

# **ATTACHMENT OPERATOR'S MANUAL**



## **Blade & Hitch**

<b>Mfg. No.</b>	<b>Description</b>
1693754	42" Angling Dozer Blade
1695939	48" Angling Dozer Blade
1694147	Pivot Hitch
1695195	Sub-frame Hitch

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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.

## **Unpacking Recommendations**

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**Hardware Bag Contents on Pages 5-8 are a combination of the kits below.**

**Please note the designated symbols for each kit when unpacking the contents.**

**It is recommended that hardware for each kit is kept separate during the assembly process.**

**▲ 1693754 42" Angling Dozer Blade**

**1695939 48" Angling Dozer Blade**

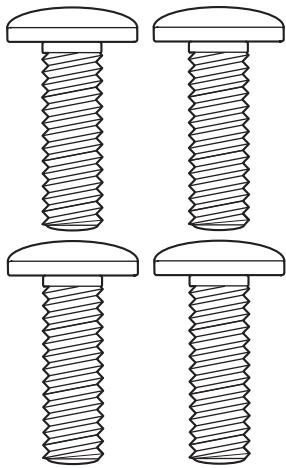
**● 1694147 Pivot Hitch**

**■ 1695195 Sub-frame Hitch**

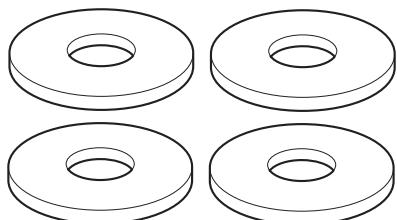
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## Hardware Bag Contents

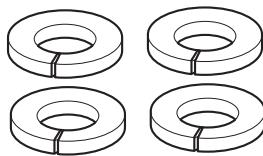
**A - CARRIAGE BOLT, ■**  
3/8"-16 x 1.0" (Qty. 4)



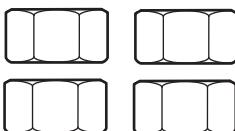
**B - WASHER, ■**  
.341" ID x 1.0" OD x 13" THK (Qty. 4)



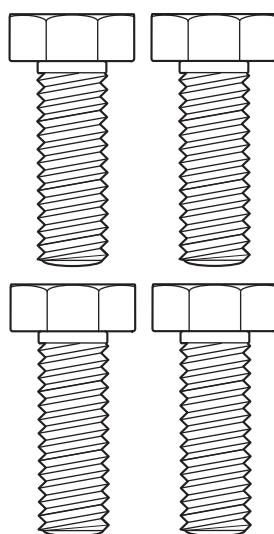
**C - LOCKWASHER, ■**  
5/16" (Qty. 4)



**D - HEX NUT, ■**  
5/16"-18 (Qty. 4)



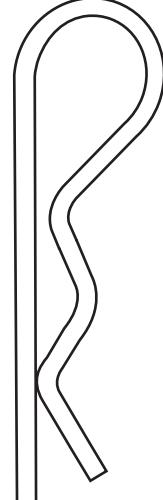
**E - CAPSCREW, ■**  
3/8"-16 x 1.0" (Qty. 4)



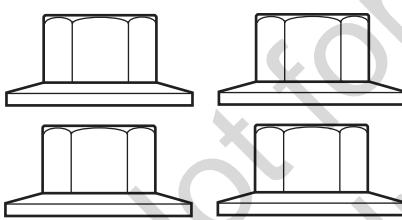
**G - CLEVIS PIN, ■**  
.50" x 2.12" (Qty. 1)



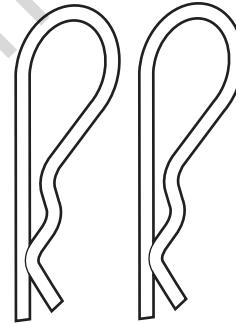
**H - HAIR PIN, ■**  
(Qty. 1)



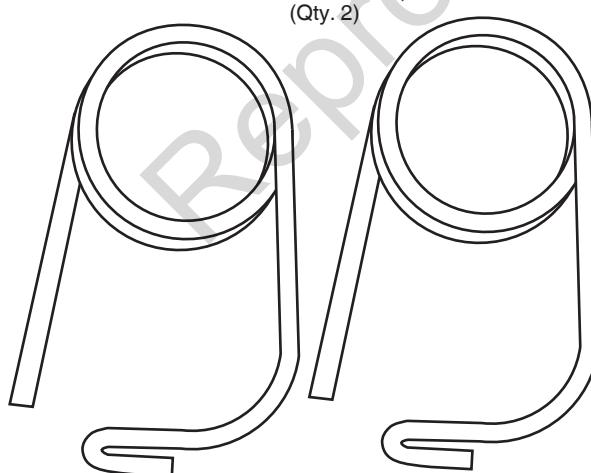
**F - FLANGE NUT, ■**  
3/8"-16 (Qty. 4)



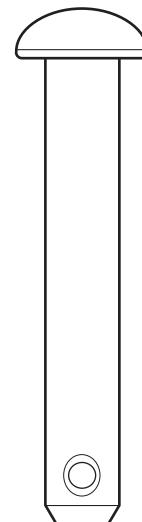
**I - HAIR PIN, ■**  
(Qty. 2)



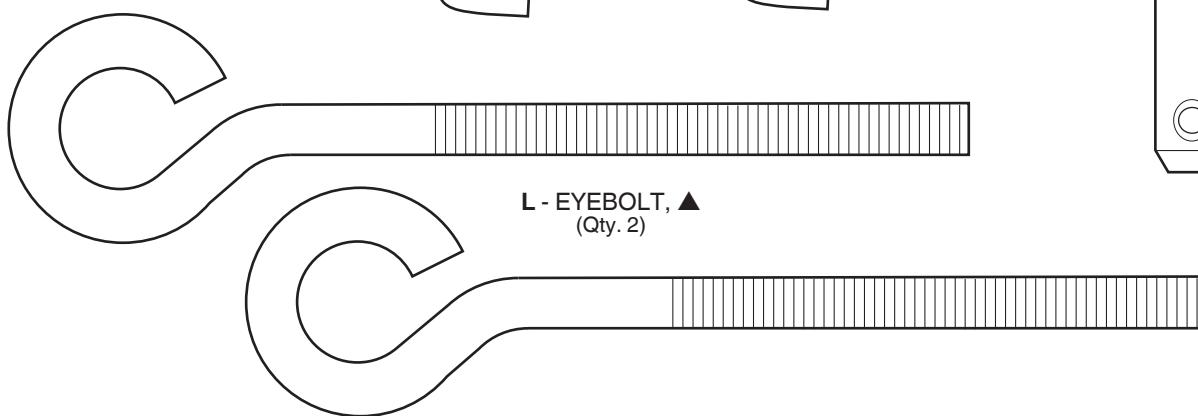
**J - SAFETY CLIP, ■**  
(Qty. 2)



**K - CLEVIS PIN, ■**  
.375" x 2.375" (Qty. 1)

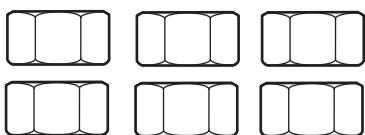


**L - EYEBOLT, ▲**  
(Qty. 2)

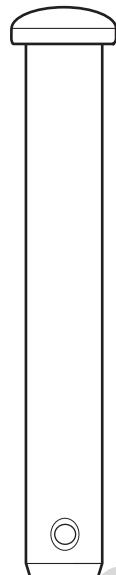


## Hardware Bag Contents

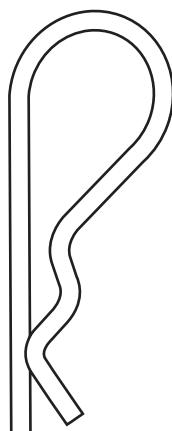
M - HEX NUT, ▲  
5/16"-18 (Qty. 6)



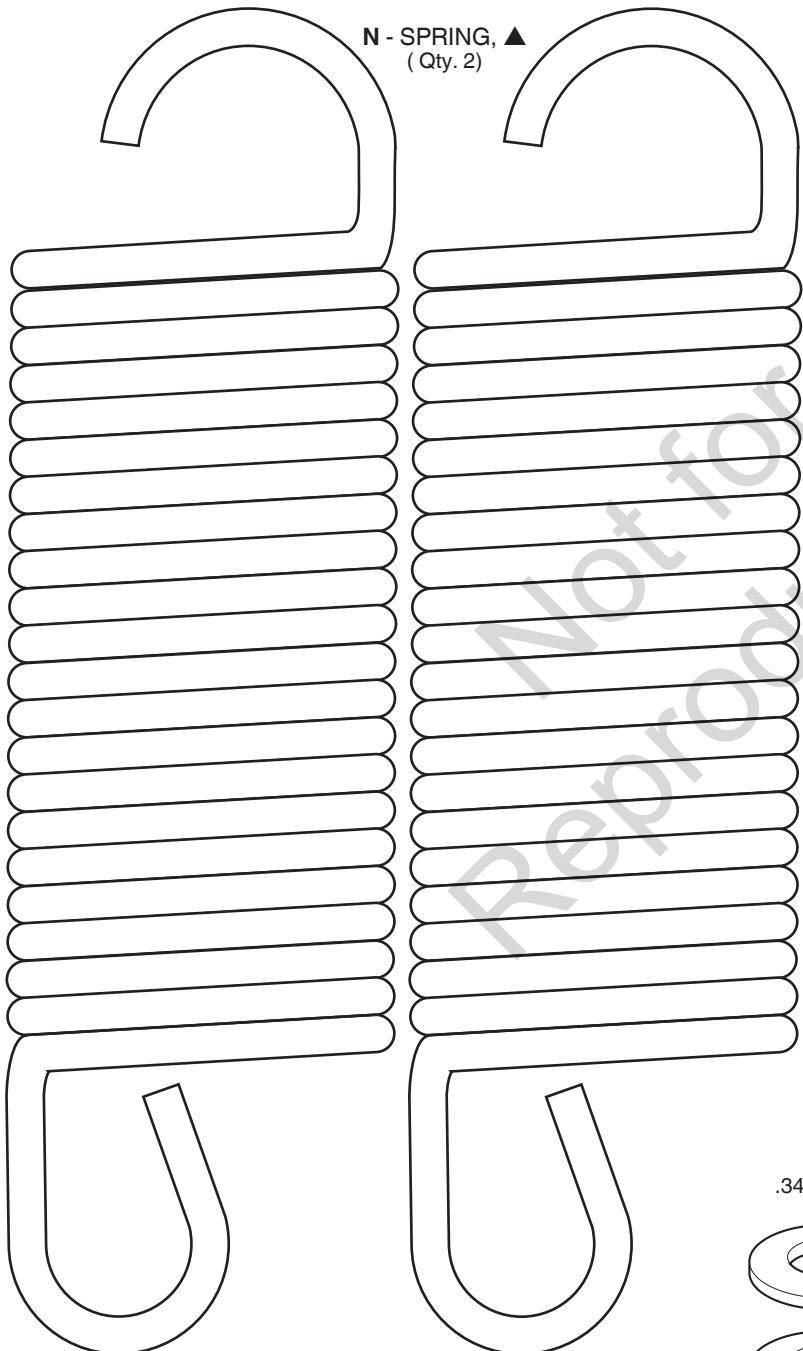
O - PIVOT PIN, ●  
.50" x 2.75" (Qty. 1)



