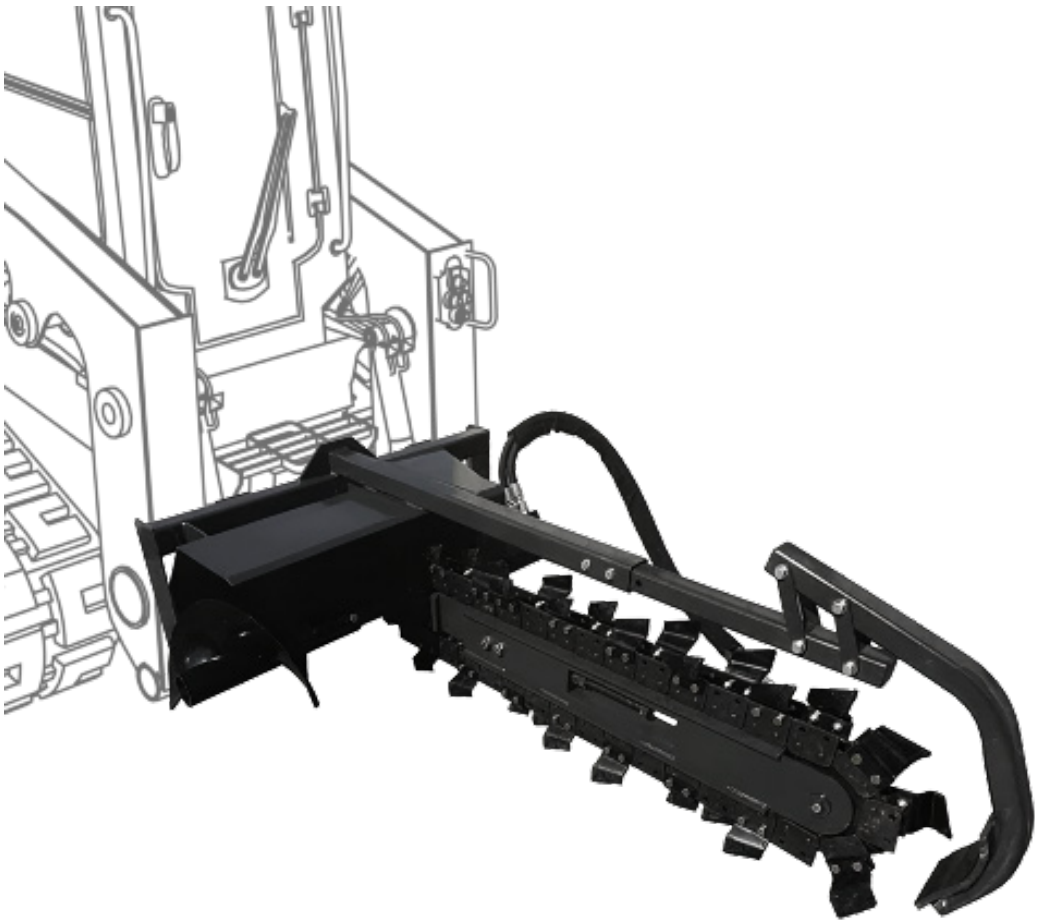
IRONCRAFT

TRENCHER



OPERATION AND PARTS MANUAL

Read and understand the manual. This manual provides information and procedures to safely operate and maintain the Trencher.

MAR 2026

REGISTER YOUR PRODUCT

IRONCRAFT

423-405-5150

MODEL		WEIGHT	
PART		HP RANGE	
SERIAL			
HYDRAULIC PRESSURE		HYDRAULIC FLOW	

WWW.IRONCRAFTUSA.COM

Please see the inside of the back cover for instructions of where to find your model and serial number.

⚠WARNING

To prevent personal injury or even death, be sure you read and understand all the instructions in this manual and other related OEM equipment manuals! This attachment if not used and maintained properly, can be dangerous to users unfamiliar with its operation. Do not allow operating, maintaining, adjusting, or cleaning of this attachment until the user has read this manual and has developed a thorough understanding of the safety precautions and functions of the unit. DO NOT modify or use this attachment for any application other than that for which it was designed. Attachments maintained or operated improperly or by untrained personnel can be dangerous, exposing the user and/or bystanders to possible serious injury or death.

Purchase Date:	
Dealer Name:	
Address:	
Phone Number:	

WELCOME

Thank you for choosing IRONCRAFT. This attachment has been designed and manufactured to meet the needs of discerning users. We are committed to providing you with a heavy duty product that will provide years of satisfaction and safe operation.

This manual will provide instructions on how to safely operate and maintain this attachment. All users must read and understand this manual before operating this attachment. Upon reading this manual, all users should sign the “Safety Acknowledgment Form” at the end of this manual.

Please record your model and dealer information on the inside front cover. You will be asked to provide this information when ordering parts or requesting service. If you need more information on this product, contact your local dealer or visit *WWW.IRONCRAFTUSA.COM.*

Sincerely,

IronCraft

Copyright © 2026, IronCraft Attachments, INC All Rights Reserved. This manual may not be reproduced or copied, in part or in whole without written permission from IronCraft Attachments, INC.

TABLE OF CONTENTS

INTRODUCTION.....3

WARRANTY DISCLAIMERS.....5

SECTION 2 SAFETY INFORMATION

2.1 Safety Terms.....6
2.2 Safety Symbols.....7-8
2.3 Safety Decals.....9-10
2.4 Skid Steer Loader Requirements.....11
2.5 Personal Protective Equipment Requirements.....11
2.6 General Safety Instructions.....12
2.7 Federal Laws and Regulations.....13

SECTION 3 OPERATING PROCEDURES

3.0 Unpacking Your Trencher 14
3.1 How to Connect Attachment.....14-15
3.2 How to Disconnect Attachment.....16
3.3 Controls.....16-17
3.4 Learning Your Attachment.....18
3.5 Before Using Your Attachment.....19
3.6 Operating Tips.....19
3.7 Digging Preparation.....20
3.8 First Time Use.....21
3.9 Operating Instructions.....22-27
3.10 Basic Digging Techniques.....28

SECTION 4 MAINTENANCE PROCEDURES

4.0 Maintenance Overview.....29-30
4.1 Maintenance Schedule.....30
4.2 Maintenance Log Instructions.....31
4.3 Storage Tips.....31
4.4 Torque Specifications Table and Instructions.....32
4.5 Torque Equipment Requirements.....32
4.6 Lifting Points.....33
4.7 Tie Down Points.....33
4.8 Chain Tensioning.....34
4.9 Chain Removal.....34-35
4.10 Chain Installation.....35
4.11 Lubricating Your Chain.....35
4.12 Replacing Your Tail wheel.....36

SECTION 5 TROUBLESHOOTING

5.0 Troubleshooting Chart.....37-38

SECTION 6 SPECIFICATIONS

6.0 Specification Chart.....39
6.1 Trencher Nomenclature.....40

SECTION 7 PARTS INFORMATION

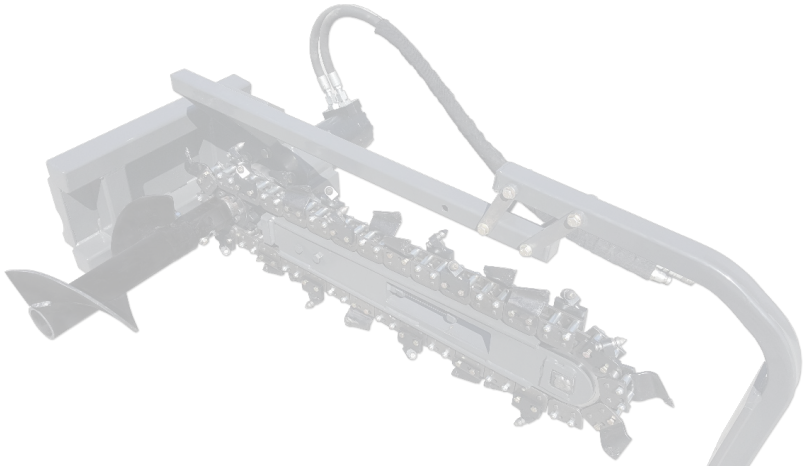
7.0 Parts Information Form.....41
7.1 48” Low Flow Trencher Parts Diagram.....42
7.2 48” Mid Flow Trencher Motor Parts Diagrams.....43

SECTION 8 WARRANTY INFORMATION
8.0 Warranty Statement.....44

SECTION 10 SAFETY ACKNOWLEDGMENT FORM.....45

SECTION 11 MAINTENANCE LOGS.....46

APPENDIX A HOW TO FIND YOUR SERIAL NUMBER......47



IMPORTANT WARRANTY DISCLAIMERS

ATTENTION: If your attachment has control valves, cylinders, gearboxes, or motors and they are opened or disassembled, the WARRANTY for that item WILL IMMEDIATELY BE VOIDED!

GEAR OIL STATEMENT: If applicable in your attachment, check gear oil before each use:

We recommend using 85-140 grade gear oil, for use with all our gear boxes, and bearing housings which is separate from the hydraulic fluid used to move your attachment or machine.

(Exception: gear oil used in mulchers is Shell Omala S2 GX 150!)

HYDRAULIC FLUID STATEMENT: Check your machine's hydraulic level and add hydraulic fluid if necessary before each use. Inspect for leaks, and repair if necessary. **Always use your machine's manufacturer recommended hydraulic fluid in your machine!** Fluid must be clean and debris free. If damage occurs from debris in hydraulic fluid flowing from your machine to our attachment it will VOID the warranty on any cylinders, motors, couplers, manifolds &/or valves (relief, lock, selector, check and flow control) down line from that flow.

WARNING: This product can expose you to chemicals including benzene and mineral oils, which are known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

SECTION 2

SAFETY INFORMATION

The following terms may be used interchangeably throughout this manual.

Term	Alternate Terms Used
Trencher	implement, attachment
Machine	skid steer loader, skid steer, tractor, loader, prime mover, host machine
Operator	user, personnel

The **Trencher** is designed and manufactured with safety in mind. However, improper use and operator error can result in death or serious injury. It is important that you read and fully understand the safety instructions and operating procedures presented in this manual before operating this attachment. Accident prevention is a combination of good judgment, common sense, awareness and proper training!

⚠ BEFORE YOU OPERATE THIS TRENCHER:

KNOW how to safely operate your machine.

READ and UNDERSTAND the safety instructions and operating procedures contained in this manual.

ACKNOWLEDGE your understanding of all safety instructions presented in this manual by signing the “Safety Acknowledgment Form” at the end of this manual.

Although every effort has been made to ensure a safe product, every possible circumstance that could pose a potential hazard cannot be anticipated. The warnings presented in this manual and on this product, are therefore not all-inclusive.

In addition to the safety messages presented in this section, you must also read and understand the safety messages presented in the other sections of this manual.

This manual and the decals on this machine use safety symbols, hazard labels, pictograms and color coded signal words to alert you to potential hazards that may cause severe injury or death if a safety instruction is ignored.



SAFETY ALERT SYMBOL - This symbol is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

HAZARD CLASSIFICATIONS

Hazards are identified by the “Safety Alert Symbol” and followed by the signal word “DANGER”, “WARNING”, or “CAUTION”.

DANGER

Indicates an imminently hazardous situation which,

if not avoided, will result in death or serious injury.

This signal word is limited to the most extreme situations.

WARNING

Indicates a potentially hazardous situation which, if

not avoided, could result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation which,

if not avoided, may result in minor or moderate injury.

NOTICE

Indicates a situation which may cause damage to equipment or property.

Messages are not related to personal injury.

Safety Instructions

Indicates specific safety-related instructions or procedures.

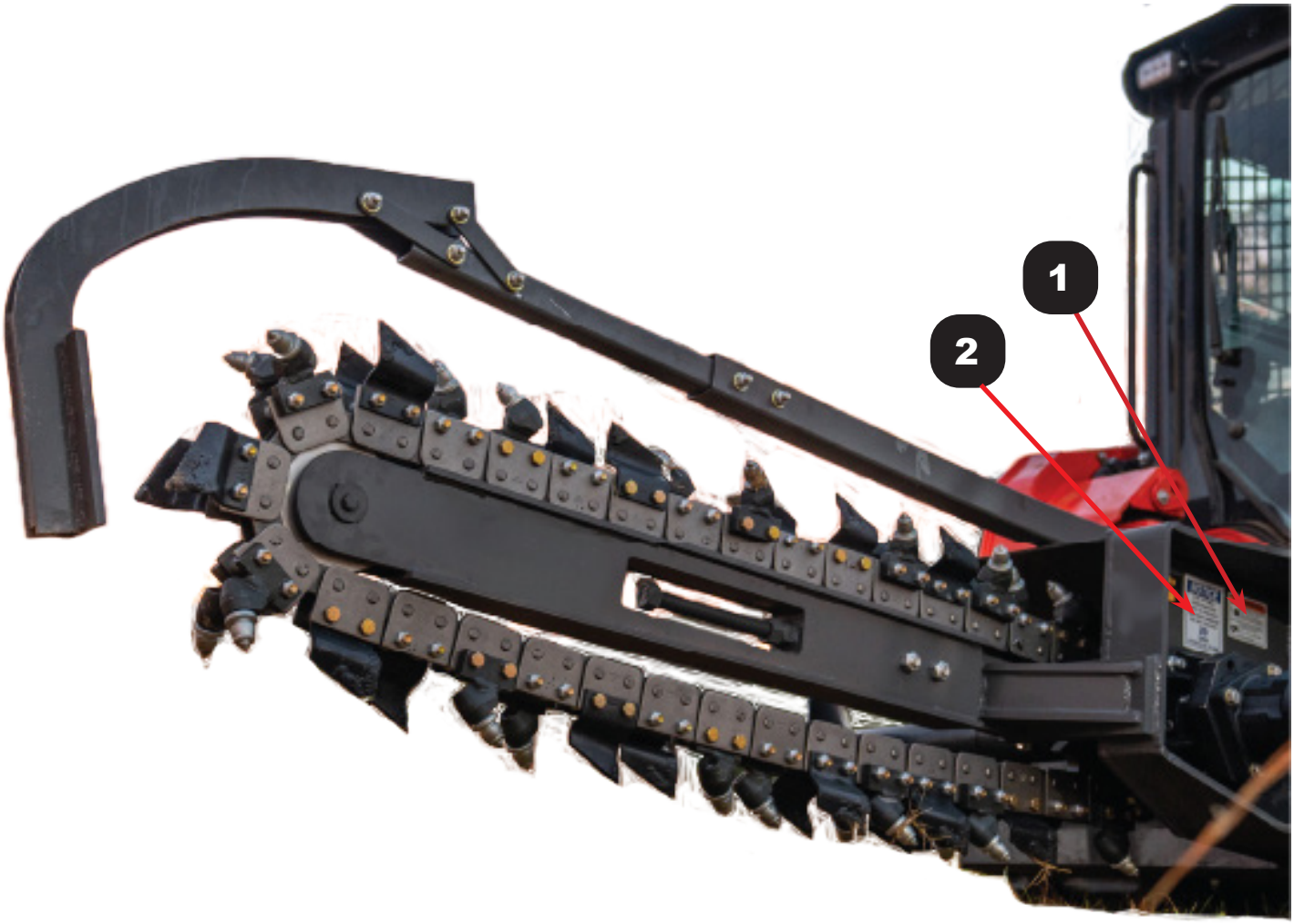
2.2 SAFETY SYMBOLS

Pictograms are graphic symbols meant to alert you of a potential hazard. Read and understand the hazard description for each of these symbols.

