



Operator's Manual

Weather Cab

Model—Serial Range

KW454— Serial # 01001 and Up



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Intended Use

The Ventrac KW454 weather cab is intended to only be used with Ventrac 4500 and 4520 traction units by professional operators in commercial applications. Using this product for any purpose other than its intended use could prove dangerous to you and bystanders.

Read this information carefully to learn how to operate and maintain your product properly and to avoid injury and product damage. You are responsible for operating the product properly and safely.

Read and understand the traction unit *Operator's Manual* before operating the machine.

Product Description

The Ventrac KW454 weather cab is designed to provide the operator with protection and comfort in many weather conditions, while providing exceptional visibility. Standard features include a front windshield wiper, front and rear LED work lights, a large left-side entry door, emergency exit, removable door and side window, side mirrors, and a 4-point seat belt.

The KW454 weather cab is equipped with a heater. A heater installation kit must be purchased to connect the heater to the traction unit engine.

Note: The KW454 weather cab cannot be used with loaders, the collection vacuum system, or the mid weight bar kit. The KW454 weather cab should not be used with a ballpark groomer equipped with a groomer drag kit. When the groomer drag is folded up and the ballpark groomer is raised, the groomer drag handle may contact and break the rear window of the weather cab.

Getting Help

Visit www.Ventrac.com for product safety and operation training materials, accessory information, help finding a dealer, or to register your product.

Whenever you need service, genuine Ventrac parts, or additional information, contact an Authorized Service Dealer or Ventrac Customer Service and have the model and serial numbers of your product ready. These numbers are located on the serial plate on your product ①. Write the numbers in the space provided.



IMPORTANT

With your mobile device, you can scan the QR code on the serial number decal (if equipped) to access warranty, parts, and other product information.

Getting Help (continued)

Model Number:		Serial Number:	
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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 machine 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.

Manual Conventions

This manual identifies potential hazards and has safety messages identified by the safety-alert symbol, which signals a hazard that may cause serious injury or death if you do not follow the recommended precautions.



This manual uses 2 words to highlight information. **Important** calls attention to special mechanical information and **Note** emphasizes general information worthy of special attention.

Safety Alert Classifications

The safety-alert symbol shown in this manual and on the machine identifies important safety messages that you must follow to prevent accidents.

Safety-alert symbol appears above information that alerts you to unsafe actions or situations and is followed by the word **DANGER**, **WARNING**, or **CAUTION**.



Danger indicates an imminently hazardous situation which, if not avoided, *will* result in death or serious injury.



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.

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General Safety

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 machine and the attachments quickly in the event of an emergency.

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.
- Always wear a seat belt if the machine has a roll cage/bar installed and in the upright position.
- Ensure the attachment or accessory is locked or fastened securely to the machine before operating.
- Ensure that all bystanders are clear of the machine and the attachment before operating. Stop the machine if someone enters your work area.

Operation Safety (continued)

- 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.
- 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.
- If equipped with a high/low range feature, never shift between high and low range while on a slope. Always move the machine to level ground and engage the parking brake before shifting range.
- 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 machine.
- 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.

Operation Safety (continued)

- Equipment can cause serious injury and/or death when improperly used. Before operating, know and understand the operation and safety of the machine 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.
- Machines, attachments, and accessories are not designed or intended for travel on public roadways. Never operate or travel on public roads or highways.
- 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.
- Only allow the operator on the machine. Keep riders off.
- Never allow riders on any attachment or accessory.

KW454 Safety

- The installation of the weather cab reduces the slope rating of the traction unit to a 10 degree maximum angle of operation.
- Do not operate if visibility is restricted due to snow or ice accumulations or due to fogging of the windows. Clear any ice or snow from the windows and windshield wiper and/or defrost the windows prior to operation.
- The weather cab door must be closed and latched during operation.
- Do not place any part of your body outside of the cab (through the windows, door, or any other opening) during operation.
- Do not place your hands or fingers between traction unit's dash and cab front frame cross member. Pinch points may be created by the oscillation of the traction unit's front frame.
- Always wear the 4-point seat belt during operation. The seat belt must be adjusted to fit individual operators.
- Do not operate without the headrest cushion in place.
- The weather cab is equipped with an emergency exit (the right window). Learn to use the emergency exit prior to operating the traction unit with the cab. Refer to the [Right Window / Emergency Exit Handle, page 4–3](#) section of this manual for instructions on using the emergency exit.
- The traction unit's steering cylinder must be installed in the outer position when equipped with a weather cab. Damage to the traction unit and/or the weather cab will occur if the steering cylinder is installed in the center or inner positions. Refer to the **SETUP** section for steering cylinder mounting instructions.
- Do not exceed 30 amp draw to the weather cab and additional accessories.

Maintenance Safety

- 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, adjusting, or repairing.
- If the machine, attachment, or accessory requires repairs or adjustments not instructed in the operator's manual, the machine, attachment, or accessory must be taken to an authorized Ventrac dealer for service.
- Never perform maintenance on the machine 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.

Safety and Instructional Decals



Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or missing.

Decal Part: 00.0364



G546383

- ① Pinch points—Moving parts can crush or cut

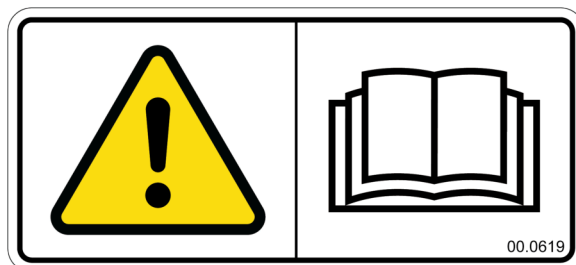
Decal Part: 00.0457



G496279

- ① Warning—Explosion/fire hazard.
- ② Keep away from fire, sparks, and pilot lights when refueling or storing machine and fuel.
- ③ Smoking is prohibited.
- ④ Use unleaded gasoline only with an ethanol content of 10 percent or less.

Decal Part: 00.0619



G546379

- ① Warning—Read *Operator's Manual*.

Decal Part: 00.0637



① Warning—Explosion/fire hazard.

② Keep away from fire, sparks, and pilot lights when refueling or storing machine and fuel.

③ Smoking is prohibited.

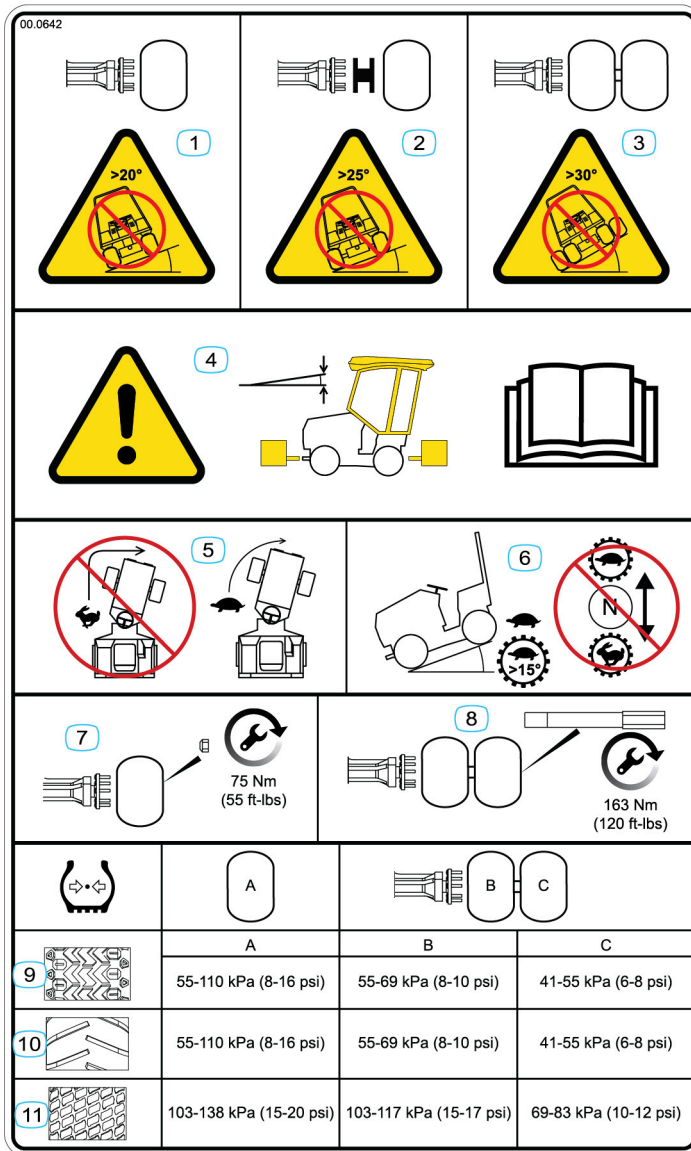
④ Use ultra low sulphur diesel fuel only.

Decal Part: 00.0639



① Pinching or crushing hazard—foot. Stay away from moving parts.

Decal Part: 00.0642



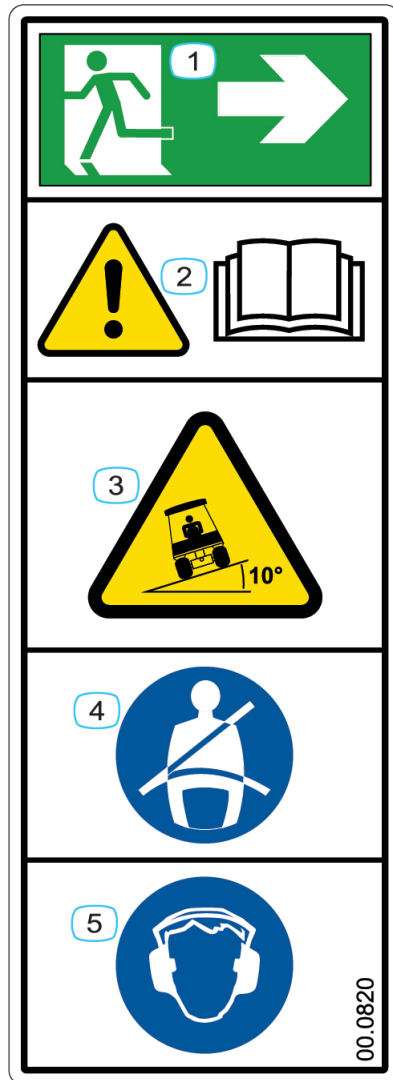
pressure range indicated for single wheels and the inner and outer dual wheels.

Decal Part: 00.0815



- 1 Lift Point.

Decal Part: 00.0820



G555822

① Emergency exit (right window).

② Read the *operator's manual*.

③ 10 \degree maximum angle of operation.

④ Always wear the 4–point seat belt during operation.

⑤ Wear certified hearing protection.

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WARNING



Engage the parking brake, shut off the traction unit engine, and remove the ignition key. Ensure that all moving parts have come to a complete stop before beginning installation.

Always disconnect the negative battery cable from the battery when working with electrical components.

Wear safety glasses during the installation of the weather cab.

Wear hearing protection when using air or power tools.

Place wheel chocks in front and back of the wheels to prevent the traction unit from moving during installation of the weather cab.

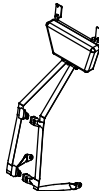
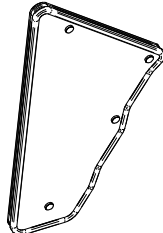
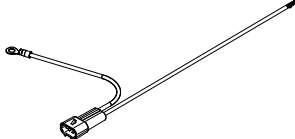
Unless specified otherwise, use the bolt torque specifications listed below for all bolts using during the installation of the weather cab.

Bolt Torque Specifications		
Bolt Size	Torque (Metric)	Torque (English)
1/4–20	11 N·m	100 in-lb
5/16–18	24 N·m	210 in-lb
3/8–16	42 N·m	31 ft-lb
7/16–14	68 N·m	50 ft-lb
1/2–13	102 N·m	75 ft-lb

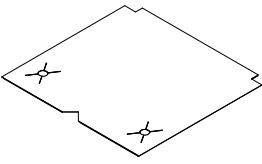
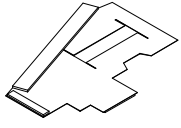
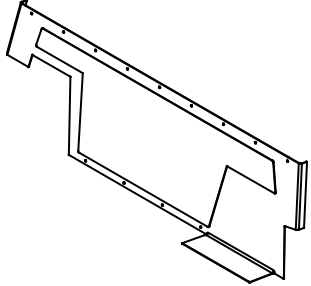
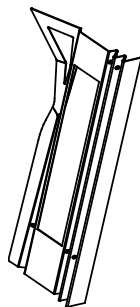
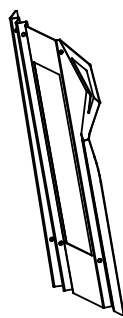
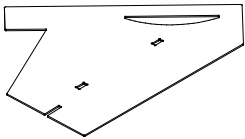
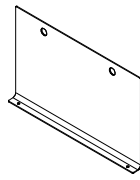
Identification of Parts

1. Carefully remove the windows and box from the crate.
2. Open the box and use the list below to ensure there are no missing parts before beginning the cab setup.

