

# ERASER



# TABLE OF CONTENTS

SECTION	DESCRIPTION	PAGE
1	Introduction . . . . .	3
2	Warranty . . . . .	4
3	Predelivery . . . . .	5
4	Components . . . . .	6
5	Safety . . . . .	7
5.1	Safety Alert Symbol And Signal Words . . . . .	7
5.2	Operational Hazards . . . . .	7
5.2.1	Replace Safety Signs . . . . .	8
5.2.2	Prepare For Emergencies . . . . .	8
5.2.3	Do Not allow Riders . . . . .	8
5.2.4	Lower Operating Speed . . . . .	8
5.2.5	Prevent Rollover . . . . .	9
5.2.6	Avoid Power Lines And Underground Utilities . . . . .	9
5.2.7	Avoid Loud Noise . . . . .	9
5.2.8	Raised Rotor . . . . .	9
5.2.9	Avoid High Pressure Fluids . . . . .	9
5.3	Maintenance Hazards . . . . .	10
5.4	Hazards From Modifying Equipment . . . . .	10
5.5	Safety Warning Labels . . . . .	12
5.6	Sign Off Form . . . . .	14
6	Operation . . . . .	15
6.1	Attach To Skid Steer . . . . .	15
6.2	Pre-Operation Checklist . . . . .	15
6.3	Carbide Teeth Break In . . . . .	15
6.4	Operation . . . . .	15
6.4.1	First Time User Tips . . . . .	16
6.4.2	Grinding A Stump . . . . .	16
7	Routine Maintenance . . . . .	17
7.1	Maintenance Intervals . . . . .	17
7.2	Inspections . . . . .	17
7.3	Replace Cutting Teeth . . . . .	17
7.4	Replace Spider . . . . .	18
7.5	Change Gearbox Oil . . . . .	18
8	Troubleshooting . . . . .	19

# 1. INTRODUCTION

Thank you for purchasing a Holt Industrial HGS50F Stump Grinder.

You must read, understand, and follow all instructions in this manual before operating, adjusting or servicing this machine.

If you do not understand any part of this manual or you are unsure about any aspect of this machine, contact Holt Industrial. Information provided in this manual was current as of the issue date.

Information furnished in this manual does not include all of the details of design, production, or variations of equipment. It does not cover all the possible contingencies, which may arise during operation or maintenance.

Should special issues arise, or further information be desired, contact your dealer.

This manual covers the Holt Industrial HGS50F Stump Grinder and is provided to assist in the safe operation and maintenance of the equipment.

Equipment modifications from original design and specifications without written permission are strictly prohibited.

Modifications may compromise safe operation of machine, subject users to serious injury or death and may void any remaining warranty.

This operator's manual does not replace, nor does its use discharge the operator from observing all safety codes or operating limitations as well as any applicable federal, state, provincial or local regulations.

There are three different types of labeling on this machine: safety, informative and product labels.

**Safety Labels** are pictorial with a yellow background and generally 2 panel. Top panel indicates the potential hazard and the bottom panel indicates how to avoid the hazard.

**Informative Labels** are generally pictorial, have a white background and can vary to the number of panels. The label will illustrate the function of a feature and is accompanied by detailed instructions in the owners manual, with the label illustrated along side.

**Product Labels** contain product information such as model number or serial number.

## 2. WARRANTY

This product is warranted to be free of defects in materials and workmanship under normal use and service, for a period of one year from the date of purchase, when operated and maintained in accordance with the Operating and Maintenance Instructions supplied with this unit. This warranty does not cover misuse or negligence.

Under no circumstances will the manufacturer be liable for any consequential damage or expense of any kind, including loss of profits.

The manufacturer is not liable for the maintenance of the product. This warranty is extended only to the original purchaser. Warranty is void if repairs are attempted by anyone other than an Authorized Service Center.