Pictogram	Description
	**PINCH HAZARD**: Keep clear of machine and attachment to prevent death or serious injury from pinching of moving parts.
	**OPERATING MANUAL**: Operators must read and understand the safety instructions in the operating manual to prevent death or serious injury.
	**EYE PROTECTION & CARDBOARD**: Operators and Maintenance personnel must wear proper eye protection and use cardboard or wood to investigate hydraulic leaks to prevent death or serious injury from being injected with high pressure hydraulic fluid.
	**HIGH PRESSURE FLUID INJECTION HAZARD**: Operators and Maintenance personnel must not place fingers or hands directly over a hydraulic leak to prevent death or serious injury from being injected with high pressure hydraulic fluid.
	**NO BYSTANDERS**: DO NOT operate this attachment near bystanders. Bystanders must stay back at least 25 feet from the attachment to prevent death or injury from flying objects.
	**CRUSH HAZARD**: DO NOT place any part of the body under the attachment or machine arms to prevent death or serious injury from being crushed .
	**ENTANGLEMENT HAZARD**: STAY BACK from machine while in use. Contact with rotating auger could kill or cause serious injuries.

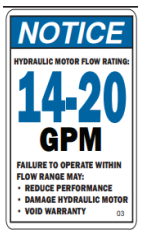
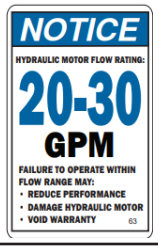
Safety warning decals are located on this attachment near immediate areas of potential hazards. Operators must learn the meaning of each decal and know where to find the decal on the attachment.

CONTACT YOUR LOCAL DEALER TO ORDER REPLACEMENT DECALS



2.3 SAFETY DECAL CHART

The safety decals affixed to this attachment are to keep you safe. DO NOT ignore these decals. Read and understand each decal's safety message. Follow these Safety Decal Instructions:

REF	DESCRIPTION	LABEL	QTY
1	COMBO WARNING LABEL		1
2	HYDRAULIC FLOW RATING	 	1

WHEN ORDERING, CHOOSE THE PROPER DECAL FOR YOUR MODEL

⚠ **Decals must be kept clean and legible at all times.**

⚠ **Operators must inspect the attachment for safety decals.**

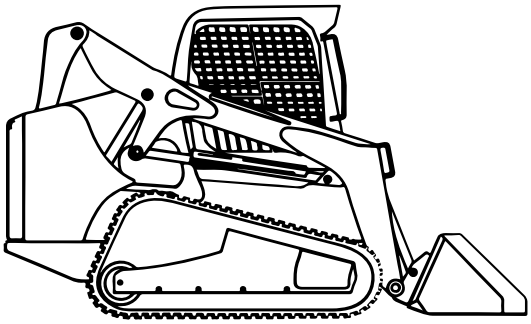
⚠ **Replace missing, worn or damaged decals immediately.**

⚠ **When using a hot pressure washer to clean this attachment make sure water jet is not too close to the decal as this may cause the decal to peel.**

⚠ **When replacing parts, be sure safety decals are in place prior to using the attachment.**

⚠ **Make sure metal surface is dry and free of dirt and grease before affixing decals to this attachment.**

2.4 SKID STEER LOADER REQUIREMENTS



Tracked

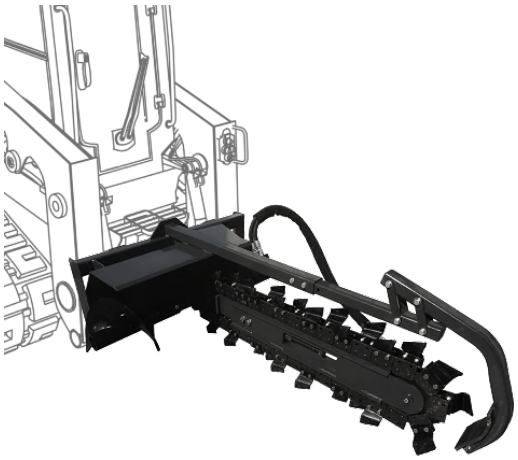
VS.



Wheeled

A Tracked Skid Steer or Compact Track Loader (CTL) will provide superior stability in this application.

Follow the operating instructions in your Skid Steer operator's manual.



THE TRENCHER Attachment should only be used on machines that meet the necessary requirements.

2.5 PERSONAL PROTECTIVE EQUIPMENT (PPE)

All operators should wear hearing protection, safety glasses, hand protection and dust mask while operating this attachment.









2.6 GENERAL SAFETY INSTRUCTIONS

MAKE SURE YOU FOLLOW THE GENERAL SAFETY INSTRUCTIONS THAT RELATE TO THE OVERALL OPERATION AND MAINTENANCE OF THIS ATTACHMENT. IT IS IMPORTANT THAT YOU READ AND UNDERSTAND EACH OF THESE MESSAGES TO PREVENT SERIOUS INJURY OR DEATH.

- **NEVER use drugs or alcoholic beverages while operating or servicing this attachment.**
- **ALWAYS operate this attachment during daylight or well-lit areas.**
- **We recommend using a high strength clear protective door panel when using with this attachment.**
- **To prevent the machine and attachment from rolling forward, stop the engine and set the parking brake when exiting the machine.**
- **Inspect attachment for loose or missing hardware prior to use.**
- **DO NOT allow children to play on or around this attachment at any time. Store this attachment in an area not frequented by children.**
- **ALWAYS wear the proper personal protection equipment while operating or servicing this attachment. NEVER operate or service this attachment with bare feet, sandals, or other light footwear.**
- **ALWAYS wear work gloves when handling this attachment to protect your hands.**
- **ALWAYS use eye protection while operating or servicing this attachment.**
- **ALWAYS watch for overhead power lines.**
- **DO NOT place any part of your body under this attachment.**
- **NEVER operate this attachment when bystanders are within 25 feet of your work area. Flying debris could cause serious injury or death.**
- **NEVER position your body or limbs under an unsupported attachment.**
- **DO NOT allow this attachment to contact buildings, utilities, large rocks or tree stumps or you may lose control of the machine.**
- **DO NOT operate this attachment during lightning or severe weather conditions.**
- **DO NOT allow riders on the machine or on this attachment.**
- **ALWAYS call 811, the "Digger's Hotline" before digging to identify underground utilities to avoid an accident that could result in Death or Serious Injury to the operator.**
- **DO NOT speed! Speed Kills! Keep your driving speed between 2 and 5 mph.**
- **NEVER leave equipment unattended with the engine running, or with this attachment in a raised position.**

IMPORTANT FEDERAL LAWS AND REGULATIONS CONCERNING EMPLOYERS, EMPLOYEES, AND OPERATORS

This section is intended to explain in broad terms the concept and effect of the following federal laws and regulations. It is not intended as a legal interpretation of the laws and should not be considered as such.

U.S. PUBLIC LAW 91-596 (The Williams-Steiger Occupational Safety and Health Act of 1970) OSHA

This Act Seeks:

" ... to assure so far as possible every working man and woman in the nation safe and healthful working conditions and to preserve our human resources... "

Sec. S(a) Each Employer – **DUTIES**

(1) shall furnish to each of its employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to its employees.

(2) shall comply with occupational safety and health standards promulgated under this Act.

(b) Each employee shall comply with occupational safety and health standards and all rules, regulations, and orders issued pursuant to this Act which are applicable to his or her own actions and conduct.

OSHA Regulations

Current OSHA regulations state in part: "At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee in the safe operation and servicing of all equipment with which the employee is, or will be involved." These will include (but are not limited to) instructions to:

Keep all guards in place when the machine is in operation;

Permit no riders on equipment;

Stop engine, disconnect the power source, and wait for all machine movement to stop before servicing, adjusting, cleaning, or unclogging the equipment, except where the machine must be running to be properly serviced or maintained, in which case the employer shall instruct employees as to all steps and procedures which are necessary to safely service or maintain equipment.

Make sure no one is within 300 feet of machinery before starting the engine, engaging power, or operating the machine.

EMPLOYEE MACHINE OPERATING INSTRUCTIONS:

1. Securely fasten your seat belt if the machine has the capability.
2. Where possible, avoid operating the machine near ditches, embankments, and holes.
3. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.
4. Stay off slopes too steep for safe operation.
5. Watch where you are going, especially at row ends, on roads, and around trees.
6. Do not permit others to ride.
7. Operate the machine smoothly - no jerky turns, starts, or stops.
8. Hitch only to the drawbar and hitch points recommended by machine manufacturers.
9. When machine is stopped, set brakes securely and use park lock if available.

Child Labor Under 16 Years Old

Some regulations specify that no one under the age of 16 may operate power machinery. It is your responsibility to know what these regulations are in your own area or situation. (Refer to U.S. Dept. of Labor, Employment Standard Administration, Wage & Home Division, Child Labor Bulletin # 102).

SECTION 3

OPERATING PROCEDURES

Your attachment may arrive from the factory strapped to a wood pallet and requires no final assembly. However, **the crumber linkage bolts need loosened to allow movement.** (They are tightened for transportation.

Use a steel band cutting tool to remove the steel straps.

⚠ CAUTION

Shipping straps are under great tension, and could lash out uncontrollably when cut causing injuries to your body or bystanders. Keep bystanders away and wear safety glasses and gloves while removing the steel straps.

3.1 HOW TO CONNECT ATTACHMENT

GENERAL ATTACHMENT METHOD

Refer to your machine operator's manual for specific instructions on how to connect and disconnect your attachment.

This attachment method refers specifically to skid steers. For all other attachment instructions, refer to the Original Equipment Manufacturer (OEM) for instructions.

1. Ensure the hydraulic lines are clear from the front side of the attachment bracket and that the levers on the skid steer Quick Attach Coupler are in the unlocked position.
2. Tilt the skid steer loader Quick Attach Coupler slightly down and drive forward to the rear of the trencher attachment until the top edge of the Quick Attach Coupler hooks under the lip of the attachment bracket. See figure 3.1a below.
3. Slightly tilt the skid steer Quick Attach Coupler upward until the trencher attachment bracket is flat against the skid steer Quick Attach Coupler. See figure 3.1a below.

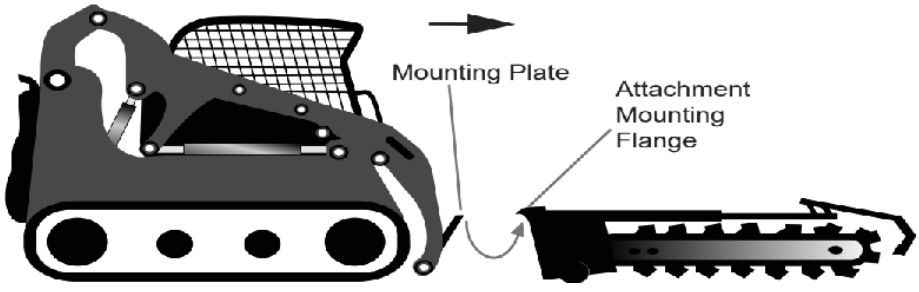
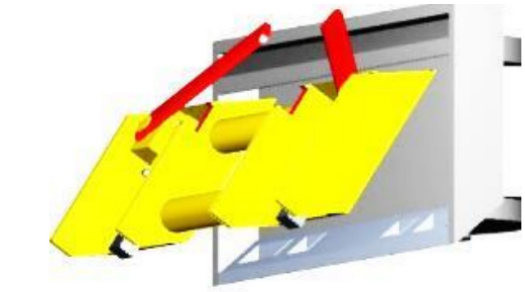
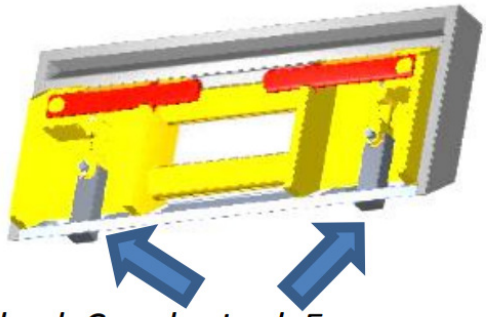


FIGURE 3.1A – QUICK ATTACH COUPLER LOCKED TO ATTACHMENT

4. Activate your skid steer's lever lock switch to lock the pins into the attachment bracket. If your skid steer does not have this switch, manually lock the pins as shown in Figure 3.1b below.



Connecting Coupler to Attachment



Check Coupler Lock Engagement

FIGURE 3.1B QUICK ATTACH COUPLER LOCKED TO ATTACHMENT BRACKET

⚠WARNING

To avoid serious injury or death, ensure locking pins fully extend through the slots on the attachment bracket and that levers are down in the locked position to prevent attachment from detaching from skid steer.

NOTICE

To keep contaminants from entering the hydraulic system, use a clean cloth to wipe away dirt and grease from the hydraulic couplers.

5. Connect the attachment hydraulic hoses to the auxiliary supply couplers located on your skid steer loader lift arm.

NOTICE

Check that hydraulic hoses are locked into the machine's couplers with the preferred output auxiliary port corresponding to the correct input line on the attachment before use. Check the hose routing through the full range of intended motion before operating attachment. It is the responsibility of the owner/operator to make sure the hoses are routed correctly and are not pinched.

