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AGT Industrial

# Product manuals

Skid Steer Stump Grinder

Model:AGT-SSSTG200

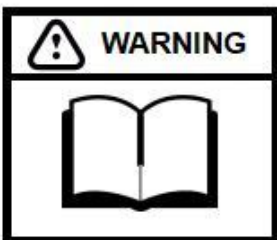
Ver.1.1.4



# PRODUCT MANUAL

## Skid Steer Stump Grinder

Model:AGT-SSSTG200



- ◆ Please read the product manual completely before assembly
- ◆ Check against the parts list to make sure all parts are received
- ◆ Wear proper safety goggles or other protective gears while in assembly

Missing parts or questions on assembly?  
Please contact [sales@agrotkindustrial.com](mailto:sales@agrotkindustrial.com)

<https://www.agrotkindustrial.com/>

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# Product introduction



1. Grind stumps down below ground level with ease.
2. The hydraulic flow requirement is 18-25 GPM.
3. Cutting wheel is controlled from inside the cab.
4. Cuts 19-inches below ground level.
5. Reversible teeth, can be rotated 3 times before needing to be replaced; forged steel with carbide face.
6. It features an external 5 button controller for vertical angles, horizontal angles, and emergency stop.
7. Includes 14 pin adapter for electrical connection - can be removed if hooked directly to the battery.
8. Includes flat-faced couplers.
9. Includes a kickstand to keep the implement level while unhitched.

# Operator

Congratulations on owning this Skid Steer Stump Grinder! Your Skid Steer Stump Grinder are carefully designed and manufactured to provide you with years of reliable service.

Your Skid Steer Stump Grinder will need some minor maintenance to keep it in excellent working condition.

Please follow all safety precautions and maintenance procedures described in this manual.

Please read and understand the instructions in this manual carefully before operation.

Please refer to the "Safety Labels" section for all instructions noted above.

No one is allowed to operate his equipment who has not fully read and understood this manual and has not been trained in safe deposit box operations.

Remember to use only parts replaced by the manufacturer.

Replacement parts may not meet the standards required for safe and reliable operation.

# Safety precautions

## BEFORE OPERATION

1. The operator must read the operation manual carefully before installation, operation or maintenance. Improper operation will cause the machine damaged or the operator dead.
2. Read all the safe signs and safe declarations. Obey all the professional safe terms, local laws or the professional directions.
3. Familiar with the duty Skid Steer Vibratory Roller Attachment about functions, specs and operation. Replace the to-be-damaged parts in time. Make sure all the hydraulic installations and couplings connect firmly, and all the safe signs stick on the suitable positions clearly.

ALWAYS watch for overhead power lines.

NEVER operate a mechanical device when a bystander is within 300 feet of your work area. Flying debris can cause serious injury or even death.

- NEVER position your body or limbs under an unsupported cutter deck.
- DO NOT allow this machine to contact buildings, utilities, large rocks or tree stumps or you may lose control of the skid steer loader.
- NEVER use drugs or alcoholic beverages while operating or servicing this machine.
- ALWAYS operate this attachment during daylight or well-lit areas.
- To prevent the skid steer loader and implement from rolling forward, stop the engine and set the parking brake when exiting the skid steer loader.
- Inspect implement for missing hardware prior to using this machine.
- DO NOT allow children to play on or around this equipment at any time. Store this implement in an area not frequented by children.
- ALWAYS wear the proper personal protection equipment while operating or servicing this machine. NEVER operate or service this machine with bare feet, sandals, or other light footwear.
- ALWAYS wear work gloves when handling cutter blades as they are often very sharp.
- ALWAYS use eye protection while operating or servicing this machine.
- DO NOT speed! Keep your driving speed between 2 and 5 mph.



Wear appropriate safety glasses, goggles or face masks Control Forestry Skid Steer Stump Grinder work, or any operation caused by dust, flying Debris, or any other hazardous material.

