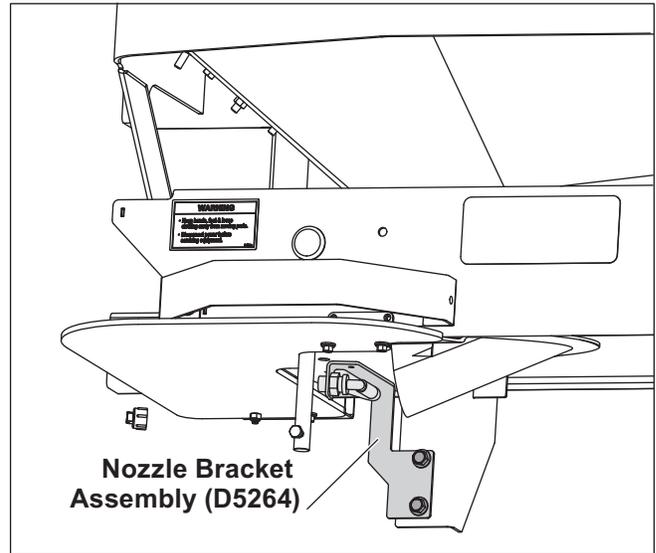


Some chute components not shown.

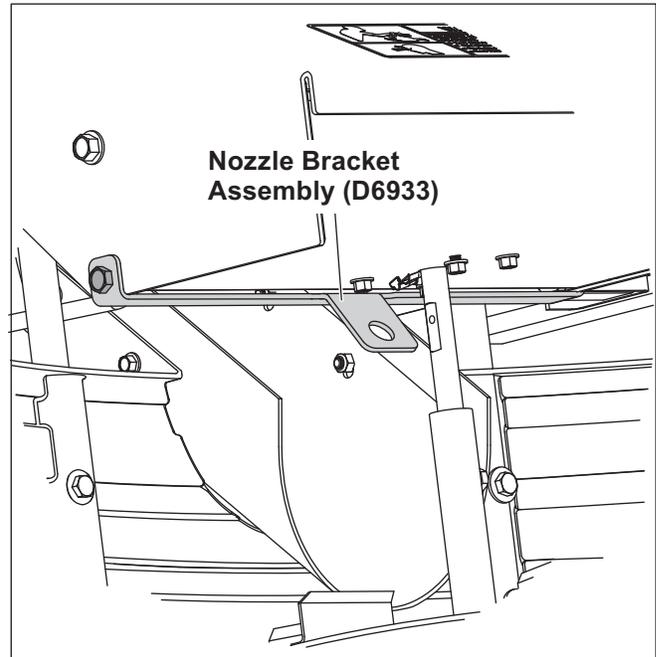
13. Route the main nozzle supply hose from the tank to the pre-wet nozzle bracket, being careful to avoid areas where the hose could become pinched or damaged. Connect the female and male disconnect fittings installed in Step 7.

14. Install the pump harness as instructed on page 15.
15. Flush and inspect the pre-wet system as described under "Final Set-Up" on page 18.

SP-1875-1 Nozzle Assembly Configuration



V-Pro™ Nozzle Assembly Configuration

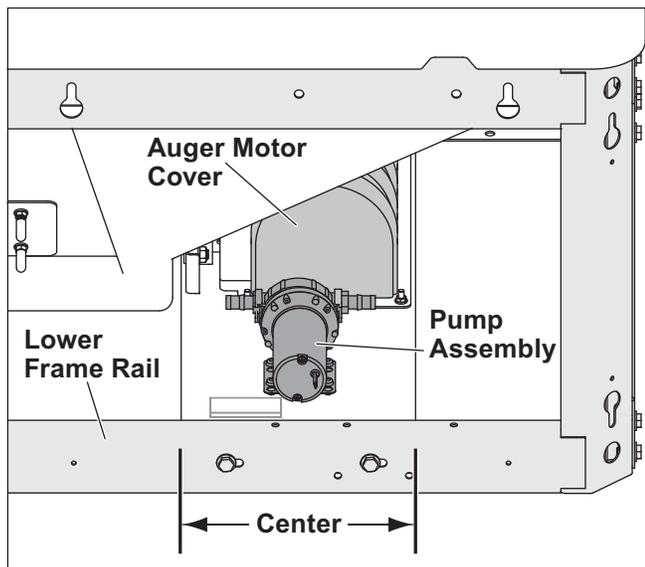


INSTALLATION INSTRUCTIONS – 75 & 225 GALLON KITS (83720, 83725)

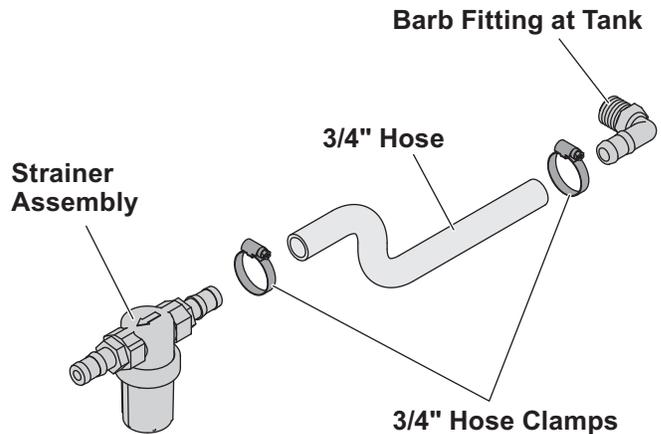
FRONT TANK AND PUMP

NOTE: Apply thread sealant to all threaded connections.

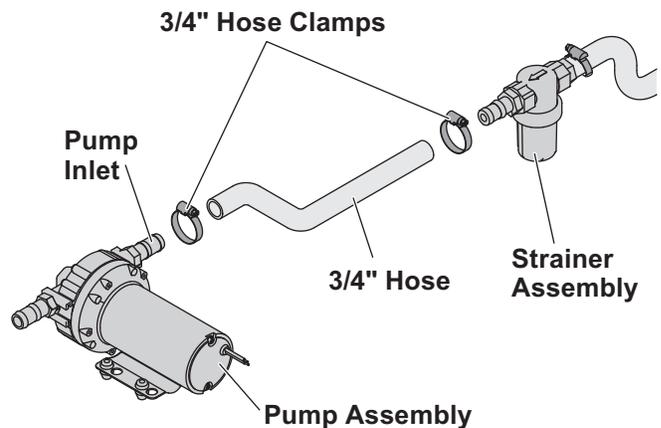
1. Remove the spreader from the vehicle before installing the pre-wet kit.
2. Remove the upper front rail of the spreader frame. Install the single 75 gallon tank onto the lower rail. This will help keep the tank locked in position. Reinstall the upper frame rail.
3. Install the 3/4" NPT plugs in all the open tank ports on the driver's side of the tank and the port closest to the vehicle cab on the passenger's side. Install a 3/4" 90° hose barb into the remaining open passenger-side port.
4. Position the pump between the spreader motor cover and the passenger-side lower rail, centering the pump front-to-back.



5. Install the pump to the spreader's auger drive mounting plate using four #10 x 2 self-drilling screws and #10 flat washers.
6. Cut a 16" length of 3/4" hose. Install the hose to the 90° hose barb installed in Step 3 and secure with a 3/4" hose clamp. Route the hose over the lower frame rail.



7. Install the end of the 3/4" hose to the strainer assembly inlet using a 3/4" hose clamp. Make sure to keep the strainer level when connecting the hose.
8. Measure the distance between the strainer assembly and the pump inlet port. Cut a length of 3/4" hose to fit. Install one end of the hose to the strainer assembly outlet and the other end to the hose barb on the pump inlet using 3/4" hose clamps.

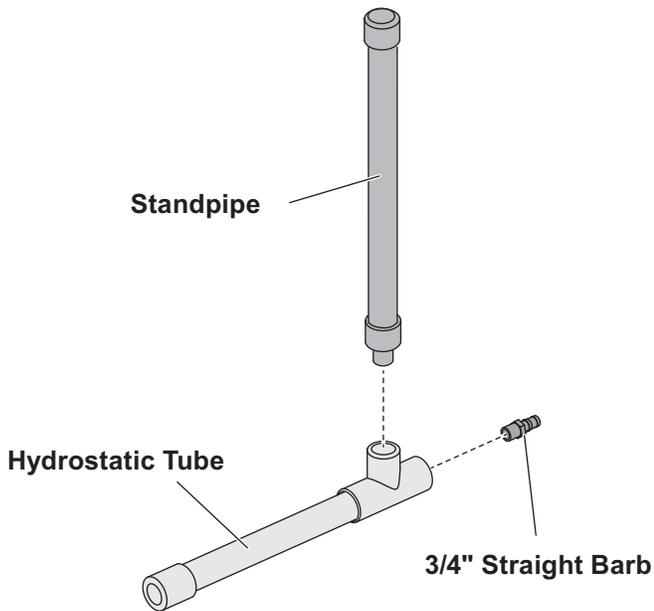


INSTALLATION INSTRUCTIONS – 75 & 225 GALLON KITS (83720, 83725)

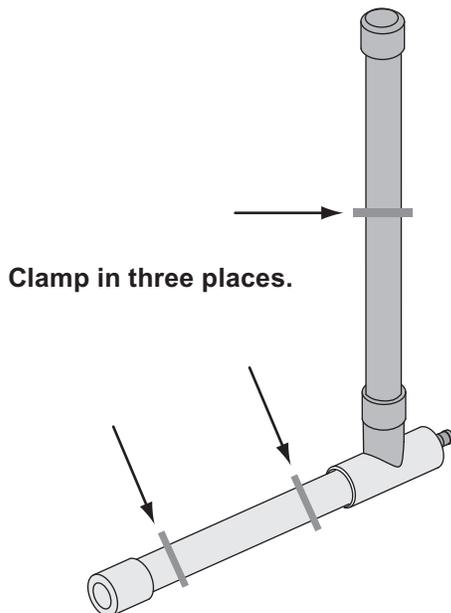
HYDROSTATIC TUBE ASSEMBLY

NOTE: Apply thread sealant to all threaded connections.