3.2 HOW TO DISCONNECT ATTACHMENT

DISCONNECTING ATTACHMENT

1. Turn off auxiliary hydraulic circuit; relieve hydraulic pressure by moving the control levers back and forth or using hydraulic relief valve (if applicable).
2. Park machine on a flat and level surface then lower the attachment to the ground.
3. Set parking brake and disengage lock pins using the lock lever switch (if installed skip #6).
4. Turn off machine engine.
5. Disconnect hydraulic hoses and connect together or install dust caps to prevent contaminants from entering the hydraulic system. Store hydraulic hoses off the ground.
6. Pull latch handles to disengage lock pins.
7. Re-enter cab and start machine engine.
8. Tilt mounting coupler forward until Quick Attach Coupler is free from mounting bracket.
9. Drive machine backward to clear attachment.

3.3 CONTROLS

ATTACHMENT CONTROLS

Your trencher attachment is designed to run off the host machine's auxiliary hydraulic system, and is activated and deactivated by a control in the operator's cab. The height and tilt functions of your attachment are operated with the control handles or pedals in the cab. Consult your machine operator's manual for instructions regarding these functions.

HYDRAULIC FLOW REQUIREMENTS

When operating this attachment, set the machine engine RPM to a speed that will produce the required auxiliary flow. Your machine dealer can measure the flow available on your machine and recommend a throttle or auxiliary flow setting that is compatible with this attachment.

NOTICE

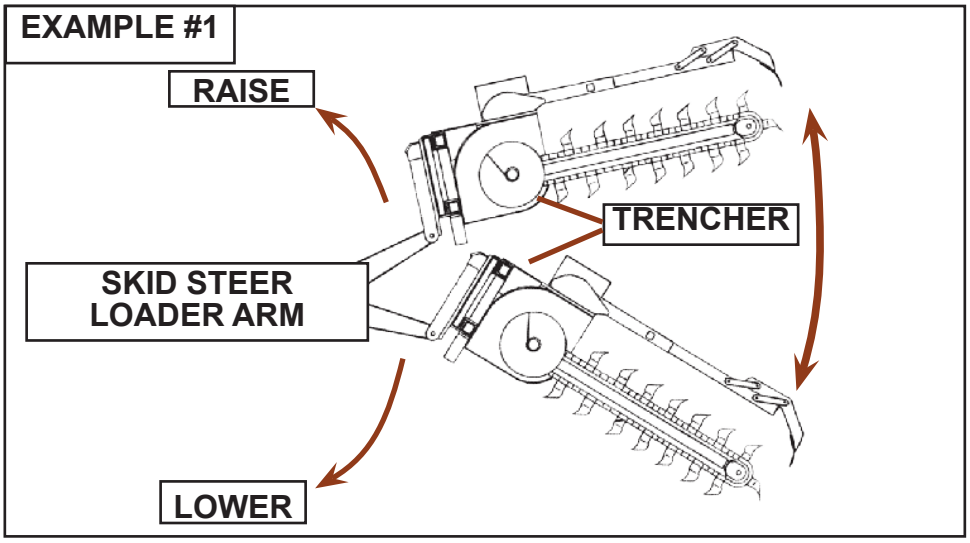
DO NOT EXCEED the designated flow rate (GPM) as damage to hydraulic components can occur.

RAISING AND LOWERING THE TRENCHER

Raise and lower the machine arms to raise and lower the trencher attachment. *See Example 1.*

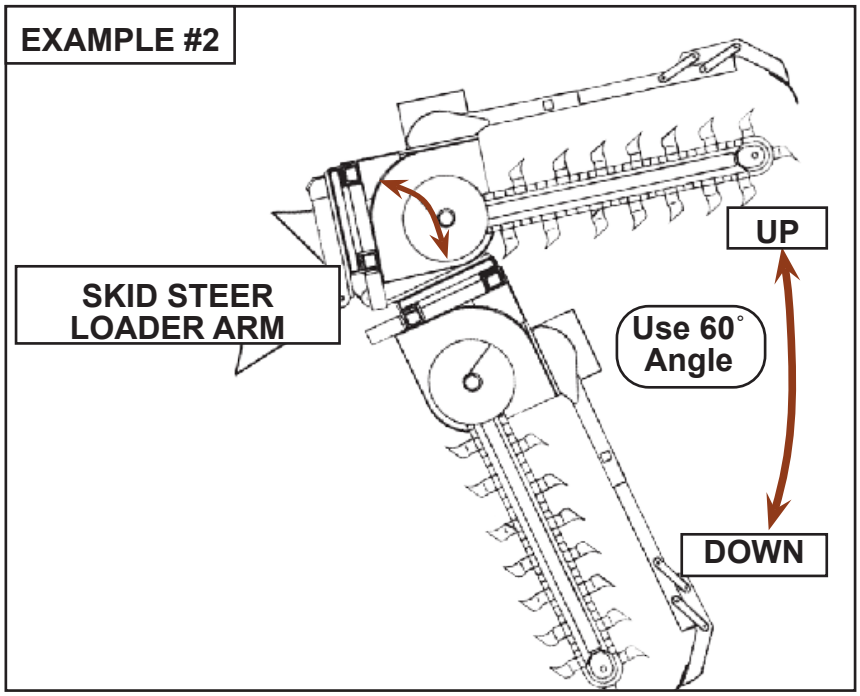
⚠WARNING

Remember, contact with electrical lines could cause serious injury or death. Remain alert to overhead power or telephone lines, tree limbs, etc. in which the raised trencher could come in contact.



TILTING THE TRENCHER

The machine controls can be used to tilt the attachment plate back or forward which will tilt the trencher unit up and down. For general trenching as measured from ground level, we recommend a 60˚ digging angle. *See Example 2.*



3.4 LEARNING YOUR ATTACHMENT

⚠WARNING Never use this attachment to push, pull, or lift any objects or attach ropes, chains, etc to the unit, as it was made for trenching only.

1. Before using this attachment, make sure you are knowledgeable and comfortable with the operation of the auxiliary hydraulic control as outlined in previous sections of this manual and in the machine's operator's manual.

2. When operating this attachment, set the machine throttle at a speed or auxiliary flow setting that will produce the required flow. If the machine is equipped with a foot throttle, use it to control engine speed and power being delivered to the attachment. Refer to your machine manual or call your local machine dealer for additional help if necessary.

3. Learn what the attachment looks like in a level position when you are seated in the machine. This will help you when operating the attachment.

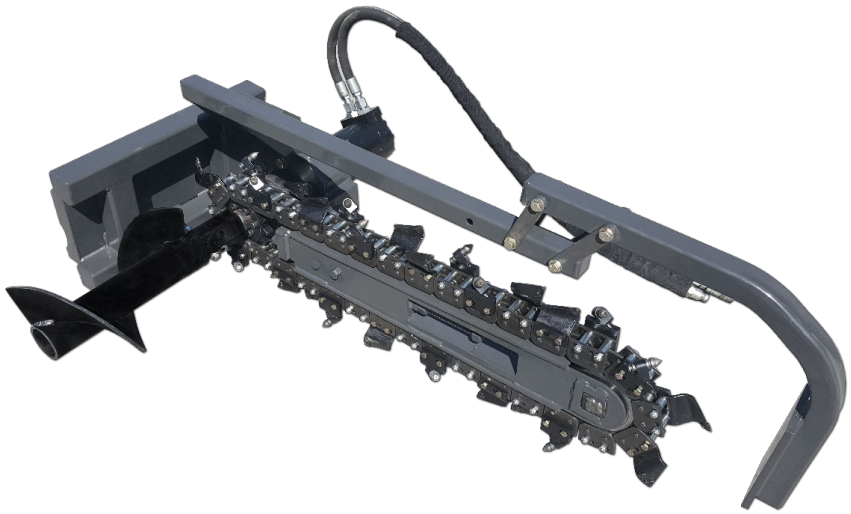
4. The correct ground speed while using this attachment depends on the application and condition and can usually be monitored by sight, sound, and feel and depends on the material density.

5. Note that if the hydraulic motor is bogging down because of load on the attachment, it will be necessary to decrease the load until the hydraulic motor's power can overcome the material load on the attachment.

NOTICE

The Mini Trencher will operate the same way as the full size trencher.

All Safety Precautions and Instructions Apply.



3.5 BEFORE USING YOUR ATTACHMENT

DANGER

ALWAYS contact 811, the “Digger’s Hotline” to identify underground utilities to avoid an accident that could result in Death or Serious Injury!

WARNING

EXPOSURE to crystalline silica dust along with other hazardous dusts may cause serious or fatal respiratory disease. It is recommended to use dust suppression, dust collection and if necessary personal protective equipment during the operation of any attachment that may cause a high level of dust.

1. Inspect the area to be worked and make sure it is free of any buried utilities, rocks, fence posts, or any other hazards or objects that you do not want to move.
2. Observe overhead electrical and other utility lines. Be sure equipment will clear them.
3. Determine a safe and efficient pattern before the start of the job.



3.6 OPERATING TIPS

WARNING

Never operate this attachment when bystanders are within 25 feet of your work area to avoid an accident that could result in serious injury or death if struck by the trencher during operation.

1. Block off area from bystanders, livestock, etc. Be alert for bystanders, and stop operation if bystanders or livestock enter the work area.
2. Operate the attachment only from the Operator’s Cab.
3. Never suddenly drop a boom with a rapidly moving digging chain on the ground. The force of the trencher may cause the host machine to move suddenly and unexpectedly.
4. Use caution when operating on slopes. The natural vibration will cause the unit to creep sideways downhill.
5. Do not adjust relief valve settings on the host machine. Incorrect valve settings could result in equipment damage and/or personal injury.
6. An operator must not use drugs or alcohol, which can change his or her alertness or coordination. An operator taking prescription or over-the-counter drugs should seek medical advice on whether or not he or she can safely operate equipment.
7. Before exiting the host machine, lower the unit to the ground, apply the brakes and turn off the host machine’s engine.
8. Do not use the trencher crumber bar or chain as a step when climbing in and out of the machine.

3.7 DIGGING PREPARATION

⚠ DANGER

ALWAYS contact 811, the “Digger’s Hotline” to identify underground utilities to avoid an accident that could result in Death or Serious Injury!



ALWAYS be aware of your surroundings and pay attention to obstacles and terrain around you.

You must notify utility companies of your intent to dig or trench by calling 811 or making an online request with your state’s 811 center a few days prior to digging or trenching. Visit: https://call811.com/811-In-Your-State to connect to your state’s 811 center.

811®

Know what’s **below.**
Call before you dig.

Please refer to our "Hydraulic Fluid and Oil Statement" on Page 5 for gear oil or hydraulic fluid instructions.

NOTICE

Before operating your attachment, check the hydraulic fluid level in the machine and add manufacturer recommended fluid if necessary.

Verify that hydraulic hoses are securely locked to the machine's hydraulic couplers before starting the attachment.

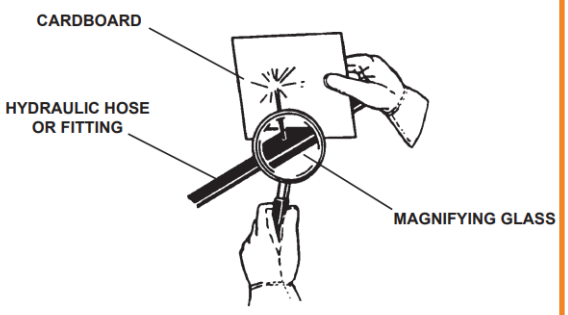
⚠ CAUTION

Remember to loosen the crumber linkage bolts before use to allow movement & prevent damage. (The bolts are tightened for transportation and MUST be loosened.)

1. Set machine engine RPM to just above idle and flip the auxiliary hydraulic switch to the ON position.
2. Raise the attachment 12 inches off the ground.
3. Operate the trencher both directions, pausing in between each change. Do this several times to eliminate any air in the circuit.
4. Return the trencher attachment to the level position and set the trencher on the ground.
5. Set the parking brake, then shut off machine engine and exit the cab.
6. Check the hydraulic fluid level in the machine, add manufacturer recommended fluid if necessary.

⚠ WARNING

To avoid serious injury by hydraulic fluid injection into your skin, never use your hand or other body parts to locate a hydraulic leak. Detect leaks with a piece of wood or cardboard. Flesh injected with Hydraulic fluid may develop gangrene or other permanent disabilities.



3.9 OPERATING INSTRUCTIONS

DANGER

LOWER OR SUPPORT RAISED EQUIPMENT: DO NOT work under raised booms without supporting them. Do not use support material made of concrete blocks, logs, buckets, barrels, or any other material that could suddenly collapse or shift positions. Lower booms to ground level before leaving the operator's cab or working on the attachment.

WARNING

ALWAYS release the hydraulic pressure prior to disconnecting any part of the hydraulic circuit.

The Trencher was designed to dig holes and trenches up to the depth and width of your digging chain. Any other use in Not Recommended.

WARNING

ONLY operate the trencher when seated at the machine controls.

CAUTION

ALWAYS use a crumber assembly on the trencher.

PREPARING THE SITE

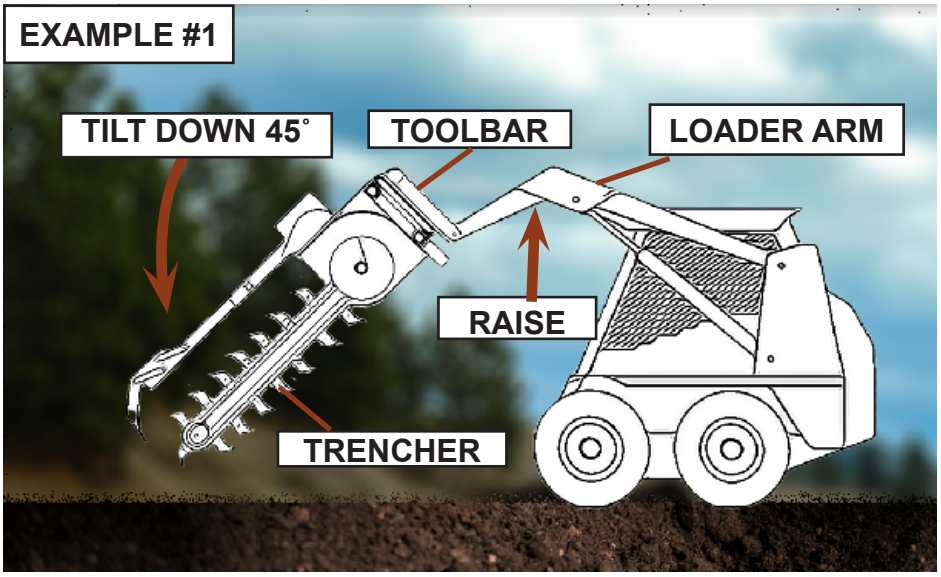
1. Attach and secure the trencher to the machine.
2. Plan out the job and inspect the job site for any potential hazards in the area.
3. Ensure you are confident and fully familiar with operating both the machine and the attachment. Review the manual and complete the Safety Acknowledgment Form by signing off.
4. CAUTION: Check the Trenching area for hidden utility lines BEFORE operating the trencher.
5. Mark off the area to be trenched with marking paint, chalk, or string and stakes. Block off the area from bystanders.
6. Familiarize yourself with the trenching requirements for the task and ensure that the correct digging chain, sprockets, and crumber bars are properly installed for the job.

