

# WOODS

**C360 Undermount Mower**

mounting to

**Cub Cadet Tractor Models  
7000, 7192, 7194,  
7195, 7200, 7205**

Includes

**Mounting Kit  
1002875**

**MAN0137**

**WOODS®**

## TO THE DEALER:

Assembly and proper installation of this product is the responsibility of the WOODS dealer. Read manual instructions and safety rules. Make sure all items on the Dealer's Pre-Delivery and Delivery Check Lists in the Operator's Manual are completed before releasing equipment to the owner.

The dealer must complete the Warranty Registration included in this manual. Both dealer and customer must sign the registration which certifies that all Dealer Check List items have been completed. The dealer is to return the prepaid postage portion to WOODS, give one copy to the customer, and retain one copy. **Note: Warranty credit is subject to this form being completed and returned.**

## TO THE OWNER:

Read this manual before operating your WOODS equipment. The information presented will prepare you to do a better and safer job. Keep this manual handy for ready reference. Require all operators to read this manual carefully and become acquainted with all the adjustment and operating procedures before attempting to operate. Replacement manuals can be obtained from your dealer or, in the United States and Canada, by calling 1-800-319-6637.

The equipment you have purchased has been carefully engineered and manufactured to provide dependable and satisfactory use. Like all mechanical products, it will require cleaning and upkeep. Lubricate the unit as specified. Observe all safety information in this manual and safety decals on the equipment.

For service, your authorized WOODS dealer has trained mechanics, genuine WOODS service parts, and the necessary tools and equipment to handle all your needs.

Use only genuine WOODS service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation. Record the model number and serial number of your equipment in the spaces provided:

**Model:** \_\_\_\_\_ **Date of Purchase:** \_\_\_\_\_

**Serial Number: (see Safety Decal section for location)** \_\_\_\_\_

Provide this information to your dealer to obtain correct repair parts.

Throughout this manual, the term **IMPORTANT** is used to indicate that failure to observe can cause damage to equipment. The terms **CAUTION**, **WARNING** and **DANGER** are used in conjunction with the Safety-Alert Symbol, (a triangle with an exclamation mark), to indicate the degree of hazard for items of personal safety.



This Safety-Alert Symbol indicates a hazard and means **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**



Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.



Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed.



Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.

**IMPORTANT**

Indicates that failure to observe can cause damage to equipment.

**NOTE**

Indicates helpful information.

**WOODS  
GANNON  
ALLOWAY  
GILL  
GANNONBMP  
WAIN ROY  
CF  
ALITEC**

**WOODS®**

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# SPECIFICATIONS

Cutting Width . . . . .	60"
Cutting Height Range . . . . .	1-1/2' - 4"
Tractor Mid-PTO Speed . . . . .	2,000 RPM
Blade Speed (RPM) . . . . .	2,800
Blade Tip Speed (feet per minute) . . . . .	15,200
Blade Spindles . . . . .	3
Number of Blades . . . . .	3
Universal Drive . . . . .	.0600
Caster Wheels . . . . .	4
Caster Size . . . . .	3-1/4" x 6-1/4"
Mower Frame Thickness . . . . .	8 GA Deck

## GENERAL INFORMATION

The purpose of this manual is to assist you in operating and maintaining your mower. Read it carefully. It furnishes information and instructions that will help you achieve years of dependable performance. These instructions have been compiled from extensive field experience and engineering data. Some information may be general in nature due to unknown and varying operating conditions. However, through experience and these instructions, you should be able to develop procedures suitable to your particular situation.

The illustrations and data used in this manual were current at the time of printing but, due to possible inline production changes, your machine may vary slightly in detail. We reserve the right to redesign and change the machines as may be necessary without notification.

### **WARNING**

- **Some illustrations in this manual show the mower with safety shields removed to provide a better view. The mower should never be operated with any safety shielding removed.**

Throughout this manual, references are made to right and left direction. These are determined from the operator's position in the tractor seat. Blade rotation is clockwise as viewed from the top of the mower.

# SAFETY RULES



**ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**



Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by an operator's single careless act.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, judgement, and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

It has been said "The best safety device is an informed, careful operator." We ask you to be that kind of operator.

## TRAINING

■ **Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals are available from dealer or, in the United States and Canada, call 1-800-319-6637.) Failure to follow instructions or safety rules can result in serious injury or death.**

■ **If you do not understand any part of this manual and need assistance, see your dealer.**

■ **Know your controls and how to stop engine and attachment quickly in an emergency.**

■ **Operators must be instructed in and be capable of the safe operation of the equipment, its attachments, and all controls. Do not allow anyone to operate this equipment without proper instructions.**

■ **Keep hands and body away from pressurized lines. Use paper or cardboard, not hands or other body parts to check for leaks. Wear safety goggles. Hydraulic fluid under pressure can easily penetrate skin and will cause serious injury or death.**

■ **Make sure that all operating and service personnel know that if hydraulic fluid penetrates skin, it must be surgically removed as soon as possible by a doctor familiar with this form of injury or gangrene, serious injury, or death will result. CONTACT A PHYSICIAN IMMEDIATELY IF FLUID ENTERS SKIN OR EYES. DO NOT DELAY.**

■ **Never allow children or untrained persons to operate equipment.**

## PREPARATION

■ **Check that all hardware is properly installed. Always tighten to torque chart specifications unless instructed otherwise in this manual.**

■ **Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head.**

■ **Make sure attachment is properly secured, adjusted, and in good operating condition.**

■ **Make sure spring-activated locking pin or collar slides freely and is seated firmly in tractor PTO spline groove.**

■ **Power unit must be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS systems in "locked up" position at all times.**

■ **Remove accumulated debris from this equipment, power unit, and engine to avoid fire hazard.**

■ **Make sure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.)**

■ **Make sure shields and guards are properly installed and in good condition. Replace if damaged.**

■ **A minimum 20% of tractor and equipment weight must be on the tractor front wheels when attachments are in transport position. Without this weight, tractor could tip over, causing personal injury or death. The weight may be attained with a loader, front wheel weights, ballast in tires or front tractor weights. Weigh the tractor and equipment. Do not estimate.**

■ **Inspect and clear area of stones, branches, or other hard objects that might be thrown, causing injury or damage.**

## OPERATION

■ **You may not be able to stop the tractor safely if the clutch or brake pedal mechanisms are improperly adjusted, allowing them to contact mower components.**

■ **When the mower lift stops are installed as instructed in this manual, properly adjusted clutch and brake pedal mechanisms will not contact mower components. You should frequently check that the tractor clutch and brake pedal mechanisms are in adjustment.**



# SAFETY RULES

**ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**



- If the clutch or brake pedal mechanisms can contact mower components, do not put mower into service until properly adjusted.
- Do not put mower into service unless discharge chute is installed and in good condition. Replace if damaged.
- Keep bystanders away from equipment.
- Never go underneath equipment (lowered to the ground or raised) unless it is properly blocked and secured. Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death. Follow Operator's Manual instructions for working underneath and blocking requirements or have work done by a qualified dealer.
- Never direct discharge toward people, animals, or property.
- Do not operate equipment while under the influence of alcohol or drugs.
- Operate only in daylight or good artificial light.
- Keep hands, feet, hair, and clothing away from equipment while engine is running. Stay clear of all moving parts.
- Always comply with all state and local lighting and marking requirements.
- Never allow riders on power unit or attachment.
- Power unit must be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS systems in "locked up" position at all times.
- Always sit in power unit seat when operating controls or starting engine. Securely fasten seat belt, place transmission in neutral, engage brake, and ensure all other controls are disengaged before starting power unit engine.
- Operate tractor PTO at the RPM speed stated in "Specifications" section.
- Do not operate PTO during transport.
- Do not operate auxiliary hydraulics during transport.
- Look down and to the rear and make sure area is clear before operating in reverse.

- Do not operate on steep slopes.
- Do not stop, start, or change directions suddenly on slopes.
- Use extreme care and reduce ground speed on slopes and rough terrain.
- Watch for hidden hazards on the terrain during operation.
- Stop power unit and equipment immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before resuming operation.
- Before dismounting power unit or performing any service or maintenance, follow these steps: disengage power to equipment, lower the 3-point hitch and all raised components to the ground, operate valve levers to release any hydraulic pressure, set parking brake, stop engine, remove key, and unfasten seat belt.
- Before working underneath, read Operator's Manual and Blocking Method section Disconnect driveline, raise mower, install transport lock, securely block up all corners, and check stability. Secure blocking prevents equipment from dropping due to hydraulic leak down, hydraulic system failures, or mechanical component failures.

## TRANSPORTATION

- Always comply with all state and local lighting and marking requirements.
- Never allow riders on power unit or attachment.
- Do not operate PTO during transport.
- Watch for hidden hazards on the terrain.
- A minimum 20% of tractor and equipment weight must be on the tractor front wheels when attachments are in transport position. Without this weight, tractor could tip over, causing personal injury or death. The weight may be attained with a loader, front wheel weights, ballast in tires or front tractor weights. Weigh the tractor and equipment. Do not estimate.
- Power unit must be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS system in "locked up" position at all times.
- Do not operate or transport on steep slopes.
- Do not operate or transport equipment while under the influence of alcohol or drugs.

# SAFETY RULES



**ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**



■ The maximum transport speed for towed and semi-mounted machines is 20 mph (32 km/h). Regardless of the maximum speed capability of the towing tractor, do not exceed the implement's maximum transport speed. Doing so could result in:

- Loss of control of the implement and tractor
- Reduced or no ability to stop during braking
- Implement tire failure
- Damage to the implement or its components.

■ Never tow this implement with a motor vehicle.

## MAINTENANCE

■ Before dismounting power unit or performing any service or maintenance, follow these steps: disengage power to equipment, lower the 3-point hitch and all raised components to the ground, operate valve levers to release any hydraulic pressure, set parking brake, stop engine, remove key, and unfasten seat belt.

■ Before working underneath, read Operator's Manual and Blocking Method section Disconnect driveline, raise mower, install transport lock, securely block up all corners, and check stability. Secure blocking prevents equipment from dropping due to hydraulic leak down, hydraulic system failures, or mechanical component failures.

■ Do not modify or alter or permit anyone else to modify or alter the equipment or any of its components in any way.

■ Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head.

■ Never go underneath equipment (lowered to the ground or raised) unless it is properly blocked and secured. Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death. Follow Operator's Manual instructions for working underneath and blocking requirements or have work done by a qualified dealer.

■ Make sure attachment is properly secured, adjusted, and in good operating condition.

■ Keep all persons away from operator control area while performing adjustments, service, or maintenance.

■ Make certain all movement of equipment components has stopped before approaching for service.

■ Frequently check blades. They should be sharp, free of nicks and cracks, and securely fastened.

■ Use a new Nylok blade bolt and cup washers when you replace the blade. Do not substitute any bolt for the special blade bolt. It is self-locking, meeting the non-loosening requirements for this application.

■ Do not handle blades with bare hands. Careless or improper handling may result in serious injury.

■ Your dealer can supply genuine replacement blades. Substitute blades may not meet original equipment specifications and may be dangerous.

■ Tighten all bolts, nuts and screws to torque chart specifications. Check that all cotter pins are installed securely to ensure equipment is in a safe condition before putting unit into service.

■ Make sure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.)

■ Make sure shields and guards are properly installed and in good condition. Replace if damaged.

■ Do not disconnect hydraulic lines until machine is securely blocked or placed in lowest position and system pressure is released by operating valve levers.

■ Wear gloves when installing belt. Be careful to prevent fingers from being caught between belt and pulley.

## STORAGE

■ Block equipment securely for storage.

■ Keep children and bystanders away from storage area.





# SAFETY & INSTRUCTIONAL DECALS



**ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**



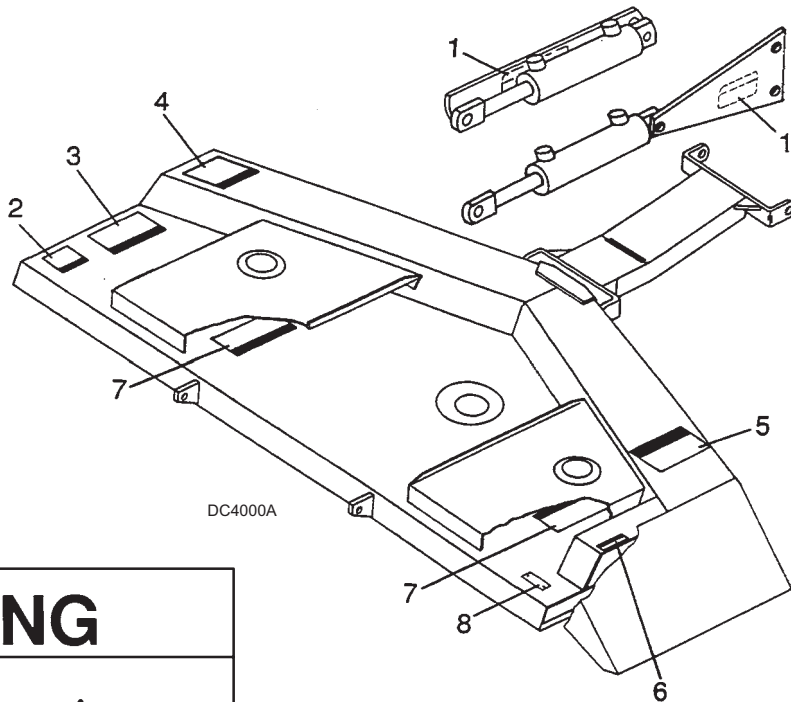
**Replace Immediately If Damaged!**



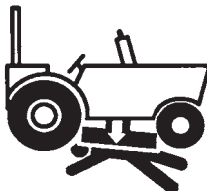
 <p>19924-B</p>	 <b>WARNING</b>
	<p><b>HIGH-PRESSURE HYDRAULIC OIL LEAKS CAN PENETRATE SKIN RESULTING IN SERIOUS INJURY, GANGRENE OR DEATH.</b></p> <ul style="list-style-type: none"> <li>■ Check for leaks with cardboard; never use hand.</li> <li>■ Before loosening fittings: lower load, release pressure, and be sure oil is cool.</li> <li>■ Consult physician immediately if skin penetration occurs.</li> </ul>

1 - PN 19924

 <b>WARNING</b>
<p>PTO speeds higher than 2000 RPM can cause equipment failure and personal injury.</p> <p style="text-align: center;"><b>OPERATE PTO AT 2000 RPM</b></p> <p style="text-align: right;">15622-A</p>

2 - PN 15622A



 <b>WARNING</b>	
	
<p><b>FALLING OFF OR FAILING TO BLOCK SECURELY CAN RESULT IN SERIOUS INJURY OR DEATH BY BEING RUN OVER OR CRUSHED.</b></p> <ul style="list-style-type: none"> <li>■ BUCKLE UP! TRACTOR SHOULD BE EQUIPPED WITH ROPS AND SEAT BELT.</li> <li>■ ALLOW NO RIDERS.</li> <li>■ SECURELY BLOCK UP AND REMOVE KEY BEFORE WORKING UNDERNEATH.</li> </ul> <p style="text-align: right;">19007</p>	

3 - PN 19007





# SAFETY & INSTRUCTIONAL DECALS

## ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

### Replace Immediately If Damaged!



**⚠ WARNING**

**TO AVOID SERIOUS INJURY OR DEATH,**

- Read Operator's Manual (available from dealer) and follow all safety precautions.
- Keep all shields in place and in good condition.
- Operate mower from tractor seat only.
- Lower mower, stop engine and remove key before dismounting tractor.
- Allow no children or untrained persons to operate equipment.

**FAILURE TO OPERATE SAFELY CAN RESULT IN INJURY OR DEATH.** 18877-B

4 -PN 18877B

**⚠ DANGER**






**ROTATING BLADES AND THROWN OBJECTS**

- Do not put hands or feet under or into mower when engine is running.
- Before mowing, clear area of objects that may be thrown by blade.
- Keep bystanders away.
- Keep discharge chute and guards in place and in good condition.

