FORM NO. 3319–564

TORO®

Wheel Horse®

48” Snow Blade

for

Lawn & Garden Tractors

Model No. 79252 – 8900001 & Up

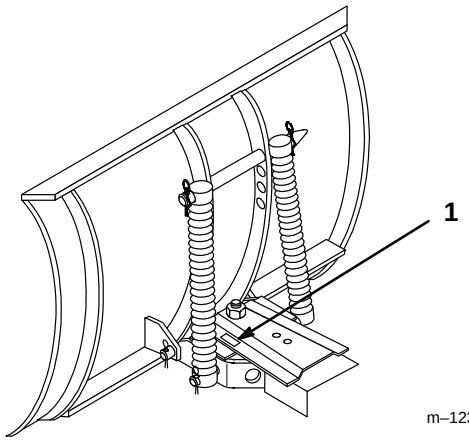
Operator’s Manual

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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Installation

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)	2	
Frame assembly	1	
Bolt 3/4–16 x 3-3/4” (95 mm)	1	
Locknut 3/4–16	1	
Front hitch assembly	1	Install front hitch to tractor
Carriage bolt 3/8–16 x 1” (26 mm)	4	
Locknut 3/8–16	4	
Rear hitch assembly	1	Install rear hitch to tractor
Bolt 1/2–13 x 1-1/4” (32 mm)	3	
Locknut 1/2–13	3	
Lift plate	1	Install lift plate and lift rod
Trunnion	1	
Lift rod	1	
Washer 9/16” (14 mm)	1	
Hairpin cotter–large	1	
Hairpin cotter–medium	1	
Spindle stop	2	Install steering spindle stop
Self tapping bolt 5/16–18 x 3/4”	2	
Index handle assembly	1	Assemble index handle and control rod to frame
Hairpin cotter–large	1	
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).

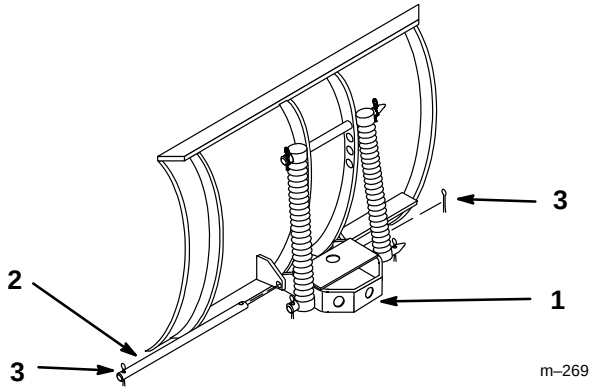


Figure 1

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).

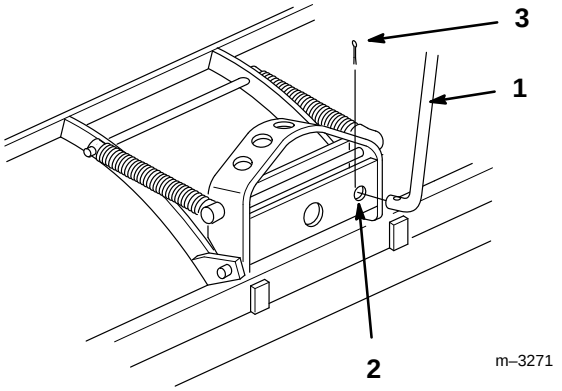


Figure 2

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.

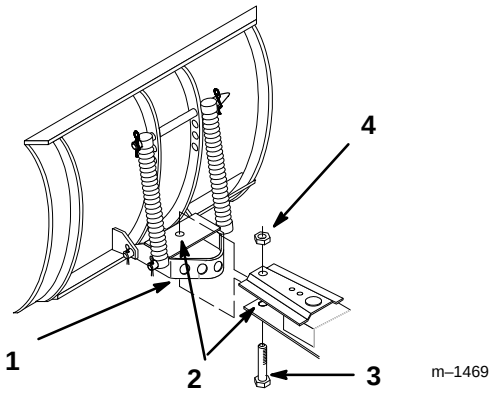


Figure 3

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

4. With index handle vertical attach cable Z end to back hole of triangle index plate (Fig. 4).

5. Attach control rod (end with welded washer) to index handle and secure with large hairpin cotter (Fig. 4).

6. 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. 4).

7. Remove hairpin cotter securing control rod to index handle, rotate handle rearward next to frame (Fig. 4).

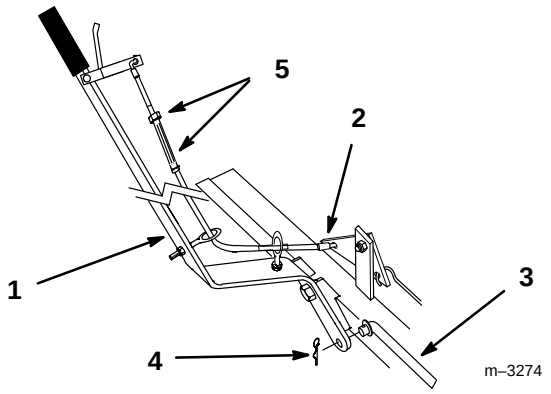


Figure 4

1. Index handle
2. Back hole of index plate
3. Hair pin cotter
4. Control rod
5. Turnbuckle and jam nut

Tractor Set-Up

1. Remove E–ring and all washers except one thick washer from tractor front axle pivot pin. Discard unused washers. (Fig. 5). Remove muffler shield.

2. Install (4) 3/8–16 x 1” (26 mm) carriage bolts into keyhole slots in axle bracket. Install muffler shield and place front hitch onto the tractor securing with (4) 3/8” locknuts and previously removed E-ring (Fig. 5).

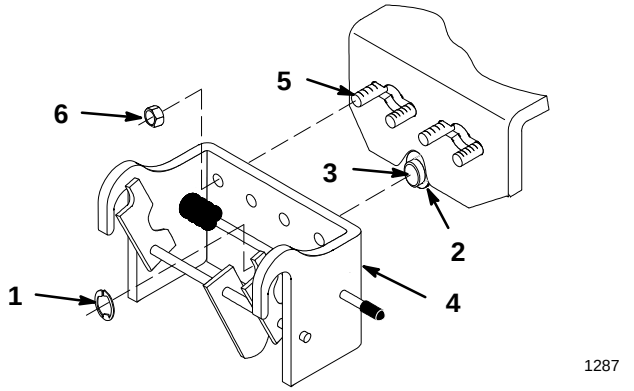


Figure 5

1. E-ring
2. Thick Washer (existing)
3. Axle pivot
4. Front hitch
5. Carriage bolt 3/8–16 x 1” (26 mm)
6. Locknut 3/8”

3. Install rear mounting plate\blade bracket assembly under and inside rear frame member with short tongue rearward (Fig. 6).

4. Secure with (3) 1/2 x 1-1/4” bolts and 1/2”lock nuts at holes in frame side members and tractor hitch forward hole (Fig. 6).

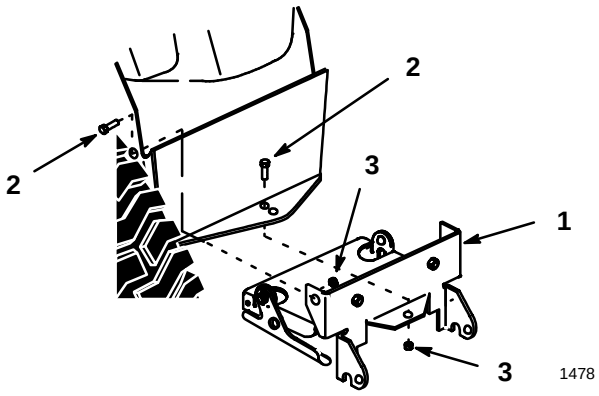


Figure 6

1. Plate\blade bracket assembly
2. Bolt 1/2 x 1-1/4”
3. Lock nut 1/2”

Installing Blade to Tractor

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

2. Remove hairpin cotter securing control rod to index handle, rotate lever rearward next to frame (Fig. 7).

3. 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.

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

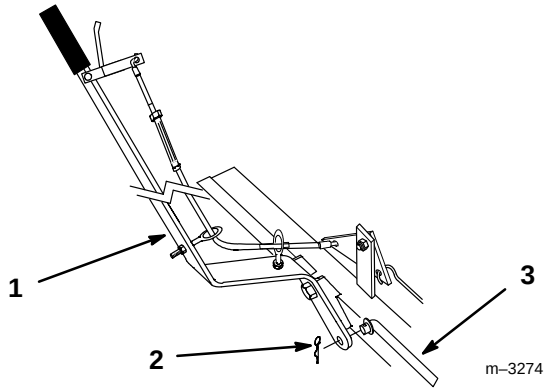


Figure 7

1. Index handle
2. Hair pin cotter
3. Control rod

5. 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. 8).

6. Secure latch levers with clevis pins and small hairpin cotters (Fig. 8).

7. Rotate index handle up and insert control rod. Secure with previously removed hairpin cotter (Fig. 7).

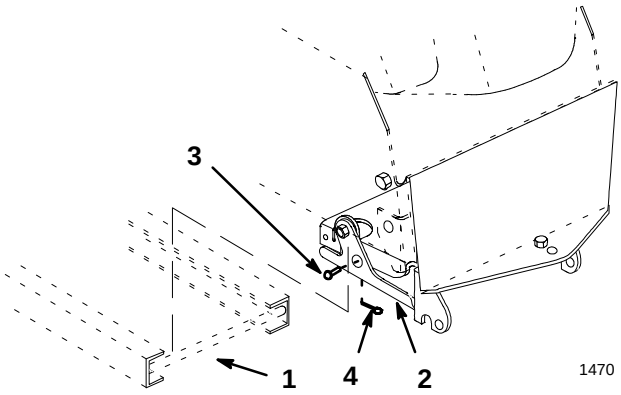


Figure 8

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

8. Open front hitch and slide front lift rod of blade into tractor front hitch. Close and lock front hitch (Fig. 9).

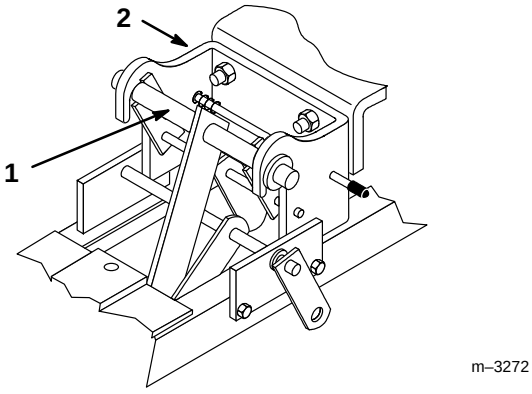


Figure 9

1. Lift rod
2. Front hitch

9. Place lift rod into lift arm and secure with large hairpin cotter (Fig. 10).

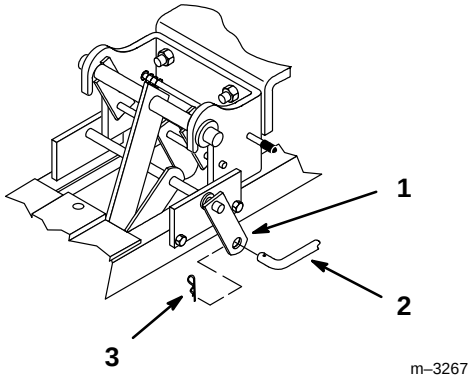


Figure 10

1. Lift arm
2. Lift rod
3. Hairpin cotter–large

10. Set Dial-A-Height to the Mounting Position, and lower attachment lift all the way; refer to Lowering Attachments.

11. Position notch in lift plate around left side tractor lift arm and slide lift plate onto attachment lift arm (Fig. 11). Secure with hairpin cotter from mower, at lift arm.

12. Thread trunnion onto the lift rod and insert into one of the holes in the attachment lift plate with 9/16” (14 mm) washer and medium hairpin cotter (Fig. 11).

Note: Low hole provides maximum blade lift, but requires the greatest lift effort. Top hole requires less lift effort, but has lower lift height.

Note: Blade height can be adjusted by threaded trunnion on and off lift rod.

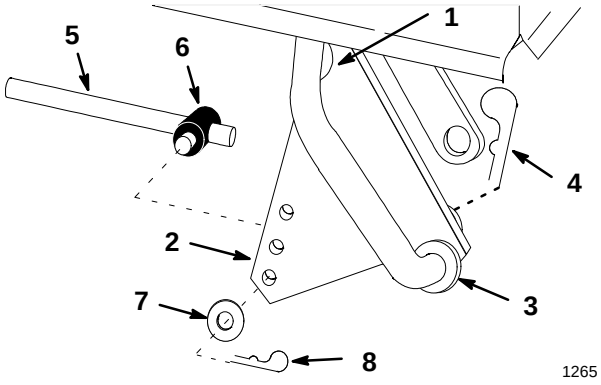


Figure 11

1. Notch
2. Lift plate
3. Lift arm
4. Hairpin cotter–from mower
5. Lift rod
6. Trunnion
7. Washer 9/16” (14 mm)
8. Hairpin cotter–medium

13. Install steering spindle stops in front of the rear tabs on front wheel spindles (Fig. 12). Align so stops contact the axle during tight turns and prevent the wheels from contacting the blade frame. Secure with 5/16 x 3/4”self tapping bolt (Fig. 12).

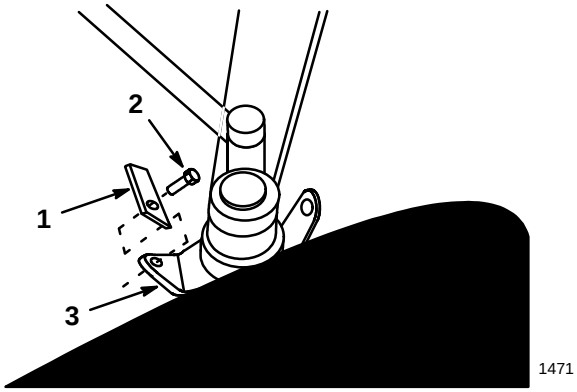


Figure 12

1. Steering wheel stop
2. Self tapping bolt 5/16 x 3/4”
3. Spindle stop

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, 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 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 hairpin cotter and washer from trunnion at lift plate (Fig. 13).

4. Remove hairpin cotter and slide lift plate off attachment lift (Fig. 13).

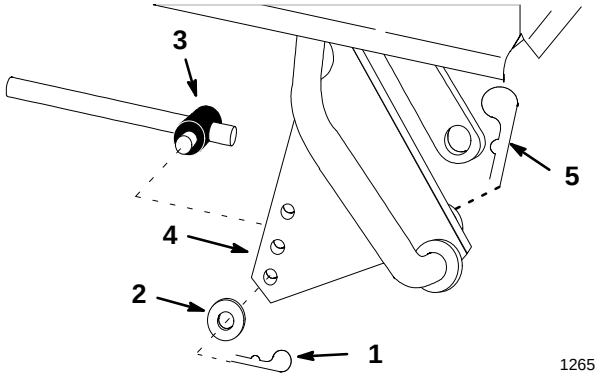


Figure 13

1. Hairpin cotter
2. Washer
3. Trunnion
4. Lift plate
5. Hairpin cotter–from mower

5. Remove hairpin cotters and clevis pins from latch levers (Fig. 14). Open latch levers and lower the frame (Fig. 14).

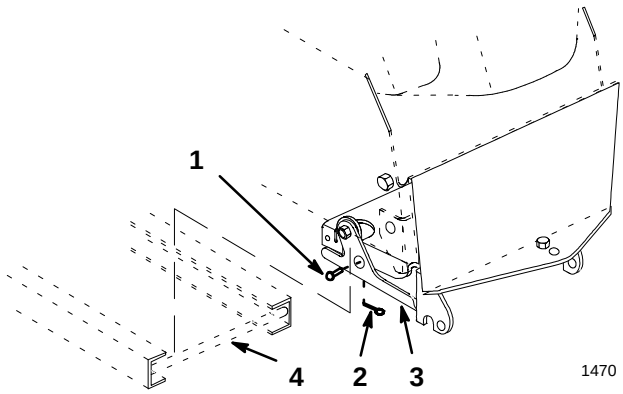


Figure 14

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

6. Push in on the front hitch release rod to open the hitch and remove blade lift arm (Fig. 15).

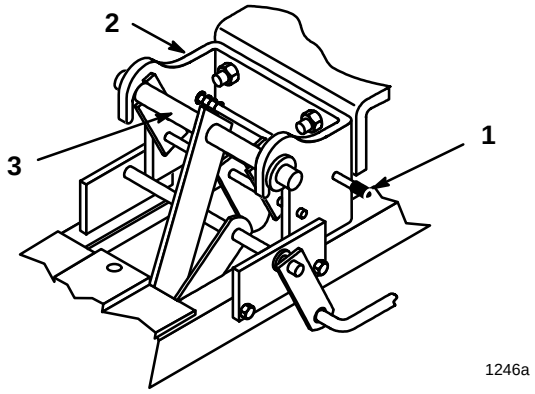


Figure 15

1. Release rod
2. Front hitch
3. Lift arm

7. Remove hairpin cotter and control rod from index lever (Fig. 16).

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

9. Slide blade out between front wheels of tractor.

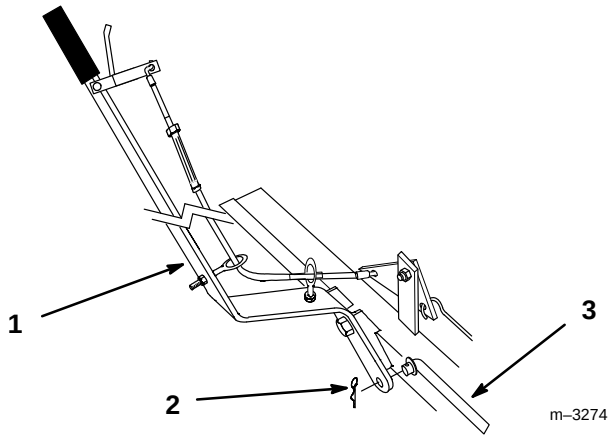


Figure 16

1. Index handle
2. Hairpin cotter
3. Control rod

10. Remove the steering spindle stops, from tabs on front wheel spindles, to allow for tighter turning radius (Fig. 17).

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

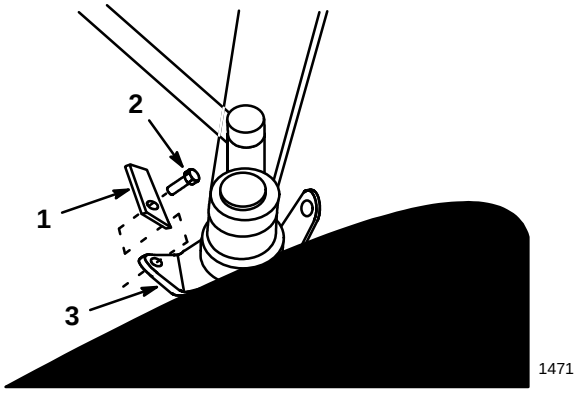


Figure 17

1. Steering wheel stop
