

PARKING BRAKE

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



UNEXPECTED MACHINE MOVEMENT CAN CAUSE SERIOUS INJURY OR DEATH

- Block wheels to prevent roll away before adjusting screws to bypass the park brake system.
- Return adjustment screws to the operating position before operating the machine.

W-2808-0909

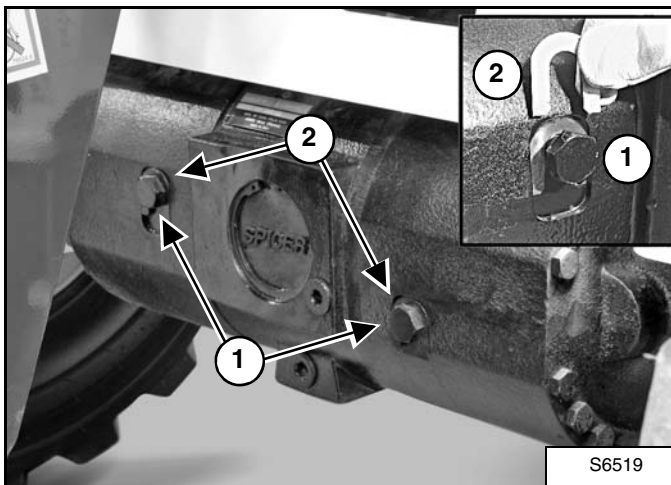
Block the wheels to prevent the machine from rolling.

Releasing The Brake Discs

The brakes are engaged by spring pressure and released by hydraulic pressure. The parking brake must be released manually before towing (if the engine can not be started to release the brakes or there is no hydraulic pressure). Only the front axle has brakes.

The following procedure describes how to release the brakes:

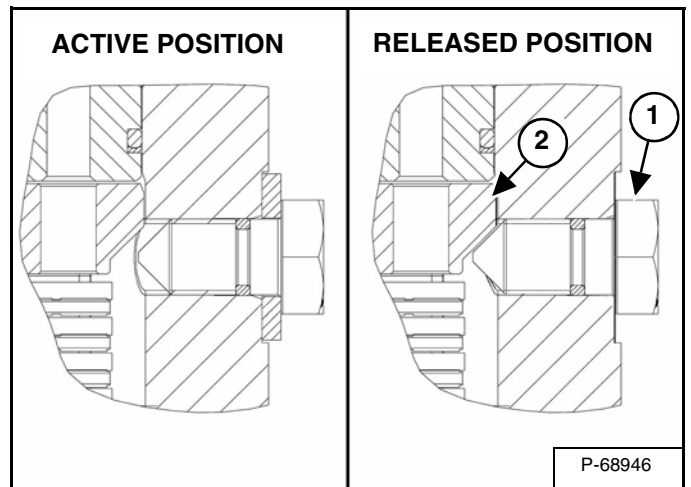
Figure 40-50-1



Loosen the four bolts (Item 1) until the slotted spacers (Item 2) [Figure 40-50-1] can be removed from under the bolt heads (the bolts and spacers are located on both the front and rear side of the front axle).

Remove the spacers (Item 2) [Figure 40-50-1] and save for reuse.

Figure 40-50-2

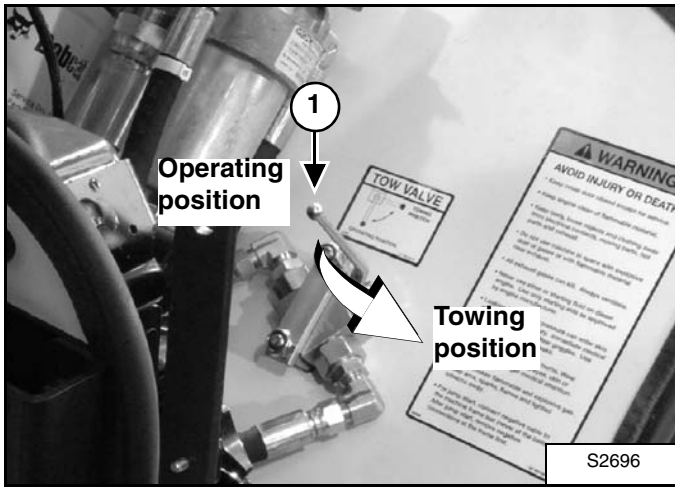


After removing the spacers, evenly tighten the front and rear bolts (Item 1) to hold the parking brake piston (Item 2) [Figure 40-50-2] in the released position.

PARKING BRAKE (CONT'D)

Releasing The Brake Discs (Cont'd)

Figure 40-50-3



Raise the engine cover.

Turn the tow valve counterclockwise 90° (Item 1) [Figure 40-50-3] to TOWING POSITION.

Tow the VersaHANDLER at a slow speed.

NOTE: The vehicle will not be able to brake until the four bolts (Item 1) [Figure 40-50-4] & [Figure 40-50-5] are returned to their original position.

