

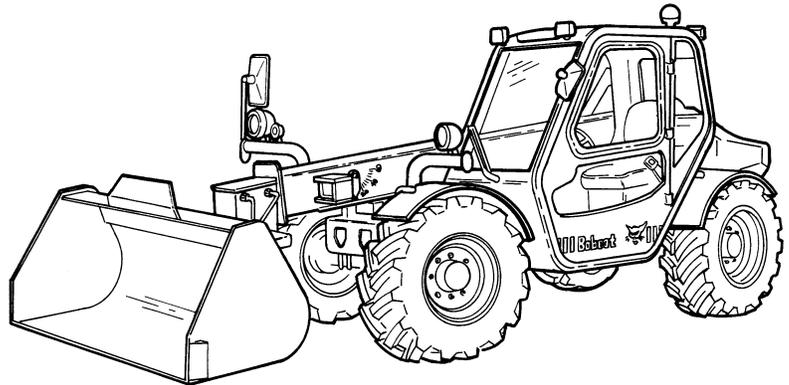
V518



Bobcat®
VersaHANDLER

Service Manual

S/N 367610501, 367611001 & Above
S/N 367711001 & Above



Product: 2011 Bobcat V518 VersaHANDLER Service Repair Workshop Manual
Full Download: <https://www.arepairmanual.com/downloads/2011-bobcat-v518-versahandler-service-repair-workshop-manual/>

Sample of manual. Download All 1079 pages at:
<https://www.arepairmanual.com/downloads/2011-bobcat-v518-versahandler-service-repair-workshop-manual/>

MAINTENANCE SAFETY

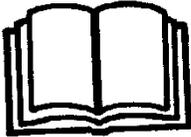


WARNING

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0903

CORRECT



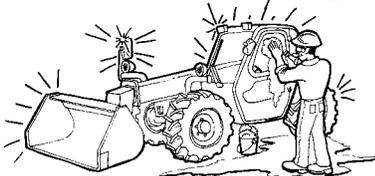
B-10731a

- ⚠ Never service the Bobcat VersaHANDLER without instructions.



Safety Alert Symbol: This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.

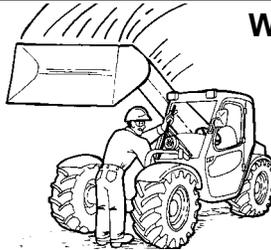
CORRECT



B-16082

- ⚠ Cleaning and maintenance are required daily.

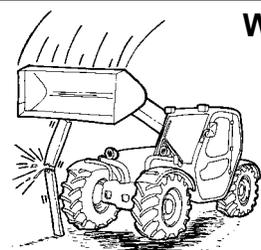
WRONG



B-16080

- ⚠ Disconnecting or loosening any hydraulic tubeline, hose, fitting, component or a part failure can cause boom to drop. Do not go under boom when raised unless supported by an approved boom stop. Replace if damaged.

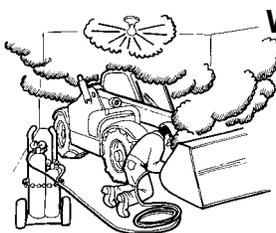
WRONG



B-16079

- ⚠ Never work on VersaHANDLER with boom up unless boom is held by an approved boom stop. Replace if damaged.
- ⚠ Never modify equipment or add attachments not approved by Bobcat Company.

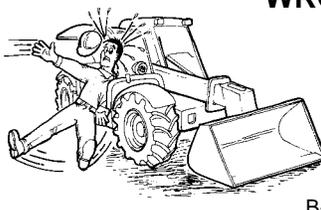
WRONG



B-16081

- ⚠ Have good ventilation when welding or grinding painted parts.
- ⚠ Wear dust mask when grinding painted parts. Toxic dust and gas can be produced.
- ⚠ Avoid exhaust fume leaks which can kill without warning. Exhaust system must be tightly sealed.

WRONG



B-16078

- ⚠ Keep body, jewelry and clothing away from moving parts, electrical contact, hot parts and exhaust.
- ⚠ Wear eye protection to guard from battery acid, compressed springs, fluids under pressure and flying debris when engines are running or tools are used. Use eye protection approved for type of welding.

WRONG



B-6589

- ⚠ Lead-acid batteries produce flammable and explosive gases.
- ⚠ Keep arcs, sparks, flames and lighted tobacco away from batteries.
- ⚠ Batteries contain acid which burns eyes or skin on contact. Wear protective clothing. If acid contacts body, flush well with water. For eye contact flush well and get immediate medical attention.

Maintenance procedures which are given in the Operation & Maintenance Manual can be performed by the owner/operator without any specific technical training. Maintenance procedures which are **not** in the Operation & Maintenance Manual must be performed **ONLY BY QUALIFIED BOBCAT SERVICE PERSONNEL**. Always use **genuine Bobcat replacement parts**.

MSW12-0805



Bobcat®

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**SAFETY &
MAINTENANCE**

**HYDRAULIC
SYSTEM**

**HYDROSTATIC
SYSTEM**

**DRIVE
SYSTEM**

MAIN FRAME

**ELECTRICAL
SYSTEM &
ANALYSIS**

**ENGINE
SERVICE**

HVAC

SPECIFICATIONS



Bobcat®

FOREWORD

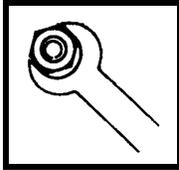
This manual is for the Bobcat VersaHANDLER mechanic. It provides necessary servicing and adjustment procedures for the Bobcat VersaHANDLER and its component parts and systems. Refer to the Operation & Maintenance Manual for operating instructions, starting procedure, daily checks, etc.