# Technical parameters

Model:	SSSTG200
Length:	78"
Width:	54"
Height:	28"
Weight:	800.27lbs
Above Ground Grinding Height:	21.5"
Below Ground Grinding Height:	19"
Cutting Teeth:	16
Cutting Wheel Diameter:	24"
Cutting Wheel Thickness:	3/4"
Cutting Wheel Speed:	1100-1350RPM
Hydraulic Flow:	14-25GPM
Hydraulic Pressure Required:	2320-3000 PSI

## Work environment:

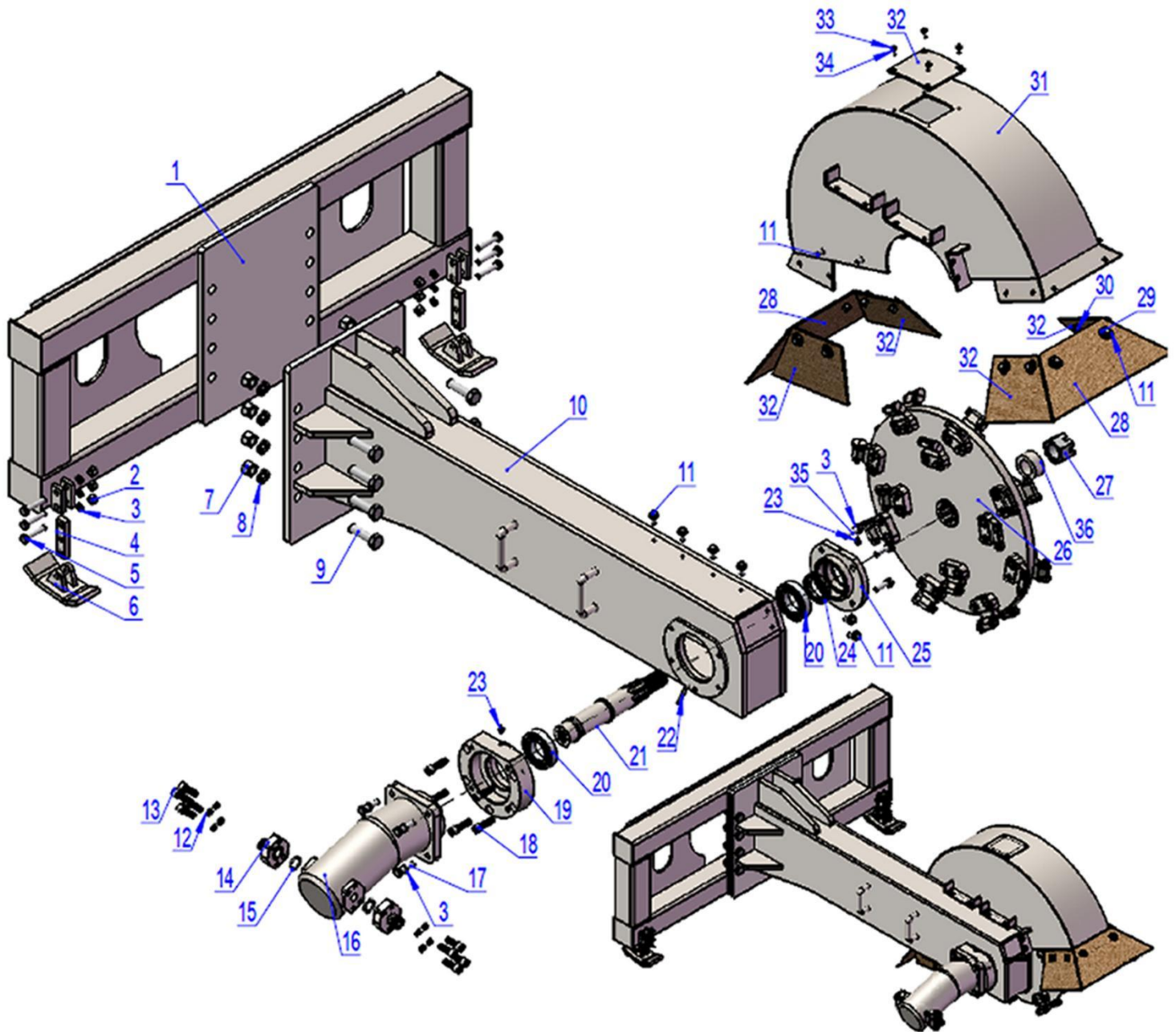
Temperature: - 20 ~ 50 °C

Height: 100 meters or less

Relative humidity : ≤85%



# Technical parameters





S/N	PART DESCRIPTION	QTYS	NOTE
1	Slip Frame Welding	1	
2	Hexagonal Nut (M12)	6	
3	Spring Washer (φ12)	14	
4	Connector	2	
5	Hexagon Bolt(M12x60s)	6	
6	The Pedal Welded	2	
7	Hexagon Nut (M20)	8	
8	Spring Washer (φ20)	8	
9	Hexagon Bolt (M20x70)	8	
10	Elastic Washer	8	
11	Flange Bolt (M10x20)	20	
12	Spring Washer (φ10)	8	
13	Soket Head Cap Screw (M12x35)	8	
14	Connecting Base	2	
15	O-Ring	2	
16	Piston Motor	1	
17	Hexagon Bolt (M12x45)	4	
