

This Manual Must Be Read Before Operating The Equipment

Owner / Operator's Manual



LEADERS IN ICE CONTROL

FOR MODELS

PWX-200

PWX-250



Madison Heights, Michigan 48071
800-725-8377
www.snowexproducts.com

Customer Copy

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Have a question or need assistance?

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General Information



CONGRATULATIONS!

The Prewet System you have purchased is an example of snow and ice control technology at its finest! Your Prewet System's self-contained design is a trademark of all SnowEx products. Here's why...

SIMPLICITY: Fewer moving parts manufactured of higher quality means minimal maintenance for your SnowEx spreading system.

RELIABILITY: High impact linear low density polyethylene tank. State-of-the-art electronic control, custom engineered powder coated frame; found only on SnowEx products.

WARRANTY: Best in the industry, hands down! 2 years standard and now 5 year extended (optional).

The benefits you are about to recognize are that of time, money and effort.
We welcome you to the world of SnowEx Performance.

Registration

Record the following information in this manual for quick reference.

Model Number _____

Serial Number _____

Date of Purchase _____

Dealer Where Purchased _____

When ordering Parts, the above information is necessary. This will help to see that you receive the correct parts.

Please register your system for warranty at your local Snowex Dealer. This will also give us a record so that any safety or service information can be communicated to you.

The Serial Number can be found on the Tank Mounting Tube.



Introduction



This manual has been designed for your help. It will assist you and instruct you on the proper set-up, installation and use of this spreader.

Refer to the table of contents for an outline of this manual.

We require that you read and understand the contents of this manual completely (especially all safety information) before attempting any procedure contained herein.



THIS SIGN SHOULD ALERT YOU:

The Society of Automotive Engineers has adopted this **SAFETY ALERT SYMBOL** to pinpoint characteristics that, if **NOT** carefully followed, can create a safety hazard. When you see this symbol in this manual or on the machine itself, **BE ALERT!** Your personal safety and the safety of others is involved.

Defined below are the **SAFETY ALERT** messages and how they will appear in this manual:



DANGER

(RED)

Information that, if not carefully followed, can cause death!



WARNING

(ORANGE)

Information that, if not carefully followed, can cause serious personal injury or death!



CAUTION

(YELLOW)

Information that, if not carefully followed, can cause minor injury or damage to equipment

Tools and Materials List:

Ratchet or Impact	5/16" Nut Runner
1/2 Socket	Long Screwdriver
Drill with Socket Adapter	1-1/4 Wrench
Dielectric Grease	Needle-Nose Pliers
1/2"-14 NPT Tap	Wire Cutters
Drill	1/2" Nutdriver
9/16" Drill Bit	7/16" Nutdriver
Permanent Marker	15/16" Wrench
Tape Measure	Adjustable Wrench
Channellocks	3/4" Wrench
Adjustable Wrench	3/4" Socket



Before attempting any procedure in this book, these safety instructions must be read and understood by all workers who have any part in the preparation or use of this equipment.

For your safety warning and information decals have been placed on this product to remind the operator of safety precautions . If anything happens to mark or destroy the decals, please request new ones from SnowEx.



Never exceed the Gross Vehicle Weight Rating of vehicle. Failure to do so may limit a vehicles handling characteristics.

Never attempt to take a unit off a truck with material in it.



Always keep hands, feet, and clothing away from power driven parts.

Unit must be pinned and locked into position before operating vehicle.

Always shut off vehicle and power source before attempting to attach or detach or service unit Be sure vehicle/power source is properly braked or chocked.

Remember, most accidents are preventable and caused by human error. Exercising of care and precautions must be observed to prevent the possibility of injury to operator or others!

Never operate equipment when under the influence of alcohol, drugs, or medications that might alter your judgment and/or reaction time.

Before working with the equipment, secure all loose fitting clothing and unrestrained hair.

Always wear safety glasses with side shields when servicing equipment. Failure to do this could result in serious injury to the eyes.

Never allow children to operate or climb on equipment.

Always check areas to be spread to be sure no hazardous conditions or substances are in the area.

Always inspect unit for defects: broken, worn or bent parts, weakened areas on spreader.

Remember it is the owner's responsibility to communicate information on safe usage and proper maintenance of all equipment.

Always make sure personnel are clear of areas of danger when using equipment.

Never weld or grind on equipment without having a fire extinguisher available.

Inspect the unit periodically for defects. Parts that are broken, missing or worn out must be replaced immediately. The unit or any part of it can not be altered without prior written permission from the manufacturer.

Always inspect pins and latches whenever attaching or detaching spreader, and before operation of spreader.

Never exceed 45 m.p.h. when loaded spreader/sprayer is attached to vehicle. Braking distances may be increased and handling characteristics may be impaired at speeds above 45 m.p.h.



Never use materials with foreign debris with any sprayer These units are designed to handle clean, free flowing material.

Never leave material in hopper for long periods of time.

Installation Instructions

Connecting to the Spreader's Control Module

This kit must be installed by your Snowex Dealer.
Set all parts aside as they are removed.

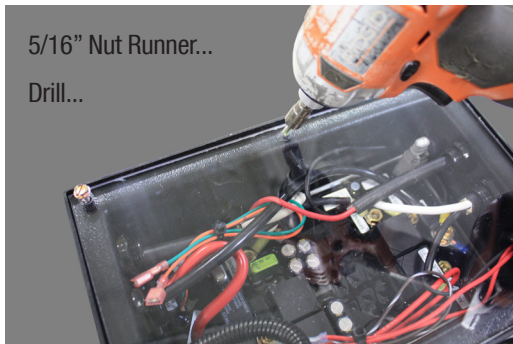
Step 1: Unplug the Spreader from all of the plugs on the Bumper.

Step 2: Put Spinner Drive into 'Down' position.

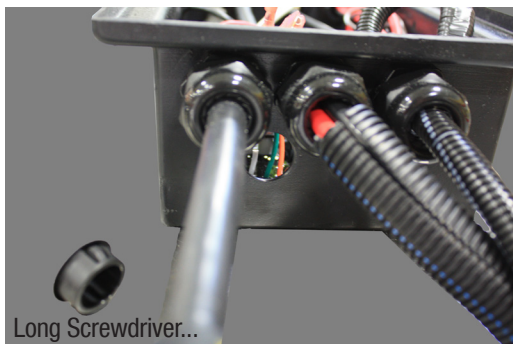
Step 3: Remove Spinner Drive Latch Pin.

Step 4: Remove the Auger Extension Cover.

Step 5: Remove the Cover of the Power Box.



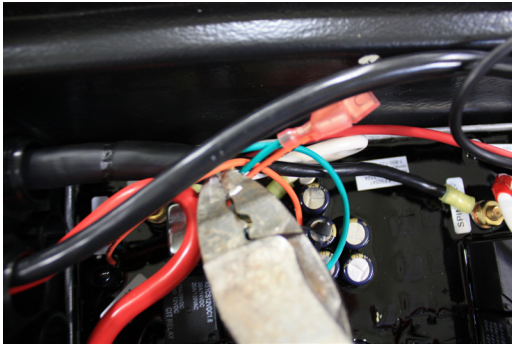
Step 6: Push out the lower Plug in the rearward-side of the Control Box.



Installation Instructions

Connecting to the Spreader's Control Module

Step 7: Cut the Zip Tie holding the Orange and Green Wires.

