FORM NO. 3318–823

TORO®

Wheel Horse®

48” Snow Blade

for

Classic Graden Tractors

Model No. 79350 – 8900001 & Up

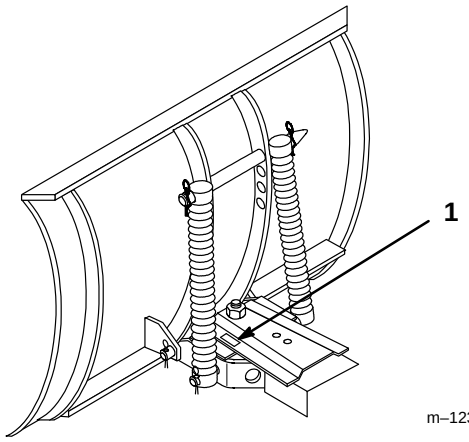
Operator’s Manual

IMPORTANT: Read this manual carefully. It contains information about your safety and the safety of others. Also become familiar with the controls and their proper use before you operate the product.

Introduction

We want you to be completely satisfied with your new product, so feel free to contact your local Authorized Service Dealer for help with service, genuine replacement parts, or other information you may require.

Whenever you contact your Authorized Service Dealer or the factory, always know the model and serial numbers of your product. These numbers will help the Service Dealer or Service Representative provide exact information about your specific product. You will find the model and serial number plate located in a unique place on the product as shown below.



1. Model and Serial Number Plate

For your convenience, write the product model and serial numbers in the space below.

Model No: _____

Serial No. _____

The warning system in this manual identifies potential hazards and has special safety messages that help you and others avoid personal injury, even death. DANGER, WARNING and CAUTION are signal words used to identify the level of hazard. However, regardless of the hazard, be extremely careful.

DANGER signals an extreme hazard that will cause serious injury or death if the recommended precautions are not followed.

WARNING signals a hazard that may cause serious injury or death if the recommended precautions are not followed.

CAUTION signals a hazard that may cause minor or moderate injury if the recommended precautions are not followed.

Two other words are also used to highlight information. “Important” calls attention to special mechanical information and “Note” emphasizes general information worthy of special attention.

The left and right side of the machine is determined by sitting on the seat in the normal operator’s position.

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Assembly

Loose Parts

Note: Use the chart below to identify parts used for assembly.

DESCRIPTION	QTY.	USE
Blade assembly	1	Assemble blade to frame
Rod	1	
Control rod	1	
Cotter pin 1/8 x 1” (26 mm)	3	
Frame assembly	1	
Bolt 3/4–16 x 3-3/4” (95 mm)	1	
Locknut 3/4–16	1	
Hairpin cotter–large	1	
Rear hitch assembly	1	Mount rear hitch to tractor
Strap	2	
Angle bracket (if required)	2	
Carriage bolt 3/8–16 x 3-1/2” (89 mm)	4	
Locknut 3/8–16	4	
Lift link	1	Assemble lift link to tractor lift
Clevis pin 3/8 x 7/8” (22 mm)	2	
Hairpin cotter–medium	2	
Operator’s Manual	1	Read before operating
Registration Card	1	Fill out and return to Toro

Assemble Blade

1. Lift and rotate channel and trip spring assembly so holes align with lower blade mounts. Slide rod through holes and secure with (2) 1/8 x 1” (26 mm) cotter pins (Fig. 1).

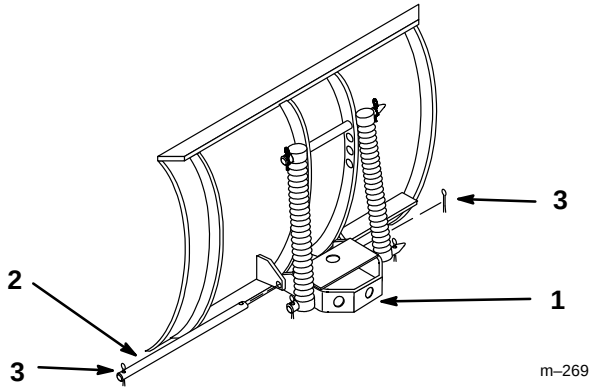


Figure 1

1. Channel
2. Rod
3. Cotter pin 1/8 x 1” (26 mm)

2. Insert control rod in 1/2” (13 mm) hole in bottom plate of channel. Secure control rod with 1” (26 mm) cotter pin between plates (Fig. 2).

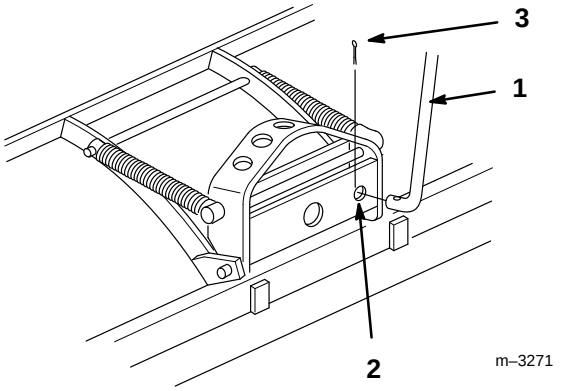


Figure 2

1. Control rod
2. Channel–1/2” (13 mm) hole
3. Cotter pin 1” (26 mm)

3. Apply general purpose grease to the pivot area of frame and channel. Slide channel between frame mount and secure with 3/4–16 x 3-3/4” (95 mm) bolt, up from the bottom, and 3/4” locknut (Fig. 3).

IMPORTANT: Do not tighten nut and bolt excessively to cause binding on channel as it pivots side-to-side.

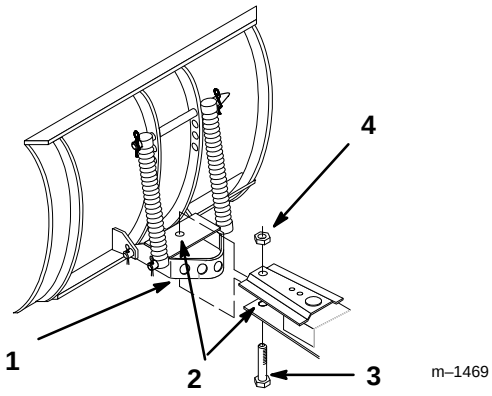


Figure 3

1. Channel
2. Grease here
3. Bolt 3/4–16 x 3-3/4” (95 mm)
4. Locknut 3/4”

Mount Rear Hitch

1. Center hitch on axle housing and install with (4) 3/8 x 3-1/2”(89 mm) carriage bolts, (2) straps and (4) 3/8–16 locknuts as shown (Fig. 4).

Note: On hydrostatic models with oil filter facing rear locate hitch 3-1/4” (8.3 cm) from right side of center housing.

Note: On 8-speed gear drive models install angle spacers, positioned along top and rear of axle.

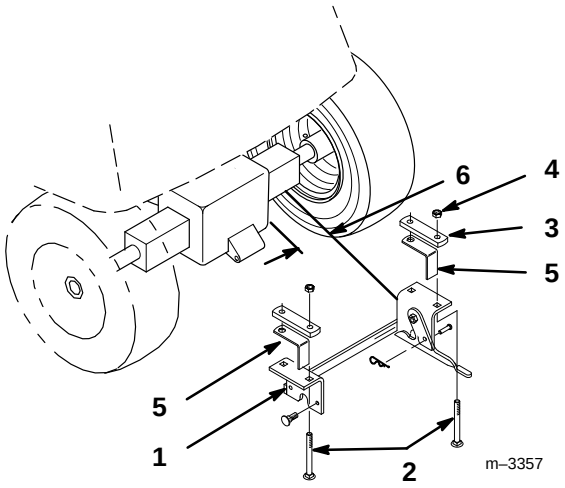


Figure 4

1. Rear hitch
2. Carriage bolt 3/8 x 3-1/2” (89 mm)
3. Strap
4. Locknut 3/8”
5. Angle spacer (if required)
6. 3-1/4” (8.3 cm) location

Installing Blade to Tractor

1. Remove power take off (PTO) cover from side of tractor, if so equipped.

2. Position blade on a level surface with space behind for tractor.

3. Rotate lever rearward next to frame.

4. Park the tractor over blade, with frame between wheels. Set the parking brake, and turn the ignition key to “OFF” to stop the engine. Remove the key.

5. Slide frame toward right rear tire and rotate handle to vertical position. Then continue sliding frame to rear hitch.

6. Open latch levers and lift frame into position at rear hitch. Close latch levers and secure closed with 1/4 x 3/4” (19 mm) clevis pins and small hairpin cotters (Fig. 5).

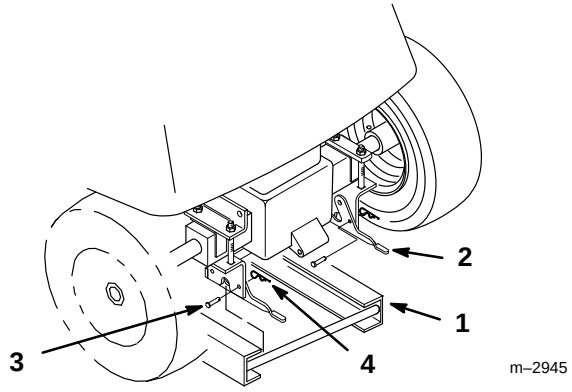


Figure 5

1. Frame mount
2. Latch lever
3. Clevis pin 1/4 x 3/4 (19 mm)
4. Hairpin cotter-small

7. With index handle vertical attach cable Z end to back hole of triangle index plate (Fig. 6).

8. Attach control rod to index lever with large hairpin cotter (Fig. 6).

9. Move index lever to center position and adjust cable turnbuckle so the index pin is pulled out of channel when the release lever is squeezed and blade moves side-to-side when lever is pushed and pulled (Fig. 6).

10. Tighten cable jam nut securely.

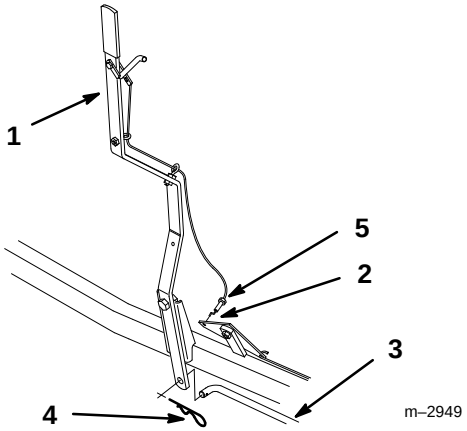


Figure 6

1. Index lever
2. Back hole of index plate
3. Control rod
4. Hairpin cotter–large
5. Turnbuckle and jam nut

11. Set Dial-a-Height to the Mounting Position, and lower attachment lift all the way; refer to Adjusting Dial-A-Height.

12. Attach lift link between blade and tractor attachment lift hole. Secure with (2) 3/8 x 7/8" (22 mm) clevis pins and medium hairpin cotters (Fig. 7).

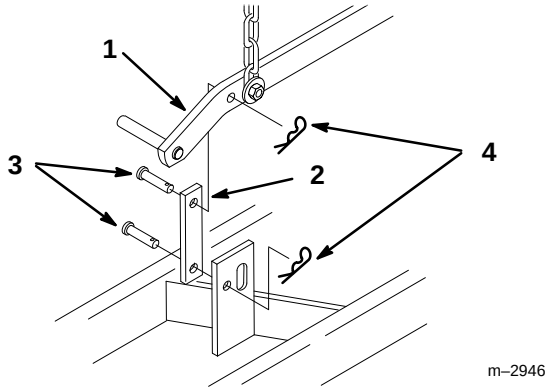


Figure 7

1. Attachment lift
2. Lift link
3. Clevis pin 3/8 x 7/8" (22 mm)
4. Hairpin cotter-medium

Note: To use blade with "Down Pressure", purchase long lift link kit (P\N 7706) and install between tractor lift and blade.

Removing the Blade

Note: Save all hardware, rods, washers and hairpin cotters for reuse when installing blade.

1. Park the machine on a level surface, set the parking brake, and turn the ignition key to “OFF” to stop the engine. Remove the key.

2. Raise attachment lift to the transport position. Turn the Dial-a-Height knob counterclockwise, all the way, and lower the attachment lift lever to the mounting position; refer to Lowering Attachments.

3. Remove (2) clevis pins and hairpin cotters securing lift link between blade and tractor attachment lift (Fig. 8).

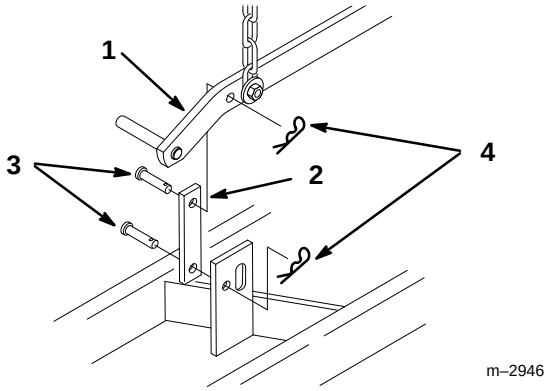


Figure 8

1. Attachment lift
2. Lift link
3. Clevis pin
4. Hairpin cotter

4. Open latch levers and lower frame from rear hitch. Close latch levers and secure closed with clevis pins and hairpin cotters (Fig. 9).

Note: Save all hardware, rods, washers and hairpin cotters for reuse when installing blade.

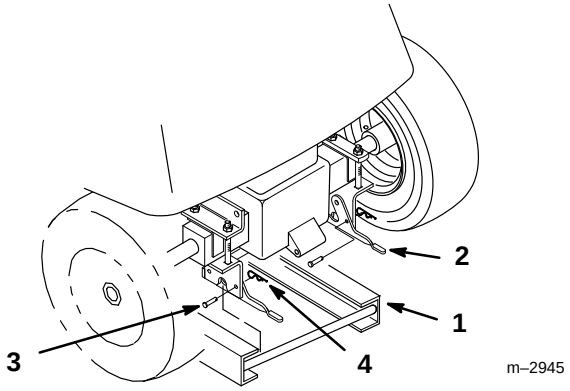


Figure 9

1. Frame mount
2. Latch lever
3. Clevis pin
4. Hairpin cotter

5. Remove hairpin cotter and control rod from index lever (Fig. 10).

6. Begin sliding blade forward and toward right side of tractor. After frame clears right rear tire, rotate index lever back, next to frame.

7. Roll tractor away from above frame.

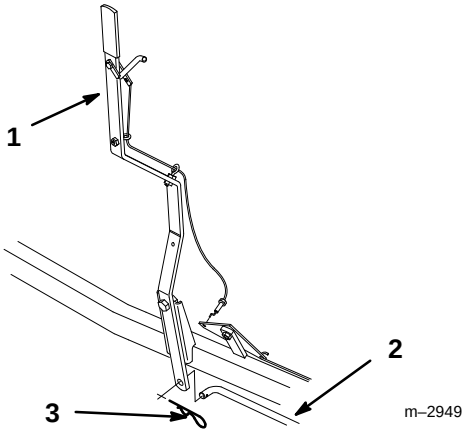


Figure 10

1. Index lever
2. Control rod
3. Hairpin cotter–large

Operation

⚠ DANGER

POTENTIAL HAZARD
- **Hitting fixed objects can cause the tractor to stop abruptly.**

WHAT CAN HAPPEN
- **Stopping abruptly can cause loss of control, equipment damage and personal injury.**

HOW TO AVOID THE HAZARD
- **Travel at a safe, slow speed.**
- **Check area to be plowed and mark all fixed objects so they can be avoided.**

Adjusting Dial-A-Height

The Dial-A-Height control (Fig. 11) is used to limit the downward travel of the attachment. The Dial-A-Height knob is rotated to change the location of this stop, up or down.

1. Raise the attachment lift lever: Refer to Raising Attachments. In the raised position the Dial-A-Height knob (Fig. 11) can be rotated to change the stop location. Turn clockwise to raise and counterclockwise to lower the height of the attachment.

Attachment Lift Lever

The attachment lift lever (Fig. 11) is used to raise and lower various attachments.

Raising Attachments

1. Pull attachment lift lever rearward until latch locks. In this position the lift will hold the attachment in the up, or raised position.

Lowering Attachments

1. Pull attachment lift lever rearward, to release lift pressure, and push the button on top to release the latch. Move lift lever forward to lower attachment.

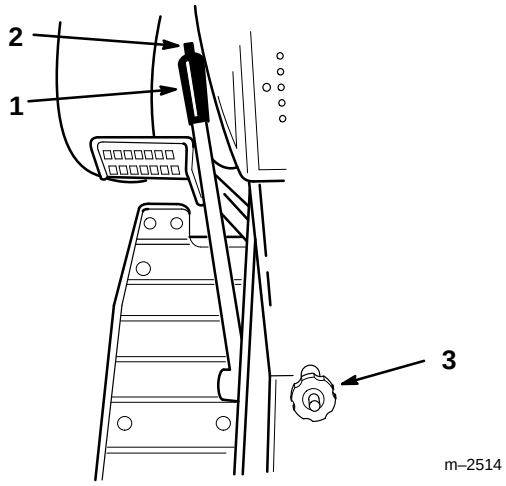


Figure 11

1. Lift lever
2. Button
3. Dial-A-Height

Attachment Power Lift

The attachment power lift (Fig. 12) is used to raise and lower attachments.

Raising Attachments

1. Start the engine, refer to; Starting and Stopping the Engine; in tractor Operator's Manual.

2. Pull the lift lever in the "UP" direction to raise the attachment lift (Fig. 12). This will lift and hold the attachment in the up, or raised position.

Lowering Attachments

1. Start the engine, refer to; Starting and Stopping the Engine; in tractor Operator's Manual.

2. Push the lift lever in the "DOWN" direction to lower the attachment lift (Fig. 12). This will lower the attachment lift.

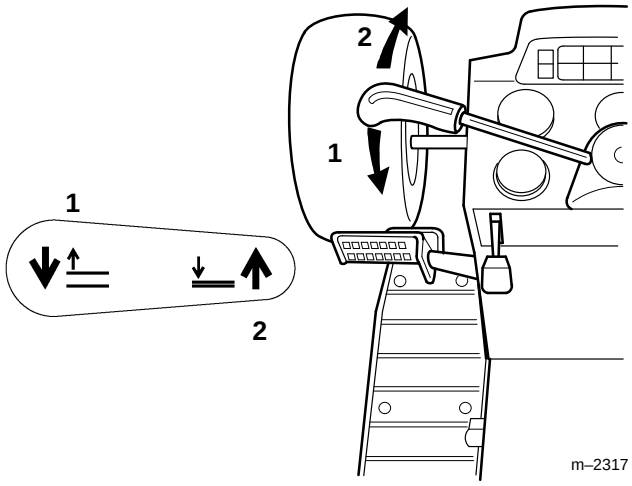


Figure 12

1. UP
2. DOWN

Adjusting Blade Index

The blade can be indexed side to side, in 5 positions. The direction is controlled by the handle on the right side (Fig. 13).

1. Squeeze the release lever toward the handle (Fig. 13).

2. Push or pull lever to change index position and release lever. Index pin must snap into hole in channel to retain position.

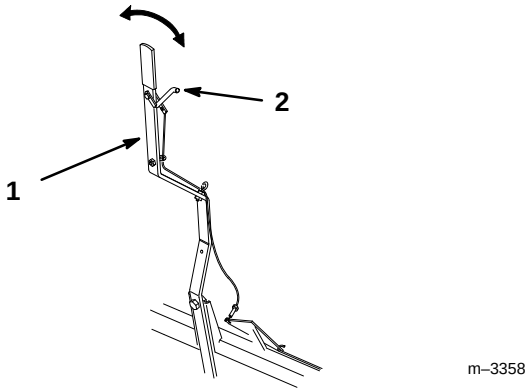


Figure 13

1. Handle
2. Release lever

Adjusting Blade Trip Springs

The blade trip springs can be mounted in 4 positions. The top hole provides greatest scraping pressure and the lower hole least scraping pressure (Fig. 14).

1. Remove hairpin cotter and slide rod out from blade and springs (Fig. 14).

2. Slide rod through springs and new hole position in blade (Fig. 14).

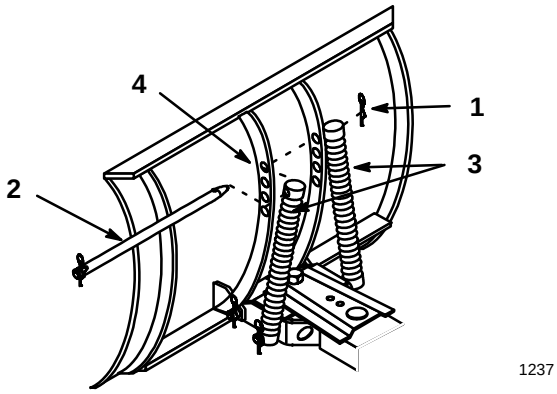


Figure 14

1. Hairpin cotter
2. Rod
3. Spring
4. Top hole

Tips for Using Snow Blade

Remove snow as soon as possible after it falls. This produces best snow removal results.

Snow is generally removed from driveway by making one pass down the center and then plowing snow to either side on successive passes.

If tractor looses traction when using snow blade, wheel weights and tire chains may be available from your dealer.

Blade trip springs can be adjusted for scraping aggressiveness and surface conditions. Second hole from the top is recommended for snow. Refer to adjusting blade trip springs.