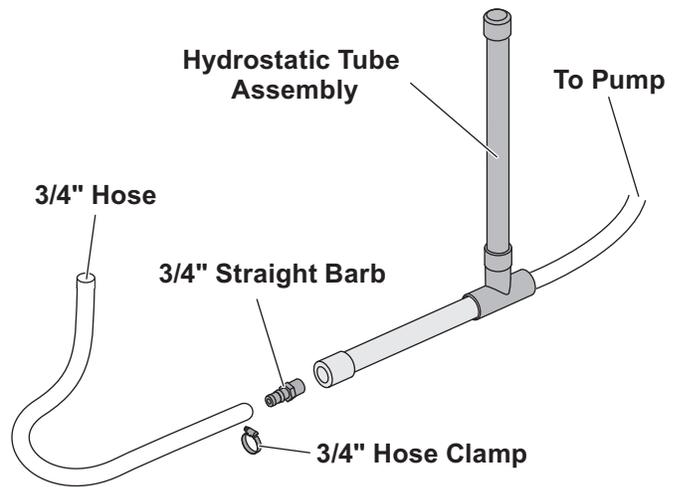
1. Thread together the hydrostatic tube and standpipe.



2. Install a 3/4" straight barb on the tee end of the tube assembly toward the pump.
3. Use the supplied conduit clamps and self drilling screws to secure the hydrostatic tube assembly to the spreader frame in three places.



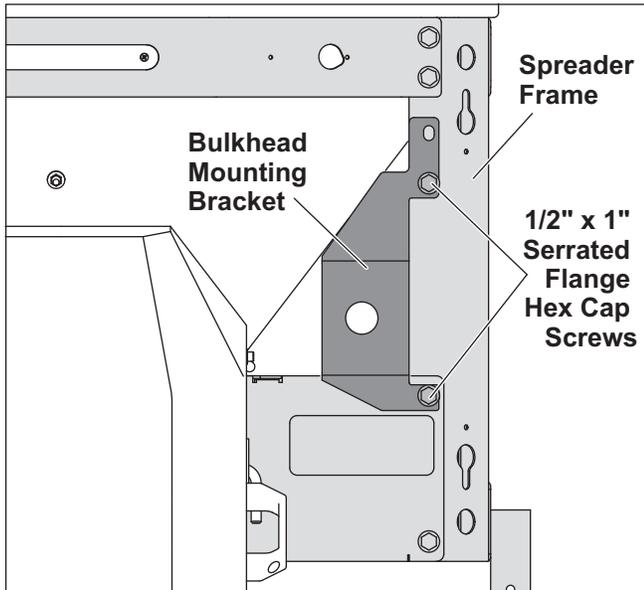
4. Measure and cut a length of 3/4" hose to run between the pump outlet and the hydrostatic tube assembly. Install the hose to the pump and hydrostatic tube using 3/4" hose clamps.
5. Install a 3/4" straight barb into the open end of the hydrostatic tube.
6. Measure from the end of the hydrostatic tube to the midpoint of the passenger-side rear cornerpost of the spreader frame. Cut a length of 3/4" hose to span that distance and install one end to the open 3/4" barb fitting using a 3/4" hose clamp.



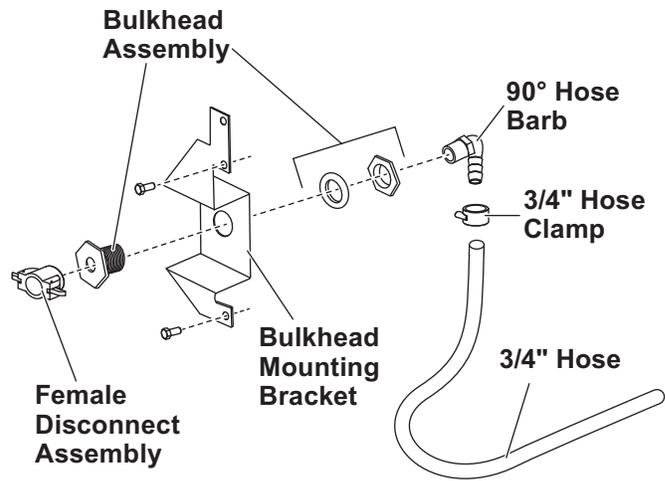
INSTALLATION INSTRUCTIONS – 75 & 225 GALLON KITS (83720, 83725)

BULKHEAD MOUNTING BRACKET AND FITTINGS

1. Install the bulkhead mounting bracket to the spreader frame as shown below, using two 1/2" x 1" serrated flange hex cap screws.



2. Install the bulkhead assembly and the female disconnect to the mounting bracket.
3. Install a 3/4" 90° hose barb on the gasket side of the bulkhead mounting bracket. Install the 3/4" hose from the hydrostatic tube assembly to the 90° barb using a 3/4" hose clamp.



Spreader frame not shown.

INSTALLATION INSTRUCTIONS – 75 & 225 GALLON KITS (83720, 83725)

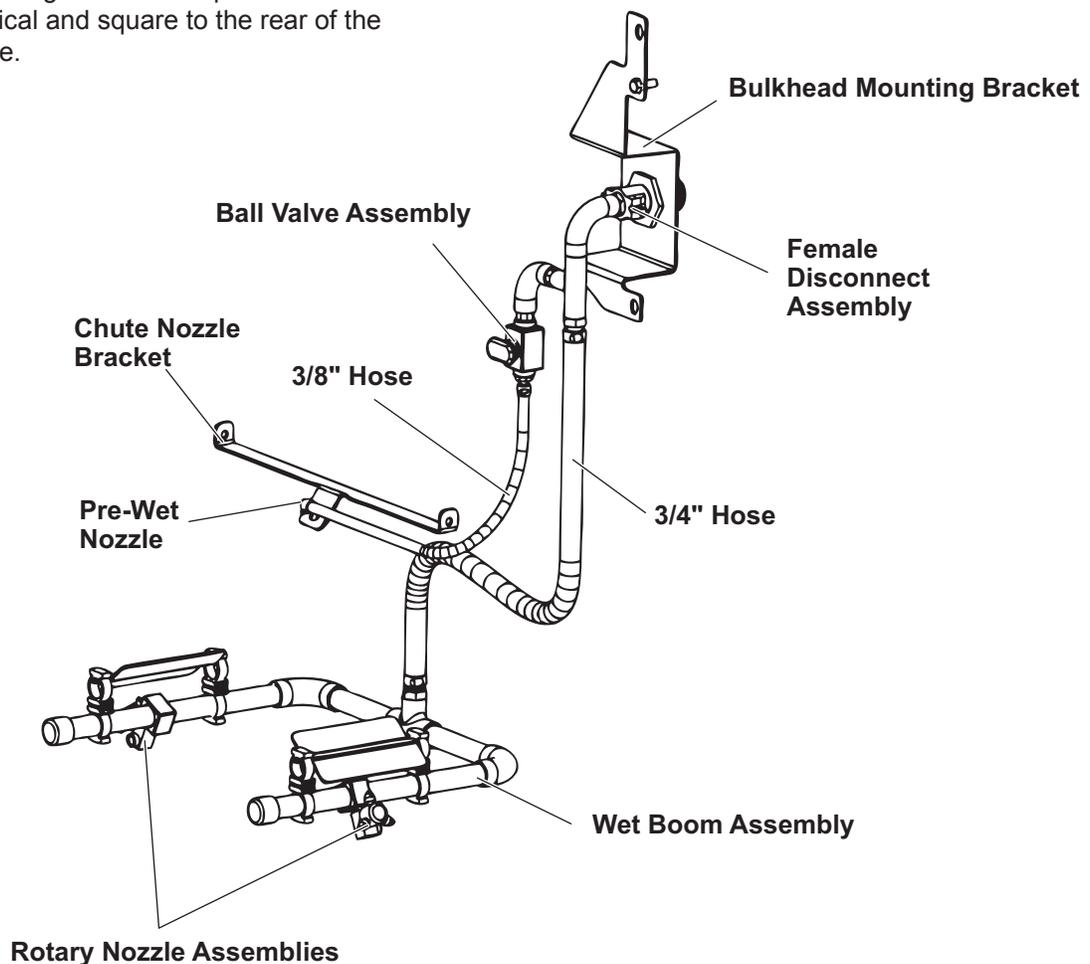
WET BOOM AND NOZZLE ASSEMBLIES

1. Attach the wet boom assembly to the spreader spinner guard tube using nylon zip ties and the wet boom bracket. Snug up the zip ties as needed.
2. Attach the rotary nozzle assemblies to the wet boom assembly. The rotary nozzles will fit into place around the drilled holes in the wet boom assembly. The nozzle bodies should be angled outward, away from the spinner.

