

# ATTACHMENT OPERATOR'S MANUAL



## Snow Blade & Hitch

Mfg. No.	Description
1696092-00	42" Snow Blade & Hitch for Large Frame & Small Frame Tractor

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Not for  
Reproduction

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**NOTE:** In these instructions, “front”, “back”, “left” and “right” are referenced from the operating position.

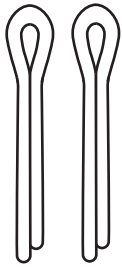
**NOTE:**

**Capital letters** refer to NEW HARDWARE.

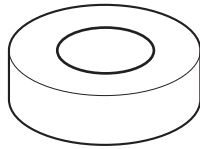
**Lower case letters** refer to EXISTING PARTS and HARDWARE.

# Hardware Bag Contents

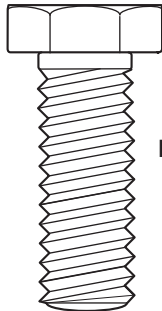
**A - COTTER PIN**  
.125" x 1.0" (Qty. 2)



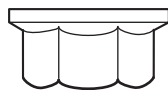
**C - SPACER**  
.51" ID x 1.0" OD x .26" THK  
(Qty. 1)



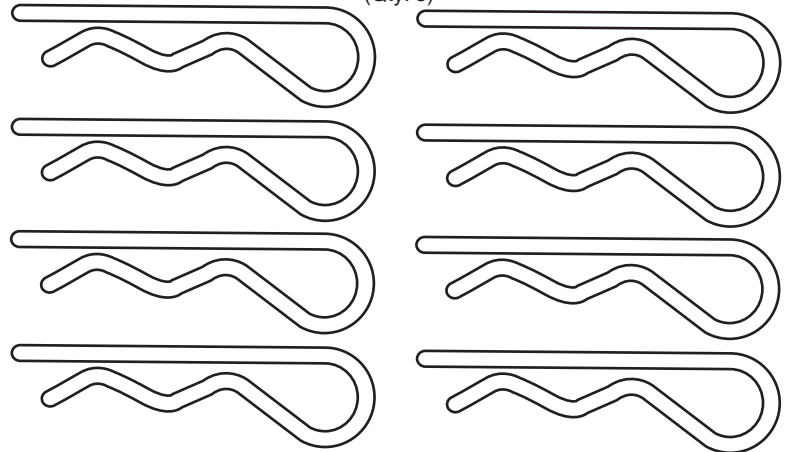
**D - CAPSCREW**  
1/2"-13 x 1.25"  
(Qty. 1)



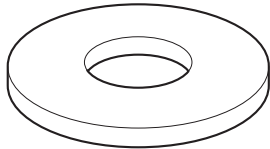
**F - NUT, WHIZ LOCK**  
1/2"-13 (Qty. 1)



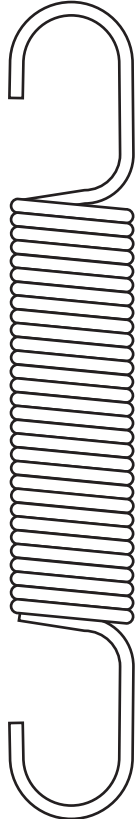
**B - HAIR PIN**  
(Qty. 8)



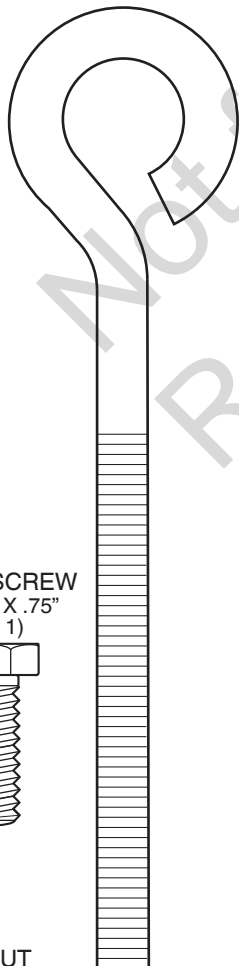
**E - WASHER**  
.56" ID x 1.37" OD x .11" THK  
(Qty. 1)



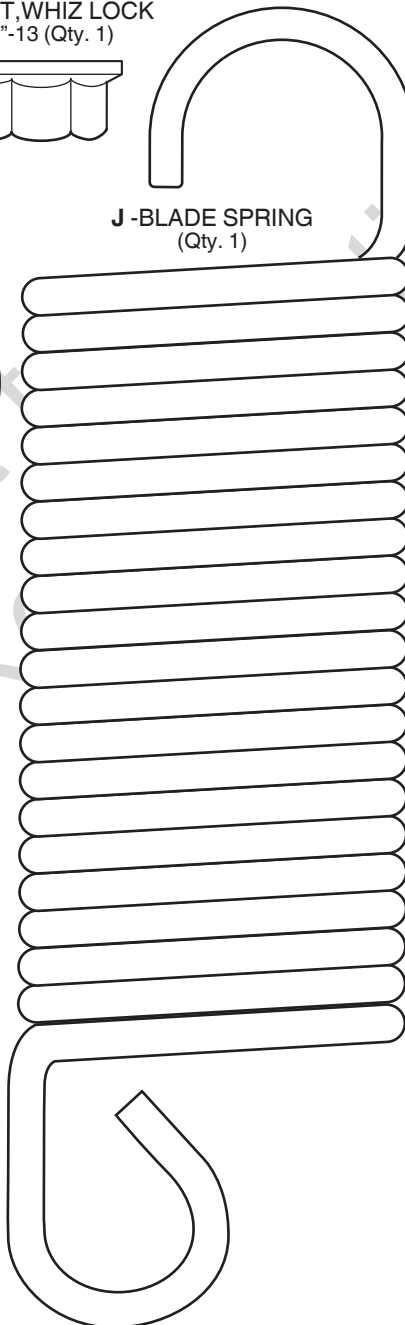
**H - SPRING EXTENSION**  
(Qty. 1)



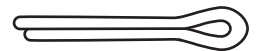
**I - EYE BOLT**  
(Qty. 1)



**J - BLADE SPRING**  
(Qty. 1)



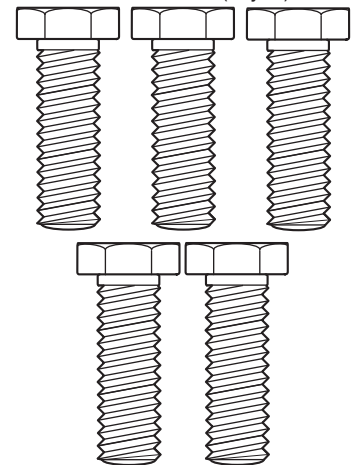
**G - COTTER PIN**  
.094" x .75" (Qty. 1)



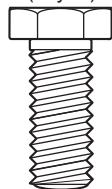
**K - NUT, Hex**  
.31"-18 (Qty. 2)



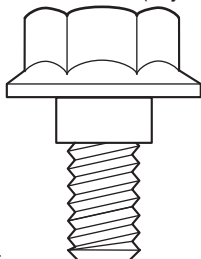
**L - CAPSCREW**  
5/16"-18 X 1.0" (Qty. 5)



**M - CAPSCREW**  
5/16"-18 X .75"  
(Qty. 1)



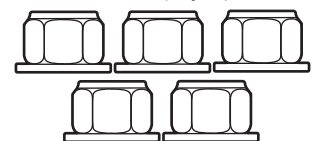
**O - Shoulder Bolt**  
3/8"-24 X .910" (Qty. 1)