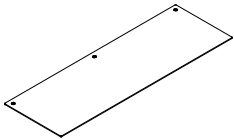
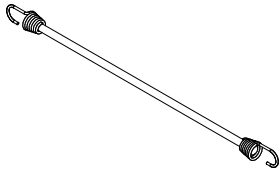
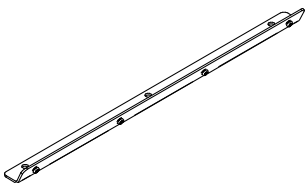
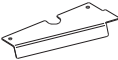
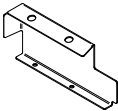
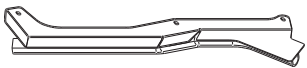
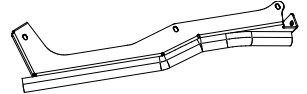
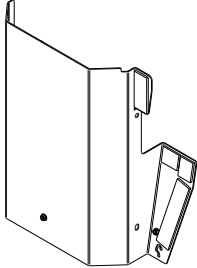
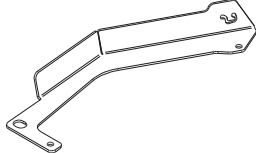
Loose Parts

Part Number	Description	Image	Quantity
—	Mount, Seat Belt Upper (with 4-Point Seat Belt and Cushion)		1
—	Window, Lower (with seal and hardware)		2
00.0457	Decal, Gasoline Safety		1
00.0637	Decal, Diesel Safety		1
11.0053	U-Bolt, 3/8-16 2–1/16" ID SQ Bend		6
30.0445	Breaker, Circuit 30 Amp Mini		1
32.0243	Harness, Wire KW452/Canopy Fan		1

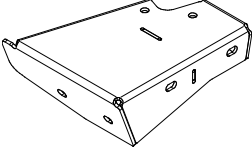
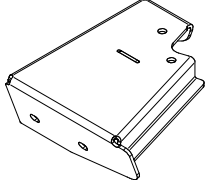
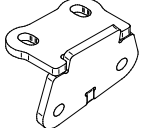
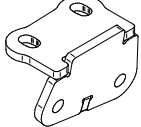
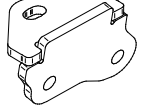
Loose Parts (continued)

Part Number	Description	Image	Quantity
44.0327	Canvas, Rear Frame		1
44.0328	Canvas, Column Left		1
44.0446	Window, Lower Rear Canvas		1
44.0447	Canvas, Pleated Left		1
44.0448	Canvas, Pleated Right		1
44.0449	Canvas, Column Right		1
44.0451	Canvas, Foot Platform		2

Loose Parts (continued)

Part Number	Description	Image	Quantity
44.0452	Canvas, Pump Cover Skirt		1
47.0425	Bungee, Bellows Support		8
64.1734	Mount, Window Rear Lower (with snaps)		1
64.1736	Bracket, Window Rear Right (with Velcro)		1
64.2031	Bracket, Window Rear Top (with Velcro)		1
KW-1084	Support, Door Window Lower		1
KW-1089	Bracket, Window Right Lower (with Weatherstrip)		1
KW-1125	Bracket, Window Door Lower (with Weatherstrip)		1
KW-1128	Cover, Pump w/Flanges (with Decals and Velcro)		1
KW-1129	Mount, Canvas Column Right		1
KW-1130	Mount, Canvas Column Left		1

Loose Parts (continued)

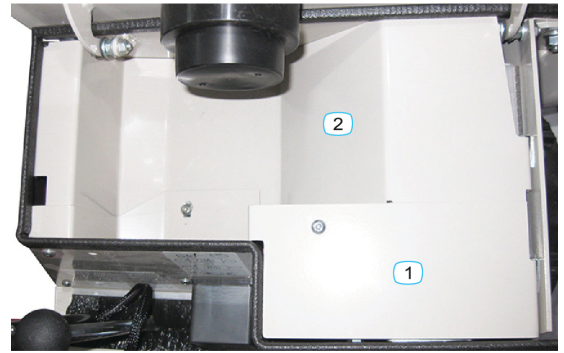
Part Number	Description	Image	Quantity
KW-6011	Support, Cab Front LH		1
KW-6013	Support, Cab Front RH		1
KW-6015	Mount, Cab Front Left		1
KW-6016	Mount, Cab Front Right		1
KW-6017	Mount, Upper Left Rollbar		1
KW-6018	Mount, Lower Left Rollbar		1
KW-6019	Mount, Upper Right Rollbar		1
KW-6020	Mount, Lower Right Rollbar		1
06.0065-1IN	Velcro, Loop 1" Black x 1"	—	1
06.0065-2.5IN	Velcro, Loop 1" Black x 2-1/2"	—	2
06.0065-4IN	Velcro, Loop 1" Black x 4"	—	2
06.0065-8IN	Velcro, Loop 1" Black x 8"	—	3
06.0071-2IN	Velcro, Loop 1/2" Black x 2"	—	1
06.0071-5IN	Velcro, Loop 1/2" Black x 5"	—	1
06.0071-16IN	Velcro, Loop 1/2" Black x 16"	—	1

Loose Parts (continued)

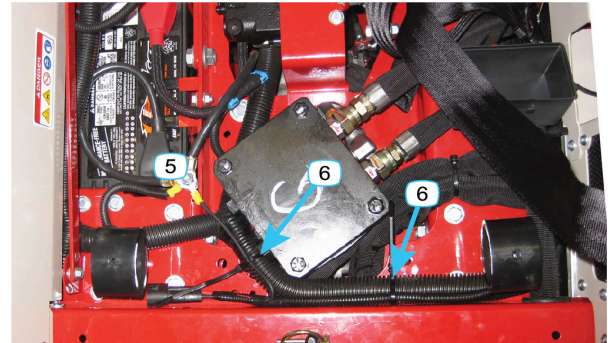
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30.0037	Tyton Tie, #50 .18 x 8 Black	—	4
30.0325	Terminal, MP280 Female 14-12GA	—	1
30.0327	Seal, Connector 14-12GA	—	1
90.0710	Bolt, 7/16-14 x 1 1/4	—	2
95.04	Washer, Flat 1/4 SAE	—	6
95.07	Washer, Flat 7/16 SAE	—	8
97.0406	Bolt, Carriage 1/4-20 UNC x 3/4	—	4
97.0506	Bolt, Carriage 5/16-18 x 3/4	—	4
97.0512	Bolt, Carriage 5/16-18 x 1 1/2	—	4
99.0404	Bolt, 1/4-20 UNC x 1/2 BSCS	—	2
99.0406	Bolt, 1/4-20 UNC x 3/4 BSCS	—	6
99.A07	Locknut, Stover 7/16-14 UNC	—	2
99.E0082	Nut, Locking Flange 3/8-16	—	12
99.SF04	Nut, SRF 1/4-20 UNC	—	14
99.SF0405–1	Bolt, SMF 1/4-20 UNC x 5/8	—	4
99.SF05	Nut, SRF 5/16-18 UNC	—	20
99.SF0506–1	Bolt, SMF 5/16-18 UNC x 3/4	—	12
99.SF06	Nut, SRF 3/8-16 UNC	—	6
99.SF0608–1	Bolt, SMF 3/8-16 UNC x 1	—	6

4500 Traction Unit Wire Harness Installation

1. Disconnect the negative battery cable from the traction unit's battery.
2. Open the toolbox lid and remove the left ^① and right ^② toolbox liner panels.
3. The fuse panel terminal on the wire harness included with the KW454 weather cab cannot be installed in a 4500 fuse panel. You will need to cut the existing terminal off the wire harness and install the included terminal ^③ and seal ^④. Alternately, you can purchase a wire harness (part number 32.0129) with the correct fuse panel terminal.

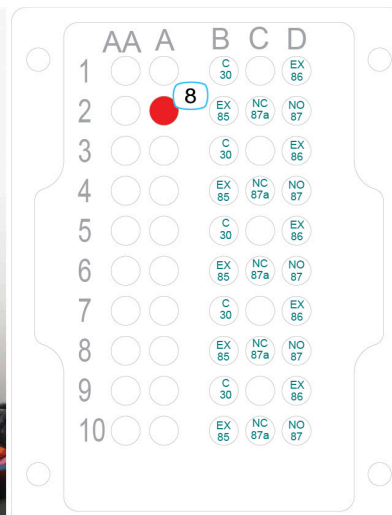
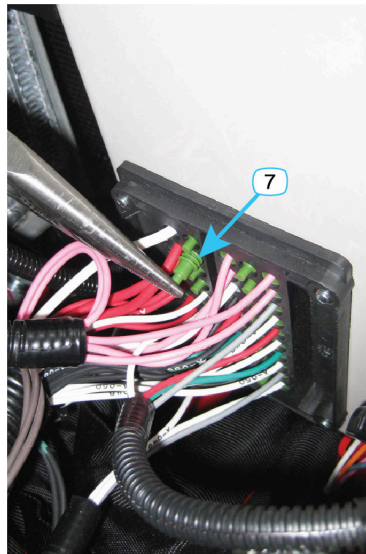


G563747



G563759

4. Place the wire harness in the traction unit's seat box area. Connect the ring terminal to the ground stud ^⑤. Route the wire with the terminal along the main harness into the right fender. Use zip ties ^⑥ to fasten the wires to the main harness.
5. Use a needle nose pliers to remove the green plug ^⑦ from position A2 ^⑧ (red highlighted position) on the rear fuse panel.



Back View Of Rear Fuse Block

G563782



6. Install the terminal into position A2 in the fuse panel.

Note: The terminal can only be installed one way. Orient the terminal with the hole pointing up and insert into the fuse panel. The terminal needs to snap into place. If necessary, use a needle nose pliers to push the terminal in, being careful not to damage the wire insulation. Double check the connection by tugging gently on the wire with your hand.

7. Install the 30 amp circuit breaker into position F02 in the rear fuse panel and install the fuse panel cover.

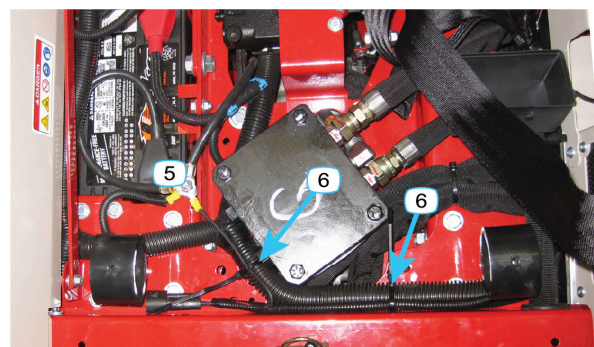
Note: If the weather cab is being equipped with a hazard and turn light kit, the traction unit will need to have a conversion wire harness installed to connect to the cab wire harness. Purchase the 32.0253 conversion harness and refer to [Installing a Hazard and Turn Light Conversion Harness, page 3–12](#) for installation instructions.

4520 Traction Unit (Serial # 01001–02172) Wire Harness Installation

1. Disconnect the negative battery cable from the traction unit's battery.
2. Remove the control panel^① from the top of the right fender.
3. The fuse panel terminal on the wire harness included with the KW454 weather cab cannot be installed in a 4500 fuse panel. You will need to cut the existing terminal off the wire harness and install the included terminal^③ and seal^④. Alternately, you can purchase a wire harness (part number 32.0129) with the correct fuse panel terminal.

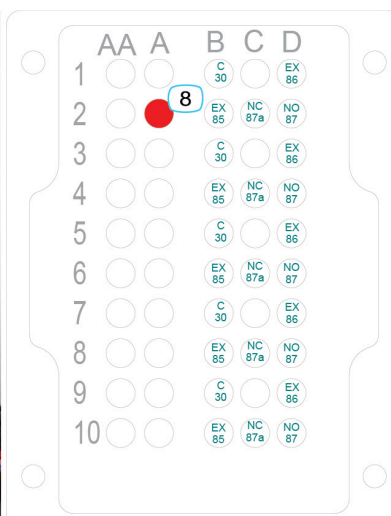
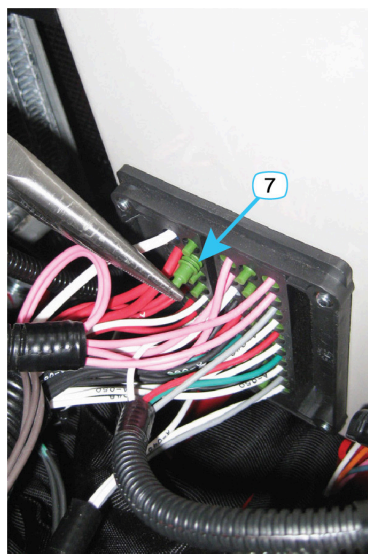


G563813



G563759

4. Place the wire harness in the traction unit's seat box area. Connect the ring terminal to the ground stud^⑤. Route the wire with the terminal along the main harness into the right fender. Use zip ties^⑥ to fasten the wires to the main harness.
5. Use a needle nose pliers to remove the green plug^⑦ from position A2^⑧ (red highlighted position) on the rear fuse panel.



