Operator's Manual & Parts Drawings

Brine Spray System

Model NB200

Serial # AA01001 - AA01040

by Venture Products Inc.

Original Operator's Manual

Revised 08/15/23
09.10150 Rev. 03

500 Venture Drive
Orrville, OH 44667
www.ventrac.com

To the Owner
Contact Information and Product Identification

If you need to contact an authorized Ventrac dealer for information on servicing your product, always provide the product model and serial numbers.

Please fill in the following information for future reference. See the picture(s) below to find the location of the identification numbers. Record them in the spaces provided.

Date of Purchase: _____

Dealer: _____

Dealer Address: _____

_____

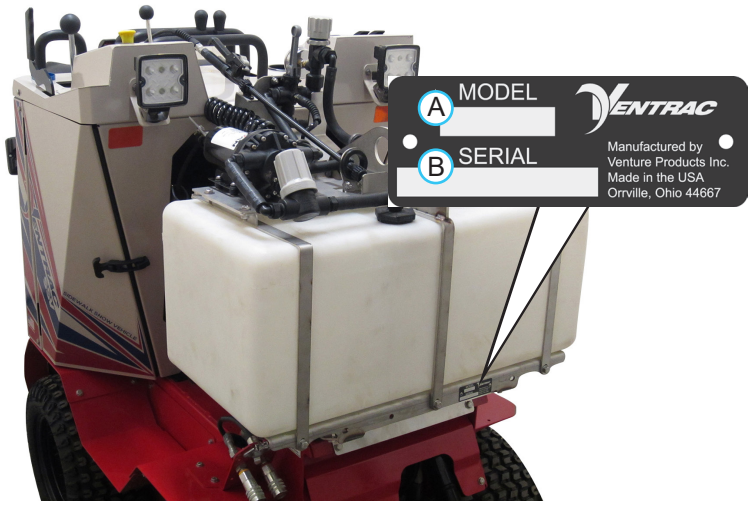
Dealer Phone Number: _____

Dealer Fax Number: _____

Model # (A): _____

Serial # (B): _____

Affix Part/Serial Number label here.



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INTRODUCTION

Venture Products Inc. is pleased to provide you with your new Ventrac brine system! We hope that Ventrac equipment will provide you with a ONE Tractor Solution.

Product Description

The NB200 Brine system features a 20 gallon (75.7 liter) tank, rear mounted nozzles, and a hand held spray gun. The nozzles distribute brine in a 36 - 48 inch (91.4 - 122 cm) wide spray pattern. The spray gun is useful for accessing hard to reach areas and features a coiled hose for easy storage and operation.

Why Do I Need an Operator's Manual?

This manual has been created to help you gain the important knowledge of what is needed to safely operate, maintain, and service your machine. It is divided into sections for convenient reference of the appropriate section.

You must read and understand the operator's manual for each piece of Ventrac equipment you own. Reading the operator's manual will help you become familiar with each specific piece of equipment. Understanding the operator's manual will help you, as well as others, avoid personal injury and/or damage to the equipment. Keep this manual with the machine at all times. The manual should remain with the machine even if it is sold. If this manual becomes damaged or unreadable, it should be replaced immediately. Contact your local Ventrac dealer for a replacement.

When using a Ventrac attachment, be sure to read and follow the safety and operating instructions of both the power unit and the attachment being used to ensure the safest operation possible.

The information in this manual provides the operator with the safest procedures to operate the machine while getting the maximum use out of the unit. Failure to follow the safety precautions listed in this manual may result in personal injury and/or damage to the equipment.

Using Your Manual

Throughout this manual, you will encounter special messages and symbols that identify potential safety concerns to help you as well as others avoid personal injury or damage to the equipment.

SYMBOL DEFINITIONS

ATTENTION

This symbol identifies potential health and safety hazards. It marks safety precautions. Your safety and the safety of others is involved.

There are three signal words that describe the level of safety concern: Danger, Warning, and Caution. Safety should always be the #1 priority when working on or operating equipment. Accidents are more likely to occur when proper operating procedures are not followed or inexperienced operators are involved.

Note: Right-Hand and Left-Hand orientations may be referred to at different places throughout this manual. Right-Hand and Left-Hand is determined as if sitting on the power unit seat facing forward.

SIGNAL WORD DEFINITIONS

⚠ DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme cases.

⚠ WARNING

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

⚠ CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury and/or property damage. It may also be used to alert against unsafe practices.

Manual Glossary

Power Unit A Ventrac tractor or other Ventrac engine powered device that may be operated by itself or with an attachment or accessory.

Attachment A piece of Ventrac equipment that requires a Power Unit for operation.

Accessory A device that attaches to a Power Unit or Attachment to extend its capabilities.

Machine Describes any “Attachment” or “Accessory” that is used in conjunction with a power unit.

General Safety Procedures for Ventrac SSV Power Units, Attachments, & Accessories

Training Required

- The owner of this machine is solely responsible for properly training the operators.
- The owner/operator is solely responsible for the operation of this machine and for the prevention of accidents or injuries occurring to him/herself, other people, or property.
- Do not allow operation or service by children or untrained personnel. Local regulations may restrict the age of the operator.
- Before operating this machine, read the operator's manual and understand its contents.
- If the operator of the machine cannot understand this manual, then it is the responsibility of this machine's owner to fully explain the material within this manual to the operator.
- Learn and understand the use of all the controls.
- Know how to stop the power unit and the attachments quickly in the event of an emergency.

Requirements for Personal Protective Equipment (PPE)

- The owner is responsible for ensuring that all the operators use the proper PPE while operating the machine. Whenever you use the machine, use the following PPE:
- Certified eye protection and hearing protection.
- Closed toe, slip resistant footwear.
- Long pants or trousers.
- A dust mask for dusty conditions.
- Appropriate cold weather clothing.
- Additional PPE may be required. Refer to the product safety procedures for any additional requirements.

Operation Safety

- Secure long hair and loose clothing. Do not wear jewelry.
- Inspect the machine before operation. Repair or replace any damaged, worn, or missing parts. Be sure the guards and shields are in proper working condition and are secured in place. Make any necessary adjustments before operating the machine.
- Some pictures in this manual may show shields or covers opened or removed in order to clearly illustrate the instructions. Under no circumstance should the machine be operated without these devices in place.
- Alterations or modifications to this machine can reduce safety and could cause damage to the machine. Do not alter the safety devices or operate with the shields or covers removed.
- Before each use, verify that all the controls function properly and inspect all the safety devices. Do not operate if the controls or safety devices are not in proper working condition.
- Check the parking brake function before operating. Repair or adjust the parking brake if necessary.
- Observe and follow all of the safety decals.
- All the controls are to be operated from the operator's station only.
- Ensure the attachment or accessory is locked or fastened securely to the power unit before operating.
- Ensure that all bystanders are clear of the power unit and the attachment before operating. Stop the machine if someone enters your work area.
- Always be alert to what is happening around you, but do not lose focus on the task you are performing. Always look in the direction the machine is moving.
- Look behind and down before backing up to be sure of a clear path.

General Safety Procedures for Ventrac Power Units, Attachments, & Accessories

- If you hit an object, stop and inspect the machine. Make any necessary repairs before operating the machine again.
- Stop operation immediately at any sign of equipment failure. An unusual noise can be a warning of equipment failure or a sign that maintenance is required. Make any necessary repairs before operating the machine again.
- Do not leave the machine unattended while it is running.
- Always park the machine on level ground.
- Always shut off the engine when connecting the attachment drive belt to the power unit.
- Never leave the operator's station without lowering the attachment to the ground, engaging the parking brake, shutting off the engine, and removing the ignition key. Make sure all moving parts have come to a complete stop before dismounting.
- Never leave the machine unattended without lowering the attachment to the ground, engaging the parking brake, shutting off the engine, and removing the ignition key.
- Only operate in well-lit conditions.
- Do not operate when there is a risk of lightning.
- Never direct the discharge of any attachment in the direction of people, buildings, animals, vehicles, or other objects of value.
- Never discharge material against a wall or obstruction. The material may ricochet back toward the operator.
- Use extra caution when approaching blind corners, shrubs, trees, or other objects that may obscure your vision.
- Do not run the engine in a building without adequate ventilation.
- Do not touch the engine or the muffler while the engine is running or immediately after stopping the engine. These areas may be hot enough to cause a burn.
- Do not change the engine governor settings or over-speed the engine. Operating the engine at excessive speeds may increase the hazard of personal injury.
- To reduce the hazard of fire, keep the battery compartment, engine, and muffler areas free of grass, leaves, excessive grease, and other flammable materials.
- Clear the working area of objects that might be hit or thrown from the machine.
- Keep people and pets out of the working area.
- Know the work area well before operation. Do not operate where traction or stability is questionable.
- Reduce speed when you are operating over rough ground.
- Equipment can cause serious injury and/or death when improperly used. Before operating, know and understand the operation and safety of the power unit and the attachment being used.
- Do not operate the machine if you are not in good physical and mental health, if you will be distracted by personal devices, or if you are under the influence of any substance which might impair your decisions, dexterity, or judgment.
- Children are attracted to machine activity. Be aware of children and do not allow them in the work area. Turn off the machine if a child enters the work area.

Keep Riders Off

- Only allow the operator on the power unit. Keep riders off.
- Never allow riders on any attachment or accessory.

General Safety Procedures for Ventrac Power Units, Attachments, & Accessories

Operating On Slopes

- Slopes can cause loss-of-control and tip-over accidents, which can result in severe injury or death. Be familiar with the emergency parking brake, along with the power unit controls and their functions.
- Do not operate on slopes greater than 10 degrees.
- Do not stop or start suddenly when operating on slopes.
- Variables such as wet surfaces and loose ground will reduce the degree of safety. Do not drive where the machine could lose traction or tip over.
- Keep alert for hidden hazards in the terrain.
- Stay away from drop-offs, ditches, and embankments.
- Sharp turns should be avoided when operating on slopes.
- Transport the machine with the attachment lowered or close to the ground to improve stability.
- While operating on slopes, drive in an up and down direction whenever possible. If turning is necessary while driving across slopes, reduce your speed and turn slowly in the downhill direction.

Roadway Safety

- Operate with safety lights when operating on or near roadways.
- Obey all state and local laws concerning operation on roadways.
- Slow down and be careful of traffic when operating near or crossing roadways. Stop before crossing roads or sidewalks. Use care when approaching areas or objects that may obscure vision.
- If there is any doubt of safety conditions, discontinue the machine operation until a time when the operation can be performed safely.

Truck Or Trailer Transport

- Use care when loading or unloading the machine into a truck or trailer.
- Use full width ramps for loading the machine into a truck or trailer.
- The parking brake is not sufficient to lock the machine during transport. Always secure the power unit and/or attachment to the transporting vehicle securely using straps, chains, cables, or ropes. Both the front and rear straps should be directed down and outward from the machine.
- Shut off the fuel supply to the power unit during transport on a truck or trailer.
- Turn the battery disconnect switch to the Off position to shut off electrical power.

Maintenance

- Keep the safety decals legible. Remove all grease, dirt, and debris from the safety decals and instructional labels.
- If any decals are faded, illegible, or missing, contact your dealer promptly for replacements.
- When new components are installed, be sure that the current safety decals are affixed to the replacement components.
- If any component requires replacement, use only original Ventrac replacement parts.
- Always turn the battery disconnect to the Off position or disconnect the battery before performing any repairs. Disconnect the negative terminal first and the positive terminal last. Reconnect the positive terminal first and the negative terminal last.
- Keep all bolts, nuts, screws, and other fasteners properly tightened.
- Always lower the attachment to the ground, engage the parking brake, shut off the engine, and remove the ignition key. Make sure all moving parts have come to a complete stop before cleaning, inspecting, adjust-

General Safety Procedures for Ventrac Power Units, Attachments, & Accessories

ing, or repairing.

- If the power unit, attachment, or accessory requires repairs or adjustments not instructed in the operator's manual, the power unit, attachment, or accessory must be taken to an authorized Ventrac dealer for service.
- Never perform maintenance on the power unit and/or attachment if someone is in the operator's station.
- Always use protective glasses when handling the battery.
- Check the fuel lines for tightness and wear on a regular basis. Tighten or repair them as needed.
- To reduce the hazard of fire, keep the battery compartment, engine, and muffler areas free of grass, leaves, and excess grease.
- Do not touch the engine, the muffler, or other exhaust components while the engine is running or immediately after stopping the engine. These areas may be hot enough to cause a burn.
- Allow the engine to cool before storing and do not store near an open flame.
- Do not change the engine governor settings or over-speed the engine. Operating engine at excessive speeds may increase the hazard of personal injury.
- Springs may contain stored energy. Use caution when disengaging or removing springs and/or spring loaded components.
- An obstruction or blockage in a drive system or moving/rotating parts may cause a buildup of stored energy. When the obstruction or blockage is removed, the drive system or moving/rotating parts may move suddenly. Do not attempt to remove an obstruction or blockage with your hands. Keep your hands, feet, and clothing away from all power-driven parts.