18	Soket Head Cap Screw (M12x45)	5	
19	Bearing Support-Right	1	
20	Deep Groove Ball Bearing6210	2	
21	Spline Shaft	1	
22	Cotter Pin	1	
23	Grease Filling Nozzle (M10)	2	
24	Framework Oil Seal	1	
25	Bearing Support-Left	1	
26	Knife Dish Assembly	1	
27	Hexagon Slotted Nut (M36x4)	1	
28	Rubber Plate	2	
29	Gasket (M10)	12	
30	Hexagon Nut (M10)	12	
31	Housings Welded	1	
32	Rubber Plate	4	
33	Cover plate	1	
34	Hexagon Bolt (M6x16)	5	
35	Flat Washer (M6)	4	
36	Hexagon Bolt (M12x40)	4	
37	Gasket	1	

# Installation

## Unpack and check

Check for missing or damaged components according to the packing list. If you have any questions, please contact the supplier. List of details As the table above:

## Machine installation

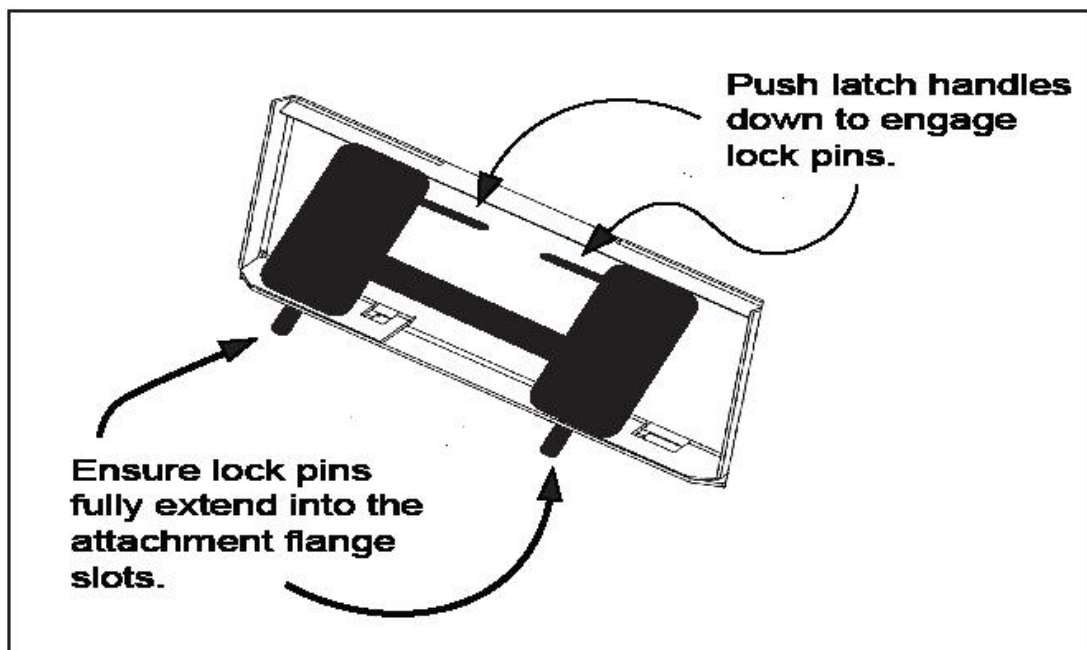
Equipment must be installed on a solid concrete floor or similar. If the ground is not firm, it will not be able to connect to the loader. There should be a space around the device for easy operation.

