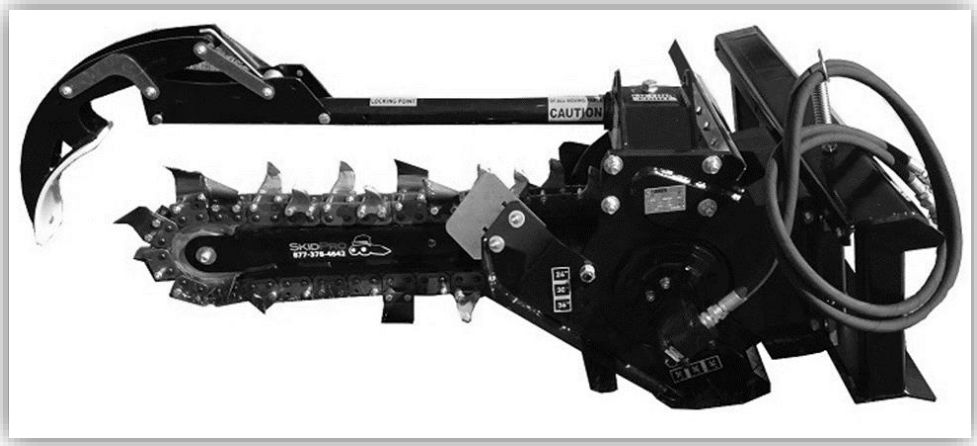
Trencher

Operation and Maintenance Manual



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Contents

INTRODUCTION

To the Purchaser

All products are designed to give safe, dependable service if they are operated and maintained according to instructions. Read and understand this manual before operation.

This manual has been prepared to assist the owner and operators in the safe operation and suitable maintenance of the equipment. The information was applicable to products at the time of manufacture and does not include modifications made afterwards.

Read and understand this operator's manual before attempting to put equipment into service. Familiarize yourself with the operating instructions and all the safety recommendations contained in this manual and those labeled on the equipment and on the skid steer. Follow the safety recommendations and make sure that those with whom you work follow them.

Illustrations

The illustrations may not necessarily reproduce the full detail and the exact shape of the parts or depict the actual models, but are intended for reference only.

Direction Reference

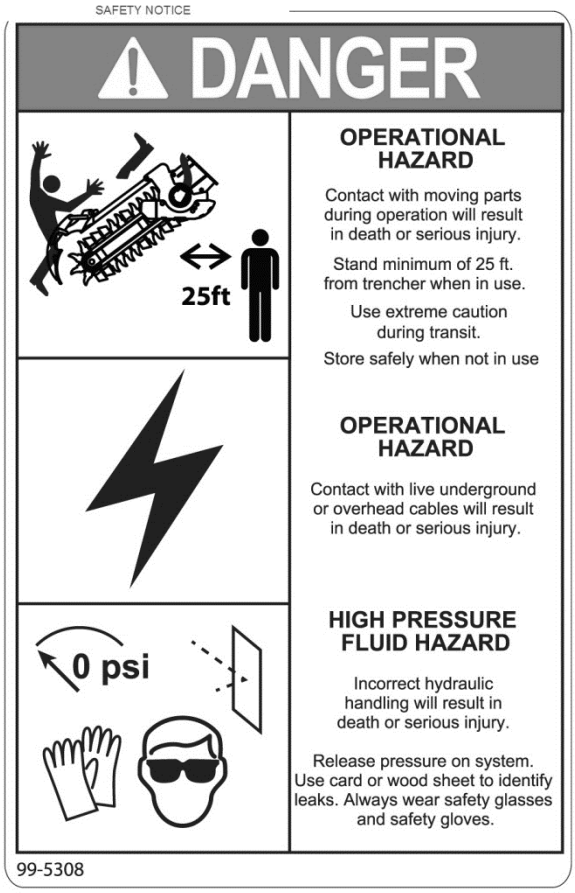
All references to right and left, forward or rearward, are from the operator's seat, facing the steering wheel.