Fuel Safety

- To avoid personal injury or property damage, use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive.
- Do not refuel the machine while smoking or at a location near flames or sparks.
- Always refuel the machine outdoors.
- Do not store the machine or fuel container indoors where the fumes or fuel can reach an open flame, spark, or pilot light.
- Only store fuel in an approved container. Keep out of the reach of children.
- Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place the containers on the ground away from your vehicle before filling.
- Remove the machine from the truck or trailer and refuel it on the ground. If this is not possible, refuel the machine using a portable container, rather than from a fuel dispenser nozzle.
- Never remove the fuel cap or add fuel with the engine running. Allow the engine to cool before refueling.
- Never remove the fuel cap while on a slope. Only remove the fuel cap when parked on a level surface.
- Replace the fuel tank cap and the container cap securely.
- Do not overfill the fuel tank. Only fill to the bottom of the fuel neck, do not fill the fuel neck full. Overfilling of the fuel tank could result in engine flooding, fuel leakage from the tank, and/or damage to the emissions control system.
- If fuel is spilled, do not attempt to start the engine. Move the power unit away from the fuel spill and avoid creating any source of ignition until the fuel vapors have dissipated.
- If the fuel tank must be drained, it should be drained outdoors into an approved container.
- Check the fuel lines for tightness and wear on a regular basis. Tighten or repair them as needed.
- The fuel system is equipped with a shut-off valve. Shut off the fuel when transporting the machine to and from the job, when parking the machine indoors, or when servicing the fuel system.

General Safety Procedures for Ventrac Power Units, Attachments, & Accessories

Hydraulic Safety

- Make sure the hydraulic connections are tight and all hydraulic hoses and tubes are in good condition. Repair any leaks and replace any damaged or deteriorated hoses or tubes before starting the machine.
- Hydraulic leaks can occur under high pressure. Hydraulic leaks require special care and attention.
- Use a piece of cardboard and a magnifying glass to locate suspected hydraulic leaks.
- Keep your body and hands away from pinhole leaks or nozzles that eject high pressure hydraulic fluid. Hydraulic fluid escaping under high pressure can penetrate the skin causing serious injury, leading to severe complications and/or secondary infections if left untreated. If hydraulic fluid is injected into the skin, seek immediate medical attention no matter how minor the injury appears.
- The hydraulic system may contain stored energy. Before performing maintenance or repairs on the hydraulic system, remove any attachments, engage the parking brake, disengage the weight transfer system (if equipped), shut off the engine, and remove the ignition key. To relieve pressure on the auxiliary hydraulic system, shut off the power unit engine and move the hydraulic control lever left and right before disconnecting the auxiliary hydraulic quick couplers.

NB200 Safety Procedures

- Brine tank frame must be properly secured to the power unit before operating.
- Do not point the spray gun at people or animals.
- Do not use any products containing petroleum or petroleum by-products, as they can cause damage to system components.
- Always turn off electrical power to the pump and shut off the power unit before performing maintenance or repairs on the brine system.
- Wear safety goggles or a face shield when servicing brine system hoses, nozzles, or spray wand.
- When using a commercial deicing solution, follow the manufacturer's recommendations for personal protective equipment and first aid procedures.
- If you are making your own salt brine solution, wear eye goggles or a full face shield and gloves when mixing the brine solution and when filling the brine tank. Avoid contact with eyes, skin, and clothing.
- Salt brine can cause irritation to the eyes and the skin. In case of eye contact, immediately flush eyes with plenty of water for 10 minutes. Seek medical attention if irritation persists. In case of skin contact, wash with mild soap and water.
- Ingestion of salt brine may cause nausea, vomiting, diarrhea, tissue irritation, fever, etc. If a large amount of salt brine is ingested, drink large amounts of water or milk. If any symptoms develop, seek immediate medical attention.
- In case of accidental release, follow the manufacturer's recommendations for containment and cleanup when using a commercial deicing solution. If using your own salt brine solution, rinse away small spills with water. For larger spills, contain the liquid and vacuum up or absorb the liquid for proper disposal. Rinse the spill area with water.

Setup Instructions for Brine System

Installation Time (estimated) *2 hours*

Attention

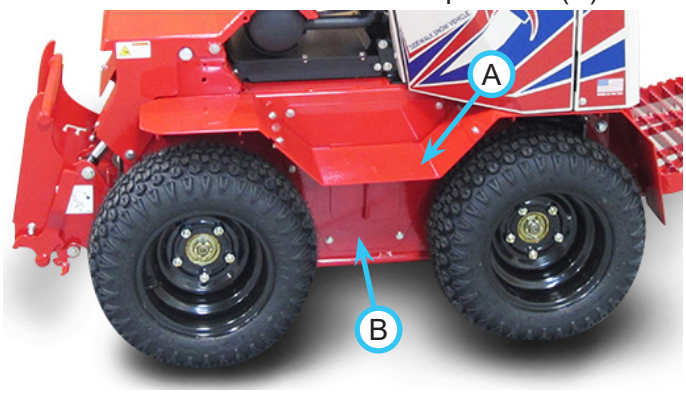
To prevent thread galling of stainless steel hardware, lubricate the bolt threads with a lithium complex NLGI #2 grease and use hand tools to tighten. Do not use air or electric power tools as this increases the potential of thread galling.

1. Park the power unit on a level surface.
2. Shut off the power unit's engine, engage the parking brake, and remove the key from the ignition.
3. Press the button on the battery disconnect switch.

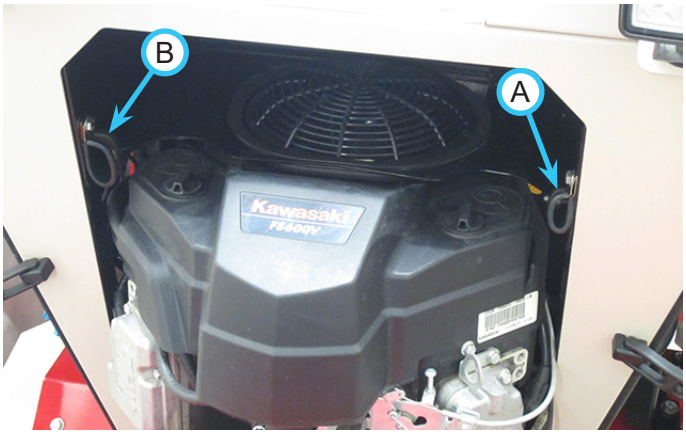
WARNING

Failure to allow the engine and muffler to cool down sufficiently could result in severe burns from contact with hot engine components.

4. Allow the engine and muffler to cool completely before proceeding.
5. If the power unit is equipped with a storage basket kit, the storage basket must be removed.
6. Remove the operator cushion from the power unit.
7. Remove the pump belt drive cover from the engine frame on the power unit.
8. Remove the left center fender platform (A).



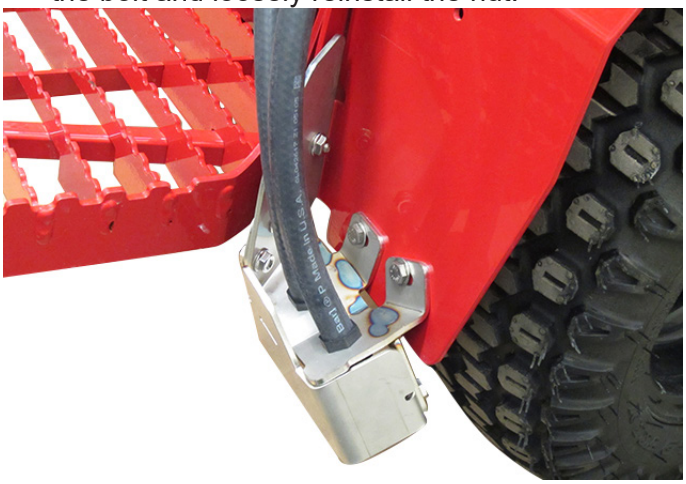
9. Remove the left frame side cover (B).
10. Remove the box of parts and hardware from the crate. Leave the brine tank assembly crated until the power unit has been fitted with brine nozzles and hoses.
11. Shape one of the 3/4" cushioned clamps so that the brine hose will slide through without pinching. Install the clamp (A) onto the left side of the main tower frame using the original hardware. Do not tighten.



12. Shape one of the 3/4" cushioned clamps so that the pump harness connector will slide through. Install the clamp (B) on the right side of the main tower frame using the original hardware. Do not tighten.
13. Remove the nut from the bolt that fastens the left rear fender to the rear flange on the main frame. Install the left brine nozzle mount onto the bolt and loosely reinstall the nut.

Fasten the brine nozzle mount to the left rear fender using 2) 1/4 x 3/4" bolts, washers, and flange nuts. Torque all three mounting bolts to 72 in-lbs (8 Nm).

14. Remove the nut from the bolt that fastens the right rear fender to the rear flange on the main frame. Install the right brine nozzle mount onto the bolt and loosely reinstall the nut.

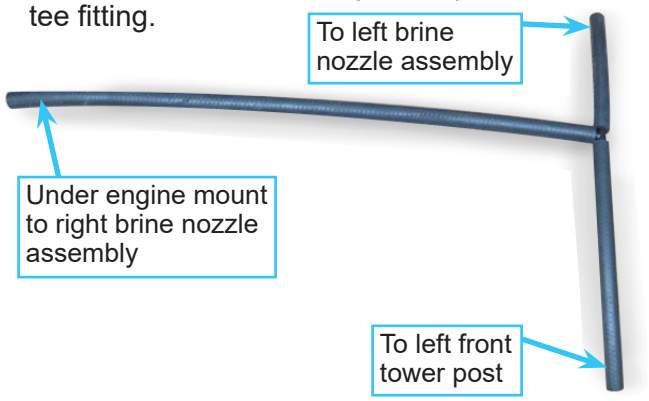


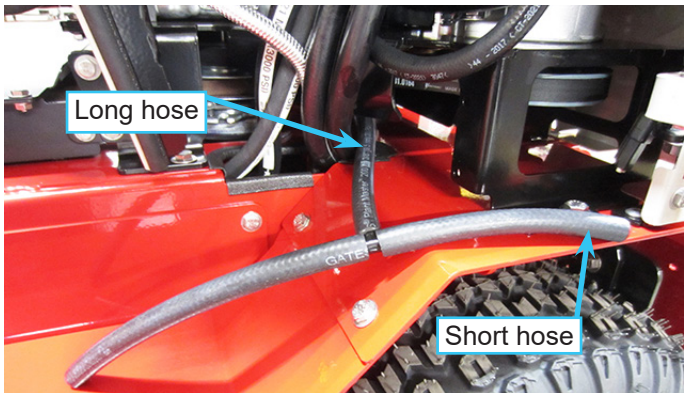
Fasten the brine nozzle mount to the right rear fender using 2) 1/4 x 3/4” bolts, washers, and flange nuts. Torque all three mounting bolts to 72 in-lbs (8 Nm).

15. Install the center brine nozzle mount onto the main frame in front of the operator platform using 2) 1/4 x 1” bolts, washers, and flange nuts.

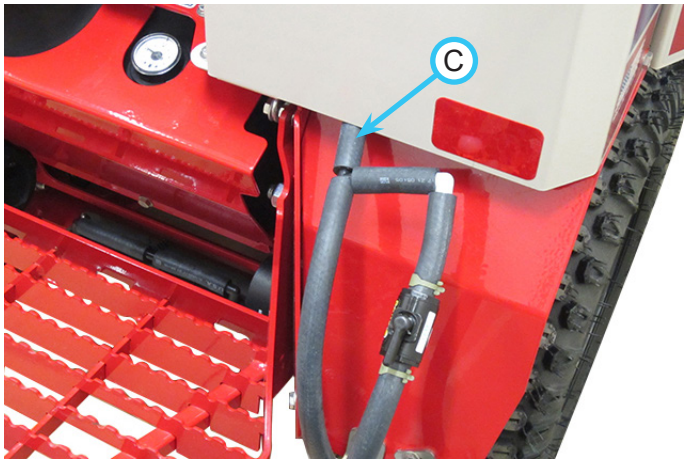
Torque to 72 in-lbs (8 Nm).

