

# Scrape Maxx™ Down Force Kit

## HD, RD, LT, SPEEDWING™, RDV™ & POWER PLOW™ Snowplows

### INSTALLATION & OPERATING INSTRUCTIONS

#### SAFETY PRECAUTIONS

##### WARNING

Do not exceed GVWR or GAWR, including blade and ballast. The rating label is found on the driver-side vehicle door cornerpost.

##### WARNING

The driver shall keep bystanders clear of the blade when it is being raised, lowered, or angled. Do not stand between vehicle and blade or within 8 feet of a moving blade. A moving or falling blade could cause personal injury.

##### WARNING

To prevent accidental movement of the blade, always turn the control OFF whenever the snowplow is not in use. The power indicator light will turn OFF.

##### CAUTION

Read this document before installing the Scrape Maxx down force kit.

##### CAUTION

Use standard methods and practices when attaching snowplow and installing accessories, including proper personal protective safety equipment.

#### HYDRAULIC SAFETY

##### WARNING

Hydraulic fluid under pressure can cause skin injection injury. If you are injured by hydraulic fluid, get medical attention immediately.

##### CAUTION

Do not mix different types of hydraulic fluid. Some fluids are not compatible and may cause performance problems and product damage.

Always inspect hydraulic components and hoses before using. Replace any damaged or worn parts immediately.

If you suspect a hose leak, DO NOT use your hand to locate it. Use a piece of cardboard or wood.

Loosen hydraulic components slowly to relieve any residual pressure.

## INSTALLATION INSTRUCTIONS

### ⚠ WARNING

The driver shall keep bystanders clear of the blade when it is being raised, lowered, or angled. Do not stand between vehicle and blade or within 8 feet of a moving blade. A moving or falling blade could cause personal injury.

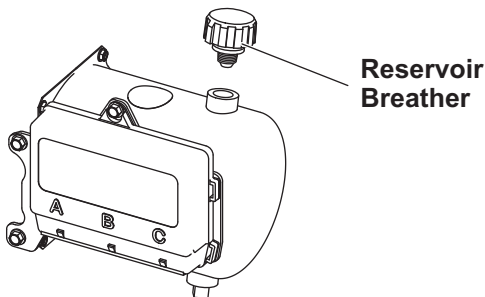
### ⚠ WARNING

Keep 8 feet clear of the blade when it is being raised, lowered, or angled. Do not stand between vehicle and blade or directly in front of the blade. If the blade hits or drops on you, you could be seriously injured.

### ⚠ CAUTION

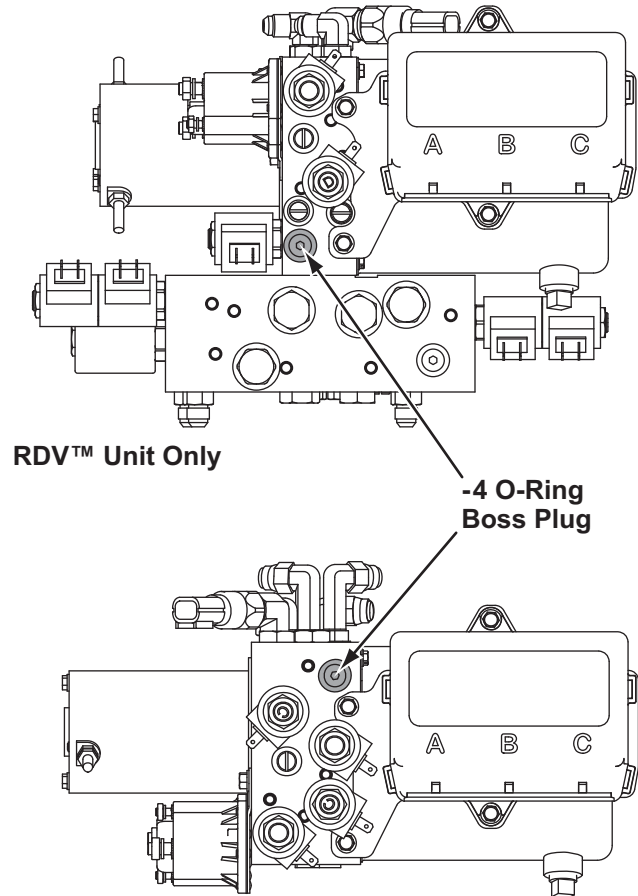
Install this kit with the snowplow attached to the vehicle, or with the headgear securely supported in the vertical position. Failure to follow this step will result in release of pressurized hydraulic fluid and unexpected headgear movement.