**P - NUT**  
3/8"-24 (Qty. 1)



**N - NUT, ESNA**  
5/16"-18 (Qty. 5)



## Box Contents

**AA - HITCH SUPPORTS**  
Right (Hardware Bag)



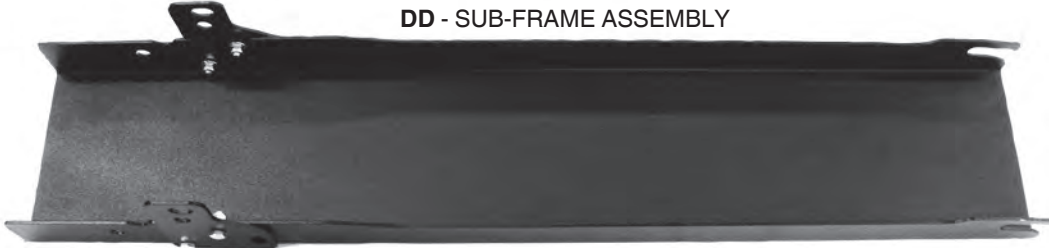
**BB - HITCH SUPPORTS**  
Left (Hardware Bag)



**CC - REAR SUPPORT ROD**



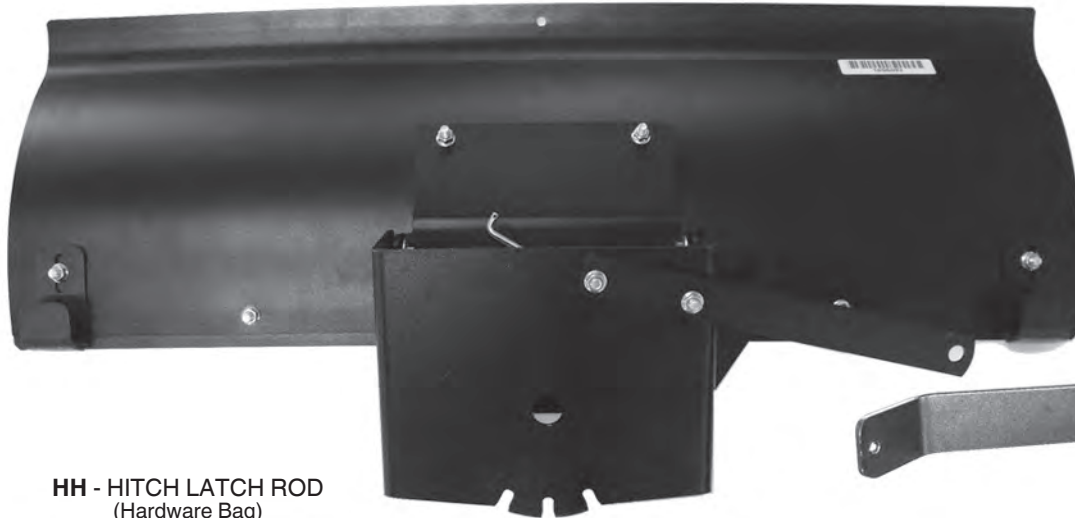
**DD - SUB-FRAME ASSEMBLY**



**EE - LATCH ROD**  
(Qty. 2), (Hardware Bag)



**FF - BLADE ASSEMBLY**



**GG - PIVOT ASSEMBLY**



**HH - HITCH LATCH ROD**  
(Hardware Bag)



**JJ - TOP ANGLE ROD**



**KK - FRONT ANGLE ROD**



**NN - GREASE**



**II - LIFT SUPPORT ASSEMBLY**



**LL - SHORT LIFT BAR ASSEMBLY**




**MM - HANDLE**



## Operator Safety



Read these safety rules and follow them closely. Failure to obey these rules could result in loss of control of unit, severe personal injury or death to you, or bystanders, or damage to property or equipment. The triangle  in text signifies important cautions or warnings which must be followed.



### GENERAL WARNING

- Know the unit's controls and how to stop quickly. **READ THE OPERATOR'S MANUALS.**
- Read and obey all safety decals.
- Only allow responsible adults, who are familiar with the instructions, to operate the unit.
- Disengage the PTO. Shut off the engine and wait for all moving parts to stop before attaching, adjusting, or disconnecting any part of the collection system.
- Use only attachments or accessories designed for your machine. See your dealer for a complete list of recommended attachments or accessories.
- Keep the area of operation clear of all persons, particularly small children, and pets.
- Never direct discharge towards bystanders.
- Make sure all hardware is secure and that snow blade is in good operating condition.
- Check to be sure all safety devices and shields are in place.
- Check that all adjustments are correct before using this unit.
- Gasoline is highly flammable. Follow all precautions listed in your tractor's operator's manual.
- Always wear eye protection while operating and performing adjustments to protect eyes from debris thrown by the blade.
- **DO NOT** turn sharply when travelling alongside a building or any object. Slow down before turning.
- **DO NOT** carry passengers.
- For added stability and to prevent tipping or loss of control:
  - a. Use reduced speed on uneven ground and when turning corners.
- **Never operate on slopes greater than 17.6% (10°).**



### WARNING

**ALWAYS** shut off the tractor.

Before leaving the operator's position for any reason, engage the parking brake, disengage the PTO, stop the engine and remove the key.

To reduce fire hazard, keep the engine and rider free of grass, leaves and excess grease. Do not stop or park rider over dry leaves, grass or combustible materials.



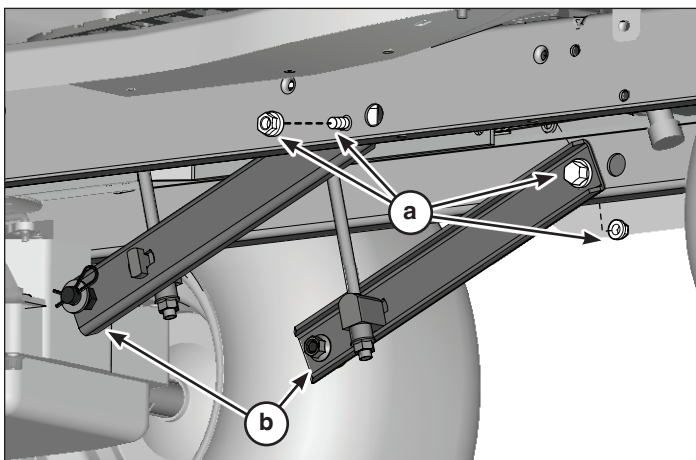
### CAUTION

Before you begin operating the unit be certain you have read all of the safety and operational information of this instruction sheet, as well as the Operator's Manual for the tractor and any other attachments.