If a difficulty develops with the product, you should contact your nearest Authorized Repair Center, or distributor. Only these locations are authorized to make repairs to the product or affect the replacement of defective parts, which will be done at no charge within a reasonable time after the receipt of the product. Units or parts should be returned at the customer's expense to the nearest repair location or Authorized Service Center. Pack in a strong container and pad tightly to avoid damage. Damage in-transit is not covered by warranty. Include original purchase receipt with any claim (keeping a copy for your files).

The Manufacturer's Liability is limited to repair of the product and/or replacement of parts and is given to the purchaser in lieu of all other remedies including incidental and consequential charges. There are no warranties, expressed or implied other than those specified herein. For the nearest Authorized Service Center, call the manufacturer.

Please note the following details and file this information in an appropriate place.

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

S/N: \_\_\_\_\_

Date of Purchase: \_\_\_\_\_

Owner's Name \_\_\_\_\_

### 3. PREDELIVERY

This predelivery procedure must be performed and signed off by a qualified Holt Industrial representative and Holt Industrial trained owner, maintenance supervisor or operator at the time of delivery and before going into service.

\_\_\_\_\_  
Owner / Owner Representative

\_\_\_\_\_  
Address

\_\_\_\_\_  
City, State/Province, Postal Code

\_\_\_\_\_  
Phone Number

\_\_\_\_\_  
Holt Industrial Representative

\_\_\_\_\_  
Phone Number

\_\_\_\_\_  
VIN Number

\_\_\_\_\_  
Delivery Date

The owner or owner representative is thoroughly trained on the Holt Industrial HGS50F Stump Grinder. Predelivery inspection has been performed. Safe operation, care, adjustments, warranty policy and manuals for the HGS50F Stump Grinder. have been reviewed.

\_\_\_\_\_  
Owner / Owner Representative Signature

\_\_\_\_\_  
Date

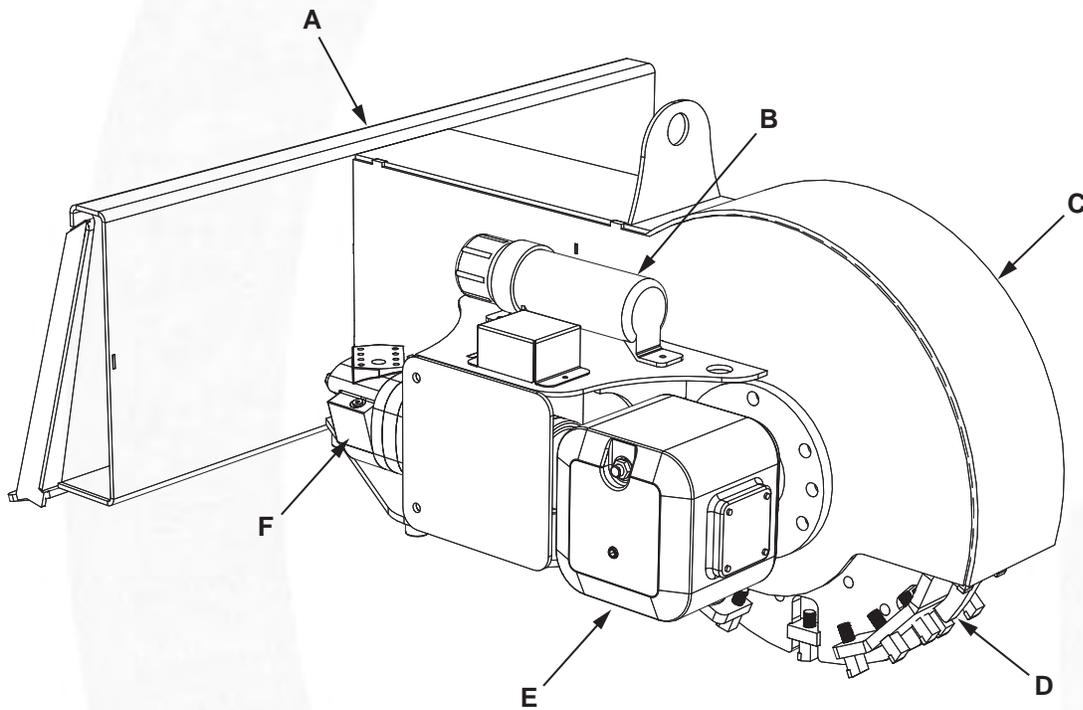
\_\_\_\_\_  
Holt Industrial Representative Signature

\_\_\_\_\_  
Date

X	Predelivery Inspection
	Verify rotor turns freely.
	Verify all fasteners are tight.
	Verify all decals are in installed.
	Operate all functions to verify operation.
	Check hoses and fittings for leaks.