## Connecting Vibratory Roller Attachment

Consult your skid steer operator's manual for specific instructions on how to connect your Forestry Disc Mulcher to your skid steer loader.

## General Attachment Method

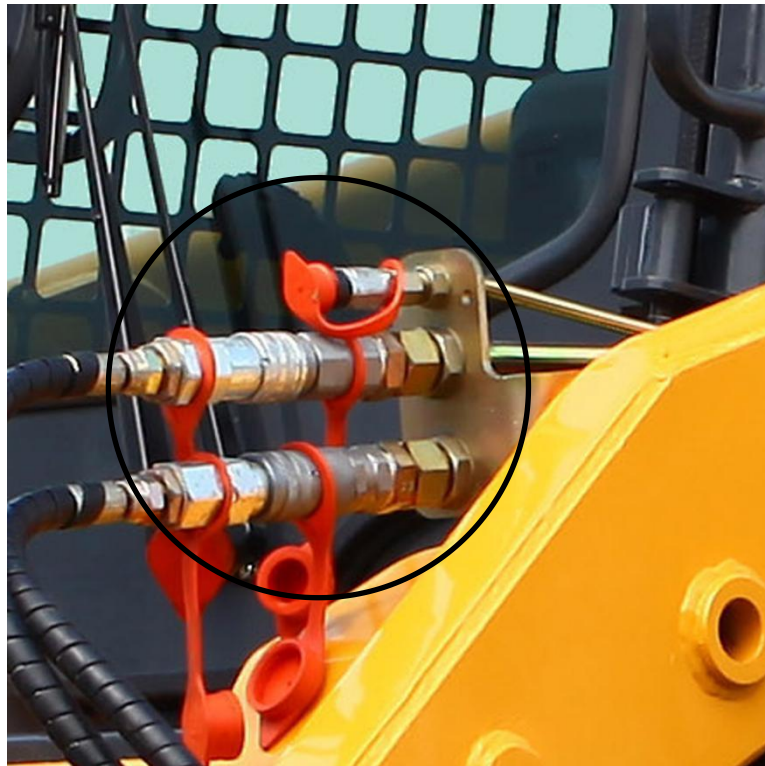
1. Make sure the hydraulic lines are clear from the front side of the Vibratory Roller Attachment attachment plate and that the locking pins on the skid steer mounting plate are retracted.
2. Drive forward and place top of skid steer mounting plate under the attachment mounting flange. See Figure below.
3. Slowly raise and tilt back the skid steer mounting plate until the Vibratory Roller Attachment attachment plate rests flat against the skid steer mounting plate.
4. Activate your skid steer's lever lock switch to engage and lock the pins into the flange slots of the brush cutter's attachment plate. If your skid steer does not have this switch, push the latch handles down until you can see the lock pins extend into the attachment flange.
5. Connect the attachment hydraulic hoses and the case drain hose (SBCNS model only) to the auxiliary supply couplers located on your skid steer loader lift arm.



Skid Steer Mounting Plate to Attachment Mounting Flange

# Installation

Note: this drawing does not represent the appearance of the equipment  
For actual purchase, this figure is only for installation location reference.



Oil pipe connection: Skid Steer Vibratory Roller Attachment is equipped with 3 oil pipes, which are return oil pipe, inlet oil pipe and outlet oil pipe. Connect the tubing to the loader tubing connection.