A general inspection of the following items must be made after the VersaHANDLER has had service or repair:

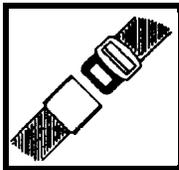
1. Check that ROPS/FOPS (Including right side window) is in good condition and is not modified.



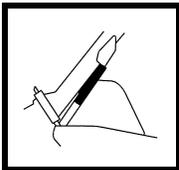
2. Check that ROPS mounting hardware is tightened and is Bobcat approved.



3. The seat belt must be correctly installed, functional and in good condition.



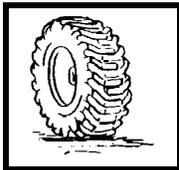
4. Check boom support device, replace if damaged.



5. Machine signs must be legible and in the correct location.



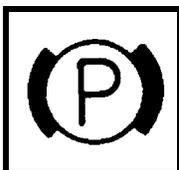
6. Check tires for wear and pressure. Use only approved tires.



7. Check for correct function of the work lights.



8. The parking brake must function correctly.



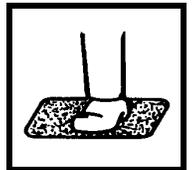
9. Enclosure door latches must open and close freely.



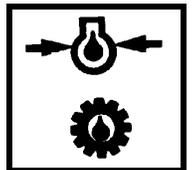
10. Attachment locking pins must function correctly and be in good condition.



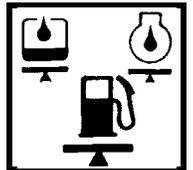
11. Safety treads must be in good condition.



12. Check for correct function of indicator lamps and gauges.



13. Check hydraulic fluid level, engine oil level and fuel supply.



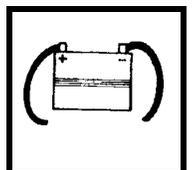
14. Inspect for fuel, oil or hydraulic fluid leaks.



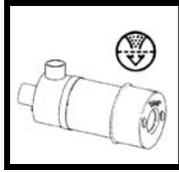
15. Lubricate the VersaHANDLER.



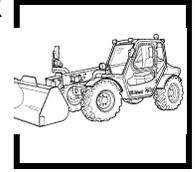
16. Check the condition of the battery and cables.



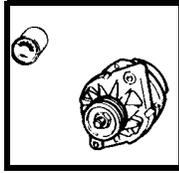
17. Inspect the air cleaner for damage or leaks. Check the condition of the element.



20. Operate the VersaHANDLER and check all functions.



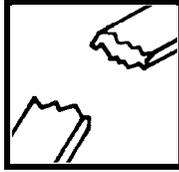
18. Check the electrical charging system.



21. Check for any field modification not completed.



19. Inspect for loose or broken parts or connections.



22. Recommend to the owner that all necessary corrections be made before the machine is returned to service.



23. Check that LORS™ is in good condition and is not modified.



**CALIFORNIA
PROPOSITION 65 WARNING**

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

SAFETY INSTRUCTIONS



Safety Alert Symbol

This symbol with a warning statement means:
“Warning, be alert! Your safety is involved!”
Carefully read the message that follows.



WARNING

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0903



WARNING

Warnings on the machine and in the manuals are for your safety. Failure to obey warnings can cause injury or death.

W-2044-1285

IMPORTANT

This notice identifies procedures which must be followed to avoid damage to the machine.

I-2019-0284

The following publications provide information on the safe use and maintenance of the Bobcat machine and attachments:

- The Delivery Report is used to assure that complete instructions have been given to the new owner and that the machine is in safe operating condition.
- The Operation & Maintenance Manual delivered with the machine or attachment contains operating information as well as routine maintenance and service procedures. It is a part of the machine and can be stored in a container provided on the machine. Replacement Operation & Maintenance Manuals can be ordered from your Bobcat dealer.
- Machine signs (decals) instruct on the safe operation and care of your Bobcat machine or attachment. The signs and their locations are shown in the Operation & Maintenance Manual. Replacement signs are available from your Bobcat dealer.
- An Operator's Handbook fastened to the operator cab. It's brief instructions are convenient to the operator. The handbook is available from your dealer in an English edition or one of many other languages. See your Bobcat dealer for more information on translated versions.
- The AEM Safety Manual delivered with the machine gives general safety information.
- The Service Manual and Parts Manual are available from your dealer for use by mechanics to do shop-type service and repair work.
- The VersaHANDLER Operator Training Course is available through your local dealer or at www.training.bobcat.com or www.bobcat.com. This course is intended to provide rules and practices of correct operation of the VersaHANDLER.
- The VersaHANDLER Safety Video is available from your Bobcat dealer or at www.training.bobcat.com or www.bobcat.com.

SI VH-0206 SM

SAFETY INSTRUCTIONS (CONT'D)

The dealer and owner/operator review the recommended uses of the product when delivered. If the owner/operator will be using the machine for a different application(s) he or she must ask the dealer for recommendations on the new use.



Call Before You Dig

1-888-258-0808

When you call, you will be directed to a location in your state/city for information about buried lines (telephone, cable TV, water, sewer, gas, etc.)