Maintenance

Service Interval Chart

Service Operation	Each Use	5 Hours	25 Hours	Storage Service	Fall Service	Notes
Grease–Channel pivot			X	X	X	
Oil–Linkages			X	X	X	
Chipped Surfaces–paint				X		
Scraper–check for wear				X	X	

⚠ CAUTION

POTENTIAL HAZARD

- **If you leave the key in the ignition switch, someone could start the engine.**

WHAT CAN HAPPEN

- **Accidental starting of the engine could seriously injure you or other bystanders.**

HOW TO AVOID THE HAZARD

- **Remove the key from the ignition switch and pull the wire off the spark plug before you do any maintenance. Also push the wire aside so it does not accidentally contact the spark plug.**

Greasing and Lubrication

Service Interval/Specification

Grease and oil the blade after every 25 operating hours or once a year, whichever occurs first.

Grease Type: General-purpose grease.

Oil Type: SAE 10W or 10W30.

Grease Channel Pivot

1. Disengage the power take off (PTO), set the parking brake, and turn the ignition key to “OFF” to stop the engine. Remove the key.
2. Clean the area around channel pivot with a rag. Apply grease to pivot bolt, frame and sector (Fig. 15).
3. Wipe off excess grease.

Oil Linkages

1. Disengage the power take off (PTO), set the parking brake, and turn the ignition key to “OFF” to stop the engine. Remove the key.
2. Place a few drops of oil on all movable linkages (Fig. 15).
3. Wipe off excess oil.

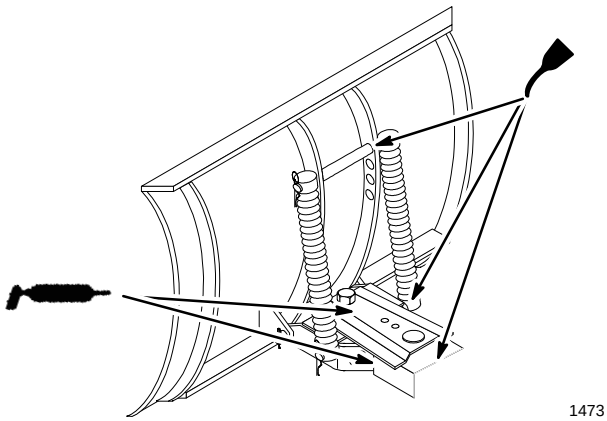


Figure 15

Reversing the Scraper Blade

The scraper blade contacts the ground preventing damage to the snow blade. Periodically inspect the scraper blade for wear. When scraper becomes worn, before working surface contacts the housing, reverse the scraper blade.

1. Disengage the power take off (PTO), set the parking brake, and turn the ignition key to “OFF” to stop the engine. Remove the key.
2. Raise the attachment lift lever: Refer to Raising Attachments, and support the housing off the ground.
3. Remove lock nuts and carriage bolts to remove scraper blade (Fig. 16).
4. Reverse scraper blade to replace a worn edge and install with previously removed hardware (Fig. 16).

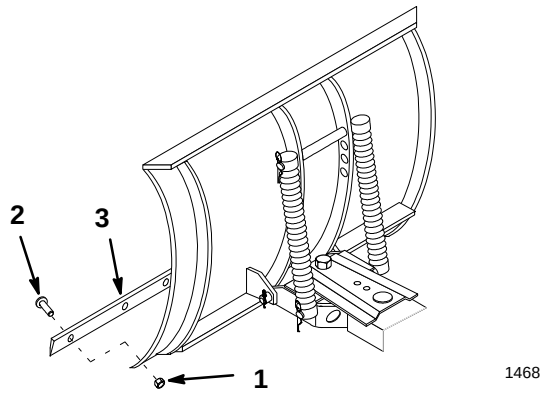


Figure 16

1. Lock nut
2. Carriage bolt
3. Scraper blade

Storage

1. Before long term storage wash the blade with mild detergent and water to remove dirt and grime from the entire attachment.
2. Check the condition of the scraper blade; refer to Reversing Scraper Blade, page 13.
3. Grease and oil the blade; refer to Greasing and Lubrication, page 12.
4. Check and tighten all bolts, nuts, and screws. Repair or replace any part that is damaged or defective.
5. Paint all scratched or bare metal surfaces. Paint is available from your Authorized Service Dealer.
6. Store the blade in a clean, dry garage or storage area. Cover the machine to protect it and keep it clean.