Back View Of Rear Fuse Block

G563782



6. Install the terminal into position A2 in the fuse panel.

Note: The terminal can only be installed one way. Orient the terminal with the hole pointing up and insert into the fuse panel. The terminal needs to snap into place. If necessary, use a needle nose pliers to push the terminal in, being careful not to damage the wire insulation. Double check the connection by tugging gently on the wire with your hand.

7. Install the 30 amp circuit breaker into position F02 in the rear fuse panel and install the fuse panel cover.

Note: If the weather cab is being equipped with a hazard and turn light kit, the traction unit will need to have a conversion wire harness installed to connect to the cab wire harness. Purchase the 32.0253 conversion harness and refer to [Installing a Hazard and Turn Light Conversion Harness, page 3–12](#) for installation instructions.

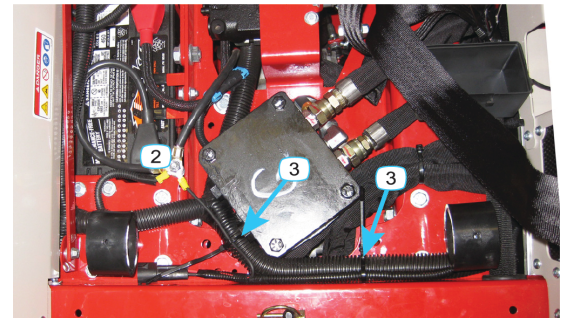
4520 Traction Unit (Serial # 02173–) Wire Harness Installation

1. Disconnect the negative battery cable from the traction unit's battery.
2. Remove the control panel^① from the top of the right fender.

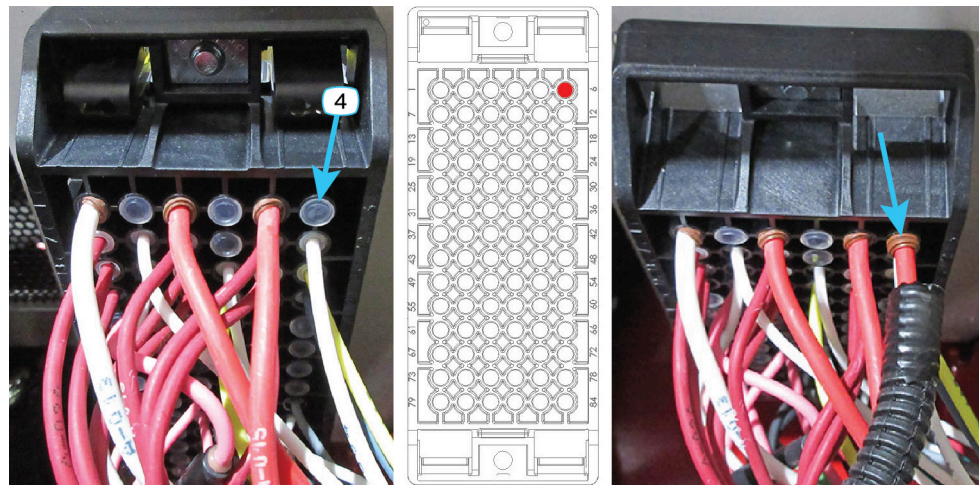


G563813

3. Place the wire harness in the traction unit's seat box area. Connect the ring terminal to the ground stud^②. Route the wire with the terminal along the main harness into the right fender. Use zip ties^③ to fasten the wires to the main harness.
4. Inside the right fender, use a small flat screwdriver to pry the seal^④ from position #6 (highlighted red) in the rear fuse panel.
5. Orient the terminal so the slot in the face is running side-to-side and install the terminal into position #6 in the fuse panel. The terminal needs to snap in place. Double check the connection by tugging gently on the wire with your hand.



G563816



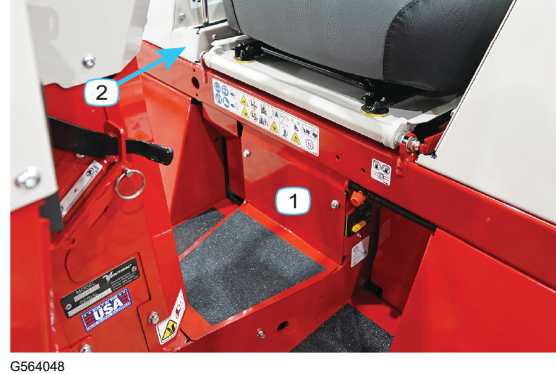
G563818

Note: If the weather cab is being equipped with a hazard and turn light kit, 4520 traction units (serial # 02173–05664) will need to have a conversion wire harness installed to connect to the cab wire harness. Purchase the 32.0253 conversion harness and refer to [Installing a Hazard and Turn Light Conversion Harness](#), page 3–12 for installation instructions.

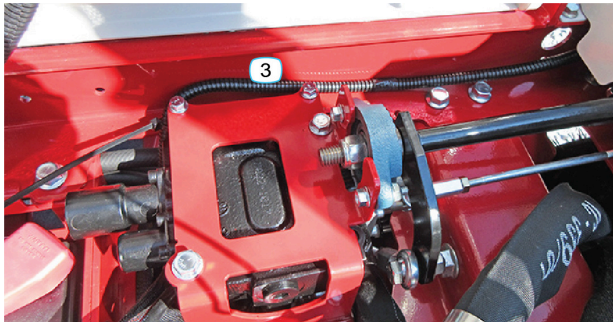
Installing a Hazard and Turn Light Conversion Harness

4500 and 4520 (serial # 01001–05664) traction units require the installation of a 32.0253 conversion harness if the weather cab is equipped with a hazard and turn light kit. This harness must be purchased separately from the hazard and turn light kit.

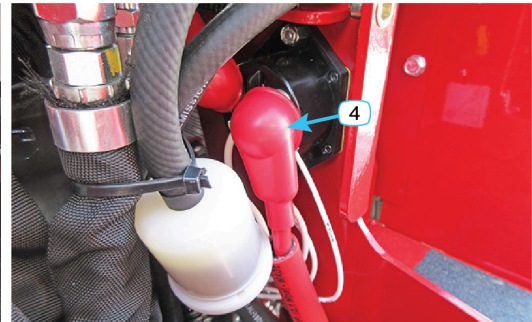
1. Remove the lower rear frame cover^① and the SDLA pivot cover^②.
2. Inside the right fender, locate the 4-pin Weatherpack connector with two yellow wires, a green wire, and a black wire. Remove the cap and connect to the conversion harness.
3. Locate the 4-pin Weatherpack connector with a yellow wire, a green wire, a black wire, and a white wire. Remove the cap and connect to the conversion harness.
4. Route the conversion harness leg^③ with the ring terminal out through the front of the right fender area and across the front of the seat box to the battery disconnect switch.



G564048



G564060



5. Remove the cable with the terminal cover^④ from the front post on the battery disconnect switch.
6. Install the ring terminal from the conversion harness onto the front post of the battery disconnect switch, install the cable and nut, and place the terminal cover over the post and terminals.
7. Install the lower rear frame cover and the SDLA pivot cover.
8. Use zip ties to secure the harness away from moving parts.

Preparing the Traction Unit For Weather Cab Installation



WARNING



Place wheel chocks in front and back of the wheels to prevent the traction unit from moving during setup of the traction unit and the weather cab.

1. Park the traction unit on a level surface that is accessible with a hoist. Engage the parking brake, shut off the engine, and remove the ignition key.
2. Place wheel chocks in front and back of the wheels to prevent the traction unit from moving.
3. Disconnect the negative battery cable from the traction unit's battery.
4. If the traction unit is equipped with roll bar mounted accessories, they must be removed prior to installation of the weather cab. When removing light kits, if the weather cab will be removed during warm weather and the light kits will be reinstalled, the wire harnesses can be left in place. If removing light kits permanently, the wire harnesses will need to be removed, along with the switches and the fuses. You will need to remove the harness connector using a metri-pack terminal removal in order to remove the harnesses from the roll bar. When removing switches, plug the holes in the traction unit's dash panel or control panel with a plastic switch plug (part number 05.0131).
5. If the traction unit is equipped with a mid weight kit or a loader cross bar, remove these items from the traction unit.
6. Move the traction unit's steering cylinder to the outer position^① and torque the bolt to 230 N·m (170 ft-lb).



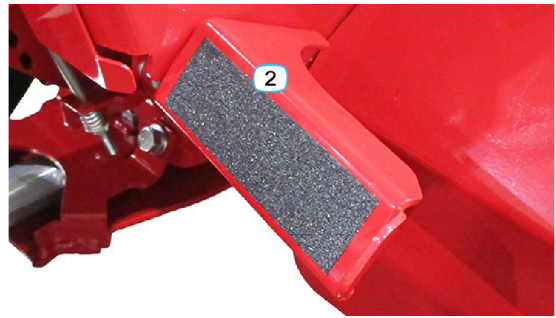
G562707

IMPORTANT

If the traction unit's steering cylinder is mounted in the inner or center positions, it will cause damage to the traction unit or the weather cab when turning.

Mount the steering cylinder in the outer position.

7. Remove the left and right foot pegs^② from the traction unit's front frame. Reinstall the bolts into the frame holes.
8. Install the left^③ and right^④ front cab mounts onto the lower rear frame and the rear fenders using eight 5/16 x 3/4 inch flange bolts and flange nuts.



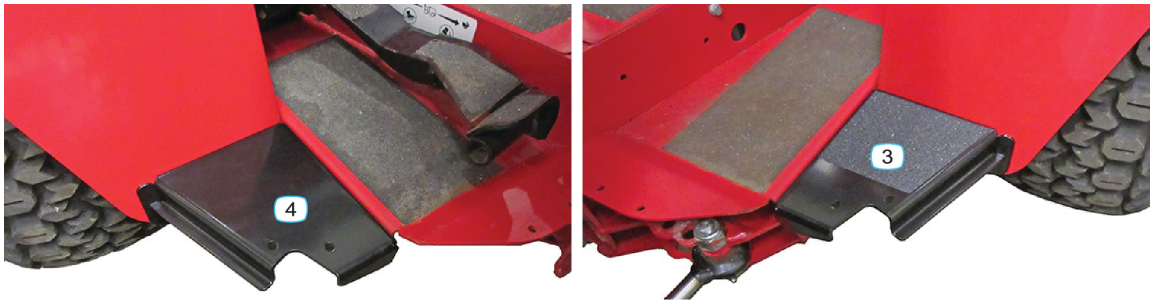
G562710

⚠
WARNING
⚠

Using a drill without proper eye protection may allow debris to enter the eye, causing injury.

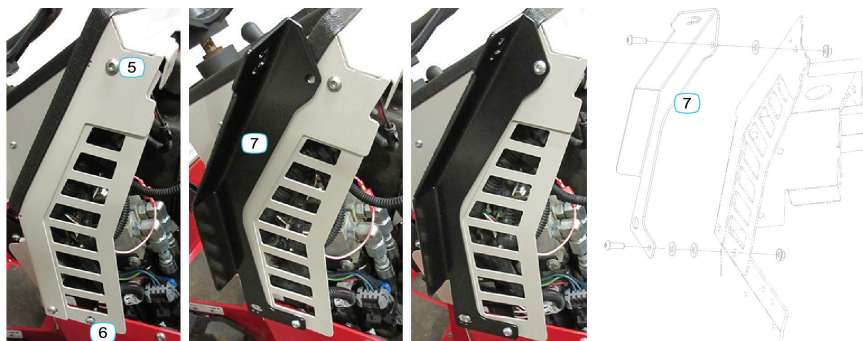
When drilling, always wear eye protection.

Note: If the rear fenders do not have mounting holes for the cab mounts, install the cab mounts to the upper set of holes in the lower rear frame and mark the hole locations on the rear fenders. Drill 9 mm (11/32 inch) holes, remove any burrs, and use red touch up paint on the exposed metal.