STARTING THE TRENCHER

7. Position the machine so that the trencher boom is aligned directly over the center of the trench layout.
8. NOTE: The trencher will need to cut approximately 4 feet before reaching the desired depth, so plan accordingly and begin trenching about 4 feet behind the point where you want the trench to start.
9. NOTICE: The machine is driven in REVERSE when trenching. You cannot trench while driving the machine forward.
10. Raise the trencher using the machine's loader arms and tilt it to a 45˚ angle (refer to Example 1 on the next page). Position the trencher so that the digging teeth are just above ground level.
11. Set the machine throttle to half speed. Engage the machine's auxiliary hydraulic system to start the digging chain.
12. If any utility lines are damaged, shut off the equipment at once and contact the affected utility immediately.

STARTING THE TRENCHER CONT.

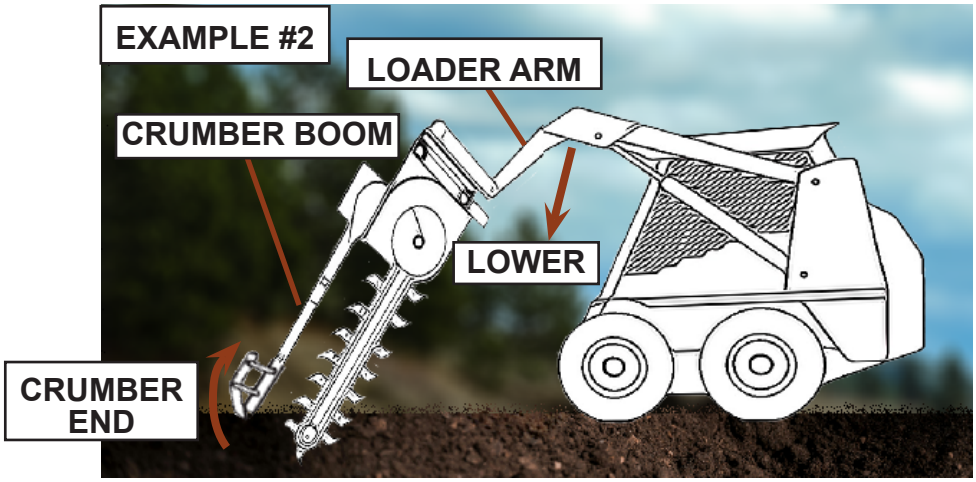
⚠ CAUTION When lowering the moving digging chain to the ground, the force of the teeth engaging the soil may cause the trencher to suddenly LURCH FORWARD. Be prepared for this and ensure the machine's BRAKE IS SET to help counteract the force.



13. To start trenching, lower the trencher with the host machine's arms to slowly lower the digging chain into the ground and increase to full throttle.

14. Continue lowering the trencher until the crumber end rolls all the way back on the crumber bar. *See Example 2*

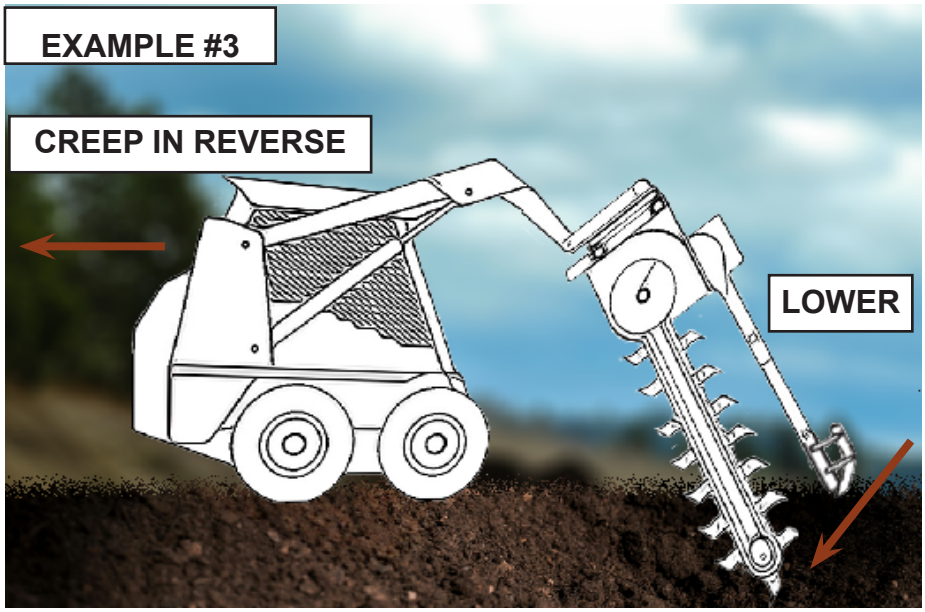
15. NOTICE: Once the crumber end has fully rolled back, do not lower the trencher any further without first moving the host machine in reverse. Failing to do so may cause the crumber boom to bend, which is NOT COVERED by the warranty.



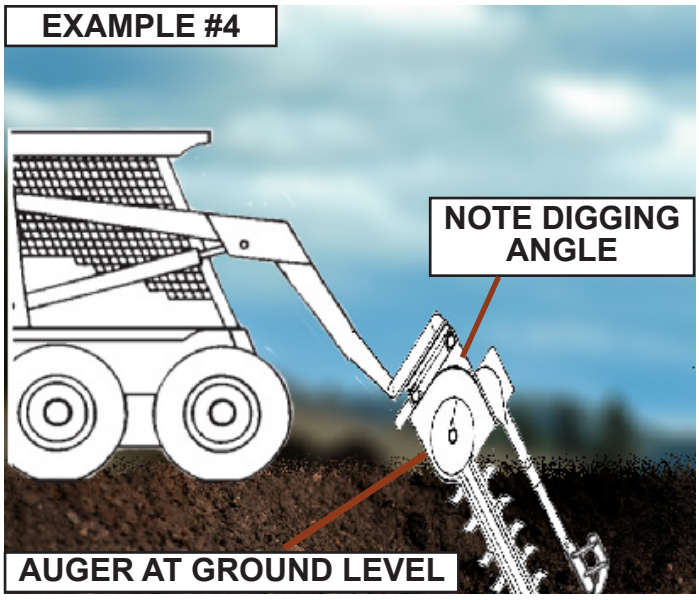
16. Once the crumber end has fully rolled back, slowly REVERSE the machine while continuing to lower the loader arms. As you approach the desired depth, stop lowering the boom and tilt the trencher to a 60˚ to 65˚ angle, which is ideal for general trenching *See Example 3 on the next page.*

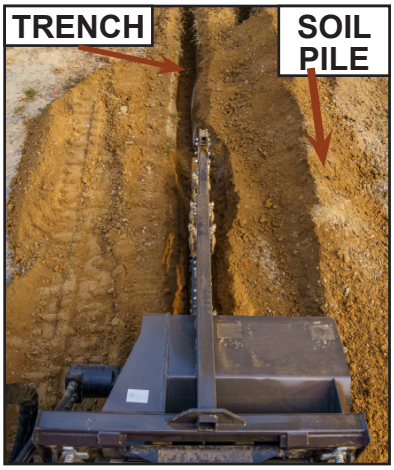
⚠WARNING

Remain alert to what is happening around you! Look behind you before reversing the machine to trench and be aware of people or things in the path of the machine. Also remain alert to drop-offs or soft ground which could upset the machine causing serious injuries or death.



17. When trenching, consider where the soil will be displaced. Position the trencher so that the side auger is at ground level, allowing it to move the soil away from the trench. *See Example 4*



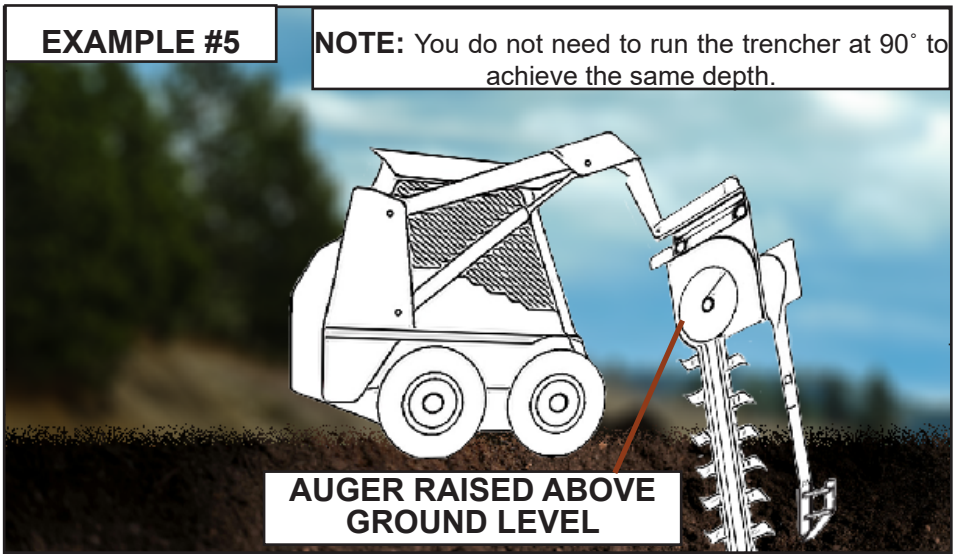


18. Raise the trencher so the auger rides above ground level, placing the soil beside the trench. The higher the auger, the closer to the trench the soil will be placed. Running the auger 3” to 6” off the ground may require less power to operate the digging chain, potentially increasing the trenching efficiency and the number of feet produced per hour.

19. The higher the auger, the more vertical you will have to tilt the trencher to achieve the same trench depth. *See Example 5 on the next page.*

EXAMPLE #5

NOTE: You do not need to run the trencher at 90˚ to achieve the same depth.



20. Once the desired trench depth is reached, increase the skid steer throttle to the desired engine RPM.

21. Continue to slowly reverse the machine while staying alert to your surroundings

NOTICE

STOP THE TRENCHER if the hydraulic fluid temperature becomes too hot and allow the hydraulic fluid to cool.

22. Monitor the machine hydraulic fluid pressure and temperature gages.

23. If the hydraulic fluid pressure or temperature becomes too high, reduce the machine's creeping speed to lighten the load on the auxiliary hydraulic system

24. NOTICE: The trencher may stall if it is running at a speed faster than the auxiliary system can handle or if too much down pressure is applied.

STALLING THE TRENCHER

25. NOTICE: Repeat stalling in a short period of time, can cause the hydraulic fluid temperature to rise excessively, potentially leading to pump failure. Avoid attempting to trench too quickly or for extended periods without giving the system time to cool.

GRADUAL TURNS WHILE TRENCHING

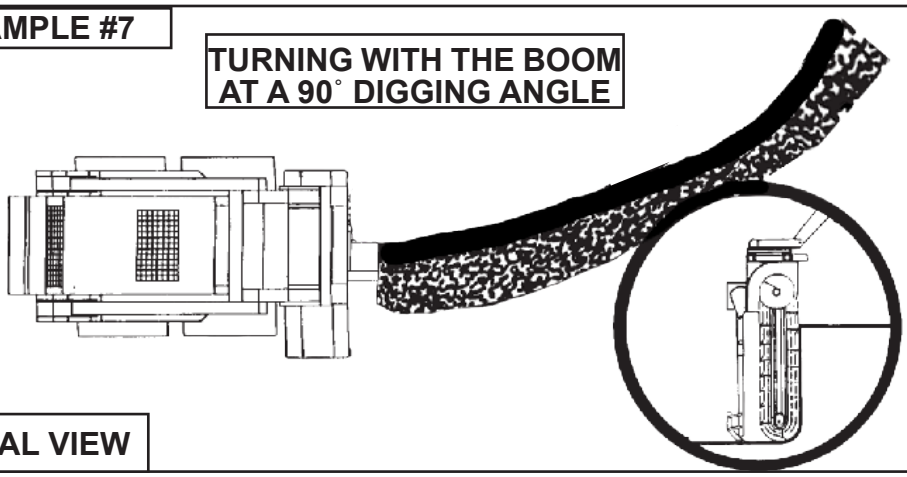
26. If the trencher stalls while digging, move the host machine slightly forward to free the trencher. You can also try reversing the direction using the auxiliary hydraulic controls to free the digging chain

The greater the angle of the trencher boom to the ground level, the sharper the turn that can be trenched. Also, sharper turns are possible when the boom length is short. *See Examples 7 & 8*

3.9 OPERATING INSTRUCTIONS CONT.

EXAMPLE #7

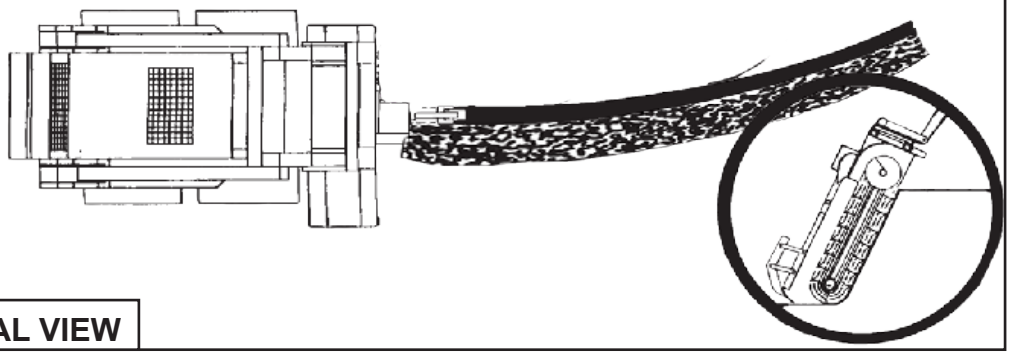
TURNING WITH THE BOOM AT A 90˚ DIGGING ANGLE



AERIAL VIEW

EXAMPLE #8

TURNING WITH THE BOOM AT A 60˚ DIGGING ANGLE



AERIAL VIEW

REMEMBER: As the boom angle increases, the unit will need to be raised higher out of the trench to maintain a consistent trench depth. Shallow boom angles can severely limit the machine's turning ability.

