

Operator's Manual

NW3 10

Windscreen





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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.

Dealer _____ Date of Purchase: _____

Dealer Address: _____

Dealer Phone Number: _____ Dealer Fax Number: _____

With your mobile device, you can scan the QR code on the serial number plate to access manuals, warranty, and other product information.



Model # _____

Serial # _____



Venture Products Inc. reserves the right to make changes in design or specifications without obligation to make like changes on previously manufactured products.

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INTRODUCTION



Venture Products Inc. is pleased to provide you with your new Ventrac windscreen for your 2120 SSV! We hope that Ventrac equipment will provide you with a ONE Tractor Solution.

Product Description

The NW310 windscreen features a hardcoat lexan front windshield with a manual wiper for clearing snow from the windshield. The side windscreens are made of canvas with clear vinyl windows. The windscreen is both removable and foldable for storage or when trailering the SSV power unit.

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 and maintain your machine, and to avoid injury and product damage. It is divided into chapters for convenient reference of the appropriate information.

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. 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.

INTRODUCTION

Using Your Manual

This manual identifies potential hazards and safety concerns to help you, as well as others, avoid personal injury and/or damage to the equipment.

Safety should always be the first 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.

SYMBOL DEFINITIONS



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.

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.

This manual also uses two words to highlight information. **ATTENTION** calls attention to special mechanical information to prevent equipment damage and/or best practices for equipment service and care.

NOTE emphasizes general information that is worthy of special attention.

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 facing forward from the operator station.

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.

SAFETY



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.

SAFETY



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



- Look behind and down before backing up to be sure of a clear path.
- 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.
- Power units, attachments, and accessories are not designed or intended for travel on public roadways. Never operate or travel on public roads or highways.

SAFETY



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



- Operate with safety lights when operating near 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.

Keep Riders Off

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

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.

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.

SAFETY



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



- 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, adjusting, 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.

SAFETY



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



- 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.

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.

SAFETY



NW310 Safety Procedures



- Make sure the windscreen frames are properly positioned and securely latched in the mounting brackets prior to operation.
- Never trailer the SSV power unit with the windscreen attached. The windscreen must be removed prior to trailering in order to prevent damage to the windscreen and/or damage to other vehicles.

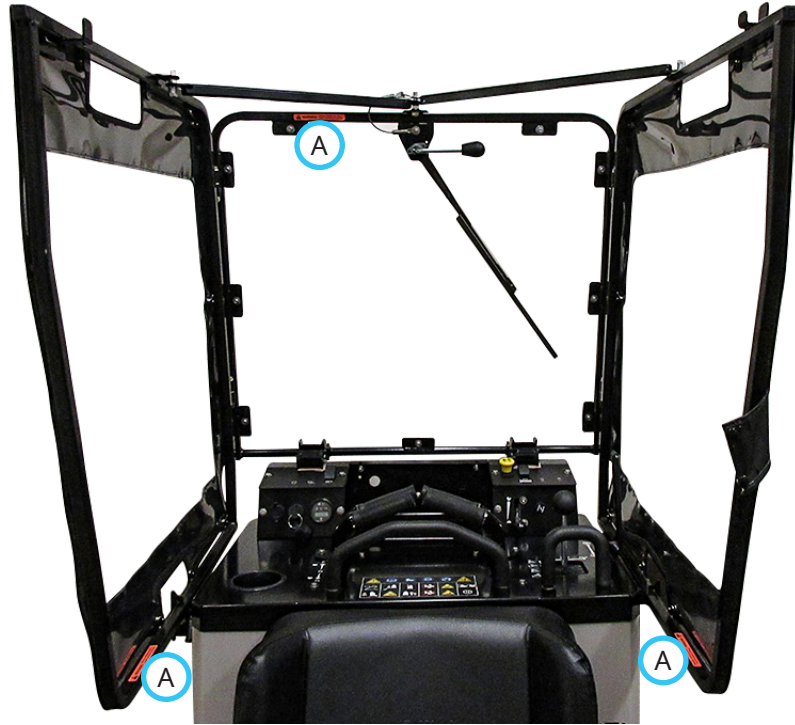
SAFETY

Safety Decals

The following safety decals must be maintained on your NW310 windscreen.