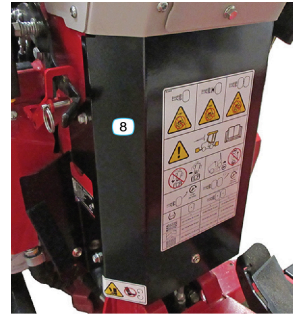
G562712

9. Loosen the upper bolt^⑤ and remove the lower bolt^⑥ from the right dash access panel.
10. Insert a 1/4 x 3/4 inch button head bolt through the lower mounting hole of the right canvas column mount^⑦. Place two 1/4 inch washers onto the bolt and loosely install through the right dash access panel and front frame. Secure with a 1/4 inch flange nut.



G563038

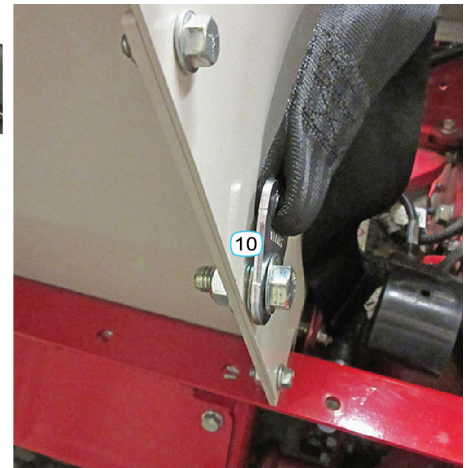
11. Remove the upper bolt from the dash access panel.
12. Place a 1/4 inch washer between the right canvas column mount and the dash panel. Insert a 1/4 x 3/4 inch button head bolt through the upper hole in the canvas column mount, the washer, the dash panel, and the dash access panel. Secure with a 1/4 inch flange nut and tighten both the upper and lower bolts.
13. Repeat steps 9 through 12 to install the left canvas column cover.
14. Remove the pump cover from the traction unit and install the new pump cover⁸ with flanges.
15. Remove the existing seat belt from the traction unit.
16. Install the seat belt upper mount⁹ onto the back of the upper roll bar. Install two U-bolts from the front of the roll bar through the holes in the seat belt upper mount. Center the seat belt upper mount on the roll bar and secure with four 3/8 inch locking flange nuts.



G563062



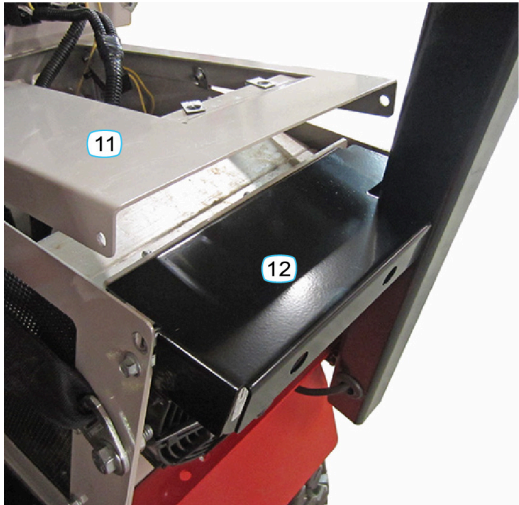
G564473



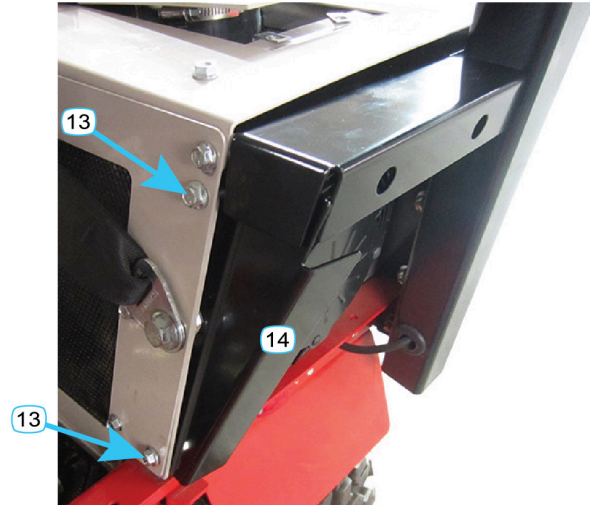
17. Ensure there are no twists in the seat belt and fasten the lower seat belt anchors¹⁰ to the traction unit's rear fender panels at the original seat belt mounting locations. Install a 7/16 x 1-1/4 inch bolt with a flat washer through each seat belt anchor. Add two 7/16 inch flat washers between each seat belt anchor and the rear fender panels. Secure to the rear fender panels with 7/16 inch flat washers and 7/16 inch lock nuts.

18. Remove the seven bolts that fasten the top of the right fender cover⁽¹¹⁾ to the inner and outer right fender panels.
19. Install the rear window top bracket⁽¹²⁾ onto the rear panel above the cooler fan using two 1/4 x 3/4 inch button head bolts. Lift up slightly on the rear of the fender cover⁽¹¹⁾ to allow access to install two 1/4 inch flange nuts onto the bolts.

Note: If installing on a 4500 traction unit, install the bolts through the rear window top bracket and into the U-nuts on the inner toolbox liner panels.



G564509



20. Install the seven bolts to secure the top of the right fender cover to the inner and outer right fender panels.
21. Remove the two bolts⁽¹³⁾ from the inside of the right rear fender panel and discard the locking flange nuts. Place the rear window right bracket⁽¹⁴⁾ on the back side of the fender panel and fasten with the original bolts and new 1/4 inch locking flange nuts.
22. Remove the seat latch pin bolt and seat latch pin⁽¹⁵⁾ from the rear flange of the seat box.



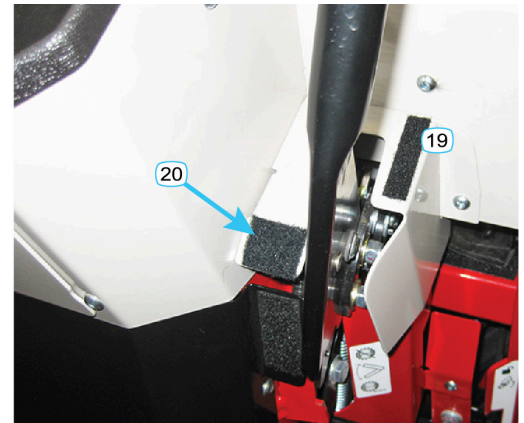
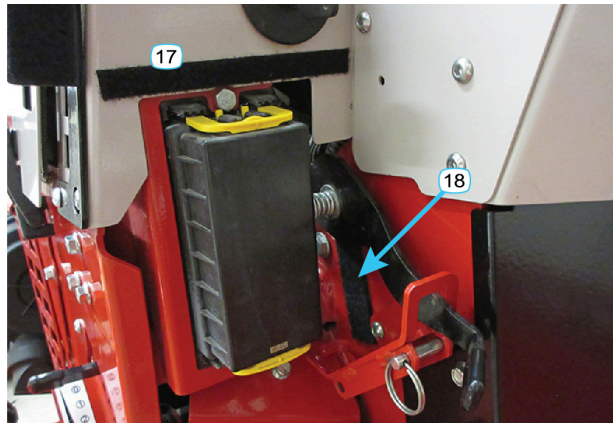
G564607

23. Install the lower rear window mount⁽¹⁶⁾ onto the underside of the rear flange of the seat box with the flange with the snaps angled up. Fasten the mount to the seat box flange using two 1/4 x 1/2 inch button head bolts down through the outer holes in the seat box flange and the lower rear window mount and secure with flange nuts. Install the seat latch pin and bolt in the center hole.

IMPORTANT

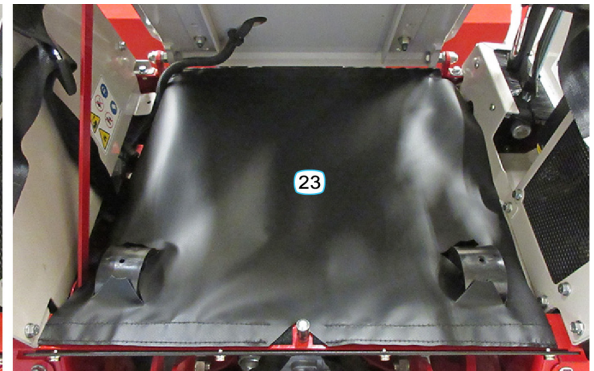
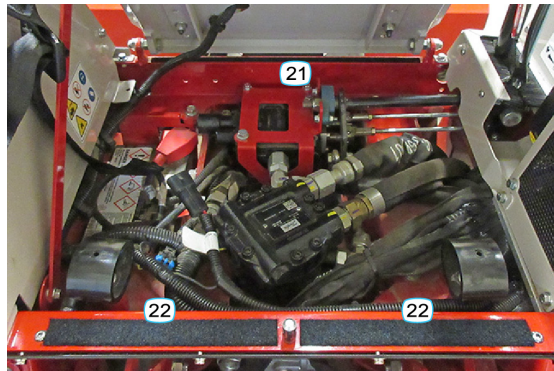
Prior to installing the Velcro strips, clean the area thoroughly with alcohol wipes or other cleaning wipes that will not leave residue.

24. Install a 5 inch length of 1/2 inch Velcro loop⁽¹⁷⁾ on the left dash panel above the front fuse panel.
25. Install a 2-1/2 inch length of 1 inch Velcro loop⁽¹⁸⁾ to the front frame between the high/low shift lever and the high/low shift lock bracket.



G564627

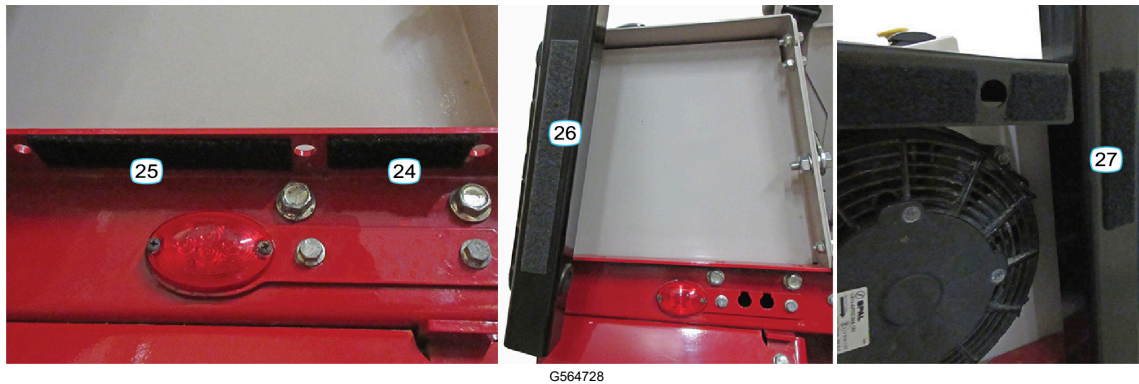
26. Install a 2 inch length of 1/2 inch Velcro loop⁽¹⁹⁾ on the parking brake cover in front of the brake lever.
27. Install a 1 inch length of 1 inch Velcro loop⁽²⁰⁾ on the parking brake cover between the brake lever and the center dash panel.
28. Install a 16 inch length of 1/2 inch Velcro loop⁽²¹⁾ onto the front flange of the seat box frame.
29. Install two 8 inch lengths of 1 inch Velcro loop⁽²²⁾ onto the rear flange of the seat box frame.



G564688

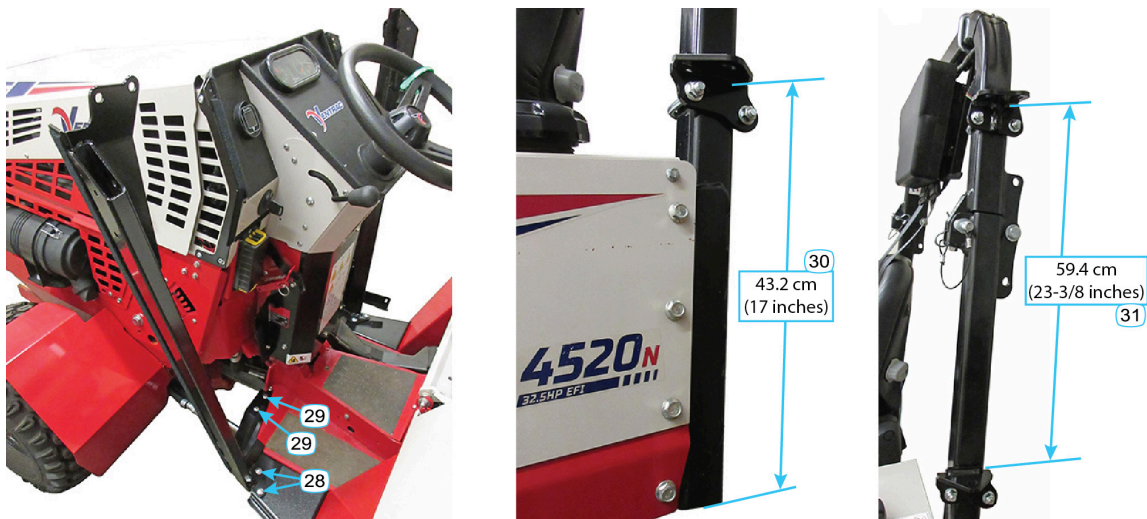
30. Install the rear frame canvas⁽²³⁾ onto the Velcro at the front of the seat box. Stretch the canvas across the frame and fasten onto the Velcro at the rear of the seat box. Make sure the seat bumpers stick up through the cutouts in the canvas.

