



AGT
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AGT Industrial

Product manuals

Skid Steer Trencher Attachment

Model:AGT-ECSSCT72

Ver.1.1.4



PRODUCT MANUAL

Skid Steer Trencher Attachment

Model:AGT-ECSSCT72



- ◆ 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

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

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Product introduction



1. Manual or hydraulic side-shift to get up close to buildings.
2. Single Standard chains recommended for loose, damp soil.
3. Double Standard chains recommended for harder, drier soil, roughly twice the number of teeth.
4. Half Rock & Frost chains recommended for harder, frozen and rocky digging conditions.
5. Comes complete with trench cleaner arm, hoses and flat face.

Operator

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

Your Skid Steer Trencher Attachment 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 Trencher 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 Trencher Attachment work, or any operation caused by dust, flying Debris, or any other hazardous material.

Technical parameters

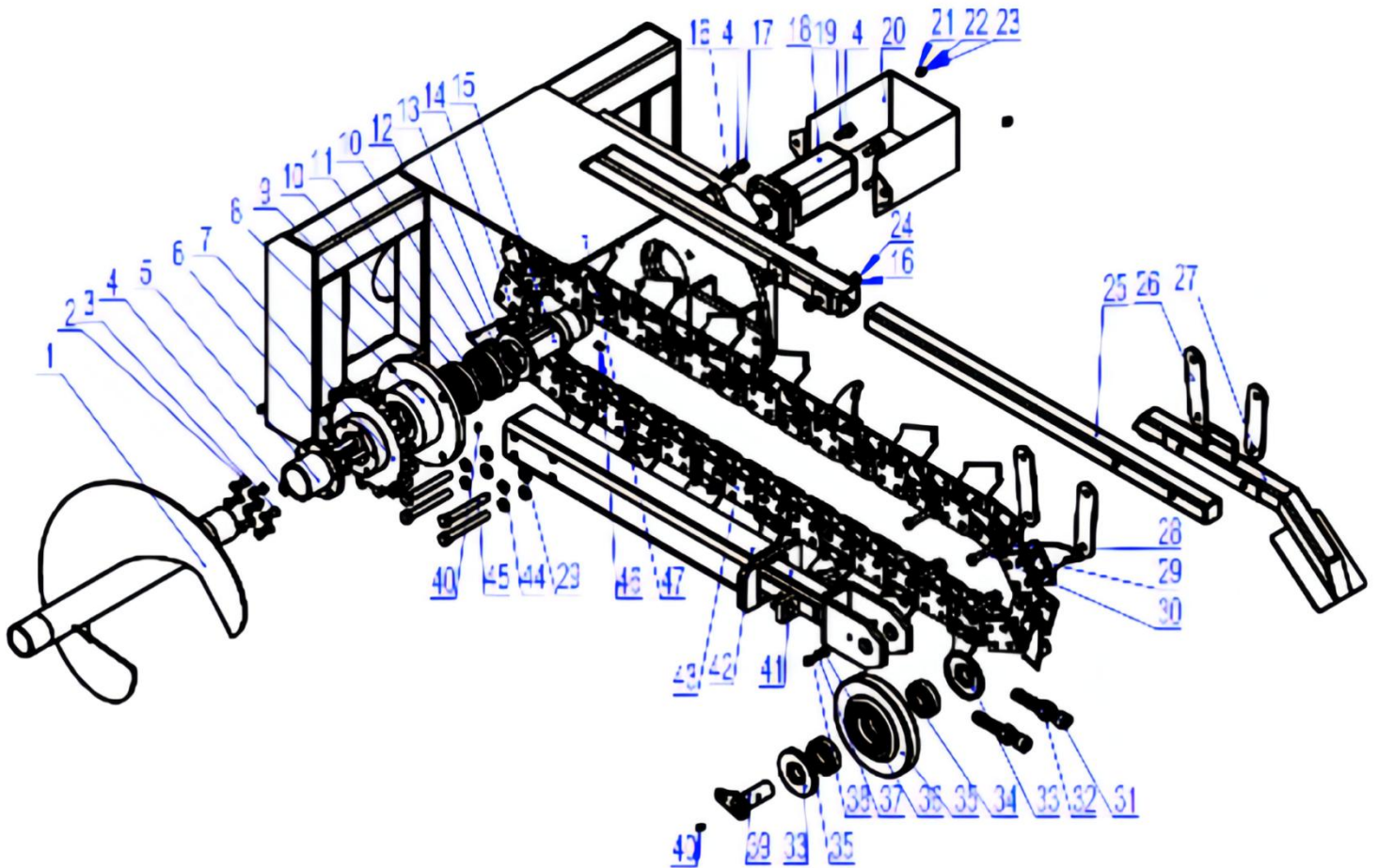
Model:	ECSSCT72
Total length:	78"
Total width:	51"
Total height:	23"
Digging Depths:	47.24"
Trench Widths:	5.11"
Flow (L/min):	45-75
Working Pressure (MPa):	15
Weight:	892.87lbs

Work environment:

Temperature: - 20 ~ 50 °C
Height: 100 meters or less
Relative humidity : ≤85%



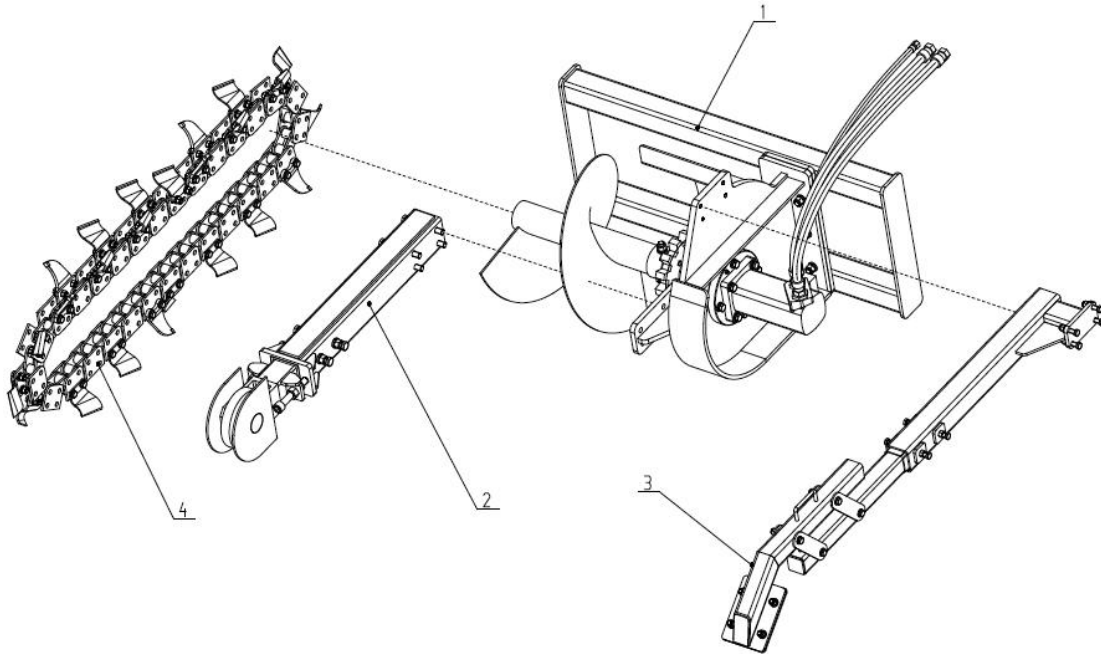
Technical parameters



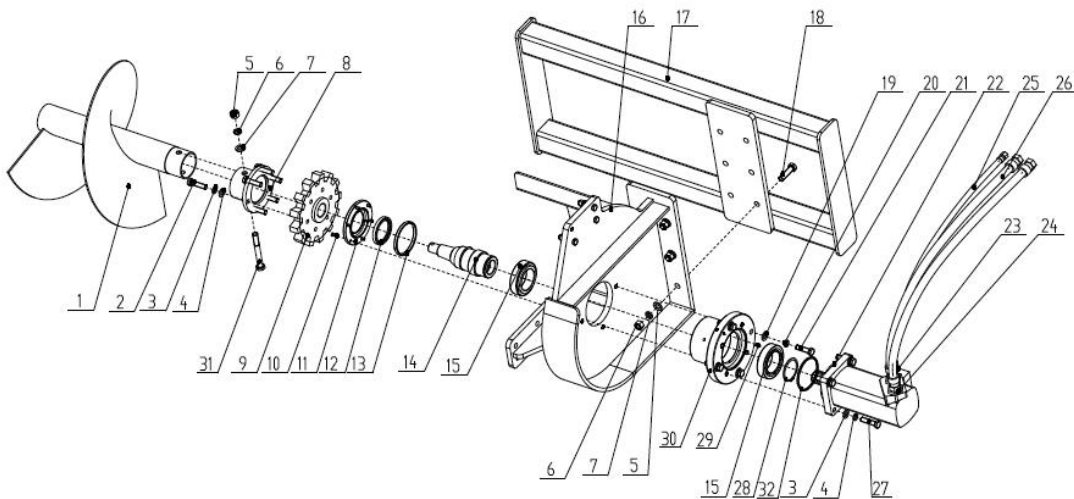
S/N	PART DESCRIPTION	QTYS	NOTE
1	Rotary conveying welding	1	
2	Hexagon head bolt (M12x35)	6	
3	Elastic washer ($\phi 12 \times 2.5$)	15	
4	Flat washer ($\phi 12 \times 2.5$)	9	
5	Flange sleeve welded	1	
6	Sprocket pin	2	
7	Drive sprocket	1	
8	Bearing seat welded	1	
9	Oil seal ($\phi 75$)	1	
10	Deep groove ball bearing ($\phi 75$)	2	
11	End ring	1	
12	Circlip for hole B-type ($\phi 115 \times 3$)	1	
13	Circlip for shaft B-type ($\phi 75 \times 2.5$)	1	
14	Oil seal ($\phi 90$)	1	

15	Sprocket shaft	1	
16	Hex nut (M12)	6	
17	Hexagon bolt (M12x60)	4	
18	Motor	1	
19	Hexagon bolt (M12x40)	7	
20	Motor cover	1	
21	Flat washer ($\varphi 8 \times 1.6$)	2	
22	Hexagon bolt (M8x12)	2	
23	Spring washer ($\varphi 8 \times 1.6$)	2	
24	Hexagon bolt (M12x40)	3	
25	Tail bracket welded	1	
26	Fender link piece	4	
27	Movable fender welded	1	
28	Hexagonal nut (M12)	5	
29	Flat washer ($\varphi 12 \times 3$)	9	
30	Hexagon head bolt (M12x90)	4	
31	Hexagon socket head screws (M20x140)	2	
32	Bolts connect auxiliary nuts (M20)	2	
33	Welding of driven wheel housing	2	
34	Deep groove ball bearing $\varphi 35$	2	
35	From the pulley	1	
36	Flat washer $\varphi 10 \times 2$	1	
37	Elastic washer $\varphi 10 \times 2.6$	1	
38	Hexagon head bolt M10x15	1	
39	Welded from the drive wheel pin baffle	1	
40	Straight through pressure oil filling cup	2	
41	Bearing seat support welded	1	
42	The casing base is welded	1	
43	Chain cutter assembly	1	
44	Spring washer $\varphi 16 \times 4$	5	
45	Hexagon head bolt M16x130	5	
46	Internal hexagon end set screw	1	
47	Frame assembly welded	1	

Technical parameters



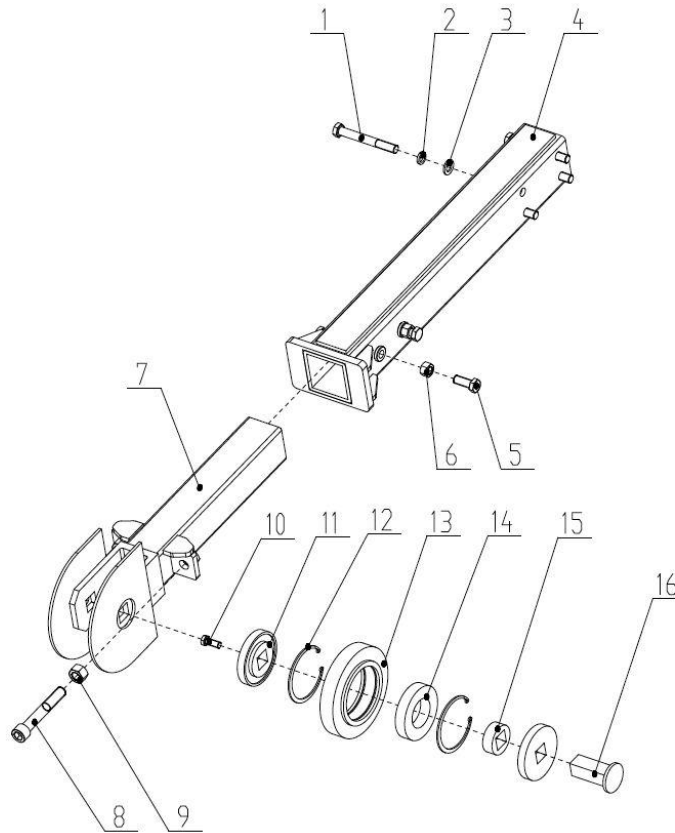
S/N	PART DESCRIPTION	QTYS	NOTE
1	MOUNTING FRAME ASSEMBLY	1	
2	PADDLE ASSEMBLY	1	
3	CHAIN TENSION ASSEMBLY	1	
4	CHAIN ASSEMBLY	1	