When rotary nozzle alignment is correct, tighten each nozzle assembly until snug. DO NOT OVERTIGHTEN the rotary nozzle assemblies.

3. Install the ball valve assembly to the female disconnect assembly previously installed on the bulkhead mounting bracket. Keep the ball valve assembly vertical and square to the rear of the spreader frame.

4. Measure the distance from the barb on the wet boom assembly and the female disconnect assembly. Cut a length of 3/4" hose to fit and install the hose using 3/4" hose clamps.
5. Assemble the pre-wet nozzle body, nozzle, and retainer to the chute nozzle bracket. Install this assembly to the spreader's spinner/chute assembly using existing chute fasteners.
6. Install one end of the supplied 3/8" x 20" hose to the nozzle body. Install the other end to the barb on the ball valve assembly installed in Step 3. Secure with 3/8" hose clamps.

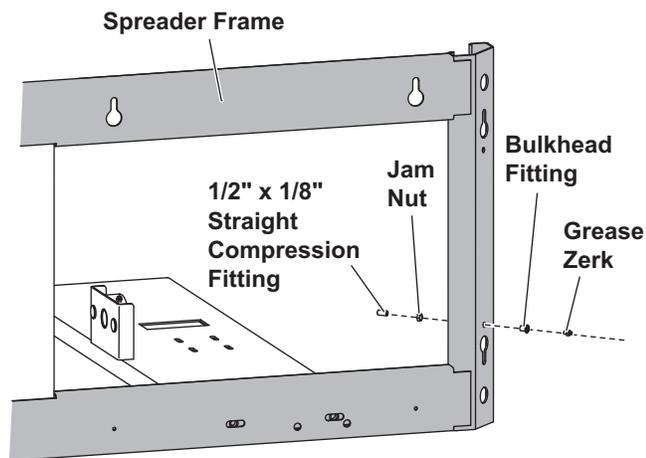


INSTALLATION INSTRUCTIONS – 225 GALLON KIT (83725)

GREASE ZERK EXTENSION

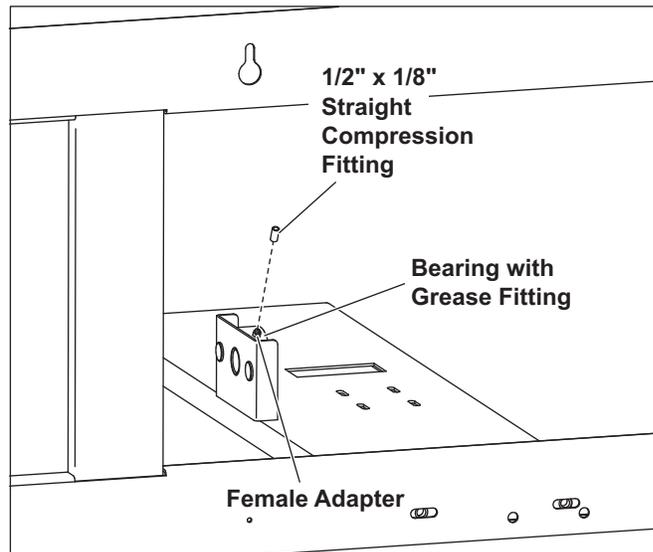
The grease fitting for the auger motor bearing will no longer be accessible once the dual saddle tanks are installed. The zerk extension enables access to that grease fitting.

1. Install the 1/8" brass bulkhead fitting with jam nut into an existing hole on the passenger-side front corner post of the spreader frame. Install the 1/8" brass grease zerk into the brass bulkhead fitting as shown.
2. Install a 1/2" x 1/8" straight compression fitting to the bulkhead fitting on the inside of the corner post.



Auger motor cover and pump not shown.

3. Remove the existing grease fitting on the auger motor bearing and replace it with the supplied 1/4" x 1/8" female adapter. Install a 1/2" x 1/8" straight compression fitting to the female adapter.

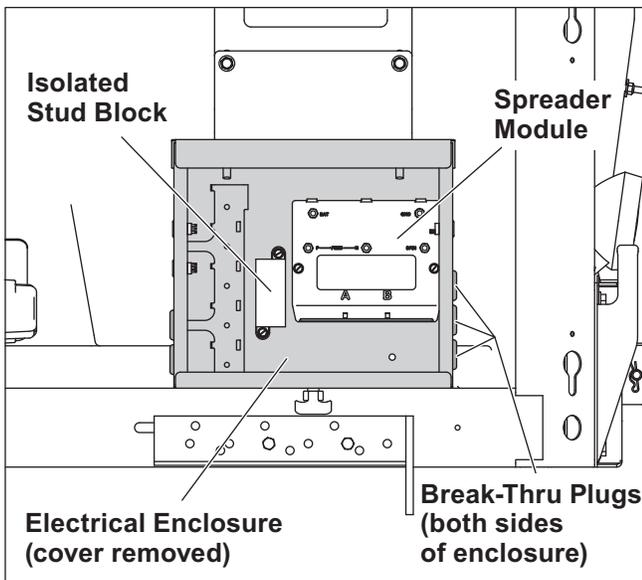


4. Install one end of the 1/4" nylon tubing to the 1/2" compression fitting installed in Step 3 and route the tubing out to the corner post. Cut the tubing to length and install the other end to the compression fitting on the corner post.

HARNESS INSTALLATION – 30 GALLON VX-1500, 75 & 225 GALLON SYSTEMS

Refer to the Pre-Wet Harness Wiring Diagram on the next page.

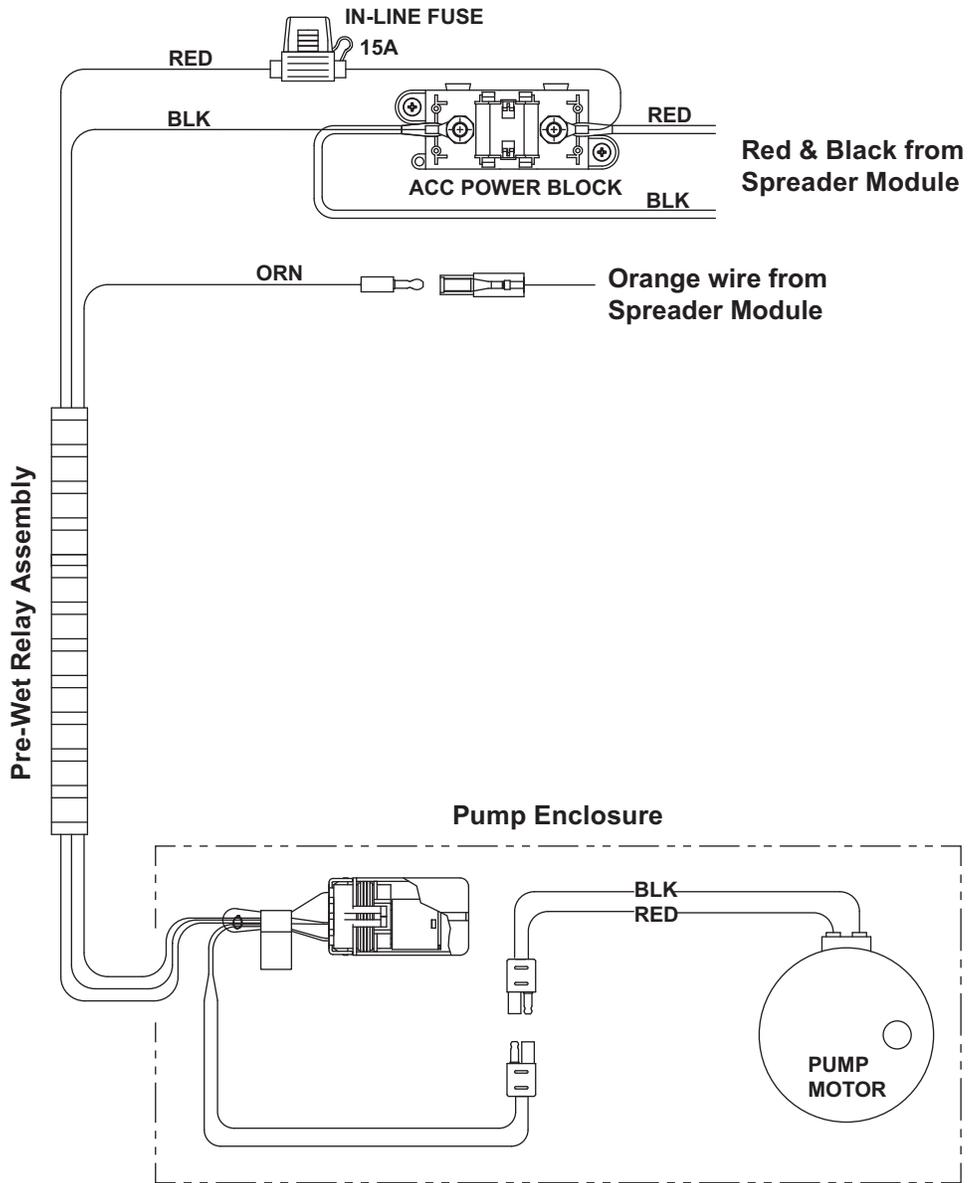
1. Remove the cover from the electrical enclosure located on the driver's side of the spreader.
2. Connect the molded plug on the pump motor to the molded plug on the pre-wet relay assembly harness. Apply dielectric grease when connecting the plugs.
3. Route the other end of the harness around the spreader to the electrical enclosure. Be sure to avoid running the harness where it could contact any moving parts or become caught or pinched.
4. Route the end of the harness into the electrical enclosure through one of the unused break-thru plugs.