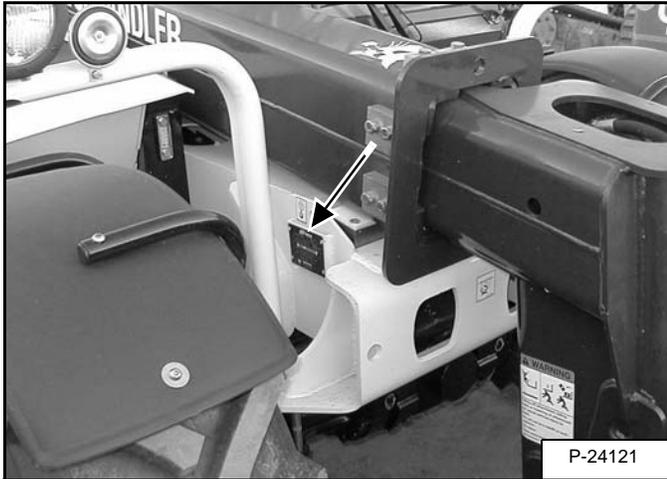
Bobcat®

SERIAL NUMBER LOCATION

Always use the serial number of the VersaHANDLER when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation.

VersaHANDLER Serial Number

Figure 2

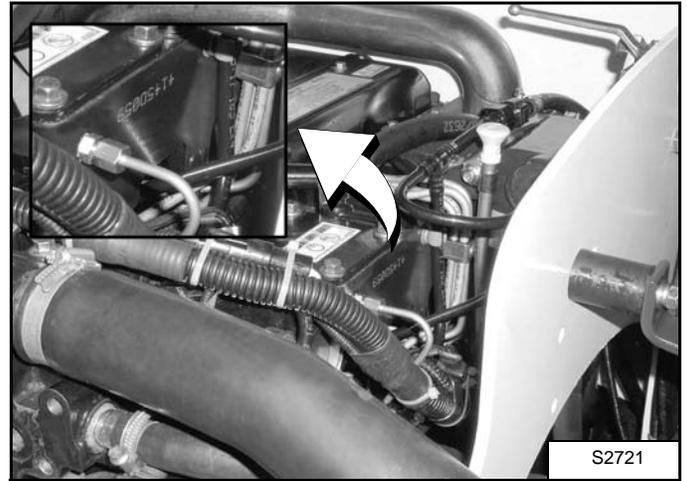


The front, on the right side of the chassis [Figure 2].

Engine Serial Number

Earlier Models

Figure 3



The engine serial number is stamped on a plate near the injection pump or at the rear of the cylinder block [Figure 3]. Always use the full number when ordering replacement parts.

Later Models

Figure 4



The engine serial number can be found on the cylinder block [Figure 4] in front of you when opening the engine cover. Always use the full number when ordering replacement parts.

Other Serial Numbers

Some components may also have serial numbers. Always use these serial numbers when requesting parts.

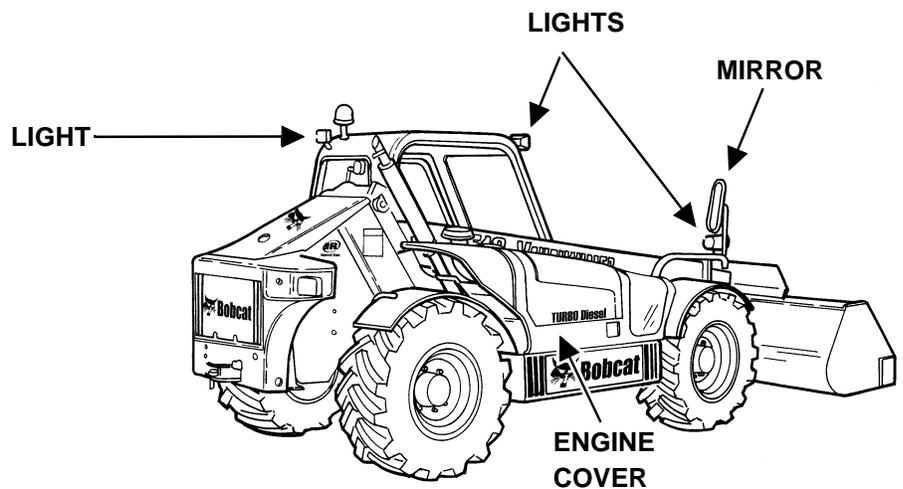
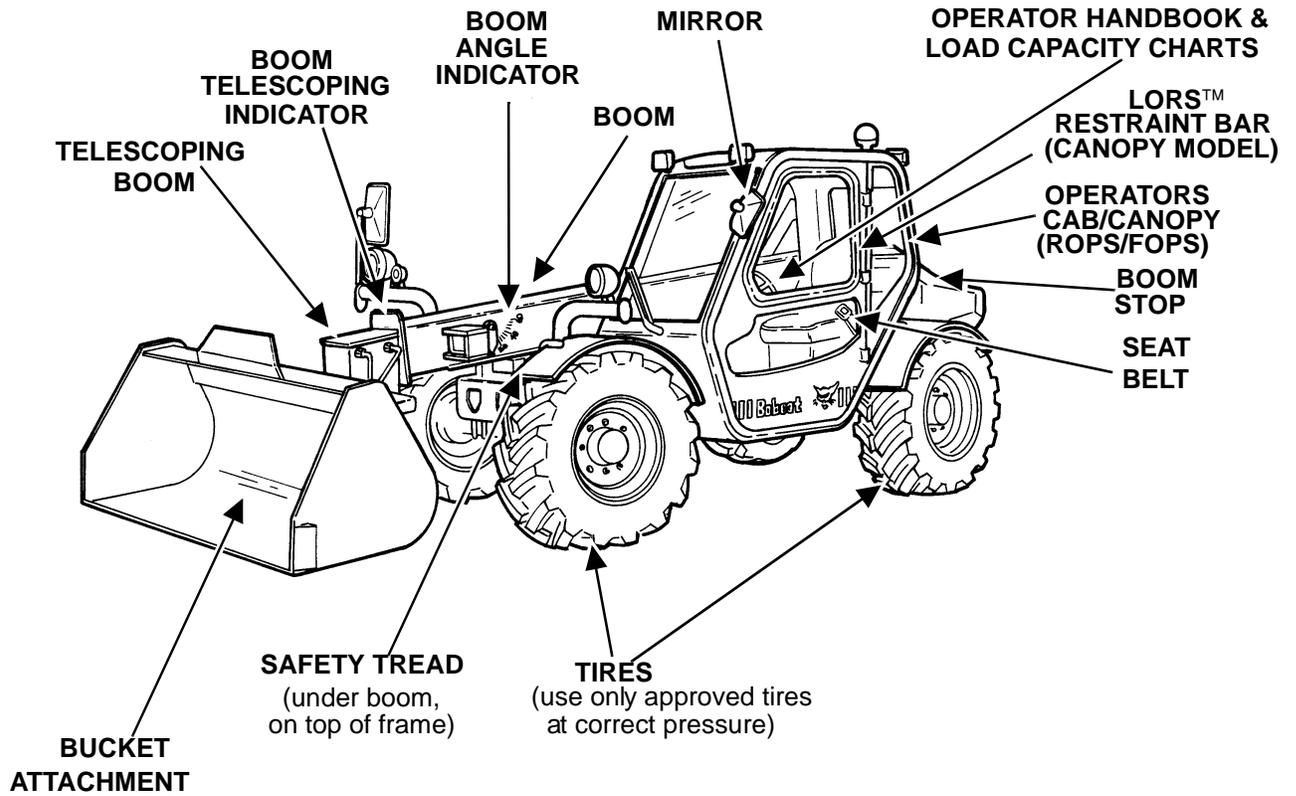
DELIVERY REPORT