Technical parameters

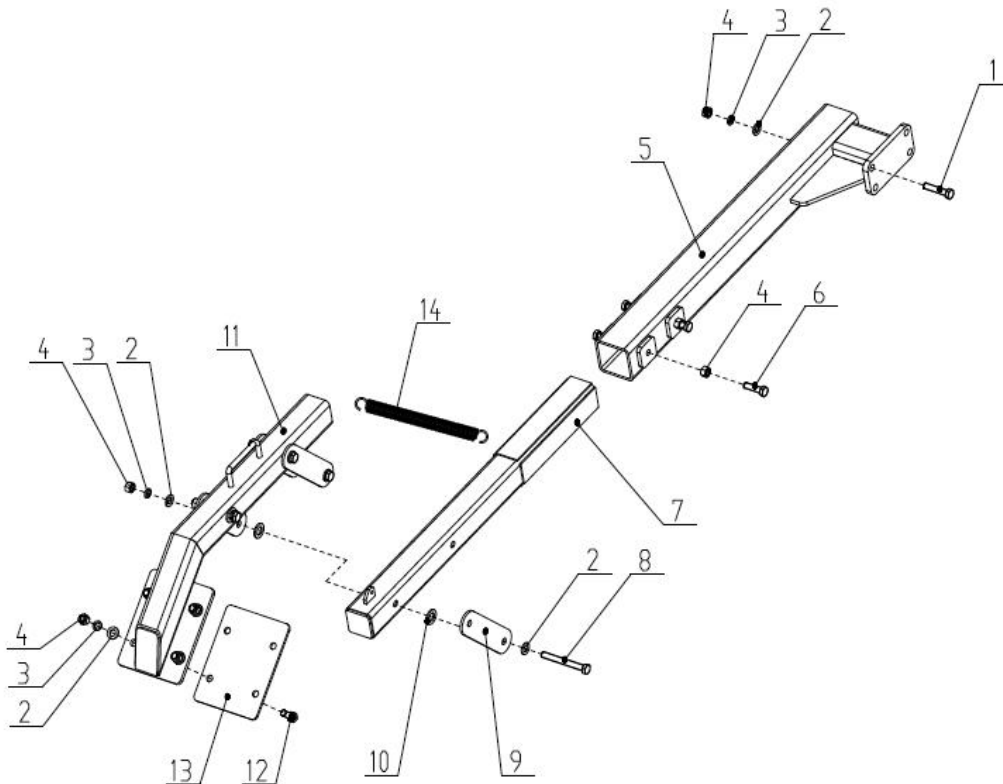
S/N	PART DESCRIPTION	QTYS	NOTE
1	ROTATION AUGER	1	
2	BOLT M14x55	6	
3	FLAT WASHER D14	6	
4	SPRING WASHER D14	6	
5	NUT M16	7	
6	SPRING WASHER D16	7	
7	FLAT WASHER D16	7	
8	CONNECTION BUSH	1	
9	CHAIN WHEEL	1	
10	HEXAGON SOCKET COUNTERSUNK HEAD SCREW M6x16	6	
11	END COVER	1	
12	SEALING RING	1	
13	SPACE BUSH	1	
14	DRIVING SHAFT	1	
15	BEARING	2	
16	MOUNTING FRAME	1	
17	REAR MOUNTING BRACKET	1	
18	HEXAGON HEAD BOLT M16x60	6	
19	FLAT WASHER D16	4	
20	SPRING WASHER D16	4	
21	HEXAGON HEAD BOLT M16x50	4	
22	MOTOR	1	
23	END THROUGH	1	
24	END THROUGH	2	
25	DISCHARGE OIL PIPE	1	
26	MAIN OIL PIPE	2	
27	HEXAGON HEAD BOLT M14x55	4	
28	ELASTIC SHAFT CLAMP	1	
29	GREASE NIPPLE	1	
30	BEARING SEAT	1	
31	BOLT M16x130	1	
32	O SEALING RING	1	

Technical parameters



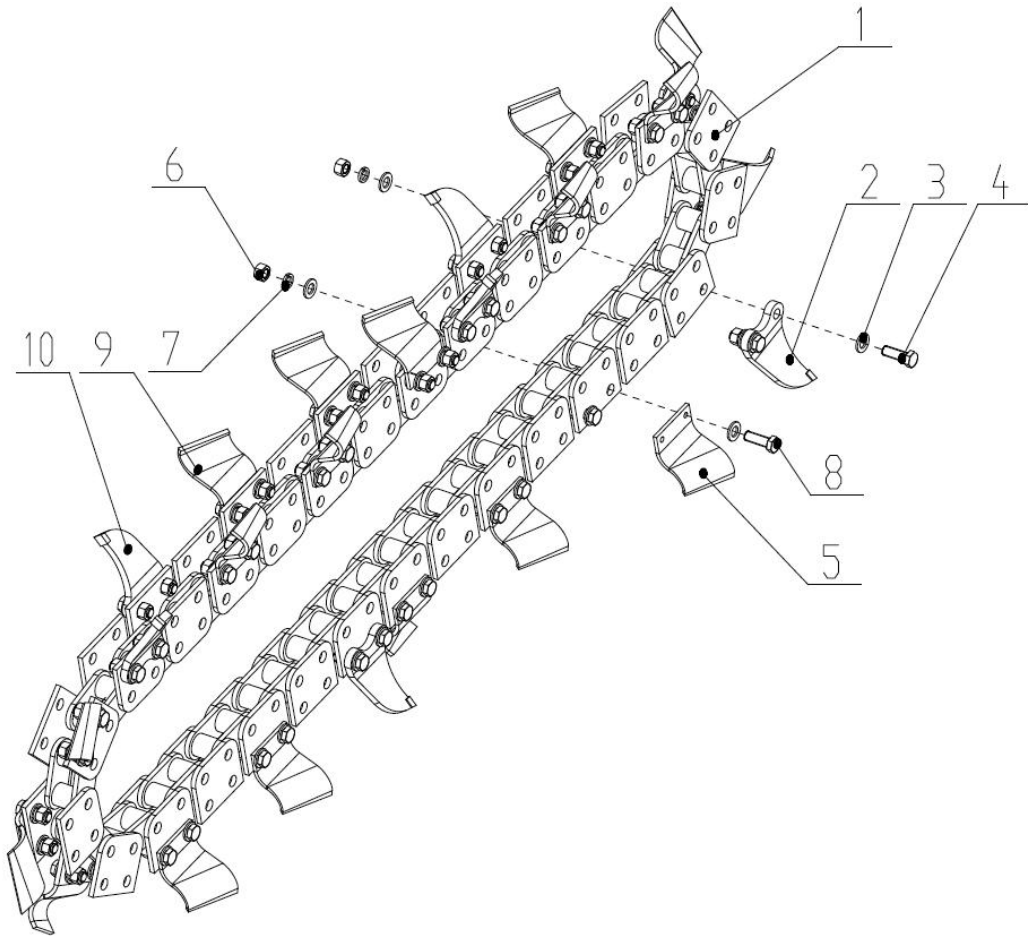
S/N	PART DESCRIPTION	QTYS	NOTE
1	MOUNTING FRAME ASSEMBLY	4	
2	PADDLE ASSEMBLY	4	
3	CHAIN TENSION ASSEMBLY	4	
4	CHAIN ASSEMBLY	1	
5	BOLT M16x130	4	
6	SPRING WASHER D16	4	
7	FLAT WASHER D16	1	
8	CHAIN TENSION SET	2	
9	BOLT M16x40	2	
10	NUT M16	1	
11	MOVABLE SET	2	
12	HEXAGON SOCKET HEAD M20x130	1	
13	NUT M20	1	
14	BOLT M12x30	1	
15	PIN	1	
16	ELASTIC HOLE CLIP	1	

Technical parameters



S/N	PART DESCRIPTION	QTYS	NOTE
1	BOLT M12x55	4	
2	FLAT WASHER D12	4	
3	SPRING WASHER D12	4	
4	NUT M12	4	
5	SOIL COLLECTION FRAME	1	
6	BOLT M12x40	4	
7	TELESCOPIC INNER FRAME	1	
8	BOLT M12x100	4	
9	CONNECITONING ROD	4	
10	FLAT WASHER D16	4	
11	SOIL COLLECTION FRAME	1	
12	BOLT M12x35	4	
13	NYLON PLATE	1	
14	SPRING	1	

Technical parameters



S/N	PART DESCRIPTION	QTYS	NOTE
1	CHAIN	58KNOTS	
2	RIGHT ALLOY TOOTH	4	
3	FLAT WASHER D12	64	
4	BOLT M12x40	8	
5	LEFT COMMONG TOOTH	11	
6	NUT M12	58	
7	SPRING WASHER D12	58	
8	BOLT M12x35	42	
9	RIGHT COMMONG TOOTH	10	
10	LEFT ALLOY TOOTH	4	