Keep all safety decals legible. Remove all grease, dirt, and debris from 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 current safety decals are affixed to the replacement components.



A
00.0571  **WARNING** Remove windscreen from power unit before trailering!

Decal	Description	Part Number	Quantity
A	Warning, Remove Before Trailering	00.0571	3

SETUP

Setup Instructions for the Windscreen

Installation Time (estimated)

1 hour

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. Engage the parking brake, shut off the engine, and remove the ignition key.
3. Remove the two bolts (A) that secure the dash frame and rear tower cover to the rear post and discard the hardware.

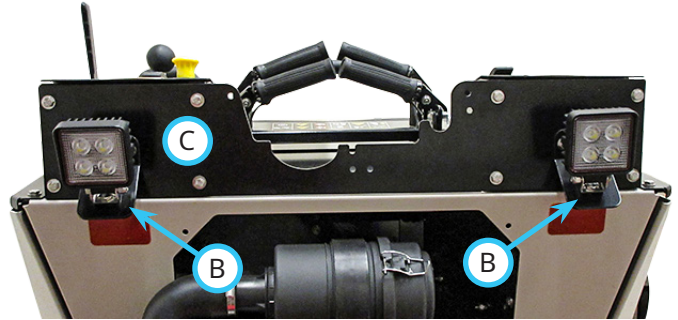


4. Install the left rear windscreen mount assembly (flange and latch are positioned toward the back of the power unit) using two 1/4 x 3/4 inch bolts, flat washers, and flange nuts. Do not tighten.

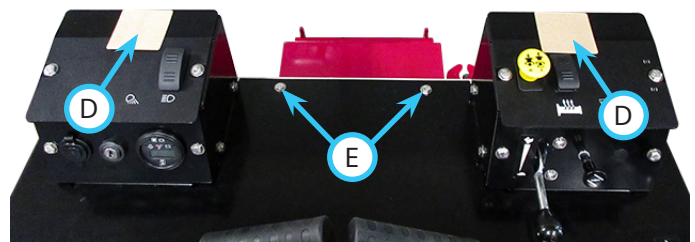


5. Adjust the rear post and door assembly until the door closes properly and aligns with the dash and front cover. Torque bolts to 8 Nm (67 in-lbs).
6. Repeat previous steps for installation of the right rear windscreen mount assembly.

7. Remove the top dash panels from the dash to access the nuts on the headlight mounts.
8. Remove the headlight and front strobe light (if equipped) mounts (B) from the front dash panel and discard the flange nuts. Disconnect the wire harness from the lights.



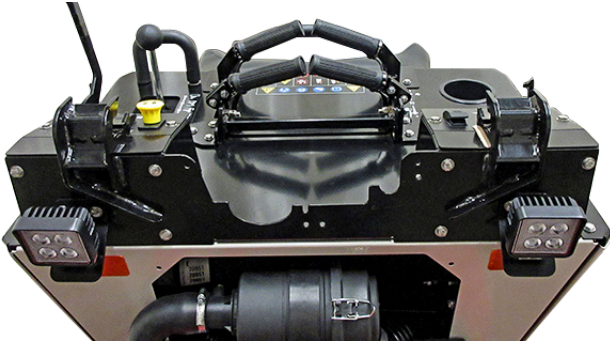
9. Reinstall the top dash panels and torque the bolts to 8 Nm (67 in-lbs).
10. If the power unit is equipped with a drop spreader or a brine system, remove the controls from the front dash panel.
11. Remove the front dash panel (C) from the power unit.
12. Hold the new front dash panel in place on the front of the dash and measure or mark the area on the top dash panels that will be covered by the windscreen mounting brackets.
13. Install the two clear wear resistant decals (D) onto the top dash panels at the location of the windscreen mounting brackets.