To assist your dealer in handling your needs, please record hereafter the model number and the serial number of your equipment and skid steer. It is also advisable to supply them to your insurance company. It will be helpful in the event that an equipment or skid steer is lost or stolen.

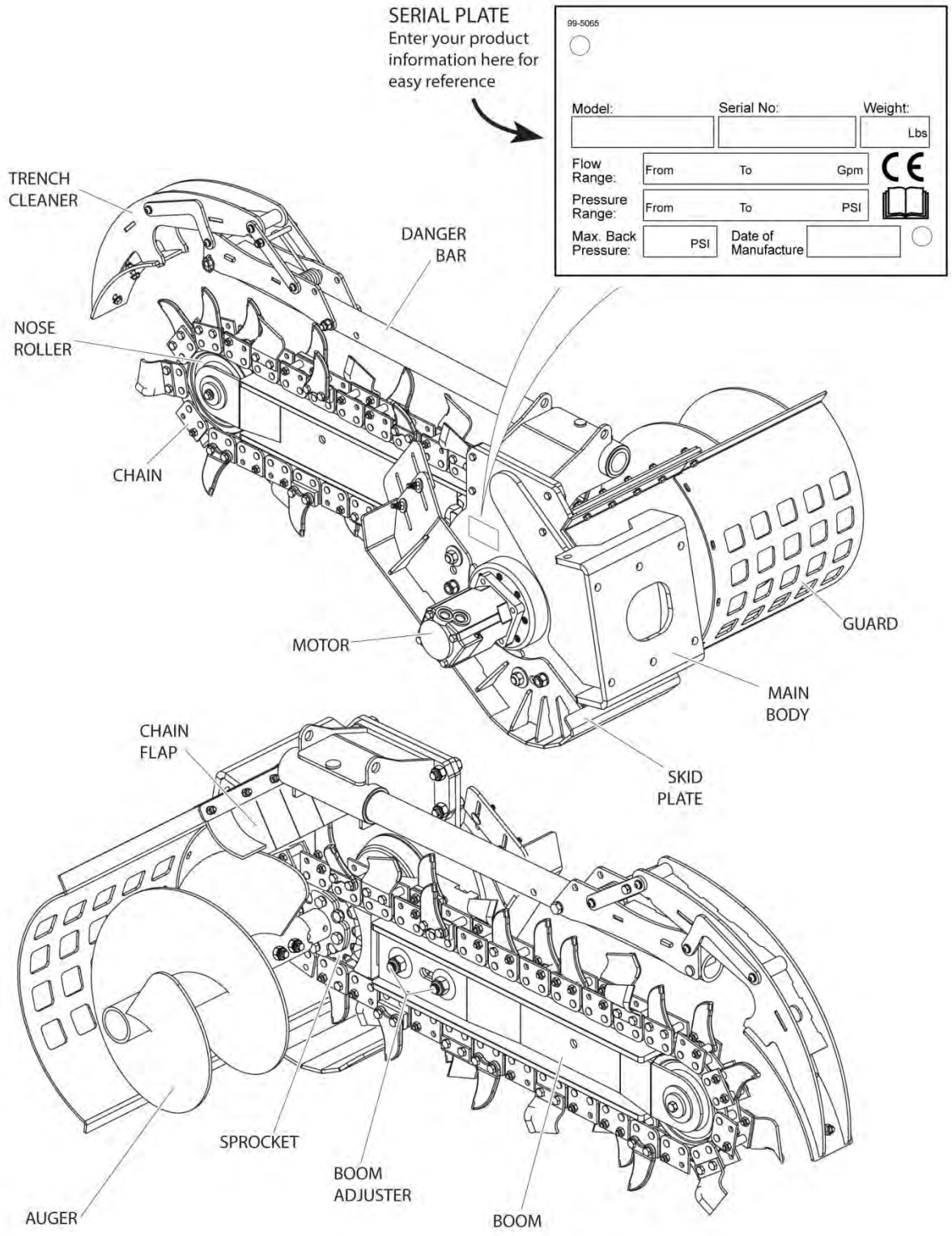
	SKID STEER	**IMPLEMENT**
MODEL:		
SERIAL NUMBER:		
DATE OF PURCHASE:		
DEALER NAME:		

SAFETY NOTICE

Hydraulic Attachment machinery can be dangerous if not operated, handled or stored properly. The machine features the following Safety Warning and Danger Labels which need to be read carefully BEFORE operation by all who will be operating or will be located near to the machine. More detailed safety information is contained on page 8.