Figure 5

The diagram shows a form layout for a delivery report. It includes a title 'DELIVERY REPORT', a 'WARNING' section, and various text entry areas represented by horizontal lines. A reference code 'B-16315' is located in the bottom right corner of the form area.

The Delivery Report must be filled out by the dealer and signed by the owner or operator when the VersaHANDLER is delivered. An explanation of the form must be given to the owner. Make sure it is filled out completely **[Figure 5]**.

BOBCAT VERSAHANDLER IDENTIFICATION



B-15886
B-23131



Bobcat®

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 Replacing Filter Element 10-60-1

APPROVED BOOM STOP 10-150-1
 Installing The Approved Boom Stop. 10-150-1
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LIFTING AND BLOCKING THE VERSAHANDLER

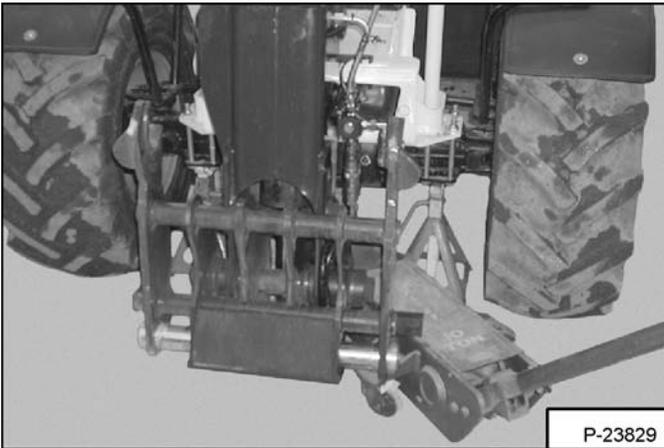
Procedure



Put jackstands under the front axles and rear corners of the frame before running the engine for service. Failure to use jackstands can allow the machine to fall or move and cause injury or death.

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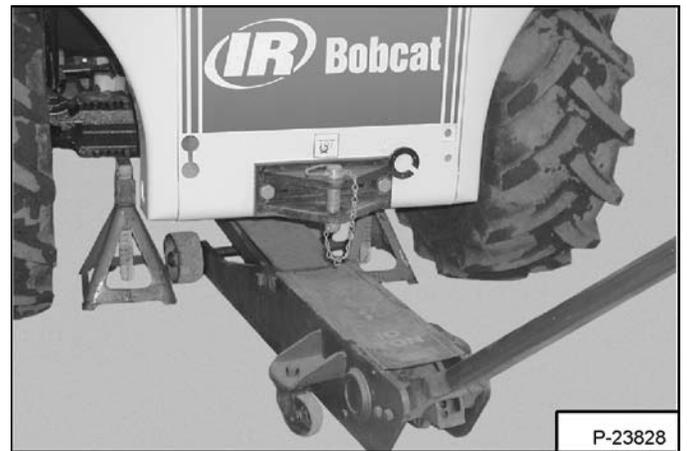
Figure 10-10-1



Always park the machine on a level surface.

STOP the engine. Put the floor jack under the center of the front axle. Lift the Versa HANDLER and install jackstands [Figure 10-10-1].

Figure 10-10-2



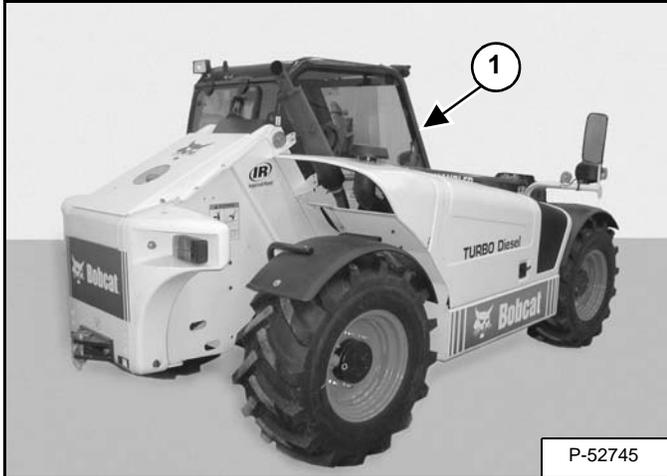
Put the floor jack under the center of the rear axle. Lift the Versa HANDLER and install jackstands [Figure 10-10-2].