WARNING

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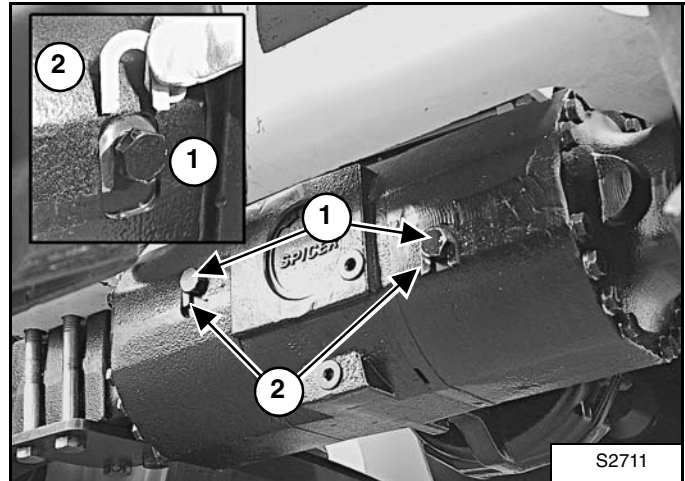
Block the wheels to prevent the machine from rolling.

After towing is completed, turn the tow valve (Item 1) [Figure 40-50-3] clockwise 90 degrees to the OPERATING POSITION.

NOTE: If the tow valve is not returned to the operating position, the machine will not be able to be driven forward or backward.

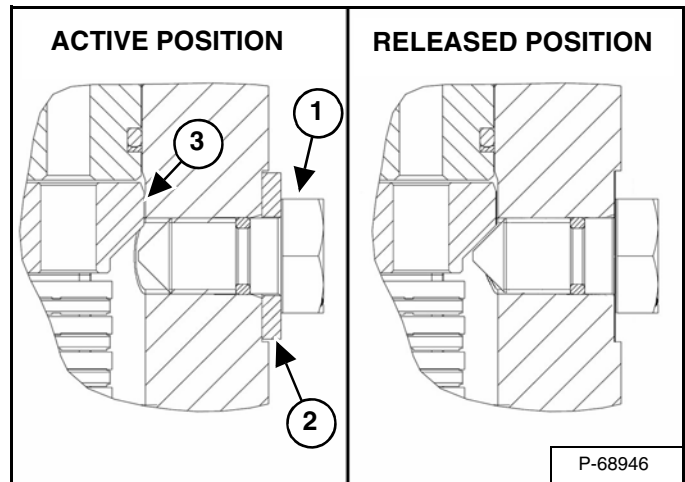
Engaging The Brake Discs

Figure 40-50-4



Loosen the four bolts (Item 1) until the spacers (Item 2) [Figure 40-50-4] can be installed under the bolt heads (the bolts and washers are located on both the front and rear side of front axle).

Figure 40-50-5



Evenly tighten the front and rear bolts (Item 1) to hold the spacers (Item 2) [Figure 40-50-4] & [Figure 40-50-5].

Tighten the bolts to 70 - 85 ft.-lb. (95 - 115 N•m) torque.

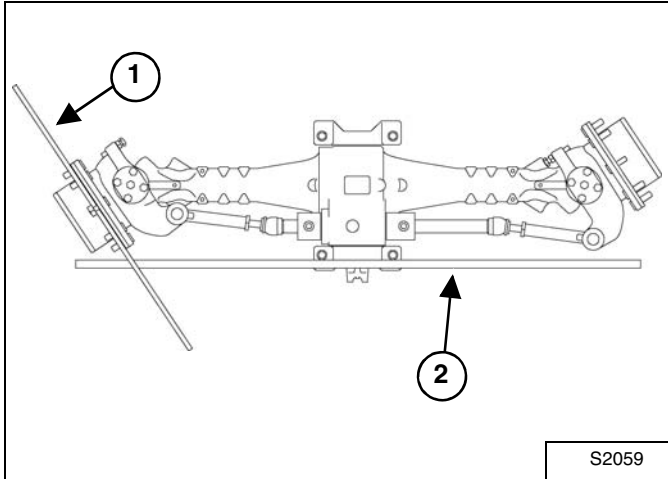
This will allow the parking brake piston (Item 3) [Figure 40-50-5] to be active again.

STEERING ANGLE ADJUSTMENT

Adjustment

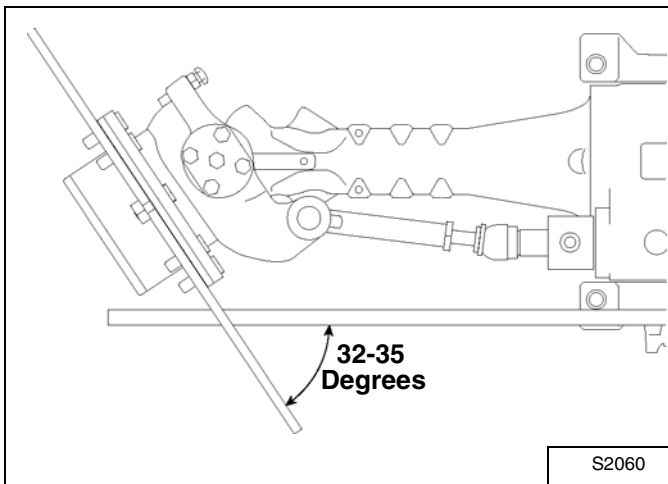
The axle is removed from the machine for photo clarity, but this procedure may be completed with the axle installed in the machine.