5. Remove the cover from the isolated stud block.
6. Attach the ring terminal on the red wire of the pre-wet harness to the POSITIVE (+) terminal of the isolated stud block.
7. Attach the ring terminal on the black wire of the pre-wet harness to the NEGATIVE (-) terminal of the isolated stud block.
8. Connect the male bullet terminal of the pre-wet wire assembly harness to the orange wire coming from the spreader module. Apply dielectric grease when connecting the bullet terminal.
9. Reinstall the covers onto the isolated stud block and the electrical enclosure.
10. Secure all harnessing to prevent damage to the wires, coiling up any excess length as needed.
11. **75 gallon and 225 gallon systems only:** Install the pump cover using four 1/4" x 3/4" self-drilling screws. The cover is notched on both sides to accommodate the pump hoses.

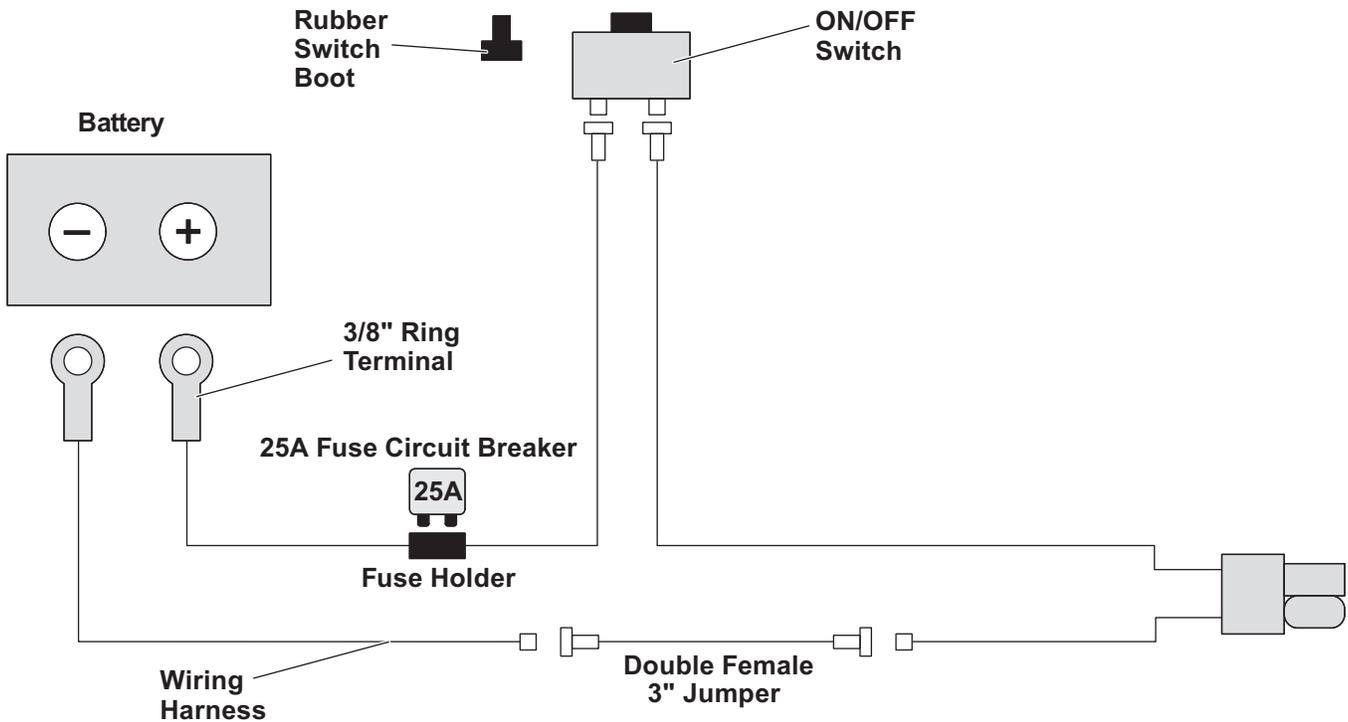
HARNESS INSTALLATION – 30 GALLON VX-1500, 75 & 225 GALLON SYSTEMS

PRE-WET HARNESS WIRING DIAGRAM



HARNESS INSTALLATION – 30 GALLON V-PRO™ AND SP-1875-1 SYSTEMS

PRE-WET HARNESS WIRING DIAGRAM



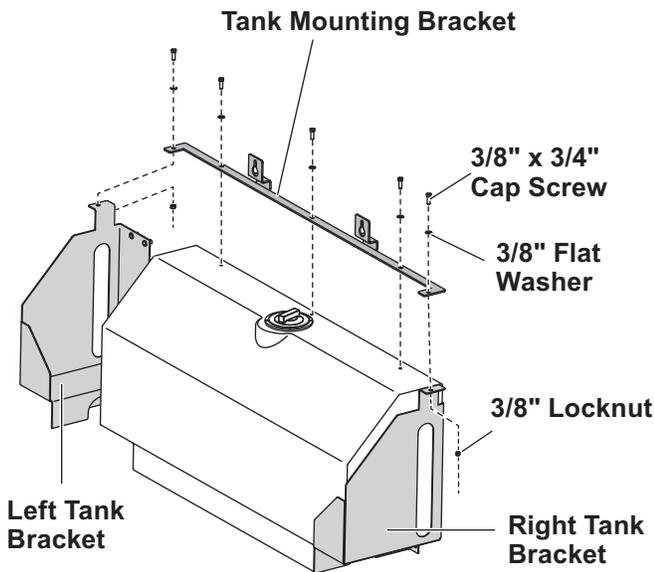
1. Install the switch at the desired location.
2. Run the spreader/vehicle harness from the rear of the vehicle to the switch area. Attach the female spade red wire to the switch. Leave the black wire for Step 5.
3. Route the power harness from the battery to the switch/control.
4. Attach the red lead to the POSITIVE (+) side of the battery, and the black lead to the NEGATIVE (-) side of the battery.
5. Attach the female spade red wire on the switch terminal. Using 3" double female black wire jumper, attach the black wire from the power harness to the black wire of the vehicle harness.
6. Install the rubber weatherproof boot on the switch before finishing the installation.
7. Apply dielectric grease to the terminals of the SAE plug at the rear of the vehicle.

SADDLE TANK INSTALLATION – 225 GALLON KIT (83725)

DUAL SADDLE TANKS – 225 GALLON KIT ONLY

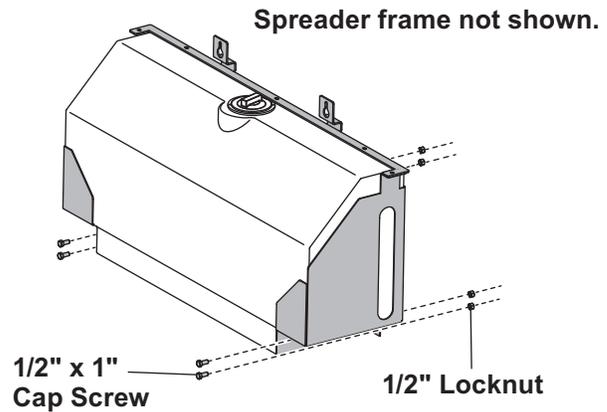
NOTE: Apply thread sealant to all threaded connections. The spreader must be removed from the vehicle during installation of the saddle tanks.

1. Fit the left and right tank brackets onto the ends of one saddle tank.
2. Install a tank mounting bracket to the left and right tank brackets using a 3/8" x 3/4" cap screw, 3/8" washer, and 3/8" locknut at each end. Install the mounting bracket to the tank using 3/8" x 1/4" cap screws and 3/8" washers in the three remaining bracket holes as shown below. Hand tighten.

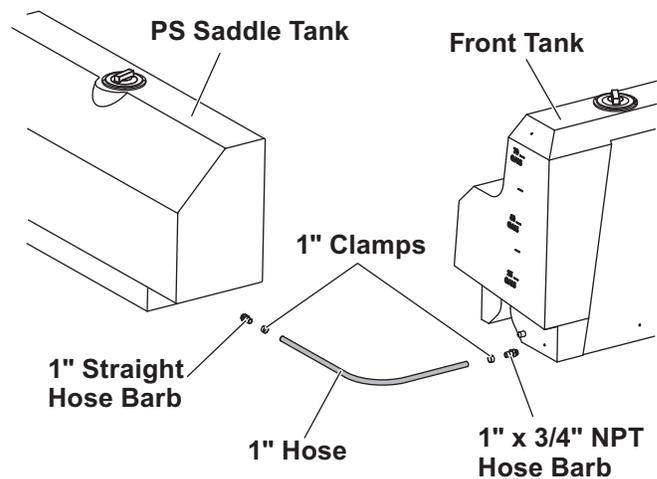


3. Rest the tank assembly against the passenger's side of the spreader frame in the desired position. Use the lower mounting holes in the tank brackets as a template to mark locations for drilling holes in the bottom spreader frame rail (two per bracket).
4. Set aside the tank and brackets assembly and drill 1/2" holes in bottom spreader frame rail as marked.
5. Hook two frame adjustment brackets to the top frame rail. You may have to pry over the plastic hopper to fit properly.

6. Set the tank assembly against the spreader frame. Align the frame adjustment brackets with the studs on the left and right tank brackets. Install the tank assembly to the frame using two 1/2" x 1" cap screws and 1/2" locknuts for each end bracket.