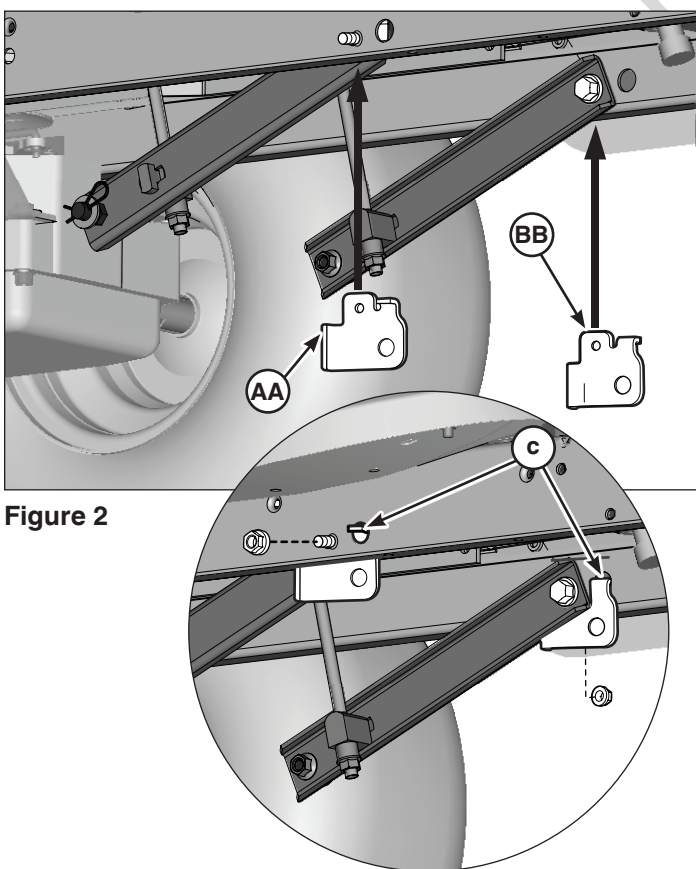
## Sub-Frame Assembly Installation

1. Remove the nuts and bolts (a, Figure 1) on existing right and left mower lift arms (b). Retain nuts and bolts for Step 2.



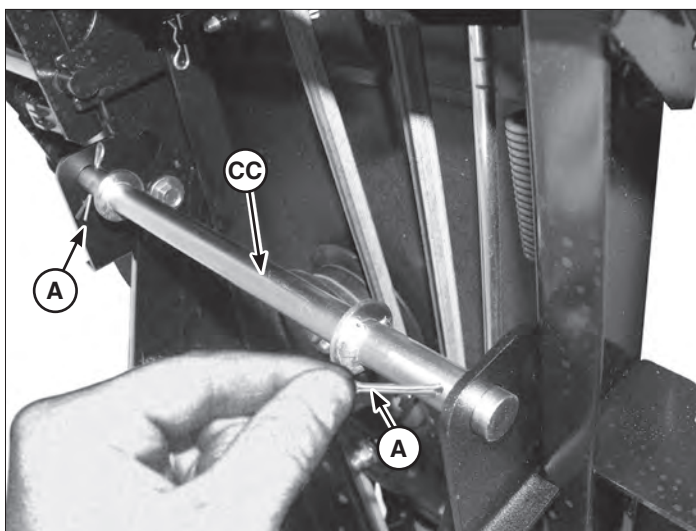
**Figure 1**

2. Insert right (AA, Figure 2) and left (BB) rear hitch supports between tractor and lift arm. Secure with nuts and bolts from Step 1. Make sure the hooks (c) of the hitch supports are inserted into the holes of the tractor frame.



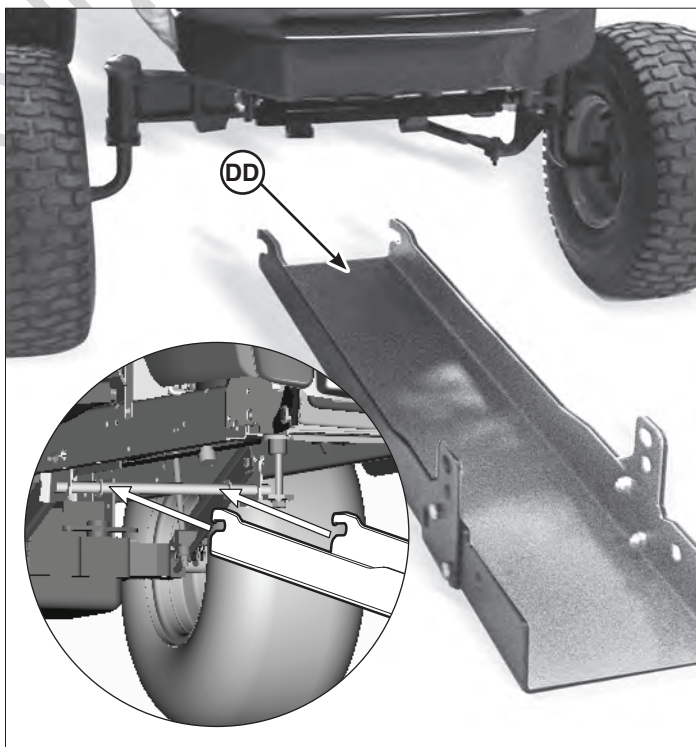
**Figure 2**

3. Insert the rear support rod (CC, Figure 3) into the right and left rear hitch support holes. Secure with cotter pins (A). Cotter pins should be on the inside of the hitch supports.



**Figure 3**

4. Place the sub-frame assembly (DD, Figure 4) underneath the tractor.
5. Hook the arms of the sub-frame assembly onto the rear support rod as shown in Figure 4 inset.



**Figure 4**

## Assembly

### Large Frame Tractors:

1. At the front of the tractor, align the top slot of the sub-frame assembly to the tractor frame "J" hooks. Slide in the latch rod (**EE**, Figure 5) through the slotted hole and "J" hooks.
2. Slide the remaining latch rod (**EE**) through the lower hole on the sub-frame assembly.