31. Install a 2-1/2 inch length⁽²⁴⁾ and a 4 inch length⁽²⁵⁾ of 1 inch Velcro loop on the underside of the rear flange of the seat box behind the left fender.



G564728

32. Install an eight inch length of 1 inch Velcro loop⁽²⁶⁾ onto the back of the left roll bar with the lower edge even with the rear flange of the seat box.
33. Install a four inch length of 1 inch Velcro loop⁽²⁷⁾ onto the back of the right roll bar with the top edge just below the top of the rear window top bracket.
34. Install the left and right front cab supports onto the foot platform on the traction unit using two 5/16 x 3/4 inch carriage bolts⁽²⁸⁾ and flange nuts and two 1/4 x 3/4 inch carriage bolts⁽²⁹⁾ and flange nuts for each support. Tighten the hardware only until finger tight.



G564835

35. Install the lower left roll bar mount onto the left roll bar using U-bolts and 3/8 inch locking flange nuts. The bottom of the cab mounting plate should be parallel to the top of the seat box panel and approximately 43.2 cm (17 inches)⁽³⁰⁾ up from the bottom of the roll bar. Tighten the flange nuts only until the mount does not move freely on the roll bar.
36. Install the upper left roll bar mount onto the left roll bar using U-bolts and 3/8 inch locking flange nuts. The bottom of the cab mounting plate should be parallel to the top of the seat box panel and approximately 59.4 cm (23-3/8 inches)⁽³¹⁾ up from the top of the cab mounting plate on the lower left roll bar mount. Tighten the flange nuts only until the mount does not move freely on the roll bar.
37. Repeat the previous two steps to install the lower and upper right roll bar mounts.

Installing the KW454 Weather Cab On a Traction Unit



WARNING



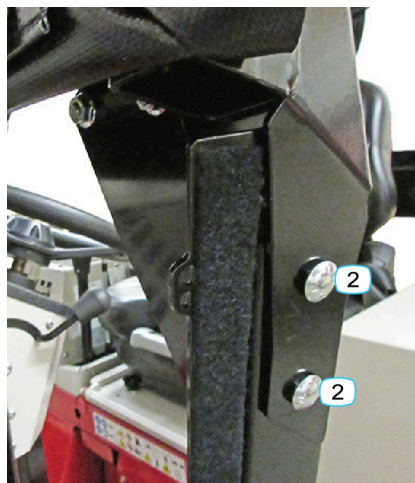
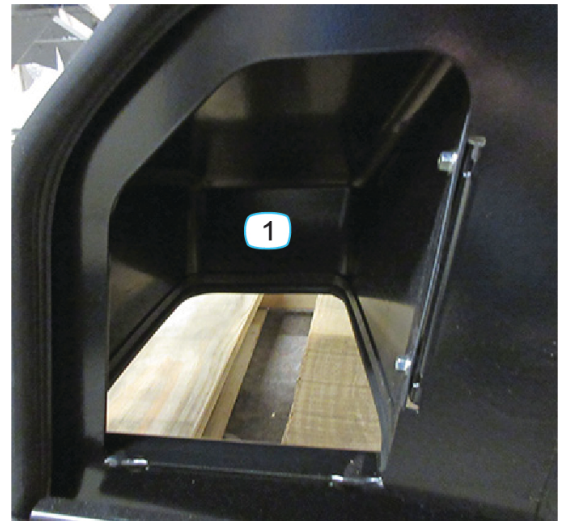
To lift the weather cab, use a Ventrac lift sling (part number 47.0381) attached to the four corner lift points or remove the cab roof and attach a lifting device with a minimum rating of 226 kg (500 pounds) to the two lift points inside the cab roof.

Do not walk or stand beneath the weather cab when it is raised off the ground.

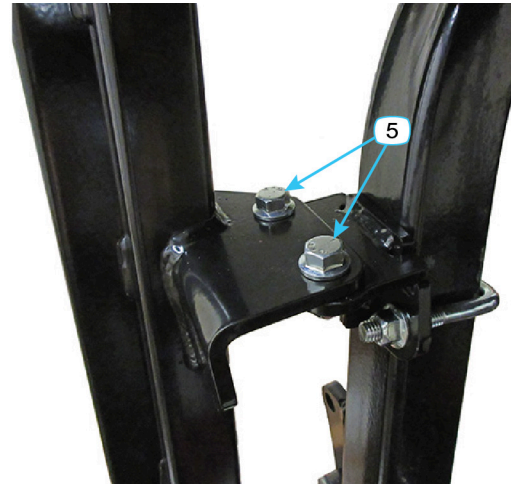
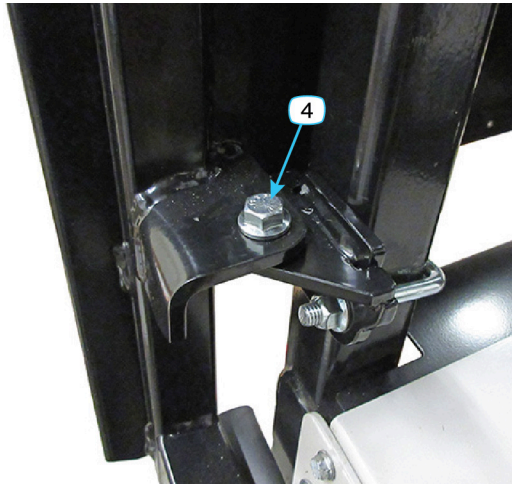
1. Remove the fuel tank cover^① from the weather cab.
2. Remove the hardware securing the cab to the crate brackets.

Note: the crate brackets can be left attached to the crate skid and used to store the weather cab if it is removed from the traction unit.

3. Attach a lifting device to the lift points of the cab. Lift the cab and position it over the traction unit.
4. Lower the cab onto the traction unit and align the front of the cab with the front cab supports. The cab support tubes will be located on the inside of the frame mounting flange and on the front face of the cab's inner frame flange. Insert two 5/16 x 1-1/2 inch carriage bolts^② through each of the front cab mount and the front cab support tubes and secure loosely with flange nuts. Insert four 5/16 x 3/4 inch flange bolts^③ through the cab frame flange and the front cab supports and secure loosely with flange nuts.



5. Adjust the rear of the cab to align the cab mounts with the upper and lower roll bar mounts. Insert a 3/8 x 1 inch flange bolt⁽⁴⁾ down through each lower cab mount and the lower roll bar mounts and secure loosely with a flange nut.



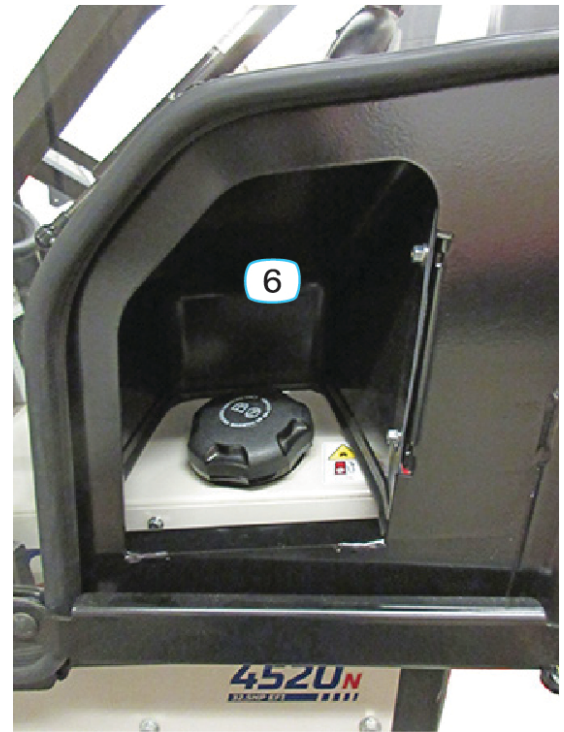
G565134

6. Insert two 3/8 x 1 inch flange bolts⁽⁵⁾ down through each upper cab mount and the upper roll bar mounts and secure loosely with flange nuts.
7. Adjust the rear of the cab until the cab is level front-to-back and side-to-side. If necessary, loosen the nuts on the roll bar mount U-bolts to allow the roll bar mounts to be repositioned.

Note: Ensure the cab is parallel with the traction unit frame and the D foam weatherstrip on the lower left and right sides is sealed up against the fenders on the traction unit.

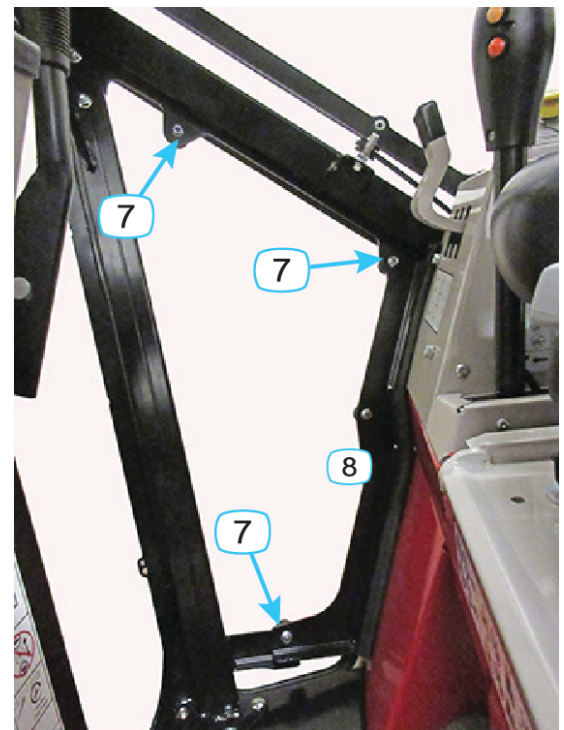
8. Once the cab is level, tighten the nuts on the four U-bolts that fasten the roll bar mounts to the roll bar.
9. Tighten the six 3/8 x 1 inch flange bolts that fasten the rear cab mounts to the upper and lower roll bar mounts.
10. Tighten the nuts on the four carriage bolts that fasten the front cab mounts to the front cab support tubes.
11. Tighten the four flange bolts that fasten the front cab frame flange to the front cab supports.
12. Tighten the nuts on the eight carriage bolts that fasten the left and right front cab supports to the foot platform.

13. Install the fuel tank cover^⑥ by sliding the flanges down inside the mounting flanges on the cab. Press the fuel tank cover down far enough to seal against the top of the fuel tank. Install two 1/4 x 5/8 inch flange bolts through the front cab mounting flange and the front of the fuel tank cover and fasten with 1/4 inch flange nuts. Install two 1/4 x 5/8 inch flange bolts through the rear holes in the fuel tank cover and into the cage nuts in the rear flange.



G565187

14. Install the right lower window and the right lower window bracket. Remove the nuts from the four step bolts installed in the window, but do not remove the spacers. Insert the bolts into the three mounting tabs^⑦ on the cab frame. Install the right lower window bracket^⑧ onto the three rear step bolts and secure all four step bolts with 1/4 inch flange nuts. Tighten only until the rubber washers under the step bolt heads begin to bulge slightly.



G565192

15. Install the door window lower support⁽⁹⁾ onto the door frame latch bracket and fasten loosely with two 1/4 x 1/2 inch flange bolts and flange nuts⁽¹⁰⁾. Install the window door lower bracket⁽¹¹⁾ onto the tab⁽¹²⁾ on the door and the door window lower support and fasten loosely with two 1/4 x 1/2 inch flange bolts and flange nuts. Install the lower door window. Remove the nuts from the four step bolts installed in the window, but do not remove the spacers. Insert the bolts into the two mounting tabs on the door frame and the window door lower bracket and support. Secure all four step bolts⁽¹³⁾ only until the rubber washers under the step bolt heads begin to bulge slightly.



16. Tighten the two 1/4 inch flange bolts⁽¹⁴⁾ that fasten the window door lower bracket to the door frame and the door lower window support. Close the door and check the seal of the lower window. Move the bottom of the door lower window support in or out until the window seals properly. Tighten the two 1/4 inch flange bolts⁽¹⁰⁾ at the top of the door lower window support.