⚠WARNING

Turning too sharply while trenching will cause the trencher to jam in the trench and stall, leading to excessively high hydraulic fluid temperatures It may also risk bending the trencher boom.

Exercise caution when turning and proceed carefully.

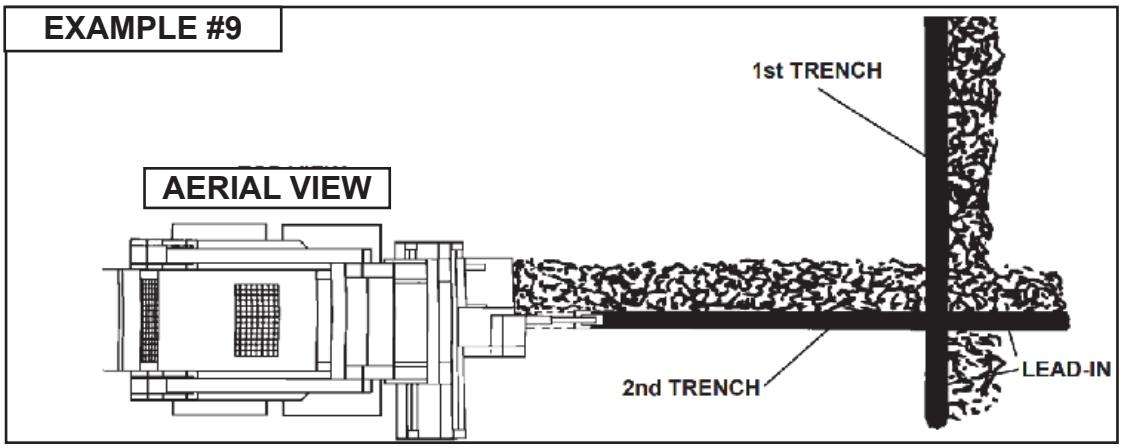
MAKING SHARP TURNS

To make sharp turns and 90 degree corners, two trenches have to be dug.

The first trench should be dug as normal, while the second trench will require repositioning of the machine and attachment.

Trench 2: Reposition the trencher and boom at the appropriate angle and follow the guidelines previously stated when starting a trench. Remember, additional space is needed in front of the trencher to allow it to reach the desired trench depth. *See Example 9 on the next page.*

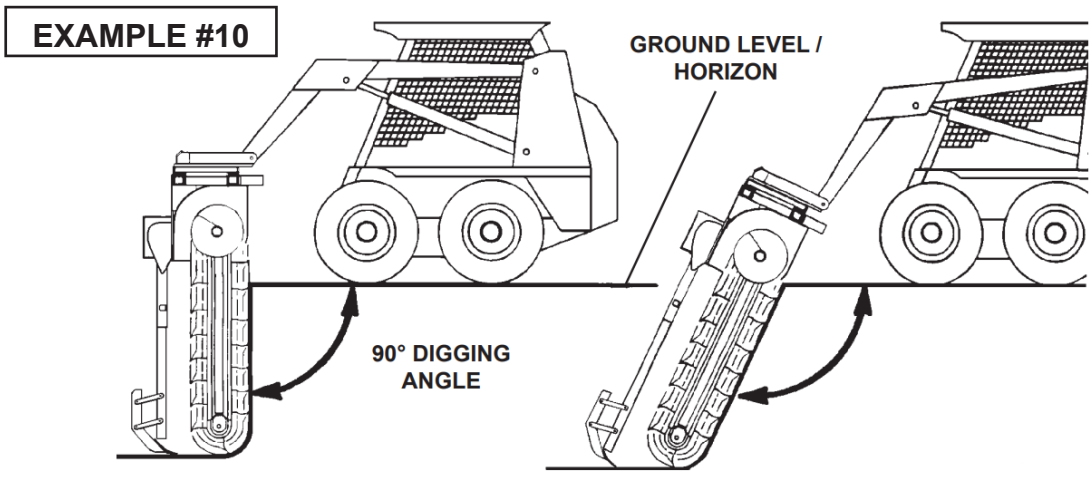
MAKING SHARP TURNS CONT.



RECOMMENDED DIGGING ANGLES

90˚ Digging Angle: This angle is recommended for rock and frost conditions, as well as when trenching sharp corners. It helps reduce excessive side pressure on the boom and digging chain when navigating corners

60-65˚ Digging Angle: This angle is recommended for Normal Trenching as it minimizes carry-over and a cleaner trench bottom.



⚠WARNING To avoid a roll over accident which may result in serious injury or death, DO NOT operate the machine and attachment on uneven terrain or sloped surface with the attachment raised more than 12” off the ground.

3.10 BASIC DIGGING TECHNIQUE

TRENCHING WITHOUT THE CRUMBER

⚠WARNING

The crumber bar and crumber shoe are crucial for YOUR SAFETY! Only in rare cases should they be removed, and EXTREME CAUTION must be taken in such instances. Reinstall the crumber bar and crumber shoe as soon as possible.

The trencher can be used to dig under obstacles such as sidewalks with the following instructions:

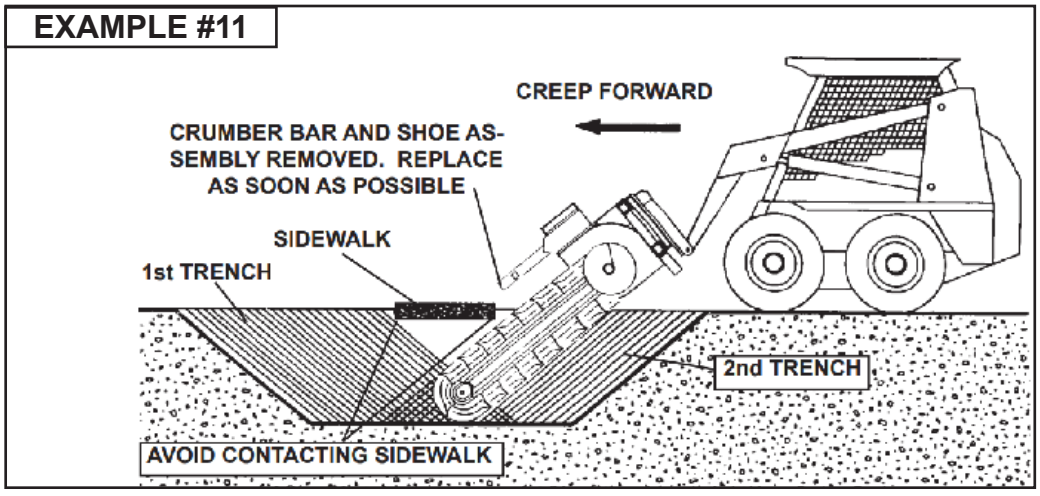
1. Remove the crumber shoe and bar assembly, then begin the trench as previously instructed, but within one foot of the sidewalk. With the crumber bar and shoe removed, the trench can be dug vertically without the need for lead-in space.

2. Once the desired depth is reached, tilt the trencher to a 60˚ angle or less while digging. Then, carefully creep the host machine FORWARD to trench under the sidewalk. Take extra care to avoid allowing the digging teeth to contact the concrete or asphalt.

3. Once the maximum extension is reached without damaging the sidewalk, remove the trencher by carefully reversing the host machine until the trencher clears the sidewalk.

4. Move the host machine to the other side of the sidewalk.

5. Carefully line the trencher up to the previous trench and proceed to trench a second trench as described above. *See Example 11.*



ENDING A TRENCH

When the trench is finished, remember to keep the trencher as low to the ground as is safe and practical. The lower the trencher position, the more stable the host machine will be.

SHUT OFF THE TRENCHER BEFORE MOVING AWAY FROM THE TRENCH.

NEVER transport the trencher while the digging chain is moving!

SECTION 4

MAINTENANCE PROCEDURES

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

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

WELDING REPAIRS

Welding on attachments must be performed by certified welders who have requested and obtained written approval from an authorized representative of the manufacturer before welding begins.

All authorized welding repairs must be performed by qualified welders in accordance to the American Welding Society (AWS) standards. Welding procedures performed by unqualified welders may deem this attachment unsafe to operate and **VOID THE WARRANTY**!.

⚠WARNING **Only use genuine Original Equipment Manufacturer (OEM) replacement parts on this attachment. We will not be liable for any damages or injuries caused by the use of after market use parts on this attachment.**

NOTICE

Improper maintenance or modifications to the design or performance of this attachment will void the warranty. ONLY use genuine OEM replacement parts on this attachment.

Obey the following safety instructions when servicing or repairing this attachment.

⚠ **Wear proper Personal Protective Equipment (PPE) while working on this attachment, which may include safety glasses, hard hats, steel toe boots, gloves, etc.**

⚠ **If servicing is performed while the attachment is attached to the machine, turn engine off, set parking brake and chock wheels to prevent machine from moving.**

⚠ **Ensure all jack stands, lifts and hoists are in good working condition and have the rated load capacity to support the load.**

⚠ **Wear a welding helmet when welding to protect your eyes, face and neck from flash burn, ultra-violet radiation and heat.**

⚠ **Do not wear loose clothing or accessories that can catch in moving parts.**

4.0 MAINTENANCE OVERVIEW CONT.

⚠ **Only perform service work in a well-lit area.**

⚠ **Long hair should be covered and secured so it does not become entangled.**

⚠ **Allow the attachment to cool down before servicing this machine.**

⚠ **NEVER work under an unsupported attachment.**

4.1 MAINTENANCE SCHEDULE

This **Trencher** will provide years of dependable service if routine maintenance procedures are performed. The maintenance tasks listed below are based on normal operating conditions. More frequent maintenance may be necessary with intense use or when operating in adverse environmental conditions.

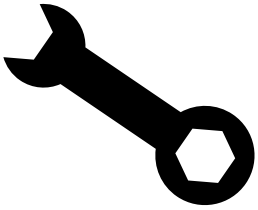
MAINTENANCE TASK	BEFORE EACH USE	WEEKLY	YEARLY
Check host machine's hydraulic fluid level. Add fluid as necessary. *Please refer to our "Hydraulic Fluid and Oil Statement" on Page 5 for gear oil or hydraulic fluid instructions.*	X		
Check that all fasteners (nuts, bolts, washers, pins, keepers) are in place. Tighten as necessary.	X		
Check teeth for damage and replace as needed.	X		
Check Condition and Tension of Chain. Replace or adjust tension as necessary.	X		
Inspect and replace any worn, torn, or missing safety decals.	X		
Inspect hydraulic hoses and connectors for damage or leakage. Repair or replace hydraulic items as needed.	X		
Lubricate the chain with spray-on extreme duty chain lube	X		
Check for bearing house oil leaks. Repair and add oil as necessary. ***Change oil after every 50 hours of first time use, then every 1,000 hrs or yearly.**	X		
Wash Trencher Attachment.		X	
Check attachment for major scratches & dings. Sand and repaint these areas to prevent rust damage. ***Use formulated for farm equipment which can be found at your local hardware store.**			X

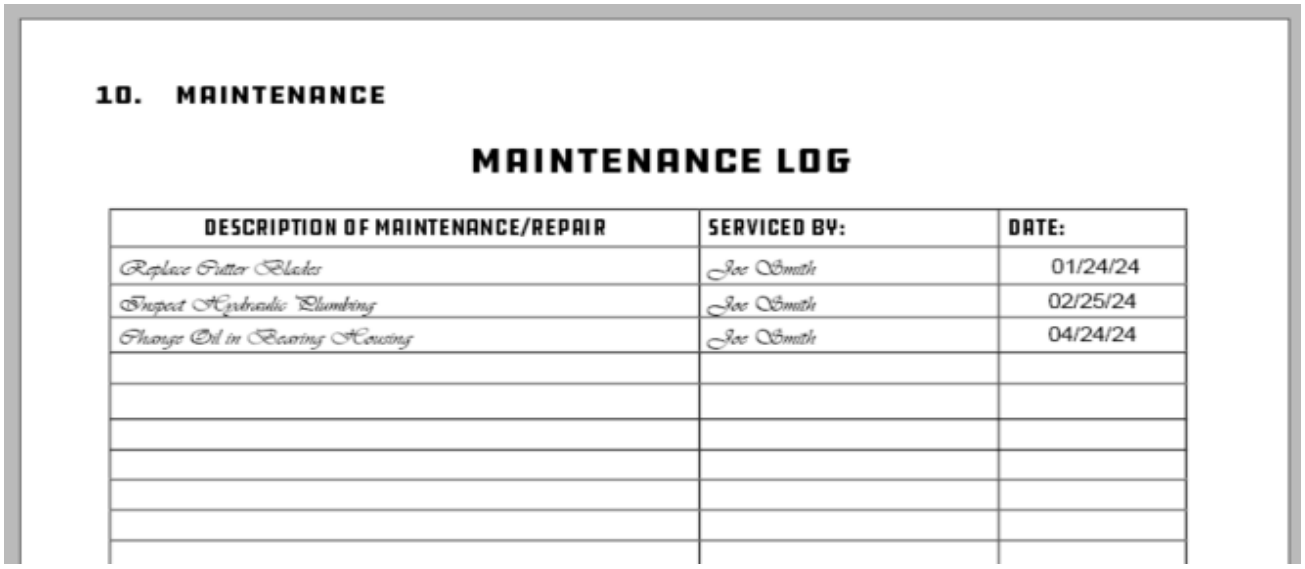
4.2 MAINTENANCE LOG INSTRUCTIONS

Document all maintenance and service activities performed on this attachment using the maintenance log sheets included at the end of this manual.