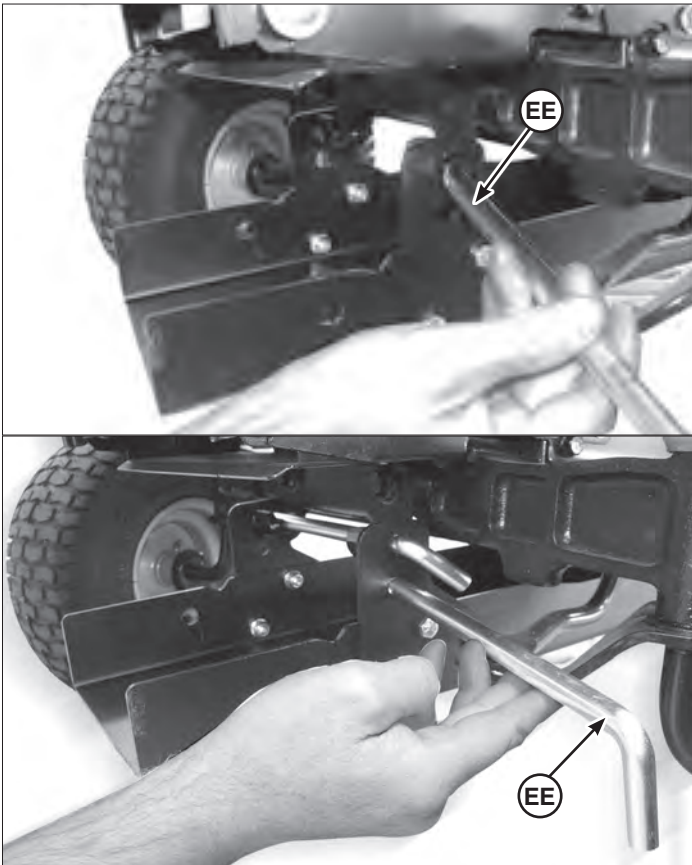


Figure 5

3. Secure both latch rods with hair pins (**B**, Figure 6).

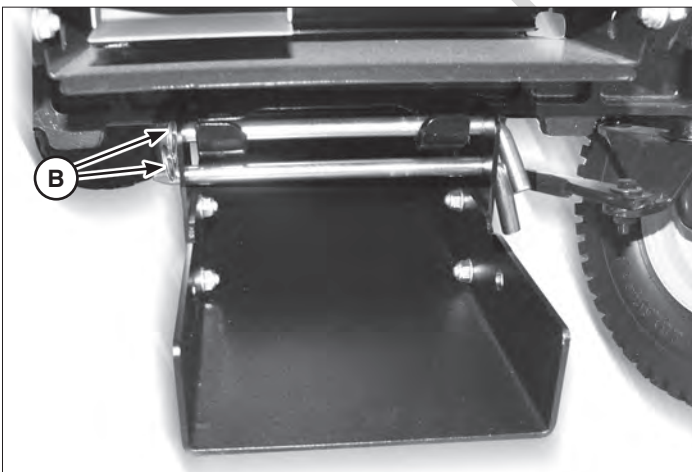


Figure 6

### Small Frame Tractors:

**NOTE:** Small frame tractors do not use the lower latch rod.

1. At the front of the tractor, align the top slot of the sub-frame assembly to the tractor frame. Slide the latch rod (**HH**, Figure 7) through the slotted holes of the sub-frame assembly and the holes of the tractor frame.

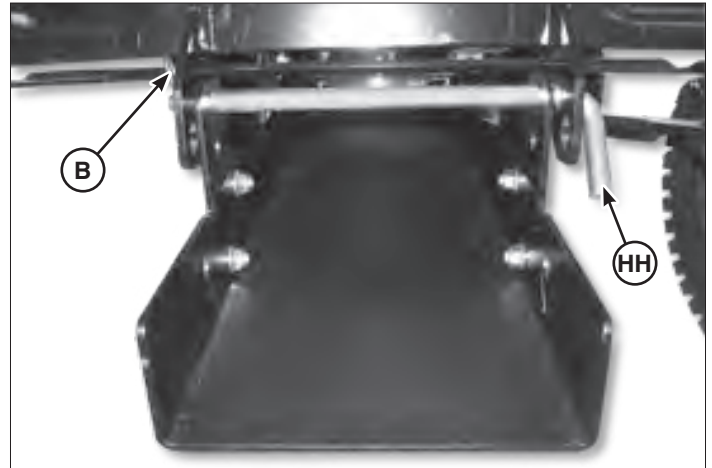


Figure 7

2. Secure latch rod with hair pin (**B**, Figure 7).

### Front Blade Assembly

1. Insert spacer (**C**, Figure 8) into the hole in the blade assembly (**FF**).
2. Grease (**NN**) the spacer and the area around the spacer on both sides of the blade assembly.

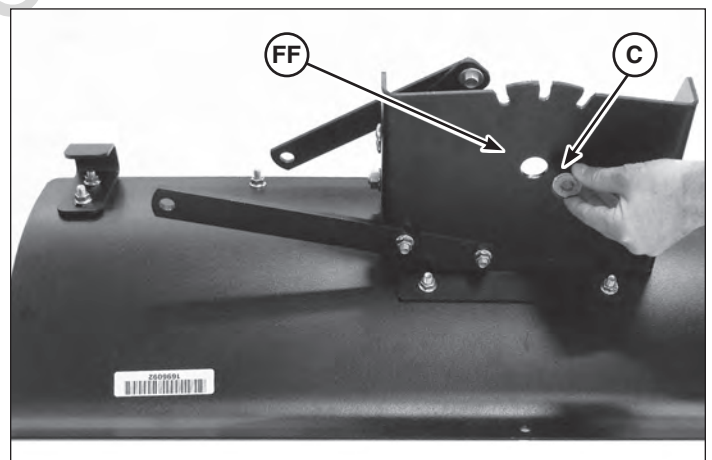
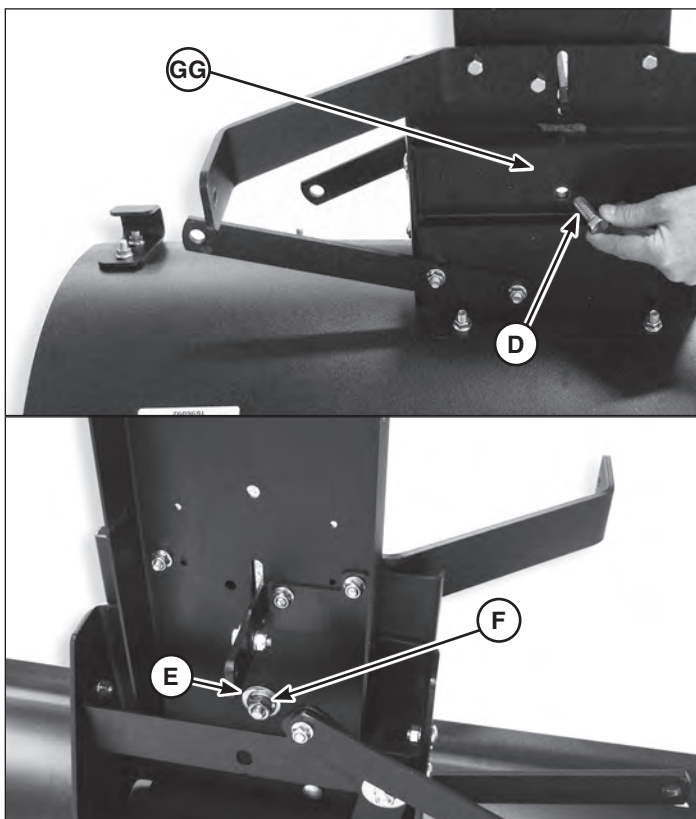


Figure 8

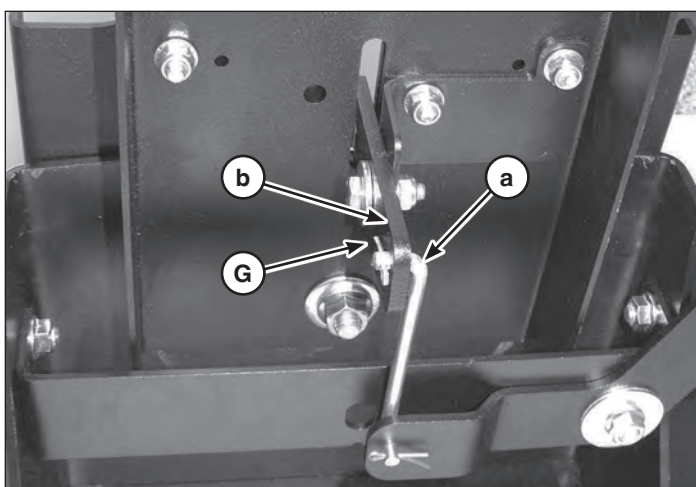


3. Slide hitch pivot assembly (**GG**) onto blade assembly lining up holes and insert capscrew (**D**, Figure 9).
4. Slide washer (**E**) onto capscrew and secure with nut (**F**).