# Installation

## Safety Instruction

- (1) Before the installation, please be sure to read the manual
- (2) Before using this equipment it should to know its production or working capacity, its dimensions and operation steps.
- (3) Pay attention to the flying objects caused by the operation of this equipment, at the same time operator should be installed with the glasses, helmet and mask.
- (4) Under high pressure, hydraulic oil's leak will cause harm or even death to the staff, operators should as far as possible away from leaking oil pipeline .
- (5) Don't modify equipment, it can reduce machine's performance, Security and reliability.
- (6) Equipment working environment requirements; Flat ground, open vision.
- (7) Make sure this is no pollution in steps and armrest of the equipment.
- (8) When operating, be sure that this is nobody around the equipment;
- (9) Operator do not leave the machine when it working.
- (10) Isolating working area when working, avoid people and animals close to the machine and be hurt by cutting pieces.
- (11) When mulcher working for big trees, be careful of logs dumping backwards to the cab where operator working in.
- (12) Do not run this machine on steep hills, lest cause tilting.
- (13) Do not drunk when operating this machine .
- (14) Before operator leave the skid steer loader, make sure to put mulcher attachment fell to the ground, then close the skid steer engine and pull out its key.
- (15) Check all fasteners, make sure they has no loose phenomenon. Change the damage parts in time, and make sure all warning signs clear and clean, change them if damage happens.
- (16) Before every time usage, it should check whether the bolt fastening everywhere.

# Handling safety

## Stump Grinder Operation

To avoid serious injury or death:

- Clear area of all bystanders before turning on hydraulics to the grinder.
- Keep all bystanders away while grinder is operating.
- Turning on hydraulics powers the cutting wheel and hydraulic cylinders.
- Anyone close by can become pinched, crushed, and/or entangled in the grinder while it is operating causing serious injury or death.



To avoid serious injury or death:

- Clear all debris from cutting area before operating unit. Keep all bystanders at a safe distance away from product being discharged. Wood chips and debris can discharge at high speeds causing serious injury or death.
- Never make contact with underground utilities such as electrical power lines, gas lines, phone lines, etc. They can cause serious injury or death from electrocution, explosion, or fire. Always call 811 (USA) before digging so that they can mark the location of underground services in the area.

1. Be sure to read and understand all safety alerts
2. Check for overhead and below ground obstructions before grinding stump.
3. If attachment is to be operated in reverse, make sure visibility to the rear is appropriate for the attachment.
4. Move skid steer forward until cutting wheel is located on far side of stump as shown.
5. Lower skid steer hitch down until skid shoes are firmly planted on the ground. If available, set skid steer park brake.
6. Rotate top of skid steer hitch plate forward or rearward until cutting teeth are just above the stump. Hydraulics to rotation start cutting wheel rotation.
7. Slightly extend to lower carbide teeth enough to make a cut into the stump. Slowly retract articulation cylinder to make a cross cut across top of stump.
8. Once cutting wheel has made a full swing across top and start back across the stump.
9. Continue swinging cutting wheel back and forth across top of stump and extending tilt cylinder at start of each new pass until depth of cut is around 4" deep in the stump.
10. Raise loader arms up several inches, and back skid steer up to a new location to continue removing chips from the stump.
11. Repeat steps 7 to 10 until top of stump has been completely removed to the 4" (10.2 cm) depth
12. Raise loader arms up several inches and drive forward to reposition cutting teeth just above far side of remaining stump and to the right side.
13. Repeat steps 7-12 until the stump has been removed approximately 8" (20.3 cm) below ground .



**IMPORTANT:** Do not backup or move forward while Stump Grinder is removing wood chips. Doing so can cause vibration and may damage hydraulic motor and other components.

**IMPORTANT:** Make sure skid shoes are firmly planted on the ground and if available, park brake is set before operating Stump Grinder. This will help prevent skid steer movement, minimize vibration, and help protect against structural damage.

**NOTE:** Rate and depth of cut is determined by sharpness of rotary teeth, density of wood, and condition of wood.

# Handling safety

## Maintenance Overview

The maintenance procedures described in this manual should only be carried out by qualified mechanics who have been trained to repair this machine.

Some procedures require special tools and skills to complete. **DO NOT** attempt to repair or perform service work on this machine unless you have the skills and tools to do so. Contact your local dealer for maintenance and repair services.

## NOTICE

Improper maintenance or modifications to the design or performance of this machine will void the warranty. **ONLY** use genuine SPARTAN EQUIPMENT replacement parts on this machine.

## Safety Instructions

- Obey the following safety instructions when servicing or repairing this machine.
  