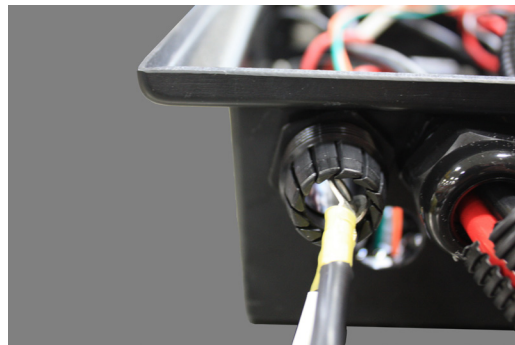


Wire Cutters...

Step 8: Remove the Cord that connects to the Spinner Drive:
Detach the wires to the Spinner Power Cord from the studs on the Control Board.
Remove the Harness.



7/16" Nut Driver...
Channellocks...
1-1/4 Wrench...



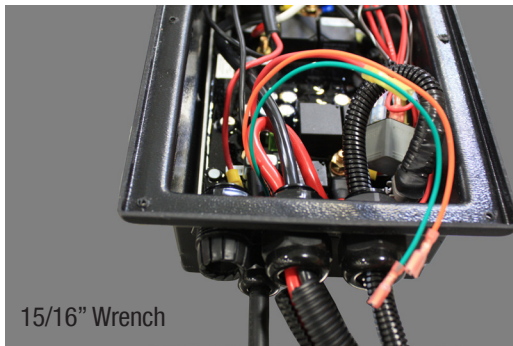
Note: it is optional to remove the Spinner Harness for the installation. It only makes it easier to tighten the PWX Harness Cord Restraint.

Installation Instructions

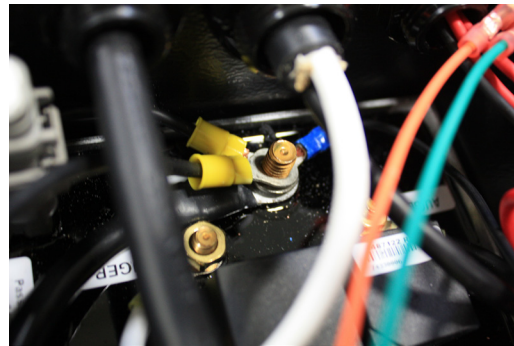
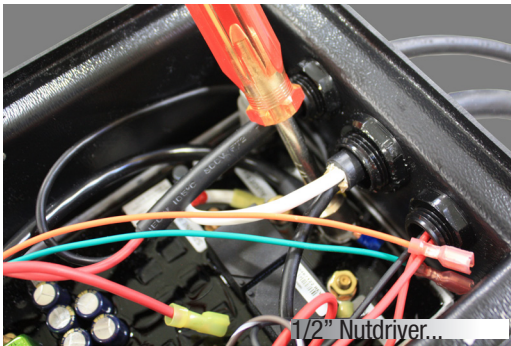


Connecting to the Spreader's Control Module

Step 9: Insert PWX Harness [F50679] through the hole from which the plug was removed. Install Restraint Nut [D6781] on inside. Tighten. Do not tighten the Cord Restraint yet.



Step 10: Remove the Nut and Serrated Washer from the "GND -" Terminal. Place the Black Wire of the PWX Harness onto the "GND -" Terminal. Reinstall the Nut and Washer. Tighten.



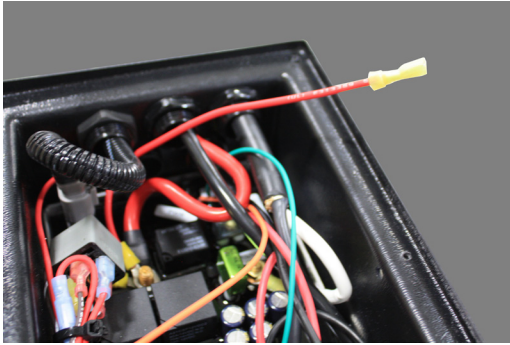
Step 11: Reinstall the Spinner Harness. The White Wire belongs on the "Spinner +" Terminal; the Black Wire belongs on the "Spinner -" Terminal. Place Nut and Washer on Stud. Tighten both nuts and the Cord Restraint.

7/16" Nutdriver... 15/16" Wrench... Adjustable Wrench...

Installation Instructions

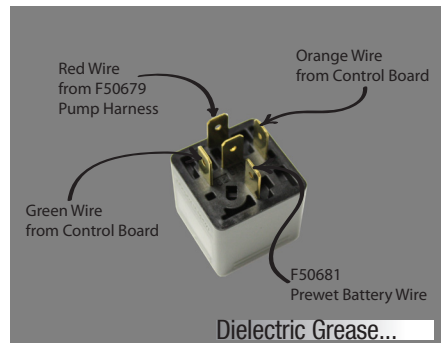
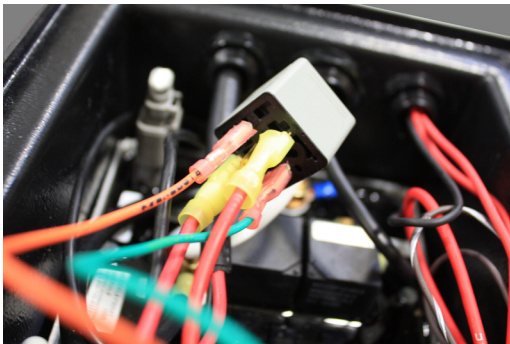
Connecting to the Spreader's Control Module

Step 12: Install the round Terminal End of the Relay Wire [F50681] onto the "BAT +" stud. Replace Nut and Washer. Tighten.

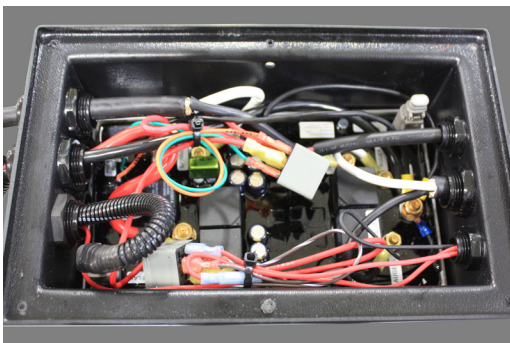


1/2" Nutdriver...

Step 13: Wire the Relay [D6083] as shown. Use Dielectric Grease.



Step 14: Coil the Wires to the Relay back around and tie to the one of the large wires with Zip Tie [F50202].



Replace Power Box Cover. Leave Auger Extension Cover off.

Installation Instructions

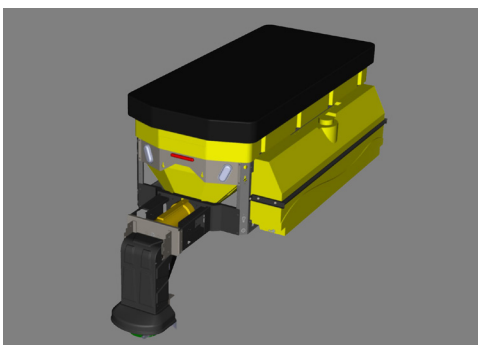


Installing on the Spreader

This kit must be installed by your Snowex Dealer.
Set all parts aside as they are removed.

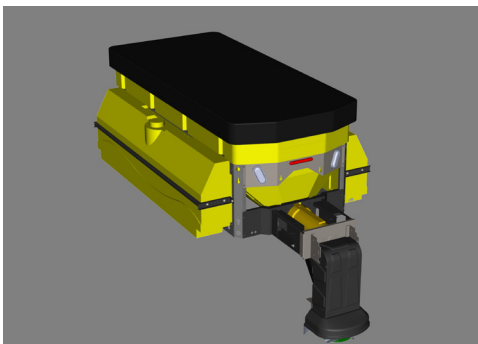
Step 1: Check that Spinner Drive is in "Down" position.

Step 2: Remove the Passenger-Side Tank [F50261 / F50251] from the pallet. The back of the Tank has two raised areas. Push these between the rails of the Sideframe. The Tank should 'click' into place. The tank is in position when centered between the Corner Posts of the Sideframe and stays 'clicked' into the Sideframe. Bolt the Mounting Rail [F50406 / F50447] to the Tank using "Tank Mounting Hardware Kit" [D6452 x8]. Bolt Mounting Rail in place using the "Tank Mounting Hardware Kit." The Nut [D5535] should be on the inside and the Bolt [D6528] should be outside.



3/4" Wrench...
3/4" Socket...
Ratchet or Impact...

Step 3: Remove the Driver-Side Tank [F50261] from the pallet. Repeat the procedure of the previous step to install this Tank.

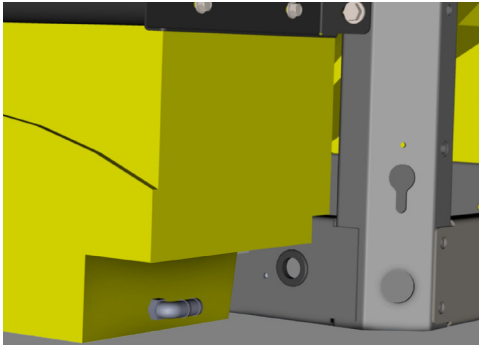


3/4" Wrench...
3/4" Socket...
Ratchet or Impact...

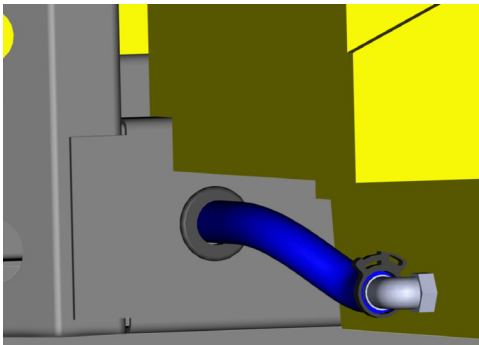
Installation Instructions

Installing on the Spreader

- Step 5: Use parts from the Tank Mounting Kit. Install a Rubber Grommet [D5602] into each of the two holes in the front of the Frame. The holes are on the side and in line with the ends of the Tanks.



- Step 6: Slide the 3/4" ID Hose [D6990] through the Grommet on the driver's side of the vehicle (use warm soapy water to make it easy). Slide onto the Hose Barb on the end of the driver's side tank (at the bottom). Put a Large Plastic Clamp [F50577] over the hose and hose barb. Tighten. Repeat for Passenger Side tank.

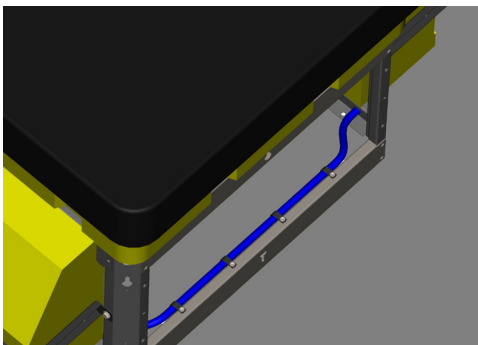


Installation Instructions



Installing on the Spreader

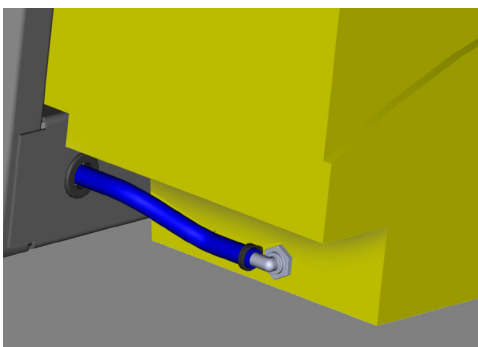
- Step 7: Secure the Hose to the Lower Frame Rail using the four metal Clamps [D7220] and the Driller Bolts [D6447]. Space the Clamps evenly.



1/2 Socket...

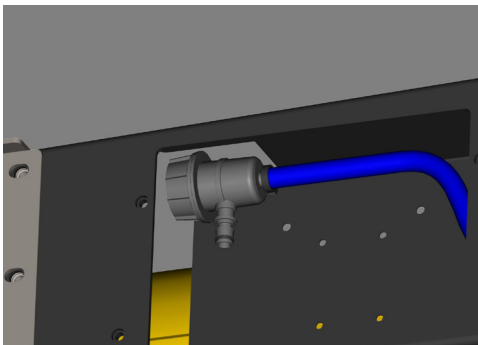
Drill with Socket Adapter...

- Step 8: Install the remaining Hose Grommet [D5602] into the hole in the frame by the Passenger-Side Tank. Slide the Hose [D6989] through the Grommet and onto the Hose Barb already installed on the Tank. Tighten with a 1/2" Plastic Hose Clamp [F50146] from the Tank Connection Hardware Kit.



Channellocks...

- Step 9: Push hose through the hole (oval-shaped) in the Rear Auger Extension [where the pump will be mounted]. Install the Filter [D5267] onto the end of this Hose. The Hose fits onto the Hose Barb coming off the end on the Filter. Clamp with the remaining 1/2" Plastic Hose Clamp [F50146].

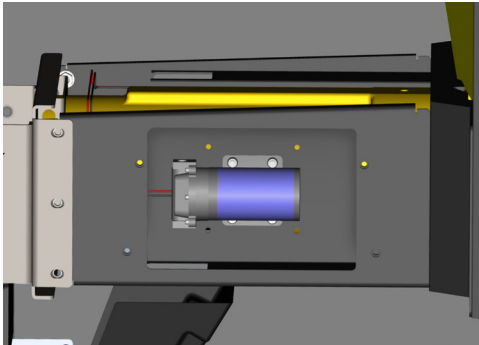


Channellocks...

Installation Instructions

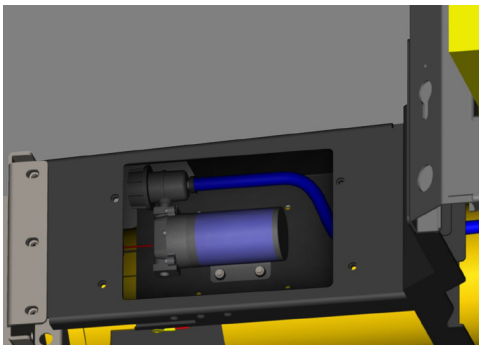
Installing on the Spreader

- Step 10: Mount Pump [D5265] to the Rear Auger Extension. Use the Pump Mounting Hardware Kit. The Pump should be mounted so the head of the Pump faces rearward. The Washers [D5292] and the Bolts [D5948] should be on the "Pump-Side" and the Nut [D5948] should be on the other side of the metal. Tighten until the Rubber Pump Feet are slightly squished.



Channellocks...

- Step 11: Connect the Filter to the Inlet of the Pump. This should be on the upward side. Secure the connection by pushing the Tab on the Pump until it clicks into position.



- Step 12: Plug the pump into the Pre-Wet Harness (installed in "Electrical Installation"). Use Dielectric Grease on the connection. Route the Harness over the Auger Tube.



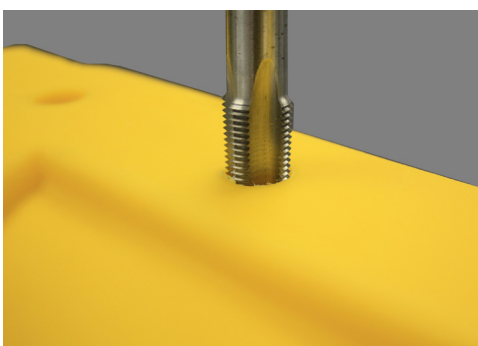
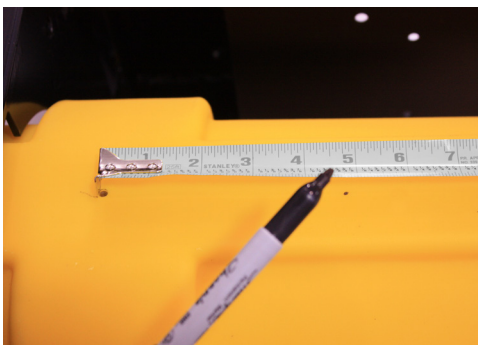
Dielectric Grease...

Installation Instructions



Installing on the Spreader

- Step 13: Make a mark at the center point of where the side and top ribs meet on the Auger Discharge Tube. Measure from this point and make another mark 4-3/4" away. Both marks should be centered on the top rib in the Auger Tube. Drill a 9/16" hole at both these marks. Make threads in these holes with a 1/2" - 14 NPT Tap.



1/2"-14 NPT Tap...

Drill...

9/16" Drill Bit...

Permanent Marker...

Tape Measure...

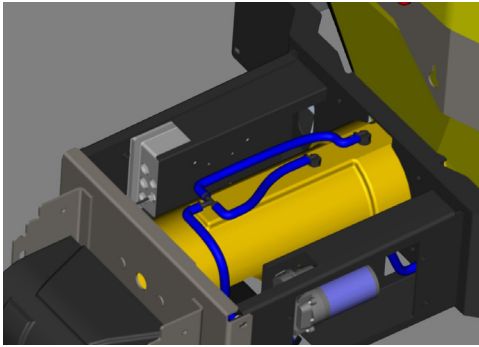
- Step 14: Thread Plastic Nut onto each Hose Barb [D5377] from the Kit. Thread into the holes just drilled and tapped. Adjust the Nut [D6781] against the plastic so both Hose Barbs face the rear of the Spreader once tightened.



Installation Instructions

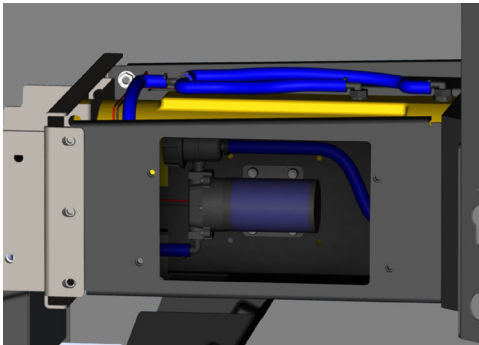
Installing on the Spreader

- Step 15: Slide the Hose Assembly onto the Barbs just installed. The 9" Hose should go to the Barb closer to the Hopper. Use the Small Plastic Hose Clamps [F50145] to tighten.

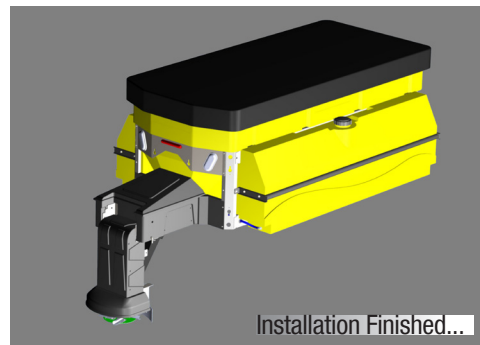
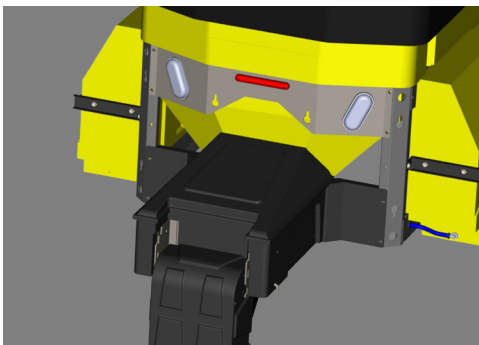


Channellocks...

- Step 16: Connect the Hose Assembly to the Pump on the outlet side. Clamp with clip on the pump.



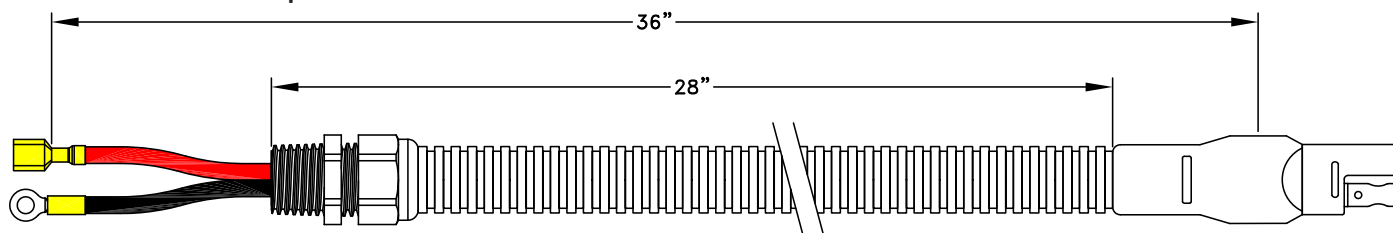
- Step 17: Re-Install the Auger Extension Cover and the Spinner Drive Latch Pin.



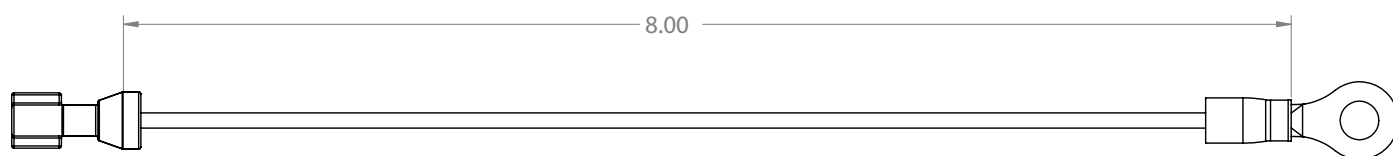
Harness Diagram



F50679 PWX Pump Harness



F50681 PWX Relay Wire



Operating the PWX

Model # PWX-200 / PWX-250

Enabling the Pre-Wet Function:

Fill the Tanks with the pre-wet solution of your preference.

Turn Control Pendant on.

Push the “Pre-Wet Enable” button; a light will turn on.

Begin spreading by pushing the “Start” button. The Pump will turn on with the with the Auger and Spinner. The flow rate will adjust automatically. The pre-wet solution and the spreading material will mix in the Auger Discharge Tube.