IDENTIFICATION - MAIN PARTS



THE TRENCHER

Skid Pro Attachments thanks you for purchasing your new hydraulic auger product (for lubrication details and service intervals see page 21).

Before Operating the Drive Unit, Please Note:

Your drive unit comes complete, filled with the correct amount of oil. There is no need to check the oil level. Hydraulic hoses must be fitted and tightened to the correct torque (see page 11). The unit must be run in following the recommended procedure (see page 13). This operating manual has been prepared to enable you to operate the equipment in a safe manner.

Warnings, Cautions and Notes

This symbol is used to highlight important messages. When you see this symbol, be alert to the possibility of injury to yourself or others. Carefully read the messages that accompany it.

NOTE:
This operating manual should be used in conjunction with the parent machine's operating instructions. Instruction books should be regarded as part of the machine. They should always be kept safe with the machine for easy and quick reference. New or extra copies can be obtained from Skid Pro Attachments. Trenchers have been designed for use with specific parent machines along with the Skid Pro range of mounting frames. Provided these are used and maintained correctly, they will provide a safe and reliable method of trenching in the earth. Skid Pro continually strives to improve and increase its range of products and therefore reserves the right to alter its specifications at any time without notice or obligation. The company accepts no responsibility for discrepancies, which occur between specifications of its machines and descriptions thereof contained in its publications.

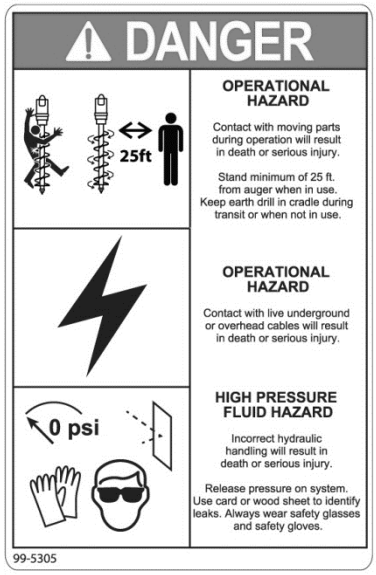
When ordering spare parts please quote the serial number of the trencher, which can be identified by the serial number plate.

Safety First

NEVER COMPROMISE ON SAFETY IT COULD CAUSE SERIOUS INJURY OR DEATH. All operators must read and ensure they fully understand all of the safety, operating and maintenance instructions before using the trencher. If you are in any doubt as to any of the instructions or information provided you must Skid Pro Attachments before attempting to use the trencher.

SAFETY PRECAUTIONS

DANGER: IMMEDIATE HAZARD! - Failure to understand or obey this information is likely to result in personal injury or death.
WARNING: Failure to follow these instructions may result in personal injury or death.
CAUTION: Failure to follow these instructions may result in minor personal injury or damage to the machine or the vehicle.
NOTICE: This is important information for the proper use of this equipment. Failure to comply may lead to premature equipment failure.