Note: The door latch can be adjusted if necessary. Refer to the [Adjusting the Door Latch, page 6–3](#) section.

17. Install the left column canvas⁽¹⁵⁾ onto the left side of the front frame column. Fasten the Velcro to the dash panel, the frame behind the high/low shift lever, and the flange on the pump cover.
18. Install the right column canvas⁽¹⁶⁾ onto the right side of the front frame column. Install the cutout over the neutral assist lever and fasten the Velcro to the parking brake cover and the flange on the pump cover.



19. Lay out the pleated canvas panels with the Velcro on the triangular windows facing down. Identify the left⁽¹⁷⁾ and right⁽¹⁸⁾ canvas panels.

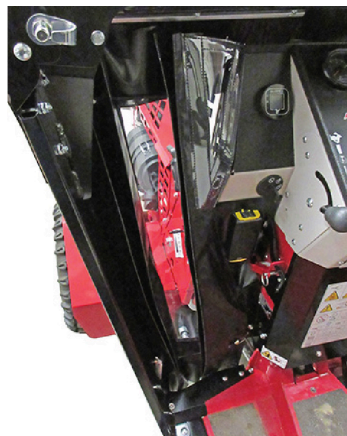


20. Insert a bellows support bungee through both the top and bottom sets of holes in the left and right canvas panels. For the top set of holes, use the lower of the two holes in the outer pleat.
21. Hook the top left pleated panel support bungee⁽¹⁹⁾ to the left front cab support and the left canvas column mount. Hook the bottom left pleated panel support bungee⁽²⁰⁾ to the left front cab support and the left flange of the pump cover.



G565347

22. Fasten the outer Velcro strip to the Velcro strip on the front cab support. Fasten the inner Velcro strips to the Velcro on the left canvas column mount, the pump cover, and the left column canvas.



G565392

23. Repeat to install the right pleated canvas panel.
24. Hook a bellows support bungee into the top position on the left canvas column mount. Route the bungee through the two holes in the left side flap⁽²¹⁾ of the windshield canvas, then through the upper hole in the outer pleat of the pleated

canvas panel and hook into the upper hole on the front cab support. Repeat to fasten the right side of the windshield canvas.

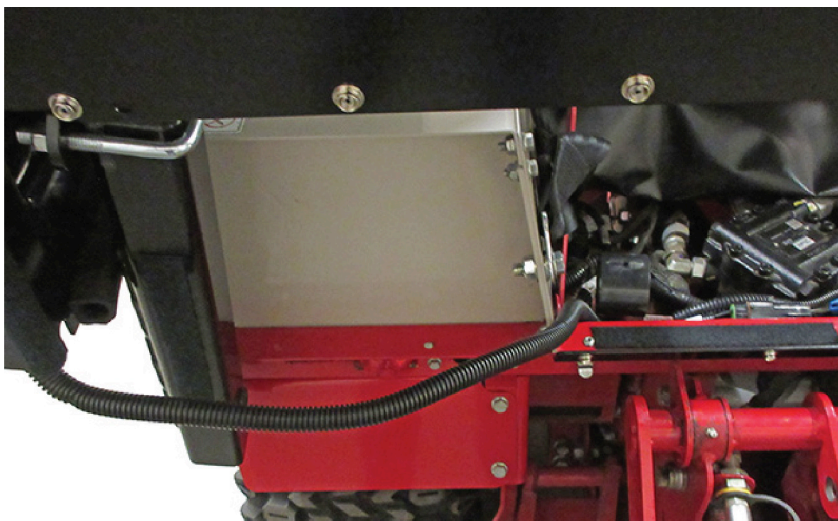
25. Install the foot platform canvas panels⁽²²⁾ by connecting to the snaps and the Velcro on the bottom flange of the front cab support. Insert a bellows support bungee through the holes in the top of the foot platform canvas and connect to the pump cover and the front cab supports.



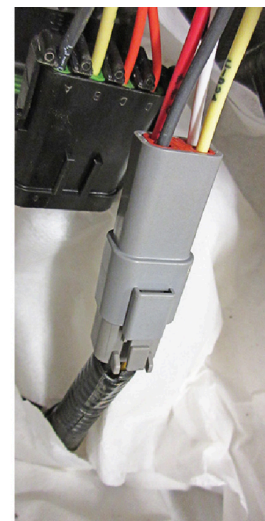
G565406

26. Install the pump cover skirt canvas⁽²³⁾ by connecting to the three snaps on the pump cover.
27. Pull back the rear frame canvas under the seat and route the weather cab's wire harness into the seat box area. Connect the 2 position Metri-pack connector to the connector installed during the traction unit preparation. Route the 4 position Deutsch connector into the right fender area following the main wire harness. Connect to the traction unit wire harness or the conversion harness used for 4500 and 4520 serial # 01001-05664 traction units.

Note: If the cab will not use a hazard and turn light kit, a conversion harness is not required and the 4 position Deutsch connector can be left unconnected.

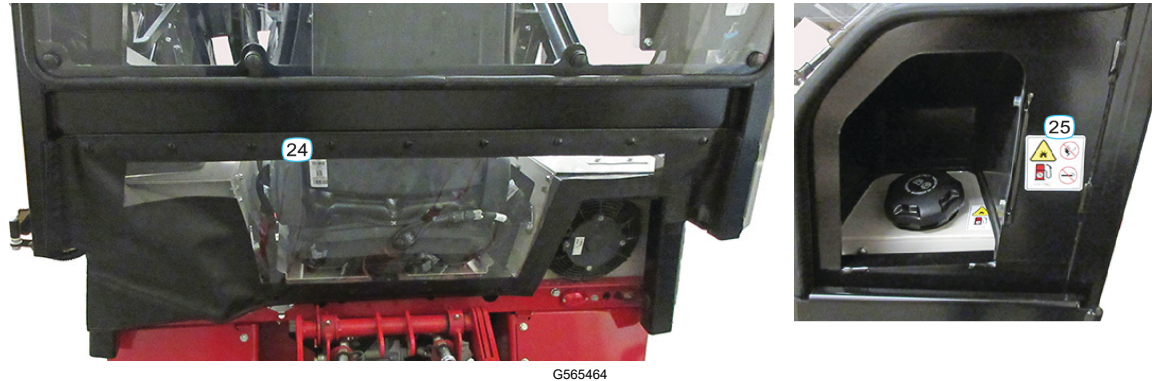


G565431



28. Install the control panel (4520 traction unit) or the tool box liner panels (4500 traction unit) on the right fender.

29. Install the 30 amp circuit breaker into the cab or cab / canopy slot in the rear fuse panel. Refer to the traction unit's quick reference chart (under the hood) or the operator's manual for the correct position for your traction unit.
30. Snap the lower rear canvas window⁽²⁴⁾ into place on the cab frame and the lower rear window mount. Attach the Velcro strips on the window to the Velcro on the rear window brackets, the cab frame, the left and right roll bars, and the underside of the seat box flange behind the left fender.



31. Determine whether the traction unit is equipped with a gasoline or diesel engine and install the appropriate gasoline or diesel safety decal⁽²⁵⁾ onto the cab frame next to the fuel tank cover.
32. If the cab roof was removed when lifting the cab, install the roof onto the top of the cab.
33. Rotate the mirror arms out from the cab and adjust the mirror position as desired.
34. Check the traction unit's tire pressure and adjust if necessary. Refer to [Traction Unit Tire Pressure, page 6–7](#) for recommended tire pressures with the weather cab installed.
35. Connect the negative battery cable to the battery.

Installation is complete.



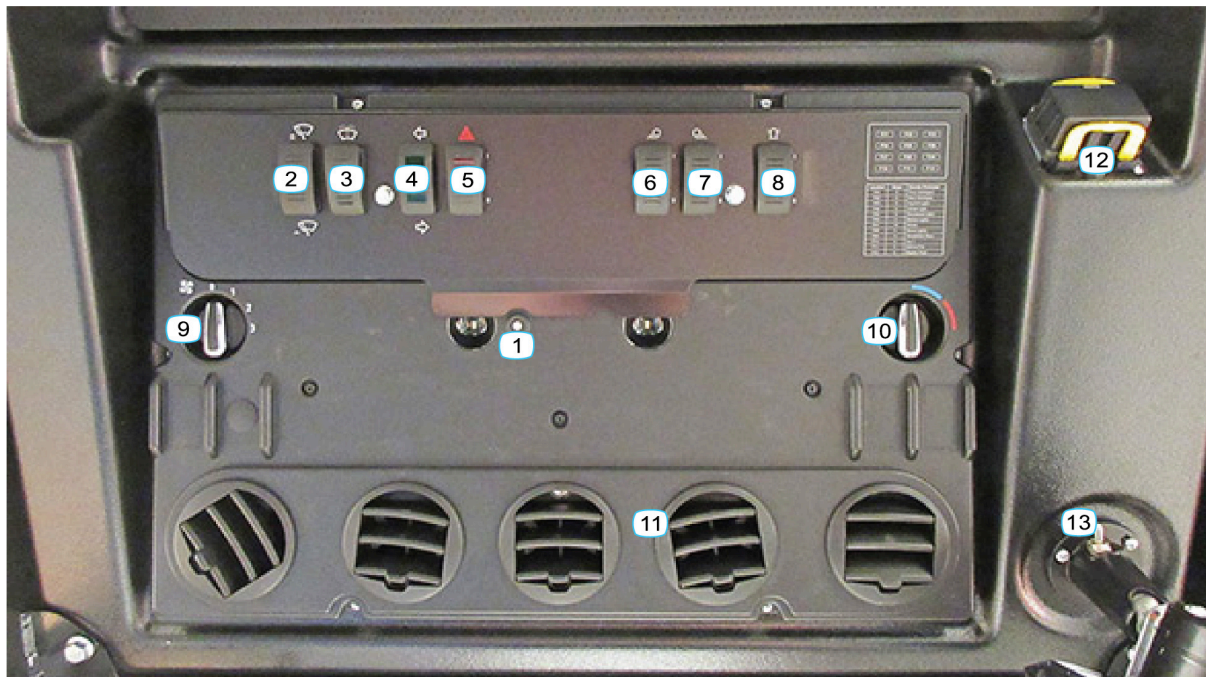
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Operational Controls

Note: Refer to the traction unit *Operator's Manual* for traction unit operational control locations.



G565686

1. Interior Light Switch
2. Windshield Wiper Switch
3. Windshield Washer Switch*
4. Turn Signal Switch*
5. Hazard Light Switch*
6. Front Work Light Switch
7. Rear Work Light Switch
8. Strobe Light Switch*
9. Heater Fan Speed Dial
10. Heater Temperature Dial
11. Heater Vents
12. Fuse Panel
13. Defrost Fan Switch*

*Optional accessory controls.

Outer Door Handle and Lock

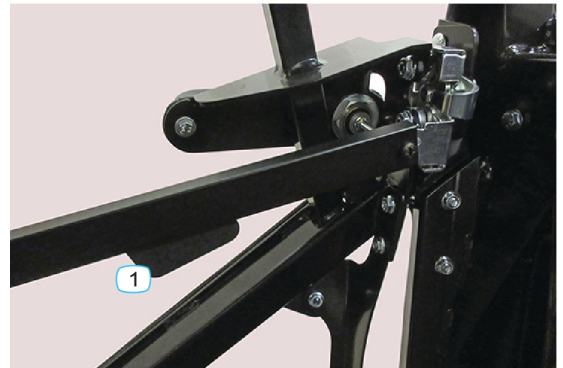
Push the button^① on the outer door handle to unlatch the door. The outer door handle can be locked and unlocked with a key. Turn the key clockwise to lock the door and counterclockwise to unlock the door.



G565654

Inner Door Handle

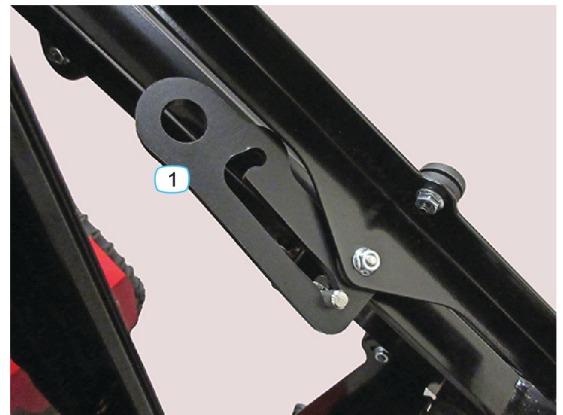
Squeeze the latch^① on the inner door handle to unlatch the door. The door cannot be locked from the inside.



G565667

Right Window / Emergency Exit Handle

The right window of the weather cab can be opened and latched in place. Raise the window latch handle^①, push out on the window, and lower the handle to latch in place. When the window is open, the latch handle can be pulled away from and removed from the latch pin. This allows the right window to be opened fully for use as an emergency exit.