P - HAIR PIN, ●  
(Qty. 1)



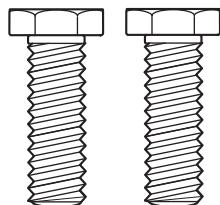
N - SPRING, ▲  
(Qty. 2)



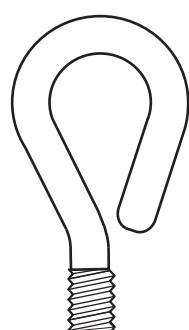
R - LOCKWASHER, ●  
5/16" (Qty. 2)



Q - CAPSCREW, ●  
5/16"-18 x 1.0" (Qty. 2)



T - EYEBOLT, ●  
(Qty. 1)



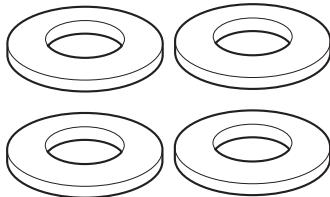
S - HEX NUT, ●  
5/16" - 18 (Qty. 2)



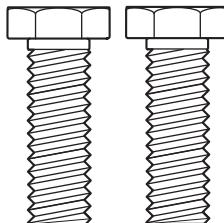
U - HEX NYLON NUT, ●  
1/2" - 20 (Qty. 1)



W - WASHER, ▲  
.34" x .75" x .06" THK (Qty. 4)

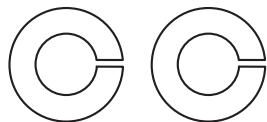


V - CAPSCREW, ▲  
5/16"-18 x 1.25" (Qty. 2)

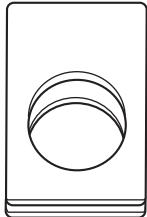


## Hardware Bag Contents / Hardware

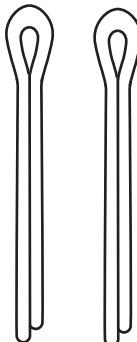
**X - LOCKWASHER, ▲**  
5/16" (Qty. 2)



**Y - CLEVIS, ▲**  
(Qty. 1)



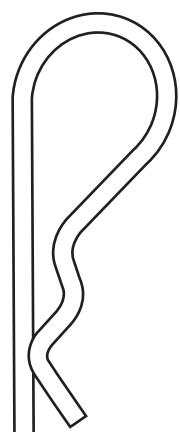
**Z - COTTER PIN, ▲**  
(Qty. 2)



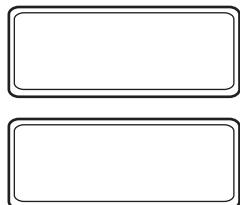
**AB - WASHER, ▲**  
.51 X 1.0" X .10 (Qty. 1)



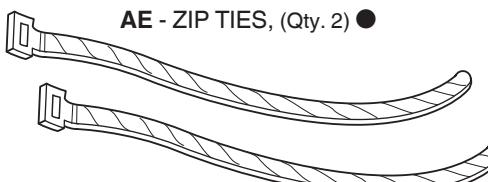
**AC - HAIR PIN, ▲**  
(Qty. 1)



**AD - REFLECTOR, ■**  
(Qty. 2)



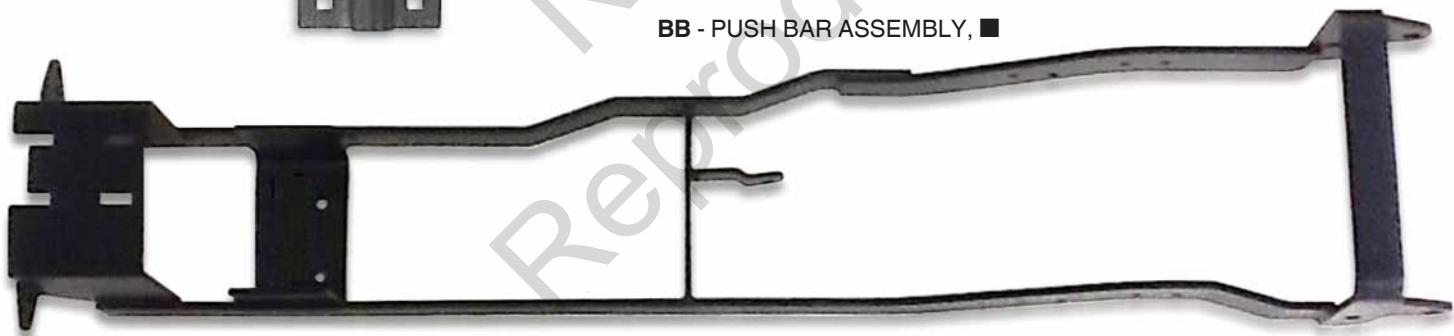
**AE - ZIP TIES, (Qty. 2) ●**



**AA - SUPPORT CLAMP, ■**



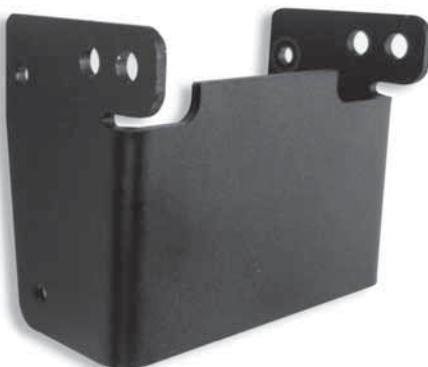
**BB - PUSH BAR ASSEMBLY, ■**



**CC - HOOK ASSEMBLY, ■**



**DD - PUSH BAR LATCH, ■**



**EE - LOCK DOWN HYDRAULIC, ■**



**FF - LIFT BAR, ■**



## Hardware

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GG - LATCH ROD, ■



HH - HITCH ROD, Small, ■



II - LIFT LEVER ASSEMBLY, ■



JJ - ROD & LIFT ASSEMBLY, ■



KK - PIVOT ASSEMBLY, ●



LL - HITCH ROD, Large, ■



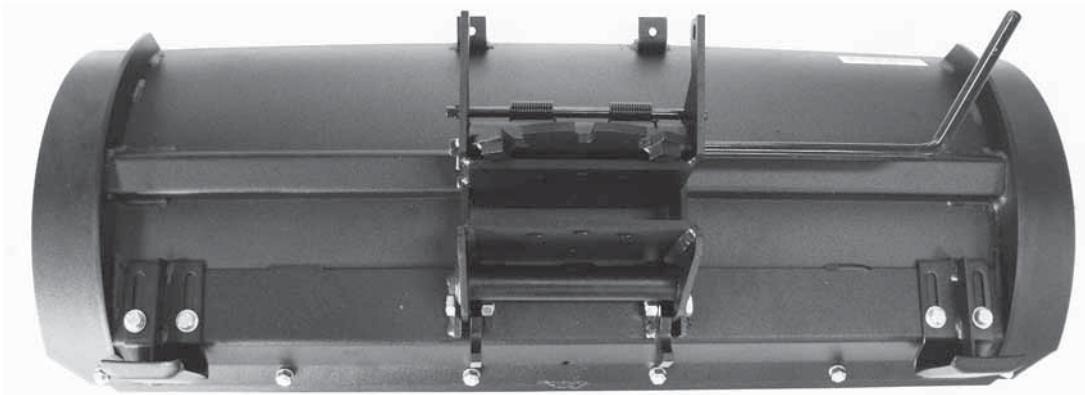
MM - SUPPORT CONTROL ROD, ●



NN - BLADE CONTROL HANDLE, ▲



OO - PIVOT CONTROL ROD, ▲



PP - BLADE ASSEMBLY, ▲



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 dozer 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 dozer.
- Turn off the PTO to disengage the blades when not mowing.
- DO NOT mow in reverse unless absolutely necessary. Always look down and behind before and while travelling in reverse.
- 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.
  - b. Reduce loads on hillsides. It is recommended that the collection system be kept only half full when negotiating any slopes. Start mowing on slopes when the collection system is empty.
  - c. Mow up and down the face of slopes; never across the face of any slope.
- **Never operate on slopes greater than 17.6% (10°).**

### WARNING

ALWAYS shut off the tractor. Disengage the PTO, and allow all moving parts to stop BEFORE disconnecting or clearing tube, or emptying catcher.

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, rider and mower 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.

## Assembly

### **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).

Refer to "Tractor" operating manual for mower removal.

**NOTE:** Secure mower wire harness to frame, away from moving parts, using zip ties (**AE**) provided.

### Assemble Hitch

1. Attach the support clamp (**AA**, Figure 1) to the push bar assembly (**BB**) with carriage bolts (**A**), washers (**B**), lockwashers (**C**), and nuts (**D**). **Do not tighten the hardware at this time.**
2. Insert hook assembly (**CC**) into support clamp.

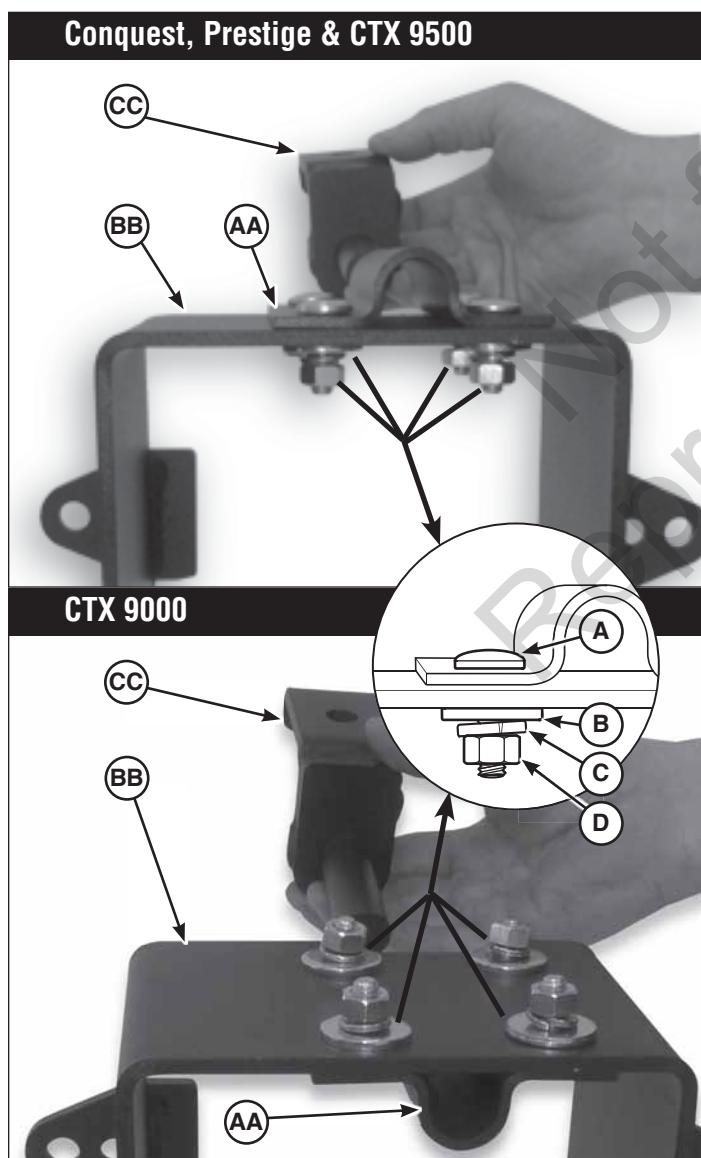


Figure 1

### Assemble Push Bar Latch

1. Attach push bar latch (**DD**, Figure 2) onto push bar assembly (**BB**). Secure with capscrews (**E**) and nuts (**F**) on both sides.