Bobcat®

OPERATOR CAB/CANOPY

Figure 10-20-1



The VersaHANDLER has an operator cab or canopy (ROPS and FOPS) (Item 1) [Figure 10-20-1] to protect the operator from rollover and falling objects. Check with your dealer if the operator cab or canopy has been damaged. Never operate without right window. The seat belt must be worn for roll over protection.

ROPS/FOPS - Roll Over Protective Structure per SAE J1040 and ISO 3471, and Falling Object Protective Structure per SAE J1043 and ISO 3449 (FOPS Level II).

WARNING

Never modify operator cab or canopy by welding, grinding, drilling holes or adding attachments unless instructed to do so by Bobcat. Do not operate without right window. Changes to the cab or canopy can cause loss of operator protection from rollover and falling objects, and result in serious injury or death.

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Emergency Exit

Figure 10-20-2



Turn the handle (Inset) [Figure 10-20-2] and push the rear window open. (Models with enclosed cab only.) Exit through the rear window opening [Figure 10-20-2].

OPERATOR CAB/CANOPY (CONT'D)

Cab Door

Figure 10-20-3

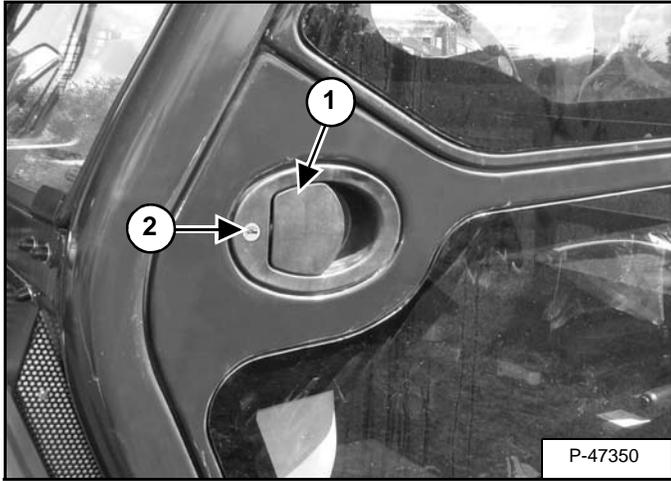
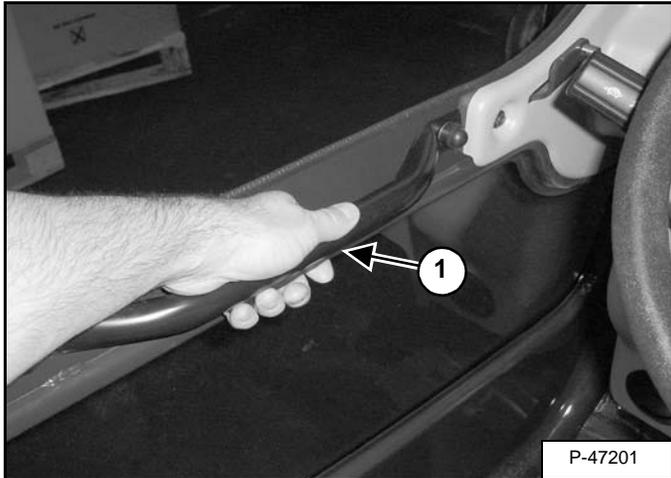


Figure 10-20-4

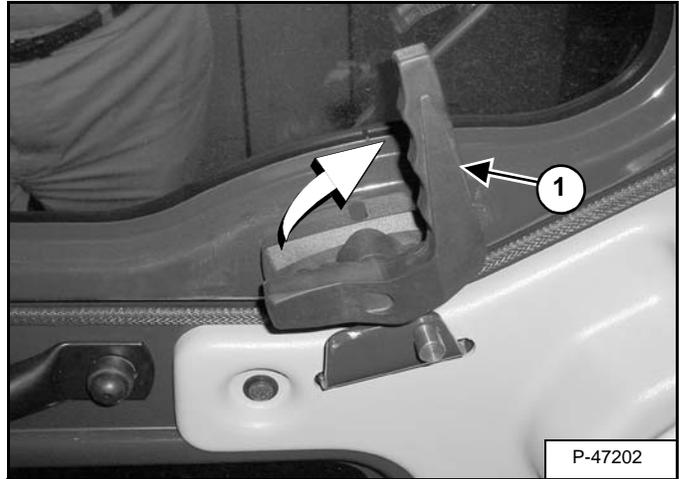


The cab door can be opened from the outside of the cab using the latch (Item 1) [Figure 10-20-3] and open from the inside of the cab when you squeeze the latch (Item 1) [Figure 10-20-4] (as shown).

The cab door can be locked (Item 2) [Figure 10-20-3] with the start key.