Figure 40-60-1



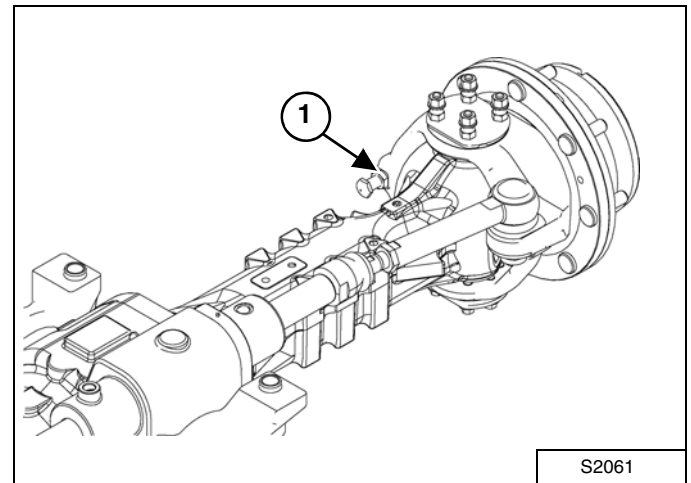
Install a straight bar (Item 1) onto the wheel hub and secure using lug nuts. Turn the steering wheel completely to one side. Place a straight bar (Item 2) [Figure 40-60-1] on the pinion shaft.

Figure 40-60-2



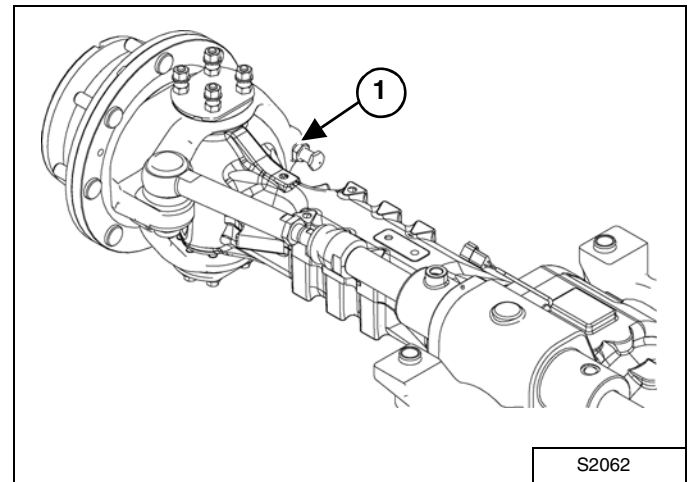
Use an angle gauge, to obtain a reading of 32-35 degrees [Figure 40-60-2].

Figure 40-60-3



Adjust the stop (Item 1) [Figure 40-60-3] as needed. Tighten the lock nut to 110 ft.-lb. (150 N•m) torque.

Figure 40-60-4



Turn the steering wheel completely to the other side [Figure 40-60-4] and repeat above procedure.

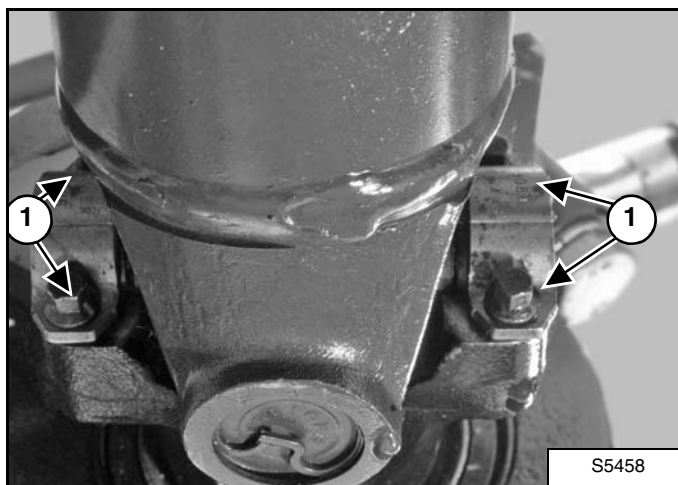


Bobcat®

DRIVE SHAFT

Removal And Installation

Figure 40-70-1



Remove the four drive shaft mounting bolts (Item 1) [Figure 40-70-1] from both ends of the drive shaft.

Installation: Tighten the mounting bolts to 24 - 30 ft.-lb. (33 - 41 N•m) torque.

Slide the drive shaft out of the machine.