- Wear proper Personal Protective Equipment (PPE) while working on this machine, which may include safety glasses, hard hats, steel toe boots, gloves, etc.
  
- Wear a welding helmet when welding to protect your eyes, face and neck from flash burn, ultra-violet radiation and heat.
  
- Ensure all jack stands, lifts and hoists are in good working condition and have the rated load capacity to support the load.
  
- If servicing is performed while the Vibratory Roller Attachment is attached to the skid steer, turn engine off, set parking brake and chock wheels to prevent skid steer from moving.
  
- Only perform service work in a well-lit area.
  
- Allow the machine to cool down before servicing this machine. Hot oils can burn your skin.
  
- **NEVER** work under a mechanical device without support.

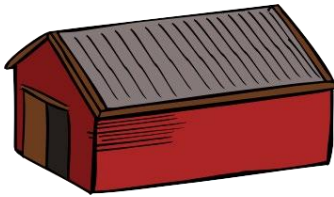
# Handling safety

## Storage Tips

To get years of quality use out of your Skid Steer Vibratory Roller Attachment, follow these storage tips:



Ensure Vibratory Roller Attachment is free of debris, dirt, grime and grease.



Store your Vibratory Roller Attachment in a dry shed or garage.



When storing your Vibratory Roller Attachment for the season, cover with a weather proof tarp to protect it from the elements.

## Blade Holder Removal

### WARNING

To avoid an accident that could result in death or serious injury, NEVER place your body under an unsupported cutter deck when servicing this Vibratory Roller Attachment. ONLY service the brush cutter on stable, even terrain. NEVER park on sloped terrain to avoid being struck and killed or seriously injured by the unexpected rolling or movement of the skid steer.

### NOTICE

ALWAYS release the hydraulic system pressure from the auxiliary hydraulic circuit prior to removing the blade holder.



# Handling safety

## OSHA 1910.266 Appendix A - First-aid Kits

Source:

[http://www.osha.gov/pls/oshaweb/owadisp.show\\_document?p\\_table=STANDARDS&p\\_id=9863](http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=9863).

Accessed: 16 Dec 09

The first-aid kit information below was directly obtained from OSHA regulations. Having a kit available at the job site is required by OSHA for logging operations and is highly recommended by AGT Manufacturing.

The following list sets out the minimum acceptable quantity and type of first aid supplies for the first aid kit required under paragraph (d)(2) of the Standard of Practice. The contents of the first-aid kit listed should be adequate for small work sites, consisting of approximately two to three employees. When larger operations or multiple operations are being conducted at the same location, additional first-aid kits should be provided at the work site or additional quantities of supplies should be included in the first-aid kits:

1. Gauze pads (at least 4 x 4 inches).
2. Two large gauze pads (at least 8 x 10 inches).
3. Box adhesive bandages (band-aids).
4. One package gauze roller bandage at least 2 inches wide.
5. Two triangular bandages.
6. Wound cleaning agent such as sealed moistened towelettes.
7. Scissors.
8. At least one blanket.
9. Tweezers.
10. Adhesive tape.
11. Latex gloves.
12. Equipment such as resuscitation bag, airway, or pocket mask.
13. Two elastic wraps.
14. Splint.
15. Directions for requesting emergency assistance.



# Handling safety

## Inspection Checklist

This checklist is to be completed prior to every use of the Skid Steer Vibratory Roller Attachment.

DO NOT use a Skid Steer Vibratory Roller Attachment that fails inspection until it has been repaired.

Check for damaged hoses or hydraulic leaks. See hydraulic safety precautions in this manual.

Grease all Imbrication points. See lubrication point diagram in this manual.

Dress with a grinder periodically.

Check for cracked welds.

Check for bent or damaged components.

Check for damaged cylinder pins.

Check for missing or loose fasteners (bolts, nuts, snap rings, etc.)