7. Tighten all fasteners according to the torque chart.
8. Repeat Steps 1 – 7 for the driver-side tank.
9. Install a 1" straight hose barb into one of the saddle tanks on the end closest to the previously installed front tank. Remove the NPT plug from the front tank and replace it with a 1" x 3/4" NPT hose barb. Measure and cut a length of 1" hose to fit between the saddle tank and front tank barb fittings.



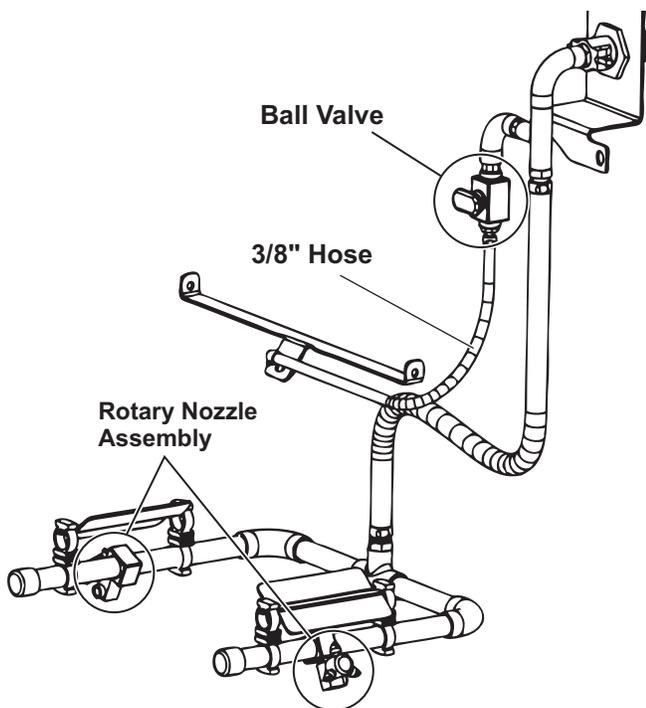
10. Install the length of 1" hose to the saddle tank and front tank fittings using 1" hose clamps.
11. Repeat Steps 9 and 10 on the opposite side.
12. Partially fill the tanks to check for any leaks.

INSTALLATION INSTRUCTIONS – ALL KITS

FINAL SET-UP

Once pre-wet kit installation is complete, install the spreader and pre-wet tanks to the vehicle. Refer to the spreader Owner's Manual and Installation Instructions for complete instructions.

1. Fill each tank with at least 10 gallons of water to test and flush the system.
2. **75 Gallon and 225 Gallon Systems Only:** Rotate the rotary nozzle assemblies to open position (one of the three nozzles will be pointing nearly straight down). Open the ball valve for the 3/8" hose leading to the pre-wet nozzle.



3. Check the system for any leaks, and correct as needed.
4. Run the system until the water has been depleted.
5. Inspect and clean strainer/filter.
 - **75 Gallon and 225 Gallon Systems:** Remove the strainer element from the strainer assembly between the tank and pump. Inspect the strainer element and clean as needed. Replace the strainer and reinstall the strainer bowl. *Use minimal force when tightening the strainer bowl.* Overtightening will damage the O-ring seal.
 - **30 Gallon System:** Open the filter assembly on the inlet side of the pump. Inspect the filter and clean as needed. Replace the filter and reinstall the cap on the filter assembly.
6. Your pre-wet system is now ready to be used with a wide variety of products. Follow the original manufacturer's handling, storage, and usage instructions for all de-icing materials.

MAINTENANCE

CLEAN-OUT INSTRUCTIONS

1. Disconnect nozzle assemblies at the quick-disconnect point at rear of vehicle.
2. Assemble a hose with a matching male quick-disconnect to hook-up at the quick-disconnect point.
3. Install the hose at the quick-disconnect point and put the other end of the hose in the storage tank.
4. Run the pump until the tank is empty.
5. Add water and RV antifreeze mix into the tank.
6. Reinstall the quick-disconnect from the nozzle assemblies.
7. Run the pump until it is running clean out of each nozzle.

PERIODIC MAINTENANCE

- Wash spreader and pre-wet components after each use to prevent material build-up and corrosion.
- To prevent corrosion, use dielectric grease on all electrical connections each time power or signal plugs are disconnected.
- Inspect unit for defects such as broken, worn, or bent parts.
- Inspect all tubing, hoses, and harnesses for cracks and leaks.
- Clean the line strainer as needed. Do this when the brine tanks are empty. To access the filter, unscrew the end cap of the line strainer, then remove the filter cover.
- Retighten bolts, screws, and other connections after first use and as needed.

CLEANING

- Clean the spreader and pre-wet tanks as desired. When power washing, keep spray away from electronics.
- Use caution if you are flushing the pumping system with water, as it will accumulate in the valves and can cause damage if the water inside freezes. Use antifreeze if unit is to be stored in freezing temperatures.

END OF SEASON AND STORAGE

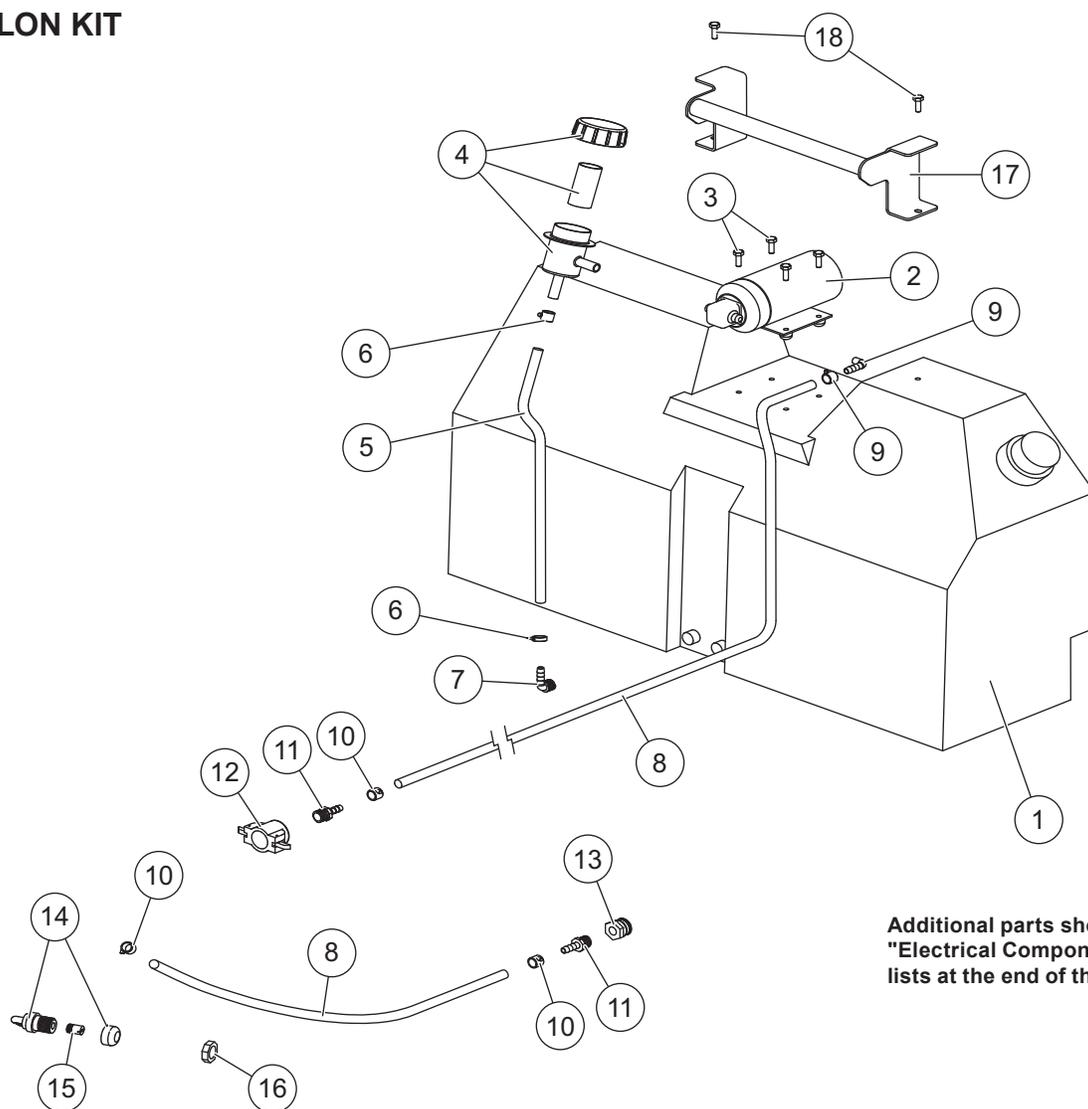
- Before long periods of storage, flush out the tanks and pumping system to remove salt build-up and prevent corrosion.
- Do not leave unused material in the spreader hopper or pre-wet tanks for a prolonged period of time.