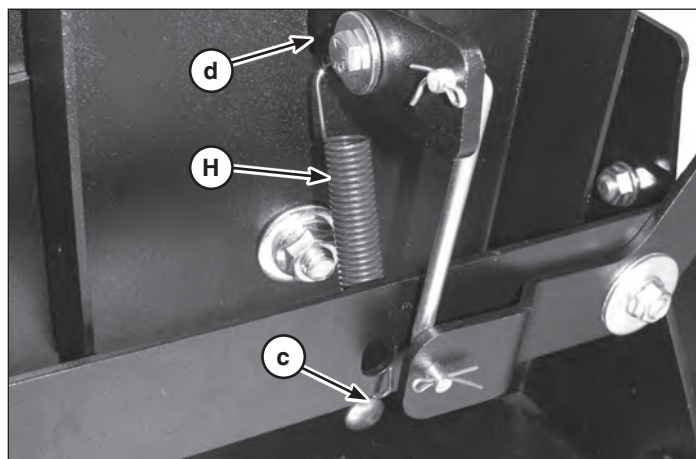
**Figure 9**

5. Insert pin (**a**, Figure 10) into latch bar (**b**) and secure with cotter pin (**G**). Slightly bend longer leg of cotter pin.



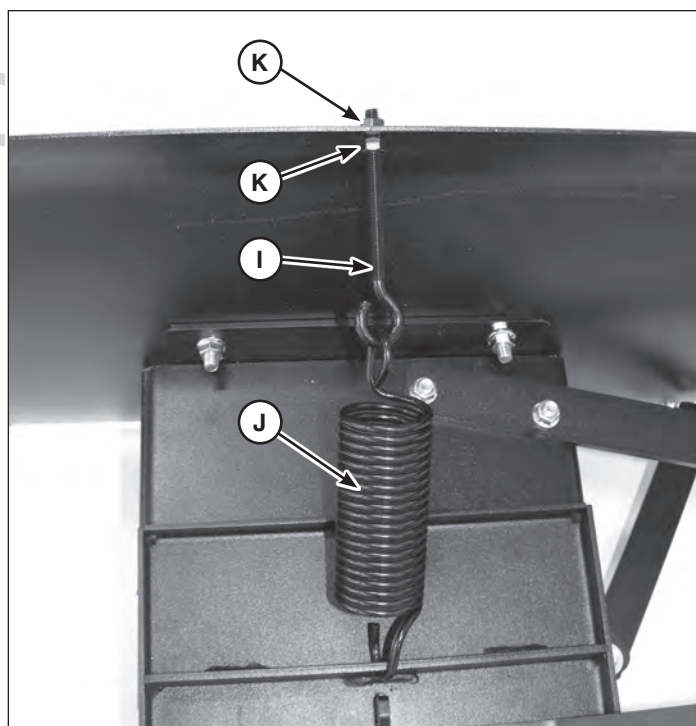
**Figure 10**

6. Attach spring extension (**H**, Figure 11) to notch (**c**) on blade assembly and hole (**d**) on hitch pivot assembly.



**Figure 11**

7. Install nut (**K**, Figure 12) approximately .75" onto eye bolt (**I**).
8. Insert larger, open-end of blade spring (**J**) into hole on hitch pivot assembly.
9. Hook other end of blade spring onto eye bolt.
10. Insert eye bolt into hole on blade assembly. Secure with second nut (**K**) and adjust the nut as needed for blade spring back tension.



**Figure 12**

## Assembly

11. Slide hitch pivot assembly (**e**, Figure 13) onto sub frame (**f**). Align holes on hitch pivot assembly and sub frame.

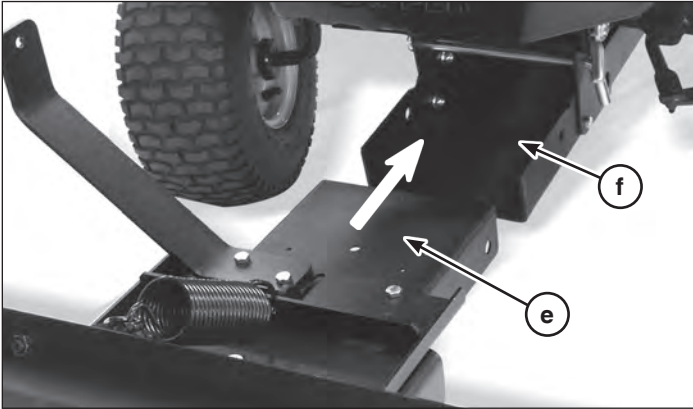


Figure 13

12. Slide hitch latch rod (**EE**, small frame / **HH**, large frame, Figure 14) through holes from step 11 and secure rod with hair pin (**B**).

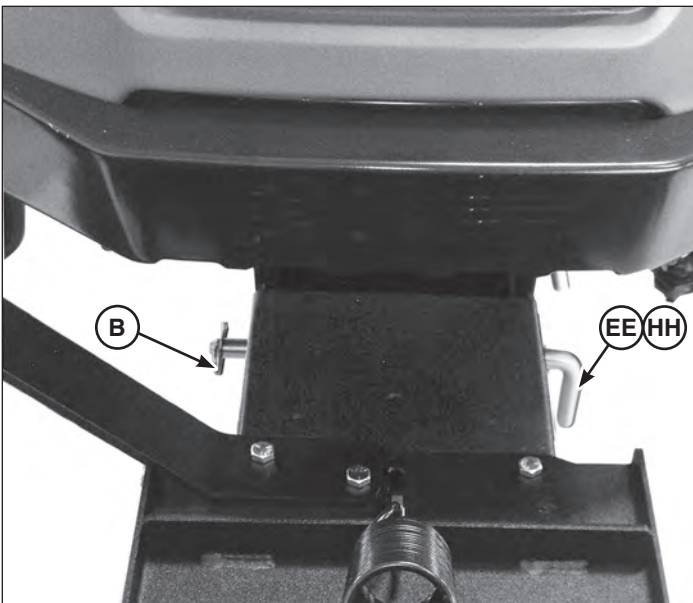


Figure 14

## Install Lift Support Assembly

1. Remove taptite screw (**a**, Figure 15) from right side of tractor frame.

**NOTE:** Retain taptite screw for use when snow blade is removed.

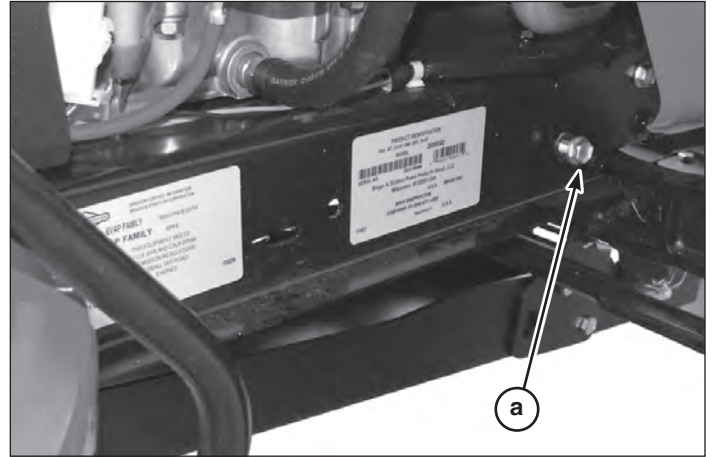


Figure 15

2. On the right side of tractor frame identify holes (**b**, Figure 16) that will be used to secure the lift support assembly.