G565670

Front Windshield Latch Handle

The front windshield can be opened and latched in place. Lift up on the window latches^①, push out on the bottom of the windshield, and lower the handle to latch in place.



G565683

Interior Light Switch

Press the light switch to turn on the interior lights in the cab headliner.
Press the light switch again to turn off the interior lights.

Windshield Wiper Switch

	Windshield Wiper High Speed
	Windshield Wiper Low Speed

The weather cab is equipped with a two speed windshield wiper motor. Press the bottom portion of the switch to activate the low speed wiper function. Press the top portion of the switch to activate the high speed wiper function. Return the switch to the middle position to turn off the windshield wipers.

Windshield Washer Switch

	Windshield Washer
---	-------------------

The weather cab can be equipped with an optional windshield washer kit for cleaning the front windshield. Press the top portion of the switch to activate the windshield washer. The switch returns to the OFF position when the top of the switch is released.

Turn Signal Switch

	Left Turn Signal
	Right Turn Signal

The weather cab can be equipped with optional turn signals. Press the top portion of the switch to activate the left turn signal. Press the bottom portion of the switch to activate the right turn signal. Return the switch to the middle position to turn off the turn signals.

Hazard Light Switch

	Hazard Light
---	--------------

Press the top portion of the switch to activate the four-way hazard flashing lights. Press the bottom portion of the switch to shut off the hazard flashing lights.

Front Work Light Switch

	Front Work Light
---	------------------

Press the top portion of the front work light switch to turn on the front work lights. Press the bottom portion of the switch to turn off the front work lights.

Rear Work Light Switch

	Rear Work Light
---	-----------------

Press the top portion of the rear work light switch to turn on the rear work lights. Press the bottom portion of the switch to turn off the rear work lights.

Strobe Light Switch

	Strobe Light
---	--------------

Press the top portion of the strobe light switch to activate the strobe light. Press the bottom portion of the switch to shut off the strobe light.

The strobe light has six different flasher modes. Refer to the [Changing the Strobe Light Flasher Mode, page 6–6](#) section for instructions on changing the strobe light flasher mode.

Heater Fan Speed Dial

Rotate the heater fan speed switch to select the desired fan speed position — Off (0), Low (1), Medium (2), or High (3).

Heater Temperature Dial

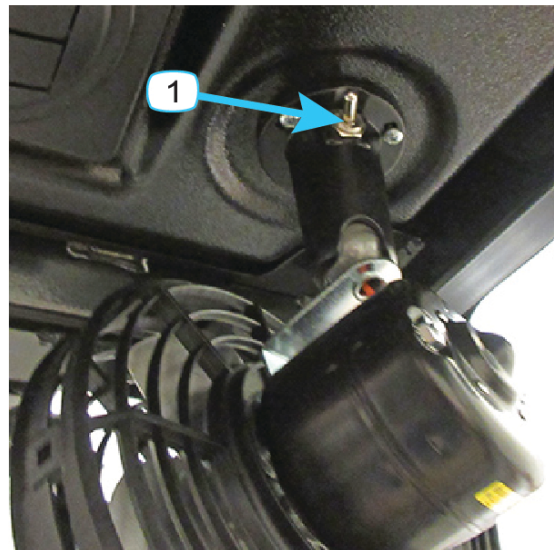
Rotate the dial to control the air temperature from the heater. Turn the dial toward the red area for warmer air or toward the blue area for cooler air.

Heater Vents

The heater vents can be rotated and the louvers angled to direct airflow in the desired direction.

Defrost Fan

The weather cab can be equipped with an optional defrost fan. Toggle the defrost fan switch ① to the left to turn the fan on low. Toggle the defrost fan switch to the right to turn the fan on high. Return the switch to the middle position to turn the fan off. The fan can be rotated to direct the airflow in the desired direction.



G565625



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Before Operation

Daily Inspection



WARNING



Always engage the parking brake, shut off the traction 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. Failure to do so can result in injury or death.

1. Park the machine on a level surface, engage the parking brake, shut off the engine, and remove the ignition key.
2. Inspect the traction unit in accordance with the traction unit *Operator's Manual*.
3. Perform a visual inspection of the weather cab. Ensure the cab is properly mounted to the traction unit. Check for loose or missing hardware, damaged components, or signs of wear.
4. Inspect the lights and light functions to ensure they are working properly.
5. Inspect the window and door seals for cracks or tears.
6. Inspect the glass windows for chips or damage.
7. Inspect the heater hoses (if equipped) to ensure tight, leak free connections.

IMPORTANT

If the weather cab is equipped with a heater kit and the outside air temperature is 4° C (40° F) or above, the radiator baffle must be removed and replaced with the radiator screen.

8. Check the windshield wiper blade condition. Clear any ice or snow from the wiper blade before use. If the wiper blade is frozen to the windshield, carefully loosen or thaw the wiper blade.
9. Clear any ice or snow from the windows and/or defrost the windows before operation. Do not operate if visibility is restricted.

Using the 4–Point Seat Belt

1. Fasten the lower buckle^① of the seat belt and adjust the lap belt until snug but not tight. Tighten by pulling on the ends of the lap belt straps. Tighten both sides evenly so the buckle remains centered on the operator. Loosen by pulling up on the edge of the seat belt strap lock facing away from the buckle
2. Fasten the upper buckle^② of the seat belt and adjust the left and right shoulder belts. The shoulder belts should be loose enough to allow the operator to reach all dash controls, but should be snug at the point that the operator can reach all controls. Tighten the left and right shoulder belts^③ by pulling on the end of the straps. Loosen the shoulder belts by lifting up on the tab^④ on the seat belt strap lock.
3. Adjust the upper buckle location so the buckle catches the operator in the middle of the chest when the operator leans forward against the belt.



G566132

IMPORTANT

If the seat belt cannot be tightened or loosened far enough to properly fit the operator, the seat belt upper mount must be adjusted. Refer to the [Adjusting the Seat Belt Upper Mount, page 6–2](#) section for adjustment procedures.

During Operation

Strobe Light Break-away

The optional strobe light is mounted on a pivoting arm and is held in place by a spring. The strobe light must be rotated up during operation. If the strobe light or arm contacts an object, the spring releases the pivot arm to rotate either forward or backward away from the object. If the strobe light breaks away from contact with an object, stop operations, inspect the strobe light, and return the strobe light to the operating position when clearance allows.

The strobe light can be rotated to the back for low clearance areas, transport, or storage.

After Operation

Cleaning the Weather Cab

IMPORTANT

To maintain the finish of the weather cab and accessories, 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.

For best results and performance, clean or wash the weather cab and traction unit after each use to remove dirt, gravel, and salt deposits. Remove any ice and snow accumulations from the cab roof, windows, and accessories.



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IMPORTANT

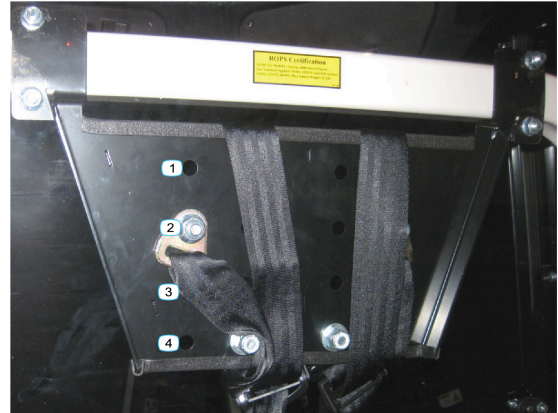
If any component requires replacement, use only original Ventrac replacement parts.

Service and Adjustments

Adjusting the Seat Belt Upper Mount

The seat belt upper mount has four seat belt mounting positions. The seat belt is mounted in the second position at the factory.

1. If the seat belt cannot be tightened enough to properly secure the operator, move the seat belt anchors to the first position on the seat belt upper mount.
2. If the seat belt cannot be loosened enough to fit the operator, move the seat belt anchors to the third or fourth position on the upper seat belt mount.
3. Torque the seat belt anchor hardware to 102 N·m (75 ft-lb).

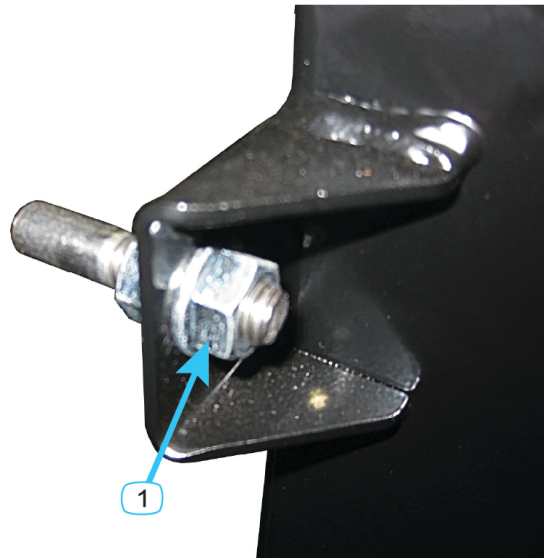


G566134

Adjusting the Window Latch Pins

The window latch pins can be adjusted if the windows do not close properly.

1. If the window does not seal correctly, loosen the nut on the window latch pin and move away from the window slightly.
2. If the window latch is hard to close, move the window latch pin toward the window slightly.
3. After the window latch pin is set correctly, torque the nut to 42 N·m (31 ft-lb).



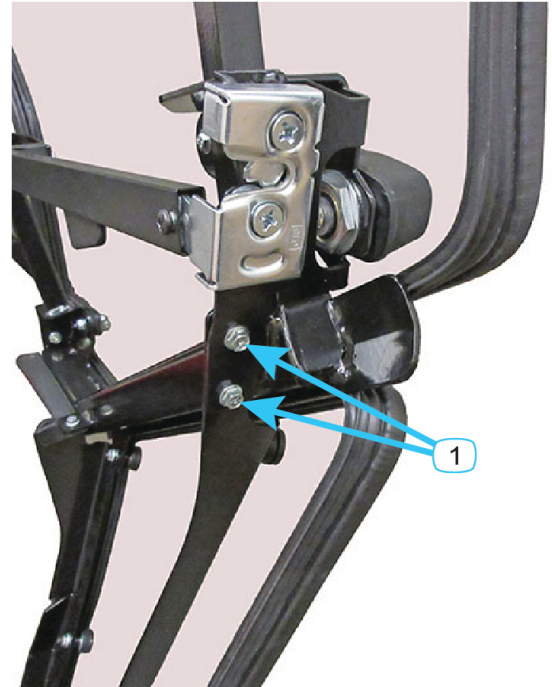
G566138

Adjusting the Door Lower Window

Check the bottom of the lower window on the door where it meets the front left cab mount. If there is a gap between the lower window and the front left cab mount when the main door is closed and sealed, the lower window needs to be adjusted inward. If the lower window contacts the front left cab mount too soon, it can prevent the cab door from latching or sealing properly and the lower window needs to be adjusted outward.

Adjusting the Door Lower Window (continued)

1. Loosen the two bolts^① at the top of the door window lower support.
2. Move the bottom of the lower window in or out until the proper position is reached.
3. Torque the bolts to 11 N·m (100 in-lb) and recheck to ensure the lower window closes properly.

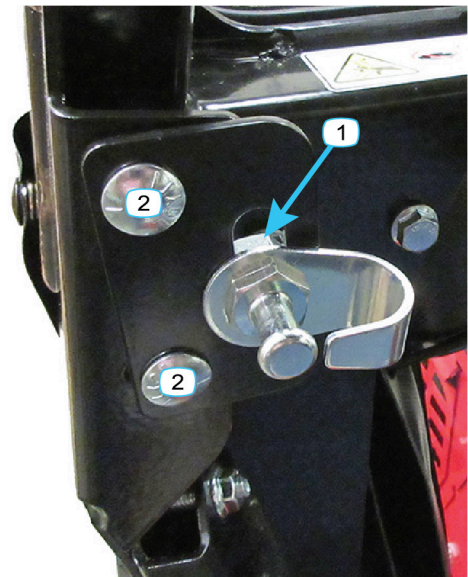


G566190

Adjusting the Door Latch

If the door does not latch properly, the latch pin can be adjusted to realign with the door latch.

1. If the latch pin and door latch are misaligned vertically, loosen the nut on the back of the latch pin^① and move the latch pin up or down until it is properly aligned with the door latch. Torque the latch pin nut to 92 N·m (68 ft-lb).
2. If the door does not latch because the latch pin is set too deep or if the door latches but does not seal properly, loosen the two latch plate bolts^② and move the latch plate in or out to the proper depth. Torque the bolts to 24 N·m (210 in-lb).