2. Self tapping bolt 5/16 x 3/4”
3. Spindle stop

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.**

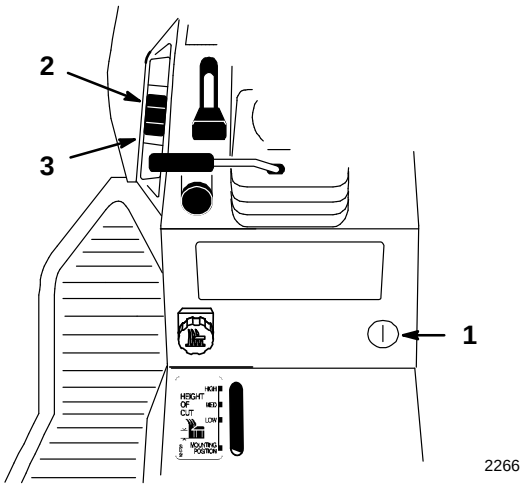


Figure 18

1. Key
2. Lift switch UP
3. Lift switch DOWN

Attachment Power Lift

The attachment power lift (optional on some models) (Fig. 18) is used to raise and lower attachments.

Raising Attachments

1. Turn key to the “ON” or “RUN” position (Fig. 18).

2. Push the lift switch in the “UP” direction to raise the attachment lift (Fig. 18). This will lift and hold the attachment in the up, or raised position.

Lowering Attachments

1. Turn key to the “ON” or “RUN” position (Fig. 18).

2. Push the lift switch in the “DOWN” direction to lower the attachment lift (Fig. 18). This will lower the attachment lift.

Attachment Lift Lever

The attachment lift lever (Fig. 19) is used to raise and lower various attachments.

Raising Attachments

1. Depress the clutch and/or brake pedal(s) to stop the machine.

2. 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. Depress the clutch and/or brake pedal(s) to stop the machine.

2. 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.

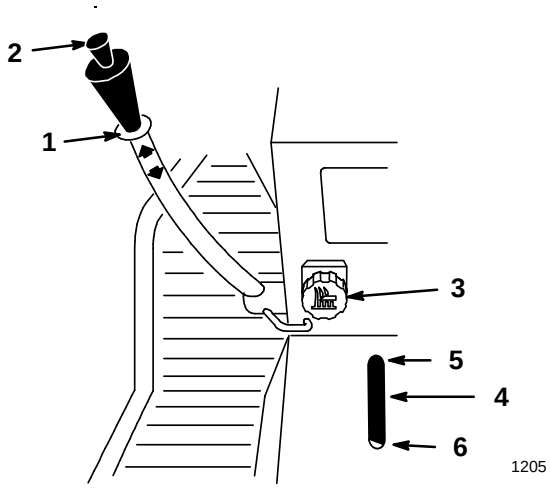


Figure 19

1. Lift lever
2. Button
3. Dial-A-Height
4. Indicator
5. High
6. Mounting position

Adjusting Dial-A-Height

The Dial-A-Height control (Fig. 19) 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. 19) can be rotated to change the stop location. Turn clockwise to raise and counterclockwise to lower the height of the attachment.