## 4. COMPONENTS

- A. Quick Attach
- B. Operators Manual Tube
- C. Debris Guard
- D. Rotor
- E. Rotor Gearbox
- F. Hydraulic Motor



## 5. SAFETY

### 5.1 Safety Alert Symbol And Signal Words

You must read, understand and follow the instructions given by the operating unit manufacturers, as well as the instructions in this manual.

The safety information in this manual is denoted by the safety alert symbol:



This symbol means **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**

The level of risk is indicated by the following signal words:

#### **DANGER**

**DANGER** - Indicates a hazardous situation, which, if not avoided, **WILL** result in death or serious injury.

#### **WARNING**

**WARNING** - Indicates a hazardous situation, which, if not avoided, **COULD** result in death or serious injury.

#### **CAUTION**

**CAUTION** - Indicates a hazardous situation, which, if not avoided, could result in minor or moderate injury.

#### **NOTICE**

**NOTICE** - Indicates a situation that could result in damage to the equipment or other property.

### 5.2 Operational Hazards

#### **California Proposition 65 Warning**

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer, birth defects and other reproductive harm. Wash hands after handling.

#### **WARNING**

**Prevent serious injury or death.**

**Read and understand this manual before operating stump grinder.**

**Always stop engine and allow rotor to stop before approaching rotor.**

**Never allow anyone near stump grinder during operation.**

**Travel at a safe speed.**

#### **WARNING**

**Prevent serious injury or death from moving parts.**

**Moving parts can crush and dismember. Do not operate without guards and shields in place.**

**Lockout engine controls before adjusting or performing maintenance.**

#### **WARNING**

**Safely operate equipment.**

**Allow only properly trained and qualified personnel to operate this equipment.**

## **WARNING**

**Use stump grinder only for the designed applications.**

**Any other use may result in personal injury, damage to equipment and may void the warranty.**

Carefully read all safety messages in this manual and on equipment safety signs. Keep safety signs in good condition and replace missing or damaged safety signs.

New equipment components and repair parts must include the current safety decal.

Learn how to properly operate equipment. NEVER operate or work around this equipment without proper instruction, while fatigued or under the influence of alcohol, prescription or non-prescription medication or if feeling ill.

Keep your equipment in proper working condition. Know the regulations and laws that apply to you and your industry. This manual is not to replace any regulations or laws. Additional information may be found at:

[www.asae.org](http://www.asae.org) or [www.osha.gov](http://www.osha.gov).

If you do not understand any part of this manual, contact your dealer.

### **5.2.1 Replace Safety Signs**

Replace missing or damaged safety signs.

Safety sign location are identified in Section 5.5 of this manual.

Replacement safety signs are available from your dealer.

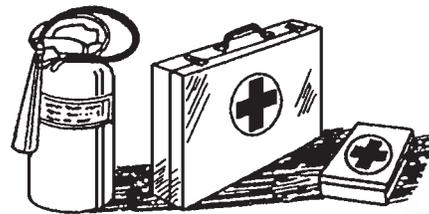
### **5.2.2 Prepare For Emergencies**

Be prepared in case of emergencies.

Keep a fire extinguisher and first aid kit close to the machine.

Keep emergency phone numbers close to your phone.

Know your address so emergency services can locate you if an emergency arises.



### **5.2.3 Do Not Allow Riders**

NEVER lift or carry anyone on stump grinder.

NEVER use stump grinder as a work platform.

NEVER allow passengers on stump grinder.

### **5.2.4 Lower Operating Speed**

Keep rotor low and move at slow speeds on rough or uneven terrain.