To stop Pre-Wetting the spreading material push the “Pre-Wet Enable” button; the light will turn off. Otherwise the PWX is integrated with the spreader controls and the pump will stop operating when you push “Start-Stop.”

To adjust the flow rate of the PWX system, adjust the valve in the hose.

Maintenance

Paint or Oil scratches in the paint/metal.

Do not clean tanks with petroleum products. This will damage the tanks.

Periodically apply Dielectric Grease to electrical connections to prevent corrosion.

Empty Tanks and Spreader's Hopper after each use to prevent freezing.

To drain tanks; remove the cap from the driver's side tank.

Store system indoors or use run RV Antifreeze through pump and store with RV Antifreeze in Pump.

Troubleshooting



Model # PWX-200 / PWX-250

Warning: First read all warning instructions and safety messages before servicing the Sprayer.

Preliminary checks

- Be sure all electrical connections are tight and clean.
- Be sure nothing is obstructing the nozzles.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Pump doesn't run.	Loose electrical connections.	Check all connections.
	Blown fuse.	Replace fuse.
	Pump seized.	Replace pump.
Controller shut down.	Poor electrical connections.	Clean or replace connectors. Use dielectric grease.
	Electrical short.	Check electrical connections. Check for bare wires.
	Controller failure.	Replace controller.
Liquid not spraying.	Empty tank.	Fill tank.
	Full Strainer.	Clean or replace filter element.
	Pump not running.	Refer to Problem 1.
	Obstructed nozzle.	Remove and clean.

Limited Warranty

Snowex products are warranted for a period of two years from the date of purchase against defects in material or workmanship under normal use and service, subject to limitations detailed below. Warranty period of two years begins on the date of purchase by the original retail user.

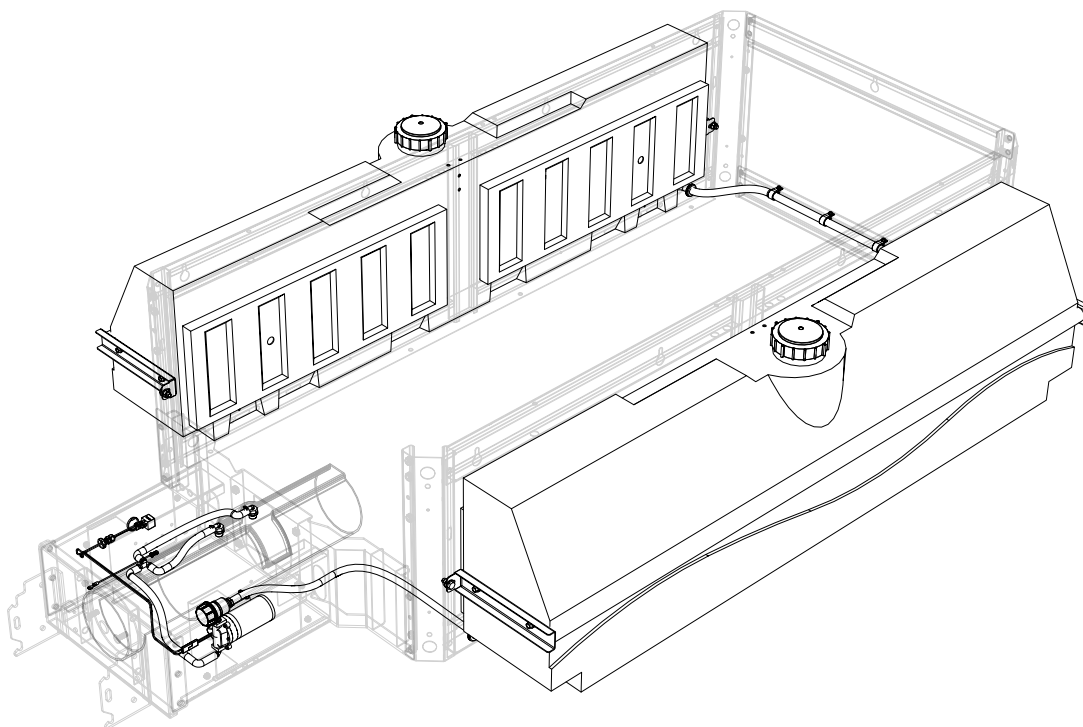
The WARRANTY REGISTRATION CARD must be returned to the manufacturer for this warranty to become effective. This warranty applies to the original retail purchaser only. This warranty does not cover damages caused by improper installation, misuse, lack of proper maintenance, alterations or repairs made by anyone other than authorized Snowex dealers or Snowex personnel. Due to the corrosive properties of the materials dispensed by spreaders, Trynex does not warrant against damage caused by corrosion. Warranty claims by the user must be made to the dealer from where the product was purchased, unless otherwise authorized by Snowex. Snowex reserves the right to determine if any part is defective and to repair or replace such parts as it elects. This warranty does not cover shipping costs of defective parts to or from the dealer.

LIMITATION OF LIABILITY

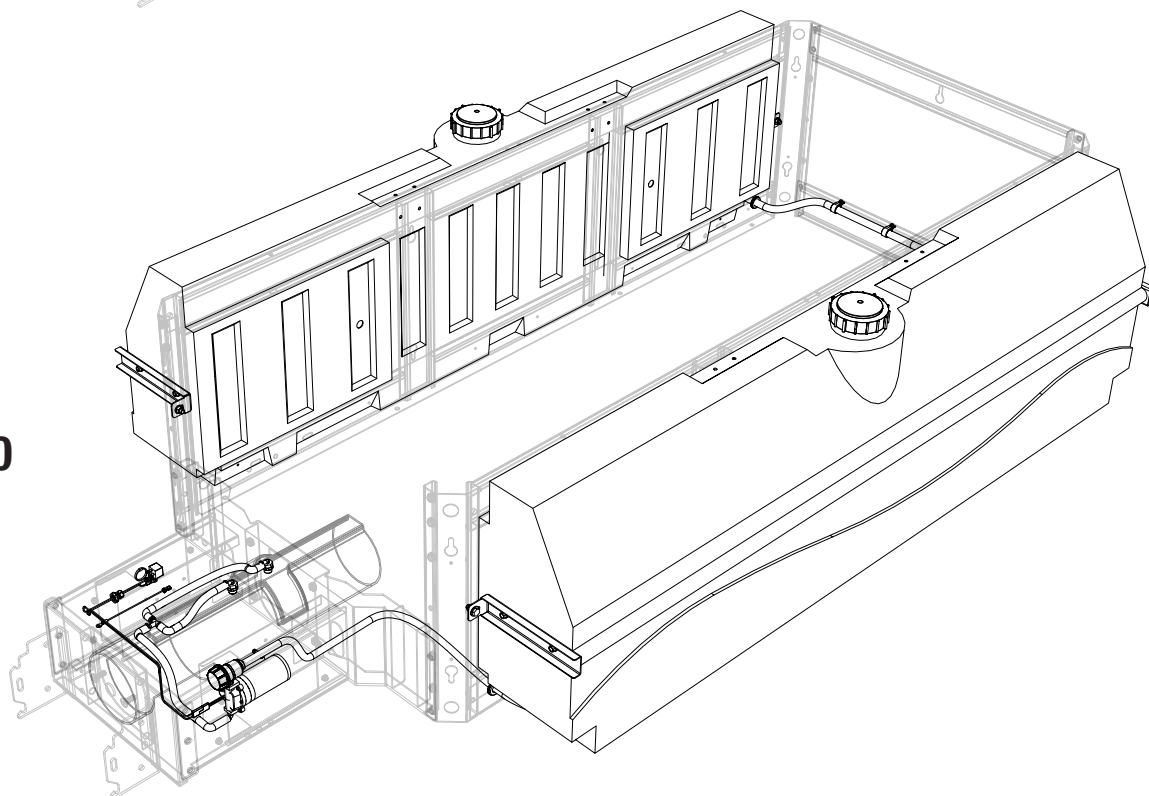
Neither Snowex, nor any company affiliated with it, makes any warranties, representations for promise as to the performance or quality other than what is herein contained. The liability of Snowex to the purchaser for damages arising out of the manufacture, sale, delivery, use or resale of this spreader shall be limited to and shall not exceed the costs of repair or replacement of defective parts. Snowex shall not be liable for loss of use, inconvenience or any other incidental, indirect or consequential damages, so the above limitations on incidental or consequential damages may not apply to you.