1. Park the vehicle on a smooth, level, hard surface, such as concrete. Move the blade to center position and lower it to the ground.
2. Activate the FLOAT mode by holding the LOWER button (hand-held control) or holding the lever in "LOWER" position (joystick control) for 3/4 second. Turn the cab control OFF.
3. Remove the hydraulic unit cover. Remove the reservoir breather.

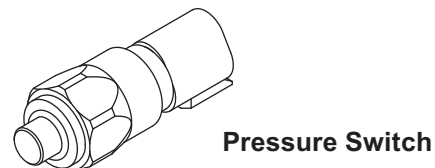


**NOTE:** Loosen breather slowly to relieve any pressure in the reservoir.

4. Locate the -4 O-ring boss plug on the front of the hydraulic unit.



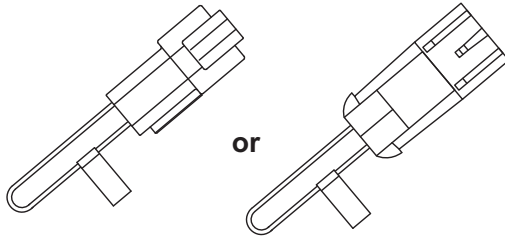
5. Remove the O-ring boss plug. (Retain for reinstallation if the Scrape Maxx™ accessory is later uninstalled.)
6. Install the pressure switch in place of the O-ring boss plug. Gripping the hex portion only, tighten the pressure switch to 10–13 ft-lb.



7. Reinstall the reservoir breather.

8. Locate the black connector with two gray wires on the harness connected to port B of the plow module. Remove the jumper plug from the connector. (Retain the plug for reinstallation if the Scrape Maxx™ accessory is later uninstalled.)

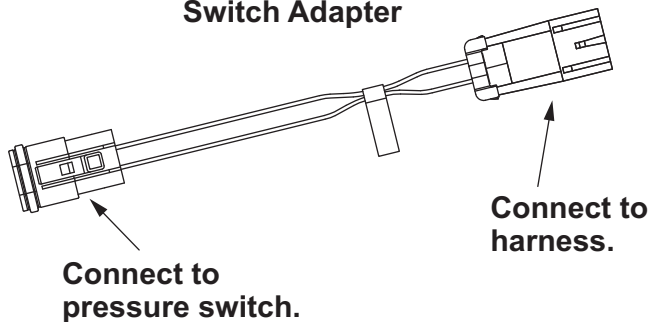
#### Jumper Plug



9. **If the harness connector is triangular**, plug the connector directly onto the pressure switch installed in Step 6.

**If the harness connector is oval shaped**, install the supplied switch adapter between the harness connector and the pressure switch.

#### Switch Adapter



10. Turn the cab control ON. Raise and lower the blade several times to purge the lift ram.
11. Activate the Scrape Maxx down force mode according to the Operating Instructions that follow. The hydraulic unit will run momentarily to pressurize the lift ram and then turn OFF.

#### ⚠ WARNING

**Hydraulic fluid under pressure can cause skin injection injury. If you are injured by hydraulic fluid, get medical attention immediately**

12. Inspect all hydraulic connections for leaks. If you suspect a hose leak, DO NOT use your hand to locate it. Use a piece of cardboard or wood. Replace the hydraulic unit cover.
13. Apply the Scrape Maxx label to the headgear below the SECURITY GUARD™ label on the driver's side.

### UNINSTALLING THE Scrape Maxx KIT

If the Scrape Maxx pressure switch is removed from the snowplow, reinstall the retained -4 O-ring boss plug and jumper plug removed in Steps 5 and 8 of the Installation Instructions.

### OPERATING INSTRUCTIONS

Do not enable the Scrape Maxx mode until the pressure switch has been installed.

#### Enable or Disable Scrape Maxx Mode

1. Turn the vehicle ignition ON.
2. With the control OFF, press and hold the #4 button (hand-held control) or hold the lever in the #4 position (joystick control).
3. While still holding the #4 button or joystick lever, turn the control ON. The red POWER indicator light will turn ON.
4. Continue holding the #4 button or joystick lever until the green FLOAT light flashes twice.
5. Release the #4 button or joystick lever. The Scrape Maxx mode is now enabled/disabled.

Once enabled, the Scrape Maxx mode will be available whenever the control is ON.

**To activate the Scrape Maxx mode while plowing**, press and hold the LOWER button (hand-held control) or hold the lever in the "LOWER" position (joystick control) until the green FLOAT light flashes.

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