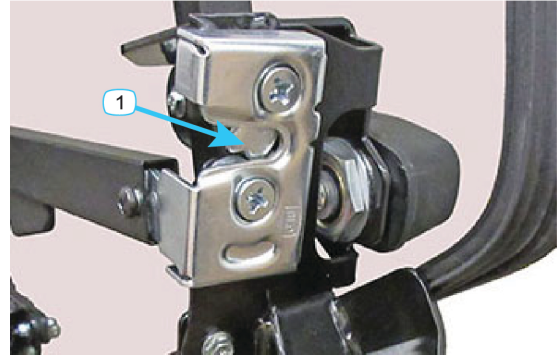
G566847

Note: Check the lower door window for proper adjustment prior to changing the latch pin depth.

Lubricating the Door Latch

Lubricate the door latch mechanism^① every 50 hours.

1. If using a spray lubricant, use a cloth to protect the window glass from over spray.
2. Use a spray lubricant or a lightweight oil to lubricate the door latch mechanism.
3. Wipe off any excess lubricant to prevent dripping.



G566202

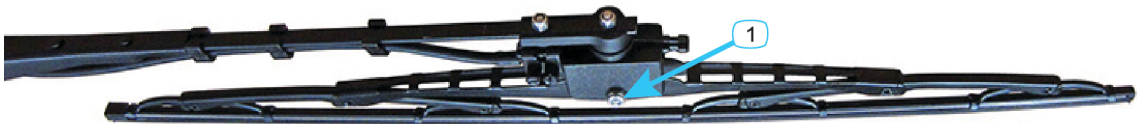
Replacing Fuses

1. Remove the sealed cover from the fuse panel.
2. Identify and remove the defective fuse from the socket. Refer to the fuse position diagram on the switch panel next to the fuse panel.
3. Insert a new fuse into the socket. Be sure the fuse is the correct amperage or damage may occur to the electrical system.
4. Install the sealed cover onto the fuse panel.

Replacing the Wiper Blade

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

1. Remove the nut^① and bolt that fasten the wiper blade to the wiper arm.



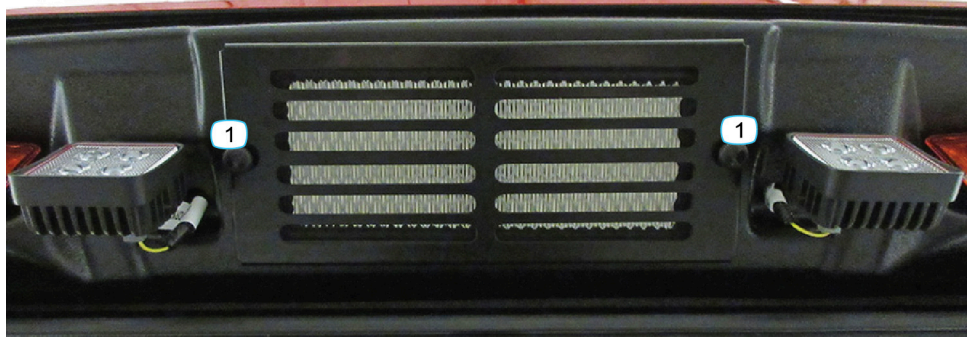
G566218

2. Install a new wiper blade and secure with the nut and bolt.

Replacing the Heater Air Filter

The heater air filter should be replaced on a yearly basis, or earlier if operating in dusty conditions.

1. Remove the two thumb screws^① holding the filter cover onto the cab.



G566287

2. Remove the air filter cover and air filter from the cab.
3. Place a new air filter onto the filter cover and install the filter and filter cover onto the cab. Secure the filter cover with the thumb screws.

Inspecting and Adjusting the Windshield Washer Nozzles

If your cab is equipped with a windshield washer kit, inspect the spray nozzles regularly to ensure they are functioning correctly and are adjusted to spray in the proper direction.

The wiper arm is equipped with four windshield washer nozzles, two on each side of the wiper arm. The spray nozzles can be adjusted with a flat blade screwdriver inserted in the adjustment slots. The adjustment slots are aligned with the nozzle spray direction and can be used to aim the nozzles when making adjustments.



G566230

1. Activate the windshield washer and check to ensure all four spray nozzles are functioning correctly.
2. Inspect the nozzle spray direction. Aim the two lower nozzles^① straight at the glass or slightly down. Aim the two upper nozzles^② so the washer fluid wets the glass at the top edge of the wiper blade.

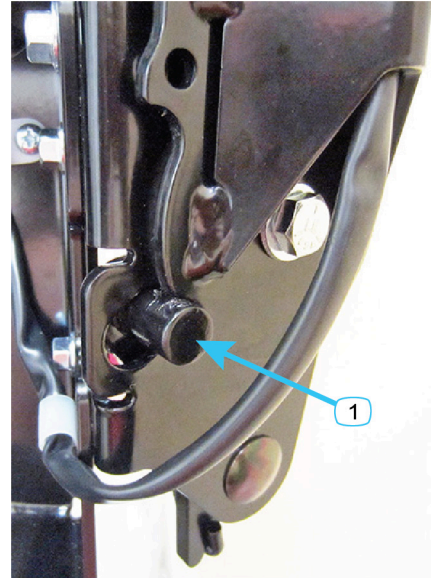
Changing the Strobe Light Flasher Mode

1. Remove the roof from the top of the cab.
2. Locate the wires from the strobe light where they connect to the main cab wire harness. The yellow wire from the strobe light is used to cycle the strobe light modes.
3. Turn the traction unit's ignition key to the RUN position to send power to the cab. Do not start the engine.
4. Turn the strobe light switch to the ON position.
5. Insert the bare end of the yellow wire into the back of the terminal on the red power supply wire. Each time you touch the yellow wire against the red power supply wire, the strobe light will change flasher modes.
6. When the desired flasher mode is reached, turn off the strobe light and turn the traction unit's ignition key to the OFF position.
7. Install the roof onto the top of the cab.

Lubricating the Strobe Light Pin

Lubricate the pin on the spring latch arm every 50 hours of operation.

1. Rotate the spring arm latch pin^① away from the strobe light arm pivot.
2. Apply a thin film of grease to the contact point of the spring latch arm pin and the strobe light arm pivot.



G566284

Traction Unit Tire Pressure

With a weather cab installed, adjust and maintain the traction unit tire pressure in the specified range.

Tire Type	
All Terrain	83 - 110 kPa (12 - 16 PSI)
Bar	83 - 110 kPa (12 - 16 PSI)
Turf	103 - 138 kPa (15 - 20 PSI)

Storage

Preparing the Weather Cab for Storage

1. Clean the weather cab as instructed in the [Cleaning the Weather Cab, page 5–5](#) section.
2. Inspect for loose or missing hardware, damaged components, or signs of wear. Repair or replace any damaged or worn components.
3. Inspect the safety decals. Replace any decals that are faded, illegible, or missing.
4. Remove the fuel tank cover from the weather cab.
5. Unsnap and remove the lower rear canvas window.
6. Remove the rear frame canvas from under the seat.
7. Disconnect the cab wire harness under the seat.
8. Remove the canvas pump cover skirt from the pump cover.
9. Remove the eight bellows support straps that fasten the pleated canvas, the windshield canvas, and the foot platform canvas to the left and right cab front supports, the canvas column mounts, and the pump cover.
10. Remove the left and right foot platform canvas.
11. Remove the left and right pleated canvas panels.
12. Remove the left column canvas from around the high/low shift lever.
13. Remove the right column canvas from around the parking brake and the neutral assist lever.
14. Remove the right lower window and window bracket from the cab. Wrap the window in protective foam or bubble wrap for storage.
15. Remove the lower door window, the window lower support, and the window lower bracket. Wrap the window in protective foam or bubble wrap for storage.
16. If the weather cab is equipped with a heater kit, locate the heater hose connections at the front of the left and right foot platforms. Pinch the hoses on each side of the connection to prevent loss of fluid, disconnect the hoses, and cap the ends with the fittings provided with the heater kit.
17. If the weather cab is equipped with a windshield washer kit, remove the windshield washer tank mount from the weather cab mounting bracket on the right rear frame post to allow clearance of the roll bar hinge point when lifting the cab off the traction unit. The tank does not need to be disconnected from the wire harness and windshield washer tubing.
18. If the weather cab is equipped with a strobe light, rotate the strobe light back and down to the lowered position.
19. Place the components removed from the cab and traction unit in a box for storage. Wrap the painted components to protect them from damage to the finish.

Removing the Weather Cab from the Traction Unit



WARNING



To lift the weather cab, use a Ventrac lift sling (part number 47.0381) attached to the four corner lift points or remove the cab roof and attach a lifting device with a minimum rating of 226 kg (500 pounds) to the two lift points inside the cab roof.

Do not walk or stand beneath the weather cab when it is raised off the ground.



WARNING



Place wheel chocks in front and back of the wheels to prevent the traction unit from moving during setup of the traction unit and the weather cab.

1. Park the traction unit on a level surface that is accessible with a hoist. Engage the parking brake, shut off the engine, and remove the ignition key.
2. Place wheel chocks in front and back of the wheels to prevent the traction unit from moving.
3. Attach the lift sling or other lifting device to the weather cab lift points.
4. Remove the hardware that fastens the cab to the upper and lower roll bar mounts.
5. Loosen the nuts on the four 5/16 inch carriage bolts that fasten the front cab mounts to the front cab support tubes.
6. Loosen the four 5/16 x 3/4 inch flange bolts that fasten the cab frame flange to the front cab supports.
7. Adjust the lift hoist to support the cab and remove the 5/16 inch carriage and flange bolts that fasten the cab to the front cab supports.
8. Lift the weather cab and remove it from the traction unit.

Note: If the weather cab is equipped with a windshield washer kit, watch the windshield washer tank to ensure it does not snag on the traction unit during lifting and removal.

9. Place the weather cab onto a pallet for storage and fasten securely to the pallet.

Note: If the original crating brackets and hardware were saved from the cab installation, they can be used to fasten the cab to the pallet.

10. Remove the left and right cab front supports from the traction unit and store in the box with the other cab components.
11. The remaining cab components may be left installed on the traction unit for quicker reinstallation of the weather cab.

Removing the Weather Cab from the Traction Unit (continued)

Note: If the weather cab is being removed permanently, remove the roll bar mounting brackets, the front cab mounts, the window rear lower mount, the top and right rear window brackets around the hydraulic cooler fan, and the canvas column mounts from the dash. Replace the pump cover with flanges with the original pump cover. Remove the 4-point seat belt and install the original lap belt onto the traction unit.



WARNING



The traction unit must be equipped with a seat belt. When the 4-point seat is removed, the original or a replacement lap belt must be installed onto the traction unit.

12. If desired, remove the 4-point seat belt and install the original lap belt onto the traction unit.
13. Move the traction unit's steering cylinder to the center mounting hole if using dual wheels or move to the inner mounting hole if using single wheels.
14. If desired, install the right and left foot pegs onto the traction unit.
15. Place the box of components on the pallet inside the cab.
16. Place the lower windows on top of the box inside the cab.
17. Store the cab at a location where it is protected from damage.

Removing the Weather Cab from Storage

1. Clean the weather cab to remove any accumulated dust or debris.
2. Install the weather cab onto the traction unit following the setup instructions in this manual.
3. Inspect the weather cab as instructed in the [Daily Inspection, page 5–2](#) section.
4. Test the weather cab to ensure that all components are working properly.



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Dimensions

Note: Specifications and design are subject to change without notice.

Width	129.5 cm (51 inches)
Length	147 cm (58 inches)
Height	185.5 cm (73 inches)
Weight	181.5 kg (400 lb)
Height (installed on machine)	206 cm (81 inches)
Height with Strobe Light (installed on machine)	219 cm (86 inches)
Length (installed on machine w/standard hitch)	234 cm (92 inches)
Machine Turning Radius w/Cab Installed	173 cm (68 inches)

Features

- Glass on frame design
- Tempered glass
- Removable door and side windows
- Emergency exit
- Window in the lower rear panel
- Windows in the front pleated canvas panels
- Heavy duty front wiper and wiper motor with intermittent function
- Front and rear LED work lights
- 4 point seat belt
- Cushioned headrest



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Limited Warranty — Ventrac Commercial 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 V.P.I., and found by V.P.I., to be defective in material and/or workmanship during the applicable warranty term.

All Ventrac commercial equipment purchased 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
2000 Series SSV's and Attachments	2-year
3000 Series Tractors and Attachments	2-year
4000 Series Tractors and 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, the 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.

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 data 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.

All implied warranties, including merchantability and fitness for a particular purpose, are limited to the duration of the express warranty.

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 or 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.

Notes:

