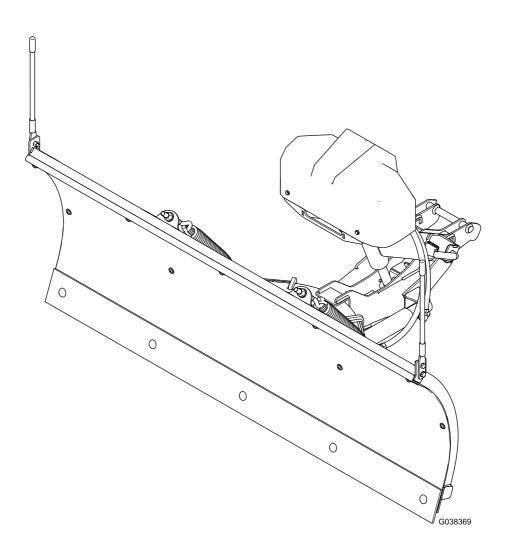


P.O. Box 787 Iron Mountain, MI 49801 United States

Owner's Manual

Straight-Blade Plow for ATV or UTV





This product complies with all relevant European directives; for details, please see the separate product specific Declaration of Conformity (DOC) sheet.

A WARNING

CALIFORNIA Proposition 65 Warning

This product contains a chemical or chemicals known to the State of California to cause cancer, birth defects, or reproductive harm.

Introduction

Note: This manual is used for the assembly of all BOSS ATV and UTV straight-blade plows. Illustrations may vary.

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Safety

Improper use or maintenance by the operator or owner can result in injury. To reduce the potential for injury, comply with these safety instructions and always pay attention to the safety-alert symbol **A**, which means: *Caution, Warning*, or *Danger*—personal safety instruction. Failure to comply with the instruction may result in personal injury or death.

Preparation

- Read the *Owner's Manual* before operating or servicing the plow.
- Always follow the vehicle manufacturer's recommendations relating to snowplow installation. For recommended vehicle models, refer to the BOSS Snowplow Application Chart and Selection Guide.
- Follow all operator safety instructions and age restrictions found in your ATV/UTV *Owner's Manual.*
- Ensure that only trained personnel install and perform maintenance on the equipment.
- Keep your hands, feet, and clothing away from moving parts and mounting points.
- Ensure the plow is properly attached to the vehicle before moving it.
- Always wear appropriate personal protective equipment when loading, unloading, and servicing the plow. Wear substantial, slip-resistant footwear, cold-weather clothing, safety glasses, and dust protection.

Operation

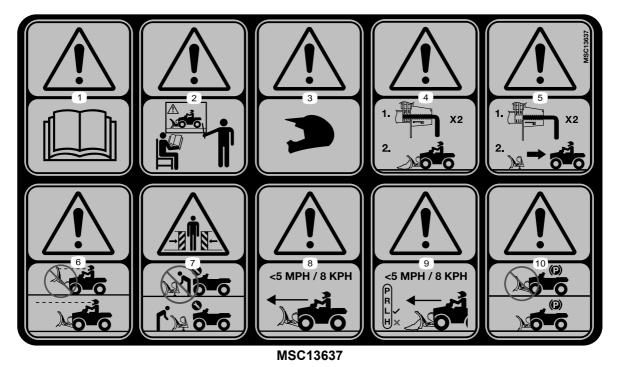
- Use a 500 kg (1/2 ton) minimum lifting device to move heavy plow components.
- When transporting the vehicle, position the plow so as not to block your vision.
- When operating a UTV mounted plow:
 - Do not exceed 8 km/h (5 mph) when changing the blade position.
 - Do not exceed 38 km/h (24 mph) when transporting the plow.
 - Do not exceed 22 km/h (14 mph) when plowing.
- When operating an ATV mounted plow:
 - Do not exceed 8 km/h (5 mph) when changing the blade position.
 - Do not exceed 8 km/h (5 mph) when transporting the plow.
 - **Do not** exceed 8 km/h (5 mph) when plowing.
 - Always lower the blade when the vehicle is not in use.
- **Never** put any part of your body between the plow and the vehicle.
- **Do not** climb or ride on the plow.
- Do not operate on steep inclines.

- Do not operate the machine while ill, tired, or under the influence of alcohol or drugs.
- Always wear your seat belt and other protective equipment while operating the plow.
- Ensure that you do not exceed the front gross-axle-weight rating (FGAWR), rear gross-axle-weight rating (RGAWR), and the gross-vehicle-weight rating (GAWR) at any time.

Safety and Instructional Decals



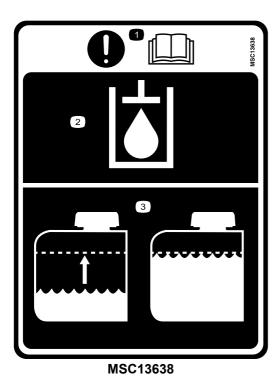
Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or missing.



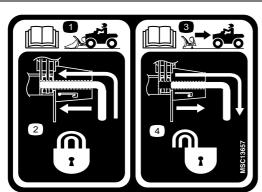
- 1. Warning—read the Owner's Manual.
- 2. Warning—all operators should be trained before operating the machine.
- 3. Warning—wear your helmet while operating the plow.
- 4. Warning—coupler spring pins must be locked before plowing.
- 5. Warning—coupler spring pins must be unlocked to remove the plow.
- 6. Warning-do not block driver visibility with the plow.
- 7. Crushing hazard—do not stand between the plow and vehicle during maintenance.
- Warning—do not exceed 8 km/h (5 mph) when transporting the plow.
- 9. Warning—do not exceed 8 km/h (5 mph) when plowing; keep the vehicle in low when plowing.
- 10. Warning—lower the plow when the vehicle is not in use.

This may require weighing the vehicle and adding ballast as necessary. It may also limit the payload capacity of the vehicle.

• The sport duty UTV straight-blade plow is for personal, non-commercial use only. Using the plow in a commercial setting voids the plow warranty.

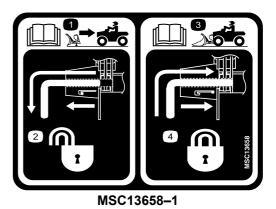


- 1. Important—read the Owner's Manual.
- 3. Fill the hydraulic fluid to the fill line.
- 2. Hydraulic fluid



MSC13657-1

- 1. Read the *Owner's Manual* for information on attaching the plow.
- 2. Coupler spring pin—lock
- 3. Read the *Owner's Manual* for information on removing the plow.
- Coupler spring pin—unlock



- 1. Read the *Owner's Manual* for information on removing the plow.
- 3. Read the *Owner's Manual* for information on attaching the plow.
- 2. Coupler spring pin—unlock
- 4. Coupler spring pin—lock

MSC13665

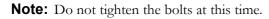
- 1. Warning—the kickstand must be raised before plowing.
- 2. Warning—the kickstand must be lowered before removing the plow.

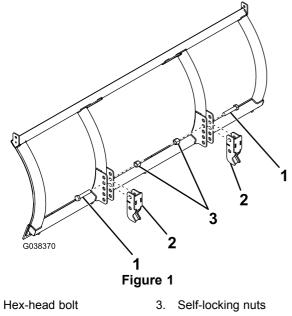
Setup

Determine the left and right sides of the machine from the normal operating position.

Installing the Push Frame and Coupler

1. Center the 2 blade mounting brackets on the plow blade and loosely secure them using 2 hex-head bolts and 2 self-locking nuts as shown in Figure 1.

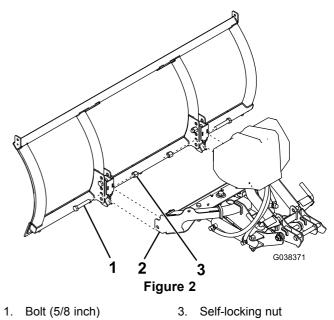




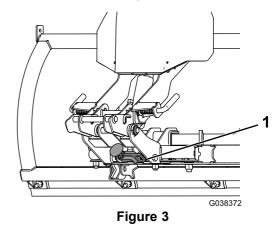
2. Mounting bracket

1.

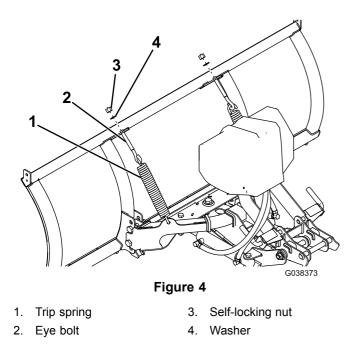
2. Attach the push-frame assembly to the plow blade using 2 hex-head bolts and self-locking nuts as shown in Figure 2.



- 2. Push-frame assembly
- 3. Torque all 4 bolts to 153 N·m (113 ft-lb).
- 4. Pull the kickstand handle outward and rotate it, to lower the kickstand (Figure 3).



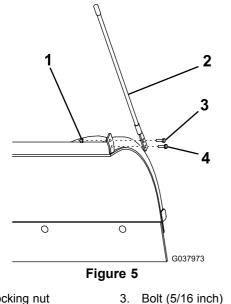
- 1. Kickstand handle
- 5. Hook the 2 trip springs through the holes on the push-frame assembly (Figure 4).



- 6. Hook the other ends of the trip springs to 2 eyebolts (Figure 4).
- Insert the threaded end of the eyebolts through the holes on the plow blade and secure them using 2 washers (1/2 inch) and 2 self-locking nuts (Figure 4).
- Tighten the self-locking nuts until there is a gap of 0.8 mm (1/32 inch) between the trip spring coils.

Installing the Blade Guides

Attach the blade guides to the plow blade using 2 bolts (5/16 inch), 2 self-tapping bolts, and 2 self-locking nuts (Figure 5).

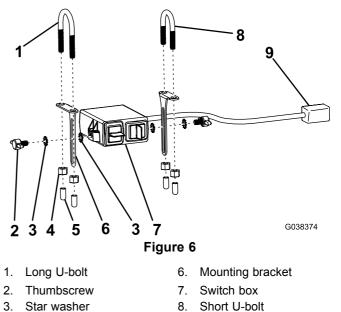


- 1. Self-locking nut
- 2. Blade guide
- Bolt (5/16 Inch)
 Self-tapping bolt

Mounting the Plow Controller

Mounting the ATV Controller

- 1. Park the machine on a level surface, shut off the engine, wait for all moving parts to stop, engage the parking brake, and remove the key from the ignition switch.
- 2. Secure 1 of the mounting brackets along the left side of the vehicle control cluster using the long U-bolt and 2 self-locking nuts (1/4 inch) as shown in Figure 6.



- 9. Controller conector
- 5. Rubber end cap

Self-locking nut

4.

- 3. Secure the other mounting bracket along the right side of the vehicle control cluster using the short U-bolt and 2 self-locking nuts (1/4 inch) as shown in Figure 6.
- 4. Secure the switch box to the mounting brackets using 4 star washers and 2 thumb screws and adjust it to the desired position (Figure 6).

A DANGER

The controller could cause serious injury if contacted during a crash.

Mount the controller in a location that vehicle occupants will not contact during a crash.

- 5. Slide the 4 rubber end caps over the ends of the U-bolts (Figure 6).
- 6. Route the switch box wire along the existing vehicle wiring down the handlebar and steering stem, and secure it under the central part of the fender using cable ties.

Mounting the UTV Controller

Note: Mount the controller in the cab in a dry area where it does not interfere with vehicle operation or visibility.

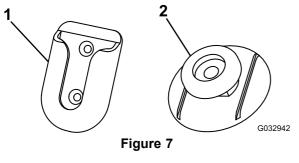
Important: Do not install the swivel mount when temperatures are below 16°C (60°F).

A DANGER

The controller could cause serious injury if contacted during a crash.

Mount the controller in a location that vehicle occupants will not contact during a crash.

- 1. Park the machine on a level surface, shut off the engine, wait for all moving parts to stop, engage the parking brake, and remove the key from the ignition switch.
- 2. Determine the mounting location for the controller.
- Clean the location with the provided alcohol wipe and 3. dry it with a cloth or paper towel.
- Clean the back of the swivel mount (Figure 7) with the 4. alcohol wipe and then dry it.



1. Swivel mount

2. Mounting tab

- Remove the backing from 1 side of the adhesive and 5. apply it to the back of the swivel mount.
- Remove the remaining backing from the swivel-mount 6. adhesive and press the swivel mount to the clean area of the dashboard for 30 seconds.

Important: Once the mount is placed, you cannot remove it without destroying the adhesive.

- 7. Clean the back of the controller with the alcohol wipe and then dry it.
- 8. Remove the backing from 1 side of the adhesive and apply it to the back of the mounting tab (Figure 7).
- Remove the remaining backing from the controller 9. adhesive and press the mounting tab to the controller for 30 seconds.
- 10. Let the swivel mount rest unused for 72 hours before sliding the controller into the mounting bracket.

Important: Mounting the controller immediately may cause the adhesive to fail.

Installing the Wire Harness

A DANGER

Vehicle engines contain moving parts and can become extremely hot, capable of causing severe burns and serious bodily harm.

Shut off the engine and allow it sufficient time to cool down before installing this kit.

A DANGER

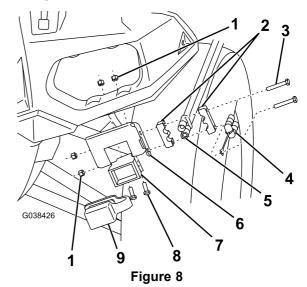
Vehicle batteries can cause dangerous electrical shocks that could lead to severe burns or death.

Disconnect your battery before installing this kit.

Note: Apply dielectric grease to all electrical connections.

- 1. Park the machine on a level surface, shut off the engine, wait for all moving parts to stop, engage the parking brake, and remove the key from the ignition switch.
- Mount the vehicle-side, wire-harness plow connector 2. to the left side of the front bumper using the control-harness mounting-bracket and 2 cap screws and self-locking nuts (Figure 8).

Note: You will have to drill 2 holes in the front bumper to mount the bracket.



- 1. Self-locking nut
- 2 Power/Ground connector bracket
- 3. Long olt

4.

8. Short bolt Control harness dust cap 9.

7. Plow connector

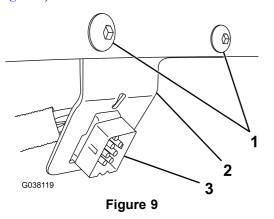
bracket

Control harness mounting

- Power/Ground dust cap 5. Power/Ground connector
- Mount the power/ground connector to the control 3. harness mounting bracket (Figure 8).

6.

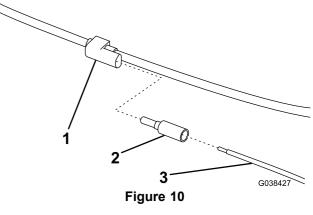
- 4. Secure the dust caps to the wire harness plugs and mounting bracket.
- 5. Route the cables along the vehicle frame toward the battery and controller connector and secure them with cable ties.
- 6. If you are installing the plow on an ATV, proceed to step 9. If you are installing the plow on a UTV, proceed to the next step.
- 7. Pull the plow controller connector into the vehicle cab (Figure 9).



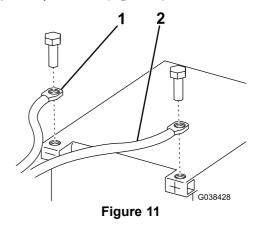
3. Plow controller connector

- 1. Self-tapping bolts
- 2. Dash bracket
- 8. Mount the plow controller connector to the dash bracket, and secure the bracket to the left of the steering wheel using 2 self-tapping bolts (Figure 9).
- 9. Plug the plow controller into the plow controller connector.
- 10. Locate a keyed 12 V+ ignition source on the vehicle wire harness and identify the corresponding connector in your loose parts.
- 11. Slide the appropriate connector onto the end of the black/red wire and crimp the connector to secure it.
- 12. Connect the black/red wire to a keyed 12 V+ ignition source (Figure 10).

Note: Connecting the wire to a source that is not keyed can cause the battery to drain.



- 1. Keyed 12 V+ ignition 3. Black/Red wire source
- 2. Connector
- 13. Connect the black power/ground cable to the negative (-) battery terminal (Figure 11).

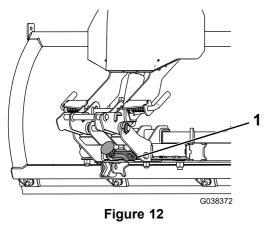


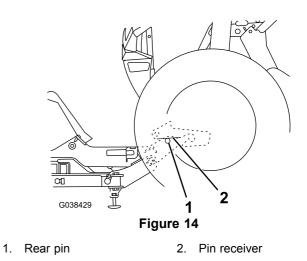
- 1. Black power/ground cable 2. Red power/ground cable
- 14. Connect the red power/ground cable to the positive (+) battery terminal (Figure 11).
- 15. Secure all wiring in a position that avoids hot or moving parts using cable ties.

Adjusting the Kickstand

Note: The vehicle undercarriage must be installed before beginning this procedure.

1. Pull the kickstand handle outward and rotate it, to lower the kickstand (Figure 12).



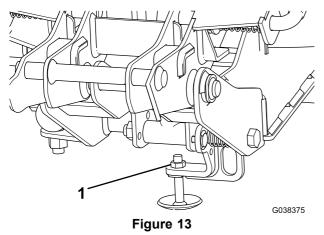


5. Tighten the jam nut (Figure 13).

Mounting the Snowplow

Refer to Mounting the Snowplow (page 9) to mount the plow.

- 1. Kickstand handle
- 2. Align the vehicle to the plow as if mounting the plow; refer to Mounting the Snowplow (page 11).
- 3. Loosen the jam nut on the kickstand (Figure 13).



- 1. Jam nut
- 4. Rotate the kickstand leg until the coupler rear pin contacts the pin receiver as shown in Figure 14.

Note: If the rear pin can't reach the pin receiver, use the longer kickstand leg.

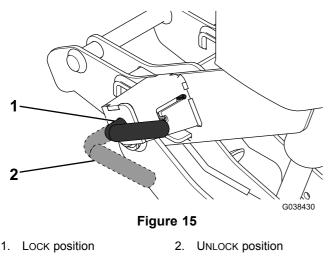
Product Overview

Controls

Become familiar with all the controls before you operate the plow.

Couplers

The couplers secure the plow to the vehicle push beam. Turn the levers toward the coupler tower to turn on the spring pins. Turn the levers away from the coupler tower to turn off the spring pins.



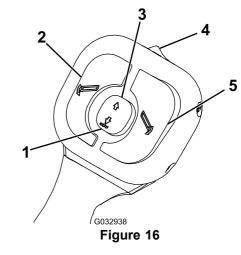
Switch Box Controller (for the ATV)

The switch box controller operates the movements of the snowplow.

- Raise/Lower switch-pressing upward raises the plow blade; pressing downward lowers the plow blade. Lowering the blade will also activate the Float feature, allowing the plow blade to follow the contour of the ground.
- Left/Right switch—pressing left angles the plow blade to the left; pressing right angles the plow blade right.

SmartTouch2 Controller (for the UTV)

The SmartTouch2 controller operates the movement of the snowplow.



- 1. Lower/Float button 4. On/Off switch 2. Left button
 - 5. Right button
- 3. Raise button
- On/Off switch-turns the plow controller on and off. A green light illuminates when the controller is on.

Note: Turn off the controller when not in use to prevent accidental activation of the plow.

- Raise button-raises the plow blade. Pressing the button quickly twice automatically raises the blade.
- Lower/Float button-lowers the plow blade and activates the Float feature. Pressing the button quickly twice automatically lowers the blade and activates the Float feature, allowing the plow blade to follow the contour of the ground. A red light illuminates when the Float feature is active.
- Left button-angles the plow blade to the left
- Right button-angles the plow blade to the right
- Sleep mode—If you do not use the controller for 20 minutes, it enters sleep mode and the controller lights flash green and red. Turn the controller off to deactivate the sleep mode.

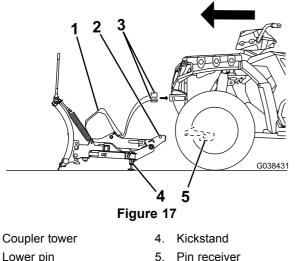
Operation

Determine the left and right sides of the machine from the normal operating position.

Mounting the Snowplow

Note: The vehicle must be running before starting this procedure.

- 1. Activate the FLOAT feature on your plow controller.
- Line up the vehicle with the snowplow and drive 2. forward until the lower pin contacts the push-beam pin receiver (Figure 17).



2. Lower pin

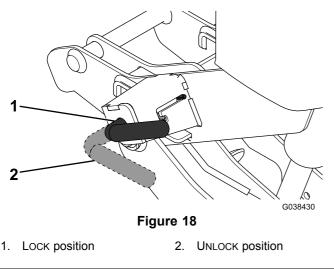
1.

- 3. Wire harness
- Set the parking brake. 3.

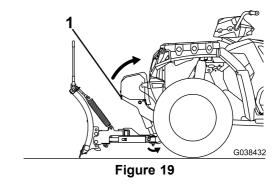
Note: If your vehicle does not have a parking brake, chock the wheels.

5.

4. Turn the levers on the couplers to the ATTACH position (Figure 18).



- 5. Remove the electrical-plug dust-covers and connect the plow wire harness to the vehicle wire harness (Figure 17).
- Using the coupler handle, push the coupler tower 6. upward until the coupler spring pins snap in (Figure 19).



- 1. Coupler handle
- Ensure that both coupler spring pins have fully engaged 7. the coupler (Figure 18).

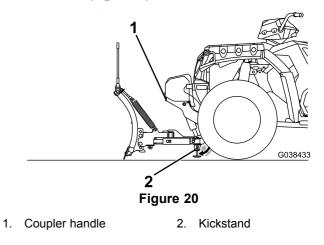
Note: Move the coupler tower until the spring pins engage completely.

8. Pull the kickstand handle outward and raise the kickstand (Figure 19).

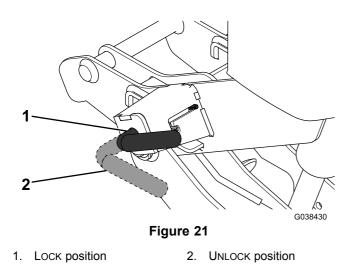
Removing the Snowplow

Note: The vehicle must be running before starting this procedure. Set the parking brake. If your vehicle does not have a parking brake, chock the wheels.

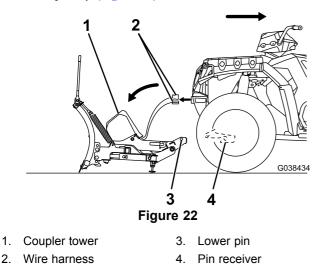
- Activate the FLOAT feature on the plow controller. 1.
- 2. Pull the kickstand handle outward and lower the kickstand (Figure 20).



3. While putting upward pressure on the coupler handle, turn the levers on the couplers to the OFF position (Figure 21).



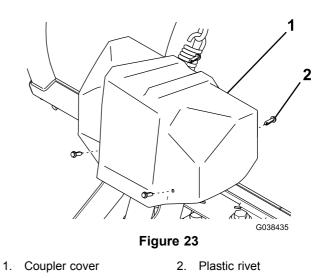
4. Using the coupler handle, lower the coupler tower completely (Figure 22).



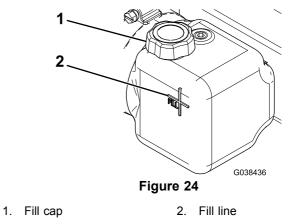
- 5. Disconnect the plow wire harness from the vehicle wire harness and secure the electrical-plug dust-covers (Figure 22).
- 6. Release the parking brake and slowly back the vehicle away from the snowplow.

Checking the Hydraulic Fluid Level

- 1. With the plow mounted to the vehicle, lower the plow to the ground and ensure that it is in the straight position.
- 2. Remove the 4 plastic rivets securing the coupler cover to the coupler, and remove the cover (Figure 23).



3. Ensure that the fluid comes up to the fill line on the side of the tank (Figure 24). If it does not, add more hydraulic fluid; refer to Adding Hydraulic Fluid (page 13).

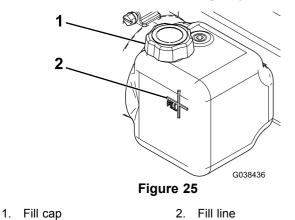


Adding Hydraulic Fluid

1. Ensure that the lift cylinder is completely collapsed.

Important: Do not manually pull the tower down. This can cause an air pocket to form in the hydraulic system and fluid to spill out of the internal filler cap.

2. Clean the area around the fill cap (Figure 25).



- 3. Remove the fill cap from the hydraulic reservoir (Figure 25).
- 4. Slowly fill the reservoir with BOSS high-performance hydraulic fluid to the fill line on the outside of the tank (Figure 25).

Note: The reservoir holds approximately 0.48 L (1/2 US qt) of hydraulic fluid.

- 5. Install the previously removed fill cap.
- 6. Start the vehicle and operate the plow in its full range of movement.
- 7. Stop the vehicle, check the hydraulic-fluid level, and replenish the fluid if necessary; refer to Checking the Hydraulic Fluid Level (page 12).
- 8. Install the previously removed coupler cover.

Maintenance

Determine the left and right sides of the machine from the normal operating position.

Checking the Hydraulic Lines and Hoses

Service Interval: Before each use or daily

A WARNING

Hydraulic fluid escaping under pressure can penetrate the skin and cause injury.

- Ensure that all hydraulic fluid hoses and lines are in good condition and all hydraulic connections and fittings are tight before applying pressure to the hydraulic system.
- Keep your body and hands away from pin-hole leaks or nozzles that eject high-pressure hydraulic fluid.
- Use cardboard or paper to find hydraulic leaks.
- Safely relieve all pressure in the hydraulic system before performing any work on the hydraulic system.
- Get immediate medical help if fluid is injected into skin.

Check the hydraulic lines and hoses daily for leaks, kinked lines, loose mounting supports, wear, loose fittings, weather deterioration, and chemical deterioration. Make all necessary repairs before operating.

Storage

Storing the Plow

- 1. Grease any exposed chrome or nitro bar on the lift cylinders.
- 2. Drive the snowplow to your storage location and remove the plow; refer to Removing the Snowplow (page 11).
- 3. Pull the coupler tower forward until the lift cylinder is completely compressed.
- 4. Apply dielectric grease to all of the wire harness connectors and install the dust caps.
- 5. Lightly sand and use touch-up paint on painted areas that are scratched, chipped, or rusted.
- 6. Loosen the trip-return springs.
- 7. Grease the coupler spring pins.

Removing the Plow from Storage

- 1. Check the plow for cracked welds.
- 2. Check the torque of all fasteners, pins, retainers, nuts, and bolts; tighten as necessary.
- 3. Check the hydraulic lines and hoses for cracks or leaks.
- 4. Check the cutting edge for wear.
- 5. Tighten the trip-return springs.
- 6. Lightly sand and use touch-up paint on painted areas that are scratched, chipped, or rusted.
- 7. Grease the coupler spring pins.
- 8. Apply dielectric grease to all of the wire harness connectors.
- 9. Attach the plow to the vehicle; refer to Mounting the Snowplow (page 11).
- 10. Move the plow through its range of motion to check the hydraulic cylinder rods.

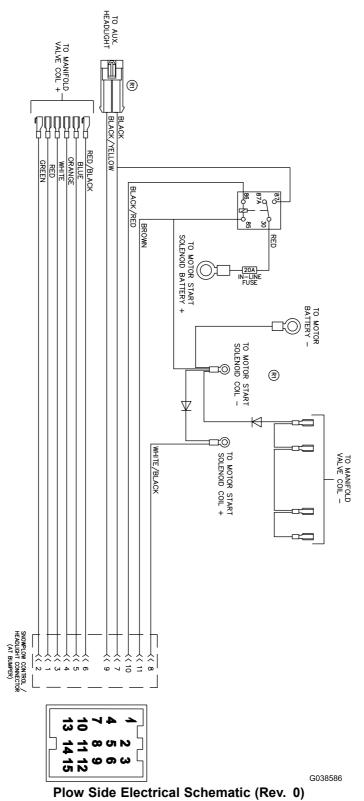
Troubleshooting

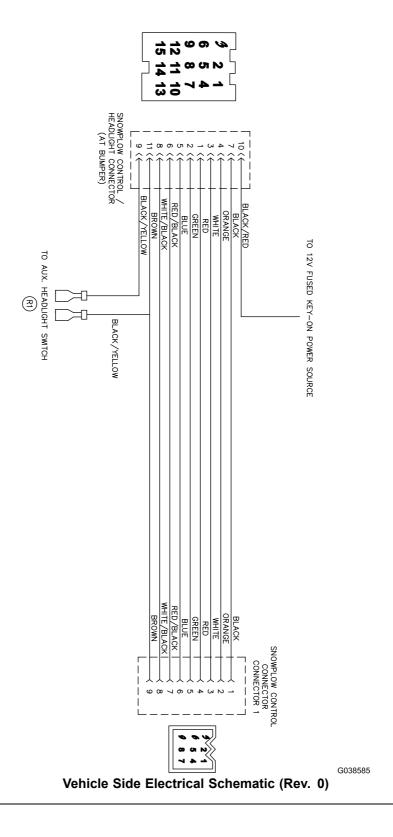
Problem	Possible Cause	Corrective Action
The pump motor does not run.	 Check that the power/ground cables and control cables are connected properly. 	 Connect the cables if they are not connected.
	2. Check for voltage at the pump motor while the ignition switch is on and the RAISE button is pressed on the controller.	 If voltage is present, the pump motor has failed or the pump has seized. Motor brushes may be replaced, otherwise replace the pump/motor assembly.
	 Check for power to the solenoid by testing for voltage between both large terminals and ground. 	 If voltage is not present between one large terminal and ground, the cable between the battery and the solenoid is disconnected or broken.
	 Check for voltage between the other large terminal of the solenoid and ground while jumping power to the small terminal with the white/black wire. 	 If no voltage is present, the solenoid has failed and must be replaced. If voltage is present, the wire from the small terminal of the solenoid to ground may be disconnected or broken.
	5. Test the power to the controller by checking the voltage between the black wire and ground at the white 9-pin connector.	 If no voltage is present, power from the relay has become disconnected. If voltage is present, check the wiring and controller switches.
The pump continues to run while the switch is in neutral.	 Disconnect the controller and turn the ignition on. 	 If the pump continues to run, the solenoid has failed in the closed position. Quickly remove power to the pump by disconnecting the power/ground cables to the plow. Replace the solenoid.
	2. Disconnect the controller and turn the ignition on.	2. If the pump stops running, check the wiring of the controller for a short between the black and white/black wire in the controller, or a failed switch.
The plow does not lower.	 Check that the power/ground cables and control cables are connected properly. 	 Connect the cables if they are not connected.
	2. Check the flow-control valve.	 If the flow-control valve is completely closed, place the controller in neutral, then open the flow-control valve.
	3. Check the wiring on the valve block for proper connections.	 Refer to the wiring diagram included with your Owner's Manual.
	 Check for voltage between the solenoid valve terminal and ground while the ignition switch is on and the controller is in the FLOAT position. 	4. If voltage is present, the solenoid valve or valve coil has failed. Replace the valve or valve coil.
	5. Test the power to the control box by checking the voltage between the black wire and ground at the white 9-pin connector.	 If no voltage is present, power from the relays has become disconnected. If voltage is present, check the wiring and switch off the controller.
The plow lowers too fast.	1. Check the flow-control valve.	 Close the flow-control valve to the desired drop speed.

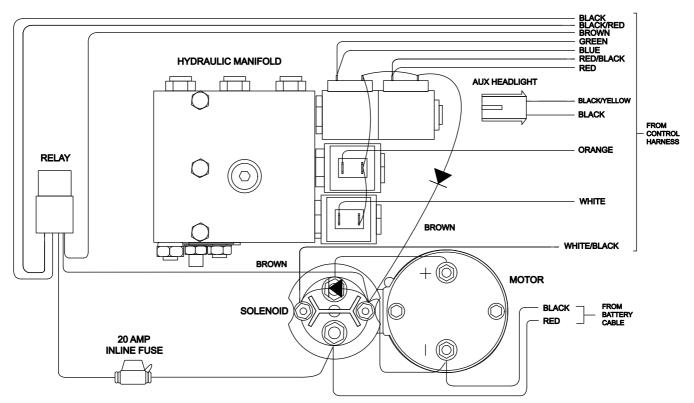
Problem	Possible Cause	Corrective Action
The plow does not raise or raises slowly.	1. Check the hydraulic-fluid level.	 The hydraulic-fluid level should be within 2 cm (3/4 inch) of the top of the reservoir when lowered and in the V position.
	 Check that the power/ground cables and the control cable are connected properly. 	 Connect the cables if they are not connected.
	3. Check the wiring on the valve block for proper connections.	 Refer to the manifold wiring diagram included with your Owner's Manual.
	4. Load a test battery.	 Replace the battery if it is weak or defective.
	 Check the pressure at the pressure port of the pump. 	5. If the pressure is less than 17,237 kPa (2,500 psi) at the end of the lift, the motor brushes may be defective, the pump pressure relief valve may be contaminated, damaged, or set to less than 17,237 kPa (2,500 psi), or the pump may be worn.
	 Check the RAISE control solenoid valve. 	If the RAISE solenoid valve is not opening completely, replace it.
The plow angles while plowing.	 Check the ANGLE control solenoid valve. 	 If the ANGLE control solenoid value is contaminated, clean or replace it.
	2. Check that the pressure relief valve is not contaminated.	 If the pressure relief valve is contaminated, clean or replace it.
	3. Check that the pressure relief valve is set correctly.	3. If the pressure is set too low, contact your authorized BOSS dealer.
The plow does not angle or angles slowly.	1. Check the hydraulic-fluid level.	 The hydraulic-fluid level should be within 2 cm (3/4 inch) of the top of the reservoir when lowered.
	 Check that the power/ground cables and the control cable are connected properly. 	 Connect the cables if they are not connected.
	 Check the wiring on the valve block for proper connections. Load a test battery. 	 Refer to the manifold wiring diagram included with your <i>Owner's Manual</i>. Replace the better if it is weak or
		 Replace the battery if it is weak or defective.
	5. Check the ANGLE control solenoid valve.	5. If the ANGLE solenoid valve is not opening completely, replace it.
Oil leaks from the lift cylinders.	1. Inspect the fittings and O-rings.	 Tighten loose fittings. See your authorized BOSS dealer for a seal kit.
	2. Check the rod condition.	2. If the rods are pitted or rough, polish them with a copus cloth or extra fine steel wool.
The vehicle battery dies when all of the switches are in the NEUTRAL position.	1. Inspect the controller wiring for a short.	1. If there is a short, repair or replace the controller.
	2. Inspect the wire harness for a short.	 If there is a short, repair or replace the wire harness.
	3. Inspect the valve coils for a short.	3. If there is a short, replace the valve coils.
The plow does not clean up snow from low areas.	1. The controller is not in the FLOAT position.	1. Activate the FLOAT feature on the controller.
The vehicle battery dies when the vehicle is turned off.	 Verify that the plow was installed to a keyed fuse source. 	 Refer to the wiring diagram included with your Owner's Manual.

Problem	Possible Cause	Corrective Action
Fluid is running out of the fill cap of the hydraulic pump.	 Power the light tower down. Do not pull the tower down. 	 Disconnect the plow and adjust the hydraulic-fluid level.
	2. The terrain is too steep.	2. Avoid steeply sloped areas.
	3. The pump reservoir is overfilled.	 The hydraulic fluid level should be within 2 cm (3/4 inch) of the top of the reservoir.
	 The plow is hitting snowbanks too hard. 	4. Do not plow recklessly.
The pump chatters when raising the plow or angling the blade.	1. Check the hydraulic-fluid level.	 The hydraulic-fluid level should be within 2 cm (3/4 inch) of the top of the reservoir when lowered.

Schematics







G038587

Wire Color	Function	
Black	12V+ to Control	
Black/Red	12V+ from key-on power source	
Brown	Ground	
Green	Blade Left	
Blue	Blade Left	
Red/Black	Blade Right	
Red	Blade Right	
Orange	Lower	
White	Raise	
White/Black	Motor Start Solenoid	
Black/Yellow	Auxiliary Headlight Ground	
Hydraulic Manifold (Rev. 0)		

Notes:

Notes:

BOSS Products Commercial Warranty

What this warranty covers:

This warranty covers defects in material and workmanship except as set forth below.

Who is covered:

The original purchaser from an authorized dealer.

For how long:

Complete Product: 2 years from the date of purchase. **Labor:** 2 years from the date of purchase for complete product. **Parts:** 1 year from the date of purchase. (no Labor)

What BOSS Products will do:

BOSS Products will, at its sole option, repair or replace defective parts at no charge.

What you must do for warranty service:

To obtain warranty service, purchaser must return the defective product to any authorized BOSS Products dealer (preferably the one from whom the product was purchased) within the warranty period. Purchaser must be able to verify the original purchase date. All transportation costs to and from the dealer will be the responsibility of the purchaser. To locate the authorized BOSS dealer nearest to you, call toll free: (800) 286-4155.

What is not covered:

- 1. Expendable parts such as hoses, plow shoes, cutting edges, pins, nuts, bolts, blade guides, etc.
- 2. Products repaired or altered by anyone other than an authorized BOSS Products dealer.
- 3. Products which have been subject to misuse, negligence, accident, improper installation, maintenance, care, or storage.
- 4. Products mounted on vehicles other than those listed in the BOSS Snowplow Application Chart and Selection Guide.
- 5. BOSS Products does not assume liability for damage to your motor vehicle resulting from the attachment or use of any BOSS products. Vehicle risk is the sole responsibility of the purchaser.

Limits of BOSS Products Liability are:

BOSS Products' liability is expressly limited to repair or replacement of defective parts. BOSS Products shall not be liable for consequential, incidental, or contingent damages whatsoever, even if damages are caused by the negligence or fault of BOSS Products. The foregoing warranties are exclusive and in lieu of all other express and implied warranties including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

This warranty does not apply if you purchased your product for personal, family, or household use. In this case, refer to the BOSS Products Limited Consumer Warranty.

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(2016-2017)

BOSS Products Consumer Warranty

What this warranty covers:

This warranty covers defects in material and workmanship except as set forth below.

Who is covered:

The original retail purchaser of a BOSS product who purchases it for personal, family, or household use.

For how long: Complete Product: 2 years from the date of purchase. Labor: 2 years from the date of purchase for complete product. Parts: 1 year from the date of purchase. (no Labor)

What BOSS Products will do:

BOSS Products will, at its sole option, repair or replace defective parts at no charge.

What you must do for warranty service:

To obtain warranty service, purchaser must return the defective product to any authorized BOSS Products dealer (preferably the one from whom the product was purchased) within the warranty period. Purchaser must be able to verify the original purchase date. All transportation costs to and from the dealer will be the responsibility of the purchaser. To locate the authorized BOSS dealer nearest to you, call toll free: (800) 286-4155.

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Limits of BOSS Products Liability are:

BOSS Products' liability is expressly limited to repair or replacement of defective parts. BOSS Products shall not be liable for consequential, incidental, or contingent damages whatsoever, even if damages are caused by the negligence or fault of BOSS Products. The foregoing warranties are exclusive and in lieu of all other express and implied warranties including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

State laws:

Some states do not allow exclusion of incidental or consequential damages or the limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have the other rights which vary from state to state.

This warranty does not apply if you purchased your product for personal, family, or household use. In this case, refer to the BOSS Products Limited Consumer Warranty.

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