**BLADE CONTACT OR THROWN OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH.**

18863-B

5 -PN 18863

**⚠ DANGER**

**SHIELD MISSING**  
 DO NOT OPERATE - PUT SHIELD ON

18869

6 - PN 18869

**⚠ DANGER**

**SHIELD MISSING**  
 DO NOT OPERATE  
 PUT SHIELD ON

18867-B

7 - PN 18867

8 - Serial Number Plate

# OPERATION

Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by an operator's single careless act.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, judgement, and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

It has been said "The best safety device is an informed, careful operator." We ask you to be that kind of operator.

The operator is responsible for the safe operation of this mower. The operator must be properly trained. Operators should be familiar with the power unit, mower, and all safety practices before starting operation. Read the safety rules and safety decals on and page 7.

## WARNING

- Keep bystanders away from equipment.
- Never allow riders on power unit or attachment.
- Never allow children or untrained persons to operate equipment.
- Operate tractor PTO at the RPM speed stated in "Specifications" section.
- Keep all persons away from operator control area while performing adjustments, service, or maintenance.

## WARNING

- Make sure spring-activated locking pin or collar slides freely and is seated firmly in tractor PTO spline groove.
- Before working underneath, read Operator's Manual and Blocking Method section Disconnect driveline, raise mower, install transport lock, securely block up all corners, and check stability. Secure blocking prevents equipment from dropping due to hydraulic leak down, hydraulic system failures, or mechanical component failures.

## CAUTION

- Know your controls and how to stop engine and attachment quickly in an emergency.
- Operators must be instructed in and be capable of the safe operation of the equipment, its attachments, and all controls. Do not allow anyone to operate this equipment without proper instructions.
- Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head.
- Make sure attachment is properly secured, adjusted, and in good operating condition.

## Operation *Cont'd*

### Adjust Cutting Height

1. Mower cutting height is raised, lowered, and maintained by adjusting caster and gauge wheels. Refer to Figure 2 and accompanying chart for approximate cutting heights.
2. Raise mower with tractor hydraulics to adjust gauge and caster wheels. It is important that all settings are the same.

Approximate Cutting Height	Position
1.50"	1
2.12"	2
2.75"	3
3.38"	4
4.0"	5

Figure 1 Cutting Height Positions

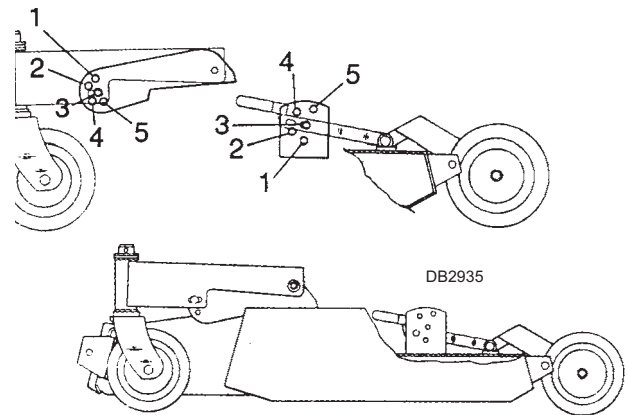


Figure 2 Cutting Height Adjustment

### IMPORTANT

- Avoid very low cutting heights. Striking the ground with blades gives one of the most damaging shock loads a mower can encounter and, if this occurs repeatedly, it will cause damage to mower and drive.

### Transport Lock Operation

There may be occasions when you would like to use your tractor for tasks other than mowing but do not want to remove the mower. For your convenience we have provided a method to lock the mower up and free the tractor auxiliary valve or 3-point arm for implement use.

1. To engage lock-up bar, raise mower to maximum height, then lift lock-up handle and drop into outer gate. This will lock mower in raised position.
2. To return to operating position, raise mower to maximum height, then raise lock-up handle and move to inner gate. Mower will now raise and lower freely.

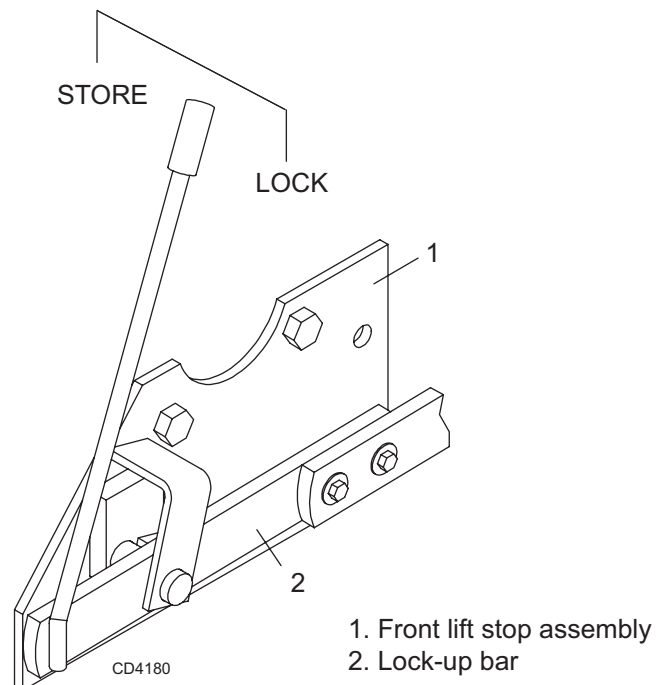


Figure 3 Transport Lock Installation

## Operation *Cont'd*

### Remove Mower from Tractor

**NOTE:** The lift mechanism maybe left on the tractor when mower is removed.

1. Lift mower off of ground and remove adjustment pins from gauge and caster wheel adjustment points.
2. Lower mower to ground, stop engine, and remove key.
3. Remove driveshaft from tractor mid-PTO shaft.
4. Release pins from front mounting channel. There are two pins connecting rockshaft lift to linkage attached to the mower frame.
5. Remove rear mower lift bars from rear rockshafts.
6. Remove the pins and leave the linkage attached to mower frame (flip lift bars down). Refer to Attach Mower to Tractor, page 40 for locations.
7. Raise mower lift mechanism. Refer to Transport Lock Operation, page 9 and lock the lift mechanism up.
8. Place blocks between front tires and mower frame.
9. Back tractor front tires over mower frame.
10. Place mower frame in storage.
11. Refer to Attach Mower to Tractor, page 40 for installing mower to tractor.

### Operation Safety

#### **DANGER**

- Do not put mower into service unless discharge chute is installed and in good condition. Replace if damaged.

Install Discharge Chute, page 36

#### **CAUTION**

- Stop power unit and equipment immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before resuming operation.

### IMPORTANT

- Power for operating mower is supplied by tractor mid-PTO. Do not exceed tractor manufacturer's rated mid-PTO speed of 2000 rpm maximum. Know how to stop tractor and mower quickly in case of an emergency.
- Should mower become plugged, causing belt to slip for over two seconds, maneuver equipment into a previously cut area and allow mower to clear accumulated material. Continue running at least two minutes, allowing pulleys to cool. Stopping the mower with belt in contact with a very hot pulley will bake and ruin belt.
- Mower vibration tends to loosen bolts during operation. All hardware should be checked regularly to maintain proper torque. It is a good practice to check mower before each operation to ensure all bolts are secure.

### Operating Techniques

1. Proper ground speed will depend upon the terrain, the height, type, and density of material to be cut.
2. Normally, ground speed will range from two to five mph. Tall dense material should be cut at a low speed; thin medium-height material can be cut at a faster ground speed.
3. Always operate tractor mid-PTO at 2000 rpm. This is necessary to maintain proper blade speed and produce a clean cut.
4. Under certain conditions, tractor tires may roll some grass down and prevent it from being cut at the same height as the surrounding area. When this occurs, reduce your ground speed, but maintain 2000 rpm mid-PTO speed. The lower ground speed will permit grass to at least partially rebound.
5. Under some conditions, grass will not rebound enough to be cut evenly. In general, lower cutting heights give a more even cut with less tendency to leave tire tracks. However, it is better to cut grass frequently rather than too short. Short grass deteriorates rapidly in hot weather and invites weed growth during growing seasons. Follow local recommendations for the suitable cutting height in your area.
6. When operating the mower, move the hydraulic control valve to the float position. This will allow the mower to follow ground contours.

### Operating Tips

1. Extremely tall material should be cut twice. Set mower at a higher cutting height for the first pass. Then cut at desired height at 90 degrees to the first pass.
2. Remember, sharp blades produce cleaner cuts and require less power.
3. Analyze area to be cut to determine the best procedure. Consider height and type of grass and terrain type: hilly, level, or rough.
4. Plan your mowing pattern to travel straight forward whenever possible. Mow with uncut grass to the left. This will distribute the clippings over the cut area. Discharging clippings over uncut grass will cause a build-up and may prevent uniform cutting.
5. Use the inside edge of the right front caster wheel as a cutting guide.
6. When transporting unit a long distance, pin all four wheels in position 1 as shown in Figure 1, Cutting Height Positions, page 9. Raise mower and engage lock-up.
7. For a professional touch in large open areas, try the mowing pattern in Figure 4. Make two or three passes clockwise to discharge clippings away from bordering objects. Then cut the lawn in half by mowing down the center. Turn counter-clockwise to the left at the end of the area over grass previously mowed.

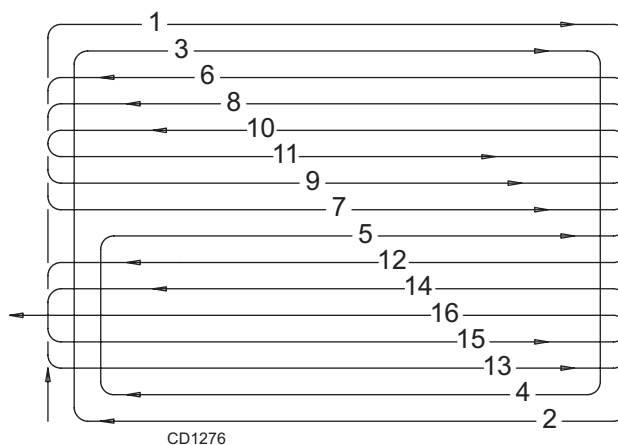


Figure 4 Mowing Pattern

### Uneven Terrain



- Do not operate on steep slopes.
- Do not stop, start, or change directions suddenly on slopes.
- Use extreme care and reduce ground speed on slopes and rough terrain.
- Watch for hidden hazards on the terrain during operation.

1. Pass diagonally through sharp dips and avoid sharp drops to prevent "hanging up" the tractor and mower. Practice will improve your skills in maneuvering rough terrain.

2. Take all possible precautions when leaving tractor unattended: disengage mid-PTO, set parking brake, stop engine, remove key, and lower mower to ground.

### PRE-OPERATION CHECK LIST

#### (OWNER'S RESPONSIBILITY)

- \_\_\_ Review and follow all safety rules and safety decal instructions on pages 3 through 7.
- \_\_\_ Check that all safety decals are installed and in good condition. Replace if damaged.
- \_\_\_ Check to make sure all shields and guards are properly installed and in good condition. Be sure that either the discharge shield or complete vacuum attachment is installed.
- \_\_\_ Check that all hardware and cotter pins are properly installed and secured.
- \_\_\_ Check that equipment is properly and securely attached to power unit.
- \_\_\_ Make sure driveline spring-activated locking pin or collar slides freely and is seated firmly in power unit PTO spline groove and in gearbox spline groove.
- \_\_\_ Inspect area and remove stones, branches or other hard objects that might be thrown, causing injury or damage.
- \_\_\_ Check to ensure blades are sharp, in good condition, and installed correctly. Replace if damaged.
- \_\_\_ Check all lubrication points and grease as instructed in Lubrication Points, page 15.
- \_\_\_ Check cutting height and attitude adjustment.
- \_\_\_ Make sure tractor 3-point lift links do not interfere with hydraulic hoses or driveline throughout full turning range.
- \_\_\_ Do not allow riders.

# OWNER SERVICE

The information in this section is written for operators who possess basic mechanical skills. If you need help, your dealer has trained service technicians available. For your protection, read and follow the safety information in this manual.

## WARNING

- Before working underneath, read Operator's Manual and Blocking Method section. Disconnect driveline, raise mower, install transport lock, securely block up all corners, and check stability. Secure blocking prevents equipment from dropping due to hydraulic leak down, hydraulic system failures, or mechanical component failures.
- Keep all persons away from operator control area while performing adjustments, service, or maintenance.

## CAUTION

- Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head.

## Blocking Method

### WARNING

■ Before working underneath, read Operator's Manual and Blocking Method section Disconnect driveline, raise mower, install transport lock, securely block up all corners, and check stability. Secure blocking prevents equipment from dropping due to hydraulic leak down, hydraulic system failures, or mechanical component failures.

1. Do not work underneath mower unless it is properly attached to the tractor and blocked securely. When properly attached, the unit will be anchored to minimize front-to-rear movement.
2. Raise mower completely, set tractor brakes, turn engine off, remove key, block tractor wheels front and rear.
3. Install transport lock (see Transport Lock Operation, page 9).
4. Disconnect mower driveline from tractor PTO.
5. Install blocks securely under each corner of the mower, Figure 5.

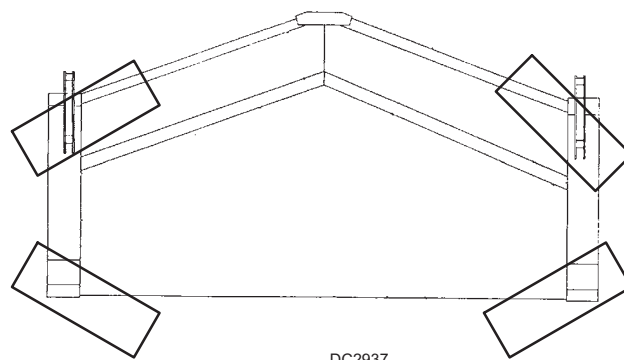


Figure 5 Block Location

**NOTE:** When blocking, you must consider overall stability of the unit. Just blocking under the unit will not ensure your safety. The working surface must be level and solid to support the loaded weight of the blocks. Test blocking stability before working under any portion of the mower.

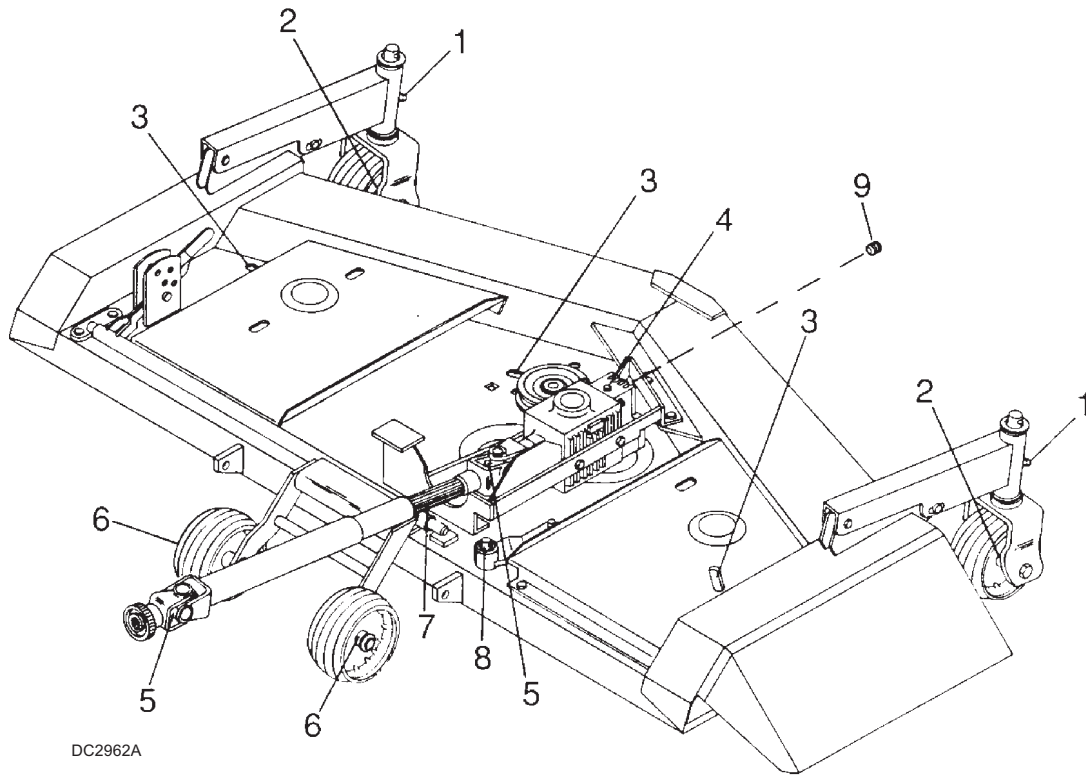


### Lubrication

1. Do not let excess grease collect on or around parts, particularly when operating in sandy areas.
2. Figure 6 shows the lubrication points. The accompanying chart gives the frequency of lubrication in operating hours, based on normal operating conditions. Severe or unusual conditions may require more frequent lubrication. Some reference numbers have more than one location; be sure you lubricate all locations.
3. Use SAE 90W gear lube in the gearbox. Check gearbox daily for evidence of leakage at both seals and the gasket between the housing and cover. If leakage is noted, repair immediately. There may be a small amount of lube emitted from the vent plug; this is not considered leakage.
4. Check lube level every 50 hours by removing the vent plug and inserting an object such as a wooden pencil through the hole until it touches the bottom of the gearbox. The oil level should show 1" on the pencil. You may also check the oil by using an Allen wrench to remove the level plug in the front of the gearbox.
5. Over-filling the gearbox will cause the excess gear lube to blow out vent plug. The gear lube could then ruin the belt.
6. Use a lithium grease of #2 consistency with a MOLY (molybdenum disulfide) additive for all locations. Be sure to clean fittings thoroughly before attaching grease gun. When applied according to the lubrication chart, one good pump of most guns is sufficient.
7. In addition to the lubrication points shown (Figure 6), oil the six mower lift pivot points (See Oilite Bushing Location, page 21), at least once a year.