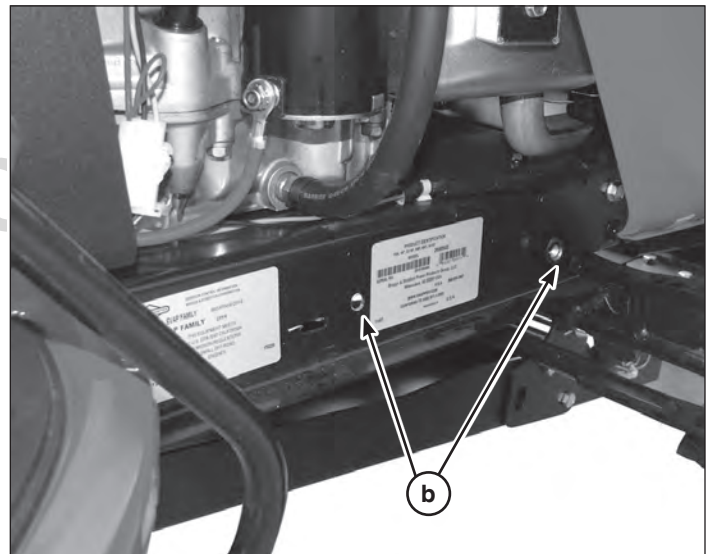


Figure 16

- Position lift support assembly (II) onto right side of tractor frame. Insert capscrew (L, Figure 17) into front hole of lift support assembly.

**NOTE:** For small frame tractor, attach heat shield on top of lift support assembly and secure with capscrew (L).

- Insert capscrew (M) into rear hole of lift support assembly and secure with nut (N).

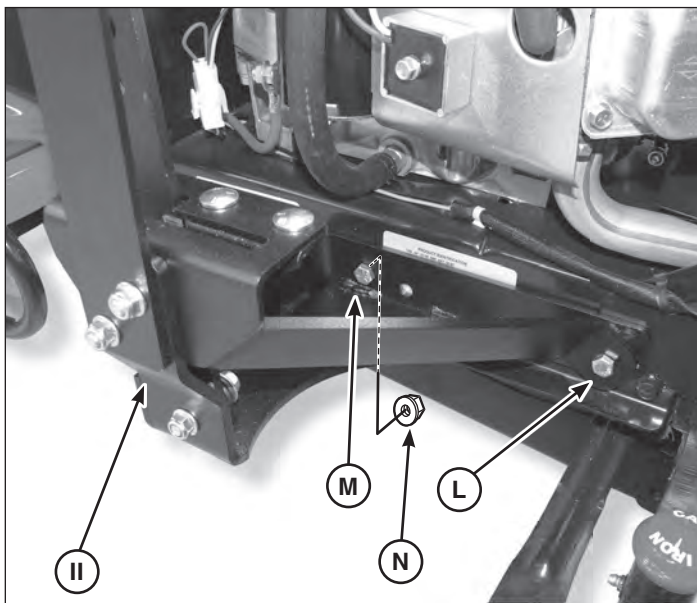


Figure 17

## Install Pivot Arm

- Secure lower end of front angle rod (KK) to blade with hair pins (B, Figure 20).

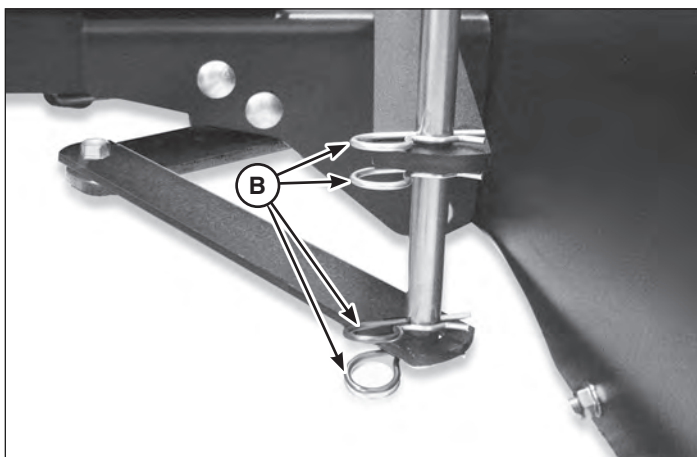


Figure 18

- Insert top angle rod (JJ, Figure 19) through hole (b) in lift support assembly.

**NOTE:** Position of handle of lift rod is down for tractors WITHOUT snow cabs. Position of handle of lift rod is up for tractors WITH snow cabs.

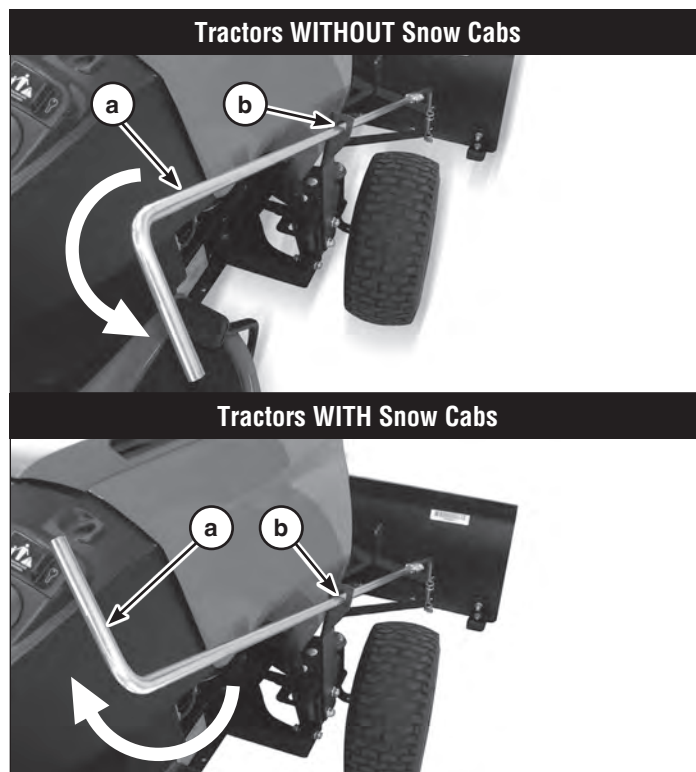


Figure 19

- Secure top angle rod (JJ, Figure 18) to front angle rod (KK) using capscrews (L) and nuts (N).