TROUBLESHOOTING GUIDE

Problem	Possible Cause	Suggested Solution
Pump is not operating.	1. Loose electrical connection.	1. Check all electrical connections for corrosion.
	2. Blown fuse.	2. Replace the fuse.
	3. Pump seized.	3. Replace the pump.
Control shut down.	1. Loose electrical connection.	1. Check all electrical connections for corrosion.
	2. Electrical short.	2. Check for bare or burned wires.
	3. Control failure.	3. Replace the control.
	4. Blown fuse.	4. Replace the fuse.
Material being spread is not wet.	1. Pre-wet system is not running.	1. See "Pump is not operating" above.
Spray is uneven.	1. Spray hose is clogged.	1. Clean spray hose with fresh water.
	2. Spray hose is damaged.	2. Replace the spray hose.
Pump is leaking.	1. O-ring fittings are loose.	1. Verify that O-ring fittings are fully installed.
	2. O-rings are damaged or worn.	2. Replace the O-rings.
	3. Pump housing is damaged.	3. Replace the pump.

PARTS LIST

30 GALLON KIT



Additional parts shown in the "Electrical Components" parts lists at the end of this document.

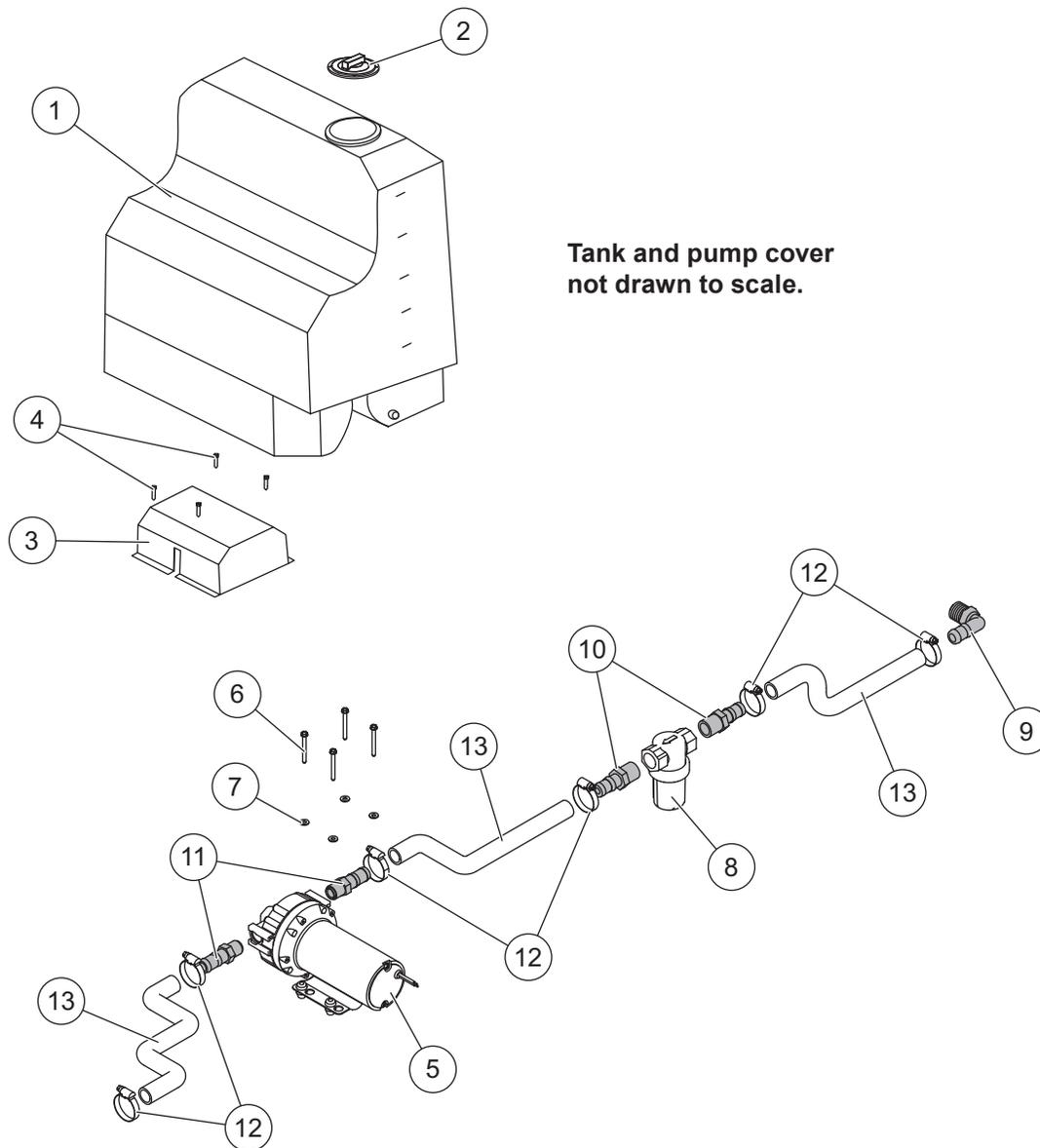
30 Gallon Pre-Wet Kit (83715)							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	D5263	1	30-gallon Tank	14	D6951	1	Nozzle Holder
2	D5265	1	Pump VDC, 2 gal/min	15	D5270	1	Nozzle Jet
3	D6854	4	1/4-20 x 1 Hex Cap Screw w/Flange	16	D6953	1	Nozzle Retainer Nut
4	D5267	1	Filter Assembly	17	D5262	1	Tank Handle/Hose Retainer
5	10824	1	Hose, 1/2 x 18 Clear PVC	18	D6131	2	1/4-20 x 1/2 Serrated Flange Hex Cap Screw
6	F50146	2	1/2 Hose Clamp	ns	D5264	1	Pre-Wet Nozzle Bracket – SP-1875-1
7	D5276	1	3/8 x 1/2 Hose Barb 90°	ns	D5266	1	Pre-Wet Nozzle Bracket – VX-1500
8	10823*	1	Hose, 3/8 x 80 PVC	ns	D5271	1	Ratchet Straps 1" (pkg of 2)
9	D5269	1	5/8 QA x 3/8 Hose Barb 90°	ns	72082	1	Relay Harness – VX-1500
10	D6930	4	3/8 Hose Clamp	ns	D6933	1	Pre-Wet Nozzle Bracket – V-Pro™
11	D6969	2	1/2 x 3/8 Hose Barb	ns	D6719	1	Relay Harness – SP-1875-1 / V-Pro
12	D5273	1	Female Quick Disconnect				
13	D5272	1	Male Quick Disconnect				

ns = not shown

* Service part hose is 80" long. The 83715 kit contains 216" of 3/8" hose; cut to length during installation.

PARTS LIST

FRONT TANK, PUMP, HOSES & FITTINGS (75 Gallon & 225 Gallon Systems)



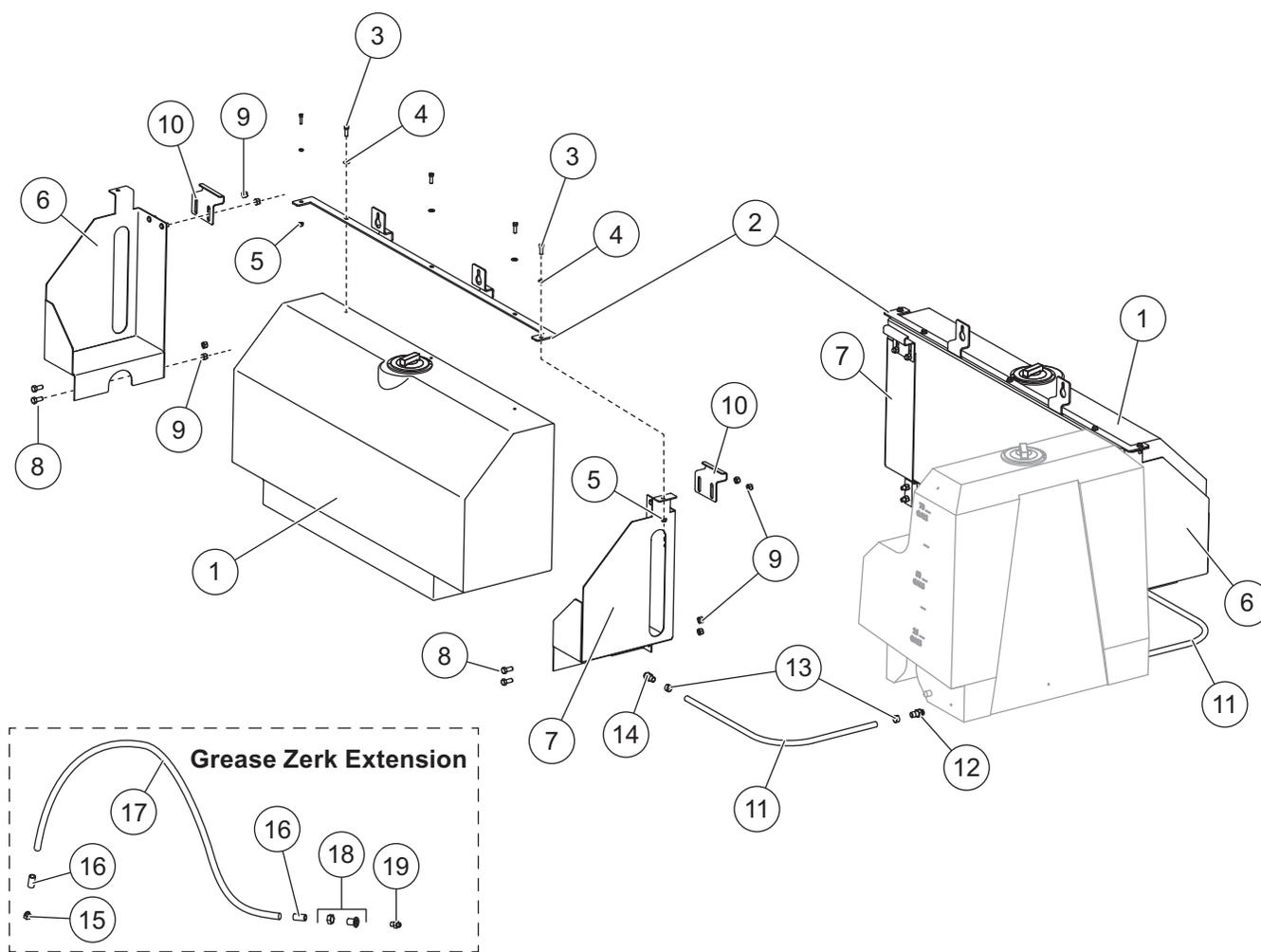
Tank and pump cover
not drawn to scale.

75 Gallon Tank, Pump, Hoses & Fittings							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	D6903	1	75-gallon Tank – Yellow	8	D6918	1	Strainer Assembly
2	D6904	1	4" Vented Cap	9	D6905	1	3/4 Hose Barb 90°
3	D6909	1	Pump Cover	10	D6928	2	3/4 Straight Hose Barb
4	D6910	4	1/4 x 3/4 Hex Head Self-Drilling Screw	11	D5609	2	1/2 Male Thread x 3/4 Hose Barb
5	72343	1	Pump – 50 gal/min, 60 psi	12	D6906	6	3/4 Hose Clamp
6	D6583	4	#10 x 2 Hex Washer-Head Self-Drilling Screw SS	13	10825	1*	Hose, 3/4 x 72 PVC
7	D5292	4	#10 Flat Washer Type A SS	ns	D6908	3	3/4 NPT Plug
SS = Stainless Steel				ns = not shown			

* Hose to be cut to length during installation.

PARTS LIST

DUAL SADDLE TANKS AND ZERK EXTENSION (225 Gallon System)



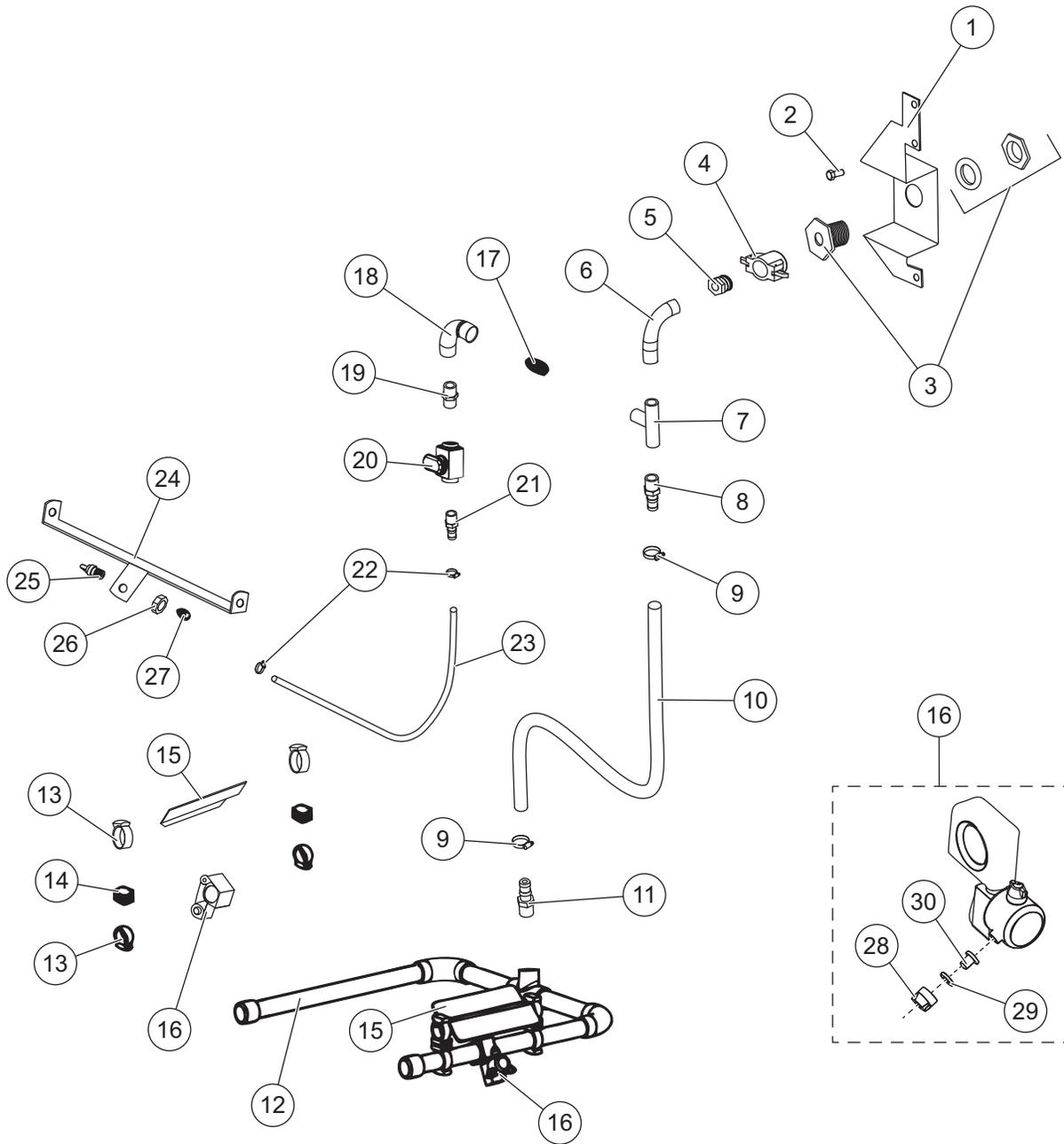
Dual Saddle Tanks and Grease Zerk Extension							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	D6970	2	75-gallon Saddle Tank	11	D6968	1*	Hose, 1 x 96 PVC
2	D6993	2	Tank Mounting Bracket	12	D6954	2	1 x 3/4 NPT Hose Barb
3	D6978	10	3/8-16 x 3/4 Hex Cap Screw SS	13	D6963	4	1" Hose Clamp
4	D4313	10	3/8 Flat Washer	14	D6967	2	1" Straight Hose Barb
5	T30728	4	3/8-16 Locknut	15	D6985	1	1/4-28 x 1/8 Female Adapter
6	D6991	2	Tank Bracket – Left	16	D6984	2	1/4 x 1/8 Straight Compression Fitting
7	D6992	2	Tank Bracket – Right	17	D6986	1	Nylon Tubing, 1/4 x 48
8	D6528	8	1/2-13 x 1 Serrated Flange Cap Screw	18	D6982	1	1/8 Brass Bulkhead Fitting w/Jam Nut
9	D5535	16	1/2-13 Serrated Flange Locknut	19	D6983	1	1/8 Grease Zerk
10	D5315	4	Frame Bracket				

SS = Stainless Steel

* Hose to be cut to length during installation.