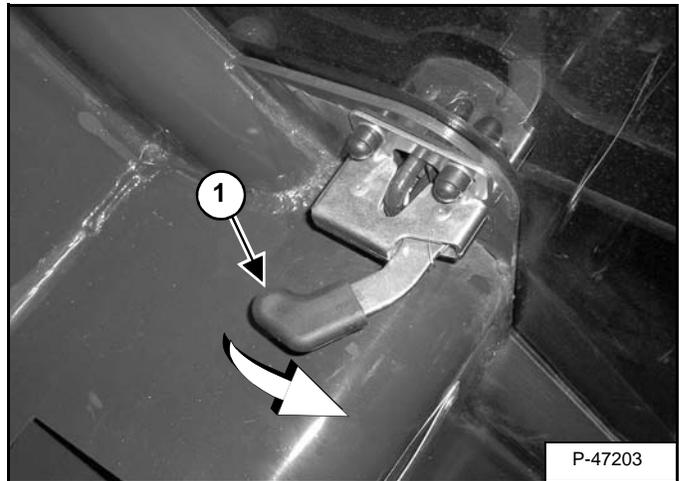
Cab Door Window

Figure 10-20-5



Turn the handle (Item 1) [Figure 10-20-5] (as shown). Push open the window fully until it latches against the cab.

Figure 10-20-6



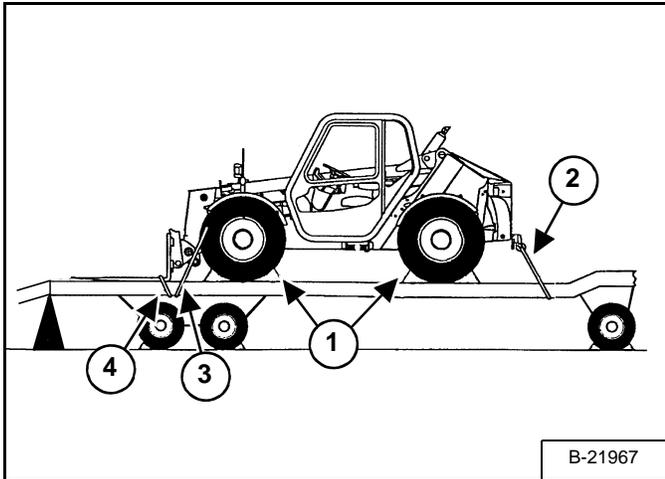
Pull the lever (Item 1) [Figure 10-20-6] inside the cab to disengage the latch and close the window.

TRANSPORTING THE VersaHANDLER

Procedure

Always drive the VersaHANDLER backwards (heavy end up) onto the transport vehicle.

Figure 10-30-1



The rear of the trailer must be blocked or supported [Figure 10-30-1] when loading or unloading the VersaHANDLER to prevent the front end of the trailer from raising up.

Be sure the transport and towing vehicles are of adequate size and capacity. (See Performance Specifications on Page SPEC-10-2.) for weight of the VersaHANDLER).

Fasten the VersaHANDLER to the transport vehicle to prevent it from moving during sudden stops or when going up or down slopes.

- Block the wheels (Item 1) [Figure 10-30-1].
- Fasten the machine frame to the transport vehicle (Items 2 & 3) [Figure 10-30-1].
- Attach the forks or bucket attachment to the transport vehicle (Item 4) [Figure 10-30-1].

WARNING

Adequately designed ramps of sufficient strength are needed to support the weight of the machine when loading onto a transport vehicle. Wood ramps can break and cause personal injury.

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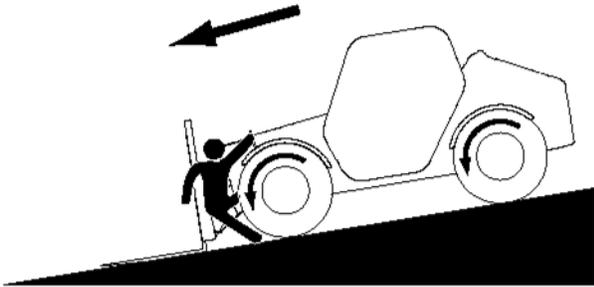
TOWING THE VERSAHANDLER (FOR S/N 367611001 - 367612000 AND S/N 367711001 - 367712000)

Procedure

The VersaHANDLER can be towed a short distance such as removing it from mud or loading onto a transport vehicle.



WARNING



**Unexpected Machine Movement
Can Cause Serious Injury or Death**

Before adjusting screws to bypass the park brake system:

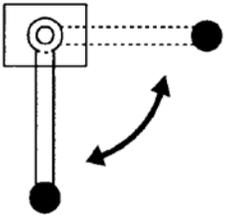
- Block wheels to prevent roll away.

Before operating machine:

- Return adjustment screws to the operating position.

41625
SW 01 6809622

TOW VALVE



**TOWING
POSITION**

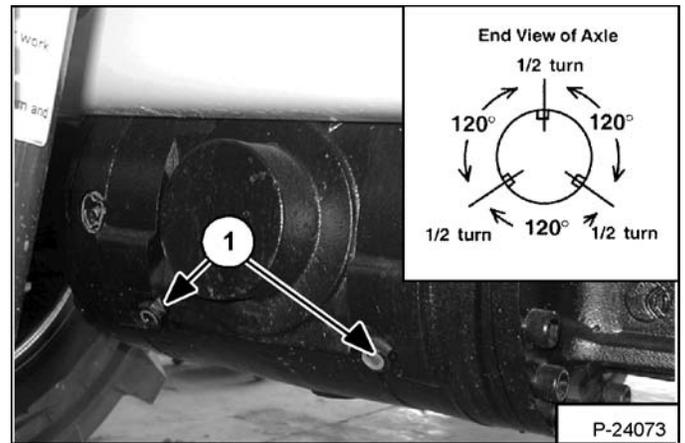


OPERATING POSITION

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SW 01 6810678

Block the wheels to prevent the machine from rolling.