### 5.2.5 Prevent Rollover

The equipment may rollover, resulting in death or serious injury. To help prevent rollover:

- Travel at a slow speed.
- Avoid sharp turns & sudden movement on slopes.
- Travel with rotor close to the ground.
- Avoid holes, ditches and other obstructions which may cause equipment to rollover.
- Use caution when operating on slopes and do not operate on excessively steep slopes.

### 5.2.6 Avoid Power Lines And Underground Utilities

#### **WARNING**

**Prevent electrocution.**

**Death or serious injury can result if equipment comes near or contacts power lines.**

**Electrocution can occur without direct contact.**

Have local utilities locate and mark under ground wires, cables, pipelines and other hazards before grinding.

### 5.2.7 Avoid Load Noise

#### **WARNING**

**Prolonged exposure to loud noise can cause impairment or loss of hearing.**

**Wear a suitable hearing protective device.**

### 5.2.8 Raised Rotor

#### **WARNING**

**Crushing hazard.**

**Raised, unsupported rotor can fall, resulting in death or serious injury.**

**Never enter the area under a raised rotor.**

A raised rotor can lower unexpectedly, resulting in death or serious injury.

**NEVER** enter area under a raised rotor.

Lower rotor to ground, engage parking brake, shut off engine and lockout engine controls before servicing.

### 5.2.9 Avoid High Pressure Fluids

#### **WARNING**

**Pressurized fluids can penetrate the skin.**

**Hydraulic hoses can fail from age, damage and exposure.**

**Use body and face protection while searching for leaks. A tiny, almost invisible leak can penetrate the skin, thereby requiring immediate medical attention.**

**Use wood or cardboard to detect hydraulic leaks, never use your hands.**

Escaping fluid under pressure can penetrate the skin causing serious injury.

Prevent the hazard by relieving pressure before connecting or disconnecting hydraulic lines. Verify all connections are tight before applying pressure.

Search for leaks with a piece of cardboard or wood.

Protect hands and body from high pressure fluids. If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or serious infection may result.

Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.

### 5.3 Maintenance Hazards

Before servicing, park machine on a firm and level surface, set parking brake, chock wheels, and place a “Do Not Operate” tag on engine controls. Read and understand this manual. If you do not understand any part of this manual, contact your dealer.

Always wear face and/or eye protection, safety shoes, and other protective equipment appropriate for the job.

Always use Holt Industrial replacement parts.

#### **WARNING**

**Moving parts can crush and cut.**

**Keep clear of moving components.**

#### **WARNING**

**Crushing and severing hazard.**

**Before performing inspections, service or maintenance:**

- **Park machine on firm, level surface.**
- **Engage parking brake.**
- **Turn engine off and lockout engine controls.**

#### **WARNING**

**Entanglement hazard.**

**Keep clear of moving components.**

#### **WARNING**

**Burn hazard.**

**Hot and high pressure hydraulic oil.**

**Allow oil to cool before servicing.**

#### **WARNING**

**Prevent serious injury or death.**

**Wear proper protective equipment appropriate for the job.**

### 5.4 Hazards From Modifying Equipment

Do not make any alterations to the stump grinder. Altering may cause equipment to be unsafe and may void the manufacturers' warranty.