PARTS LIST

CHUTE AND WET BOOM NOZZLE ASSEMBLY – 75 Gallon & 225 Gallon Systems

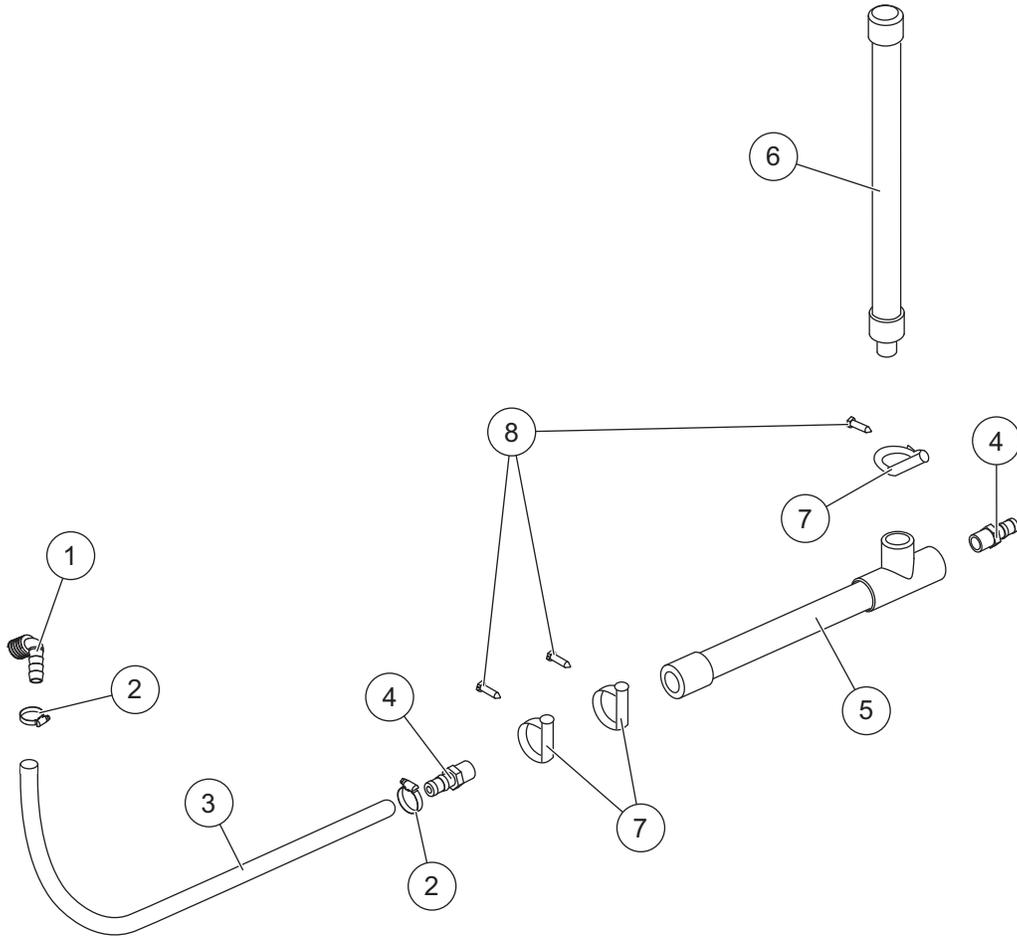


PARTS LIST

Chute and Wet Boom Nozzle Assembly							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	D6921	1	Bulkhead Mounting Bracket	15	D6937	2	Rotary Nozzle Deflector
2	D6528	1	1/2-13 x 1 Serrated Flange Cap Screw	16	D6939	2	Rotary Nozzle Assembly
3	D6917	1	Bulkhead Coupling	17	D6925	1	Reducer, 3/4-1/2
4	D6916	1	Female Quick Disconnect	18	D6923	1	Street Elbow, 90° 1/2
5	D6922	1	Male Disconnect	19	D6920	1	Close Nipple 1/2
6	D6924	1	Street Elbow, 90° 3/4	20	D6927	1	Ball Valve Assembly 1/2
7	D6926	1	3/4 Tee	21	D6929	1	1/2 x 3/8 Straight Hose Barb
8	D6928	1	3/4 Straight Hose Barb	22	D6930	2	3/8 Hose Clamp
9	D6906	2	3/4 Hose Clamp	23	D6931	1	Hose, 3/8 x 20 PVC
10	D6934	1	Hose, 3/4 x 36 PVC	24	D6933	1	Chute Nozzle Bracket
11	D6944	1	1 x 1/2 Straight Hose Barb	25	D6951	1	Pre-Wet Nozzle Body
12	D6936	1	Wet Boom Assembly PVC	26	D6953	1	Nozzle Retainer Nut
13	D6938	8	Nylon Zip Tie	27	D6952	1	Pre-Wet Nozzle
14	D6935	4	Wet Boom Bracket				
Item 16				D6939 Rotary Nozzle Assembly			
28	D6956	2	Nozzle Cap – Red	30	D6958	2	High-Flow Nozzle
	D6957	2	Nozzle Cap – Green		D6959	2	Low-Flow Nozzle
	D6955	2	Nozzle Cap – Yellow		D6960	2	80° Fan Nozzle
29	D6961	6	Gasket				

PARTS LIST

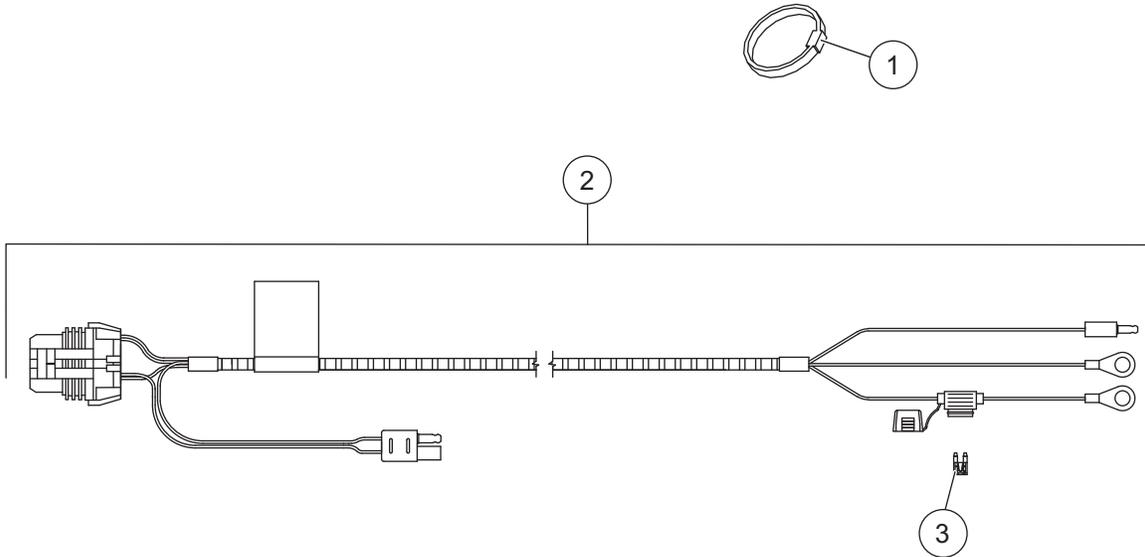
HYDROSTATIC TUBE ASSEMBLY – 75 Gallon & 225 Gallon Systems



Hydrostatic Tube Assembly							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	D6905	1	3/4 Hose Barb 90°	5	D6912	1	Hydrostatic Tube
2	D6906	2	3/4 Hose Clamp	6	D6942	1	1-1/2 x 19 Stand Pipe
3	D6911	1	Hose, 3/4 x 21 PVC	7	D6913	3	1-1/2 Conduit Clamp
4	D6928	2	3/4 Male Thread x 3/4 Hose Barb	8	D6914	3	#10 x 3/4 Hex Head Self-Drilling Screw

PARTS LIST

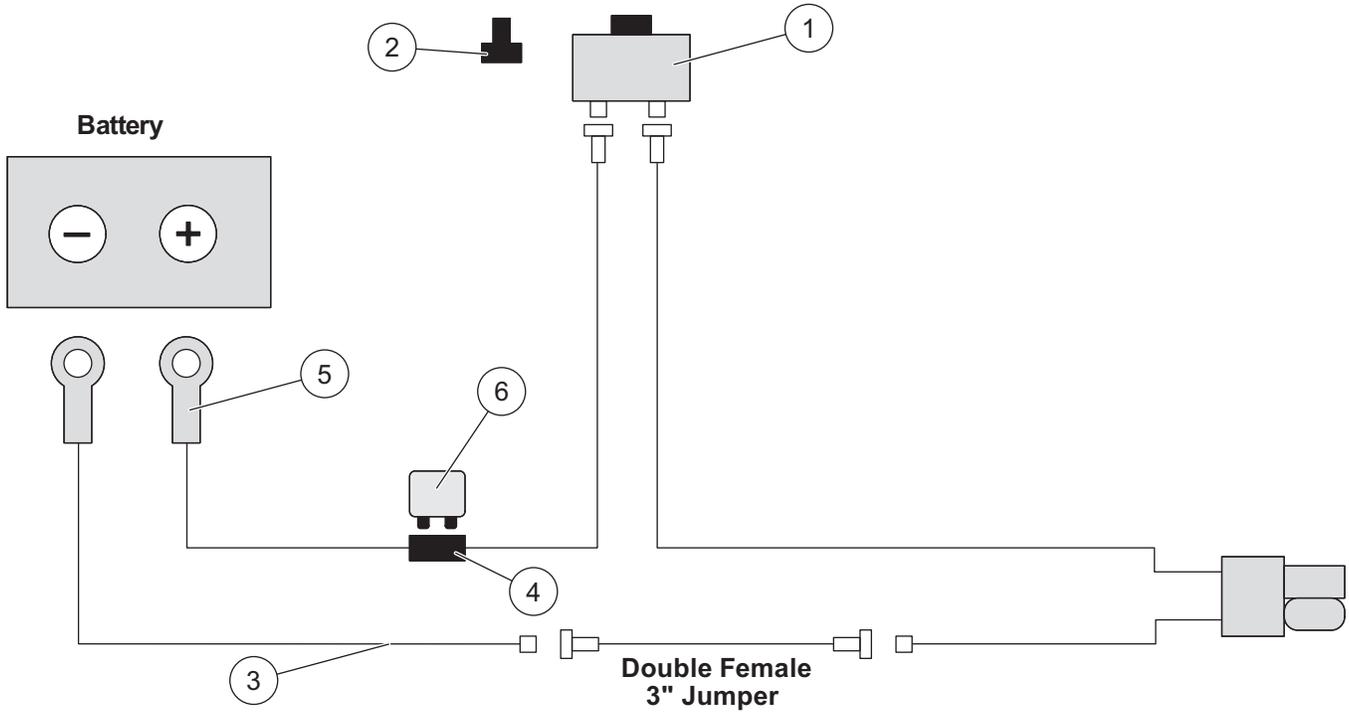
ELECTRICAL COMPONENTS – 30 GALLON VX-1500, 75 AND 225 GALLON SYSTEMS



Electrical Components							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	F50202	1	Cable Tie 6", 30 lb	3		1	15A Fuse ATC/ATO Style, Blue
2	72082	1	Relay Harness				

PARTS LIST

ELECTRICAL COMPONENTS – 30 GALLON V-PRO™ & SP-1875-1 SYSTEMS



Electrical Components							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	D6184	1	ON/OFF Switch	5	D7105	2	3/8 Ring Terminal
2	D6406	1	Rubber Switch Boot	6	57842	1	Auto Resetting Fuse Circuit Breaker, 25A
3	D6719	1	Wiring Harness				
4	D6425	1	Fuse Holder				



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