**NOTE:** Refer to Figure 2 for four wheel drive and two wheel drive push bar latch placement.

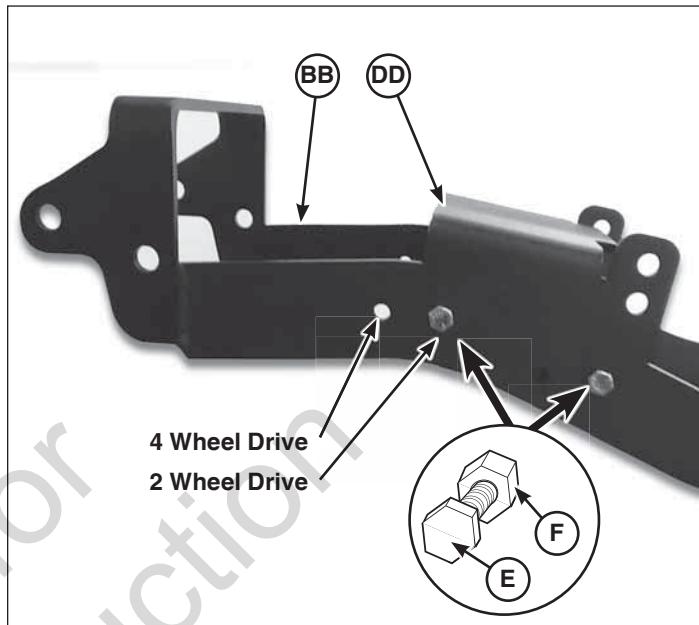


Figure 2

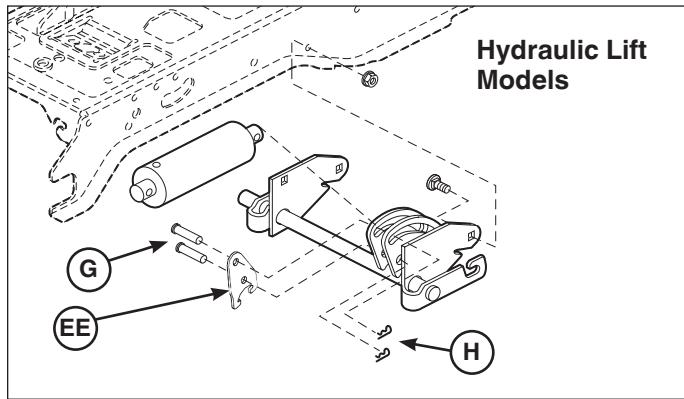
### Install Lift Lever Kit

For tractors with non-manual or non-hydraulic factory installed lift lever, use Lift Lever Kit 1694947.

## Install Lock Plate -

### Hydraulic Lift Models Only

1. Install the lock plate (**EE**, Figure 3) with existing pin and additional pin (**G**). Secure with existing hair pin and additional hair pin (**H**). The pre-existing washers are not used with the lock plate.

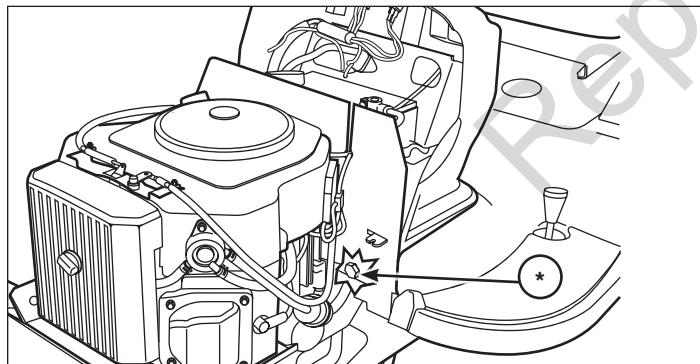


**Figure 3**

### Manual Lift Models Only

**NOTE:** The following section applies to tractors with factory installed lift lever ONLY.

1. Place the lift lever in the attachment-raised (back) position. Take note of the position of the spring through the lift bar (**FF**, Figure 5). It will be required to reinstall the spring through the lift bar.
2. Loosen the manual lift adjustment bolt (\*, Figure 4) until the bolt can be slid out of the groove in the bulkhead. Remove the spring and bolt and set aside.

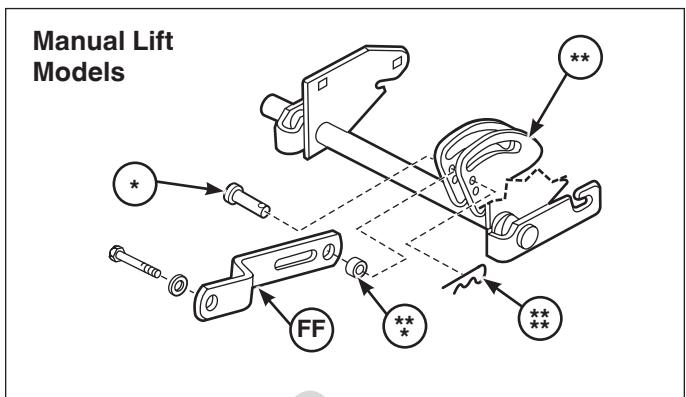


**Figure 4**

3. Remove the pin (\*, Figure 5) securing the lift bar.

**NOTE:** If the lift bars are different, replace existing lift bar with provided lift bar using existing hardware.

4. Re-install the pin from Step 3 through the top hole in the lift cam (\*\*), through the rear hole in the lift bar, through the spacer (\*\*\*) and secure with the hair pin (\*\*\*\*) as shown in Figure 5.



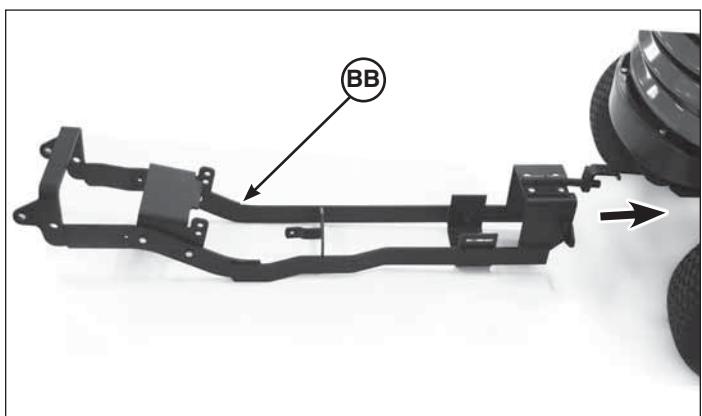
**Figure 5**

5. Place the lift lever in the attachment-lowered (forward) position.
6. Reinstall the lift assist spring in its original orientation.
7. Reinstall the manual lift adjustment bolt (Figure 4) in the bulkhead and tighten.

## Install Push Bar Assembly

1. Slide the push bar assembly (**BB**, Figure 6) under the tractor.

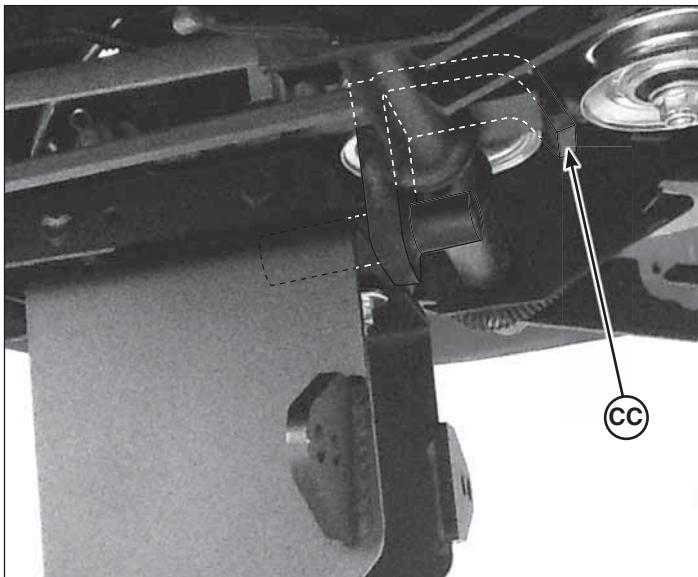
**NOTE:** For 4 wheel drive tractors, insert push bar from side of tractor instead of front.



**Figure 6**

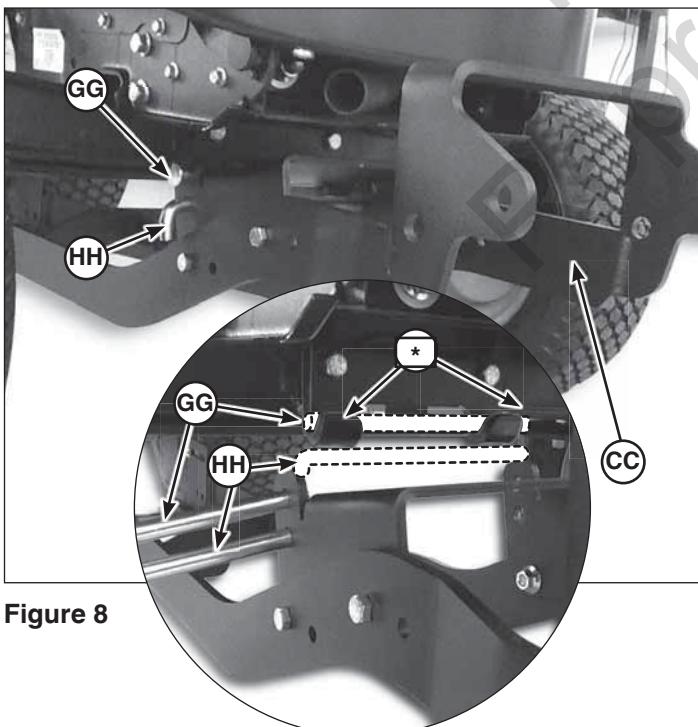
## Assembly

2. Raise the rear of the hitch and place the hook (**CC**, Figure 7) over the lift shaft between the welded washers.



**Figure 7**

3. Connect the front of the hitch to the tractor J-hooks (\*, Figure 8) using the latch rod (**GG**) and a hair pin (**I**) in the top holes of the push bar latch.
4. Secure the front of the hitch to the tractor by attaching the hitch rod (**HH**) and a hair pin in the bottom holes of the push bar latch.