### Drive Shaft Lubrication

1. Lubricate the drive shaft slip joint every 8 operating hours. Failure to maintain proper lubrication could result in damage to U-joints, gearbox and drive shaft.
2. Lower mower to ground and apply a bead of grease all around the male half where it meets the female half. Raise and lower mower several times to distribute grease.



DC2962A

REF	DESCRIPTION	FREQUENCY
1	Caster pivot	8 hrs.
2	Chaster wheel	8 hrs.
3	Blade Spindle	24 hrs.
4	Gearbox- Check level (check for leaks daily)	50 hrs.
5	Drive shaft U-Joints	8 hrs.
6	Rear gauge wheels	8 hrs.
7	Drive shaft slip joint	8 hrs.
8	Spring Take-Up pivot arm (30W Oil)	24 hrs.
9	Oil level plug	

**Figure 6** Lubrication Points

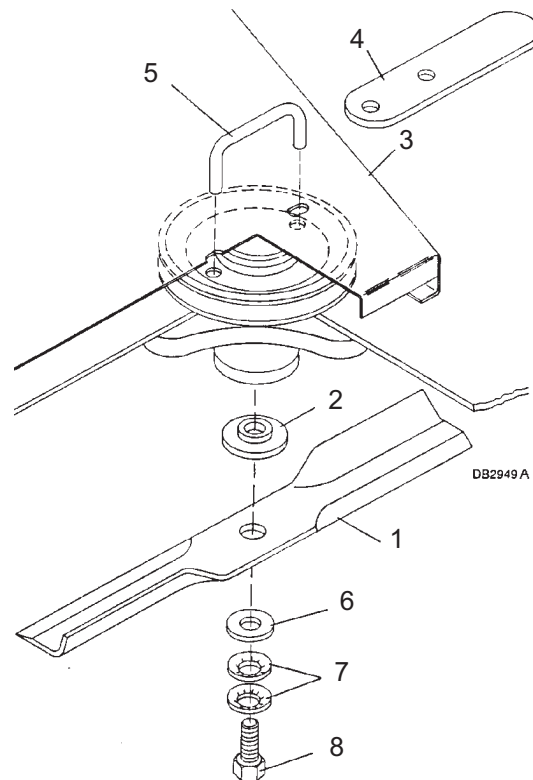
## BLADE SERVICING

Inspect blades for condition and proper installation each time before operation. Replace any blade that is bent, excessively nicked, worn or has any other damage. Small nicks can be ground out when sharpening.

### Remove Blades

1. For right and left spindles, install spindle lock wrench (5) through belt shield (3) and into holes in spindle pulley as shown in Figure 7. Remove bolt (8) that has **RIGHT HAND THREADS**. Remove cup washers (7), washer (6), and blade (1).
2. On the center spindle use blade wrench handle (4). The handle will rotate against gearbox stand when blade bolt is removed.
3. Shoulder washer (2) will not normally come off unless intentionally removed.

1. Blade
2. Shoulder washer
3. Left blade shield
4. Spindle lock wrench handle
5. Spindle lock wrench
6. 5/8 Standard flat washer
7. Cup washer
8. Blade bolt, special Nylok (right hand thread)



**Figure 7** Blade Assembly

## Install Blades



■ Your dealer can supply genuine replacement blades. Substitute blades may not meet original equipment specifications and may be dangerous.

### IMPORTANT

- We recommend you install a new Nylok blade bolt when you replace the blade.
- Do not substitute any bolt for the special blade bolt. It is self-locking, meeting the non-loosening requirements for this application.

Refer to Figure 7.

1. Install spindle lock wrench (5) through belt shield (3) and into holes in spindle pulley as shown Figure 7.
2. Install shoulder washer (2) if removed, small end up. Make sure blade cutting edge is positioned to lead in a clockwise rotation, as viewed from top of mower.
3. Install two cup washers (7) on bolt (8). Install washer (6) and blade (1) on bolt. Remember that bolt (8) has right hand threads; install bolt and blade assembly into spindle.
4. Torque bolt to 170 lbs.-ft. Remove spindle lock wrench from pulley and shield.

## Sharpen Blades

### IMPORTANT

■ When sharpening blades be sure to balance them. Unbalanced blades will cause excessive vibration which can damage blade spindle bearings. Vibration may also cause structural cracks in mower components.

1. Remove blades.
2. Always sharpen both ends at the same time to maintain balance. Follow original sharpening pattern. Do not sharpen blade to a razor edge. Leave from 1/32" to 1/16" blunt edge. Do not sharpen back side.

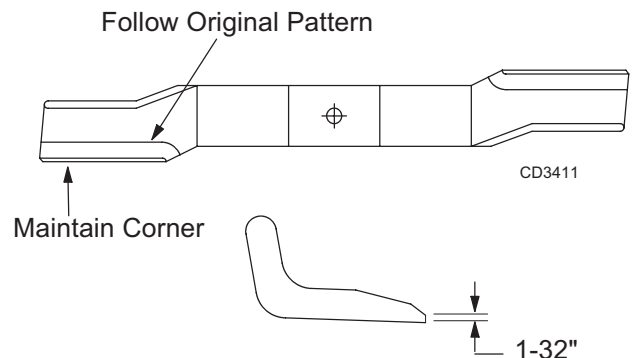


Figure 8 Blade Sharpening

Replace Belt



■ Use care when installing or removing belt from spring-loaded idler at step 5. Springs store energy when extended and, if released suddenly, can cause personal injury.

One of the major causes of belt failure is improper installation. Before installing a new belt, check pulley shafts and bearings for wear. Check pulley grooves for dirt. Make sure spindles turn freely and without wobble.

If grooves require cleaning, moisten a cloth with a non-flammable, non-toxic degreasing agent or commercial detergent and water.

Avoid excessive force during installation. Do not use tools to pry belt into pulley groove. Do not roll belt over pulleys to install. This can cause hidden damage and premature belt failure.

1. Loosen bolt holding belt guide A and swing it away from pulley B.
2. Pass a loop of belt underneath front of gearbox stand ahead of gearbox pulley C. Use care not to over-bend belt as bending can cause internal damage.
3. Route belt over pulley D.
4. Route belt around gearbox pulley C and route a loop underneath rear of gearbox stand.
5. Use a 1-1/4" open end wrench to rotate idler arm E counter-clockwise enough to install belt around idler pulley F.
6. Route belt around spindle pulley "G" and idler pulley H.
7. Grasp remaining belt loop with both hands and pull the spring-loaded idler enough to route belt over spindle pulley B. Make sure spring-loaded idler E pivots freely with belt installed.
8. Adjust belt guide A to provide 1/16 to 1/8" clearance from belt. Torque bolt to 85 lbs.-ft.

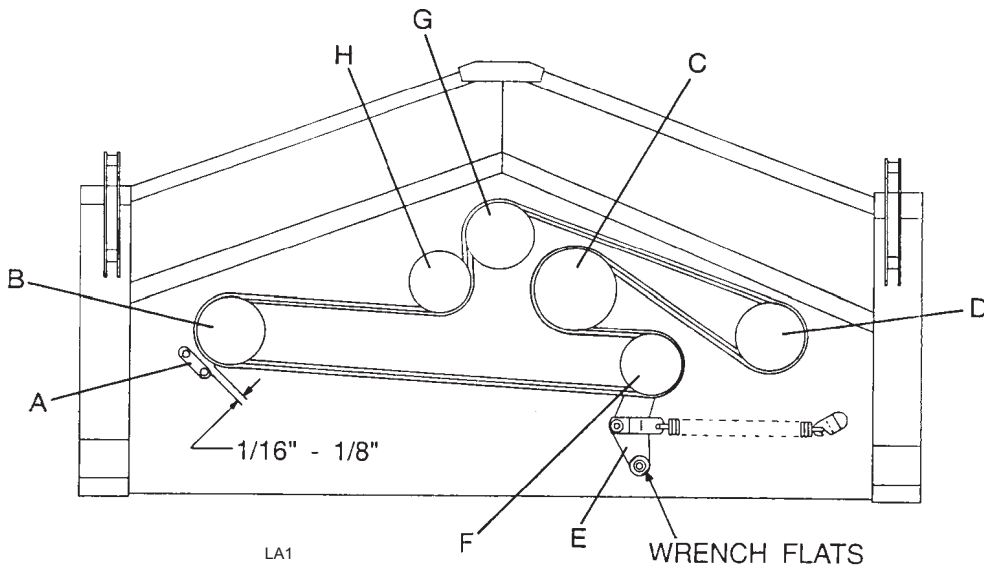


Figure 9 Replace Belt

# DEALER SERVICE

The information in this section is written for dealer service personnel. The repair described here requires special skills and tools. If your shop is not properly equipped or your mechanics are not properly trained in this type of repair, you may be time and money ahead to replace complete assemblies

## CAUTION

■ Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head.

## BLADE SPINDLE

### Remove Blade Spindle

1. Remove blade from spindle. (See Remove Blades, page 16.)
2. Remove belt shield.
3. Remove belt from pulleys.
4. Remove bolt and flat washer from top of spindle shaft.

### Spindle Repair Tips

- As a reference point, the top of the spindle housing is the short portion.
- To minimize wear, bearing cups, cones and sleeves are press-fit to the shaft and will require a press or similar device for removal.
- When disassembling, support the housing casting to prevent damage.

### Disassemble Blade Spindle

Refer to Figure 10, page 20

1. Support spindle in a press and push shaft (8) down through housing (5).
2. Remove seals from housing.

## WARNING

- Before working underneath, read Operator's Manual and Blocking Method section Disconnect driveline, raise mower, install transport lock, securely block up all corners, and check stability. Secure blocking prevents equipment from dropping due to hydraulic leak down, hydraulic system failures, or mechanical component failures.
- Keep all persons away from operator control area while performing adjustments, service, or maintenance.

5. Disassemble split taper bushing (located on top of pulley) by removing the two bolts and inserting them into the threaded holes in bushing flange. Tighten bolts alternately to remove split taper bushing. Remove pulley.
6. Remove four bolts attaching spindle to mower frame and remove spindle.

- Remove bearing cups by placing a punch in the housing slots and driving cup out. Alternate punch positions from side to side. Use care to prevent housing damage.
- Permatex<sup>®a</sup> sealant is used on the outer diameter of the seals. Substitute seals may not meet original equipment specifications and could cause leakage.

3. Remove bearing cups from housing as described in Spindle Repair Tips section.
4. Remove bearing cone (4) from shaft (8).

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**Assemble Blade Spindle**

**IMPORTANT**

■ **Bearing adjustment is set by pressing sleeve against bearing cone until proper adjustment is attained.**

■ **Improper positioning of seals can cause seal failure.**

1. Bearing cups and cones are designed to work together. It is important to position them so the bearing cone taper mates with bearing cup taper.

2. Lubricate new cups (6) with a light oil. Place them in spindle housing (5) so they will mate with cones (4). Seat cups (6) against machined shoulder of housing with a press or by placing a large drift on the flat lip and driving them into housing.

3. Place bottom bearing cone (4) onto spindle shaft (8) with taper up. Seat on bottom shoulder of shaft with a press.

4. Insert shaft and bearing cone assembly through bottom of housing (5). Fill housing cavity with a lithium grease of #2 consistency with a MOLY (molybdenum disulfide) additive.

5. Place top bearing cone (4) on shaft (8) to mate with top bearing cup. Install sleeve (3) on shaft and press sleeve and bearing cone onto shaft until all bearing free play is removed and there is a slight drag. Check by spinning spindle. It should turn freely.

**NOTE:** Be careful not to over-tighten bearings. Proper bearing adjustment is essential to good bearing life. Should you over-tighten bearings, hold spindle housing and rap spindle shaft with a hammer and wood block to loosen bearings. Readjust bearings until proper setting is obtained.

6. Proper seal installation is important. An improperly installed seal will leak and could cause bearing failure.

7. Pull the rubber portion of seal back and locate spring.

8. Apply a thin coat of lubricant to bottom seal (2) and install with spring up toward center of housing.

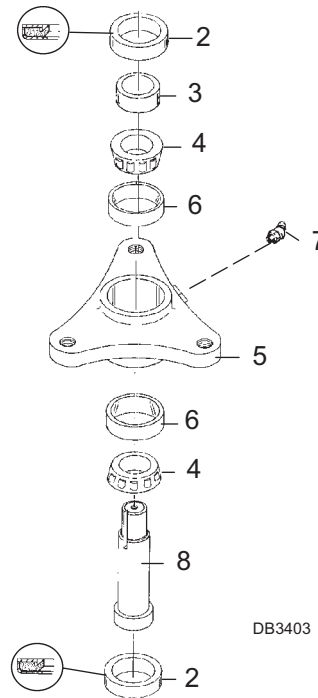
9. Place bottom seal squarely onto housing. Select a piece of pipe or tubing with an OD that will sit onto outside edge of seal. A tube that is too small will bow seal cage.

10. To prevent distortion to metal seal cage, carefully press seal into housing. Seal should seat firmly and squarely against machined shoulder in housing.

11. Make sure seal lip did not roll under. Distortion to seal cage or damage to seal lip will cause seal to leak. Damaged seals must be replaced.

12. Apply a thin coat of lubricant to top seal (2) and install with spring facing up away from center of housing. Top seal should be flush with top of housing.

13. Lubricate spindle with a lithium grease of #2 consistency with a MOLY (molybdenum disulfide) additive. Vent bottom seal with a blunt edged tool such as a letter opener while filling with grease. Rotate housing on spindle shaft, checking for free movement.



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**Figure 10 Spindle Repair**

- 1. Spindle Assembly
- 2. Seal
- 3. Sleeve
- 4. Bearing cone
- 5. Housing
- 6. Cup
- 7. Grease fitting
- 8. Shaft



### Install Blade Spindle

#### IMPORTANT

■ Pulley installation sequence is very important for bearing life. Follow the sequence exactly.

1. Insert spindle through bottom of mower deck and install three mounting bolts. Be sure to position grease fittings toward lubrication access areas.
2. Install pulley (16) and split taper bushing (17) with integral key on spindle shaft.
3. Install bolt (44) and flat washer (45) in top of spindle shaft. Torque this bolt to 12 lbs.-ft.
4. Install split taper bushing bolts (47) and lock washers (42).
5. Alternately tighten and torque to 12 lbs.-ft.