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

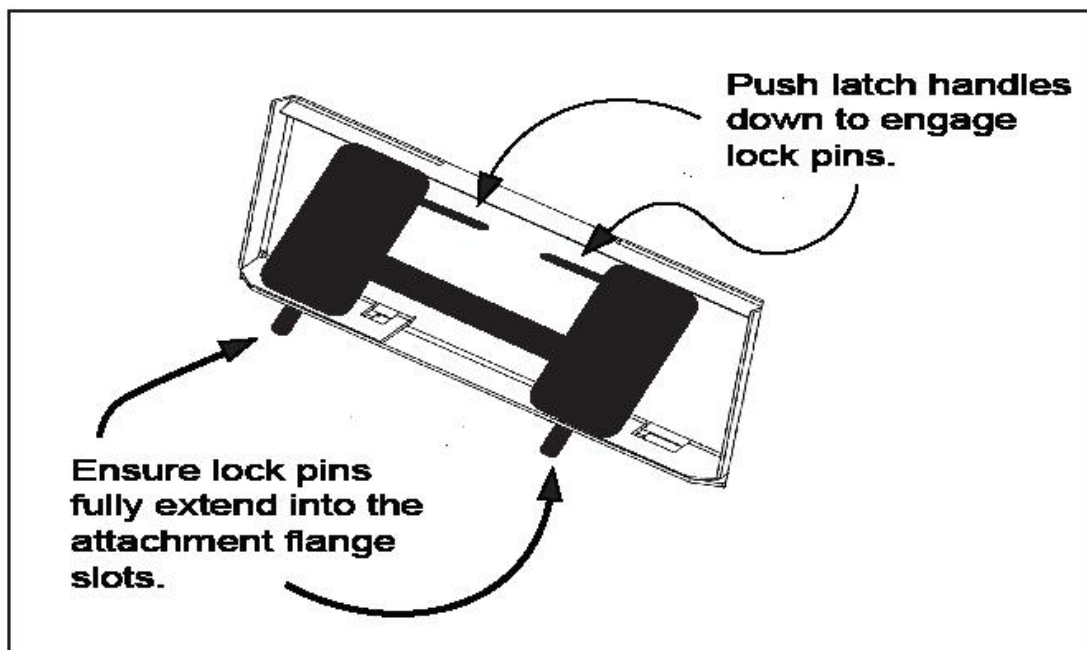
Equipment must be installed on a solid concrete floor or similar. If the ground is not firm, it will not be able to connect to the loader. There should be a space around the device for easy operation.

Connecting Vibratory Roller Attachment

Consult your skid steer operator's manual for specific instructions on how to connect your Skid Steer Trencher Attachment to your skid steer loader.

General Attachment Method

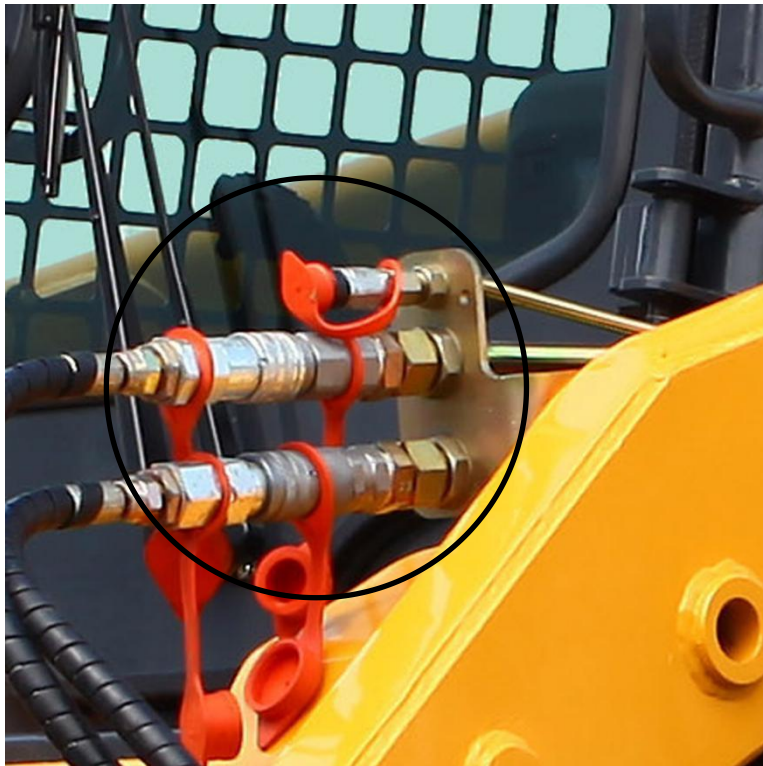
1. Make sure the hydraulic lines are clear from the front side of the Vibratory Roller Attachment attachment plate and that the locking pins on the skid steer mounting plate are retracted.
2. Drive forward and place top of skid steer mounting plate under the attachment mounting flange. See Figure below.
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

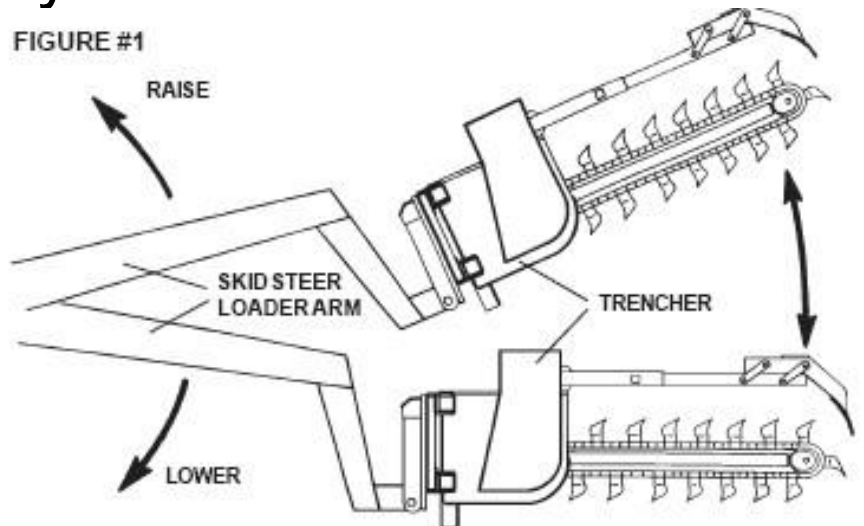
Installation

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.