Figure 10-40-1



Releasing Brake Disks: To release the brake disks, turn each of the six (6) screws (Item 1) [Figure 10-40-1] in only one half turn at a time; then repeat until all six screws are all the way in. (It will take 4 & 1/2 to 5 turns to fully release the brakes.) Record the number of turns so that you can return them to the same position later.

NOTE: This procedure is required on the front axle only.

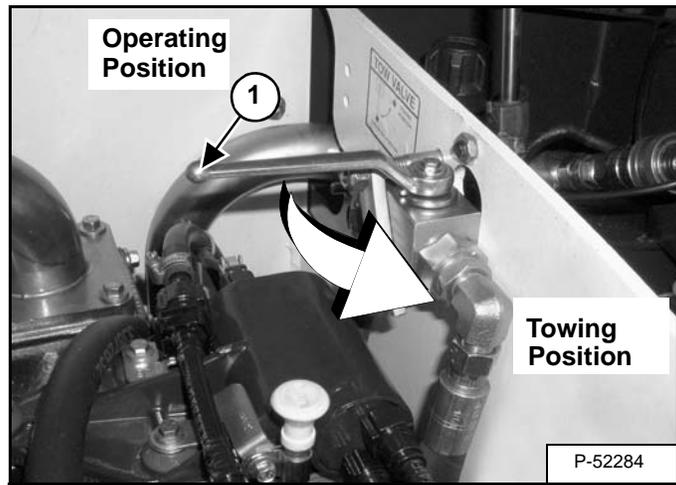
NOTE: If one screw is turned all the way in before you start turning the others, the brake can be damaged.

There are three screws on each side (right and left) located 120° apart [Figure 10-40-1].

**TOWING THE VERSAHANDLER (FOR S/N 367611001
- 367612000 AND S/N 367711001 - 367712000)
(CONT'D)**

Procedure (Cont'd)

Figure 10-40-2



Raise the engine cover.

Turn the tow valve counterclockwise 90° (Item 1) **[Figure 10-40-2]** to TOWING POSITION.

Tow the VersaHANDLER at slow speed.

Engaging Brake Disks: After towing is completed, turn the tow valve (Item 1) **[Figure 10-40-2]** clockwise 90° to the OPERATING POSITION.

Turn all six screws out, 1/2 turn at a time, to their original position.

TOWING THE VERSAHANDLER (S/N 367612001 & ABOVE, S/N 367712001 & ABOVE)

Procedure

The VersaHANDLER can be towed a short distance such as removing it from mud or loading onto a transport vehicle.

WARNING

**Unexpected Machine Movement
Can Cause Serious Injury or Death**

Before adjusting screws to bypass the park brake system:

- Block wheels to prevent roll away.

Before operating machine:

- Return adjustment screws to the operating position.

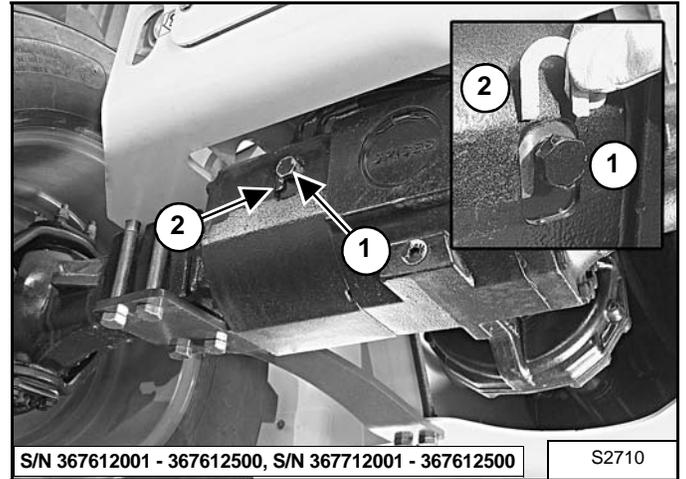
41625
SW 01 6809622

Block the wheels to prevent the machine from rolling.

Releasing Brake Disks:

(For S/N 367612001 - 367612500 and S/N 367712001 - 367712500):

Figure 10-41-1

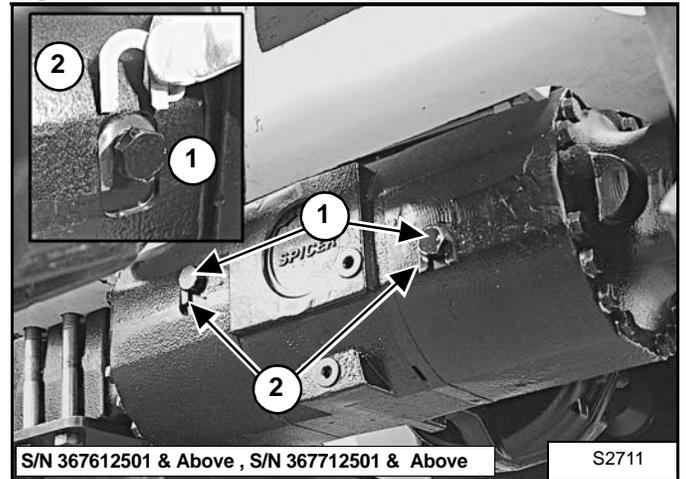


Loosen the two bolts (Item 1) until the slotted spacer (Item 2) [Figure 10-41-1] can be removed from under the bolt head (the bolts and washers are located on both the front and rear side of front axle).

Remove the washer (Item 2) [Figure 10-41-1] and save for reuse.