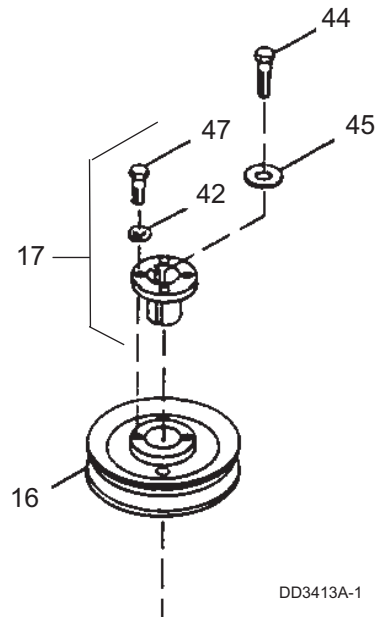


Figure 11 Spindle Installation

### Replace Oilite Bushings

1. Six pre-oiled bronze Oilite bushings are used in the lift mechanism, two in front and four in rear (see Figure 12). Oil these bushings once a year to extend their life cycle.
2. When replacement is required, use a new bushing to press the old bushing out. Make sure the new bushings are pressed in flush.

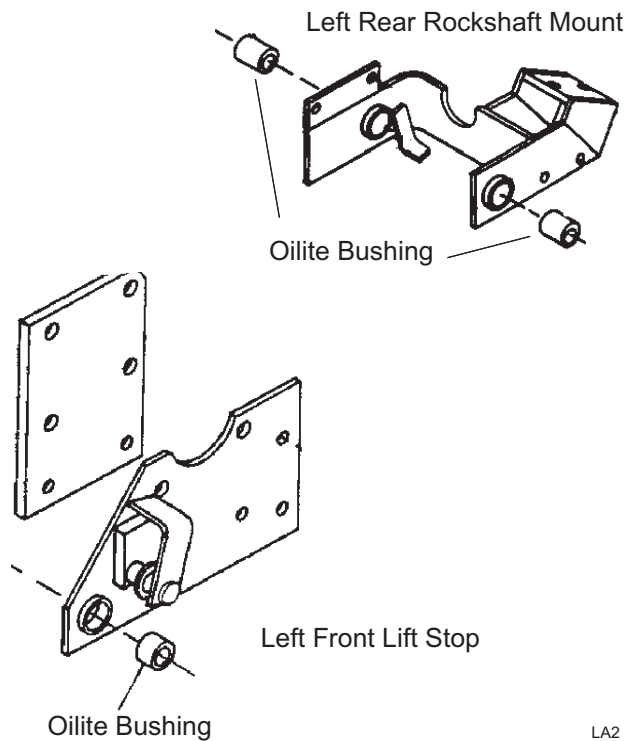
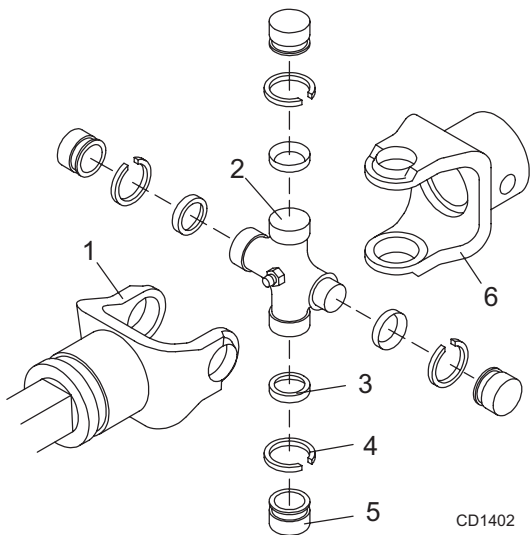


Figure 12 Oilite Bushing Location

### UNIVERSAL JOINT REPAIR



1. Drive shaft yoke
2. Journal cross
3. Seal
4. Snap ring
5. Cup and bearings
6. Yoke

Figure 13 U-Joint Exploded View

### Disassemble U-Joint

1. Remove snap rings from inside of yokes in four locations as shown in Figure 14.

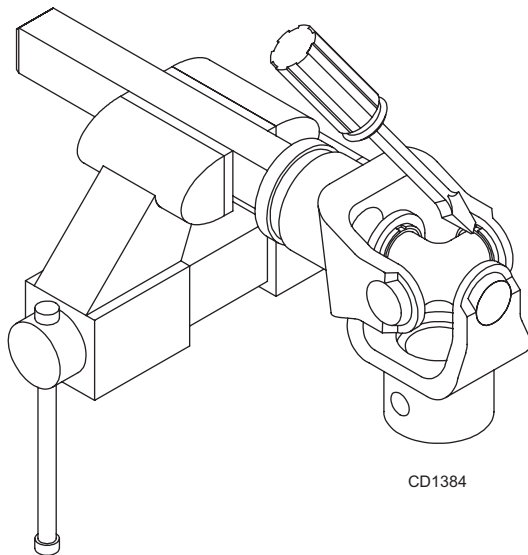


Figure 14

2. With snap rings removed, support drive in vise, hold yoke in hand and tap on yoke to drive cup up out of yoke. See Figure 15.

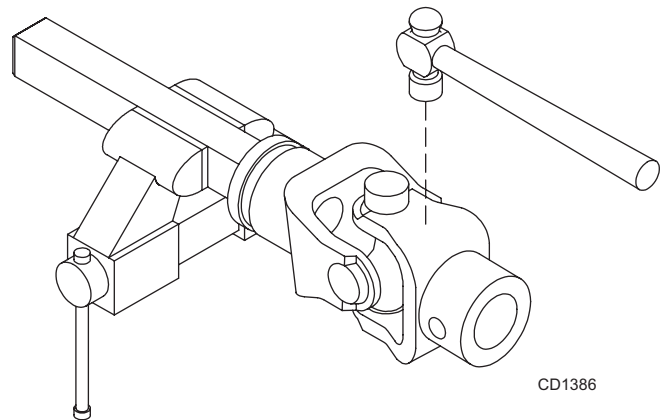


Figure 15

## DEALER SERVICE Cont'd

### Disassemble U-Joint cont'd

3. Clamp cup in vise as shown in Figure 16 and tap on yoke to completely remove cup from yoke. Repeat steps two and three for opposite cup.

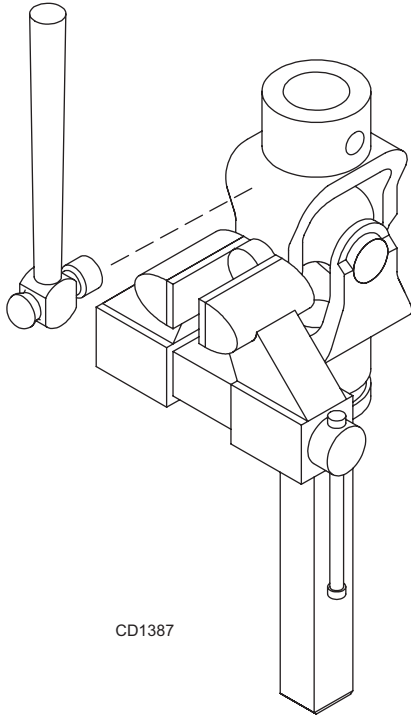


Figure 16

4. Place universal cross in vise as shown in Figure 17 and tap on yoke to remove cup. Repeat step three for final removal. Drive remaining cup out with a drift and hammer.

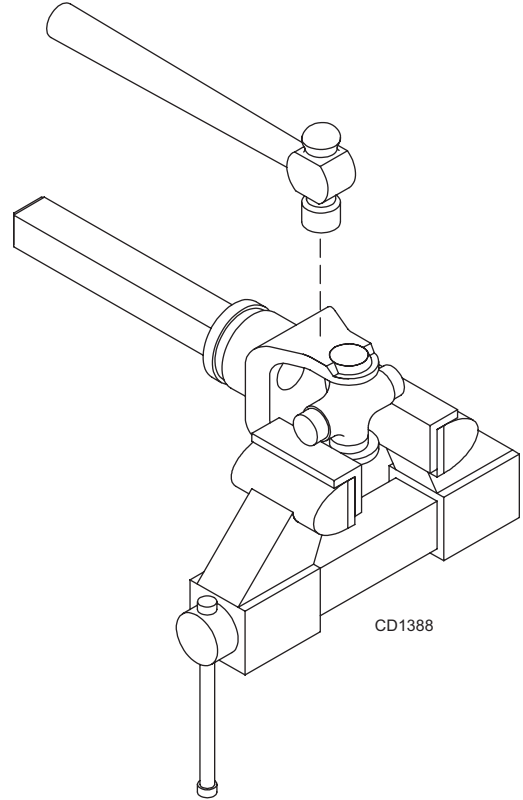


Figure 17

### Assemble U-Joint

1. Place seals securely on bearing cups. Insert cup into yoke from outside and press in with hand pressure as far as possible.
2. Insert journal cross into bearing cup with grease fitting away from the shaft. Be careful not to disturb needle bearings.
3. Insert another bearing cup directly across from first cup and press in as far as possible with hand pressure.
4. Trap cups in vise and apply pressure. Be sure journal cross is started into bearings and continue pressure with vise, squeezing in as far as possible. Tap yoke to aid in process.
5. Seat cups by placing a drift or socket (slightly smaller than the cup) on cup and rapping with a hammer. See Figure 18.
6. Install snap ring and repeat on opposite cup.
7. Repeat steps 1 and 2 to install remaining cups in remaining yoke.
8. Move both yokes in all directions to check for free movement. Should movement be restricted, rap on yokes sharply with a hammer to relieve any tension. Repeat until both yokes move in all directions without restriction.

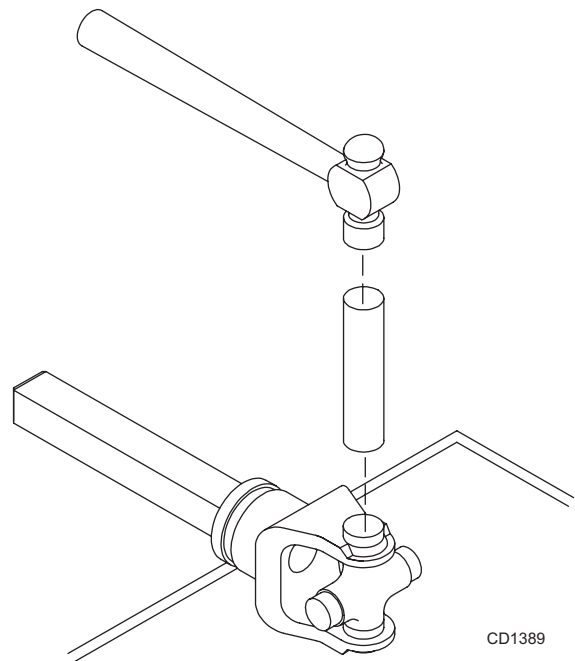


Figure 18

### GEARBOX MAINTENANCE

Read this complete section before starting any repair. Many steps are dependent on each other.

Gearbox bearings, gears, and shafts have an interference press fit. Gearbox repair is limited to seal, gasket, and vent plug replacement.

Always maintain correct gear lube level in gearbox. Be sure proper vent plug is installed.

Troubleshooting is an important part of gearbox maintenance. Check for leakage and bad bearings.

Leakage is a very serious problem and must be corrected immediately or damage to gearbox and belt will result. Remove gearbox from mower to repair leakage problems.

Leakage may be caused by a vent plug not venting. To check vent plug operation, remove plug and apply low air pressure to opening in side of plug. Check to make sure it is venting out of the top.

Operating gearbox with improper lube level may also cause seals to leak. Also check for housing cracks. If any of these conditions exist, correct them, clean area where leakage was evident, return mower to service, and check to make sure leakage has been stopped.

Bearing maladjustment or failure is indicated by noise and excessive side and end play in gear shafts. If this is indicated, replace the gearbox.

## DEALER SERVICE Cont'd

### Remove Gearbox

1. Disconnect drive shaft and remove key from keyway.
2. Remove belt and remove gear stand from mower.
3. Turn gear stand over. There are two set screws in the split taper bushing; remove them. Insert one set screw into the threaded bushing hole and tighten to force bushing and pulley apart.
4. Remove gearbox from stand.

### Repair Gearbox Leak

Permatex<sup>®a</sup> sealant is used on the outer diameter of the seals. Substitute seals may not meet original equipment specifications and could cause leakage.

1. Clean gearbox exterior to remove all foreign material. When opening, use care to prevent foreign material from entering gearbox.
2. To repair horizontal seal, vertical shaft, or leakage between cover and gearbox, remove vent plug and drain gear lube from box.
3. Remove leaking seal and replace (refer to Install Seal, page 25). Use care to prevent rolling the seal lip under.
4. Replace gasket between cover and gearbox.

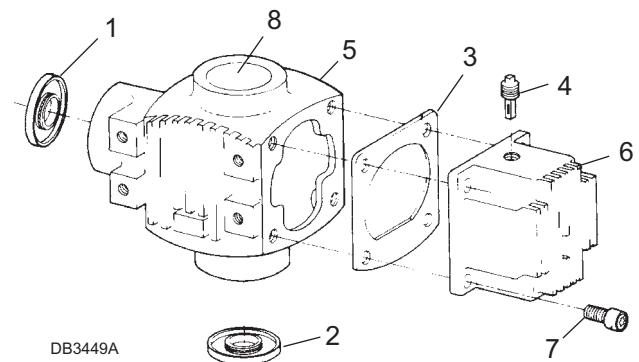


Figure 19 Gearbox Repair

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### Install Seal

Proper seal installation is important. An improperly installed seal will leak and could result in bearing failure.

1. Clean areas in housing where seal outer diameter seats. Inspect gear shafts. Pay specific attention to areas where seals seat. Check for cracks, grooves, nicks or bumps. Replace housing or shaft if damage cannot be repaired by resurfacing with emery cloth.
2. Lubricate seal lip and carefully guide over shaft using a blunt tool such as a letter opener. Be careful not to roll seal lip under. Do not use a knife as it will nick and ruin seal.

3. Place seal squarely on housing (spring-loaded lip toward inside of gearbox). Select a seal driver, a piece of pipe or tubing with an OD that will set on outside edge of seal but will clear housing. A driver that is too small will bow seal cage and ruin seal.

4. Carefully press seal into housing, preventing distortion to metal seal cage. Seat vertical seal flush with housing and horizontal seal against shoulder in housing.

Distortion to seal case or damage to seal lip will cause seal to leak. Remove and replace seals damaged in installation.

5. Check for proper vent plug operation and fill gearbox with 8 oz. of SAE 90W gear lube.

## DEALER SERVICE Cont'd

### Install Drive Pulley

1. Install drive pulley (19) with split taper bushing (12) on gearbox vertical shaft. Make sure key (82) and keyways are aligned.
2. Position center line of drive pulley (19)  $15/16"$  (plus or minus  $1/32"$ ) above mounting surface of gearbox stand (20) as shown. **This is a very critical dimension and must be held.**
3. Alternately tighten split taper bushing set screws to 14 lbs.-ft. Check mounting distance to make sure it is correct.

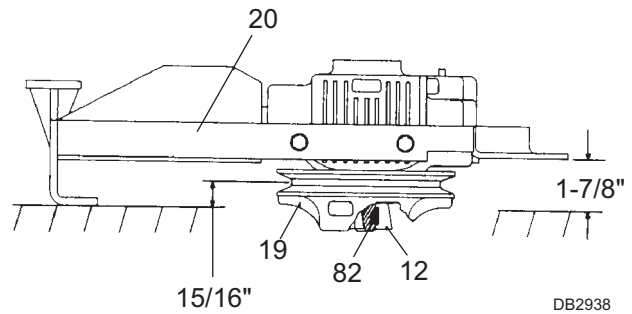


Figure 20 Drive Pulley Dimensions

## NOTES

# TROUBLE SHOOTING

<b>TROUBLE SHOOTING MOWING CONDITIONS</b>		
<b>Problem</b>	<b>Possible</b>	<b>Solutions</b>
Grass cut higher in center of swath than at edges	Height of mower higher at front than at rear  Loose blades	Check cutting height adjustment. Refer to chart on page 9  Check clamping cup washers. Replace if flat or not holding.
Grass cut lower in center of swath than at edges	Height of mower lower at front than at rear  Loose blades	Check cutting height adjustment. Refer to chart on page 9.  Check clamping cup washers. Replace if flat or not holding
Streaking conditions in swath	Conditions too wet for mowing  Blades unable to cut grass pressed down by path of tractor tires  Dull blades	Allow grass to dry before mowing.  Slow ground speed of tractor but keep mid-PTO running at 2000 rpm. Cutting lower will help. Under some conditions it is impossible to pick up and cut grass pressed down by tires.  Sharpen or replace blades.
Material discharges from mower unevenly; bunches of material along swath.	Material too high and too much material    Grass wet  Rear of mower too low, trapping material under mower  Clipping packed to underside of mower	Reduce ground speed but operate tractor mid-PTO at 2000 rpm maximum, or make two passes over material. Raise mower for the first pass and lower to desired height for the second and cut at 90 degrees to first pass. Raise rear of mower high enough to permit material discharge but not so high that conditions listed above occur.  Allow grass to dry before mowing. Slow ground speed of tractor but keep mid-PTO at 2000 rpm maximum. Cutting lower will help.  Adjust mower height. Refer to chart. page 9  Remove clippings and clean underside of mower.
Erratic mower operation; mower slows down without tractor engine slowing	Belt slippage	See Trouble Shooting Belt Conditions, page 28.