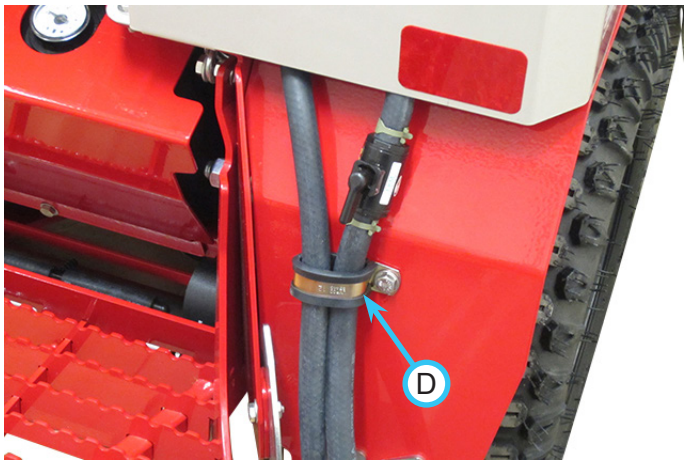
16. Locate the hose assembly with 3) hoses and a tee fitting.





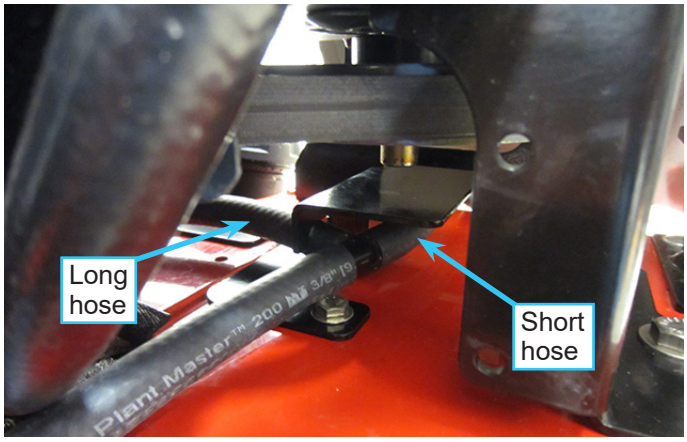
17. Route the long hose under the engine mount, in front of the fuel lines, through the slot in the frame, and back toward the right brine nozzle mount. Route the short hose back toward the left brine nozzle mount.
18. Pull the end of the long hose (C) out below the right rear cover and connect to the barbed fitting for the right brine nozzle assembly.





19. Push the hose connections up between the fender and rear cover. Place a 3/4” cushioned clamp (D) around the two hoses and fasten to the rear fender using a 1/4 x 1/2” bolt, washer, and flange nut. Torque to 72 in-lbs (8 Nm).

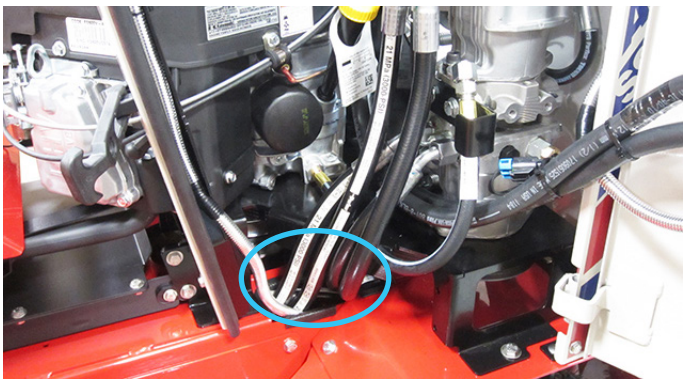
20. Repeat steps 18 & 19 to connect the short hose to the left brine nozzle assembly.
21. Place the hose retainer bracket over the hose that runs from left to right under the engine mount. Ensure the hose is captured by all three hooks on the bracket.



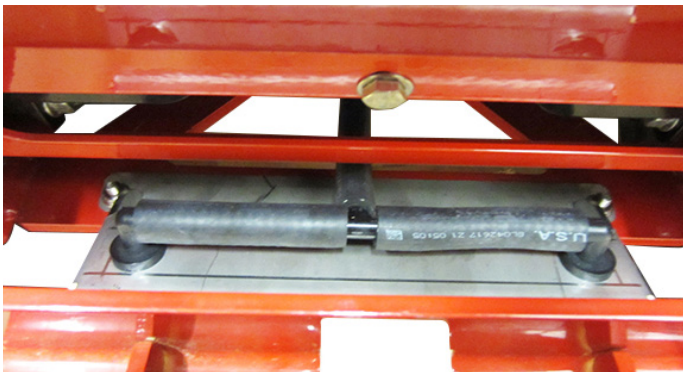
Fasten the bracket to the frame using 2) 1/4 x 3/4” bolts, washers, and flange nuts. Torque to 72 in-lbs (8 Nm).

22. Install the rubber grommet (E) into the hole in the main frame cross plate.

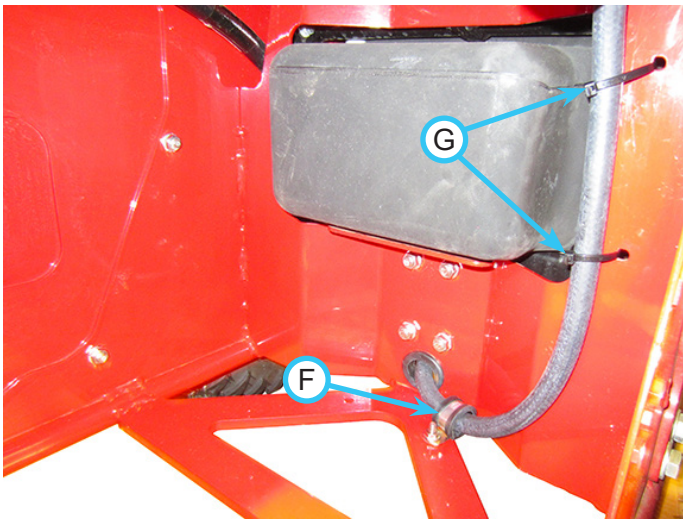
23. Locate the hose with a Tee fitting in one end. Route the end without the fitting down through the cutout for the hydraulic hoses in the left side of the main frame.



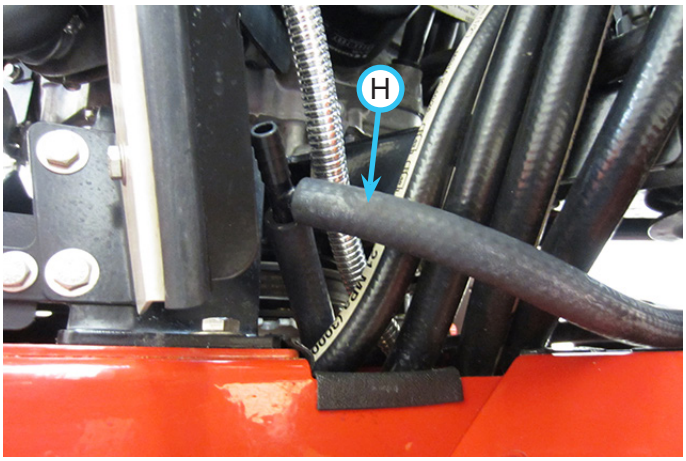
24. Route the hose through the grommet in the rear of the main frame and connect to the barbed fitting on the center brine nozzle assembly.



25. Use a 1/2” cushioned clamp (F) to secure the hose to the main frame below the fuel tank. Fasten the clamp to the frame using a 1/4 x 1” bolt, washer, and flange nut. Use two zip ties (G) to fasten the hose to the rear cross plate next to the fuel tank. Torque the clamp bolt to 72 in-lbs (8 Nm).



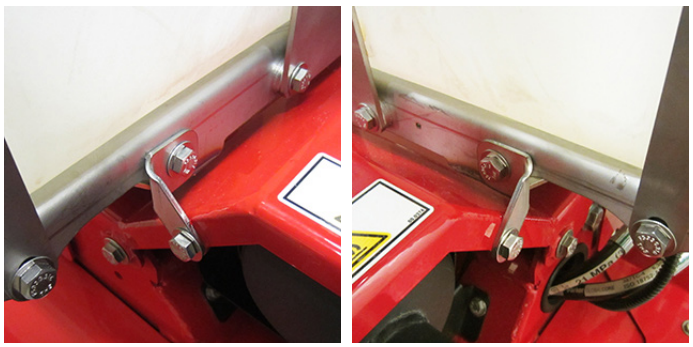
26. Connect the hose (H) from the left and right brine nozzle assemblies to the tee on the hose fitting.



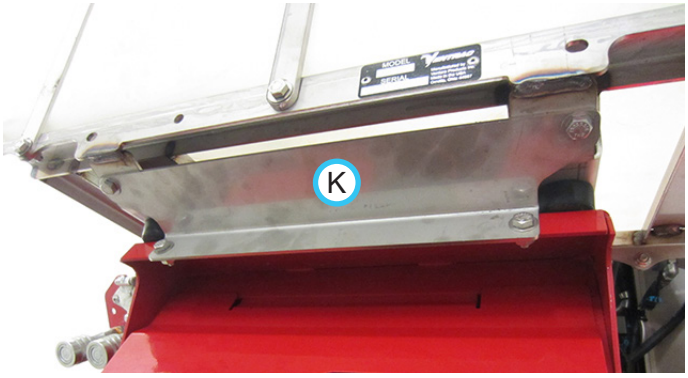
27. Unfasten the crate brackets from the crate and remove the brine tank assembly.
28. Remove the crate brackets from the tank frame. Save the hardware for reuse.
29. Install the left (I) and right (J) rear accessory mounts onto the tank frame using the hardware from the crate brackets. Do not tighten.
    NOTE: the power unit mounting flanges must be toward the outer edge of the frame.

30. Place the brine tank assembly onto the accessory mount/shield frame on the front of the power unit.

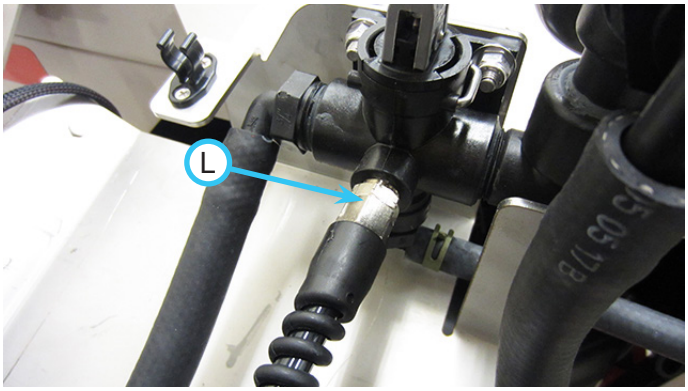
31. Fasten the left and right rear accessory mounts to the flanges of the accessory mount/shield frame using a 5/16 x 3/4” bolt, washer, and flange nut for each mount. Do not tighten.



32. Install the front accessory mount bracket (K) onto the brine tank frame and the front flange of the accessory mount/shield frame using 4) 5/16 x 3/4” bolts, washers, and flange nuts. Torque the bolts to 149 in-lbs (17 Nm).

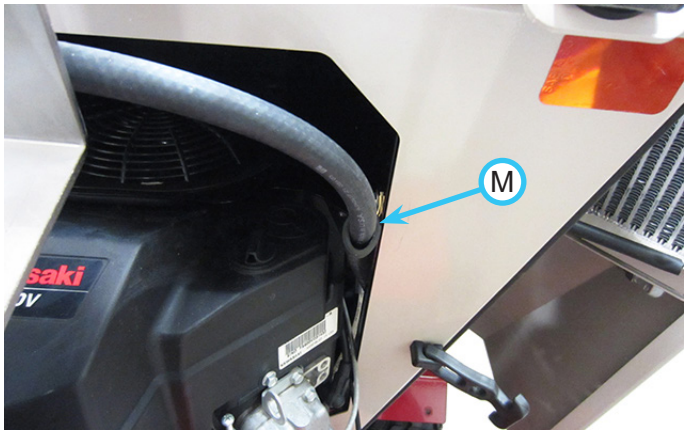


33. Torque the bolts for the left and right rear mounting brackets to 149 in-lbs (17 Nm).
34. Apply thread sealant to the fitting (L) on the spray gun hose and install into the front port on the on/off control valve.