CLEAN OR REPLACE THE SAFETY LABELS IF THEY CANNOT BE CLEARLY READ OR UNDERSTOOD
NEVER allow bystanders (including animals) within 25 ft. of the work area or allow minors to operate the trencher Unit.
NEVER operate or assemble the trencher without fully understanding the operating instructions of both the trencher unit and the parent machine. Skid Pro recommends that you receive dealer instruction before operating the trencher unit.
NEVER operate the trencher unit unless you are in good physical condition and mental health.
NEVER operate the trencher unit under the influence of any substance (including drugs & alcohol), which might impair vision, dexterity or judgement.
NEVER operate the trencher unit with worn, damaged or missing parts. Only use genuine replacement parts.
NEVER expose fuel or lubricants to any possible source of ignition.
NEVER wear clothing that could become entangled with the trencher unit.
ALWAYS survey the work area before work. Trenching below ground risks electrocution and explosion through contact with unseen hazards such as electricity cables and gas pipes
ALWAYS ensure that the parent machine is secure and stable with it engine switched off and the hydraulic circuit is locked out before carrying out any fitting of auxiliary equipment or maintenance work.
ALWAYS protect yourself and the environment. Hydraulic oil, lubricants and exhaust fumes are toxic.
ALWAYS tie back long hair and remove jewelry before work. Wear suitable clothing that is close fitting whilst allowing freedom of movement.
ALWAYS protect hands - Trencher parts are sharp. Select gloves that are non-slip to improve grip and ones that protect against contact with oils and greases.
ALWAYS protect feet with safety footwear (non-slip soles and steel toe caps are recommended). Trencher unit parts are heavy and sharp.
ALWAYS wear head protection and eye protection when working on the trencher unit
ALWAYS follow parent machine instruction regarding noise protection.

FITTING THE TRENCHER UNIT
Excavators - Double Pin Hitch

Always work in pairs (two skilled operatives) whenever trencher unit components are being assembled or dissembled from the parent machine. Always check the weight of the attachment and ensure you have the correct equipment for handling it.

Always check parent machine:

- Is in correct working order.
- Is parked correctly on flat ground.
- The hydraulic circuit is locked out and the engine switched OFF

Check that the mounting frame is of the correct model and type to fit the machine.

Ensure mounting frame and attachment points are clean before fitting.

Use suitably rated lifting equipment if required (see serial plate for weight)

FITTING Ensure all components are greased on assembly:

Refer to the parent machines operators' manual for attaching accessories

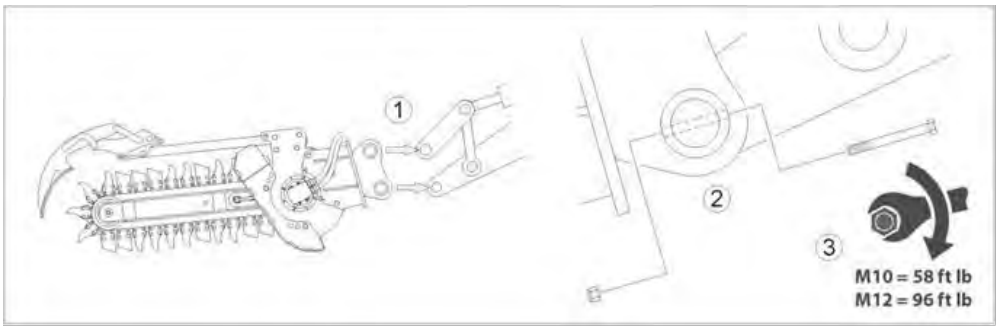
1. Fit mounting frame to parent machine arms with the correct pins
2. Align bolt location holes and fit location bolts and Nyloc nuts
3. Tighten all Nylon Insert nuts to 17 ft lb

Locate the flow and return hydraulic pipes onto the Trencher Unit (see page 11)

Connect quick release couplers,

Check that the hydraulic pipes are of sufficient length to allow the trencher to articulate during work.

Excavators - Double Pin HitCH



FITTING THE TRENCHER UNIT

Excavators with Quick Hitch

Always work in pairs (two skilled operatives) whenever trencher unit components are being assembled or dissembled from the parent machine. Always check the weight of the attachment and ensure you have the correct equipment for handling it.

Always check parent machine:

- Is in correct working order.
- Is parked correctly on flat ground.
- The hydraulic circuit is locked out and the engine switched OFF.

Check that the mounting frame is of the correct model and type to fit the machine. Ensure mounting frame and attachment points are clean before fitting.