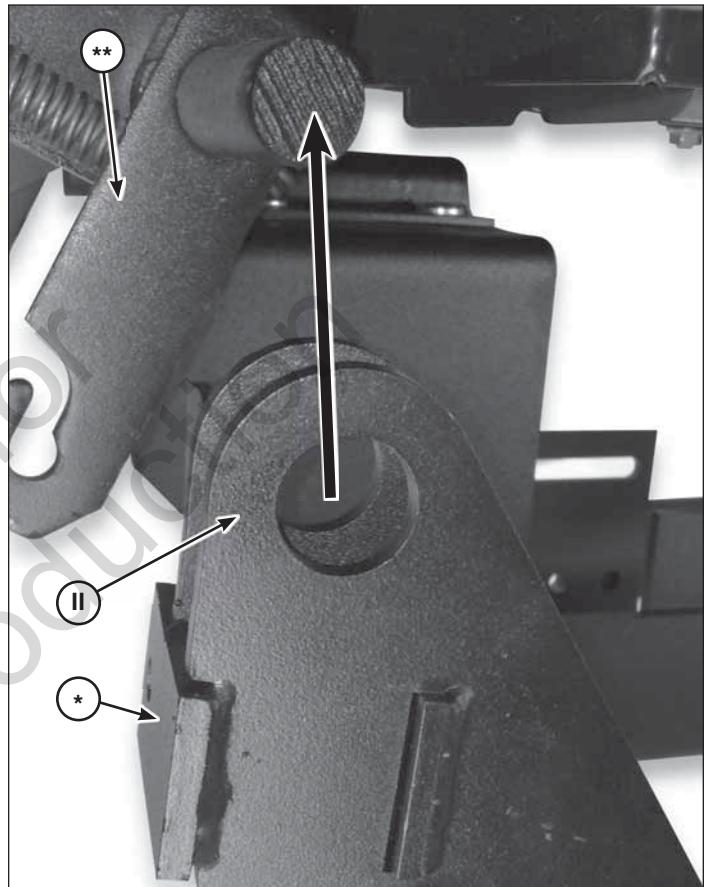
**Figure 8**

5. Push the support clamp backwards until it is snug against the hook assembly. Tighten the nuts on the support clamp.

## Install Lift Rod

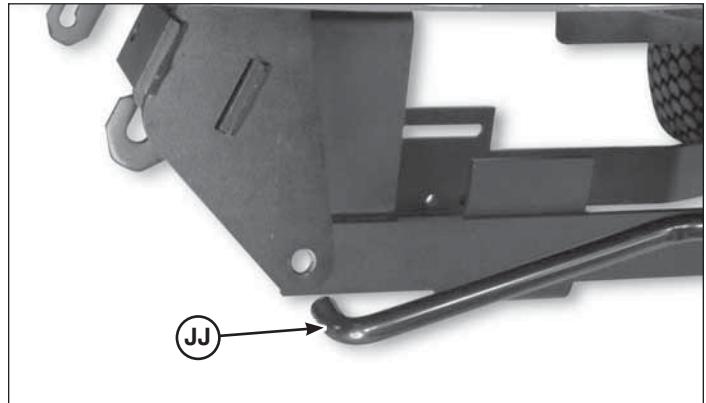
**NOTE:** The following section applies to tractors with factory installed lift lever AND/OR hydraulic lift models.

1. Slide the lift lever assembly (**II**, Figure 9) onto the end of the tractor lift shaft under the right side footrest. Use the tabs (\*) on the lift lever to capture the tractor lift arm (\*\*).



**Figure 9**

2. Insert the rear of the rod and lift assembly (**JJ**, Figure 10) into the bottom of the lift lever.



**Figure 10**

3. Secure rod and lift assembly with safety clip (\*, Figure 11). Secure lift lever assembly with clevis pin (K) and safety clip (J).

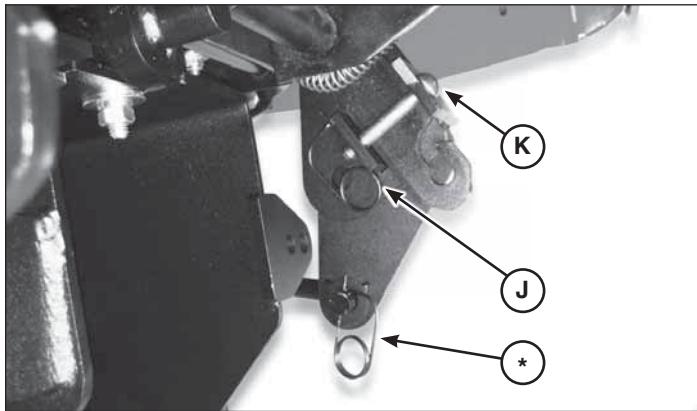


Figure 11

## Blade Assembly

1. Insert threaded end of eyebolt (L, Figure 12) through the lug hole on the blade assembly (PP). Screw on nut (M) just far enough so that it is flush with the end of the eyebolt.
2. Hook the large end of the springs (N) into the pivot frame (\*). Using a pliers, stretch the springs to hook the opposite ends to the eyebolts.
3. Tighten the nut on each eyebolt enough to expose about 3/4" of thread.
4. Holding the first nut with a wrench, add a second nut (M) to each eyebolt, and tighten securely against the first nut to act as a jam nut.

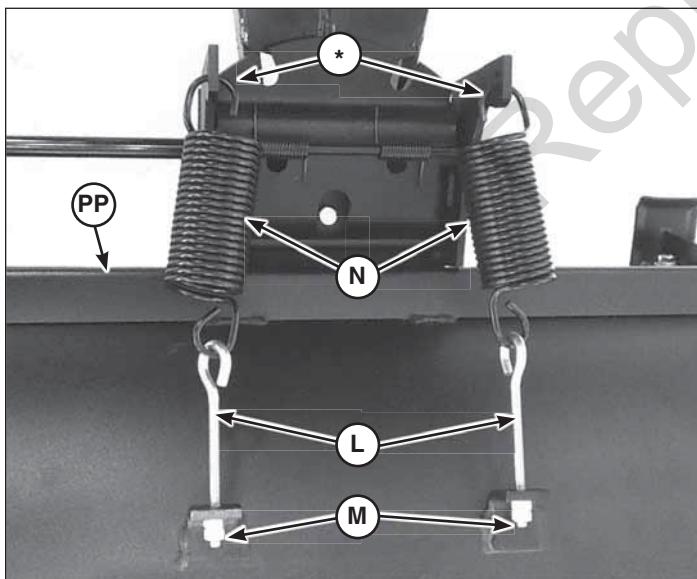


Figure 12

## Pivot & Blade Assembly

1. Insert the front of the pivot assembly (KK, Figure 13) into the rear (\*) of the blade assembly.

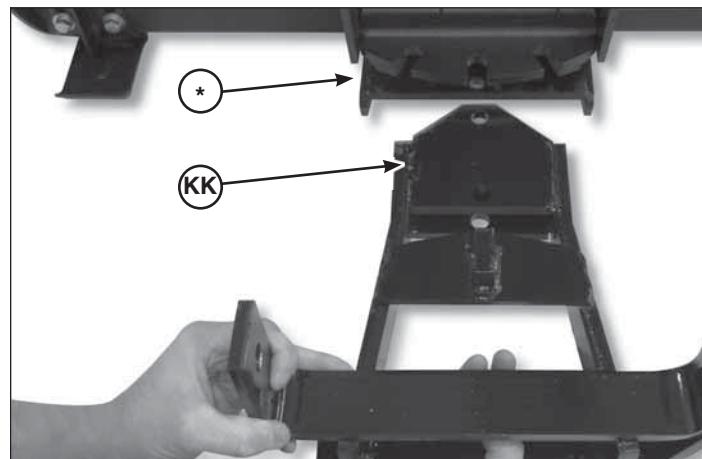


Figure 13

2. Insert pin (O, Figure 14) down through front holes in blade and push bar. Secure with a hair pin (P).



Figure 14

## Assembly

3. Position the pivot and blade assembly in front of the sub-frame hitch.
4. Secure the pivot and blade assembly to the front set of holes in the sub-frame hitch and secure using the large hitch rod (LL, Figure 15) and safety clip (J).

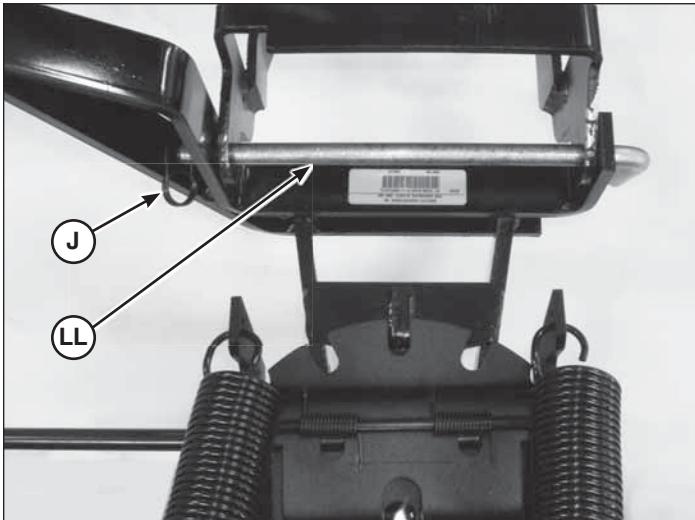


Figure 15

## Lift Rod Installation

1. Insert the end of the rod and lift assembly (\*, Figure 16) through hole in upright of pivot assembly (\*\*), and secure with spring clip (\*\*\*).

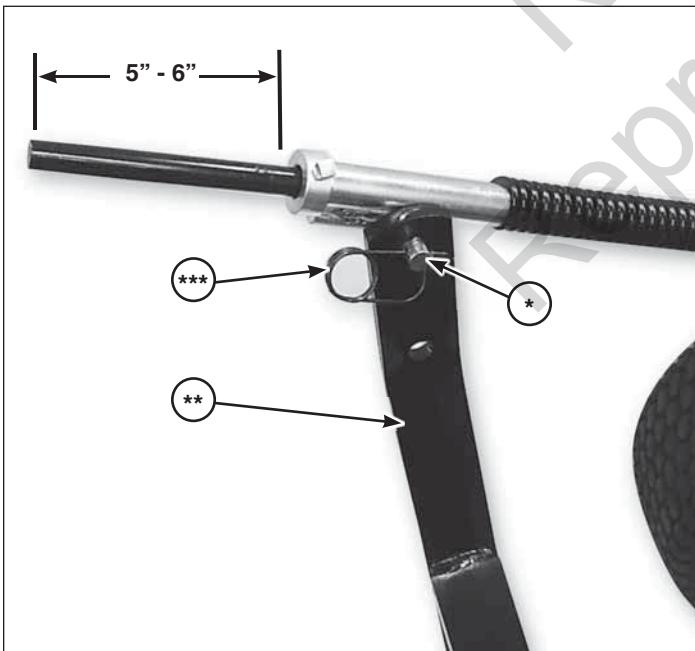


Figure 16

**NOTE:** The rod guide (Figure 16) should be installed in the lower hole for hydraulic lift applications. For manual lift applications, the rod guide may be installed in either hole. The upper hole provides reduced lift effort; the lower hole provides increased lift height.

## Angling Control Rod Installation

**NOTE:** If installing blade on a unit equipped with a snow-cab, the support control rod is not required, skip Steps 1-5 and refer to your "Snow Cab" manual.