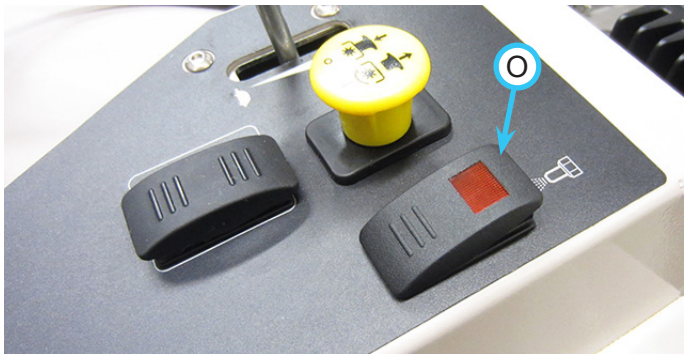
35. Insert the spray gun nozzle into the front holder and press the spray gun into the plastic clip next to the on/off control valve.

36. Route the hose from the bottom port of the on/off control valve through the clamp (M) on the left side of the main tower frame and down past the engine into the left frame area. Connect the hose to the tee fitting from the brine nozzles.

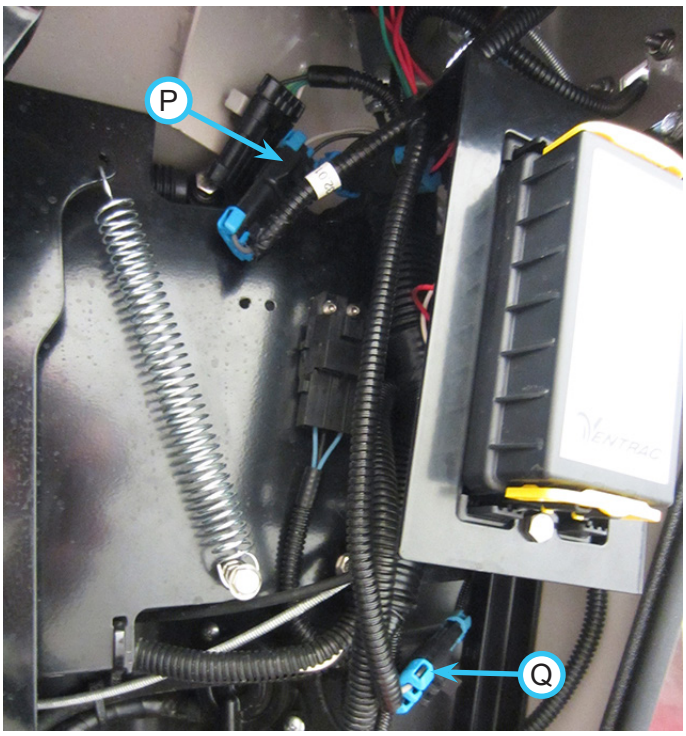


37. Rotate the clamp to hold the hose in proper alignment and torque the bolt to 72 in-lbs (8 Nm).
38. Route the connector on the pump harness through the clamp on the right side of the main tower and down past the engine into the right frame area.
39. Locate the switch location (N) in the right dash panel. Shining a light from beneath the dash will help show the area of the decal to remove.

40. Using a utility knife, cut the decal to match the hole in the dash panel.
41. Install the switch (O) into the dash cutout with the light toward the front of the power unit.



42. Locate the brine system wire harness and install the switch connector onto the switch. Hold the switch in place with one hand while installing the switch connector.
43. Locate the female MP280 connector (P) with gray (A-058) and black (A-116) wires behind the fuse panel. Remove the cap and connect to the male MP280 connector on the brine system harness.

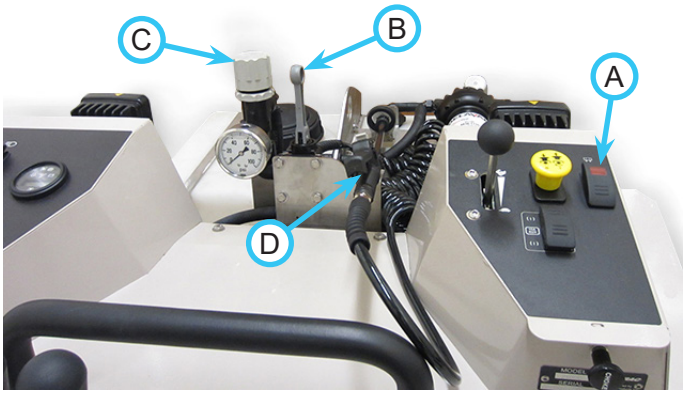


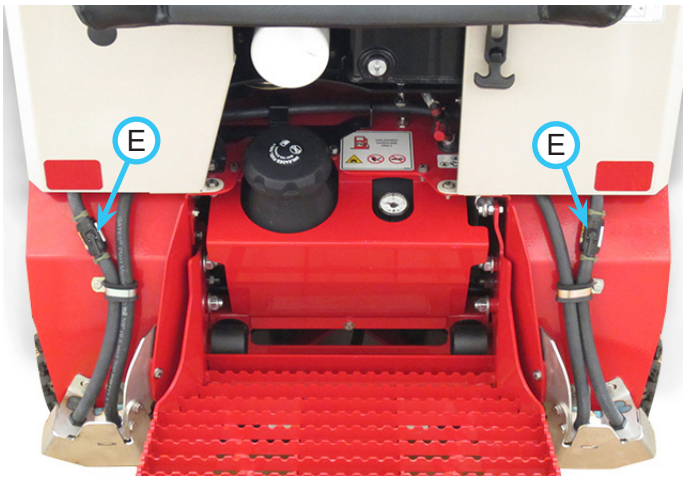
44. Connect the female MP280 connector (Q) on the brine system harness to the male MP280 connector on the pump harness.
45. Use a zip tie to fasten the brine system harness to the main harness behind the fuse panel.
46. Rotate the clamp on the tower frame to hold the wire harness in proper alignment and torque the bolt to 72 in-lbs (8 Nm).
47. Install the 15 amp fuse into position 8 in the fuse panel and reinstall the fuse panel cover.
48. Reinstall the left frame side cover. Torque bolts to 149 in-lbs (17 Nm).
49. Reinstall the left fender center platform. Torque bolts to 149 in-lbs (17 Nm).
50. Reinstall the pump belt drive cover. Torque the bolts to 72 in-lbs (8 Nm).
51. Place the operator cushion back on the power unit.
52. Reset the battery disconnect switch.

Installation is complete.

Operational Control Locations

Use the following images to help identify the locations of operational controls. The letter next to each control can be referenced to the list that follows these images.





A. Pump Switch
B. On/Off Control Valve
C. Pressure Regulating Valve
D. Hand Held Spray Gun
E. Outer Spray Nozzle Valves

Pump Switch (A)

Pressing the top portion of the pump switch turns on the brine system pump. The pump switch light will turn on when electrical power is being supplied to the pump. Pressing the bottom portion of the switch turns the pump off.

On/Off Control Valve (B)

The on/off control valve turns on or shuts off flow to the spray nozzles. Rotate the handle forward or backward 90 degrees to turn on the flow of brine solution to the spray nozzles. Rotate the handle to the vertical position to shut off the flow of brine solution to the spray nozzles. Brine solution flows through the control valve to the pressure regulating valve and the spray gun with the handle in all positions.

Pressure Regulating Valve (C)

The pressure regulating valve controls the pressure of the brine system. Turning the handle clockwise increases system pressure. Turning the handle counterclockwise decreases system pressure. The valve is equipped with a pressure relief bypass that returns excess brine solution to the main tank.

Hand Held Spray Gun (D)

The spray gun is equipped with a 15 foot (4 meter) coiled hose and is used to treat small or hard to reach areas. Squeeze the handle to activate the spray gun. The handle can be locked in the On position by pushing the handle lock forward.

The spray pattern can be adjusted by rotating the nozzle tip on the spray gun until the desired spray pattern is achieved.

Outer Spray Nozzle Valves (E)

The outer spray nozzle valves control the flow of brine solution to the outer nozzle on each side of the power unit.

Daily Inspection

⚠ WARNING

Always set the parking brake, shut off power unit engine, remove the ignition key, and ensure all moving parts have come to a complete stop before inspecting components, or attempting any repair or adjustment.

1. Park machine on a level surface, with the engine shut off and all fluids cold.
2. Perform a visual inspection of both the power unit and the brine system. Look for loose or missing hardware, damaged components, or signs of wear.
3. Inspect hoses and fittings to ensure tight, leak free connections.
4. Check nozzles for even spray pattern.
5. Refer to the power unit operator's manual. Check the power unit's engine oil, hydraulic oil, tire pressure, and fuel level. Add fluid or service as required.
6. Test the power unit's operator safety interlock system*.

Operating Procedure

Before operation, perform daily inspection, set the pressure regulating valve to the desired pressure, and turn the outer spray nozzles on or off to set the desired overall width of the spray pattern.

Move the machine into position and turn on the brine system pump. Move the on/off valve handle to the On position to start the flow of brine solution. Drive forward following the sidewalk or other treatment area. When the end of the treatment area is reached, stop the machine and move the on/off valve handle to the Off position.

When treating an area that is wider than the spray pattern, spray in a back and forth pattern until the entire area has been treated.

Use the spray gun to treat steps and hard to reach areas. Move the on/off valve handle to the Off position. Park the power unit close to the treatment area and engage the parking brake. Use the spray gun to treat the area, then return the spray gun to its storage position.

Spraying Width

The spraying width can be adjusted to match the width of the sidewalk being treated by turning the left and right outer spray nozzles on or off.

Outer spray nozzle valve positions	Spraying width
Both valves **On**	4 feet (122 cm)
One valve **On**, one valve **Off**	3-1/2 feet (106.7 cm)
Both valves **Off**	3 feet (91.4 cm)

Pressure Regulation

Adjusting the pressure varies the flow rate through the nozzles. Rotate the handle on the pressure regulating valve to increase or decrease the pressure to the desired setting. Tighten the plastic lock nut against the handle to lock the handle in the desired position. Note that pressures will change when the on/off valve is turned on and off as well as when the outer spray nozzles are turned on and off.

Brine System Pressure Settings

The following chart gives the recommended brine system pressure settings based on spraying width and power unit speed. Adjustments may be necessary to achieve your desired application results.

Recommended Brine System Pressure Settings			
Spray Width	**at 4 mph (6.4 km/h)**	**at 6 mph (9.7 km/h)**	**at 8 mph (12.9 km/h)**
3 feet (91.4 cm)	15 PSI	25 PSI	30 PSI
3-1/2 feet (106.7 cm)	15 PSI	25 PSI	Maximum Pressure
4 feet (122 cm)	15 PSI	Maximum Pressure	Maximum Pressure

⚠ WARNING

Always set the parking brake, shut off power unit engine, remove the ignition key, and ensure all moving parts have come to a complete stop before inspecting components or attempting any repair or adjustment.

⚠ Attention

If any component requires replacement, use only original Ventrac replacement parts.

Cleaning and General Maintenance

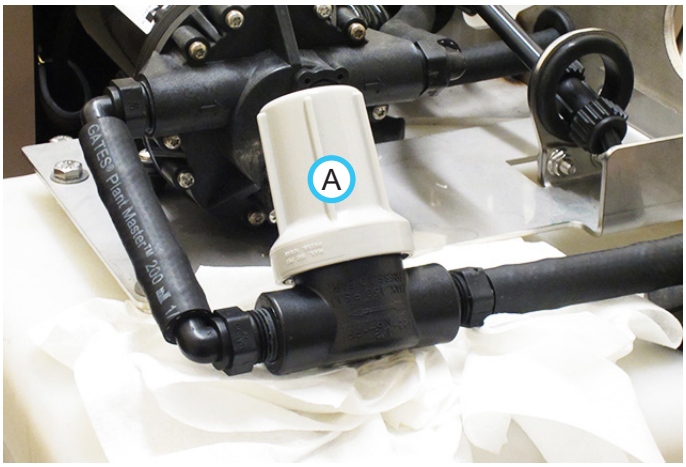
For best results, and to maintain the finish of the power unit and brine system, clean or wash the brine system and power unit to remove dirt, brine and salt deposits, and snow or ice accumulations.