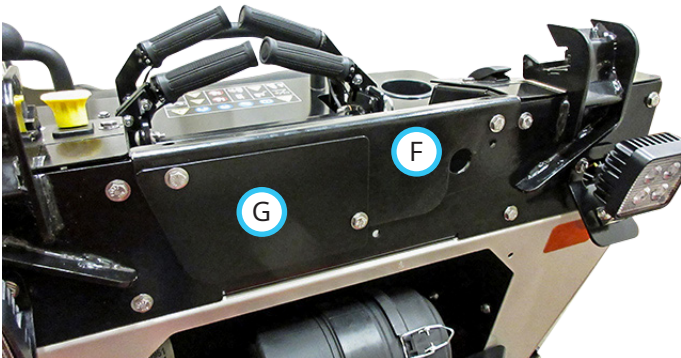
14. Remove the two bolts (E) from between the upper dash panels.

SETUP

15. Route the light wire harnesses through the cut-outs in the new front dash windscreen mount and install the front dash windscreen mount onto the front of the power unit using the original hardware at two places on the flange and eight places on the front of the top dash panels. Torque the bolts to 8 Nm (67 in-lbs).



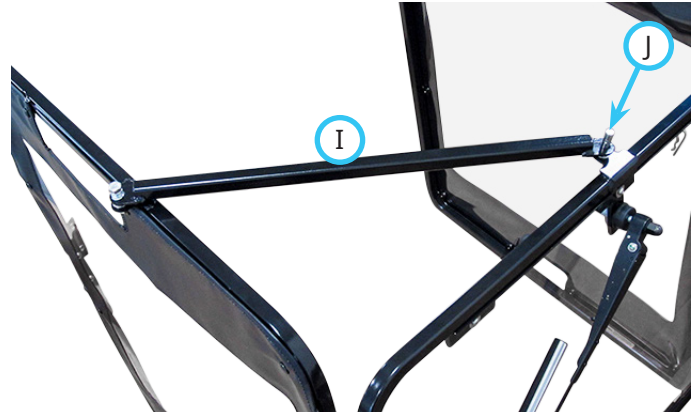
16. Connect the light wire harnesses to the lights and reinstall the lights onto the front dash windscreen mount. Torque the bolts to 8 Nm (67 in-lbs).
17. If the power unit is not equipped with a drop spreader or a brine system, install the front cover plate (F) and the front dash cover (G) using three 1/4 x 3/4 inch bolts, flat washers, and flange nuts. Torque the bolts to 8 Nm (67 in-lbs).



18. If the power unit is equipped with a drop spreader or a brine system, remove the pieces of rubber trim from the old panels and install on the new front dash windscreen mount and the front cover plate.
19. Reinstall the drop spreader and/or the brine system controls onto the front dash windscreen mount and install the new front cover plate (F). Torque the bolts to 8 Nm (67 in-lbs).
20. Remove the windscreen from the box, unsnap the retaining flap (H), and unfold the windscreen sides.



21. Lift the right crossbar (I) out of the retaining bracket and install onto the front pin (J).



22. Lift the left crossbar (K) out of the retaining bracket and install onto the front pin. Secure with the hairpin (L).

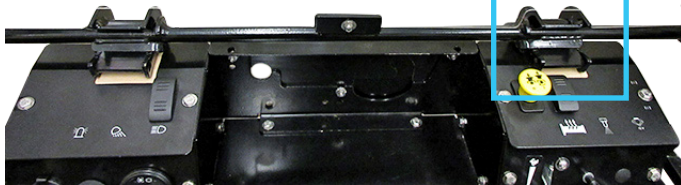
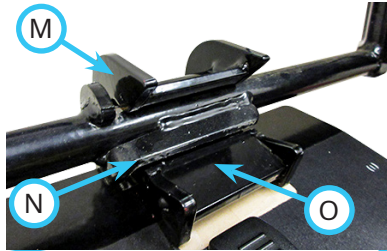


23. Fasten the right canvas retaining flap to the snaps on the right frame rear post.
24. Unfold the front of the left canvas and make sure the internal magnets hold it securely to the front frame.
25. If installing with two people (recommended method), lift the windscreen from the sides. If installing with a single person, stand inside the windscreen, lift with the upper frame hand hold locations, and step up onto the power unit's operator platform.