1. Remove the torx screw (\*, Figure 17) and clips (\*\*) from the right foot rest pad. Peel the foot rest pad back.

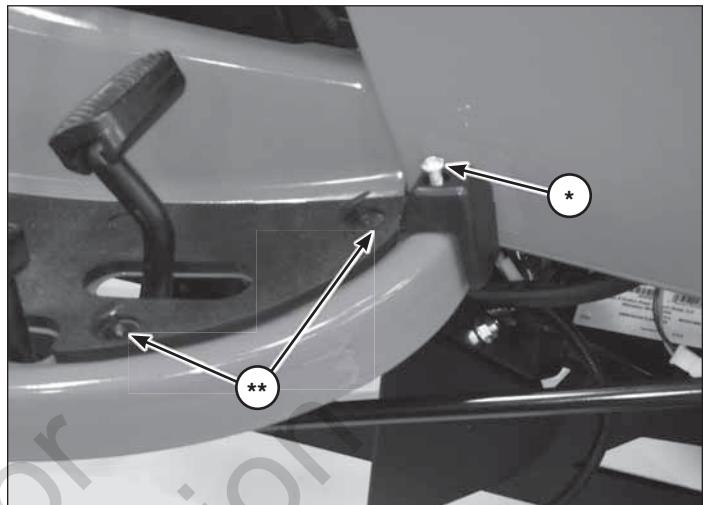


Figure 17

2. Remove the taptite screw (\*, Figure 18).

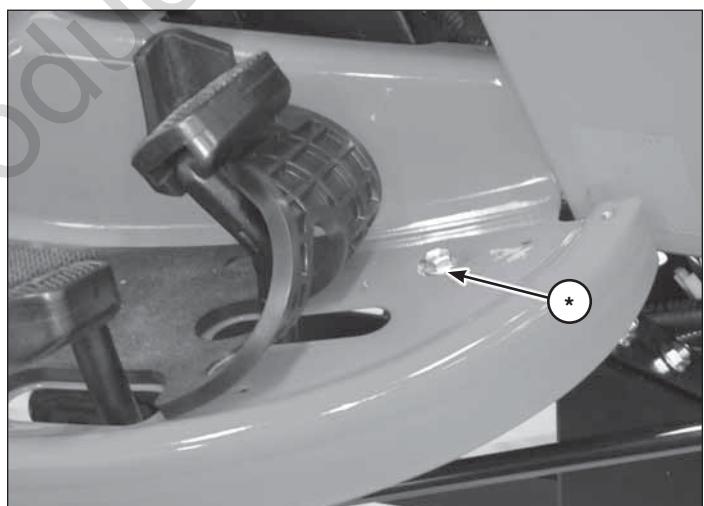
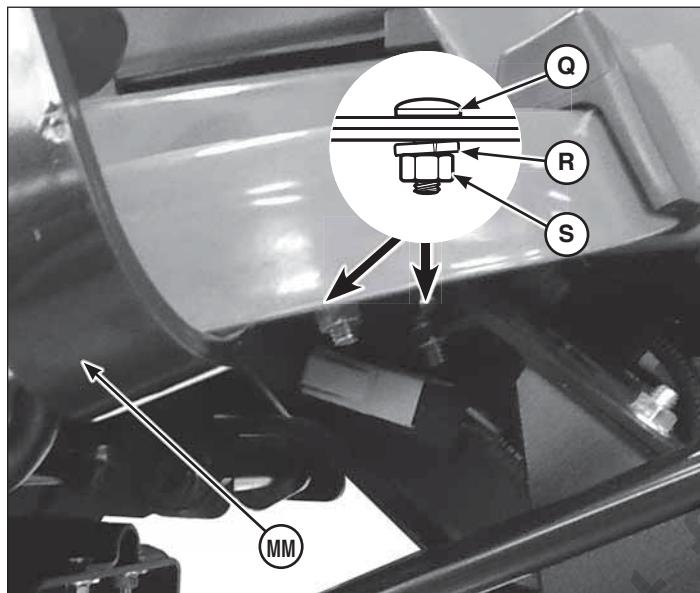


Figure 18

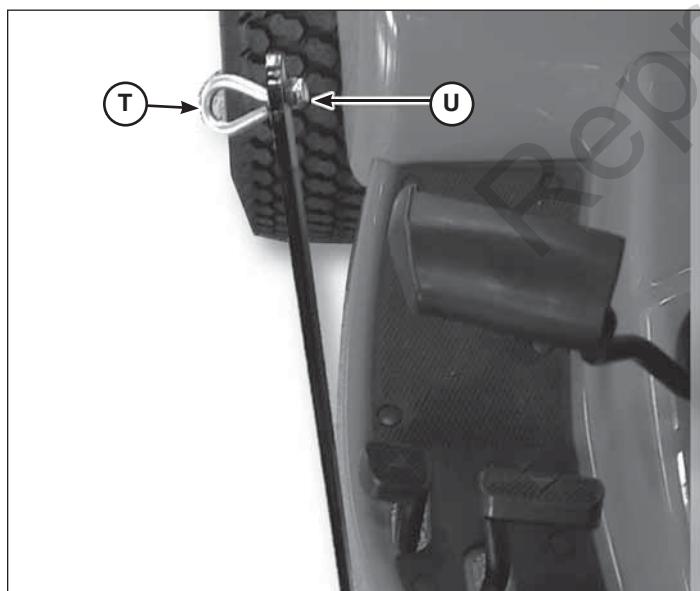
3. Mount the support control rod (**MM**, Figure 19) to the bottom of the frame foot rest support. Secure using two capscrews (**Q**), lockwashers (**R**), and nuts (**S**).

*NOTE: The inside hole used with the inside capscrew can be accessed through the gap between the foot rest, dashboard side and bulk head in front of the brake pedal.*



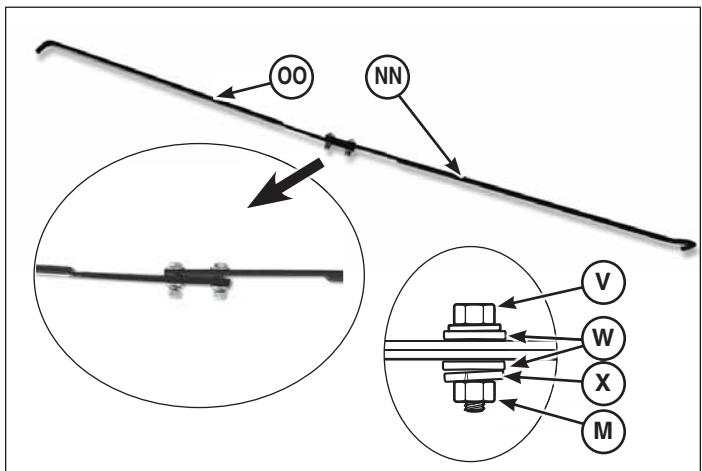
**Figure 19**

4. Reinstall the foot rest pad.  
5. Insert eyebolt (**T**, Figure 20) into hole at top of support control rod securing with nut (**U**).



**Figure 20**

6. Assemble blade control handle (**NN**, Figure 21) to pivot control rod (**OO**) using capscrews (**V**), washers (**W**), lock washers (**X**) and nuts (**M**).



**Figure 21**

7. Attach clevis (**Y**, Figure 22) to blade release lever (\*) using cotter pins (**Z**). Slightly bend longer leg of cotter pins.



**Figure 22**

## Assembly

8. Insert handle assembly (\*, Figure 23) through eyebolt (T).

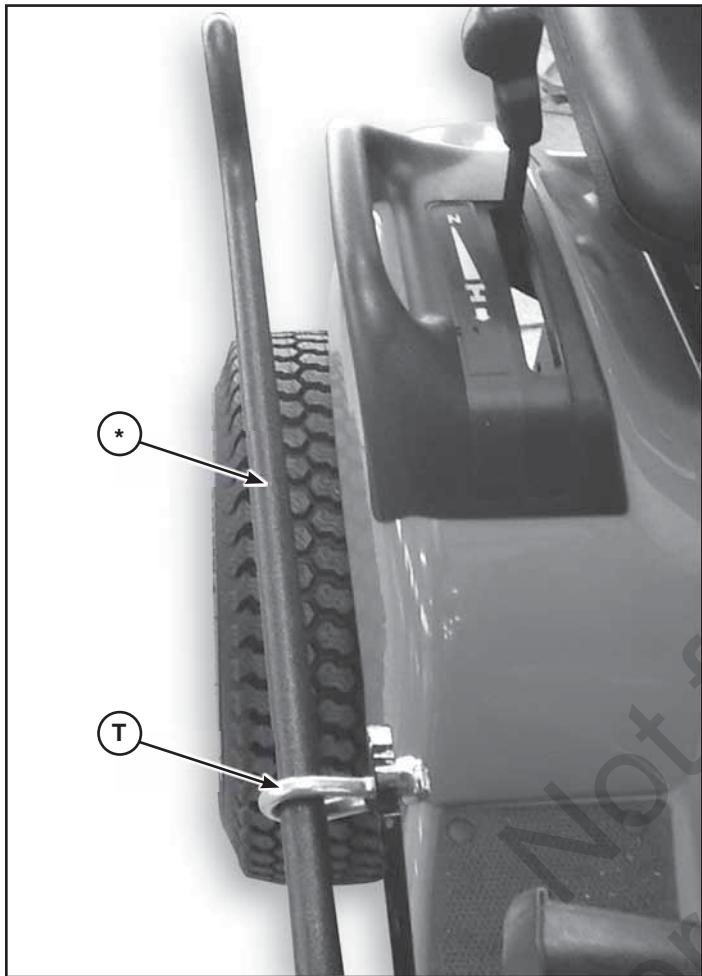


Figure 23

9. Insert handle assembly (\*, Figure 24) through clevis on blade release lever. Secure with washer (AB) and hair pin (AC).