⚠ Attention

To maintain the finish of the power unit and attachment, thoroughly wash the equipment after each use to remove any corrosive agents (e.g., salt). Failure to clean the equipment may result in corrosion of (including but not limited to) steel, aluminum, and electrical components. Equipment that will experience repeated exposure to corrosive agents should be pretreated with a corrosion preventative.

Cleaning the Filter Element

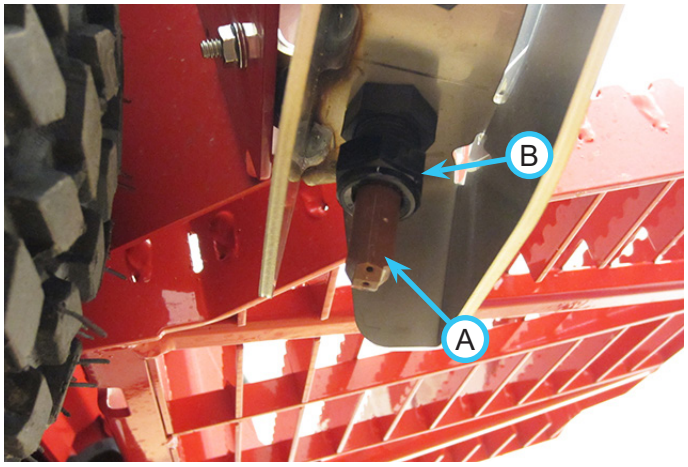
1. Turn off electrical power to the brine system pump.
2. Place a rag underneath the filter (A) to catch any spills or drips.



3. Loosen the filter cap slightly, then wait for several seconds to allow brine solution to drain back into the tank.
4. Remove the filter cap from the filter.
5. Carefully remove the filter screen from the filter head and rinse under clean running water to remove debris.
6. Insert the filter screen into the filter head.
7. Ensure the gasket is properly seated in the filter cap and reinstall the cap onto the filter head.

Cleaning the Nozzles

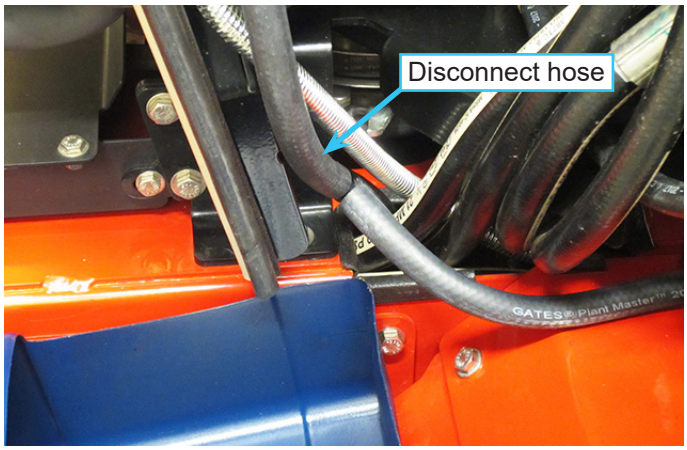
1. Park the power unit on a level surface.
2. Shut off the power unit's engine, engage the parking brake, and remove the key from the ignition.
3. Remove the nozzle tip (A) and filter screen from the nozzle base by unthreading the nut (B) from the base.



4. Rinse the filter screen under clean running water to remove debris.
5. Reinstall the filter screen and nozzle tip onto the nozzle base. Do not overtighten.

Draining and Flushing the Brine System

1. Park the power unit on a level surface.
2. Shut off the power unit's engine and engage the parking brake.
3. Move the on/off valve handle to the Off position.
4. If the brine tank is empty, skip to step 14.
5. If the brine tank is full, open the left door of the power unit.
6. Place a small basin next to the tee fitting at the base of the engine frame to catch any liquid that drains from the hose.



7. Disconnect the hose coming down from the brine system and let it drain into the basin.
8. Place a container next to the power unit to catch the brine solution.
9. Pull the hose out of the power unit and hold the end over the container.

10. Turn the ignition key to the On position and turn on the pump switch.
11. Move the on/off valve handle to the On position to discharge the brine solution into the container.
12. When the brine tank is empty, turn off the pump.
13. Reinstall the hose onto the tee fitting.
14. Refill the brine tank with clean water.
15. Turn on the pump switch and turn both outer nozzle valves to the On position. Check to ensure all the nozzles are being flushed.
16. Remove the spray gun from the power unit, squeeze the handle, and engage the handle lock.
17. Allow the system to flush until the brine tank is empty, then refill with clean water and flush a second time.
18. After flushing is complete, it is recommended to treat the system with RV antifreeze if the power unit will be stored outside in cold temperatures.
19. Add a gallon of RV antifreeze to the brine tank.
20. Turn on the pump switch and on/off valve and allow to run until the antifreeze starts to discharge from the nozzles.
21. Turn the on/off valve to the Off position to shut off flow to the nozzles.
22. Remove the spray gun from the power unit and squeeze the handle until antifreeze discharges from the spray gun.
23. Turn off the pump switch. The brine system is now treated for cold weather storage.

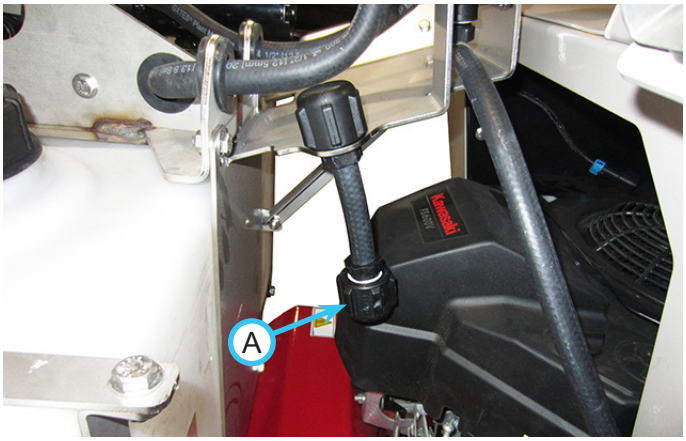
Storage Between Snow Events

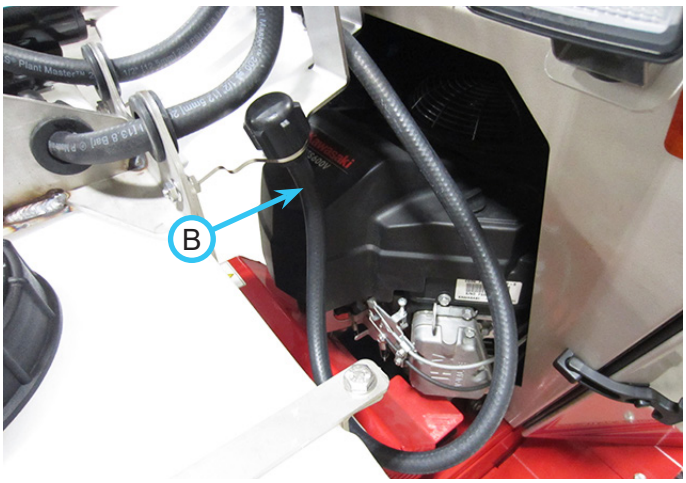
Store inside to prevent freezing when temperatures are extremely low. Drain, flush, and treat the brine system if the machine will be stored outside during extremely low temperatures.

Removal of Brine Tank

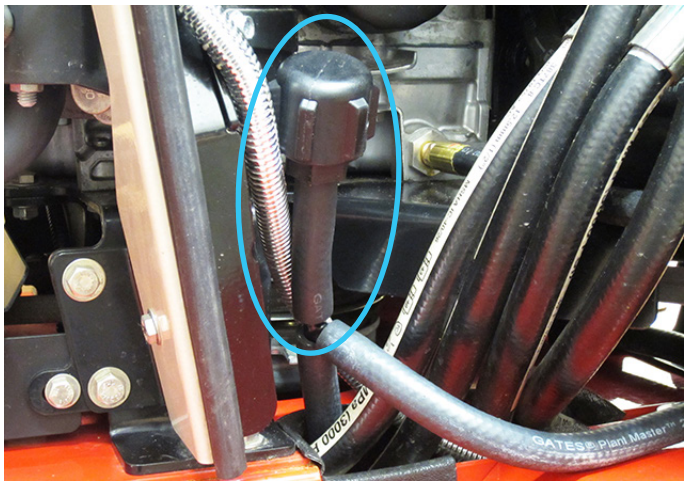
If the brine system will not be used for an extended period of time, the brine tank and controls can be removed from the power unit, while leaving the hoses, brackets, and nozzles in place.

1. Wash the power unit and brine system thoroughly to remove brine deposits.
2. Park the power unit on a level surface.
3. Shut off the power unit's engine and engage the parking brake.
4. Drain and flush the brine system.
5. Open the left door of the power unit.
6. Place a small basin next to the tee fitting at the base of the engine frame to catch any liquid that drains from the hose.
7. Disconnect the hose coming down from the brine system and let it drain into the basin.
8. Pull the hose out of the front of the power unit tower frame.
9. Remove the cap (A) from the fitting mounted on the valve control bracket and install the end of the hose (B) onto the fitting for storage.





10. Install the cap onto the lower tee fitting where the hose was removed.



11. Disconnect the pump wire connector from the power unit harness and remove from the clamp on the power unit.
12. Cap or tape the connector on the power unit harness to prevent dust and deposits from contaminating the terminals and prevent the loss of the connector seal.
13. Remove the hardware that fastens the front mounting bracket and the left and right rear mounting brackets to the accessory mount shield frame.
14. Use a hoist to lift the brine tank assembly off the power unit. Use care to ensure the brine controls and spray gun do not catch on or bump into other parts on the power unit.
15. After removing the tank assembly from the power unit, the plug in the bottom of the tank can be removed to drain the tank completely before placing in storage.

SPECIFICATIONS

Dimensions

Overall Height	28 inches (71.1 cm)
Overall Length	24 inches (61 cm)
Overall Width	28-1/2 inches (72.4 cm)
Weight (Dry)	75 pounds (34 kg)
Brine Capacity	20 gallons (75.7 L)
Spray Width	36 - 48 inches (91.4 - 122 cm)

Features

All stainless steel construction

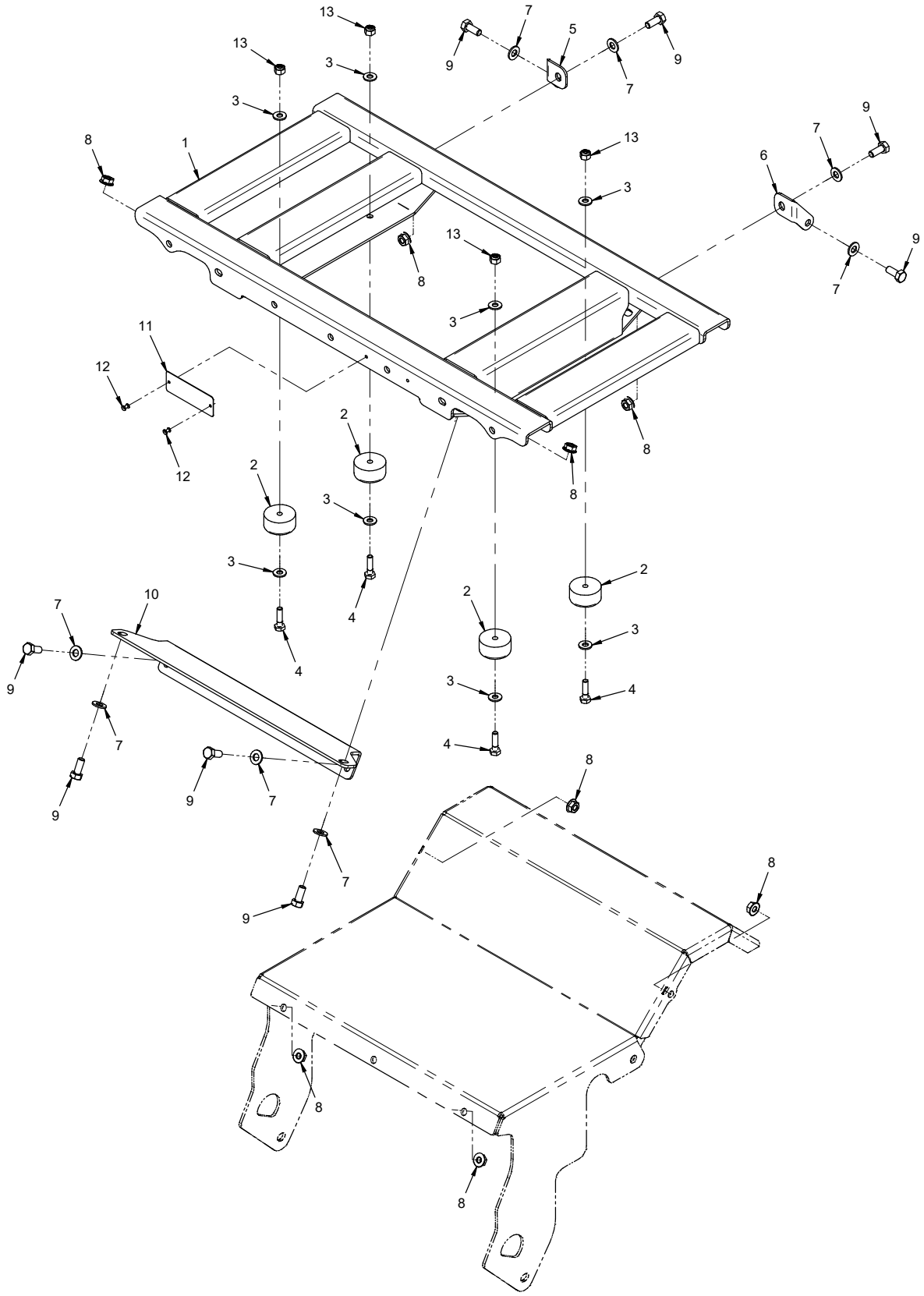
Rear mounted spray nozzles with adjustable spray width