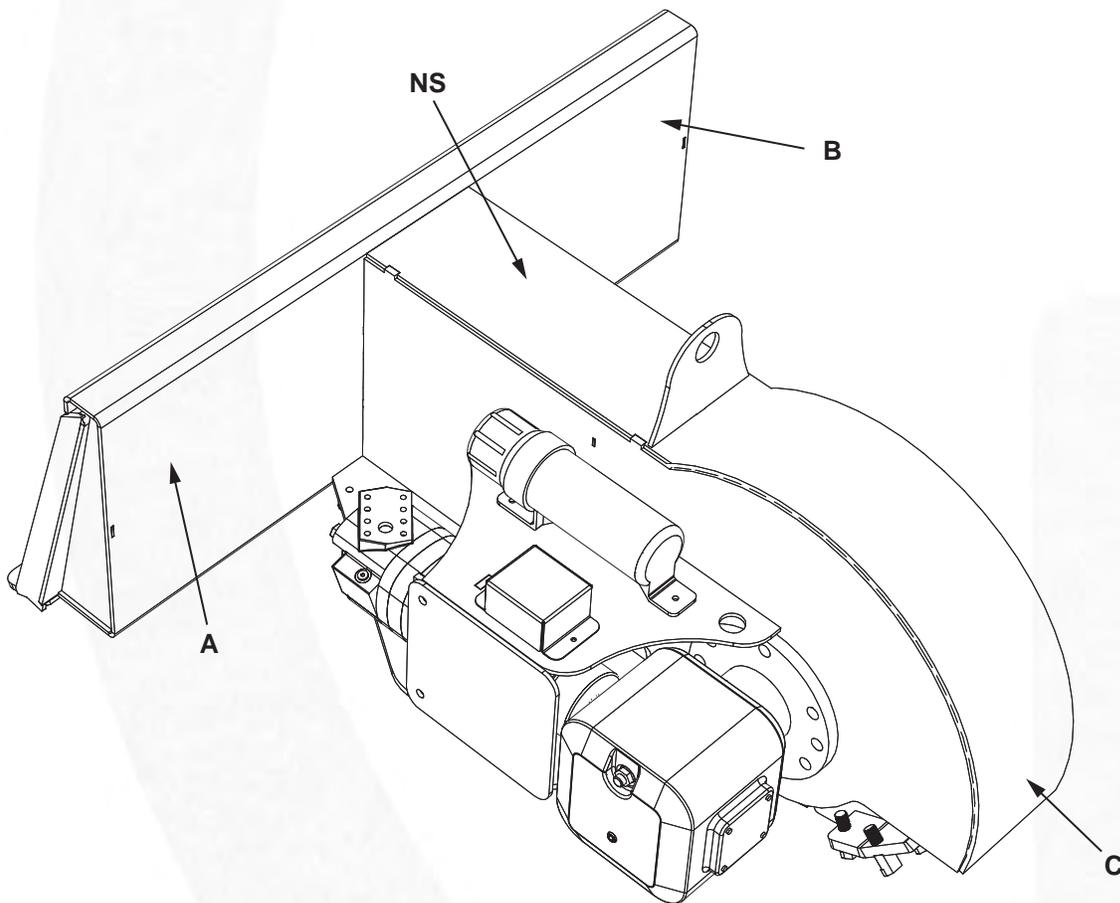


## 5.5 Safety Warning Labels

### WARNING

To protect you and others against death or serious injury, all labels shown must be on stump grinder and must be legible.

If any of these labels are missing or cannot be read, contact your dealer for replacement labels.