Handling safety



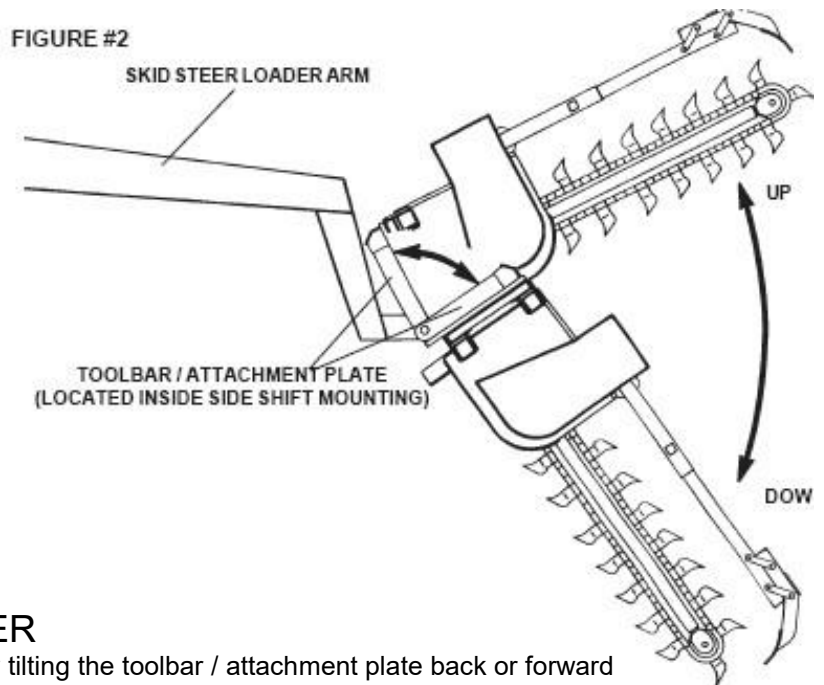
TRANSPORTING THE

When transporting the trencher, remember to keep the trencher as low to the ground as is practical. The lower the trencher rides, the more stable the skid steer will be. You do not want the trencher so low that the digging teeth touch the ground in rough terrain. Shut off the trencher before moving it away from the trench. Never transport the trencher around the job site or anywhere else while the digging chain is moving.

PERFORMANCE

Remember that your trencher's performance is directly related to the power available at your skid steer's auxiliary hydraulic system. If it seems to lack power or speed, it may be due to your skid steer's lack of sufficient auxiliary power.

Trencher performance is also related to how well it's maintained, digging tooth wear, and type and size of digging chain, crumber boom and shoe used.



TILTING THE TRENCHER

Tilt the trencher unit up or down by tilting the toolbar / attachment plate back or forward through its skid steer control. We recommend a 60° digging angle for general trenching as measured from ground level (the horizon). (See Figure #2)

Handling safety

CONTROLS TRENCHER

SIDE SHIFTING THE TRENCHER

You trencher has an adjustment to shift the whole unit to the side on its own mount. To shift the unit sideways, first remove the locking pin from the back of the unit.

Lower trencher until trencher frame is resting on the ground, then counter-rotate the tires so that the skid steer moves in a sideways motion. Continue moving until side shift holes are aligned and replace locking pin.

IMPORTANT: Always reinstall the locking pin to prevent the trencher from shifting sideways during operation.

NOTE: Slight shifting of the trencher from side to side may be necessary to align the side shift holes for reinstalling the locking pin.

STARTING AND STOPPING THE TRENCHER

Power to the trencher is supplied by oil from the skid steer auxiliary hydraulic system, which passes through the hydraulic hoses and into the trencher's hydraulic motor.

The trencher unit itself does not have an on/off control but is operated by the skid steer auxiliary hydraulic control mechanism.

To start the trencher, engage the auxiliary hydraulics. (This is usually done by a pedal located in the middle of the skid steer floor. See your skid steer owner's manual.) To stop the trencher, disengage the auxiliary hydraulics.

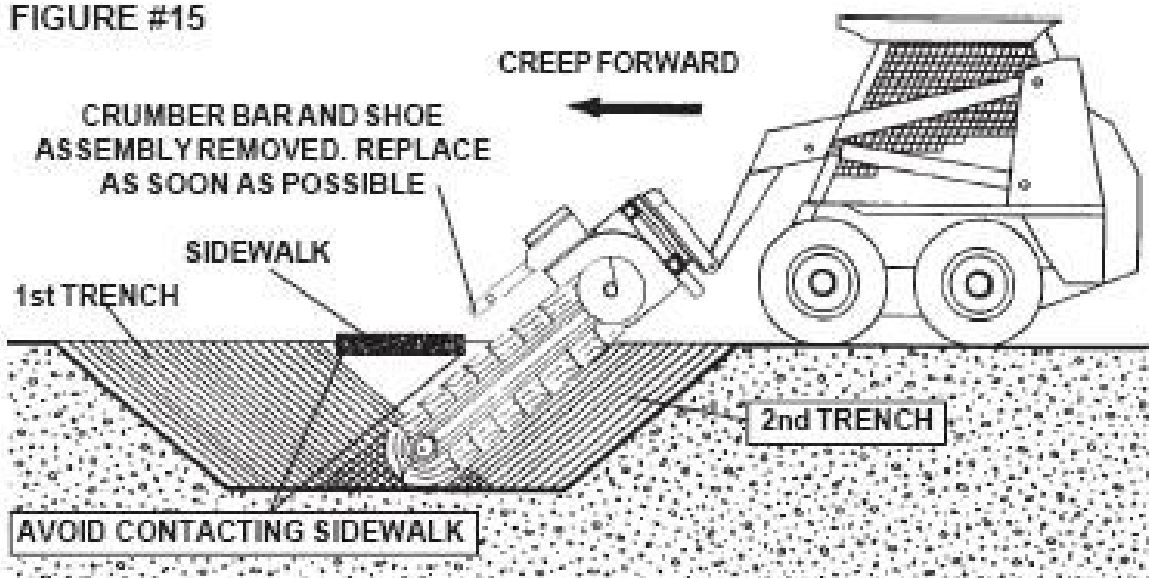
TRENCHER SPEED CONTROL

Again it may be noted that power to the trencher is supplied by the skid steer's auxiliary hydraulics. Trencher speed and power are determined by the flow of oil coming out of the auxiliary system, which in turn is dependent upon skid steer engine speed.

To increase trencher speed, increase skid steer engine speed, to decrease trencher speed, decrease skid steer engine speed.

When first starting a trench throttle down the skid steer engine to immediately. Some spoil will be left in the trench since the crumber was removed during the operation.

FIGURE #15



Handling safety

OPERATING TECHNIQUES SKID STEER S ENDING A TRENCH

When you have dug your trench, remember that the trencher boom is at an angle, and that you must continue trenching until the end of the boom has dug past the proposed end of the trench. Once the end of the trench has been dug, keep the running and lift the skid steer loader arms to lift the unit clear of the trench. When the trencher has cleared the trench, disengage the auxiliary hydraulics to stop the. Drive the skid steer away from the trench.

TRENCHING WITHOUT THE CRUMBER ASSEMBLY



The crumber bar and crumber shoe assembly are there for a reason, **YOUR SAFETY!** There are a few instances where removal may be necessary however. In these cases operate with extreme caution. Reinstall the crumber bar and crumber shoe as soon as possible.

You can use your trencher to dig under obstacles such as sidewalks. To do so, remove the crumber shoe and bar assembly and start your trench as before within a foot of the sidewalk. With the crumber bar and shoe removed you can start the trench vertically without any lead-in space.

When the desired depth has been reached, tilt the at a 60° angle while digging, then creep the skid steer forward and trench under the sidewalk. Be careful not to contact the edge of the sidewalk.

with the digging teeth.

After you have gone as far as you can without contacting the sidewalk, drive the skid steer in reverse to clear the sidewalk and remove the from the trench. Line up the unit on the other side of the walk and continue to trench as described above until the two trenches are connected.(See Figure #15)

Reinstall the crumber bar and crumber shoe assembly half throttle. This will reduce the shock to the skid steer and trencher when the digging teeth first contact the ground. Once the trench is started, set the engine back to full throttle.

For general use operate the trencher with the skid steer engine at full throttle to provide maximum power to the auxiliary hydraulics and thus the trencher.