MAINTENANCE LOG





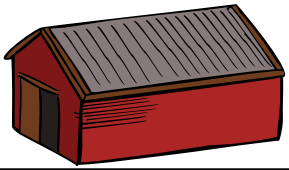
10. MAINTENANCE

MAINTENANCE LOG

DESCRIPTION OF MAINTENANCE/REPAIR	SERVICED BY:	DATE:
Replace Gutter Blades	Joe Smith	01/24/24
Inspect Hydraulic Plumbing	Joe Smith	02/25/24
Change Oil in Bearing Housing	Joe Smith	04/24/24

4.3 STORAGE TIPS

To get years of quality use out of your attachment, follow these tips when storing your attachment for the season:

	Ensure attachment is free of water, debris, dirt and grease.
	Store your attachment in a dry shed or garage.
	When storing your attachment for the season, cover with a weather proof tarp to protect it from the elements.

4.4 TORQUE SPECIFICATION TABLE AND INSTRUCTIONS

BOLT TORQUE INSTRUCTIONS

1. Apply and maintain proper torque on all bolts.
2. Use lubricated torque values when applying Loctite. **Do not grease or oil bolts.**
3. Wipe bolts clean and use Loctite 635 or equivalent before tightening bolts. May need curing activator.
4. Use a torque wrench to assure the proper amount of torque is being applied to the bolt.
5. **MUST CURE 72 HOURS BEFORE USE TO PREVENT LOOSENING OF BOLTS.**

TORQUE VALUES

SAE GRADE 8

	DRY lb.-ft.	LUBRICATED lb.-ft.
1/4”	12	9
5/16”	24	18
3/8”	45	35
1/2”	110	80
3/4”	380	280
7/8”	600	450
1”	910	680
1 1/4”	1820	1360
1 1/2”	3162	2688

4.5 TORQUE EQUIPMENT REQUIREMENTS

TOOLS & EQUIPMENT REQUIREMENTS

To complete the maintenance procedures described in this section, you may need the following tools:

- 1/2 inch drive breaker bar
- 3/4 inch impact socket
- 1/2 inch impact socket
- Tapping Hammer
- 1/2 inch drive torque wrench
- Nylon pry bar set
- Safety stands
- **Loctite 635 or Equivalent-MUST CURE 72 HRS**
- Lifting device (overhead crane hoist, forklift)



NOTE:

When removing bolts with Loctite, it will be necessary to apply localized heat of at least 250 degrees Celsius or to 482 degrees Fahrenheit to loosen bolts.

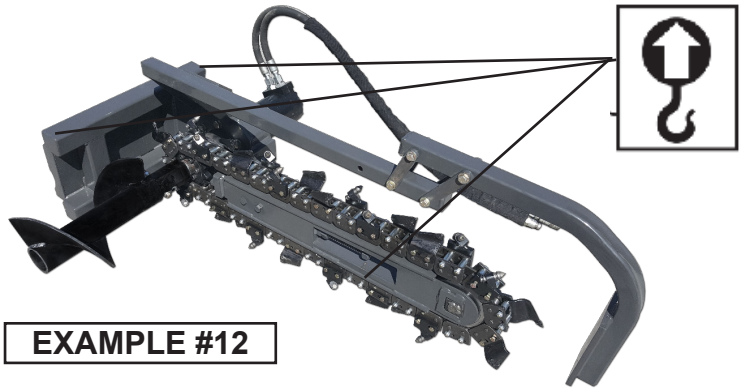
LOCTITE 635 TECHNICAL SPECIFICATIONS FOR BONDING, CURING, REMOVAL AND INSTALLATION CAN BE FOUND HERE: https://next.henkel-adhesives.com/

4.6 LIFTING POINTS

DANGER **LOWER OR SUPPORT RAISED EQUIPMENT:** DO NOT work under raised booms without supporting them. Do not use support material made of concrete blocks, logs, buckets, barrels, or any other material that could suddenly collapse or shift positions. Lower booms to ground level before leaving the operator's cab or working on the attachment.

NOTICE Use care when lifting the attachment as lifting improperly is unsafe and may cause damage to your attachment.

NEVER lift the attachment by the chain or crumber assembly.



EXAMPLE #12

WARNING

Only use lifting accessories (chains, slings, ropes, shackles and etc.) that are rated and capable of supporting the size and weight of the attachment. Secure all lifting accessories to prevent unintended disengagement. Failure to do so could result in the attachment falling and causing serious injuries or death.

1. Attach lifting accessories (chains, slings, ropes, shackles and etc.) at recommended lift points.
2. Bring lifting accessories together to a central lifting point.
3. Lift gradually, maintaining balance of the unit.

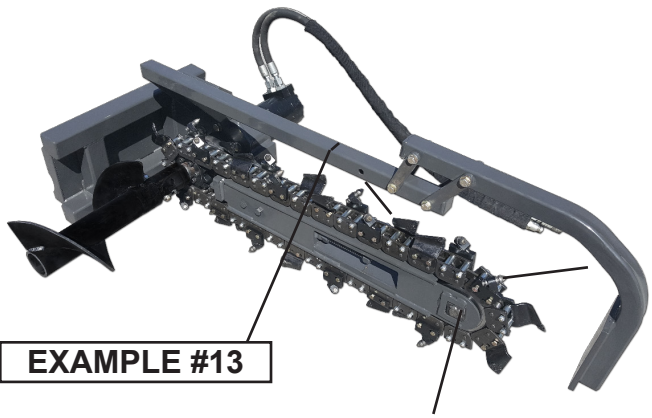
4.7 TIE DOWN POINTS

WARNING **DO NOT attach tie down accessories over chains or hoses..**

Identify the tie-down points before attempting to secure the attachment. Securing the attachment at other points is unsafe and may cause damage. Never tie down accessories over the chain or crumber assembly, or in a manner that could damage hoses or hydraulic components

WARNING

Failure to VERIFY that all tie down accessories are secure and capable of transporting the attachment, preventing disengagement or shifting, could result in injury or death!



EXAMPLE #13

NOTICE

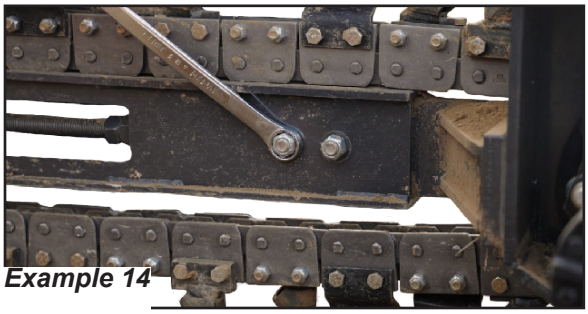
Make sure you do not place your tie down strap OVER the chain adjuster to prevent bending and damaging it.

4.8 CHAIN TENSIONING

Check that the digging chain has the correct tension before each use. Trencher arm should be in the horizontal position when checking the chain tension.

HOW TO ADJUST THE CHAIN TENSION:
1. Loosen boom tension lock hardware.

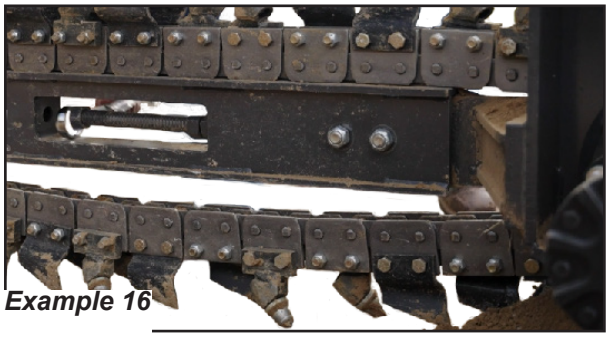
See Example 14


Example 14

2. Loosen the adjusting bolt jam nut. ***See Example 15***


Example 15

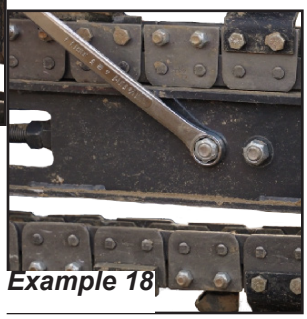
3. Turn the tensioning bolt clockwise until there is a 2-4 inch of sag between the chain and middle section of the boom. ***See Example 16***


Example 16

4. Tighten jam nut. ***See Example 17***


Example 17

5. Tighten nuts on outer boom section. ***See Example 18***


Example 18

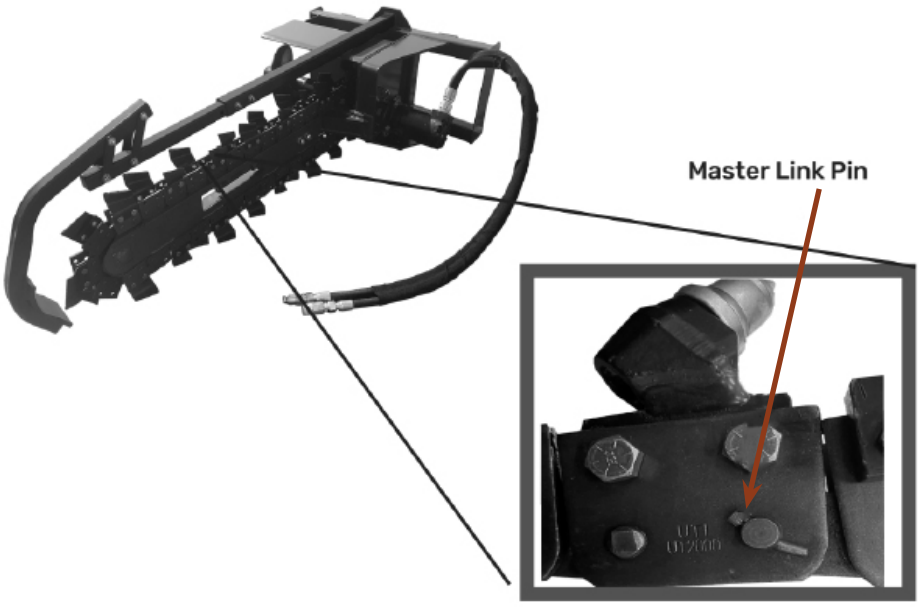
4.9 CHAIN REMOVAL-TWO PEOPLE ARE REQUIRED

⚠ CAUTION Chain contains sharp edges, are heavy and difficult to handle. Wear protective gloves and use proper lifting devices to position the chain so as to prevent a minor or serious injury.

With the trencher securely attached to the skid steer and resting on level ground with the host machine turned off:

1. Relieve the chain tension. (See Section 4.8 above for instructions.)
2. Rotate the chain so the master link pin can be accessed from both sides. *See Figure 17*
3. Secure a lifting strap to the chain to control it after removing the master link pin.
4. Remove master link pin. *See Example 19*
5. Raise the lifting strap to pull the chain off the boom.

Example 19



4.10 CHAIN INSTALLATION -TWO PEOPLE ARE REQUIRED

With the trencher securely attached to the skid steer and the host machine turned off:

1. Using a lift strap to assist, place the chain onto the nose roller and over the drive sprocket. The cutting edge of the teeth should be facing away from the backframe of the trencher on the top side of the trencher boom and opposite on the bottom side.
2. Wrap each end of the chain under the boom and join together using a master link pin.
3. Adjust the tension as detailed in Section 4.8.

4.11 LUBRICATING YOUR CHAIN

To ensure longevity and optimal performance, all moving parts of your chain must be properly lubricated. Failure to do so can lead to increased wear, breakdowns, unnecessary part replacements, and reduced efficiency. **Your chain should be lubricated every 8 hours.** Make sure to thoroughly clean the chain before using the **Extreme Duty Chain Lube** spray.

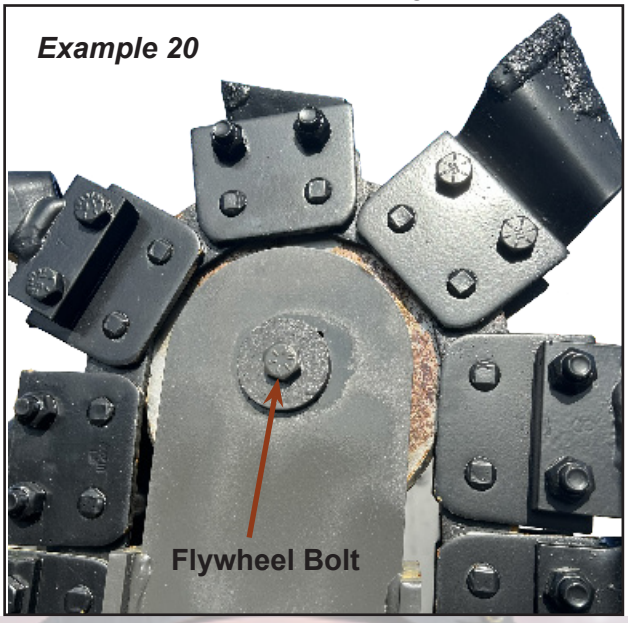
⚠ DANGER

ONLY service the attachment 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 machine.

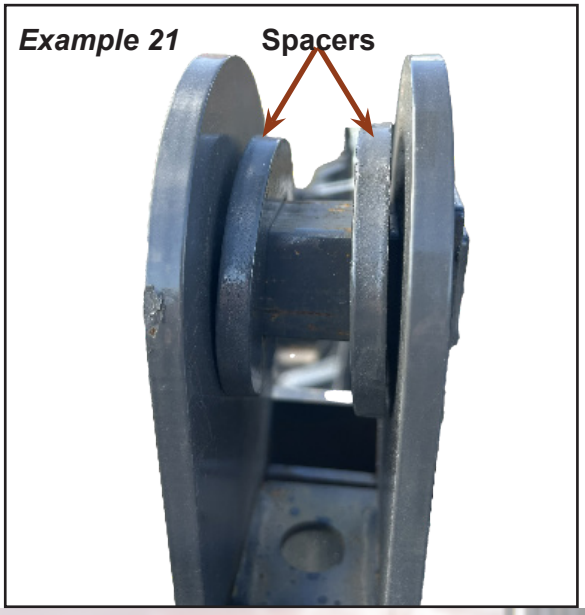
4.12 REPLACING YOUR TAIL WHEEL

1. Position the machine with the attachment slightly raised and arm locks in place.
2. Relieve the chain tension. (See Section 4.8 for instructions.)
3. Remove the chain. Two people are required. (See Section 4.9 for instructions.)
4. Using the appropriate wrench, remove the bolt on the tail wheel. See *Example 20*
5. Put the two spacers to the side.
6. Place the new tail wheel on the bar with the 2 spacers as shown in *Example 21*.
7. Torque the bolt to the proper specifications listed on page 32.
8. Replace the chain and tighten to the correct tension as listed in Section 4.8.