NO DEALER HAS AUTHORITY TO MAKE ANY REPRESENTATION OR PROMISE ON BEHALF OF SNOWEX, OR TO ALTER OR MODIFY THE TERMS OR LIMITATIONS OF THIS WARRANTY IN ANY WAY.

PWX-200



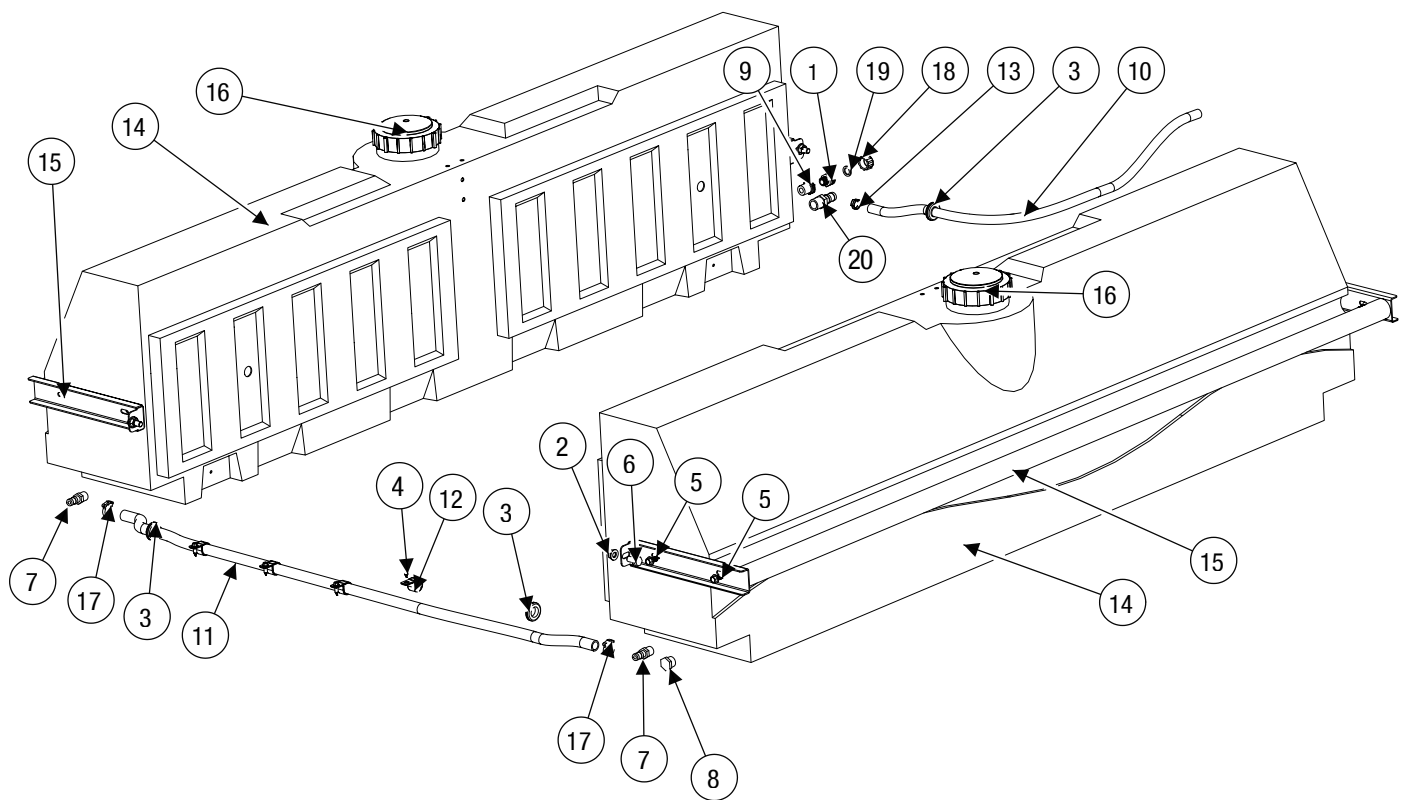
PWX-250



Tank Assemblies Breakdown

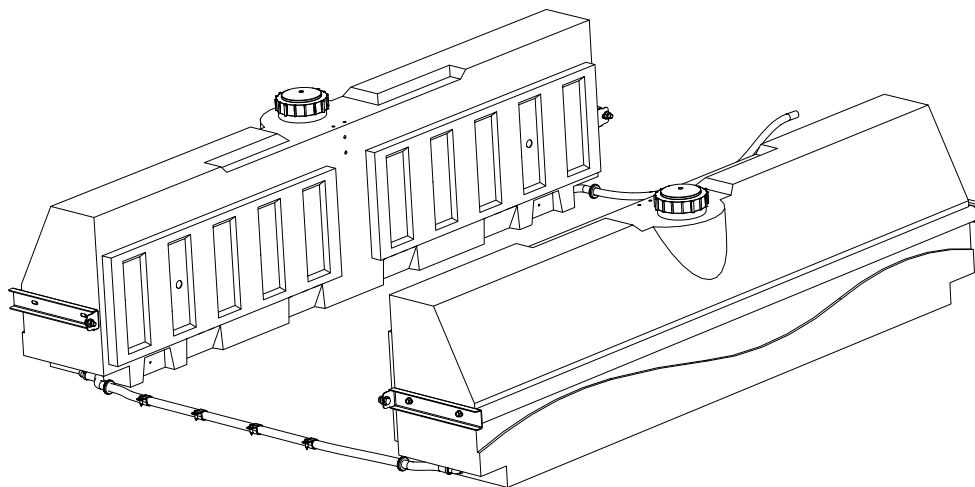


Model # PWX-200



Tank Assemblies Breakdown

Model # PWX-200

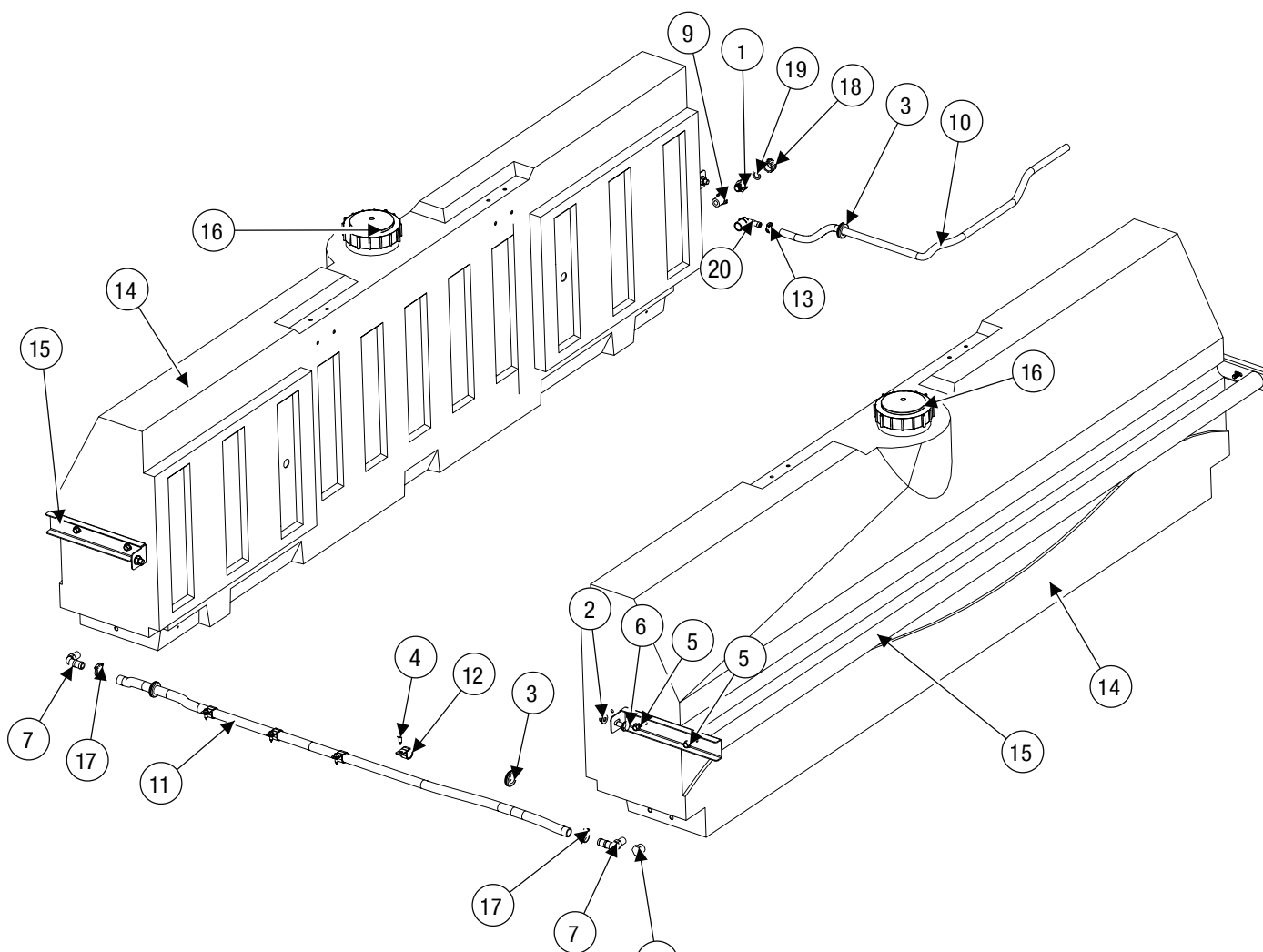


BOM ID	Description	Description	Qty
1	D5357	Garden Hose - 1/2 NPT Adapter	1
2	D5535	Nut 1/2"-13 Serrated Flange Zinc	4
3	D5602	Hose Grommet	3
4	D6447	5/16" X 1" Driller Zinc	4
5	D6452	Bolt 3/8"-16 X 1" Serrated Flange Type F Zinc	8
6	D6528	Bolt 1/2"-13 X 1" Serrated Hex Zinc	4
7	D6928	Hose Barb 3/4" Male Thread X 3/4" Straight	2
8	D6908	Pipe Plug 3/4" NPT	2
9	D6925	3/4 NPT x 1/2 NPT Reducer	1
10	D6989-42	Hose 1" X 42" PVC Clear	1
11	D6990-60	Hose 3/4" X 1" X 60" PVC Clear	1
12	D7220	Clamp 1" Rubber Coated	4
13	F50146	Hose Clamp Double Tooth Poly 3/8"	1
14	F50251	Tank 100 Gallon Yellow	2
15	F50447	Tank Mounting Tube PWX-200	2
16	F50487	6 Inch Lid With Vent Gasket	2
17	F50577	Hose Clamp 3/4" Double Tooth Poly	2
18	T20131	Garden Hose Cap 3/4" Plastic	1
19	T20136	Washer Garden Hose	1
20	D5255	Hose Barb 3/4" Male Thread X 1/2" Straight	1