AUGER HEIGHT

The auger is fixed to the trencher mainframe and has no separate adjustment. To raise the auger, raise the trencher as previously described. This will raise the auger and thus leave the dirt or spoil closer to the trench.

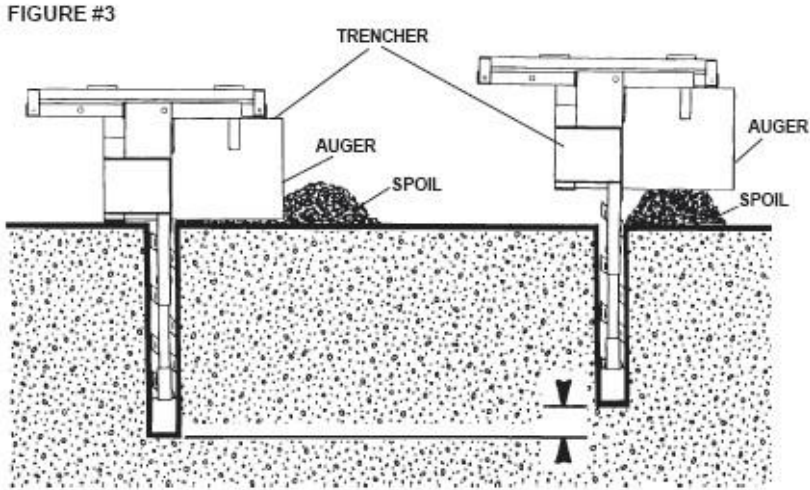
Lowering the trencher will cause the auger to lower, moving the spoil away from the trench.

The built-in skid shoe on the trencher will prevent the auger from being lowered to the extent that the auger itself starts to dig in the ground as this will greatly reduce efficiency.

Handling safety

OPERATING TECHNIQUES SKID STEER TRENCHER

It should be noted that raising or lowering the trencher to change the auger height will also change the trenching depth. You will need to compensate for this by changing the tilt of the trencher down or up accordingly.



CRUMBER SHOE/BAR ADJUSTMENT

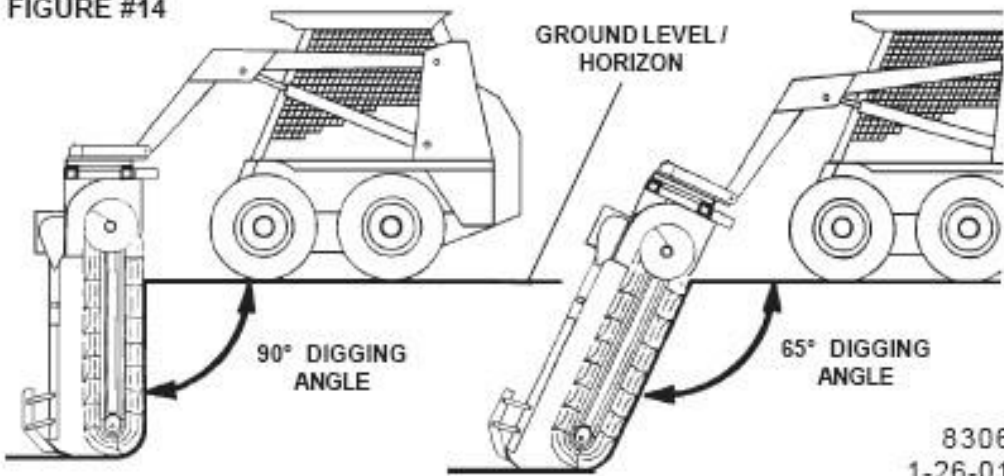
The purpose of the crumber shoe is to keep any loose dirt in the trench close enough to the digging chain so that the digging teeth can grab it and remove it. This will give you a cleaner finished trench. Your trencher has an adjustable crumber bar that can be lengthened or shortened to bring the crumber shoe closer or farther from the digging chain. To adjust the crumber bar length, loosen the two jam nuts found at the end of the mainframe crumber bar tube. Slide the bar in or out to achieve the desired spacing (we suggest a distance of about 4" between crumber shoe and digging teeth for best).

RECOMMENDED DIGGING ANGLES

A 90° digging angle is recommended for use in rock and frost conditions, and when trenching sharp corners. The 90° angle reduces excessive side pressure on the boom and digging chain when trenching corners. (See Figure #14)

A 60° - 65° digging angle is recommended for normal trenching. At this angle there will be less carry-over, and a cleaner trench bottom can be maintained than at a 90° angle. (See Figure #14)

FIGURE #14



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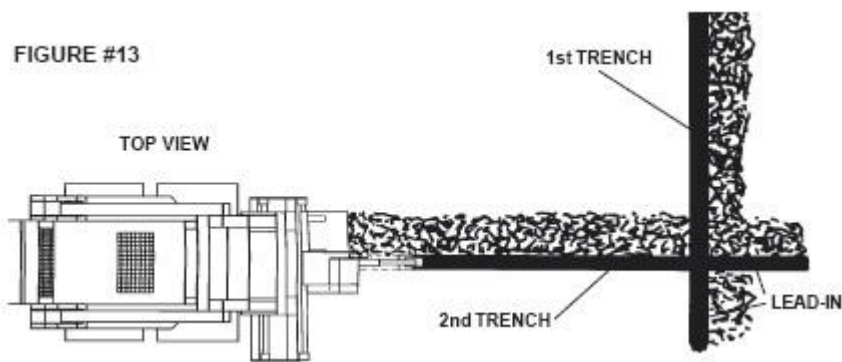
Handling safety

OPERATING TECHNIQUES SKID STEER STRENCHER

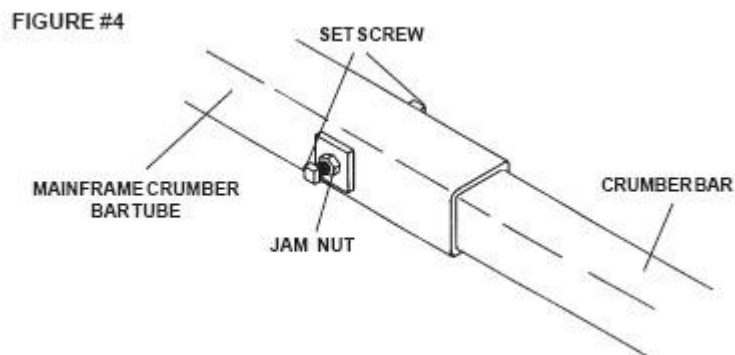
IMPORTANT: Turning too tightly while trenching will cause the trencher to jam in the trench and stall, leading to excessive oil temperatures. Turning too tightly can also cause the trencher boom to bend. Take it easy when turning. Proceed slowly with caution.