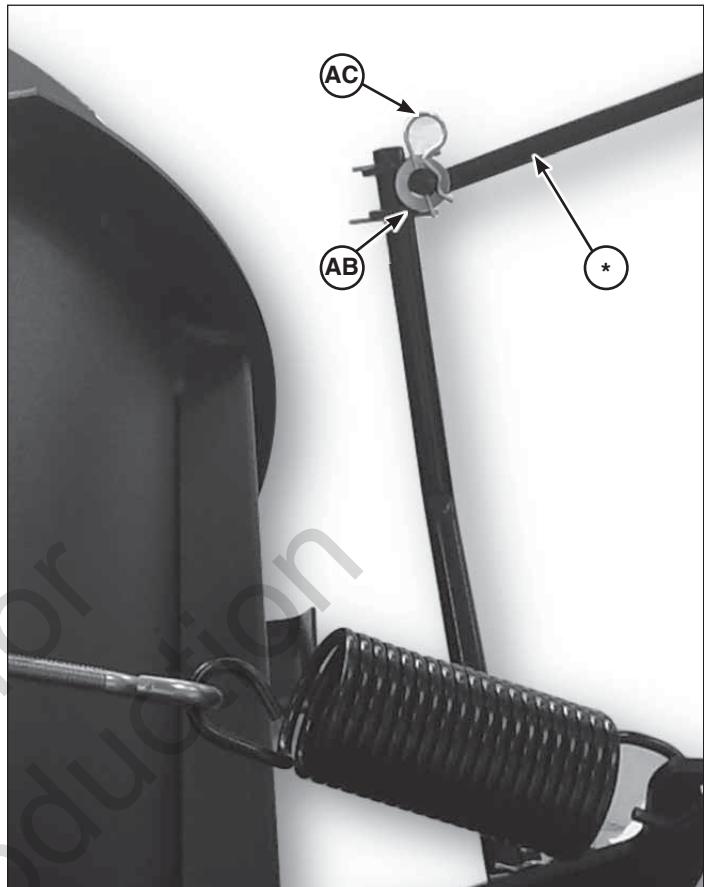


Figure 24

10. Place reflectors (AD, Figure 25) on rear of tractor below operator's seat.

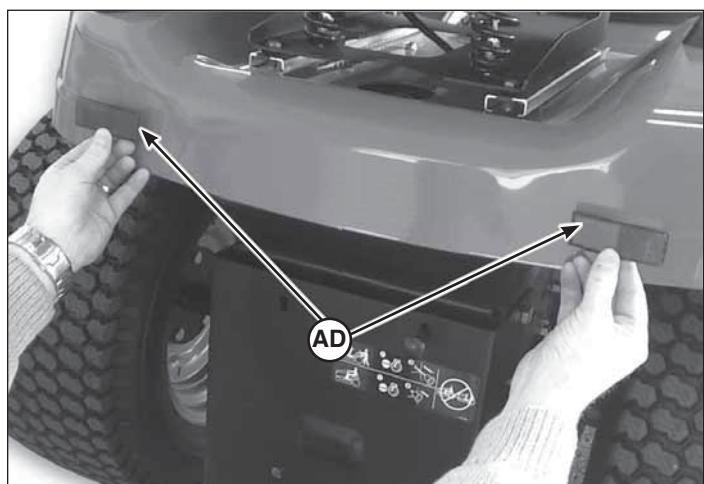
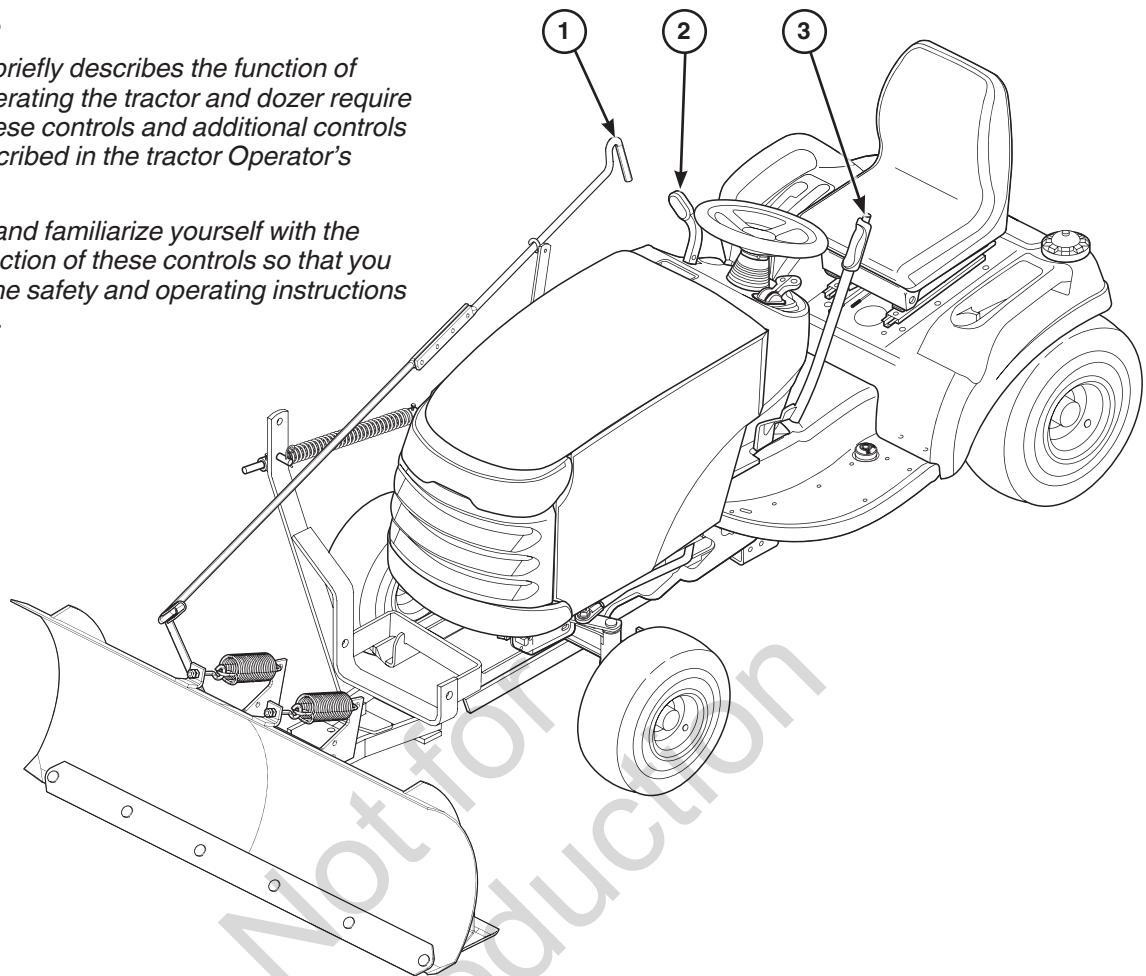


Figure 25

## Control Functions

The information below briefly describes the function of individual controls. Operating the tractor and dozer require the combined use of these controls and additional controls whose operation is described in the tractor Operator's Manual.

Please take a moment and familiarize yourself with the name, location, and function of these controls so that you will better understand the safety and operating instructions provided in this manual.



**Figure 26**

### 1. Blade Angle Control Lever

The blade angle release lever controls a spring-loaded plate which locks the blade in one of three positions.

Use an abrupt pushing/pulling motion 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 past center to lock in the centered position.

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

### 2. Hydraulic Attachment Lift Lever

The hydraulic attachment lift lever raises and lowers the dozer blade. To RAISE an attachment, pull the lever back. To LOWER an attachment, push the lever forward.

### 3. Manual Attachment Lift Lever

The manual attachment lift lever raises and lowers the dozer blade. To RAISE an attachment, depress the release button on top of the lever and pull back. To LOWER an attachment, depress the release button and move the lever all the way forward. Be sure to move the lever forward until it latches in the full forward position.

## Tractor Controls

Before you begin operating the tractor with the dozer blade attachment, make certain you have:

- Read and understood the instructions in the tractor Operator's Manual.
- Become thoroughly familiar with all of the tractor controls and their operation, including how to safely and properly start and stop the unit.
- Practice driving in an open area—without dozing—to become accustomed to the unit.

# **Operation**

## **Checks Before Starting**

1. Refer to the Maintenance & Adjustments sections of this manual and perform any needed service. Also, refer to the tractor Operator's Manual and perform any required service.
2. Remove any objects from the work area which might interfere with plowing activity.
3. Adjust the skid shoes to desired height. See Skid Shoe Adjustment.
4. Make sure all hardware is present and secure.

## **Engine & Ground Speed Selection**

Always run the engine at full throttle.

Set tractor speed to obtain the needed power to move 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 weight box is recommended for additional traction.

## **Transporting**

For maximum ground clearance, transport the blade to and from work areas fully raised and angled 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.

### **IMPORTANT NOTE**

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.

### **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 (106cm) vertically in 10 feet (607cm) 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.



### **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.

### Skid Shoe Adjustment

Slotted holes are provided to permit adjustment of the shoe assemblies for raising and lowering the blade to various working heights (see Figure 27).

When cleaning snow from gravel or earth drives or walks, the shoe assemblies should be lowered fully to prevent blade contact with gravel or ground. When cleaning smooth hard surfaces like concrete, the shoe assemblies are normally placed fully up to allow the blade to scrape the surface.

To adjust the skid, raise the blade off the ground and block with a piece of wood. Loosen the bolts and move the skid shoes up or down to desired height. Tighten the bolts securely.

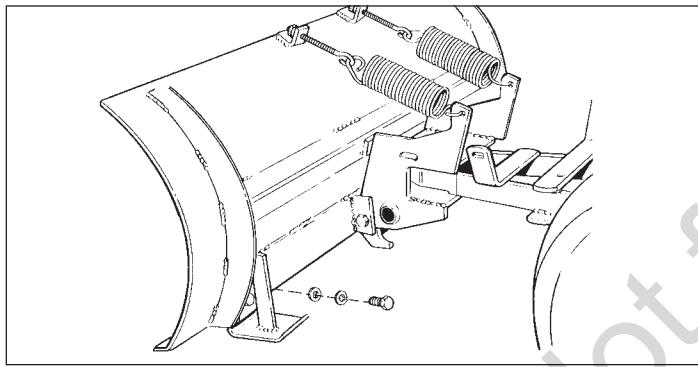


Figure 27

### Spring Tension

See Figure 28. This snow plow/dozer blade is spring loaded so that when the blade strikes a solid object, the springs will allow the blade to release as shown, rather than cause damage. The blade will go back to its original position after object is cleared.

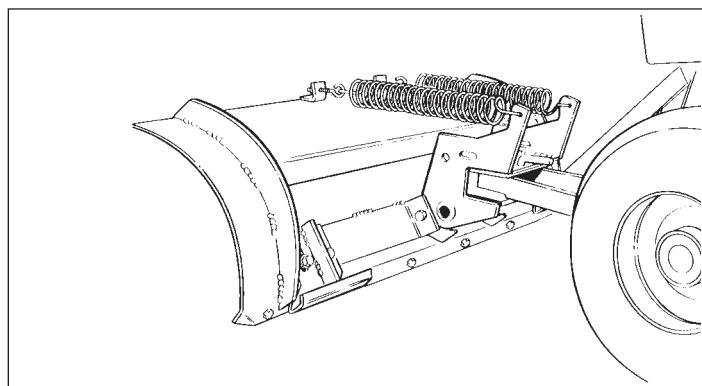


Figure 28

See Figure 29. To adjust spring tension hold rear nut and loosen front nut. Tighten rear nut to increase spring tension, or loosen to decrease tension.

For initial adjustment, tighten nut on each eyebolt enough to expose about  $3/4"$  (19mm) of thread. Tighten front nut against rear nut (B) to lock adjustment in place.