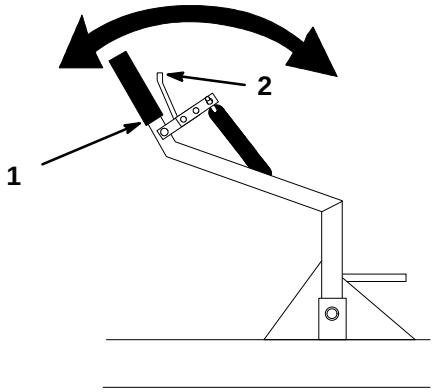
2. The Dial-A-Height indicator (Fig. 19) will show the change, high to low, in attachment lift height as adjustment is made.

Adjusting Blade Index

The blade can be indexed side to side, in 5 positions. The direction is controlled by the handle on the right frame (Fig. 20).

1. Squeeze the release lever toward the handle (Fig. 20).

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



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Figure 20

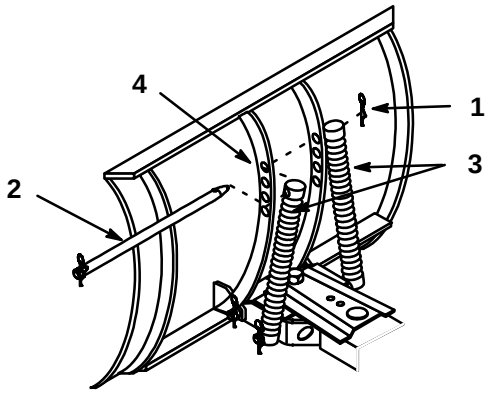
1. Handle
2. Release lever

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. 21).

1. Remove hairpin cotter and slide rod out from blade and springs (Fig. 21).

2. Slide rod through springs and new hole position in blade (Fig. 21).



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Figure 21

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 are 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.

Optional skid shoe kit is available to control the height of blade from the ground for even scraping.

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. 22).
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. 22).
3. Wipe off excess oil.

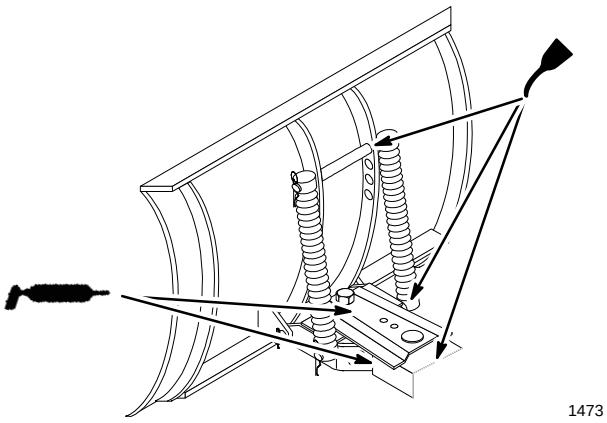


Figure 22

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. 23).
4. Reverse scraper blade to replace a worn edge and install with previously removed hardware (Fig. 23).

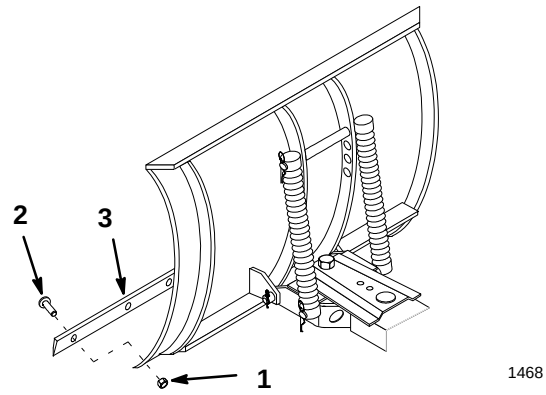


Figure 23

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 16.
3. Grease and oil the blade; refer to Greasing and Lubrication, page 15.
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.