Example 20



Example 21



⚠ CAUTION

Use Extreme Caution when removing and reattaching the chain as it weighs in excess of 150 pounds. Improper handling can result in serious injury, including pinching, cuts, or the risk of amputating limbs or extremities.

SECTION 5

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Digging chain will not turn when the auxiliary hydraulics are activated.	1. Hydraulic hose Quick Disconnect couplers not properly connected.	1. Check and reconnect hose Quick Disconnect couplers.
	2. Auxiliary hydraulic system not functioning.	2. Contact machine dealer for diagnosis and repair..
	3. Chain tension too tight.	3. Loosen chain.
	4. Trencher is bound up with dirt, rocks, or other debris.	4. Clean debris from trencher boom and/or chain.
	5. Obstruction in ground.	5. Investigate and clear obstruction.
	6. Hydraulic motor is damaged or worn.	6. Repair or replace motor.
	7. Bearing housing is damaged or worn.	7. Repair or replace bearing housing.
Trencher chain falls off the boom.	1. Incorrect chain tension.	1. Inspect and adjust chain tension.
	2. Chain linkage or master link broken.	2. Repair or replace broken components.
	3. Trencher boom is bent or damaged.	3. Repair or replace trencher boom.
Trencher veers off in one direction.	1. Unbalanced digging teeth arrangement due to broken or missing teeth.	1. Repair or replace missing or broken teeth.
	2. Tail wheel or drive sprocket is worn	2. Replace tail wheel and drive sprocket.
Dirt is not expelled from the trench properly.	1. Missing or broken teeth.	1. Replace missing or broken chain components.
	2. Crumber arm linkage too tight and not clearing trench.	2. Loosen crumber arm linkage.

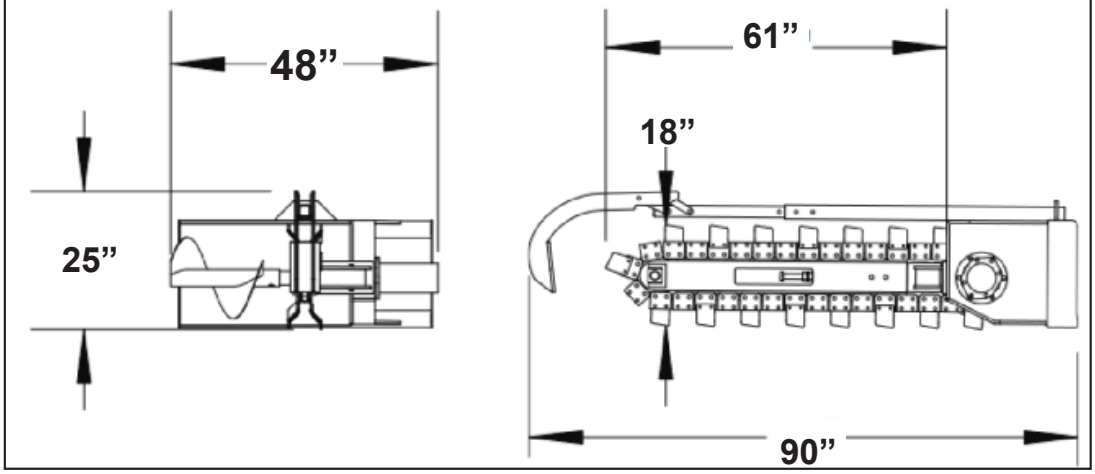
5.0 TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Trencher lacks power /speed.	1. Reverse travel speed is too fast. 2. Hydraulic system over heating. 3. Slow hydraulic flow due to leaking or damaged hydraulic hose. 4. Loose / broken digging chain. 5. Incorrect chain type for soil condition. 6. Chain not turning freely on boom. 7. Bearing housing damaged or worn. 8. Hydraulic motor is damaged or worn. 9. Auxiliary hydraulic flow setting or machine RPM too low.	1. Slow host machine's travel speed. 2. Check for low hydraulic fluid and inspect machine's auxiliary hydraulic system. 3. Repair or replace damaged hydraulic hose. 4. Tighten, repair or replace loose or broken chain components. 5. Replace chain with correct type for soil conditions. 6. Check chain tension, and check for dirt build-up on tail roller or drive sprocket. 7. Repair or replace bearing housing. 8. Repair or replace motor. 9. 10. Ensure proper auxiliary flow and/or increase machine RPM's.
Hydraulic fluid level goes down during operation.	1. Hydraulic motor and/or hose leak or leaks in machine's hydraulic system.	1. Investigate and repair leaks.
Gearbox or bearing housing leaking gear oil.	1. Wire or other debris wrapped around bottom of gearbox or bearing housing output flange damaging the seal. 2. Motor over-pressured by pinching hydraulic hoses or knocking hydraulic hoses off machine auxiliary ports with trees or other debris causing blown out shaft seal in motor and/or gearbox/bearing housing.	1.Avoid wire/mesh fencing, or any other type of objects which could wind around gearbox/bearing housing output flange and damage seal. 2. Avoid any debris contacting or hitting hoses and take care hoses are routed to avoid pinching or snagging. Make sure Quick Disconnects are locked once attached.

SECTION 6

SPECIFICATIONS

X-treme Trencher Specs

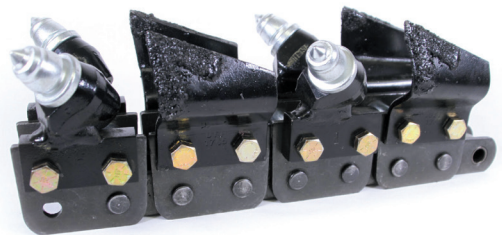


SPECIFICATIONS	X-TRENCH 36	X-TRENCH 48	MINI
Hydraulic Flow Options	14-20 GPM	20-30 GPM	6-12 GPM, 12-18 GPM, 18-30 GPM
Trencher Weight W/O Chain	668 lbs	708 lbs	474 lbs - 561 lbs
Digging Depth	36”	48”	36” or 48”
Chain Types	dirt, rock/frost, combo	dirt, rock/frost, combo	dirt, rock/frost, combo
Chain Widths	6”, 8”	6”, 8”	4”, 6”, 8”
Crumber Bar	Removable	Removable	Removable



Rock Frost

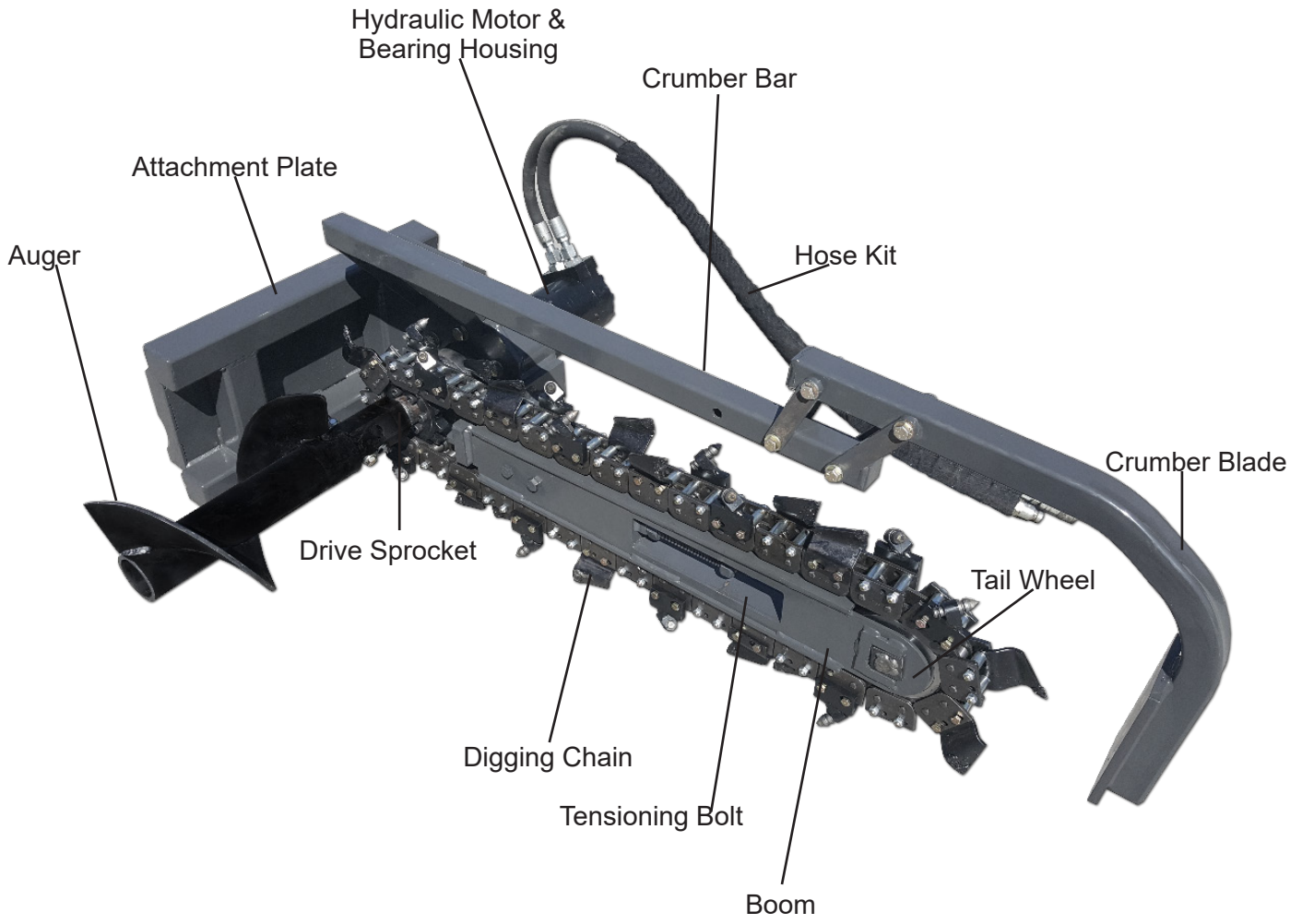
Combo





Dirt

6.1 TRENCHER NOMENCLATURE



SECTION 7

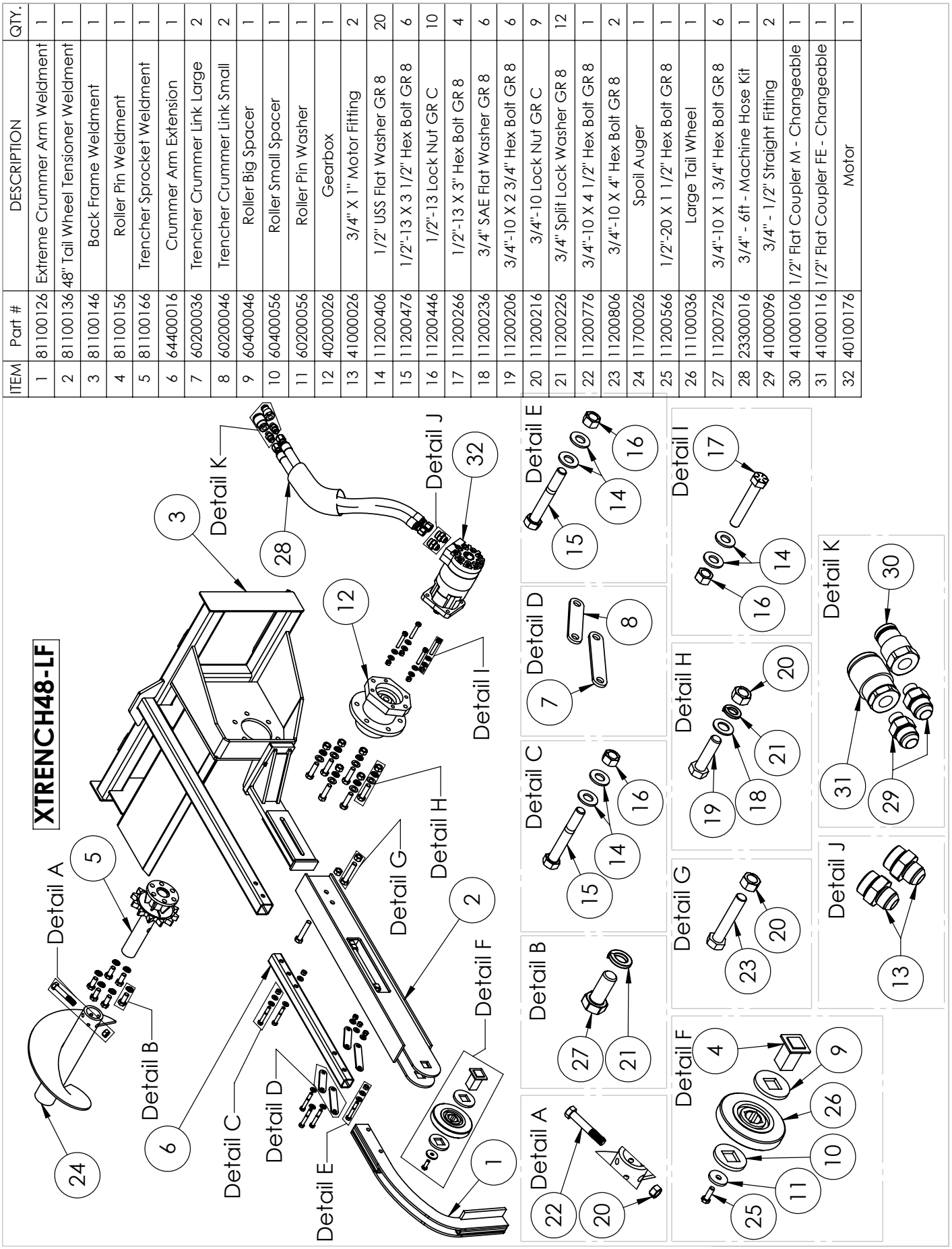
PARTS INFORMATION

Factory OEM parts specifically designed for your implement are readily available.