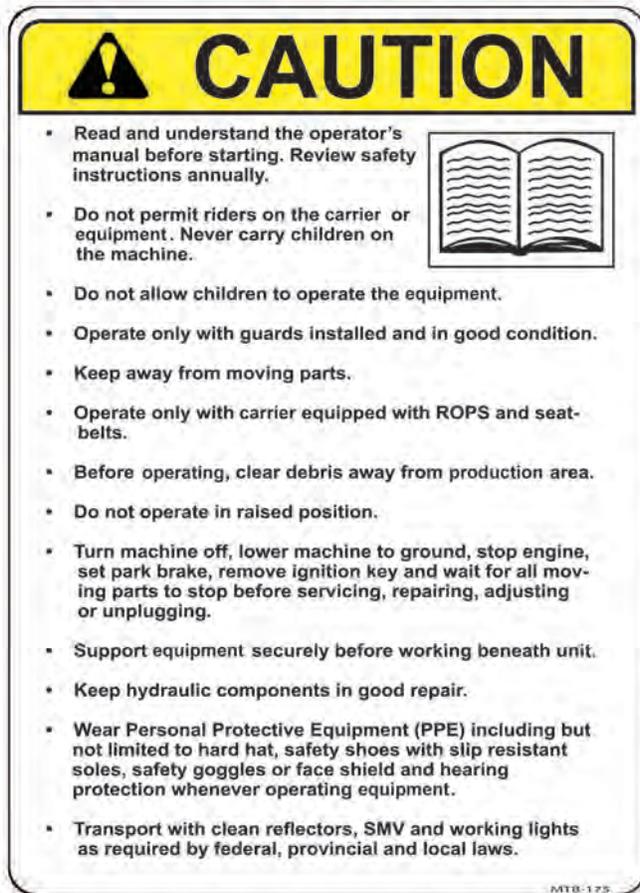


NS - Non-Slip Strip

Decal A: MTB-182



Decal B: MTB-175



Decal C: MTB-108





## 6. OPERATION

-  Keep bystanders, livestock, pets, etc away from work area.
-  Always wear protective equipment appropriate for the job.
-  Do not operate, work on or around this machine while under the influence of alcohol, drugs or if feeling ill.
-  Keep clear of moving machinery at all times.
-  Stop stump grinder engine before leaving operators area.
-  It is your responsibility to operate this equipment safely. You must be familiar with the equipment and all safety practices before use.
-  Do not allow untrained or unqualified people to operate this equipment.

### 6.1 Attach To Skid Steer

#### **WARNING**

**Prevent serious injury or death.**

**Never position yourself or allow others between skid steer and stump grinder.**

**Only experienced and properly trained operator's should operate the skid steer and stump grinder.**

1. Read and follow all safety instructions.
2. Attach stump grinder to skid steer. See skid steer Operator's Manual.
3. Verify pins are secure in the correct position.
4. Connect hydraulic hoses. Verify hydraulic hoses are clear of pinch areas and moving parts.
5. Move to a clear open area to test functions.

### 6.2 Pre-Operation Check List

Perform the following checks prior to operation.

- Review and understand this manual.
- Verify safety decals are installed and legible. Replace if damaged or missing.
- Verify all hardware is tight.
- Inspect hoses and fittings for wear, damage and leaks. Replace damaged or leaking hoses before use.
- Verify that local utilities have marked all underground utilities.

### 6.3 Carbide Teeth Break In

New carbide teeth are razor sharp and can chip and shatter easily when they hit hard objects. Once the razor sharpness has worn away, tips do not chip as easily. Observing these precautions will extend the life of the carbide teeth and reduce operating expenses.

### 6.4 Operation

#### **WARNING**

**Wear an approved respirator (N95 Type as a minimum).**

**Follow local, state and federal regulations.**

**The health effects from exposure to wood dust are due to chemicals in the wood or chemical substances in the wood created by bacteria, fungi, or molds.**

### **WARNING**

**Prevent serious injury or death.**

**Keep clear of moving machinery.**

### **WARNING**

**Never operate stump grinder when other people are in the vicinity. Debris can be thrown several feet from cutting area. Keep all shields in place.**

#### 6.4.1 First Time User Tips

- Shut off engine and remove key.
- Stand to the side of the stump grinder and observe the center point on the bottom of the cutting wheel. Now sit in operators seat and observe the center point again. This point will appear different depending on where you are positioned. This can be very deceiving! Familiarize yourself with the view of the stump grinder from the operator seat.
- The cutting wheel is shielded from view when sitting on the tractor seat so it is difficult to accurately determine the progress. The ability to judge the positioning improves with practice.

#### 6.4.2 Grinding A Stump

### **WARNING**

**Prevent serious injury or death.**

**Keep clear of moving machinery.**

1. Start engine. See OEM engine manual for safety, prestart and operational information.
2. If the stump is on a grade, position stump grinder lower on the grade with the cutting wheel on the stump grinder higher up the grade.
3. Position stump grinder up to the front edge of the stump.
4. Check position of the stump grinder to the stump. Verify stump grinder is positioned at edge of stump.
5. Verify rotor is close to, but not touching stump.
6. Set engine speed at high idle and engage hydraulic flow.
7. Slowly lower stump grinder and move forward.
8. When ground level is reached, continue to grind up to 12 in. (305 mm) below the surface to the bottom of the stump where the roots branch out.
9. Continue grinding as needed until the entire stump has been removed to below ground level.
10. Follow the roots, taking as much of the larger surface roots as possible. If these are not removed they can, over time, protrude from the ground in areas where there is a heavy freeze/thaw cycle.
11. Move stump grinder away from stump to a flat surface.
12. Set engine speed at low idle.
13. Stop skid steer engine.