## Trouble Shooting Cont'd.

<b>TROUBLE SHOOTING BELT CONDITIONS</b>		
<b>Problems</b>	<b>Possible</b>	<b>Solutions</b>
Belt slippage	Mower overloading; material too tall or heavy	Reduce tractor ground speed but operate mid-PTO at 2000 rpm. Cut material twice, one high pass and then mow at desired height. Cut a partial swath.
	Oil on belt from over-lubrication	Be careful not to over-lubricate. Clean lubricant from belt and pulleys with clean rag. Replace oil-soaked belt.
	Belt hung up or rubbing	Check belt for free travel in pulleys and belt guides. Check under mower and around blade spindle shafts for wire, rags, or foreign material. Clean material from under mower.
	Belt or pulleys worn out	If belt rides in bottom of pulley groove, either belt or pulley is worn and must be replaced.
Frayed edges on belt cover	Belt misaligned	Re-align belt. Be sure belt does not rub any other part while running.
Belt rollover	Damaged belt	Inspect all pulley grooves for rust, paint, or weld spots and remove.
	Foreign object in pulley grooves	Replace pulley.
Damaged belt	Rollover, high shock loads, or installation damage	Replace belt.*
Belt breakage	High shock loads	Avoid abusive mowing. Avoid hitting the ground or obstructions.
	Belt came off drive	Check pulleys for foreign material in grooves. Avoid hitting solid objects or ground.

\* Check belt for damage by laying it flat on the floor. A belt that does not lay flat (has humps or twists, indicating broken or stretched cords) it must be replaced.

# ASSEMBLY

## DEALER SET-UP INSTRUCTIONS

Assembly of this mower is the responsibility of the Woods dealer. It should be delivered to the owner completely assembled, lubricated, and adjusted for normal mowing conditions.

Set up the mower as received from the factory with these instructions. Complete check lists on page 42 when assembly is completed.

The mower is shipped partially assembled. Assembly will be easier if components are aligned and loosely assembled before tightening hardware. Recommended torque values for hardware are located on page 52.

Select a suitable working area. Open parts boxes and lay out parts and hardware to make location easy. Refer to illustrations, accompanying text, parts lists, and exploded view drawings.

## Adjust Wheel Stop Bolt

### IMPORTANT

■ On all four wheel drive mountings, the front tractor wheel stop bolts must be set. Failure to adjust may result in damage to tractor or mower.

1. The wheel stop bolts are located on the rear of the front axle.
2. Loosen jam nut and adjust bolt in or out as necessary to obtain 18mm or 23/32" from axle casting to top of bolt. Tighten jam nut.

## Install Front Mounting Plate

1. Install right and left front mounting plates (1 & 3) outside tractor frame (4), using two bolts (8) and flange locknuts (7).
2. Install mounting plate brace bar (2) between mounting plates with carriage bolts (6) and locknuts (5).

1. Left front mounting plate
2. Mounting plate brace bar
3. Right front mounting plate
4. Tractor frame
5. 3/8 Hex lock nut
6. 3/8 x 1-1/4 Carriage bolt
7. 5/8 Lock nut
8. 5/8 x 1-1/2 Cap screw

### WARNING

■ Keep all persons away from operator control area while performing adjustments, service, or maintenance.

### CAUTION

■ Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head.

## Mid-PTO Operation

Refer to the tractor owner's manual for mid-PTO operation.

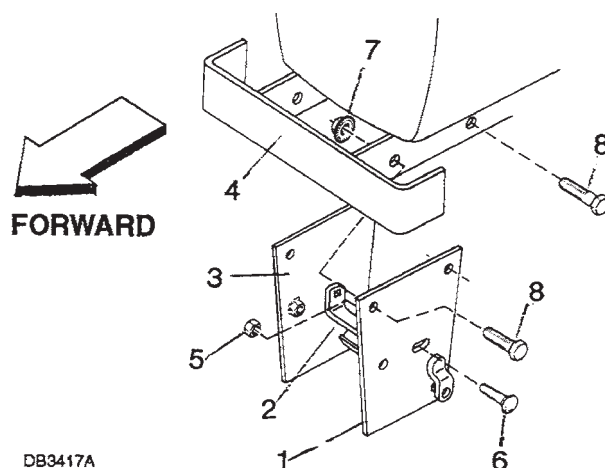


Figure 21 Front Mounting Plate Installation

## Assembly Instructions *Cont'd*

### Install Left Front Lift Stop

1. Attach left front lift stop (4) and spacer plate (2) to tractor clutch housing mounting pad (5) with bolts (10 & 11). Bolt (10) is 5 mm shorter than bolt (11). Use the shorter bolts in the top holes of spacer plate (2) and bolts (11) in the center holes.

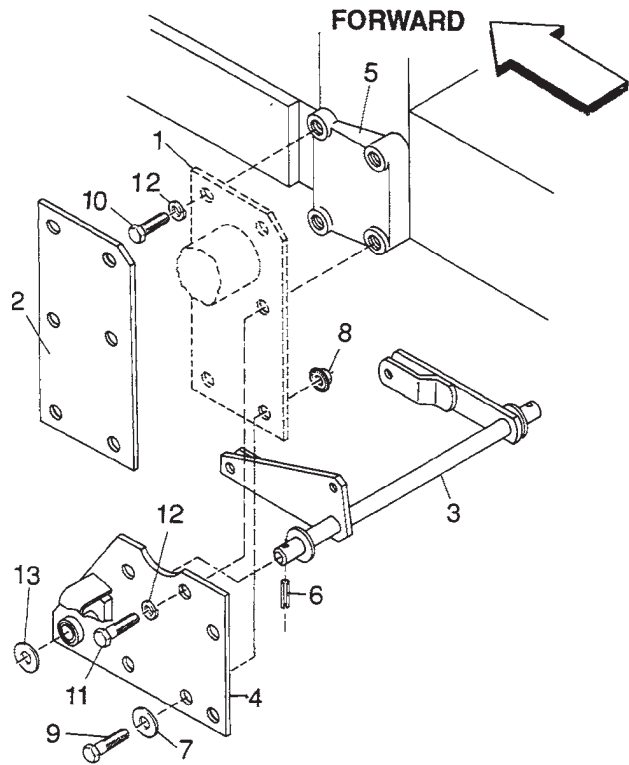
**NOTE:** Do not use spacer plate if tractor is equipped with front loader. When front loader mounting bracket (1) is installed, spacer plate (2) is not required. Do not use hardware from loader bracket to install left front lift stop (4); use the hardware supplied with mower.

2. Place a hardened flat washer (12) on bolts (10 & 11) and insert through spacer plate and into tractor clutch housing mounting pad (5).

3. Place flat washers (7) on bolts (9) and insert through bottom holes. Secure bolts (9) with locknuts (8).

4. Hand tighten all hardware.

5. Insert rockshaft (3), clevis forward as shown, through lift stop (4). Place washer (13) over rockshaft and secure with spiro pin (6).



**Figure 22** Left Front Lift Stop Installation

1. Loader mounting bracket
2. Spacer plate
3. Front rock shaft assembly
4. Left front lift stop
5. Tractor clutch housing mounting pad
6. 1/4 x 2 Spirol pin
7. 1/2 Flat washer
8. 1/2 Flange lock nut
9. 1/2 x 1-3/4 Cap screw
10. 14mm x 35mm Cap screw
11. 14mm x 40mm Cap screw
12. 9/16 Hardened flat washer
13. 1" Flat washer

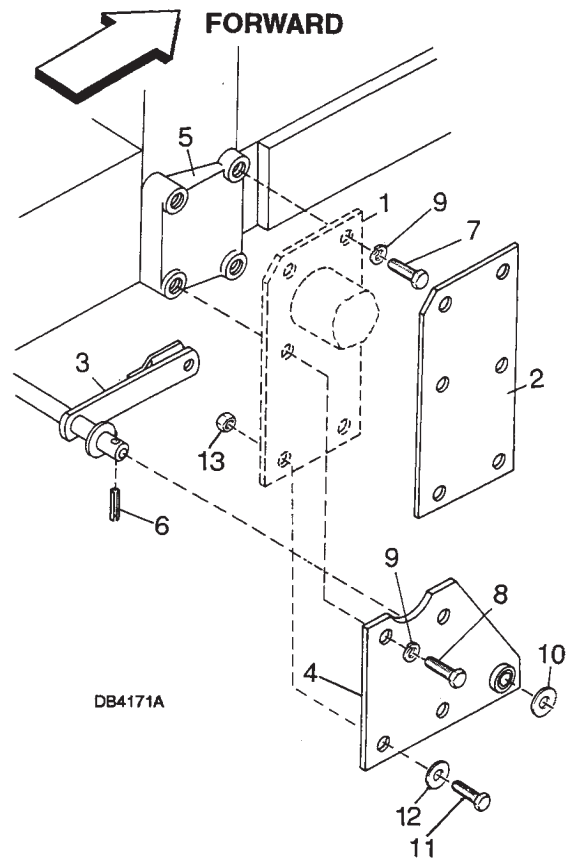
## Assembly Instructions *Cont'd*

### Install Right Front Lift Stop

1. Slide right front lift stop (4) over rockshaft (3).
2. Place spacer plate (2) over front lift stop and secure both to tractor clutch housing mounting pad (5) with bolts (7 & 8) and hardened flat washers (9).

**NOTE:** If loader mounting bracket (1) is installed, do not use spacer plate. Attach lift stop directly to loader mounting bracket.

3. Bolt (7) is 5 mm shorter than bolt (8). Use the shorter bolts (7) in the top holes of spacer plate (2) and bolts (8) in the center holes.
4. Place a hardened flat washer (9) on bolts (7 & 8) and insert through spacer plate and into tractor clutch housing mounting pad (5).
5. Place washers (12) on bolts (11) and through bottom holes. Secure bolts (9) with locknuts (13).
6. Hand tighten all hardware.
7. Position both lift stops and rockshaft so rockshaft rotates freely, then tighten the 14 mm bolts to 95 lbs.-ft. and the 1/2" hardware to 85 lbs.-ft. on both front lift stops.
8. Place washer (10) over rockshaft and secure with spirol pin (6).



**Figure 23** Right Front Lift Stop Installation

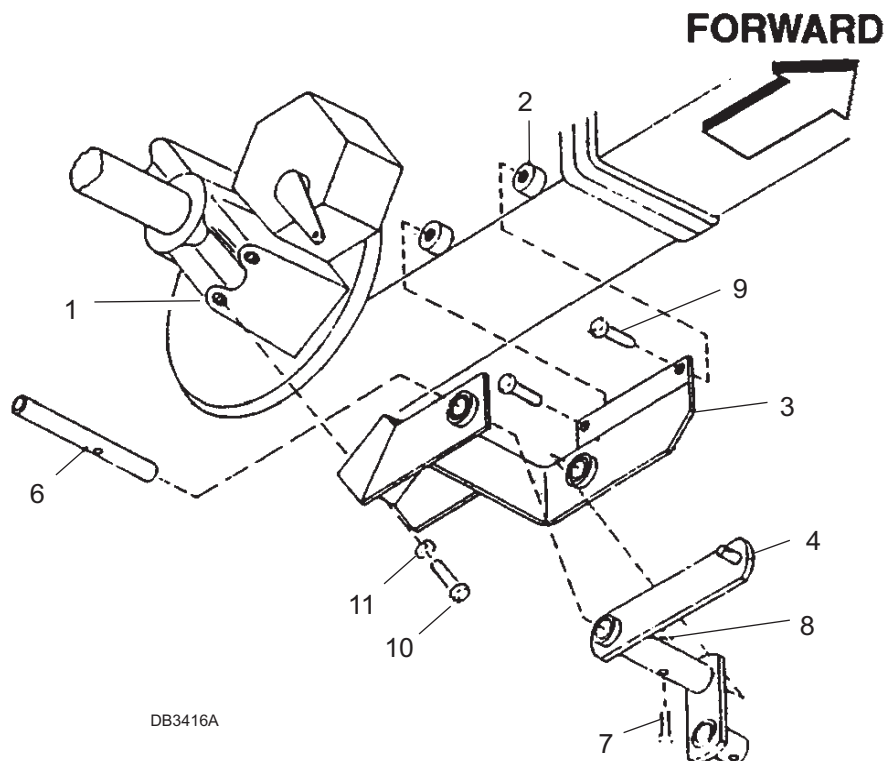
1. Loader mounting bracket (if installed)
2. Spacer plate
3. Front rockshaft assembly
4. Right front lift stop
5. Tractor clutch housing mounting pad
6. 1/4 x 2" Spirol pin
7. 14 mm x 35 mm Bolt
8. 14 mm x 40 mm Bolt
9. 9/16" Hardened flat washer
10. 1" Flat washer
11. 1/2 x 1-3/4" Bolt
12. 1/2" Flat washer
13. 1/2" Flanged locknut

## Assembly Instructions *Cont'd*

### Install Right Rear Rockshaft

1. Jack up rear of tractor, block securely, and remove right rear tire.
2. Apply Loctite<sup>®a</sup> 242 to both 12 mm x 25 mm bolts (9).
3. Install right rear rockshaft mounting bracket (3) to tractor transmission (2), using bolts (9). Secure to tractor axle mounting pad (1), using bolts (10) and hardened flat washers (11).
4. Hand tighten hardware.
5. Place right rear rockshaft assembly (4) into mounting bracket (3) and insert rockshaft bar (6).
6. Align holes of rockshaft bar (6) and right rear rockshaft assembly (4). Secure with bolts (7) and locknuts (8).
7. Do not tighten hardware at this time.
8. Re install the right rear tire.