For hassle free service and to ensure you receive the correct parts for your implement, please provide your dealer with the following information:

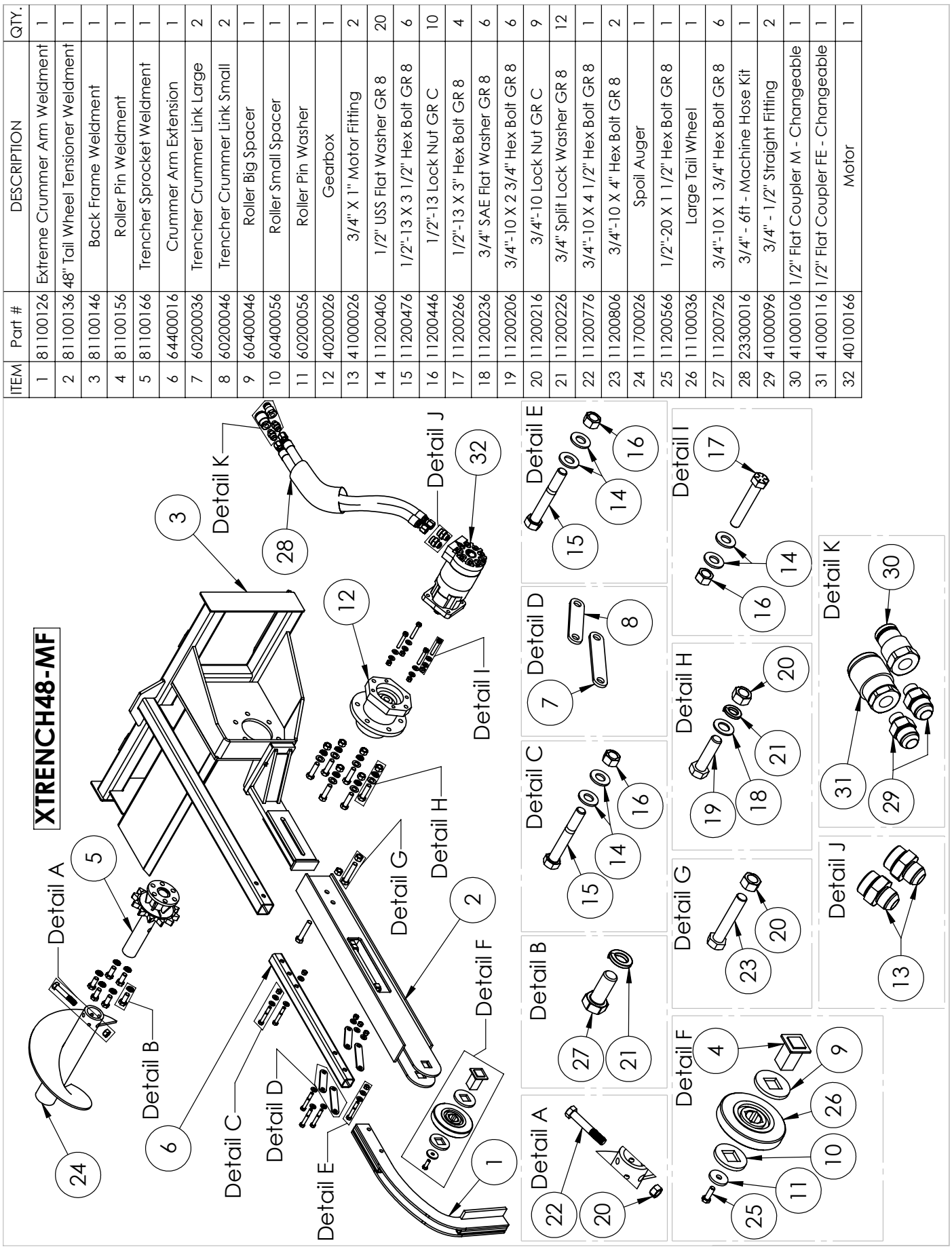
Model Number	
Serial Number	
GPM Requirements	
Date of Owners Manual (Bottom Left Corner of Cover Page)	
Parts Diagram Page Number	
Part Description	
Reference #	
Quantity Desired	
Ship To Information	
Bill To / Payment Information	

7.1 48" LOW FLOW TRENCHER PARTS DIAGRAM



ITEM	Part #	DESCRIPTION	QTY.
1	81100126	Extreme Crummer Arm Weldment	1
2	81100136	48" Tail Wheel Tensioner Weldment	1
3	81100146	Back Frame Weldment	1
4	81100156	Roller Pin Weldment	1
5	81100166	Trencher Sprocket Weldment	1
6	64400016	Crummer Arm Extension	1
7	60200036	Trencher Crummer Link Large	2
8	60200046	Trencher Crummer Link Small	2
9	60400046	Roller Big Spacer	1
10	60400056	Roller Small Spacer	1
11	60200056	Roller Pin Washer	1
12	40200026	Gearbox	1
13	41000026	3/4" X 1" Motor Fitting	2
14	11200406	1/2" USS Flat Washer GR 8	20
15	11200476	1/2"-13 X 3 1/2" Hex Bolt GR 8	6
16	11200446	1/2"-13 Lock Nut GR C	10
17	11200266	1/2"-13 X 3" Hex Bolt GR 8	4
18	11200236	3/4" SAE Flat Washer GR 8	6
19	11200206	3/4"-10 X 2 3/4" Hex Bolt GR 8	6
20	11200216	3/4"-10 Lock Nut GR C	9
21	11200226	3/4" Split Lock Washer GR 8	12
22	11200776	3/4"-10 X 4 1/2" Hex Bolt GR 8	1
23	11200806	3/4"-10 X 4" Hex Bolt GR 8	2
24	11700026	Spoil Auger	1
25	11200566	1/2"-20 X 1 1/2" Hex Bolt GR 8	1
26	11100036	Large Tail Wheel	1
27	11200726	3/4"-10 X 1 3/4" Hex Bolt GR 8	6
28	23300016	3/4" - 6ft - Machine Hose Kit	1
29	41000096	3/4" - 1/2" Straight Fitting	2
30	41000106	1/2" Flat Coupler M - Changeable	1
31	41000116	1/2" Flat Coupler FE - Changeable	1
32	40100176	Motor	1

7.2 48" MID FLOW TRENCHER PARTS DIAGRAM



ITEM	Part #	DESCRIPTION	QTY.
1	81100126	Extreme Crummer Arm Weldment	1
2	81100136	48" Tail Wheel Tensioner Weldment	1
3	81100146	Back Frame Weldment	1
4	81100156	Roller Pin Weldment	1
5	81100166	Trencher Sprocket Weldment	1
6	64400016	Crummer Arm Extension	1
7	60200036	Trencher Crummer Link Large	2
8	60200046	Trencher Crummer Link Small	2
9	60400046	Roller Big Spacer	1
10	60400056	Roller Small Spacer	1
11	60200056	Roller Pin Washer	1
12	40200026	Gearbox	1
13	41000026	3/4" X 1" Motor Fitting	2
14	11200406	1/2" USS Flat Washer GR 8	20
15	11200476	1/2"-13 X 3 1/2" Hex Bolt GR 8	6
16	11200446	1/2"-13 Lock Nut GR C	10
17	11200266	1/2"-13 X 3" Hex Bolt GR 8	4
18	11200236	3/4" SAE Flat Washer GR 8	6
19	11200206	3/4"-10 X 2 3/4" Hex Bolt GR 8	6
20	11200216	3/4"-10 Lock Nut GR C	9
21	11200226	3/4" Split Lock Washer GR 8	12
22	11200776	3/4"-10 X 4 1/2" Hex Bolt GR 8	1
23	11200806	3/4"-10 X 4" Hex Bolt GR 8	2
24	11700026	Spoil Auger	1
25	11200566	1/2"-20 X 1 1/2" Hex Bolt GR 8	1
26	11100036	Large Tail Wheel	1
27	11200726	3/4"-10 X 1 3/4" Hex Bolt GR 8	6
28	23300016	3/4" - 6ft - Machine Hose Kit	1
29	41000096	3/4" - 1/2" Straight Fitting	2
30	41000106	1/2" Flat Coupler M - Changeable	1
31	41000116	1/2" Flat Coupler FE - Changeable	1
32	40100166	Motor	1

SECTION 8

LIMITED WARRANTY

IronCraft (the Manufacturer) warrants, only to the original Purchaser, this equipment will be free from defects in material and workmanship, under normal use and service, for one (1) year from the date of purchase providing this equipment is purchased for individual use only. Commercial use of this equipment is not covered under any warranty. This warranty does not apply to any equipment which has been damaged or which has been subjected to change, misuse, negligence, abnormal wear and tear, alterations, tampering, or failure to follow operating instructions. This warranty does not cover any product or parts not manufactured by IronCraft.

Under this warranty, the Manufacturer will repair or replace any part which the Manufacturer determines has failed during the period of the warranty due to defects in material or workmanship. After written approval by the manufacturer, the equipment or defective part must be returned to IronCraft.

Warranty coverage and performance is expressly conditioned upon the return of the completed registration form to:

IronCraft, 7 Rocky Mt Rd, Athens, Tennessee 37303. Registration can be found on our website www.ironcraftusa.com

IronCraft reserves the right to make improvements and changes in specifications without notice or obligation to modify previously sold units. The Owner's Manual describes the proper assembly procedures for your implement and furnishes operating and maintenance recommendations to help you obtain long and satisfactory service.

PURCHASER'S EXCLUSIVE REMEDY FOR BREACH OF WARRANTY, OTHER DEFECT, OR CONDUCT GIVING RISE TO LIABILITY SHALL BE THE REPAIR OR REPLACEMENT OF THE PRODUCT SOLD, AND THE MANUFACTURER UNDER NO CIRCUMSTANCES SHALL BE LIABLE FOR ECONOMIC LOSS OR INCIDENTAL OR CONSEQUENTIAL DAMAGES. THE MANUFACTURER DISCLAIMS ALL IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR PURPOSE.

Purchaser and IronCraft hereby (a) submit to the non-exclusive jurisdiction of the courts of competent jurisdiction in Meigs County, Tennessee, and the United State District Court for the Eastern District of Tennessee for resolution of any dispute concerning this Limited Warranty or the rights or obligations of Purchaser and/or IronCraft; (b) agree that any litigation commenced in Tennessee in connection with this Limited Warranty shall be venued in either the Meigs County, Tennessee District Court, or the United States District Court, Eastern District of Tennessee, Southern Division, and (c) waive any objection it may have as to any such action or proceeding brought in such court that such court is an inconvenient forum. Nothing herein shall limit the right of Purchaser or IronCraft (or the right of any permitted successor or assign of either) to bring proceedings against the other in the courts of any other jurisdiction wherein any assets of such other party may be located.

REGISTER

This registration form must be filled out within 30 days of delivery to the purchaser or future warranty claims will not be honored.

www.ironcraftusa.com/warranty/register-warranty/

www.ironcraftusa.com/warranty/claim-warranty/

SECTION 9

SAFETY ACKNOWLEDGMENT

ATTENTION ALL OPERATORS: Print your name, sign and date in the boxes below to acknowledge that you have read and fully understand the safety instructions presented in this manual, and have been trained on how to safely operate this attachment.

OPERATOR NAME	SIGNATURE	DATE

SECTION 10

MAINTENANCE LOG

Use this log sheet to document all routine maintenance and repair services performed on this attachment.

DESCRIPTION OF MAINTENANCE/REPAIR	SERVICED BY:	DATE:

APPENDIX A FINDING YOUR MODEL AND SERIAL NUMBER

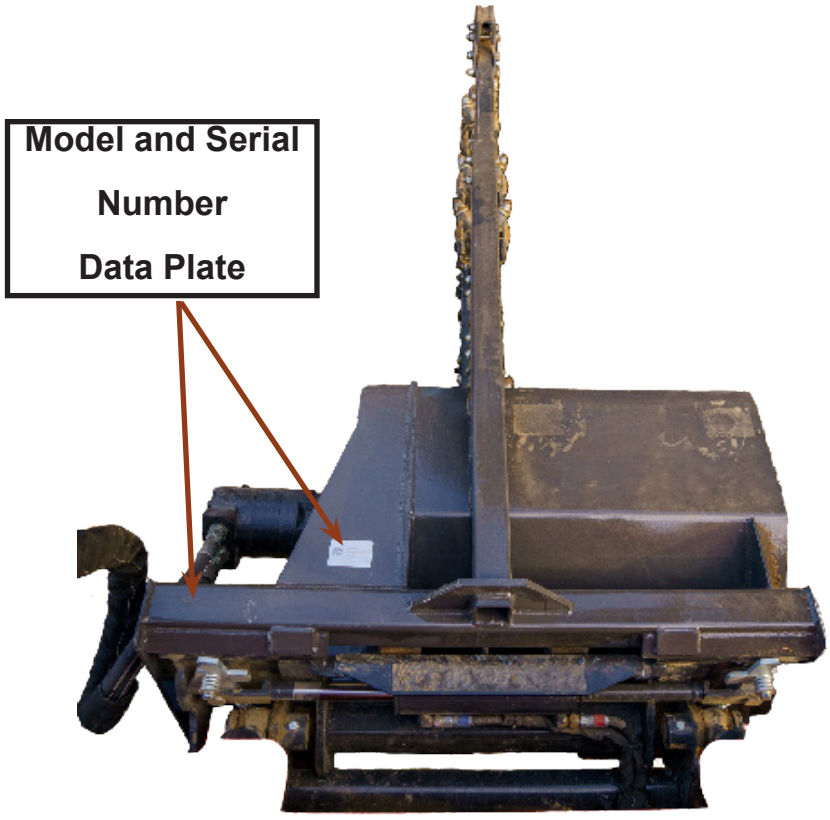
The Model and Serial numbers will

either be etched into the attachment or on a Data Plate.

Instructions: Stand at the back of the attachment facing the attachment mounting bracket and look in the following locations:

Top of the attachment plate-left side.

PLEASE NOTE: The Model and Serial number may be etched or on a Data Plate.



Disclaimer: Any critical changes made to this manual by individuals outside the manufacturer's authorized personnel are doing so at their own risk. The manufacturer cannot be held legally responsible for any consequences, damages, or liabilities resulting from such modifications. It is advised to adhere strictly to the original manual provided by the manufacturer for optimal performance, safety, and reliability.

IRONCRAFT

7 ROCKY MT RD

Athens, Tennessee 37303

(P) 423-405-5150

(F) 423-405-5904

WWW.IRONCRAFTUSA.COM

FARM EQUIPMENT MANUFACTURERS ASSOCIATION
FEMA

Revised March 2026

©2026 IronCraft Attachments. All rights reserved.