# 7. ROUTINE MAINTENANCE

## 7.1 Maintenance Intervals

ITEM	DAILY BEFORE USE	EVERY 4 HOURS	EVERY 200 HOURS
Check hoses and fittings for leaks.	•		
Check cutting teeth for wear. Replace cutting teeth as necessary.		•	
Change rotor gearbox oil.			•

### **WARNING**

**Moving parts can crush and cut.**

**Keep clear of moving components.**

**Lockout operating engine controls before performing inspections or maintenance.**

### **WARNING**

**Prevent serious injury or death.**

**Wear proper protective equipment appropriate for the job.**

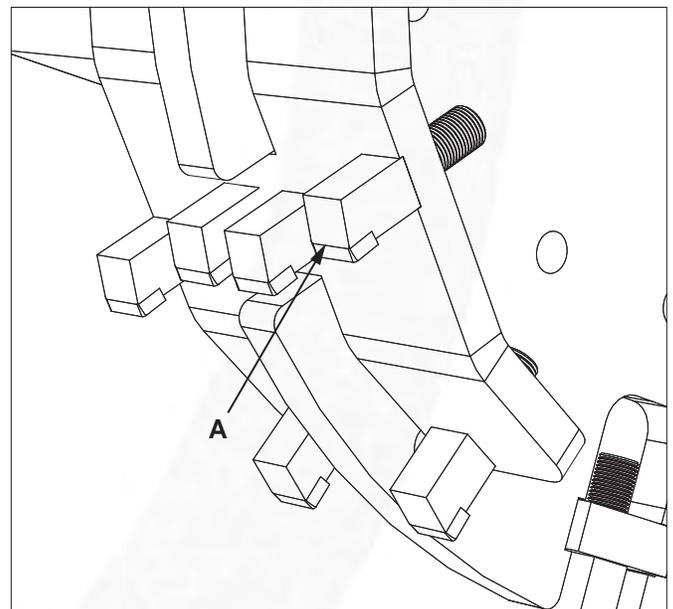
## 7.2 Inspections

Check hydraulic hoses and fittings daily for leaks. Replace worn or damaged parts.

Inspect the unit for any damage. Repair or replace parts as needed.

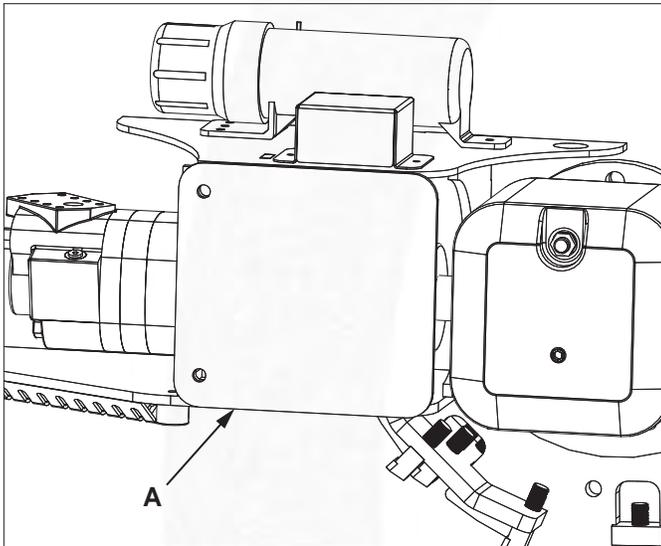
## 7.3 Replace Cutting Teeth

1. Park stump grinder on a level surface.
2. Lower rotor to the ground.
3. Shut off engine and remove key.
4. Inspect cutting teeth (A) for damage and wear. Replace individual teeth as needed.
5. Remove locknut and tooth (A). Install new tooth with hardened cutting edge facing same direction as other teeth.
6. Install and tighten locknut to 150 lb/ft (204 Nm) of torque.