Use suitably rated lifting equipment if required (see serial plate for weight)

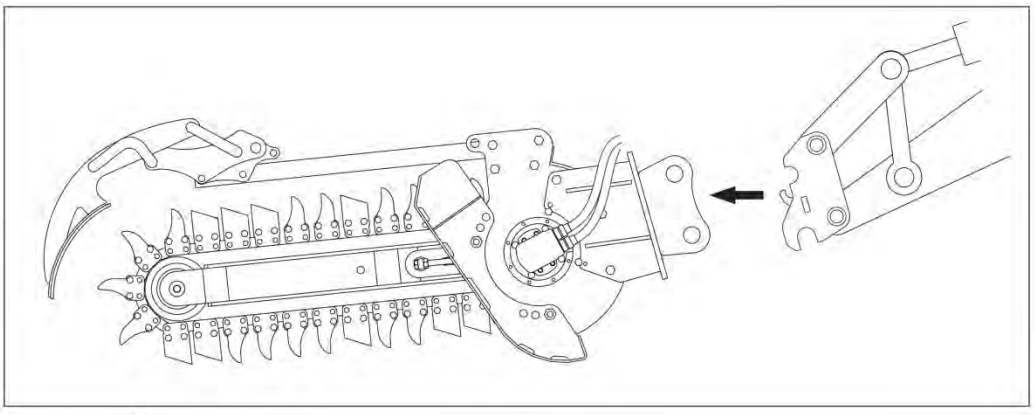
FITTING Ensure all components are greased on assembly:

Refer to the parent machines operators' manual for attaching accessories

Fit the mounting frame to the quick hitch coupling and ensure that it is securely locked in position Locate the flow and return hydraulic pipes onto the Trencher Unit (see page 11)

Connect quick release couplers.

Check that hydraulic pipes are of sufficient length to allow the Trencher to articulate during work



Skid Steer Loaders

Always work in pairs (two skilled operatives) whenever trencher unit components are being assembled or dissembled from the parent machine. Always check the weight of the attachment and ensure you have the correct equipment for handling it.

Always check parent machine:

- Is in correct working order.
- Is parked correctly on flat ground.
- The hydraulic circuit is locked out and the engine switched OFF.

Check that the mounting frame is of the correct model and type to fit the machine.

Ensure mounting frame and attachment points are clean before fitting.

Use suitably rated lifting equipment if required (see serial plate for weight)

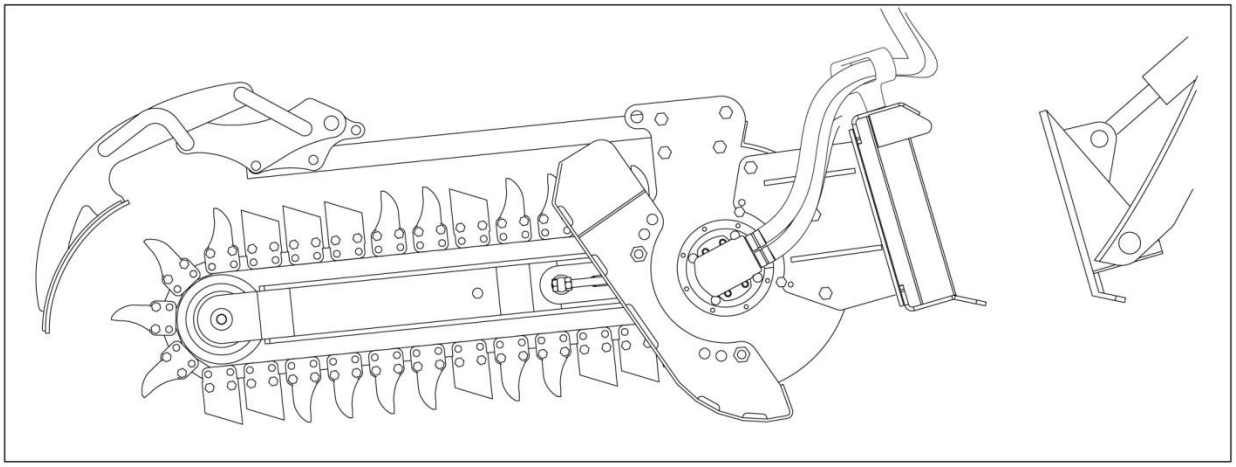
FITTING Ensure all components are greased on assembly:
Refer to the parent machines operators' manual for attaching accessories