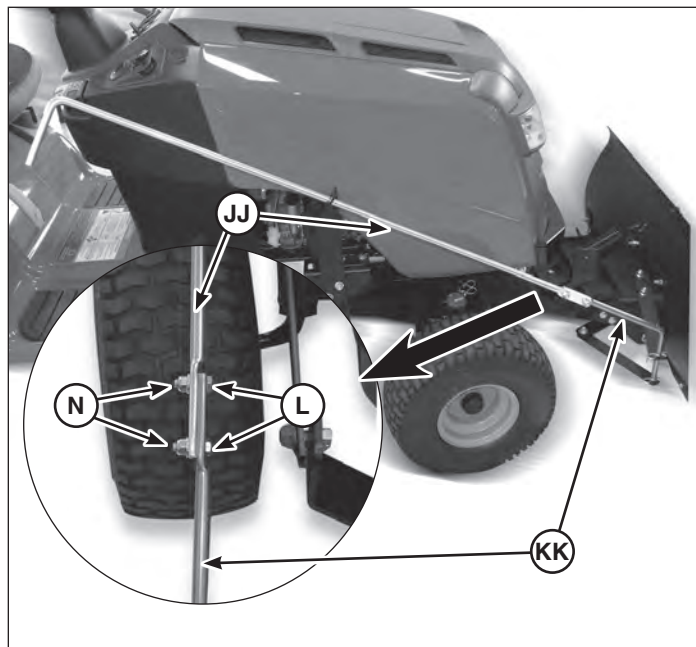


Figure 18



## Install Lift Handle

1. Attach handle (**MM**, Figure 21) to lift support assembly and secure with capscrews (**L**) and nuts (**N**).

**Note:** Attach handle in front of lift support assembly.

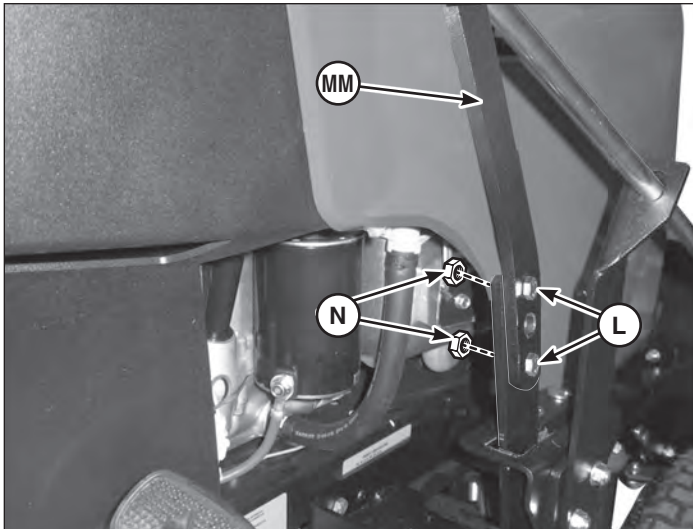


Figure 21

## Install Lift Arm

1. Attach short lift bar assembly (**LL**, Figure 22) to pivot assembly (**a**) using shoulder bolt (**O**) and nut (**P**).



Figure 22

2. Insert hook end (**b**) of short lift bar assembly into handle/lift support assembly (**c**) as shown in Figure 23.
3. Secure with hair pin (**B**).

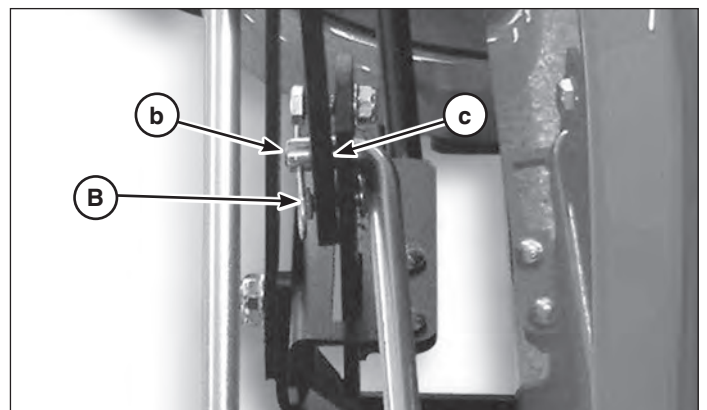


Figure 23

## DANGER

### OPERATING ON SLOPES CAN BE DANGEROUS

Never operate on slopes greater than 17.6% (10°) which is a rise of 3-1/2 feet (106 cm) vertically in 10 feet (607 cm) horizontally.

Operate the unit at a slow ground speed when driving onto slope. Avoid using brakes to control ground speed.

When operating on slopes that are greater than 15 % (8.5°) but less than 17.6%, use additional wheel weights or counterweights.

In addition to counterweights, use extra caution when operating on slopes. Drive UP and DOWN the slope, never across the face, use caution when changing directions and DO NOT START OR STOP ON SLOPE.

For additional traction, tire chains and a weight box can be added. Maximum weight added to tractor should not exceed 35 lbs. per wheel and 100 additional lbs. in weight box.

## IMPORTANT

**Note:** To prevent damage to the unit, always raise the blade BEFORE turning or backing up.

## WARNING

Perform the Safety System Interlock test found in your tractor Operator's Manual. If tractor does not pass the test, do not operate the tractor. See your authorized dealer. Under no circumstances should you attempt to defeat the safety system. Use caution when plowing a snow covered area. Snow can cover objects such as curbs, drop-offs, and other obstacles. Be familiar with the area you are plowing.

To prevent an explosion or fire, never store the tractor with fuel in the tank inside a building where an ignition source is present.

## Checks Before Starting

1. Refer to the Maintenance section of this manual to perform any needed service. Also, refer to the tractor Operator's Manual to perform any required service.
2. Remove any objects from the work area which might interfere with plowing activity.

## Skid Shoe Adjustment

1. Raise the blade off the ground and block with a piece of wood.
2. Loosen the bolts and move the skid shoes up or down to desired height. Tighten the bolts securely.

## Engine & Ground Speed Selection

Always run the engine at full throttle.

Set tractor speed to obtain the needed power to move the material. Operate at a safe speed, depending on conditions, so that you have complete control of the tractor. Rear wheel weights and chains are recommended for slippery surfaces.

A rear weight carrier is recommended for additional traction.

## Transporting

For maximum ground clearance, transport to and from work areas with the blade fully raised and positioned straight ahead.

## Starting & Stopping

1. Start the tractor engine. Set engine throttle to full.
2. Raise the attachment lift and travel to the work site.
3. Set the angling control to the desired angle.
4. Lower the attachment lift and begin plowing.
5. Raise the plow before backing up.
6. To stop the tractor, set ground speed to neutral and set the parking brake. Before leaving the seat, stop the engine, set the parking brake, remove the key, and wait for all moving parts to stop.

## Changing Angle of the Blade:

**Note:** It is easier to change the angle of the blade with the attachment raised.

1. Raise the attachment lift.
2. Turn the lever counterclockwise to release the angling mechanism and move the blade left or right. Push the angling lever forward fully to lock the blade in the left position. Pull the lever fully back to lock the blade in the right position. Move the lever slowly over center to lock in the centered position.

## Snow Plowing Tips

- Determine the best snow removal pattern before beginning.
- Plan the pattern so that you avoid pushing snow onto cleared areas.
- When land contour permits, it is best to travel in the longest direction to minimize turning.
- In very deep or heavy snow, it may be necessary to make the first pass with blade partially raised, then repeat each pass with the blade lowered to clear the material left on the surface. Also, it may be necessary to clear less than the full width of the blade or reduce ground speed.
- Snow tends to freeze into solid banks when plowed off a driveway or other large area. Because of this you may want to plow snow several feet past the edge of the drive to allow space for future plowing to build up.
- If pushing snow past the edges of driveways or sidewalks, be careful not to tear up the grass buried under snow. Lift the blade several inches off the ground to avoid damaging the grass.
- Spinning tires with tire chains can leave unsightly marks or permanent damage to asphalt or concrete driveways or sidewalks. Avoid sudden stops or starts.