Tank Assemblies Breakdown



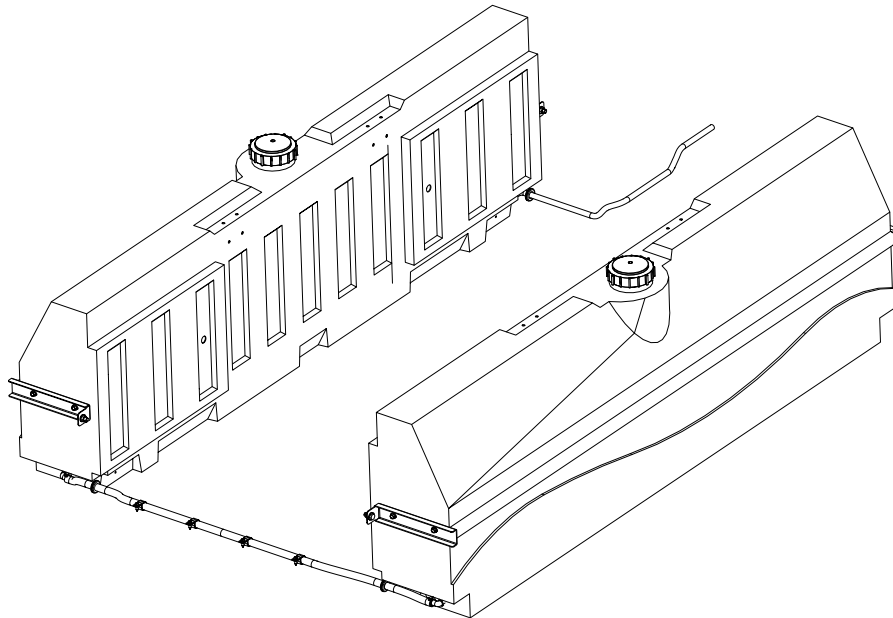
Model # PWX-250



Tank Assemblies Breakdown



Model # PWX-250

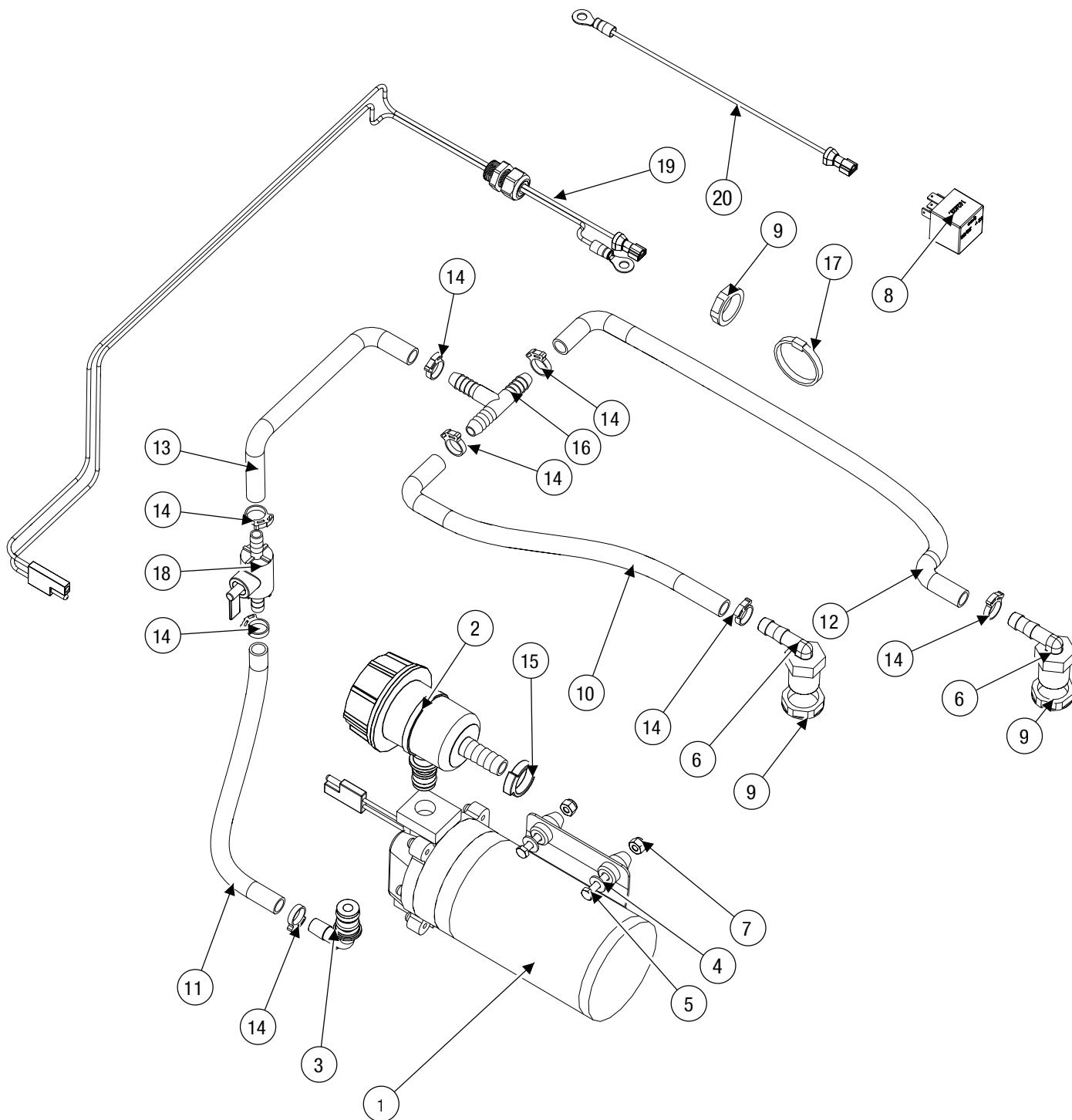


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3	D5602	Hose Grommet	3
4	D6447	5/16" X 1" Driller Zinc	4
5	D6452	Bolt 3/8"-16 X 1" Serrated Flange Type F Zinc	8
6	D6528	Bolt 1/2"-13 X 1" Serrated Hex Zinc	4
7	D6905	Hose Barb 3/4" Male Thread X 3/4" 90°	2
8	D6908	Pipe Plug 3/4" NPT	2
9	D6925	3/4 NPT x 1/2 NPT Reducer	1
10	D6989-45	Hose 1" X 45" PVC Clear	1
11	D6990-80	Hose 3/4" X 1" X 80 PVC Clear	1
12	D7220	Clamp 1" Rubber Coated	4
13	F50146	Hose Clamp Double Tooth Poly 3/8"	1
14	F50261	Tank Saddle 125 Gallon Yellow	2
15	F50406	Tank Mounting Tube PWX-250	2
16	F50487	6 Inch Lid With Vent Gasket	2
17	F50577	Hose Clamp 3/4" Double Tooth Poly	2
18	T20131	Garden Hose Cap 3/4" Plastic	1
19	T20136	Washer Garden Hose	1
20	T20313	Hose Barb 3/4" Male Thread X 1/2" 90°	1

Pump Assembly Parts Breakdown



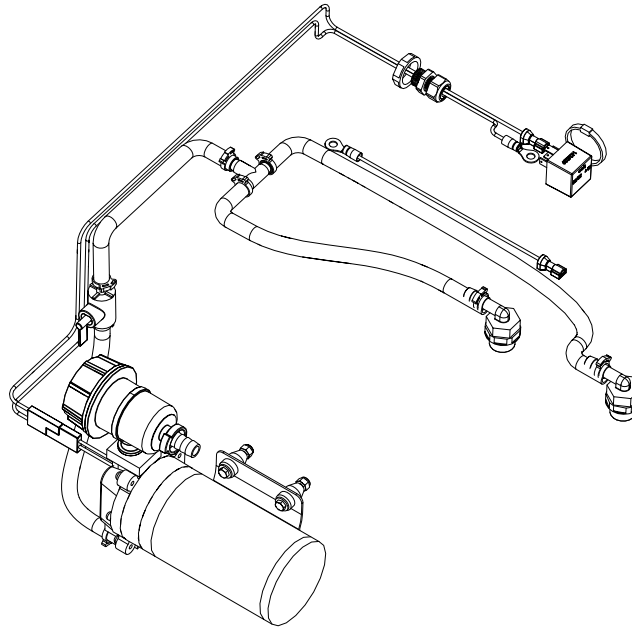
Model # PWX-200 / PWX-250



Pump Assembly Parts Breakdown



Model # PWX-200 / PWX-250



BOM ID	Description	Description	Qty
1	D5265	Pump 2.0 GPM Diaphragm	1
2	D5267	Line Strainer Quick Attach Black Bowl	1
3	D5269	Hose Barb 5/8" Quick Attach X 3/8" 90°	1
4	D5292	Washer #10 Flat Stainless	4
5	D5294	Bolt #10-32 X 1-1/4" Hex Head MS Stainless	4
6	D5377	Hose Barb 1/2" Male Thread X 3/8" 90°	2
7	D5948	Nut #10-32 Nylox Waxed Stainless	4
8	D6083	Relay 30 Amp	1
9	D6781	Nut 1/2" NPT Black Nylon	3
10	D6988-8	Hose 3/8" X 1" X 8" PVC Clear	1
11	D6988-8.25	Hose 3/8" X 1" x 8.25" PVC Clear	1
12	D6988-9	Hose 3/8" X 1" X 9" PVC Clear	1
13	D6988-9.25	Hose 3/8" X 1" x 9.25" PVC Clear	1
14	F50145	Hose Clamp 3/8" Double Tooth Poly	8
15	F50146	Hose Clamp Double Tooth Poly 3/8"	1
16	F50148	Hose Barb Tee 3/8"	1
17	F50202	Cable Tie 6" 30lb	1
18	F50672	Valve 3/8" Hose Barb X 3/8" Hose Barb	1
19	F50679	Prewet Supermaxx Pump Whip	1
20	F50681	Relay Jumper Supermaxx	1

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