OPERATING TECHNIQUES SKID STEER TRENCHERS MAKING SHARP TURNS

To make sharp turns and 90° angles you will have to dig two trenches. Dig the first trench as you normally would. Then reposition the unit and dig the second trench at the appropriate angle. Be sure to take into account the extra lead-in space needed for the trencher to get down to the desired trench depth. (See Figure #13)



overall results. Tighten the set screws and jam nuts when finished. (See Figure #4)

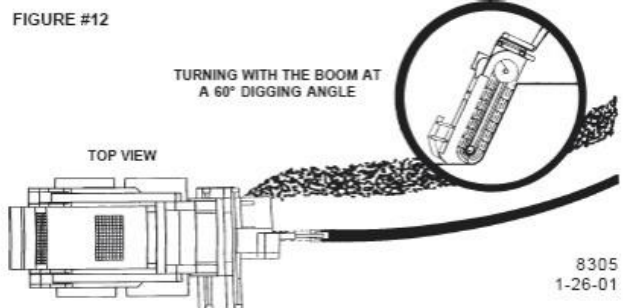
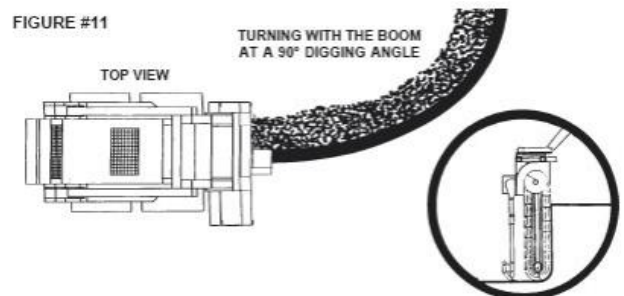
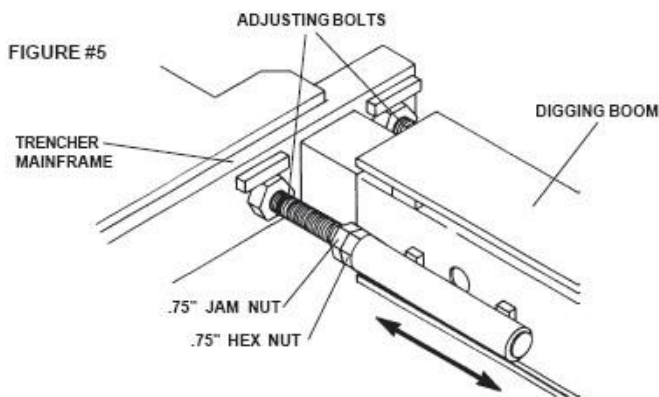


Handling safety

OPERATING TECHNIQUES SKID STEER STRENCHER

CHAIN TENSION ADJUSTMENT

When trenching, the digging chain tension should be adjusted so that the chain is as loose as possible, without jumping off the sprocket or idler wheel. To do this, an adjustment is provided on the digging boom. These booms have an adjusting bolt on each side at the trencher end of the boom. The head of the bolts are kept from rotating by special tubes welded onto the mainframe. The end of the bolt rests in a tube welded to the boom. Each bolt has a jam nut and a .75" hex nut on it. To tighten the chain, "back off" the jam nut from the regular nuts. Now turn the standard nuts off the adjusting bolts. This will push the boom out and thus tighten the chain. Retighten the jam nut when finished. To loosen the chain, follow the same procedure, except turn the hex nut onto the adjusting bolt. (See Figure #5)



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SKID STEER TRENCHERS

TURNING WHILE TRENCHING

Gradual turns can be made while trenching. However, the tightness of the turn is directly proportional to the angle and length of the boom. In other words the greater the angle of the trencher boom to the ground level, the sharper the turn that can be trenched. (See Figures #11 & #12) Also the shorter the boom length the sharper the possible turn. Remember, the greater the increase in boom angle the higher the unit will have to be raised out of the trench to keep a unified trench depth. Shallow boom angles will severely limit turning ability.

Handling safety

OPERATING TECHNIQUES SKID STEER TRENCHER

With the desired trench depth reached, advance the skid steer throttle to the desired engine RPM (we suggest full throttle for maximum digging power). Continue creeping the skid steer in reverse. Monitor the skid steer hydraulic oil pressure and temperature gauges as you trench. If hydraulic oil temperature or pressure gets too high, reduce skid steer creeping speed to reduce the load on the auxiliary hydraulic system.

IMPORTANT: Trying to trench at a speed faster than the auxiliary hydraulic system can handle could cause the trencher to stall.

Continued stalling in a short period of time can cause excessive oil temperature which can lead to pump failure. Do not try to trench too much too quickly. If oil temperature becomes too hot, stop the trencher and allow the oil to cool.

STALLING THE TRENCHER

If the trencher stalls while digging, move the skid steer forward slightly to free the trencher may be able to free up the digging chain by changing its direction of travel with the auxiliary hydraulic. Repeated stalling of the trencher will cause oil to overheat rapidly and should be avoided.

This procedure must be done simultaneously to both adjusting bolts to prevent the boom from becoming wedged onto its mount.



Never work on, or make adjustments to any part of the trencher while the unit is running. You could get caught in the digging teeth which could cause severe injury or death.

It is common for your trencher to need its digging chain tightened after the first 10 to 20 minutes of operation as the chain and sprocket seat themselves.

GENERAL INFORMATION

The design of your trencher makes it relatively simple to use. With the help of the information in this section and a little practice you should become proficient in its operation in no time.

Observe the following points to obtain the best results with the least amount of wear on the machine. Read the "Safety Precautions" section of this manual before you begin.



Operate the trencher only when seated at the skid steer. Do not operate the skid steer without proper ROPS (Roll Over Protective Structure), seat belt, and hard hat. Pay attention to the job at hand. Be alert to the possibilities of others in the work area. Never let anyone work around, or perform maintenance on the trencher while it is running. Always use a crumpler assembly on the trencher.

Handling safety

OPERATING TECHNIQUES SKID STEER TRENCHER

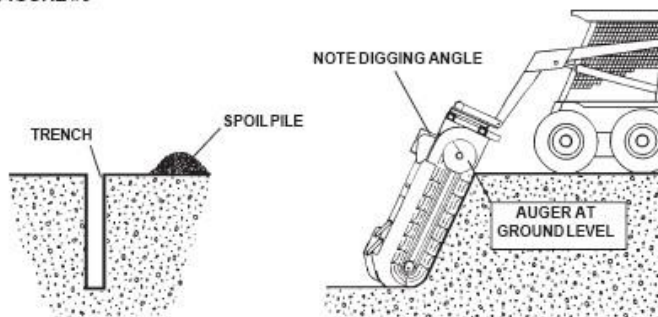
Before any excavating is started, it is always a good idea to plan out the job first. Various things need to be considered and taken into account prior to the actual trenching. The operator should inspect the job site and take notice on any potential hazards in the area. He should have a complete understanding of the task he is expected to perform. Figure out what will be done with the spoil (excavated soil), will it be used to backfill or be trucked out? What are the soil conditions like? Will you have to work around others? Etc.



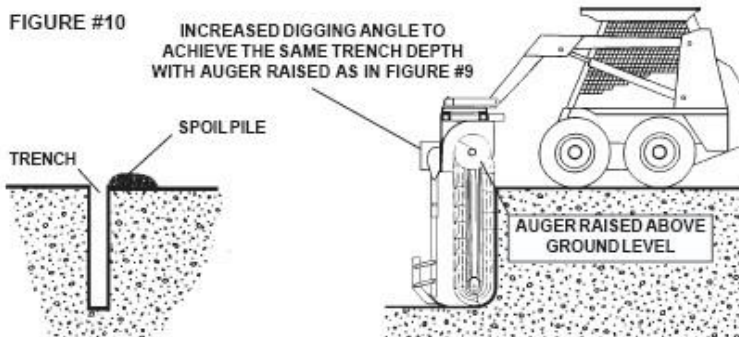
Check the prospective trenching area for hidden utility lines before operating the trencher. Contacting a utility line with the trencher could cause electrocution resulting in death. Call all utility companies and have them plot out all their lines first. If you damage a utility line, shut off the equipment at once and contact the affected utility immediately.