Hand held spray gun with 15’ (4 meter) coiled hose

Pressure regulating relief valve

In-line main filter and filter screens at each nozzle

ILLUSTRATED DRAWING
Tank Base Frame Mount

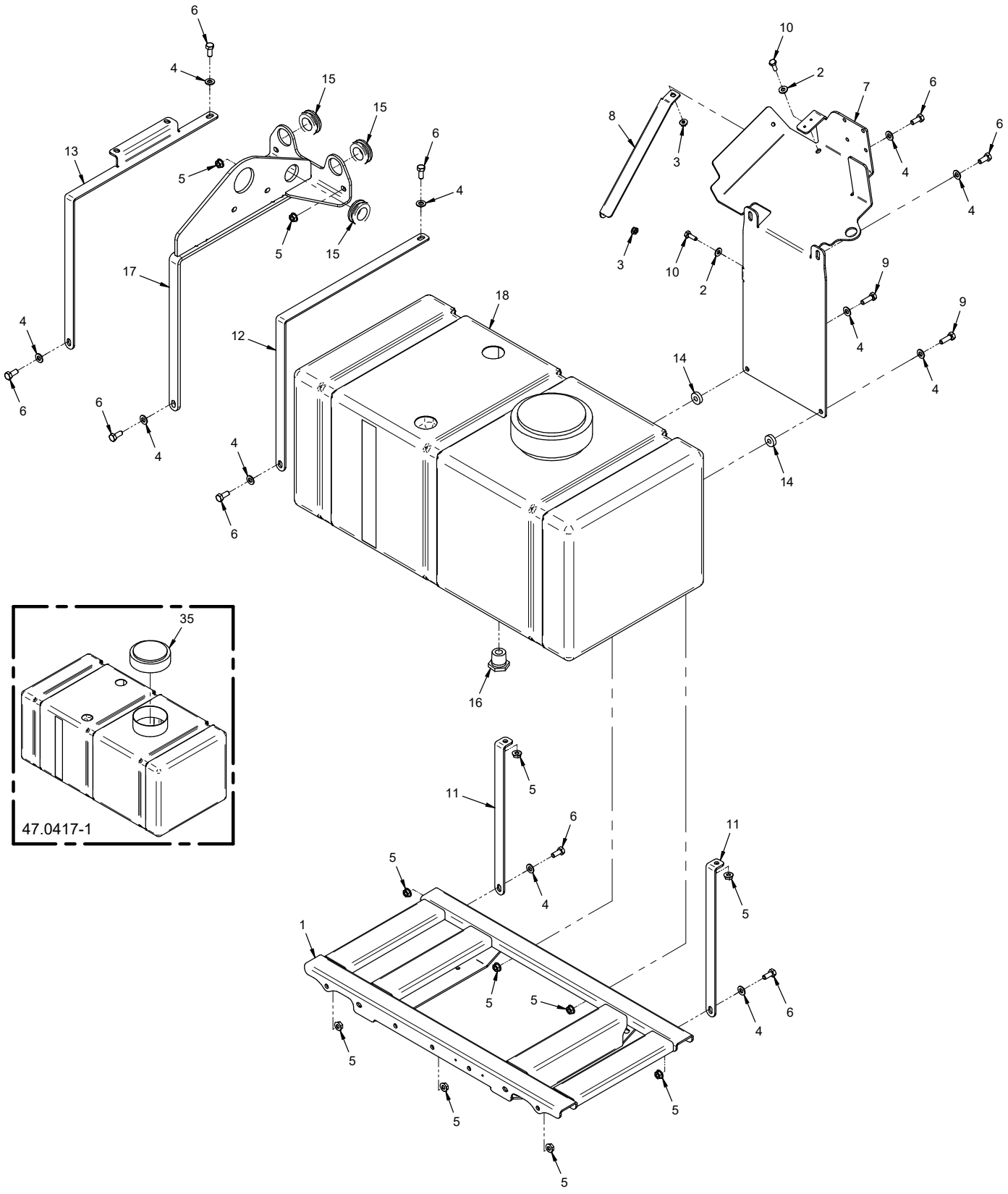


Use only original Ventrac replacement parts.

Tank Base Frame Mount

REF.	PART NO.	DESCRIPTION	QTY.
1	NB-6100	Frame, Brine Tank Base	1
2	05.0095	Bumper, Rubber Cylindrical	4
3	95.04-3	Washer, Flat 1/4 SAE SS	8
4	90.0408-3	Bolt, 1/4-20 USS x 1 SS	4
5	NB-1123	Bracket, Accessory Mount Right	1
6	NB-1124	Bracket, Accessory Mount Left	1
7	95.05-3	Washer, Flat 5/16 SAE SS	8
8	99.SF05-3	Nut, SRF 5/16-18 USS Stainless	8
9	90.0506-3	Bolt, 5/16-18 USS x 3/4 SS	8
10	NB-1165	Bracket, Accessory Mount Front	1
11	N/A	Plate, Ventrac Serial Number	1
12	04.0029	Rivet, Pop 1/8” X 1/4”	2
13	99.A04N-3	Locknut, Nylon 1/4-20 USS SS	4

ILLUSTRATED DRAWING
Brine Tank & Mounting Straps



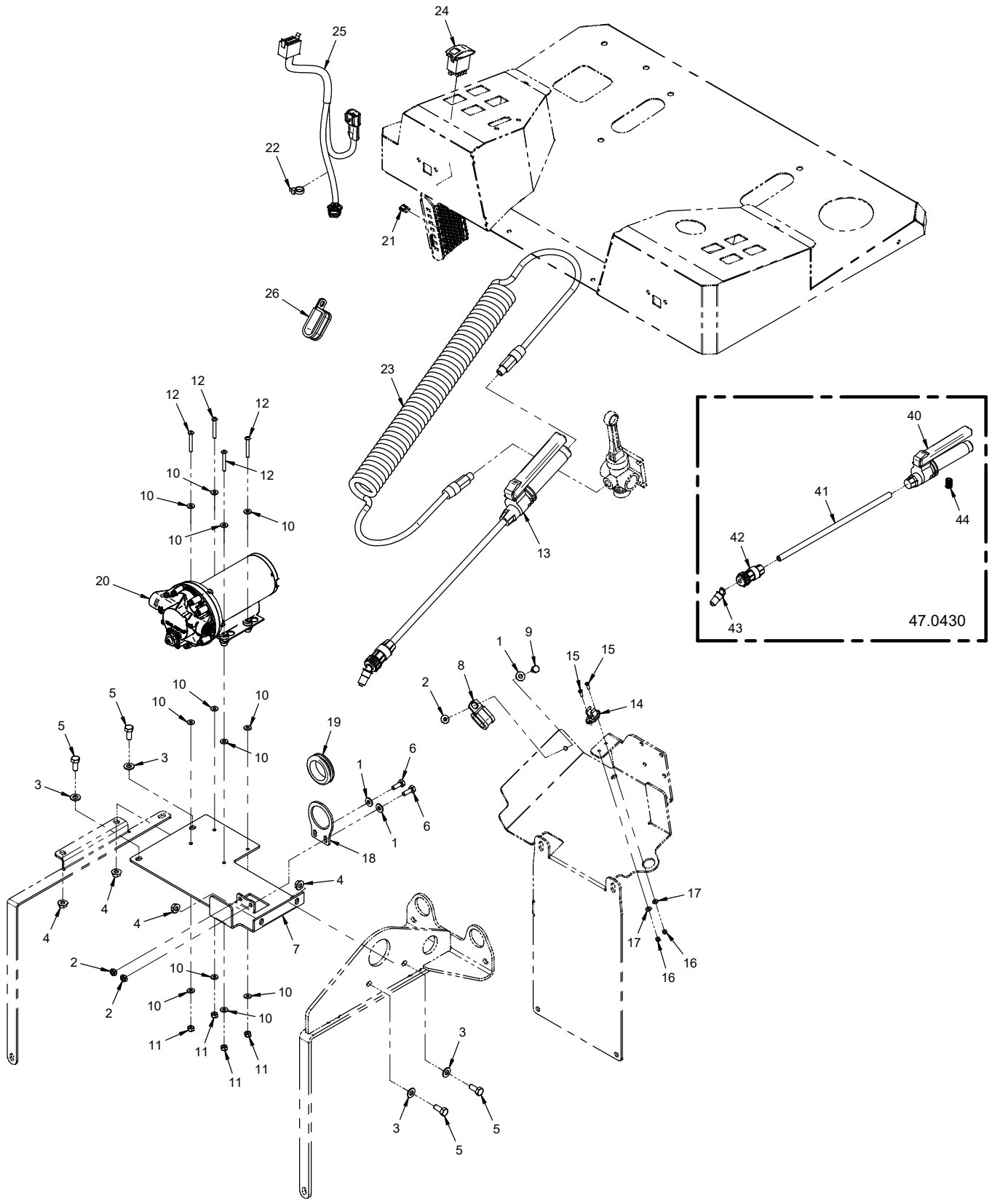
Use only original Ventrac replacement parts.

Brine Tank & Mounting Straps

REF.	PART NO.	DESCRIPTION	QTY.
1	NB-6100	Frame, Brine Tank Base	1
2	95.04-3	Washer, Flat 1/4 SAE SS	2
3	99.SF04-3	Nut, SRF 1/4-20 USS Stainless	2
4	95.05-3	Washer, Flat 5/16 SAE SS	11
5	99.SF05-3	Nut, SRF 5/16-18 USS Stainless	11
6	90.0506-3	Bolt, 5/16-18 USS x 3/4 SS	9
7	NB-1128	Bracket, Valve Controls	1
8	NB-1151	Brace, Control Bracket	1
9	90.0508-3	Bolt, 5/16-18 USS X 1 SS.	2
10	90.0406-3	Bolt, 1/4-20 USS x 3/4 SS	2
11	NB-1140	Strap, Tank Mount Rear	2
12	NB-1125	Strap, Tank Mount Left	1
13	NB-1107	Strap, Tank Mount Right	1
14	NB-1126	Washer, 11/32 x 7/8 x 1/4T SS	2
15	05.0177	Grommet, 1” ID, 1-3/4” OD, 5/8” Thk	3
16	29.0114	Fitting, Plug 3/4” MPT	1
17	NB-6106	Strap, Center Lift Bracket	1
18	47.0417-1	Tank, Plastic 20 Gal W/Port Holes	1
35	47.0443	Lid, 5” W/ Spring Vent.	1

ILLUSTRATED DRAWING

Pump & Pump Mount, Spray Gun & Mount, Pump Switch



Use only original Ventrac replacement parts.