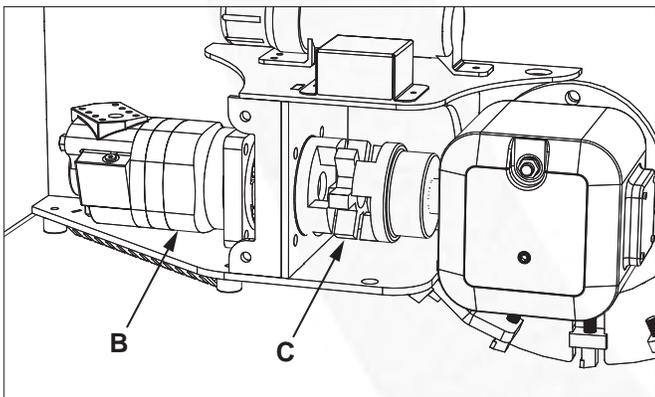


## 7.4 Replace Spider

1. Park stump grinder on a level surface.
2. Lower rotor to the ground.
3. Shut off engine and remove key.
4. Remove cover (A).

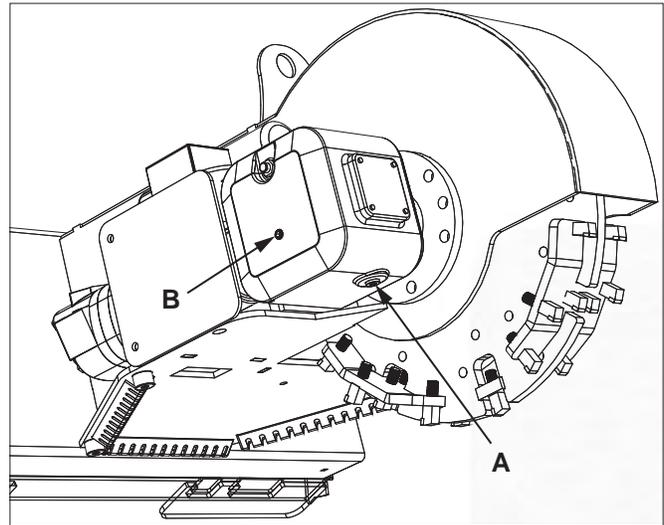


5. Remove hydraulic motor (B) mounting hardware and move motor rearward.
6. Remove and replace spider (C).
7. Align spider, collars and move motor forward. Install motor mounting hardware.
8. Install cover (A).



## 7.5 Change Gearbox Oil

1. Park tractor and grinder on a level surface.
2. Place wood block under cutting wheel and lower cutting wheel to wood block.
3. Shut off engine and remove key.
4. Remove drain plug (A).
5. Drain oil and install plug.
6. Remove fill/check plug (B).
7. Add synthetic 90W gear oil until oil comes out of hole.
8. Replace fill/check plug.
9. Dispose of oil in an environmentally safe manner.



## 8. TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	SOLUTION
Rotor does not spin.	Rotor jammed.	Lock out power and clear debris from rotor.
	Low hydraulic oil level.	Check hydraulic oil level. Add if necessary.
	Low hydraulic oil flow.	Have a qualified hydraulic technician check hydraulic oil flow.
Rotor rotates slow or sluggish.	Low hydraulic oil level.	Check hydraulic oil level. Add if necessary.
	Oil hydraulic filter plugged.	Replace hydraulic oil filter.
	Relief valve not set properly.	Have a qualified hydraulic technician set relief valve.
	Low hydraulic oil flow.	Have a qualified hydraulic technician check hydraulic oil flow.
Excessive vibration.	Insufficient hydraulic pressure.	Check hydraulic oil level. Add as needed.
	Debris lodged in rotor.	Remove debris.

**Holt Industrial**  
4575 Powell Rd.,  
Wallenstein, Ontario Canada  
N0B 2S0

Phone - 844.444.4658

[holtindustrial.com](http://holtindustrial.com)