Inspector Name

Date

\* \* \* IMPORTANT \* \* \*

If you are using your Skid Steer Vibratory Roller Attachment as part of a commercial operation it is HIGHLY recommended that you keep a copy of all inspections performed on the machine and the Skid Steer Vibratory Roller Attachment. Also maintain records of repairs that are performed as a result of failed inspections. OSHA inspectors will likely ask for proof that you are taking steps to mitigate risks and to comply with OSHA regulations. Refer to [www.osha.gov](http://www.osha.gov) on the Internet and search for "1910.266" to display regulations specific to logging operations.

# Handling safety

## Safely Checking for Hydraulic Leaks

**WARNING:**

There is significant risk of injection from the high pressure spray at hydraulic leaks

- The tremendous energy used to operate the machine and attachments can be stored in the hydraulic system even when the machine engine is off.
- Very serious injuries from hydraulic fluid injection can seem insignificant at first. Often it can seem

like a pin prick or tingling, but later it may require amputation. **HIGH PRESSURE LEAKS ARE**

**OFTEN INVISIBLE.**

Hydraulic system injuries can include:

- Burns from hot fluid
- Injection of hydraulic fluid
- Trauma from energized components or flailing lines

DO	DO NOT
<p>Always Lock Out Tag Out machine controls before working on the machine or attachment.</p> <p>Always use the methods recommended by the manufacturer to block loader arms and other moving components to prevent accidental movement.</p> <p>Always use appropriate PPE (Personal Protective Equipment) when working on/around machinery.</p> <p>Take an approved safety course related to hydraulic systems. Local university extension programs and equipment dealers will offer training on hydraulic safety.</p>	<p>DO NOT use your hands, or other body parts, to inspect for hydraulic leaks.</p> <p>DO NOT position yourself in pinch points when the machine has not been properly blocked, locked out and tagged out.</p> <p>DO NOT "crack" a hydraulic fitting to release hydraulic pressure. Severe risk of injection.</p> <p>DO NOT tighten or loosen hydraulic components when the system is pressurized.</p> <p>DO NOT assume that the system is depressurized.</p>

# Limited Warranty

The goal of agrotkindustrial.( “AGT” ) warranty policy is to assure confidence, reduce downtime and minimize cost of ownership. Should you want to verify warranty, or should potential issues arise, please contact your authorized dealer or AGT’ s Customer Service Team at [service@agrotkindustrial.com](mailto:service@agrotkindustrial.com), +1 913-244-6269 and we will strive to resolve any issues in a timely manner.

AGT Attachments ( “AGT” ) offers a Limited Warranty on Shear, Grapple, and Puller Attachments delivered hereunder against faulty workmanship and use of defective materials for a period of twenty four (24) months from the date of shipment to the original purchaser from USA and/or USA Authorized Dealers. AGT offers a Limited Warranty on Saw Attachments against faulty design, material, and workmanship for normal use when properly maintained for a period of twelve (12) months from date of shipment. The Warranty for all products listed above and delivered hereunder to Rental users is for a period of six (6) months from the date of shipment to the original purchaser. Seller offers a Limited Warranty for miscellaneous parts and accessories such as cylinders, hoses, switches, valves and wiring delivered hereunder against faulty workmanship and use of defective materials for a period of three (3) months from the date of shipment. This warranty does not include, and there in hereby excludes, maintenance parts and consumables including but not limited to hydraulic fluid, oil, belts, teeth, blades, filters and other similar items.

AGT offers a Limited Warranty on Auger Attachments against faulty design, material, and workmanship for normal use when properly maintained.

Auger Gearboxes are warranted for a period of sixty (60) months from date of shipment, Auger Motors are warranted for twenty four (24) months from date of shipment. Auger Bits, Frames and Cradles are warranted for a period of twelve (12) months from date of shipment. Refer to the Product Manual for proper maintenance procedures. Spare, Replacement and After Warranty Parts including hoses and components are warranted for three (3) months. AGT Auger Teeth, Pilots, Adaptors and Extensions are manufactured with a patented design to interface with AGT Auger attachments extensions and adaptors. The use of attachments other than AGT Auger Teeth, Pilots, attachments, extensions and/or adaptors, will void all warranty on Auger Drive and Bits. The use of AGT adaptors on unapproved attachments is not sanctioned. A “home-made” or non-standard attachment outside the specifications for the machine will void the warranty.



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