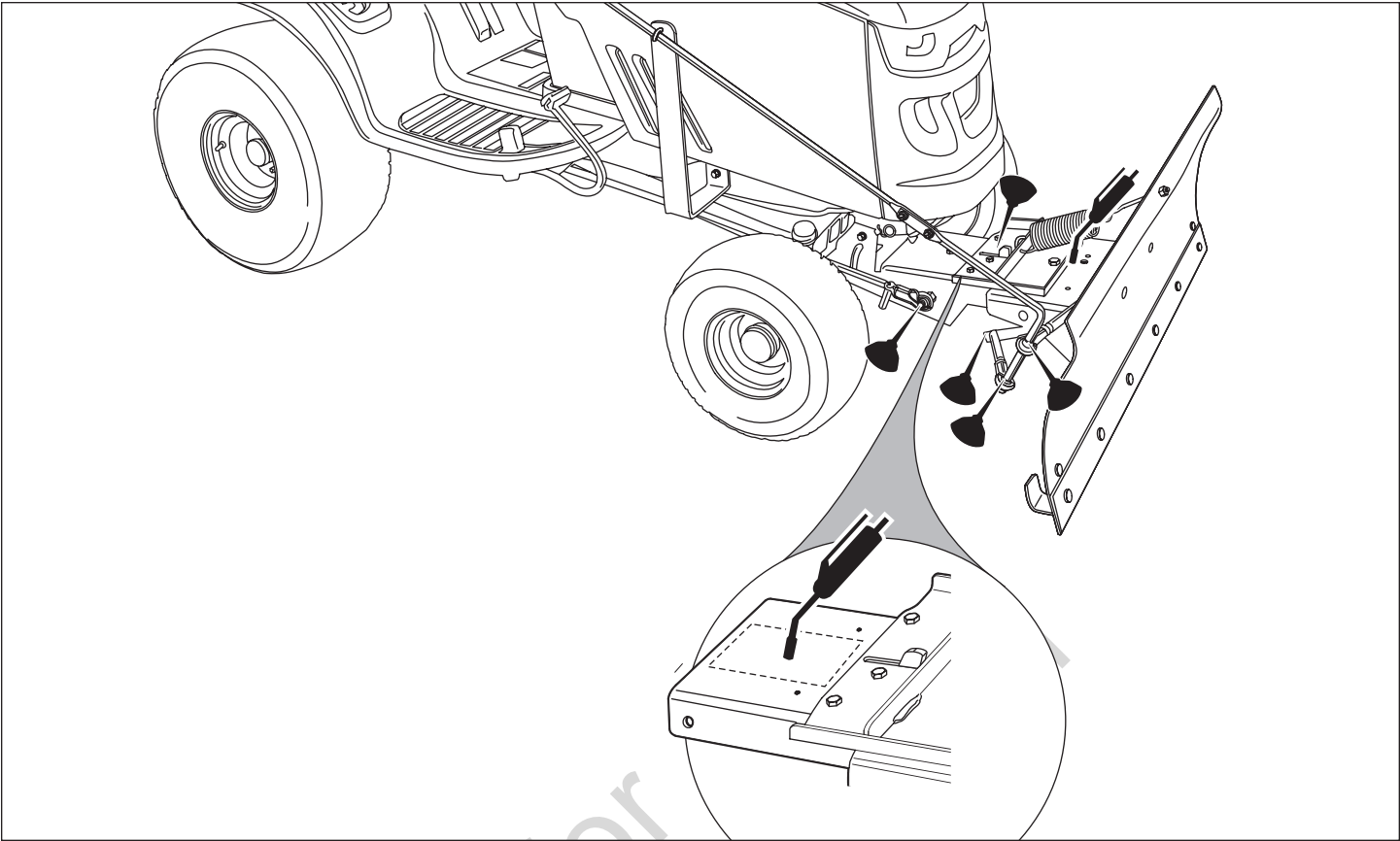



Figure 24

Schedule For Normal Care

**WARNING**

Before beginning any service work turn off the PTO, set the parking brake, turn off the ignition, and disconnect the spark plug wire(s).

Care Required	Schedule
Clean snow and ice from the snow blade.	After each use.
Lubricate snow blade.	Every 10 hours or at least once a year.

General Lubrication

Lubricate the snow blade as shown in Figure 24. Where an oil can is shown use 30 weight oil. Where a grease gun is shown, use lithium grease. Lubricate the following areas:

- Grease the blade pivot.
- Oil the blade lock pawl (see inset).



## BRIGGS &amp; STRATTON PRODUCTS WARRANTY POLICY

APRIL 2012

## LIMITED WARRANTY

Briggs & Stratton warrants that, during the warranty period specified below, it will repair or replace, free of charge, any part that is defective in material or workmanship or both. Transportation charges on product submitted for repair or replacement under this warranty must be borne by purchaser. This warranty is effective for and is subject to the time periods and conditions stated below. For warranty service, find the nearest Authorized Service Dealer in our dealer locator map at [www.briggsandstratton.com](http://www.briggsandstratton.com). The purchaser must contact the Authorized Service Dealer, and then make the product available to the Authorized Service Dealer for inspection and testing.

There is no other express warranty. Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to one year from purchase, or to the extent permitted by law. All other implied warranties are excluded. Liability for incidental or consequential damages are excluded to the extent exclusion is permitted by law. Some states or countries do not allow limitations on how long an implied warranty lasts, and some states or countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state or country to country.\*\*

## WARRANTY PERIOD

Item	Consumer Use	Commercial Use
Equipment	1 year	0

\*\* In Australia - Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. For warranty service, find the nearest Authorized Service Dealer in our dealer locator map at [BRIGGSandSTRATTON.COM](http://BRIGGSandSTRATTON.COM), or by calling 1300 274 447, or by emailing or writing to [salesenquires@briggsandstratton.com.au](mailto:salesenquires@briggsandstratton.com.au), Briggs & Stratton Australia Pty Ltd, 1 Moorebank Avenue, NSW, Australia, 2170.

The warranty period begins on the date of purchase by the first retail consumer or commercial end user, and continues for the period of time stated in the table above. "Consumer use" means personal residential household use by a retail consumer. "Commercial use" means all other uses, including use for commercial, income producing or rental purposes. Once a product has experienced commercial use, it shall thereafter be considered as a commercial use product for purposes of this warranty.

**No warranty registration is necessary to obtain warranty on Briggs & Stratton products. Save your proof of purchase receipt. If you do not provide proof of the initial purchase date at the time warranty service is requested, the manufacturing date of the product will be used to determine the warranty period.**

## ABOUT YOUR WARRANTY

We welcome warranty repair and apologize to you for being inconvenienced. Warranty service is available only through Briggs & Stratton Authorized Service Dealers. Most warranty repairs are handled routinely, but sometimes requests for warranty service may not be appropriate. This warranty only covers defects in materials or workmanship. It does not cover damage caused by improper use or abuse, improper maintenance or repair, or normal wear and tear.

**Improper Use and Abuse** - The proper, intended use of this product is described in the Operator's Manual. Using the product in a way not described in the Operator's Manual or using the product after it has been damaged will void your warranty. Warranty is not allowed if the serial number on the product has been removed or the product has been altered or modified in any way, or if the product has evidence of abuse such as impact damage, or water/chemical corrosion damage.

**Improper Maintenance or Repair** - This product must be maintained according to the procedures and schedules provided in the Operator's Manual, and serviced or repaired using genuine Briggs & Stratton parts or equivalent. Damage caused by lack of maintenance or use of non-original parts is not covered by warranty.

**Normal Wear** - Like all mechanical devices, your unit is subject to wear even when properly maintained. This warranty does not cover repairs when normal use has exhausted the life of a part or the equipment. Maintenance and wear items such as filters, belts, cutting blades, and brake pads (except engine brake pads) are not covered by warranty due to wear characteristics alone, unless the cause is due to defects in material or workmanship.

**Other Exclusions** - This warranty excludes damage due to accident, abuse, modifications, alterations, improper servicing, freezing or chemical deterioration. Attachments or accessories that were not originally packaged with the product are also excluded. This warranty also excludes failures due to acts of God and other force majeure events beyond the manufacturer's control.

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