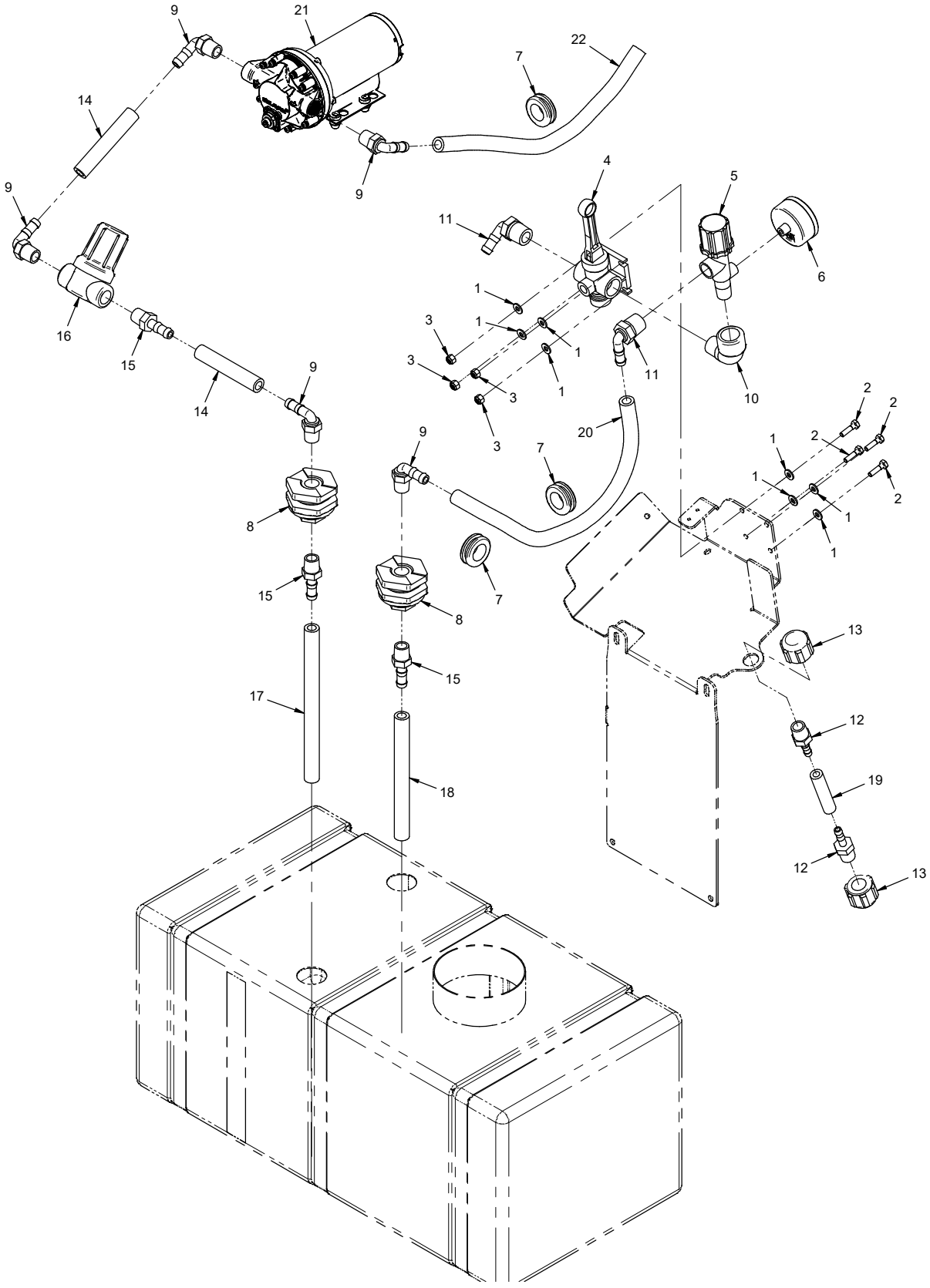
PARTS

Pump & Pump Mount, Spray Gun & Mount, Pump Switch

REF.	PART NO.	DESCRIPTION	QTY.
1	95.04-3	Washer, Flat 1/4 SAE SS	3
2	99.SF04-3	Nut, SRF 1/4-20 USS Stainless	3
3	95.05-3	Washer, Flat 5/16 SAE SS	4
4	99.SF05-3	Nut, SRF 5/16-18 USS Stainless	4
5	90.0506-3	Bolt, 5/16-18 USS x 3/4 SS	4
6	90.0406-3	Bolt, 1/4-20 USS x 3/4 SS	2
7	NB-1129	Plate, Pump Mount	1
8	11.0046	Clamp, Cushioned 1/2” 2-Tube	1
9	90.0404-3	Bolt, 1/4-20 USS x 1/2 SS	1
10	99.B0126	Washer, Flat #10 SS	12
11	99.A1032N	Locknut, Nylon 10-32 Stainless	4
12	99.K0154	Machine Screw, #10-32 X 1-1/2 SS	4
13	47.0430	Spray Gun, 15” Ext. #12 Nozzle	1
14	47.0437	Clip, Tool Holder 7/16 - 9/16” Dia.	1
15	99.K0153	Machine Screw, #6-32 x 1/2 SS	2
16	99.E0118	Locknut, Nylon #6-32 SS	2
17	99.B0127	Washer, Flat #6 SS	2
18	NB-1135	Mount, Sprayer Front	1
19	05.0036	Grommet, 1 1/2ID,2 1/8OD,9/16T	1
20	37.0066	Pump, 12V Bypass	1
21	30.0334	Fuse, 15 Amp Mini Blue	1
22	30.0037	Tyton Tie, #50 .18 x 8 Black	1
23	27.0006	Hose Asm, 1/4” ID Coiled Black	1
24	31.0053	Switch, Rocker On/Off	1
25	32.0189	Harness, Wire NT Brine System	1
26	11.0071	Clamp, Cushioned 3/4” 2-Tube	1
40	47.0430-1	Handle, Spray Gun	1
41	47.0430-2	Extension, Spray Gun	1
42	47.0430-3	Adapter, Spray Gun Straight	1
43	47.0430-4	Tip Assembly, 45 Deg Adjustable	1
44	47.0430-5	Kit, Spray Gun Repair	1

ILLUSTRATED DRAWING

Brine Control Valves, Intake & Return Hose Circuit



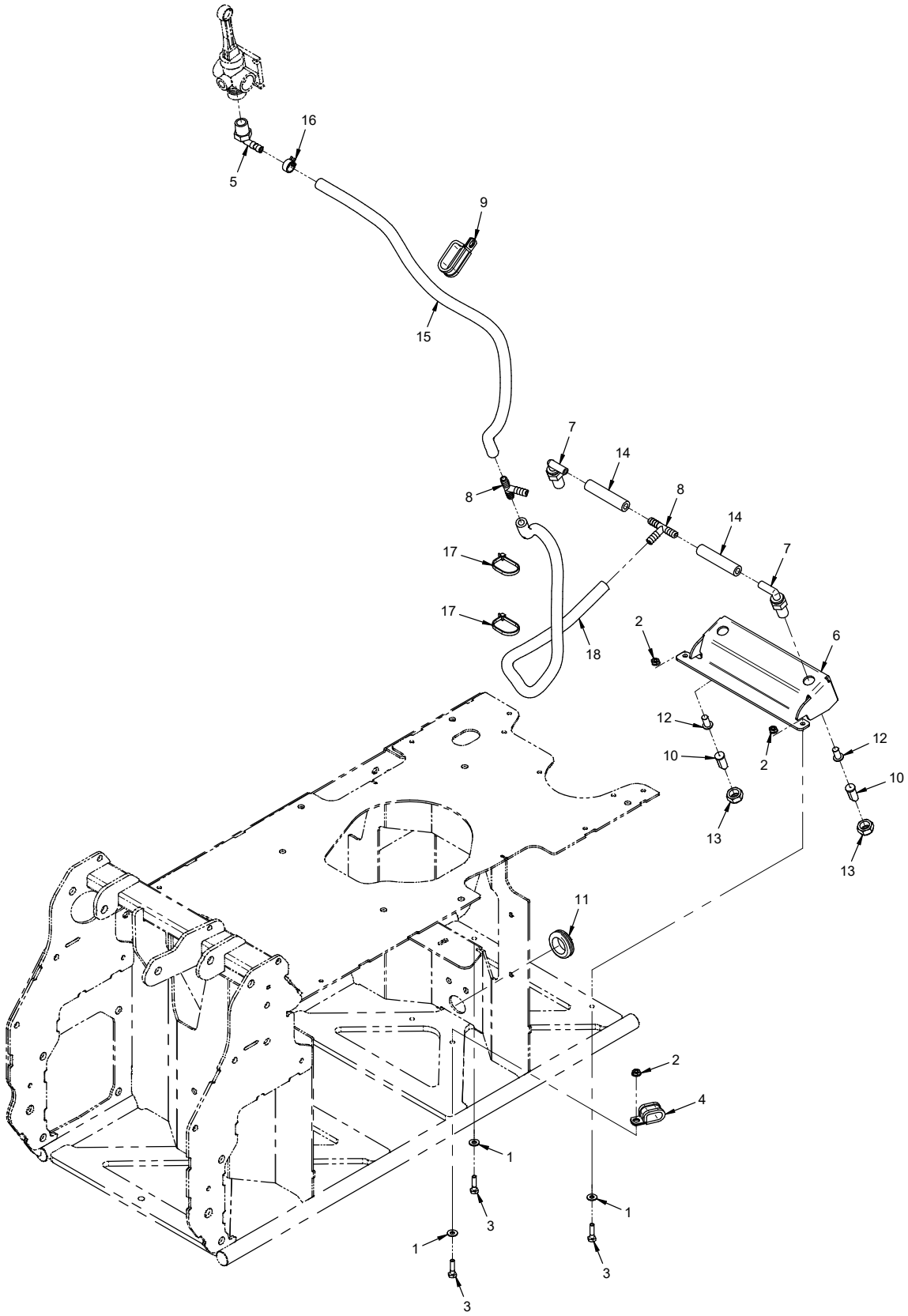
Use only original Ventrac replacement parts.

Brine Control Valves, Intake & Return Hose Circuit

REF.	PART NO.	DESCRIPTION	QTY.
1	95.04-3	Washer, Flat 1/4 SAE SS	8
2	90.0408-3	Bolt, 1/4-20 USS x 1 SS	4
3	99.A04N-3	Locknut, Nylon 1/4-20 USS SS	4
4	23.0179	Valve, On/Off Control w/ Bypass	1
5	23.0180	Valve, Pressure Regulating Relief	1
6	35.0157	Gauge, Pressure 100 PSI.	1
7	05.0177	Grommet, 1” ID, 1-3/4” OD, 5/8” Thk	3
8	29.0105	Fitting, Tank 1/2” FPT	2
9	29.0107	Fitting, 90 Elbow 1/2 MPT x 1/2 Barb	5
10	29.0111	Fitting, Street Elbow 3/4”	1
11	29.0106	Fitting, 90 Elbow 3/4 MPT x 1/2 Barb	2
12	29.0110	Fitting, St 1/2 MPT x 3/8 Barb	2
13	29.0112	Fitting, Cap 1/2” FPT	2
14	27.0005-4.5IN	Hose, EPDM Black 1/2” ID x 4-1/2”	2
15	29.0109	Fitting, St 1/2 MPT x 1/2 Barb	3
16	47.0429	Strainer, 1/2” MPT 50 Mesh	1
17	27.0005-10IN	Hose, EPDM Black 1/2” ID x 10”	1
18	27.0005-8IN	Hose, EPDM Black 1/2” ID x 8”	1
19	27.0007-3IN	Hose, EPDM Black 3/8” ID x 3”	1
20	27.0005-17IN	Hose, EPDM Black 1/2” ID x 17”	1
21	37.0066	Pump, 12V Bypass	1
22	27.0005-14.25IN	Hose, EPDM Black 1/2” ID x 14-1/4”	1