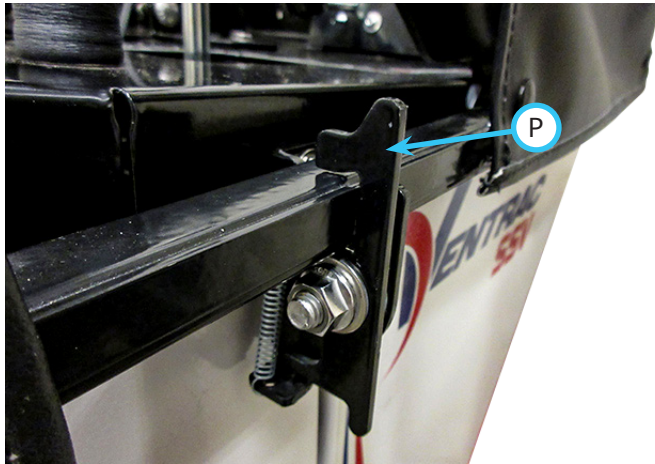


SETUP

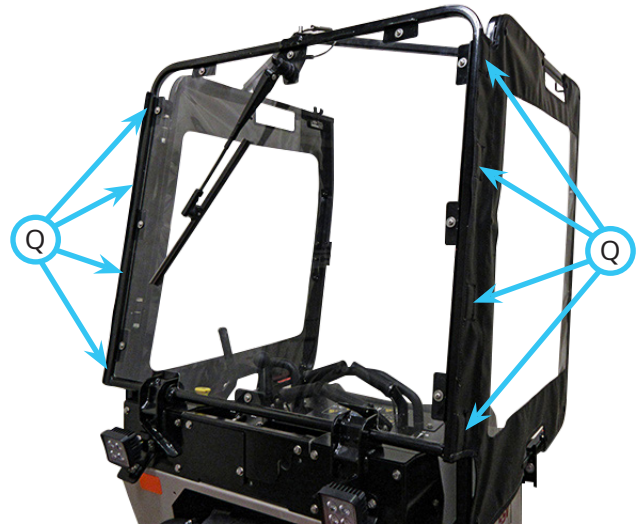
26. Lift the windscreen assembly over the power unit controls. Lower the front frame bar and insert the mounting points into the brackets (M) on the front dash mount. NOTE: the rear of the windscreen assembly must be raised until the key plates (N) on the front frame bar are inserted past the lock plates (O) on the front dash mount brackets.



27. Lower the rear of the windscreen assembly into the rear mounting brackets. Ensure the frame tubes are fully seated in the brackets and secured by the latches (P).



28. Check to ensure all snaps on the canvas sides are fastened and the front of the canvas sides are secured to the front frame sides with their internal magnets (Q).



Setup is complete.

GENERAL OPERATION

Daily Inspection

⚠ WARNING

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

1. Park the 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 windshield. Ensure the windshield is properly mounted to the power unit. Look for loose or missing hardware, damaged components, or signs of wear.
3. Check the wiper blade condition. Clear any ice or snow from the wiper before use. If the blade is frozen to the windshield, carefully loosen or thaw the blade.
4. Clear any ice or snow from the windshield before use. Do not operate if visibility is restricted.

Front Wiper Operation

- When the windshield is not in use, keep the wiper blade off the front windshield to prevent it from freezing to the windshield.
- If the front windshield is covered with snow or ice, clear the windshield before using the wiper.
- If the wiper blade is frozen to the windshield, carefully loosen or thaw the blade before attempting to use.

If the front windshield visibility is reduced by snow or slush, stop the power unit and rotate the wiper handle back and forth to clear the windshield. Move the wiper blade fully to the left or right after use.