1. Tractor rear axle mounting pad
2. Tractor transmission
3. Right rear rockshaft mounting bracket
4. Right rear rockshaft assembly
6. Rockshaft bar
7. 3/8 x 1-3/4 Bolt
8. 3/8" Hex locknut
9. 12 mm x 25 mm Bolt
10. 14 mm x 30 mm Bolt
11. 9/16" Hardened flat washer



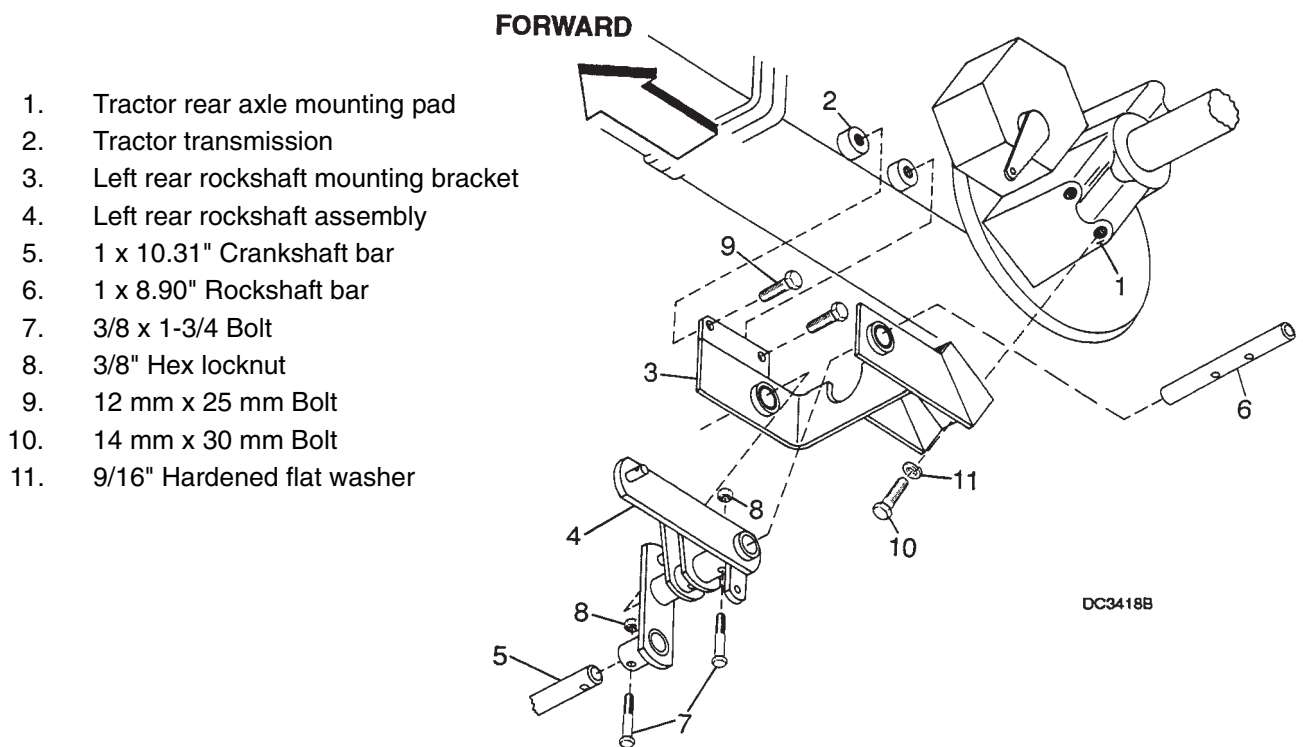
**Figure 24** Right Rear Rockshaft Installation

a. Loctite is a registered trademark of the Loctite Corporation.

## Assembly Instructions *Cont'd*

### Install Left Rear Rockshaft

1. Jack up rear of tractor, block securely, and remove left rear tire.
2. Apply Loctite<sup>®a</sup> 242 to both 12 mm x 25 mm bolts (9).
3. Install left rear rockshaft mounting bracket (3) to tractor transmission (2), using bolts (9). Secure to tractor axle mounting pad (1), using bolts (10) and hardened flat washers (11).
4. Hand tighten hardware.
5. Place left rear rockshaft assembly (4) into mounting bracket (3) and insert rockshaft bar (6).
6. Align holes of rockshaft bar (6) and left rear rockshaft assembly (4). Secure with bolts (7) and locknuts (8).
7. Pass crankshaft bar (5) through rockshaft assembly (4) and right rockshaft assembly. Align holes of crankshaft bar holes in both right and left rockshaft assemblies. Secure with bolts (7) and locknuts (8).
8. Position left rear rockshaft mounting bracket (3) so that both right and left rockshaft assemblies rotate freely. It may be necessary to loosen the right side mounting and reposition.
9. After making adjustments, torque all 12 mm bolts (9) to 75 lb.-ft., 14 mm bolts (10) to 85 lb.-ft., and 3/8 bolts (7) to 35 lbs.-ft.
10. Reinstall the left rear tire.



**Figure 25** Left Rear Rockshaft Installation

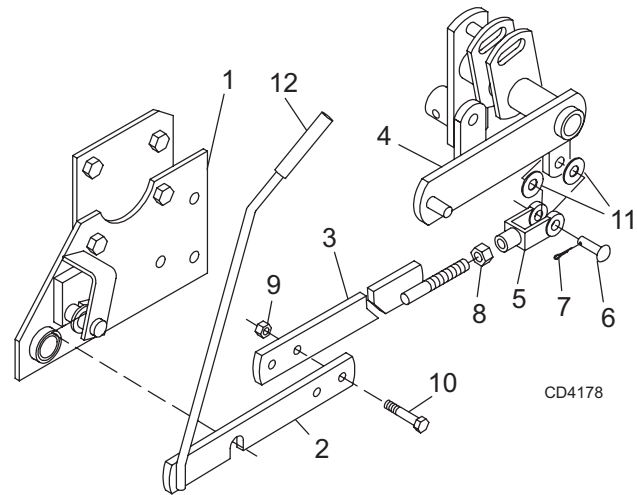
a. Loctite is a registered trademark of the Loctite Corporation.

## Assembly Instructions *Cont'd*

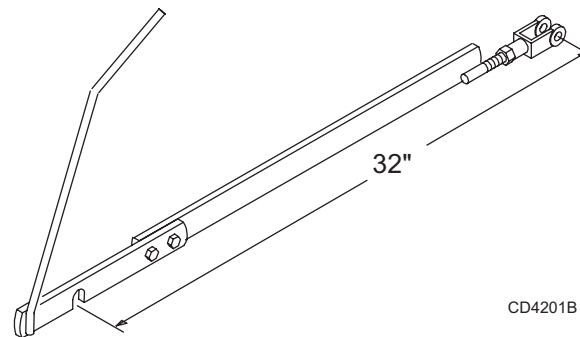
### Install Transport Lock-Up

- Slide lock-up bar (2) into left front lift stop (1).
- Attach lock-up bar extension (3) using 1-1/4" hex bolts (10) and 3/8" locknut (9).
- Thread 1/2" jam nut (8) and clevis yoke (5) onto lock-up bar to obtain the 32" dimension shown in Figure 27. Hand tighten jam nut (8) against clevis yoke (5).
- Secure clevis yoke (5) to rear rockshaft assembly (4) with clevis pin (6). Flat washers (11) must be installed as shown in Figure 26.
- Secure clevis pin (6) with cotter pin (7). Do not spread cotter pin at this time.
- Install handle grip (12) on lock-up bar (2)

- Front lift stop
- Lock-up bar
- Lock-up bar extension
- Rear rockshaft assembly
- Clevis yoke
- 1/2 x 1-3/4" Clevis pin
- 3/16" x 1 Cotter pin
- 1/2" Jam nut
- 3/8" Locknut
- 3/8 x 1-1/4" Bolt
- 1/2" Flat washer
- Handle grip



**Figure 26** Transport Lock-Up Installation



**Figure 27** Lock-Up Bar Length

## Assembly Instructions *Cont'd*

### Assemble Mechanical Lift Pull Rod

1. Thread jam nut (17) onto pull rod (7) until it bottoms out.

**NOTE:** For tractor models 7000, 7200, and 7205, use pull rod (7A) with bend up to clear hydraulic line.

2. Thread clevis yoke (8) onto pull rod (7) to obtain a 33-1/4" dimension from center to center between the clevis and rod holes as shown. Hand tighten jam nut (17) against clevis yoke (8).

3. Attach pull rod assembly (17) to lug (21) on left rear rockshaft (6) and secure with washer (15) and cotter pin (16).

4. Connect clevis yoke (8) to front rockshaft (1) with clevis pin (12) and secure with cotter pin (16). Do not spread pin at this time.

5. Remove left lower 3-point arm (9) from lift mounting plate (4).

6. Remove the three axle housing bolts (19) and replace lift mounting plate (4) with the lift mounting plate supplied with mower lift kit.

7. Reinstall the three 12mm bolts and torque to 75 lbs.-ft.

8. Slide rear lift arm assembly (5) over lower 3-point arm (9) and slide both onto pin of lift mounting plate (4). Secure with Klik pin (10).

9. Thread clevis yoke (8) onto rear pull rod (3) to obtain 16.5" length.

10. Connect rear pull rod (3) to rear rockshaft (6) using clevis pin (14) and secure with washer (13) and cotter pin (16).

11. Connect clevis yoke (8) to rear lift arm assembly (5) with clevis pin (11) and cotter pin (16).

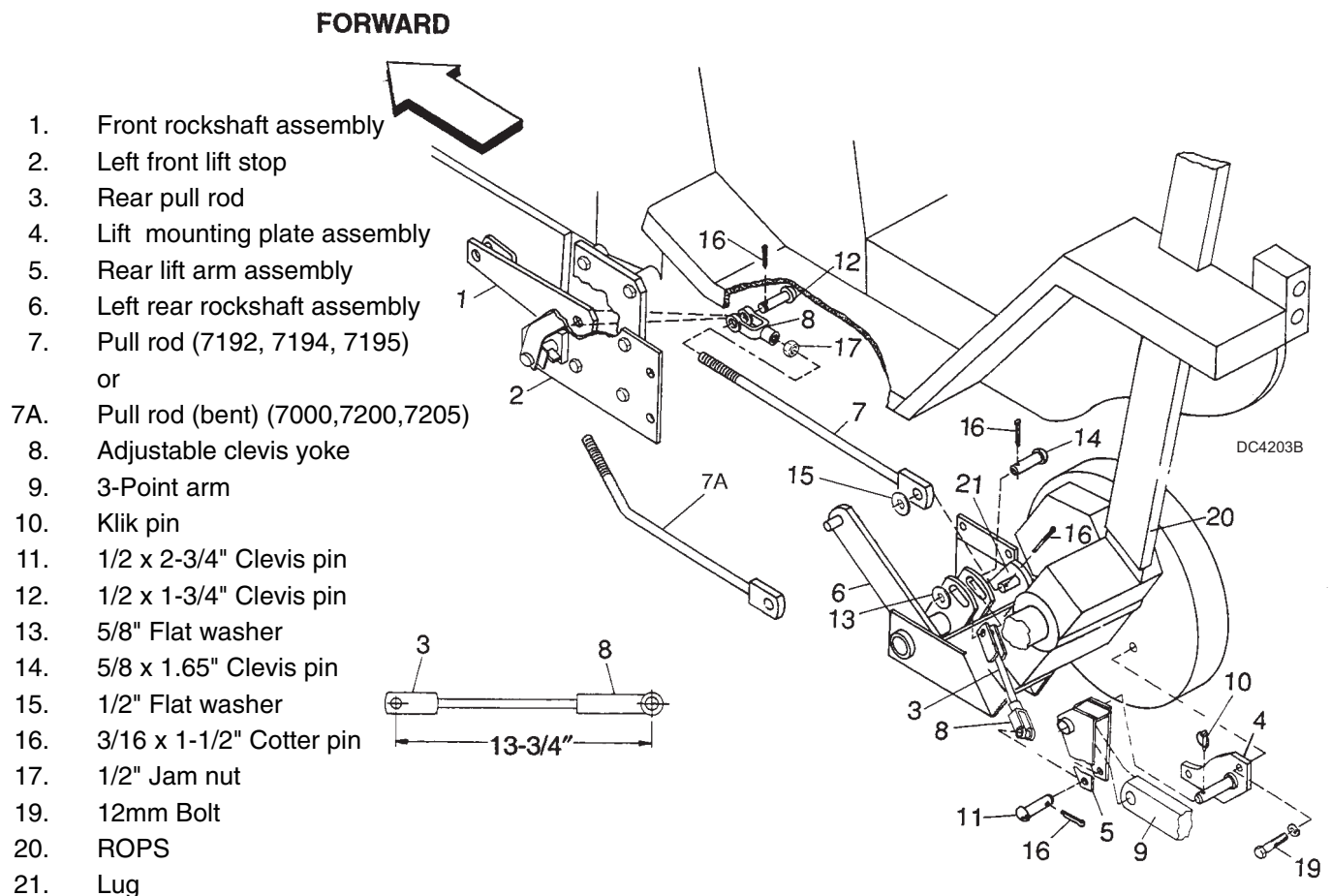


Figure 28 Mechanical Lift Pull Rod Assembly



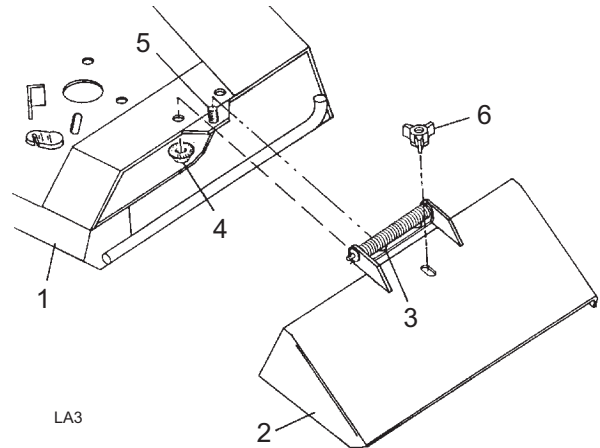
## Assembly Instructions *Cont'd*

### PREPARE MOWER

#### Install Discharge Chute

1. Position discharge chute (2) over stud (5) on mower frame (1).
2. Install carriage bolts (3) (attached to discharge chute assembly) and secure with nuts (4).
3. Install knob (6) on stud (5).

1. Mower frame
2. Discharge chute
3. 3/8 x 1-1/4" Carriage bolt
4. 3/8" Nut
5. 3/8" Stud
6. 3/8" Knob



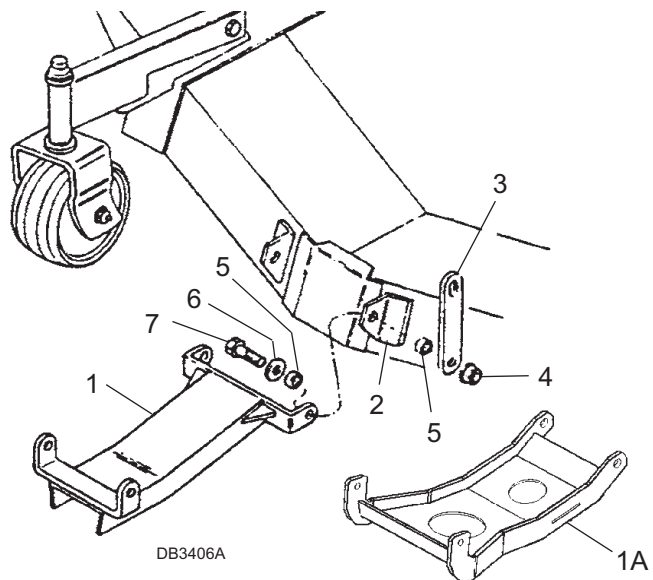
**Figure 29** Discharge Chute Installation

#### Install Mounting Channel & Lift Bar

**NOTE:** 7000, 7200 and 7205 tractors use alternate front channel (1A).

1. Insert sleeve (5) into front mounting channel (1). Place washer (6) on bolt (7) and insert through sleeve (5) and front lift bracket (2).
2. Slide second sleeve (5) over bolt (7) and install front mower lift bar (3). Secure with flanged locknut (4).
3. Repeat this procedure for opposite side of front mounting channel.

1. 7192, 7194, & 7195 Front mount channel
- 1A. 7000, 7200, & 7205 Front mount channel
2. Front lift bracket
3. Front mower lift bar, 6.5"
4. 1/2" Flanged locknut
5. 1/2 x 3/4 x 1/2" Sleeve
6. 1/2" Flat washer
7. 1/2 x 2" Bolt



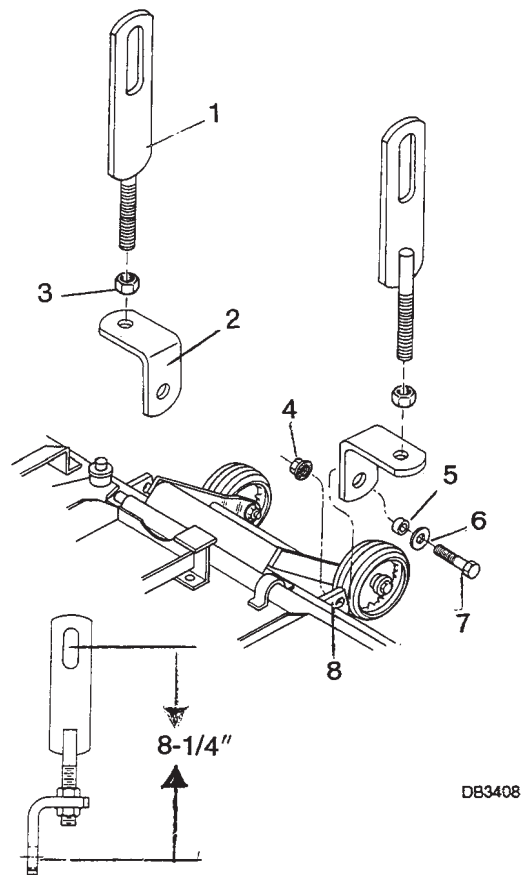
**Figure 30** Front Channel Installation

## Assembly Instructions *Cont'd*

### Install Rear Lift Bars

1. Thread jam nut (3) onto upper rear lift bar (1) until it bottoms out.
2. Thread upper rear lift bar into lower rear lift bar (2) to obtain the 8-1/4" dimension shown.
3. Hand tighten jam nut against lower rear lift bar.
4. Place washer (6) and sleeve (5) over bolt (7) and insert through lower rear lift bar (2) and rear lift bracket (8). Secure with flanged locknut (4).
5. Repeat procedure for opposite side.