ILLUSTRATED DRAWING

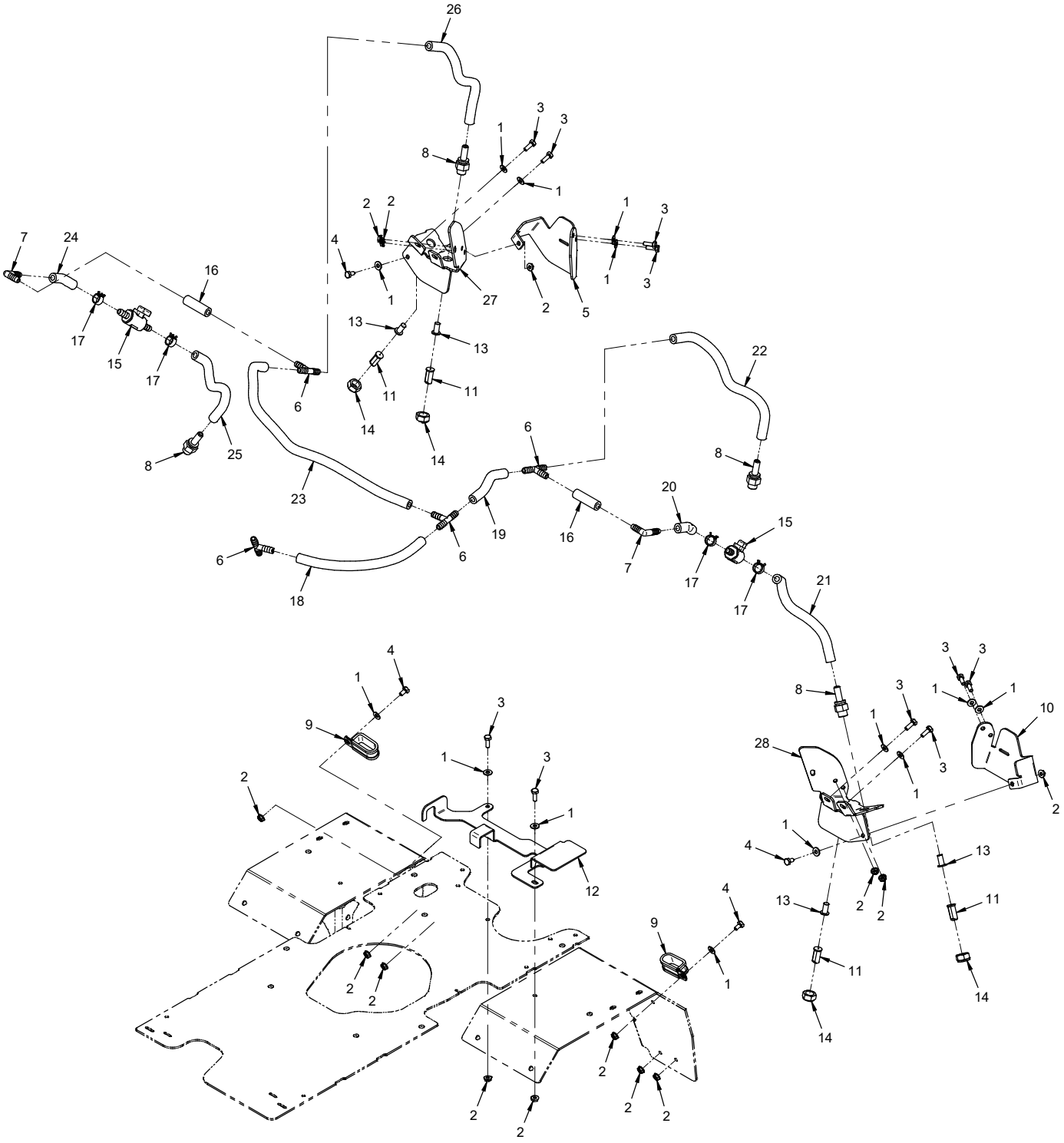
Rear Supply Hose, Center Nozzle Hose, & Center Nozzles



Rear Supply Hose, Center Nozzle Hose, & Center Nozzles

REF.	PART NO.	DESCRIPTION	QTY.
1	95.04-3	Washer, Flat 1/4 SAE SS	3
2	99.SF04-3	Nut, SRF 1/4-20 USS Stainless	3
3	90.0408-3	Bolt, 1/4-20 USS x 1 SS	3
4	11.0046	Clamp, Cushioned 1/2” 2-Tube	1
5	29.0108	Fitting, 90 Elbow 1/2 MPT x 3/8 Barb	1
6	NB-1200	Mount, Brine Nozzle Center	1
7	47.0432	Nozzle Body, 90 Elbow	2
8	29.0115	Fitting, Tee Barb 3/8 x 3/8 x 3/8	2
9	11.0071	Clamp, Cushioned 3/4” 2-Tube	1
10	47.0439	Nozzle, 3 Hole 05 Orifice	2
11	05.0060	Grommet, 1-1/8 ID, 1-3/4 OD	1
12	47.0434	Nozzle Strainer, Check Valve	2
13	47.0435	Cap, Nozzle	2
14	27.0007-3.25IN	Hose, EPDM Black 3/8” ID x 3-1/4”	2
15	27.0007-30IN	Hose, EPDM Black 3/8” x 30”	1
16	11.0086	Clamp, Hose Band 5/8” OD Hose	1
17	30.0037	Tyton Tie, #50 .18 x 8 Black	2
18	27.0007-32IN	Hose, EPDM Black 3/8” x 32”	1

ILLUSTRATED DRAWING
Left & Right Outer Nozzles



Use only original Ventrac replacement parts.

Left & Right Outer Nozzles

REF.	PART NO.	DESCRIPTION	QTY.
1	95.04-3	Washer, Flat 1/4 SAE SS	14
2	99.SF04-3	Nut, SRF 1/4-20 USS Stainless	14
3	90.0406-3	Bolt, 1/4-20 USS x 3/4 SS	10
4	90.0404-3	Bolt, 1/4-20 USS x 1/2 SS	4
5	NB-1275	Shield, Brine Nozzle Right	1
6	29.0115	Fitting, Tee Barb 3/8 x 3/8 x 3/8	4
7	29.0116	Fitting, 90 Elbow 3/8 Barb	2
8	47.0431	Nozzle Body, Straight	4
9	11.0071	Clamp, Cushioned 3/4” 2-Tube	2
10	NB-1280	Shield, Brine Nozzle Left	1
11	47.0439	Nozzle, 3 Hole 05 Orifice	4
12	NB-1305	Bracket, Hose Retainer	1
13	47.0434	Nozzle Strainer, Check Valve	4
14	47.0435	Cap, Nozzle	4
15	23.0181	Valve, Micro Ball 3/8” Barb	2
16	27.0007-2.25IN	Hose, EPDM Black 3/8” ID x 2-1/4”	2
17	11.0086	Clamp, Hose Band 5/8” OD Hose	4
18	27.0007-9.5IN	Hose, EPDM Black 3/8” x 9-1/2”	1
19	27.0007-6IN	Hose, EPDM Black 3/8” ID x 6”	1
20	27.0007-2.5IN	Hose, EPDM Black 3/8” ID x 2-1/2”	1
21	27.0007-9.5IN	Hose, EPDM Black 3/8” ID x 9-1/2”	1
22	27.0007-13IN	Hose, EPDM Black 3/8” ID x 13”	1
23	27.0007-23IN	Hose, EPDM Black 3/8” ID x 23”	1
24	27.0007-2.5IN	Hose, EPDM Black 3/8” ID x 2-1/2”	1
25	27.0007-9.5IN	Hose, EPDM Black 3/8” ID x 9-1/2”	1
26	27.0007-13IN	Hose, EPDM Black 3/8” ID x 13”	1
27	NB-6205	Mount, Brine Nozzle Right	1
28	NB-6200	Mount, Brine Nozzle Left	1

WARRANTY

LIMITED WARRANTY - VENTRAC TURF EQUIPMENT

Venture Products, Inc., (henceforth referred to as V.P.I.) warrants on the terms and conditions herein, that it will repair, replace, or adjust any part manufactured by Venture Products Inc., and found by Venture Products, Inc., to be defective in material and/or workmanship during the applicable warranty term.

All Ventrac commercial equipment purchased and registered on or after January 1, 2019 will carry a 2-year commercial warranty. The warranty period begins on the date of original customer purchase:

Ventrac Commercial Equipment	Warranty Term
2100 SSV & Attachments	2-year
3000 Series Tractors & Attachments	2-year
4000 Series Tractors & Attachments	2-year

All Ventrac add-on kits and accessories such as: 3-point hitch, 12V front & rear power outlets, foot pedal, dual wheel kit, etc., will be covered under the above warranty periods provided they are installed by an Authorized Ventrac Dealer. This warranty may be transferred and will carry the remainder of the warranty starting from the original purchase/registration date with the dealership and/or V.P.I.

The engine warranty is covered by its respective engine manufacturer. Please refer to the engine manufacturer's warranty statement that is included in the owner's manual.

For warranty consideration on Ventrac commercial equipment, including any defective part, must be returned to an Authorized Ventrac Dealer within the warranty period. The warranty shall extend to the cost to repair or replace (as determined by V.P.I.) the defective part. The expense of pickup and delivery of equipment, service call drive time or any transportation expense incurred for warranty repair is the sole responsibility of the owner and is not covered under warranty by Ventrac and/or V.P.I. Ventrac and V.P.I.'s responsibility in respect to claims is limited to making the required repairs or replacements, and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any Ventrac equipment. Proof of purchase may be required by the dealer to substantiate any warranty claim. Only warranty work performed and submitted by an Authorized Ventrac Dealer may be eligible for warranty credit.

This warranty extends only to Ventrac commercial equipment operated under normal conditions and properly serviced and maintained. The warranty expressly does NOT cover: (a) any defects, damage or deterioration due to normal use, wear and tear, or exposure; (b) normal maintenance services, such as cleaning, lubrication, oil change; (c) replacement of service items, such as oil, lubricants, spark plugs, belts, rubber hoses, bearings or other items subject to normal service replacement; (d) damage or defects arising out of, or relating to abuse, misuse, neglect, alteration, negligence or accident; (e) repair or replacement arising from operation of, or use of the equipment which is not in accordance with operating instructions as specified in the operator's manual or other operational instructions provided by V.P.I.; (f) repair or replacement arising as a result of any operation from Ventrac equipment that has been altered or modified so as to, in the determination of V.P.I., adversely affect the operation, performance or durability of the equipment or that has altered, modified or affected the equipment so as to change the intended use of the product; (g) repair or replacement necessitated by the use of parts, accessories or supplies, including gasoline, oil or lubricants, incompatible with the equipment or other than as recommended in the operator's manual or other operational instructions provided by V.P.I.; (h) repairs or replacements resulting from parts or accessories which have adversely affected the operation, performance or durability of the equipment; or (i) damage or defects due to or arising out of repair of Ventrac equipment by person or persons other than an authorized Ventrac service dealer or the installation of parts other than genuine Ventrac parts or Ventrac recommended parts.

LIMITED WARRANTY - VENTRAC TURF EQUIPMENT

The sole liability of V.P.I. with respect to this warranty shall be the repair and replacement as set forth herein. V.P.I. shall have no liability for any other cost, loss, or damage. In particular V.P.I shall have no liability or responsibility for: (i) expenses relating to gasoline, oil, lubricants; (ii) loss, cost or expense relating to transportation or delivery of turf equipment from the location of owner or location where used by owner to or from any Authorized Ventrac Dealer; (iii) travel time, overtime, after hours' time or other extraordinary repair charges or charge relating to repairs or replacements outside of normal business hours at the place of business of an Authorized Ventrac Dealer; (iv) rental of like or similar replacement equipment during the period of any warranty repair or replacement work; (v) any telephone or telegram charges; (vi) loss or damage to person or property other than that covered by the terms of this warranty; (vii) any claims for lost revenue, lost profit or additional cost or expense incurred as a result of a claim of breach of warranty; or (viii) attorney's fees.

The remedies of buyer set forth herein are exclusive and are in lieu of all other remedies. The liability of V.P.I., whether in contract, tort, under any warranty, or otherwise, shall not extend beyond its obligation as set forth herein. V.P.I. shall not be liable for cost of removal or installation nor shall V.P.I. be responsible for any direct, indirect, special or consequential damages of any nature. In no event shall V.P.I. be liable for any sum in excess of the price received for the goods for which liability is claimed.

There are no representations or warranties which have been authorized to the buyer of the Ventrac commercial equipment other than set forth in this warranty. Any and all statements or representations made by any seller of this equipment, including those set forth in any sales literature or made orally by any sales representative, are superseded by the terms of this warranty. Any affirmation of fact or promise made by V.P.I. or any of its representatives to the buyer which relates to the goods that are the subject to this warranty shall not be regarded as part of the basis of the bargain and shall not be deemed to create any express warranty that such goods shall conform to the affirmation or promise.

No employee, distributor, or representative is authorized to change the foregoing warranties in any way or grant any other warranty on behalf of V.P.I.

Some states do not allow limitations on how long an implied warranty lasts or allow the exclusion on limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

This warranty applies to all Ventrac commercial equipment sold by Venture Products Inc.