SERVICE

⚠ WARNING

Always engage the parking brake, shut off the power unit engine, remove the ignition key, and ensure that all moving parts have come to a complete stop before inspecting the 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 windscreen, clean or wash the windscreen to remove dirt, snow, ice, and salt deposits.

ATTENTION

To maintain the finish of the windscreen, 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 and aluminum. Equipment that will experience repeated exposure to corrosive agents should be pretreated with a corrosion preventative.

Wiper Blade Replacement

The wiper blade should be replaced on a yearly basis, or sooner if the blade does not clean the windshield effectively.

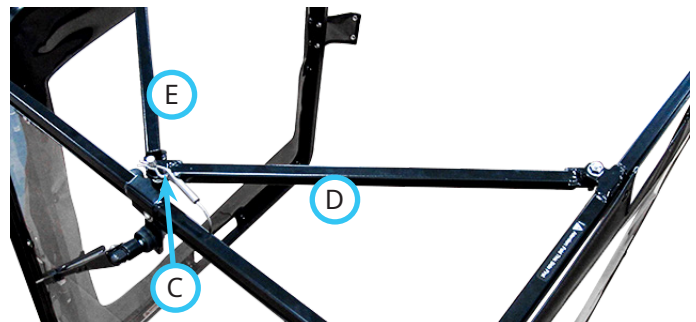
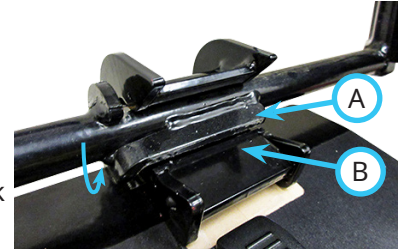
1. Remove the screw (A) and nut that fasten the wiper blade to the wiper arm.



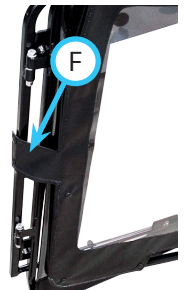
2. Install the new wiper blade and reinstall the screw and nut.

Removing and Folding the Windscreen

1. Park the power unit on a level surface.
2. Engage the parking brake, shut off the engine, and remove the ignition key.
3. Push in on the bottom of the rear latches to release the frame tubes and lift the rear of the windscreen assembly out of the rear brackets.
4. Lift up on the rear of the windscreen assembly to rotate the key plates (A) on the front frame bar up above the top edge of the lock plates (B) on the front dash mount.
5. Slide the windscreen assembly back out of the mounting points on the front dash mount.
6. Lift the windscreen assembly off the power unit and set it on the ground.
7. Remove the hairpin (C) from the front pin and lift the left crossbar (D) off the pin. Rotate the crossbar to the rear of the windscreen and place in its retaining bracket.



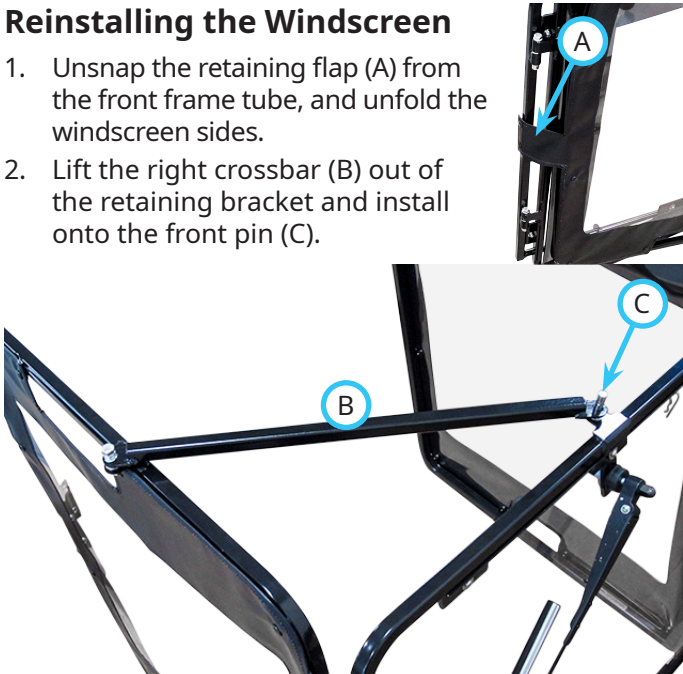
8. Lift the right crossbar (E) off the pin, rotate to the rear of the windscreen, and place in its retaining bracket.
9. Fold the left side of the windscreen in against the front windshield.
10. Unsnap the retaining flap on the right canvas from the rear post on the right frame.
11. Fold the right side of the windscreen in against the left side of the windscreen.
12. Fold back the front of the left canvas to expose the snaps on the left side of the front frame tube. Snap the retaining flap (F) onto these snaps to secure the windscreen in the folded position.