1. Upper rear lift bar
2. Lower rear lift bar
3. 1/2" Jam nut
4. 1/2" Flanged locknut
5. 1/2 x 3/4 x 1/2" Sleeve
6. 1/2" Flat washer
7. 1/2 x 1-1/2" Bolt
8. Rear lift bracket

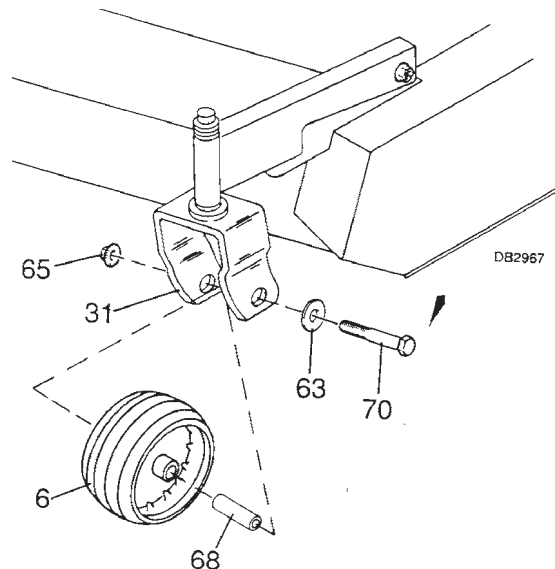


**Figure 31** Rear Lift Bar Installation

### Install Front Caster Wheel

1. Insert sleeve (68) through wheel (6).
2. Place washer (63) on bolt (70) and insert through yoke (31) and sleeve in wheel.
3. Tighten flanged locknut (65) until yoke (31) contacts both ends of sleeve (68).
4. Check that wheel turns freely. Loosen and retighten if necessary.
5. Repeat procedure for opposite front caster wheel.

6. Caster wheel
31. Wheel yoke
63. 1/2" Flat washer
65. 1/2" Flanged locknut
68. 1/2 x 3/4 x 3-3/8" Sleeve
70. 1/2 x 5" Bolt



**Figure 32** Front Caster Wheel Installation

## Assembly Instructions *Cont'd*

### Install Rear Gauge Wheel

1. Assemble gauge wheel with grease fitting facing outward for lubrication access.

1. Insert sleeve (68) through wheel (6).
2. Place washer (63) on bolt (69) and insert through sleeve in wheel and rear gauge wheel arm (7).
3. Secure with flanged locknut (65).
4. Repeat for opposite side.

- 6. Gauge wheel
- 7. Rear gauge wheel arm
- 63. 1/2" Flat washer
- 65. 1/2" Flanged locknut
- 68. 1/2 x 3/4 x 3-3/8" Sleeve
- 69. 1/2 x 4-1/2" Bolt

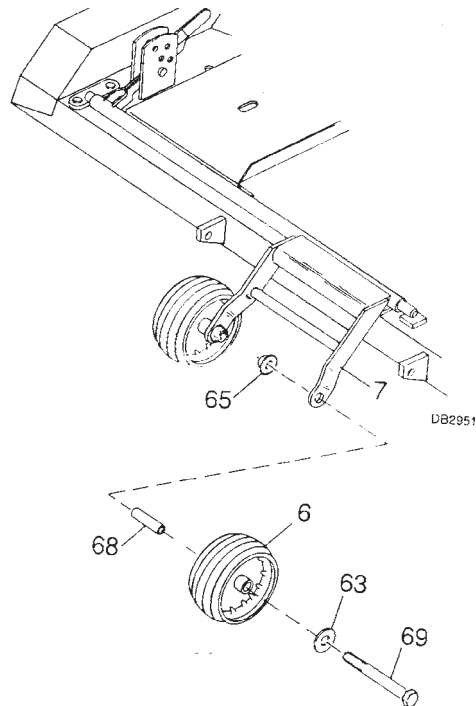


Figure 33 Rear Gauge Wheel Installation

### Install Mid-PTO Driveshaft

#### IMPORTANT

■ Stake end of keyway to secure key.

1. Insert key (3) into gearbox (2) input shaft.
2. Install driveshaft (1) onto gearbox shaft and secure with spirol pin (4).

- 21. Driveshaft assembly
- 22. Gearbox
- 46. 1/4 x 1/4 x 7/8" Key
- 60. 3/8 x 1-1/2" Spirol pin

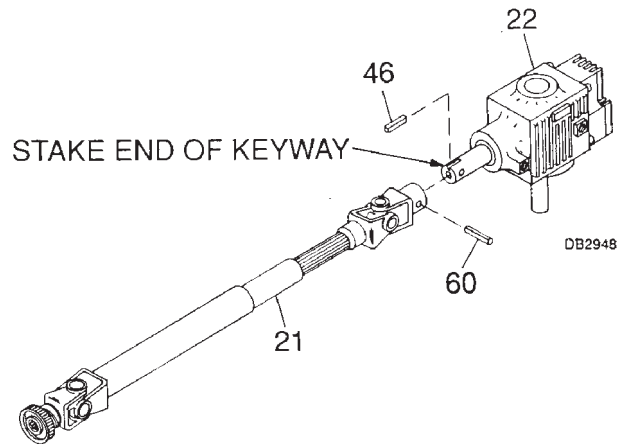


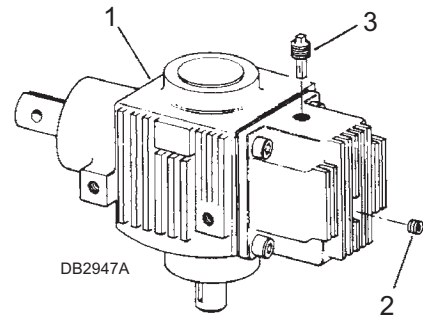
Figure 34 Driveshaft Installation

## Assembly Instructions *Cont'd*

### Install Gearbox Vent Plug

1. Remove and discard solid plug from top of gearbox cover.
2. Remove level plug (2) when filling and checking oil level.
3. Fill gearbox with SAE 90W oil until it reaches level hole in front of gearbox.
4. Reinstall level plug.
5. Install plastic vent plug (3) from bag of parts.

1. Gearbox
2. Level plug
3. Vent plug



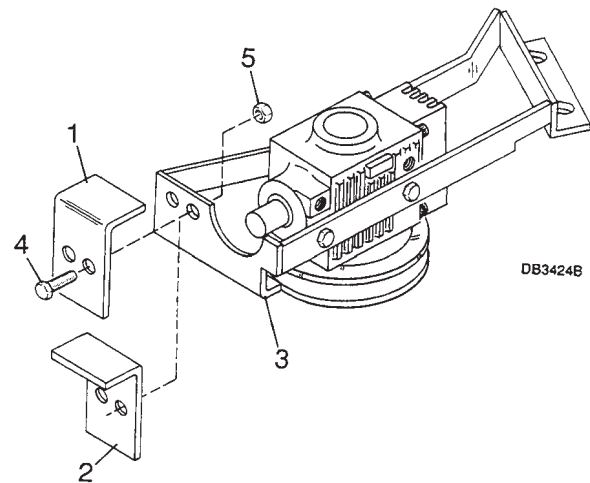
**Figure 35** Vent Plug Installation

### Install Rear Lift Stop

1. Attach rear lift stop (1) to gearbox stand (3) with two bolts (4) and locknuts (5) as shown.

**NOTE:** Rear lift stops (1 & 2) are the same part, mounted differently for gear and hydro tractors.

1. Rear lift stop (Hydro)
2. Rear lift stop (Gear)
3. Gearbox stand
4. 3/8 x 1" Bolt
5. 3/8" Locknut



**Figure 36** Rear Lift Stop Installation

## Assembly Instructions *Cont'd*

### Attach Mower to Tractor

Refer to Figure 37.

#### **WARNING**

■ **Keep all persons away from operator control area while performing adjustments, service, or maintenance.**

■ **Make sure spring-activated locking pin or collar slides freely and is seated firmly in tractor PTO spline groove.**

1. Be sure belt shields are installed on mower.
2. Remove lynch pins from front caster arms.
3. Remove clevis pin from rear gauge wheel handle. Make sure rear mower lift bars (8) are down as far as possible.
4. Make sure that driveshaft (9) is between lift bars (8).
5. Drive tractor up to mower frame. Position boards between front tractor tires and mower to serve as a transition ramp, and drive tractor over frame.
6. Attach front mounting channel (4) to front mounting plates (3) with spring-loaded front channel pin (2).
7. Attach front mounting plate cover (1) to front mounting plates (3) with bolts (15) and washers (14).

8. Place front lift bars (6) in clevis portion of front rockshaft (7). Attach with clevis pins (17) and klik pins (13).

9. Place rear mower lift bars (8) over stud on rear rockshaft (10 & 11) and secure with washer (16) and Klik pin (13).

10. Attach driveshaft (9) to mid-PTO shaft (12).

1. Front mounting plate cover
2. Spring-loaded front channel pin
3. Front mounting plate assembly
4. Front mounting channel
5. Mower frame
6. Front mower lift bar
7. Front rockshaft assembly
8. Rear mower lift bar
9. Driveshaft assembly
10. Right rear rockshaft assembly
11. Left rear rockshaft assembly
12. Tractor mid-PTO
13. 3/16 x 1" Klik pin
14. 5/16" Flat washer
15. 5/16 x 3/4" Bolt
16. 1/2" Flat washer
17. 1/2 x 1-3/4" Clevis pin

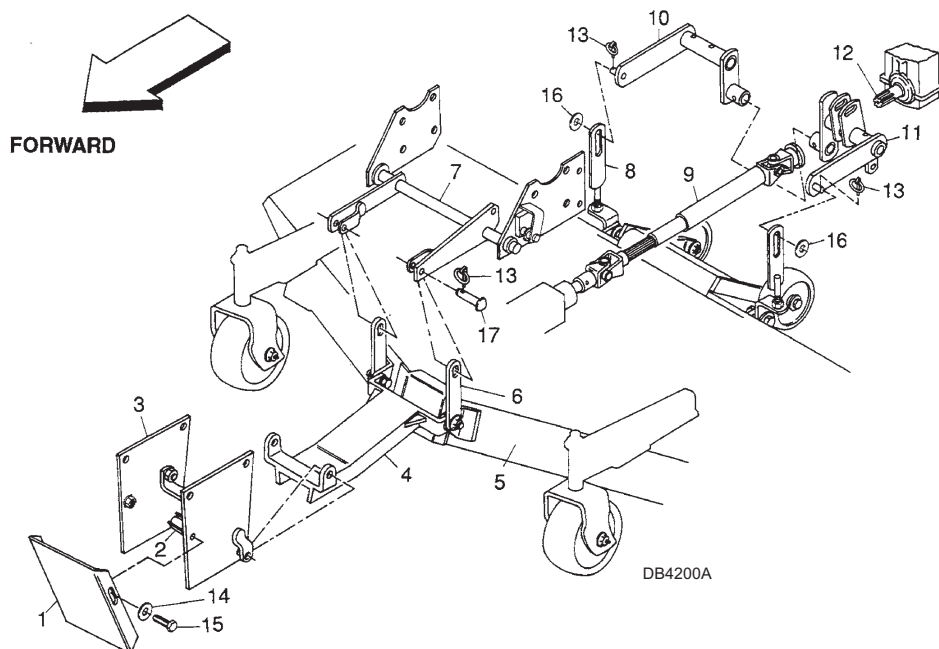


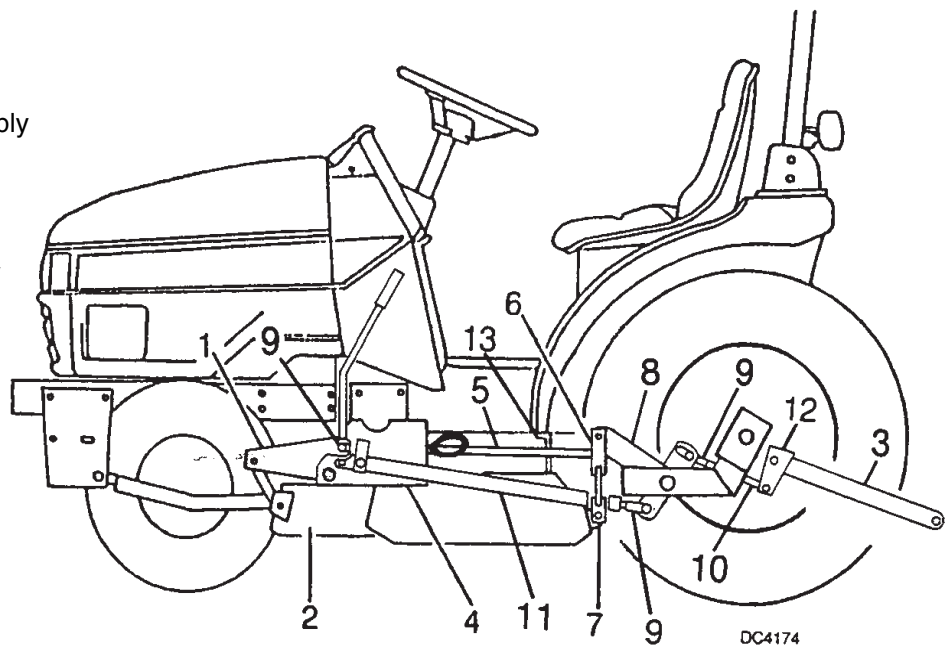
Figure 37 Attach Mower to Tractor

## Assembly Instructions *Cont'd*

### Adjust Mower with Mechanical Lift

1. Remove clevis pin connecting rear pull rod (10) to the rear lift arm assembly (12).
2. Raise tractor lower 3-point lift arms (3) to their highest position.
3. Remove clevis pin that connects clevis yoke (9) to front rockshaft (1).
4. Block mower frame (2) up against front lift stop (4) and so rear lift stop (13) contacts tractor transmission.
5. With tractor lower 3-point arms (3) in their highest position, rotate rear rockshaft (8) up and adjust rear pull rod (10) until clevis pin connecting rear pull rod (10) to rear lift arm assembly (12) just slips in. Install clevis pin and secure with cotter pin.
6. Rotate front rockshaft assembly (1) up and adjust clevis yoke (9) on pull rod (5) until clevis pin just slips in. Install clevis pin and secure with cotter pin.
7. Remove block from mower frame. The deck will drop slightly. Readjust clevis (9) and rear pull rod (10) so mower just contacts lift stops when 3-point arms are at maximum lift height.
8. With tractor 3-point arms at their maximum lift height, adjust lock-up bar (11) and clevis (9) so slot on lock-up bar will just drop into lock position. Spread cotter pin on clevis pin that connects clevis yoke (9) to rear rockshaft (8).

1. Front rockshaft assembly
2. Mower frame
3. 3-Point lift arm
4. Front lift stop
5. Pull rod
6. Upper rear lift link
7. Lower rear lift link
8. Rear rockshaft assembly
9. Adjustable clevis yoke
10. Rear pull rod
11. Lock-up bar
12. Rear lift arm assembly
13. Rear lift stop



**Figure 38** Mechanical Lift Adjustment

## Assembly Instructions *Cont'd*

### PRE-DELIVERY CHECK LIST

#### (DEALER'S RESPONSIBILITY)

Inspect the equipment thoroughly after assembly to make sure it is set up properly before delivering it to the customer. The following check list is a reminder of points to inspect. Check off each item as it is found satisfactory, corrections are made, or services are performed.