(For S/N 367612501 & Above and S/N 367712501 & Above):

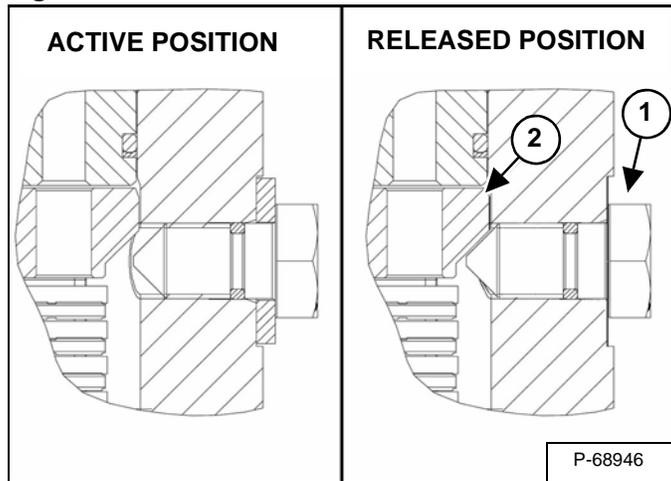
Figure 10-41-2



Loosen the four bolts (Item 1) until the slotted spacer (Item 2) [Figure 10-41-2] can be removed from under the bolt head (the bolts and washers are located on both the front and rear side of front axle).

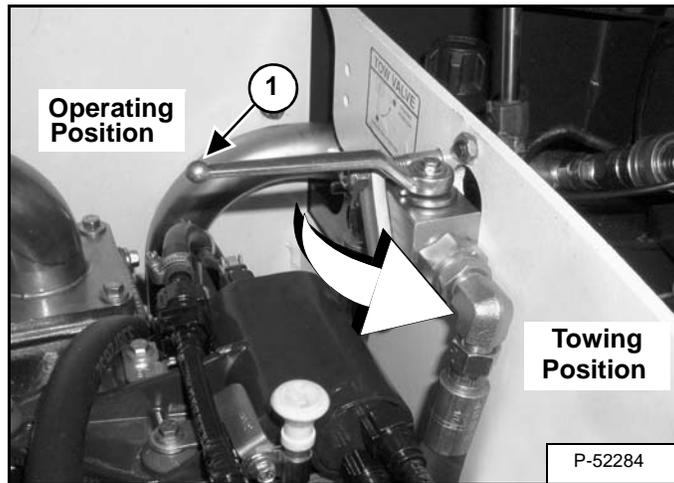
Remove the washer (Item 2) [Figure 10-41-2] and save for reuse.

Figure 10-41-3



After removing the washer, tighten the bolt (Item 1) to hold the park brake piston (Item 2) [Figure 10-41-3] in the released position.

Figure 10-41-4



Raise the engine cover.

Turn the tow valve counterclockwise 90° (Item 1) [Figure 10-41-4] to TOWING POSITION.

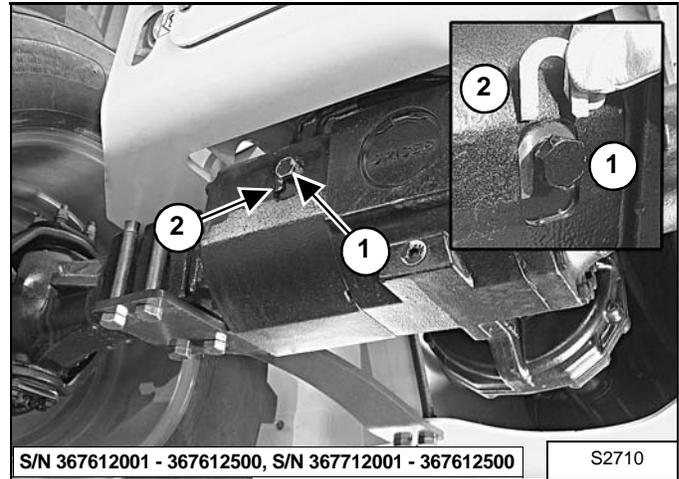
Tow the VersaHANDLER at a slow speed.

Engaging Brake Disks:

Block the wheels to prevent the machine from rolling.

(For S/N 367612001 - 367612500 and S/N 367712001 - 367612500):

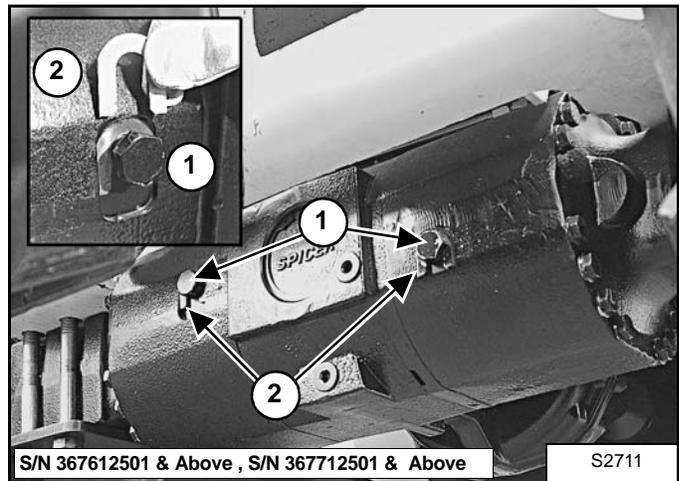
Figure 10-41-5



Loosen the two bolts (Item 1) until the spacer (Item 2) [Figure 10-41-5] can be installed under the bolt head (the bolts and washers are located on both the front and rear side of front axle).

(For S/N 367612501 & Above, S/N 367712501 & Above):

Figure 10-41-6



Loosen the four bolts (Item 1) until the spacer (Item 2) [Figure 10-41-6] can be installed under the bolt head (the bolts and washers are located on both the front and rear side of front axle).