SERVICE

Reinstalling the Windscreen

1. Unsnap the retaining flap (A) from the front frame tube, and unfold the windscreen sides.
2. Lift the right crossbar (B) out of the retaining bracket and install onto the front pin (C).



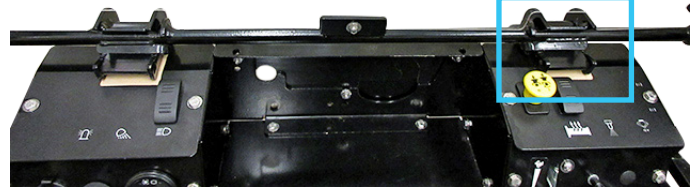
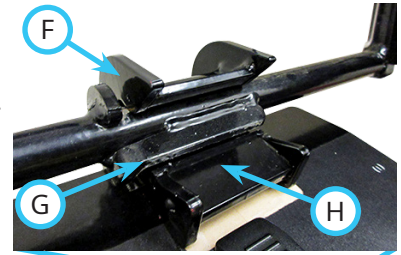
3. Lift the left crossbar (D) out of the retaining bracket and install onto the front pin. Secure with the hairpin (E).



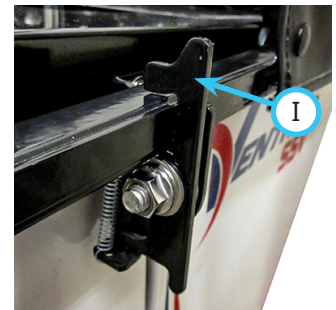
4. Fasten the right canvas retaining flap to the snaps on the right frame rear post.
5. Unfold the front of the left canvas and make sure the internal magnets hold it securely to the front frame.
6. If installing with two people (recommended method), lift the windscreen from the sides. If installing with a single person, stand inside the windscreen, lift with the upper frame hand hold locations, and step up onto the power unit's operator platform.



7. Lift the windscreen assembly over the power unit controls. Lower the front frame bar and insert the mounting points into the brackets (F) on the front dash mount. NOTE: the rear of the windscreen assembly must be raised until the key plates (G) on the front frame bar are inserted past the lock plates (H) on the front dash mount brackets.



8. Lower the rear of the windscreen assembly into the rear mounting brackets. Ensure the frame tubes are fully seated in the brackets and secured by the latches (I).
9. Check to ensure all snaps on the canvas sides are fastened and the front of the canvas sides are secured to the front frame sides with their internal magnets (J).



Installation is complete.

SPECIFICATIONS

Dimensions

Overall Height	104 cm (41 inches)
Height (installed on the power unit)	213 cm (84 inches)
Overall Length	101 cm (39-3/4 inches)
Overall Width	91 cm (36 inches)
Overall Weight (with mounting brackets)	22.7 kg (50 pounds)
Weight of the Windscreen Assembly	19.1 kg (42 pounds)

Features

- Sturdy tubular frame
- Lexan front windshield with abrasion resistant hard coat
- Canvas side panels with clear vinyl windows
- Manual windshield wiper
- Easily removed and folded for storage or transport