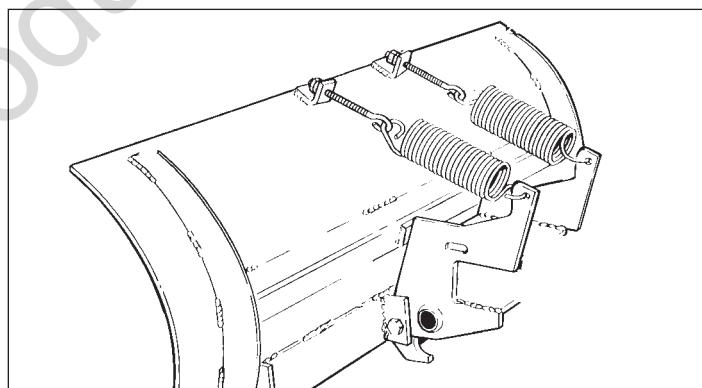


Figure 29

## Operation

### Lift Variations When Using Attachments

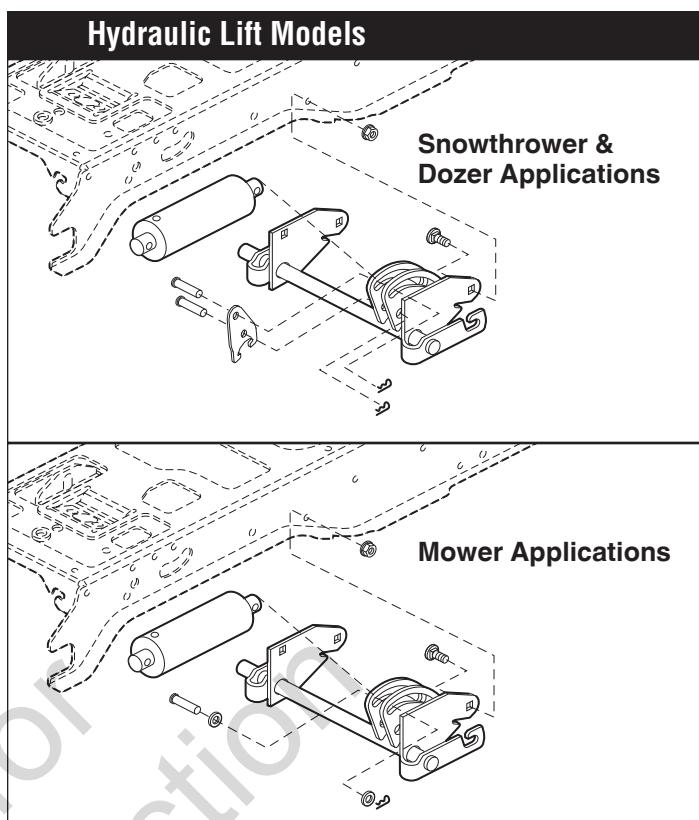
When a front-mounted attachment such as a snowblower or dozer blade is used with the tractor, the lift mechanism must be locked to provide downward force. When the mower is reinstalled the downward pressure lock must be released so that the mower can float.

#### Hydraulic Lift Models

When using a snowblower or dozer, the downward pressure lock plate (Figure 30) and an additional pin is installed. These parts are included with the attachment. Note that the washers are not used with the lock plate.

When mowing, the downward pressure lock plate is removed and replaced with two washers. The additional pin is also removed.

Fully lower the hydraulic lift. The lift assembly is spring loaded so it will need to be held in the down position to perform of the following procedures.



#### Manual Lift Models

**NOTE:** These instructions apply to Conquest / 1700 / 2700 Series tractors or Broadmoor / 1600 / 2600 Series tractors equipped with a lift lever kit.

The lift link is installed differently depending on what attachment is being used. Refer to or link installation information.

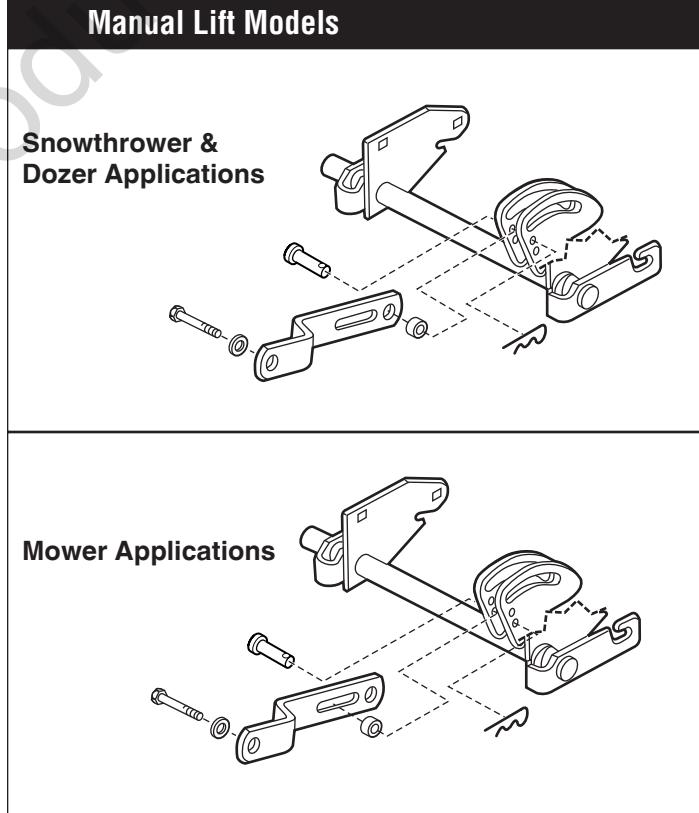


Figure 30

### Lift Rod Adjustment

**In the fully raised position the blade should be 4"-5" off the ground. In the fully lowered position, the lift rod should compress the spring creating downward pressure on the blade.**

### Lift Height Adjustment

1. Fully raise the attachment lift. The attachment should be approximately 4"-5" off the ground. If not, go to step 2.
2. Lower the attachment and adjust the front set collar (Figure 31) to achieve the correct lift height.

### Downward Pressure Adjustment

1. Place the lift in the fully raised position.
2. Slide the spring (Figure 31) forward so it is against the front set collar. Slide the rear set collar up against the back of the spring. Use the rear set collar to compress the spring slightly, then tighten the set screw.

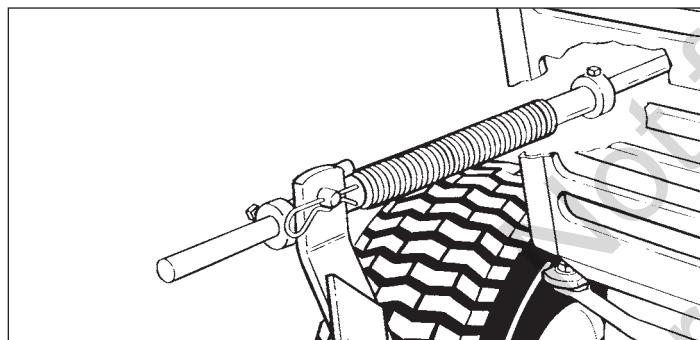


Figure 31

### IMPORTANT NOTE

Do not over-compress the spring.

In addition to providing downward pressure, the spring is an elastic medium that absorbs shocks caused by bumps and cracks in ground surfaces. Over-compressing the spring defeats this and may cause damage to the unit.

## Maintenance

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### Changing Angle of the Blade:

See Figure 26, Page 17 for location of Controls.

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

1. Raise the attachment lift.
2. Use an abrupt pushing/pulling motion 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.

### Dozing Tips

- Determine the best dozing pattern before beginning.
- When land contour permits, it is best to travel in the longest direction to minimize turning.
- In very deep snow or gravel, it may be necessary to make the first pass with dozer 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 dozer blade or reduce ground speed.
- When dozing, push the dirt to the desired location, then drag the blade backwards for final leveling. Pack down the dirt or gravel by driving the tractor over the leveled area.
- Use any slight grade to your advantage, doze downhill, and set the blade angle so that the plowed material is moving downhill as it leaves the blade.

### 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 long straight lines to minimize turning.
- In very deep or heavy snow, it may be necessary to make the first pass with dozer 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 dozer 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 next to the drive or sidewalk. 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.

**⚠️ WARNING**

To avoid serious injury, perform maintenance on the tractor or dozer blade only when the engine is stopped, parking brake is set and all moving parts have stopped. Always remove the ignition key before beginning maintenance or adjustments to prevent accidental starting of the engine.

### Schedule For Normal Care

Care Required	Schedule
Clean debris from dozer blade.	After each use.
Lubricate dozer blade.	Every 10 hours or at least once a year,

### Lubricate Dozer Blade

Lubricate the dozer blade as shown in Figure 32. Where an oil can is shown, wipe the area clean, apply a few drops of oil (SAE 30), then wipe up drips or spills.

In general, linkage connections and other parts that have partial rotational or sliding movement should be lubricated periodically with SAE 30 weight oil. Avoid applying excessive amounts of oil since this may cause a build-up of dirt around the lubricated area, making subsequent lubrication more difficult to accomplish.

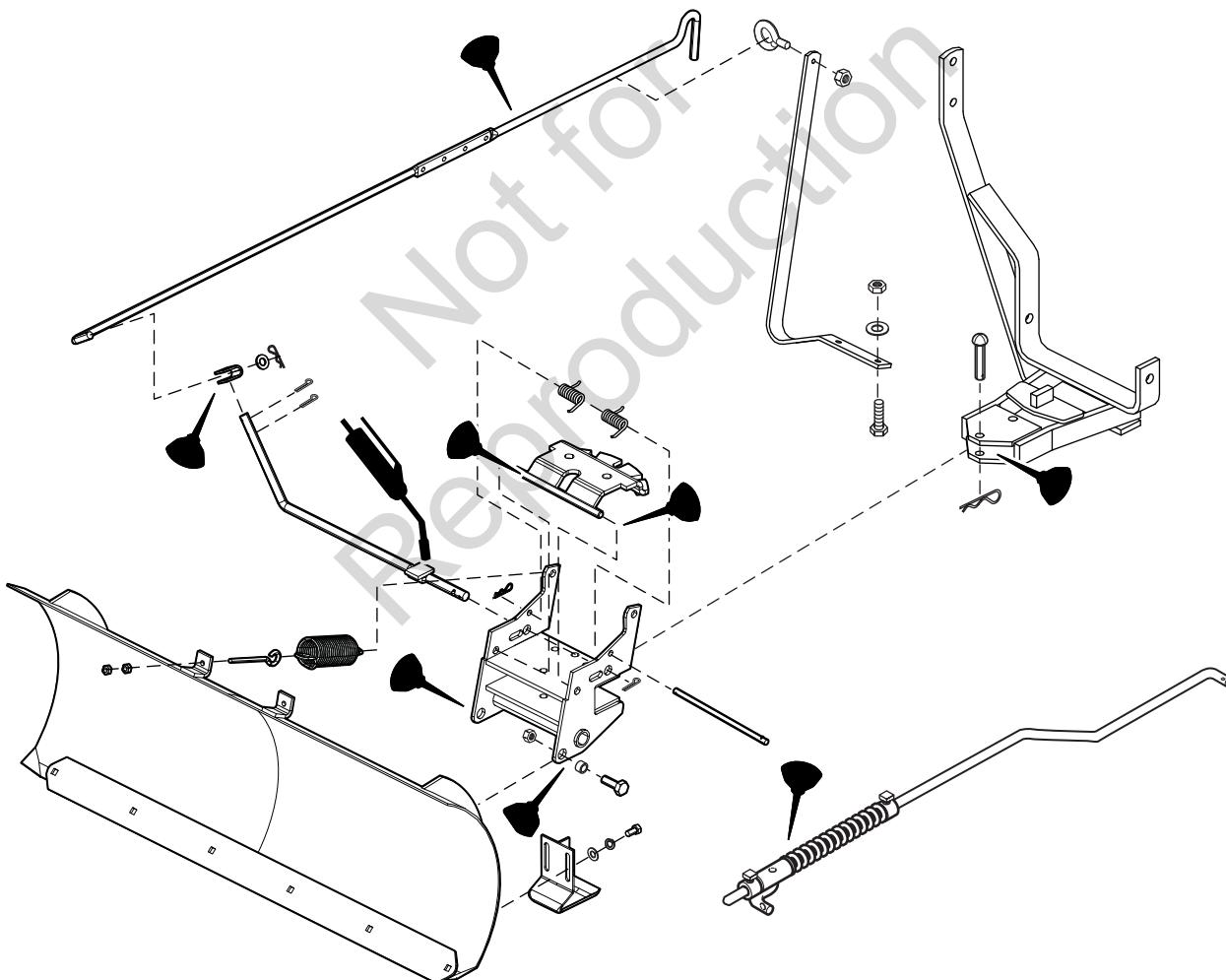


Figure 32

## Removal

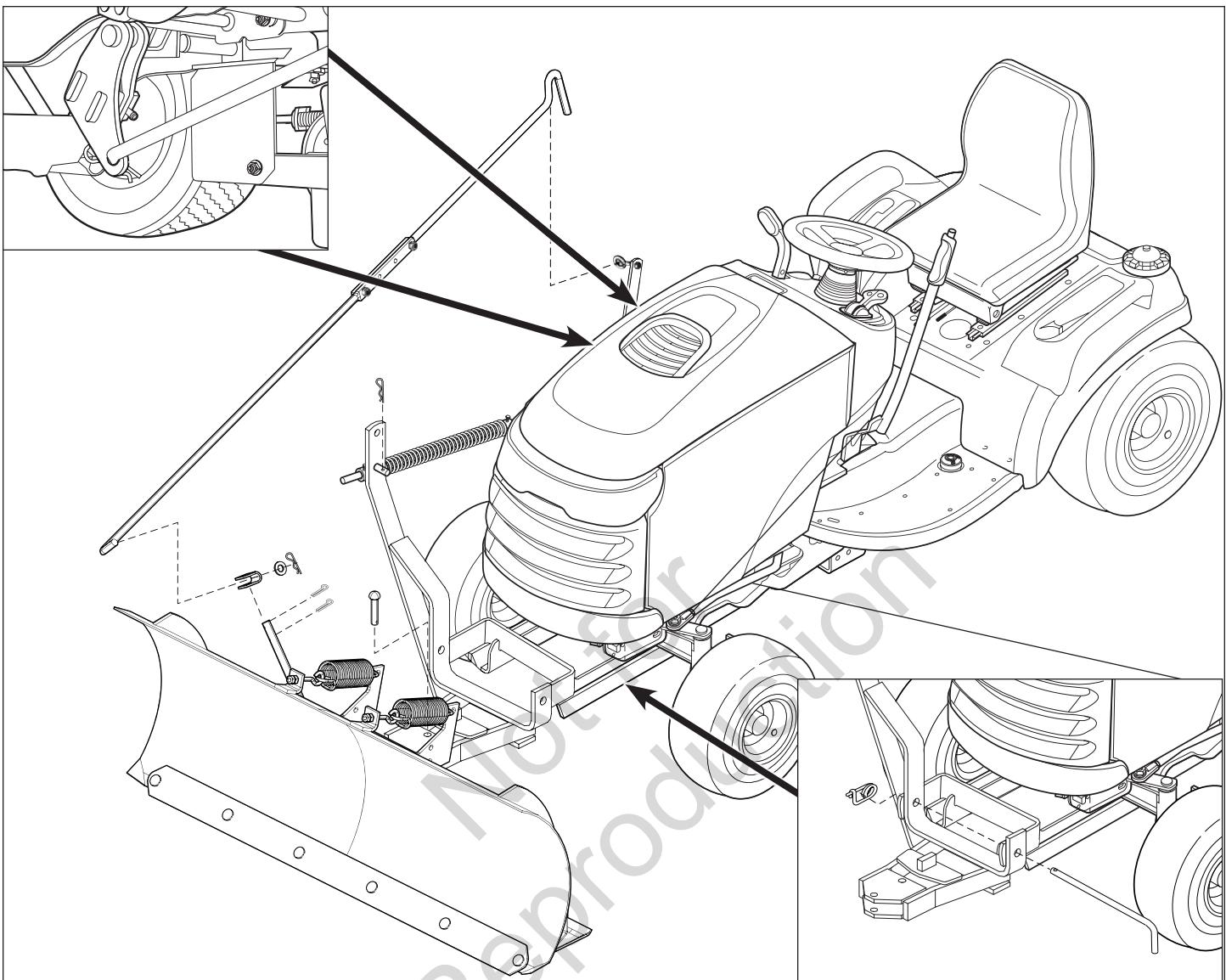


Figure 33

### Removing & Attaching Dozer Blade

1. Lower the blade. Position the lift so that it is not lifting the blade or applying downward pressure.
2. Remove the hair pin clip and washer (Figure 33) securing the angling control rod to the clevis. Disconnect the angling control rod.
3. Remove the angling control rod from the support arm.
4. Remove the pivot pin connecting the blade and pivot hitch. Remove the blade.
5. Lower the lift and remove the clip securing the lift rod to the push bar and lift rod.
6. Remove the hitch pin and safety clip (E) securing the pivot hitch (F) to the sub-frame hitch. Remove the pivot hitch.
7. Remove the sub-frame hitch (refer to sub-frame hitch instructions).
8. Reinstall all pins for storage.  
Install in reverse order of removal.

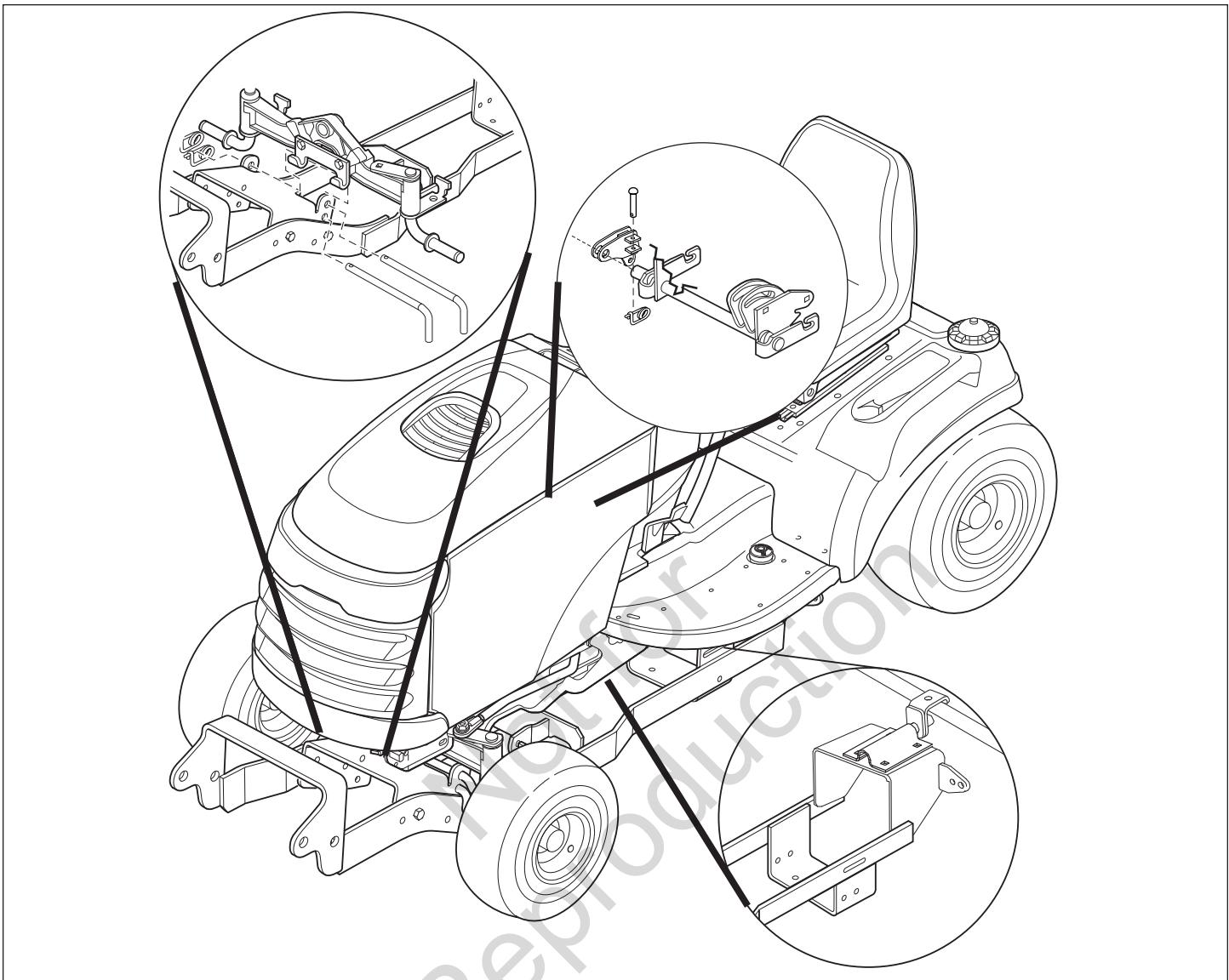


Figure 34

### Removing Sub-frame Hitch

**NOTE:** After removing components, reinstall the clevis pins and clips to prevent loss.

1. Disconnect the lift rod from the attachment and lift lever (Figure 34).
2. Remove the clevis pin and clip from the lift lever and remove the lift lever.

3. Remove the front hitch rods. Remove the hitch and hook.
4. Remove the lock plate or switch the lift link from dozer to mowing position.

## **Storage**

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### ***IMPORTANT NOTE***

Refer to Tractor Operator's Manual for important information concerning safely storing your tractor.

### **Daily Storage**

1. Allow tractor engine to cool before storing in any enclosure.
2. After dozing or plowing jobs are completed, hose or brush down the blade to remove excess dirt.
3. Lightly oil all pivot points. Coat bare metal surfaces to prevent corrosion.

### **Off-Season Storage**

1. Remove dozer blade and hitch from the tractor.
2. Use water pressure or a brush to thoroughly clean the dozer blade.
3. Paint, or lightly coat with oil, any area where paint has been worn or chipped away.
4. Lubricate the dozer blade.
5. Store the dozer blade and hitch in a dry place.

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**BRIGGS & 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.\*\*

**WARRANTY PERIOD**

Item	Consumer Use	Commercial Use:
Equipment	1 Years	N/A

\* Applies to Briggs & Stratton engines only. Warranty coverage of non-Briggs & Stratton engines is provided by that engine manufacturer. Emissions-related components are covered by the Emissions Warranty Statement.

\*\* 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, or by calling 1300 274 447, or by emailing or writing to 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, normal wear and tear, or stale or unapproved fuel.

**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.

**Stale Fuel** - In order to function correctly, this product requires fresh fuel that conforms to the criteria specified in the Operator's Manual. Damage caused by stale fuel (carburetor leaks, clogged fuel tubes, sticking valves, etc) is not covered by warranty.

**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. There is no warranty coverage on equipment used for primary power in place of utility power or on equipment used in life support applications. This warranty also excludes failures due to acts of God and other force majeure events beyond the manufacturer's control.

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