Once you have become familiar with the job site and understand away from the trench. (See Figure #9)

FIGURE #9



Raise the trencher so that the auger rides above the ground level to leave the spoil beside the trench. The higher the auger, the closer to the trench the spoil will be placed. You may find that it generally takes less power to run the digging chain if the auger runs 3" - 6" (inches) off the ground, and thus increasing the potential footage of trench produced per hour. The higher you want the auger, the more vertical you will have to tilt the trencher to achieve the same trench depth. (See Figure #10)

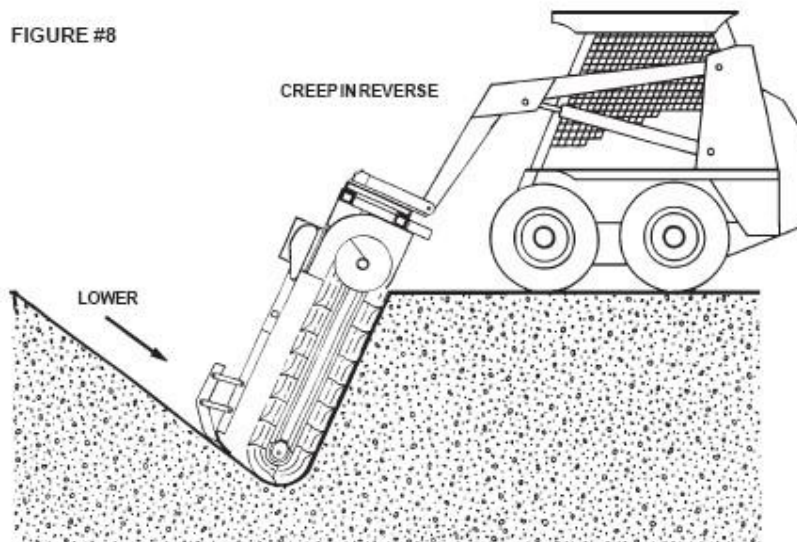
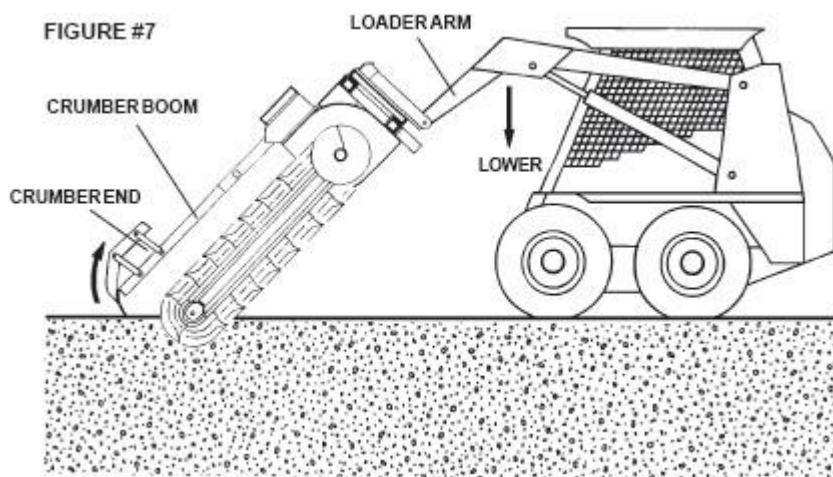


Handling safety

OPERATING TECHNIQUES SKID STEER STRENCHER

Behind you before reversing the skid steer to trench. Be aware of any person or thing in the path of the skid steer. Observe any terrain changes such as drop-offs or soft ground.

When trenching, remember to keep in mind the spoil placement. Position the so that the auger floats at ground level to move spoil the job requirements it is time to set up for the actual trenching. Check the soil type (hard, soft, rocky, etc.) and the trenching requirements (how deep, wide, etc.). Install the proper digging chain, sprocket, boom, crumber bar and shoe for the job at hand. Information on chains, sprockets, booms, crumber bars and shoes may be found in Sections I and J.



Locate the trencher on the mount with the side shift mechanism (as explained earlier in this section) where it will be most efficient and easy to use. Mark off the area to be trenched out. This can be done with powdered lime, chalk, or a guide string and stakes. Block off the area from all bystanders if possible.

Handling safety

OPERATING TECHNIQUES SKID STEER TRENCHER

Position the skid steer with the trencher boom directly over the center of the trench layout. It will take about 4' of trenching before the trencher will be able to operate at the desired level, so plan for this and position the trencher about 4' behind where you want the actual trench to start.

NOTE: The skid steer is driven in reverse when trenching.
You cannot trench driving the skid steer forward.

Raise the trencher with the skid steer loader arms and tilt the trencher at a 45° angle. (See Figure #6) Position the unit so that the digging teeth are just above ground level. Set the skid steer throttle at half speed. Start the digging chain by engaging the skid steer auxiliary hydraulic system.

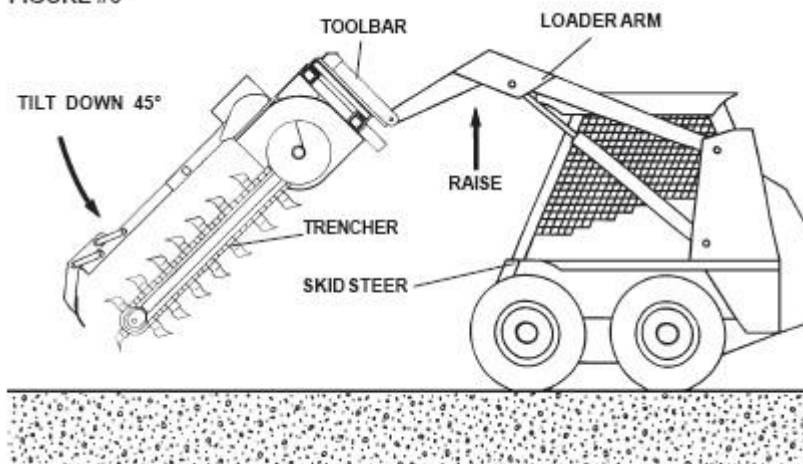


When lowering a moving digging chain to the ground the force of the teeth grabbing the ground will try to pull the trencher suddenly forward. Be prepared. Have the brake on the skid steer set to help counteract the force.

Slowly lower the digging chain into the ground to start the trench. Do this by lowering the trencher with the loader arms. Continue lowering the unit until the crumber end rolls all the way back on the crumber bar. (See Figure #7)

IMPORTANT: After the crumber end has rolled all the way back, do not lower the trencher any farther without moving the skid steer in reverse. Failure to do so could result in bending of the crumber boom, which is not covered by warranty.

FIGURE #6



Be alert to what is happening around you.
Look



Once the crumber end has "bottomed out", begin slowly creeping the skid steer in reverse while continuing to lower the loader arms. When nearing the required depth, stop lowering and tilt the trencher to a 60° to 65° angle. A 60° - 65° angle works best for general trenching. (See Figure #8)

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 AGT equipment manufacturing 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.

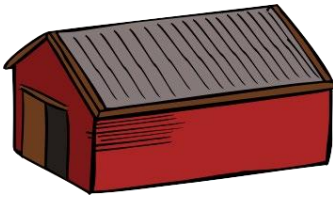
Handling safety

Storage Tips

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



Ensure Skid Steer Trencher Attachment is free of debris, dirt, grime and grease.



Store your Skid Steer Trencher Attachment in a dry shed or garage.



When storing your Skid Steer Trencher 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.

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