- \_\_\_ Check all bolts to be sure they are properly torqued.
- \_\_\_ Check that all cotter pins and safety pins are properly installed. Replace if damaged.
- \_\_\_ Check and grease all lubrication points as identified in "Service, lubrication information"
- \_\_\_ Check the level of gearbox fluids before delivery. Service, if required, as specified in the "Service, lubrication information."
- \_\_\_ Check that blades have been properly installed.

### DELIVERY CHECK LIST

#### (DEALER'S RESPONSIBILITY)

- \_\_\_ Show customer how to make adjustments and select proper PTO speed.
- \_\_\_ Check mower attitude and belt alignment.
- \_\_\_ Instruct customer how to lubricate and explain importance of lubrication.
- \_\_\_ Point out the safety decals. Explain their meaning and the need to keep them in place and in good condition. Emphasize the increased safety hazards when instructions are not followed.
- \_\_\_ Point out all guards and shields. Explain their importance and the safety hazards that exist when not kept in place and in good condition.
- \_\_\_ Present Operator's Manual and request that customer and all operators read it before operating equipment. Point out the manual safety rules, explain their meanings and emphasize the increased safety hazards that exist when safety rules are not followed.
- \_\_\_ Explain to customer that when equipment is transported on a road or highway, a Slow Moving Vehicle (SMV) sign should be used to provide adequate warning to operators of other vehicles.

# PARTS

## CONTACT YOUR WOODS DEALER TO ORDER PARTS

### To locate your nearest dealer:

- Check the Dealer Locator at [www.WoodsEquipment.com](http://www.WoodsEquipment.com), or
- In the United States and Canada, phone 1-800-319-6637
- Outside the United States, phone 1-815-732-9509 plus the appropriate international dialing code for the USA

### To order correct parts, provide this information to your dealer:

- Model Number: \_\_\_\_\_
- Serial Number: \_\_\_\_\_



# BOLT TORQUE CHART

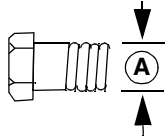
Always tighten hardware to these values unless a different torque value or tightening procedure is listed for a specific application.

Fasteners must always be replaced with the same grade as specified in the manual parts list.

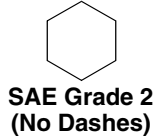
Always use the proper tool for tightening hardware: SAE for SAE hardware and Metric for metric hardware.

Make sure fastener threads are clean and you start thread engagement properly.

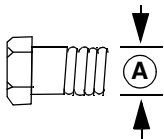
All torque values are given to specifications used on hardware defined by SAE J1701 & J1701M JUL96.



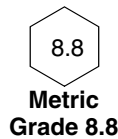
## SAE SERIES TORQUE CHART



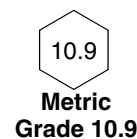
A Diameter (Inches)	Wrench Size	MARKING ON HEAD					
		SAE 2		SAE 5		SAE 8	
		Lbs.-Ft.	N-m	Lbs.-Ft.	N-m	Lbs.-Ft.	N-m
1/4"	7/16"	6	8	10	13	14	18
5/16"	1/2"	12	17	19	26	27	37
3/8"	9/16"	23	31	35	47	49	67
7/16"	5/8"	36	48	55	75	78	106
1/2"	3/4"	55	75	85	115	120	163
9/16"	13/16"	78	106	121	164	171	232
5/8"	15/16"	110	149	170	230	240	325
3/4"	1-1/8"	192	261	297	403	420	569
7/8"	1-15/16"	306	416	474	642	669	907
1"	1-1/2"	467	634	722	979	1020	1383



## METRIC SERIES TORQUE CHART

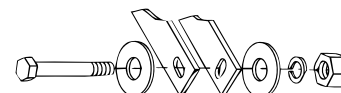
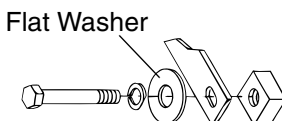
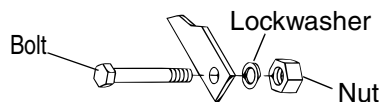


Metric Bolt Head Identification



A Diameter & Thread Pitch (Millimeters)	Wrench Size	COARSE THREAD				FINE THREAD				A Diameter & Thread Pitch (Millimeters)
		MARKING ON HEAD				MARKING ON HEAD				
		Metric 8.8		Metric 10.9		Metric 8.8		Metric 10.9		
		N-m	Lbs.-Ft.	N-m	Lbs.-Ft.	N-m	Lbs.-Ft.	N-m	Lbs.-Ft.	
6 x 1.0	10 mm	8	6	11	8	8	6	11	8	6 x 1.0
8 x 1.25	13 mm	20	15	27	20	21	16	29	22	8 x 1.0
10 x 1.5	16 mm	39	29	54	40	41	30	57	42	10 x 1.25
12 x 1.75	18 mm	68	50	94	70	75	55	103	76	12 x 1.25
14 x 2.0	21 mm	109	80	151	111	118	87	163	120	14 x 1.5
16 x 2.0	24 mm	169	125	234	173	181	133	250	184	16 x 1.5
18 x 2.5	27 mm	234	172	323	239	263	194	363	268	18 x 1.5
20 x 2.5	30 mm	330	244	457	337	367	270	507	374	20 x 1.5
22 x 2.5	34 mm	451	332	623	460	495	365	684	505	22 x 1.5
24 x 3.0	36 mm	571	421	790	583	623	459	861	635	24 x 2.0
30 x 3.0	46 mm	1175	867	1626	1199	1258	928	1740	1283	30 x 2.0

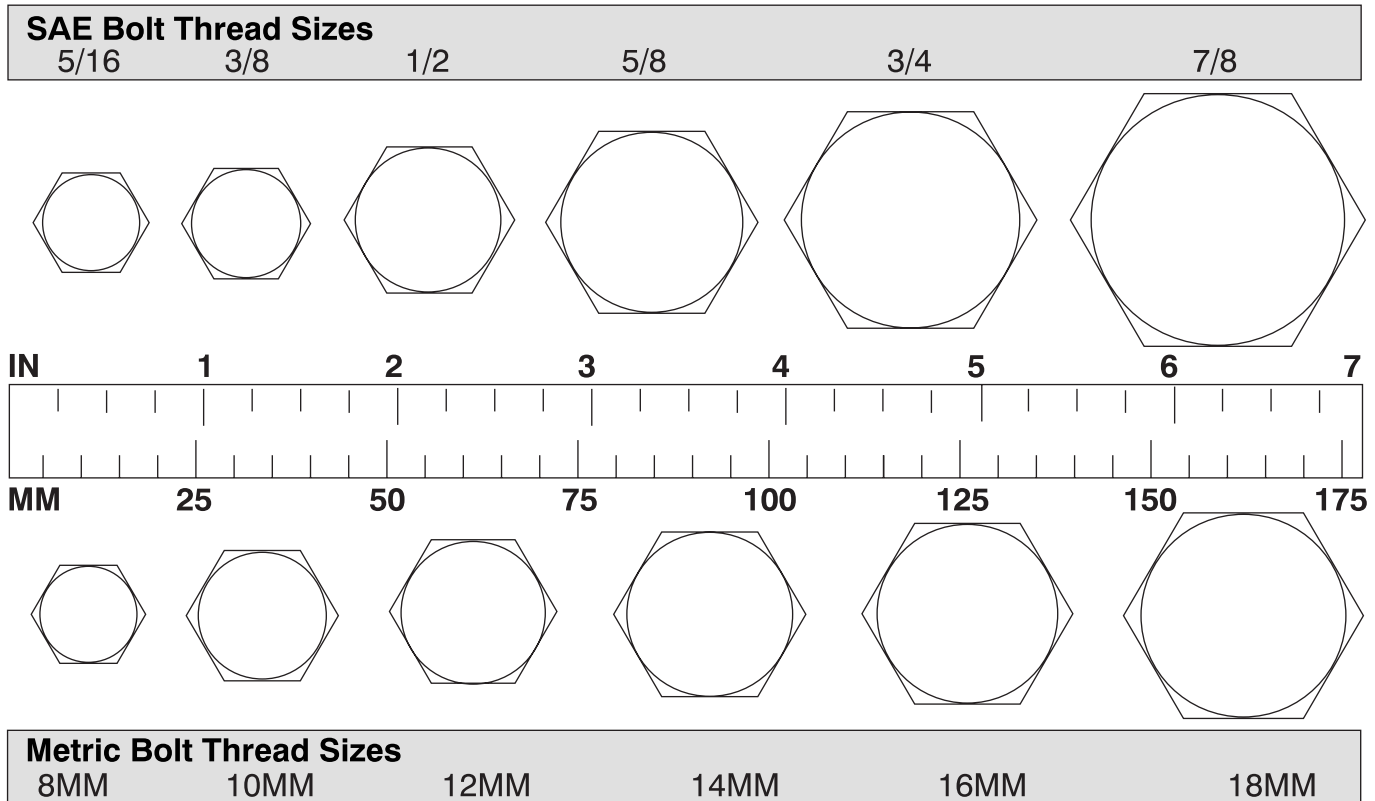
### Typical Washer Installations



8/900

# BOLT SIZE CHART

**NOTE:** Chart shows bolt thread sizes and corresponding head (wrench) sizes for standard SAE and metric bolts.



## ABBREVIATIONS

AG..... Agriculture  
 ATF ..... Automatic Transmission Fluid  
 BSPP ..... British Standard Pipe Parallel  
 BSPTM ..... British Standard Pipe Tapered Male  
 CV..... Constant Velocity  
 CCW ..... Counter-Clockwise  
 CW..... Clockwise  
 F ..... Female  
 GA ..... Gauge  
 GR (5, etc.) ..... Grade (5, etc.)  
 HHCS ..... Hex Head Cap Screw  
 HT..... Heat Treated  
 JIC ..... Joint Industry Council 37° Degree Flare  
 LH..... Left Hand  
 LT..... Left  
 m..... Meter  
 mm..... Millimeter  
 M..... Male  
 MPa ..... Mega Pascal  
 N..... Newton

NC ..... National Coarse  
 NF..... National Fine  
 NPSM ..... National Pipe Straight Mechanical  
 NPT ..... National Pipe Tapered  
 NPT SWF..... National Pipe Tapered Swivel Female  
 ORBM..... O-Ring Boss - Male  
 P ..... Pitch  
 PBY ..... Power Beyond  
 psi ..... Pounds per Square Inch  
 PTO ..... Power Take Off  
 QD ..... Quick Disconnect  
 RH ..... Right Hand  
 ROPS..... Roll Over Protective Structure  
 RPM..... Revolutions Per Minute  
 RT ..... Right  
 SAE ..... Society of Automotive Engineers  
 UNC ..... Unified Coarse  
 UNF ..... Unified Fine  
 UNS ..... Unified Special



## WARRANTY

(Replacement Parts For All Models Except Mow'n Machines)

WEC Company, d/b/a Woods Equipment Company ("WOODS"), warrants this product to be free from defect in material and workmanship for a period of ninety (90) days from the date of delivery of the product to the original purchaser with the exception of V-belts, which will be free of defect in material and workmanship for a period of 12 months.

Under no circumstances will this Warranty apply in the event that the product, in the good faith opinion of WOODS, has been subjected to improper operation, improper maintenance, misuse, or an accident. This Warranty does not cover normal wear or tear, or normal maintenance items.

This Warranty is extended solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this Warranty does not transfer to the third party purchaser in any way. There are no third party beneficiaries of this Warranty.

WOODS' obligation under this Warranty is limited to, at WOODS' option, the repair or replacement, free of charge, of the product if WOODS, in its sole discretion, deems it to be defective or in noncompliance with this Warranty. **The product must be returned to WOODS with proof of purchase within thirty (30) days after such defect or noncompliance is discovered or should have been discovered, routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid.** WOODS shall complete such repair or replacement within a reasonable time after WOODS receives the product. **THERE ARE NO OTHER REMEDIES UNDER THIS WARRANTY. THE REMEDY OF REPAIR OR REPLACEMENT IS THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY.**

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS WARRANTY. WOODS MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND WOODS SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

**WOODS shall not be liable for any incidental or consequential losses, damages or expenses, arising directly or indirectly from the product, whether such claim is based upon breach of contract, breach of warranty, negligence, strict liability in tort or any other legal theory.** Without limiting the generality of the foregoing, Woods specifically disclaims any damages relating to (i) lost profits, business, revenues or goodwill; (ii) loss of crops; (iii) loss because of delay in harvesting; (iv) any expense or loss incurred for labor, supplies, substitute machinery or rental; or (v) any other type of damage to property or economic loss.

This Warranty is subject to any existing conditions of supply which may directly affect WOODS' ability to obtain materials or manufacture replacement parts.

No agent, representative, dealer, distributor, service person, salesperson, or employee of any company, including without limitation, WOODS, its authorized dealers, distributors, and service centers, is authorized to alter, modify, or enlarge this Warranty.

Answers to any questions regarding warranty service and locations may be obtained by contacting:

### Woods Equipment Company

2606 South Illinois Route 2  
Post Office Box 1000  
Oregon, Illinois 61061

815-732-2141 tel  
815-732-7580 fax  
[www.WoodsEquipment.com](http://www.WoodsEquipment.com)

**ALITEC  
ALLOWAY  
BMP  
CENTRAL FABRICATORS  
GANNON  
GILL  
WAIN-ROY  
WOODS**



# WARRANTY

(All Models Except Mow'n Machines)

Please Enter Information Below and Save for Future Reference.

Date Purchased: \_\_\_\_\_ From (Dealer): \_\_\_\_\_

Model Number: \_\_\_\_\_ Serial Number: \_\_\_\_\_

WEC Company, d/b/a Woods Equipment Company ("WOODS"), warrants this product to be free from defect in material and workmanship. Except as otherwise set forth below, the duration of this Warranty shall be for TWELVE (12) MONTHS COMMENCING ON THE DATE OF DELIVERY OF THE PRODUCT TO THE ORIGINAL PURCHASER.

The warranty periods for certain gearboxes are listed below:

Model No.	Part Warranted	Duration
PHD25, PHD35, PHD65, PHD95, 1260, 2120, 2162, 3180, 3240, BB600, BB720, BB840, BB6000, BB7200, BB8400, BW180, RM550-2, RM660-2, RM990-3, RD6000-2, RD7200-2, RD8400-2, 7144RD-2, 9180RD-2, 9204RD-2	Gearbox components	5 years from the date of delivery to the original purchaser.
BB48, BB60, BB72, BB84, RCC42	Gearbox components	3 years from the date of delivery to the original purchaser.
BW180	Gearbox components	1 year from the date of delivery to the original purchaser if used in rental or commercial applications.

Under no circumstances will this Warranty apply in the event that the product, in the good faith opinion of WOODS, has been subjected to improper operation, improper maintenance, misuse, or an accident. This Warranty does not apply in the event that the product has been materially modified or repaired by someone other than WOODS, a WOODS authorized dealer or distributor, and/or a WOODS authorized service center. This Warranty does not cover normal wear or tear, or normal maintenance items. This Warranty also does not cover repairs made with parts other than those obtainable through WOODS.

This Warranty is extended solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this Warranty does not transfer to the third party purchaser in any way. There are no third party beneficiaries of this Warranty.

WOODS makes no warranty, express or implied, with respect to engines, batteries, tires or other parts or accessories not manufactured by WOODS. Warranties for these items, if any, are provided separately by their respective manufacturers.

WOODS' obligation under this Warranty is limited to, at WOODS' option, the repair or replacement, free of charge, of the product if WOODS, in its sole discretion, deems it to be defective or in noncompliance with this Warranty. **The product must be returned to WOODS with proof of purchase within thirty (30) days after such defect or noncompliance is discovered or should have been discovered, routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid.** WOODS shall complete such repair or replacement within a reasonable time after WOODS receives the product. THERE ARE NO OTHER REMEDIES UNDER THIS WARRANTY. THE REMEDY OF REPAIR OR REPLACEMENT IS THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY.

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This Warranty is subject to any existing conditions of supply which may directly affect WOODS' ability to obtain materials or manufacture replacement parts.

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