1. Fit mounting frame to parent machine arms
2. Ensure that the unit is securely locked in place using the levers

Locate the flow and return hydraulic pipes onto the Trencher Unit (see page 11)

Connect quick release couplers.

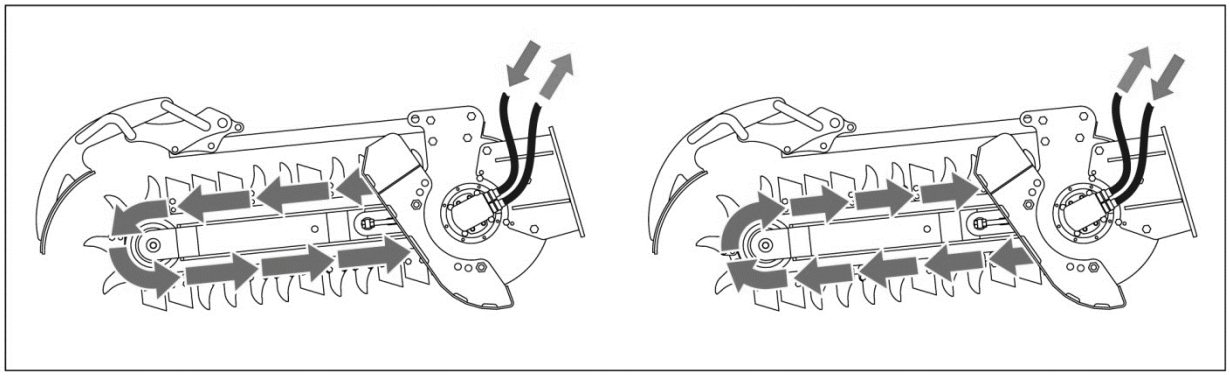
Check that hydraulic pipes are of sufficient length to allow the Trencher to articulate during work



INSTALLATION

Trencher units have been designed for use with specific mounting frames and trencher wear parts. Provided these are used and maintained correctly, they will provide a safe and reliable method of trenching in the earth.

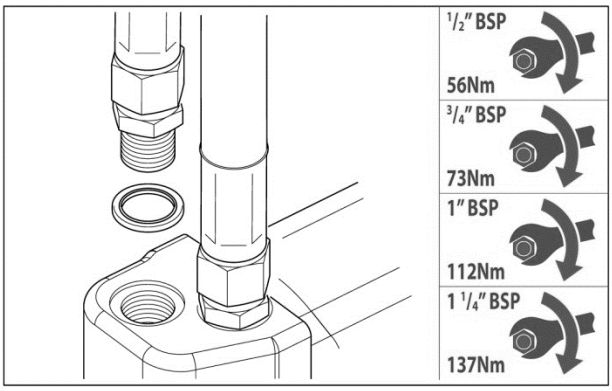
All trenching units require a 'flow' and 'return' of hydraulic fluid from the parent machine's auxiliary hydraulic power supply to operate. All trenchers are reversible and require the host machine to be fitted with a two way flow auxiliary circuit. Check with the parent machine dealer for advice.



When fitting hydraulic hoses, ensure that they are tightened to the correct torque for the hose fittings.

Some models of Trencher are supplied with hydraulic hoses, but less hydraulic quick release couplers, which are required for connection to parent machine.

These should be sourced locally and be compatible with the auxiliary hydraulic quick release couplers on the parent machine.



The parent machine auxiliary hydraulic connections are normally located near the end of the loader arms or excavator dipper.

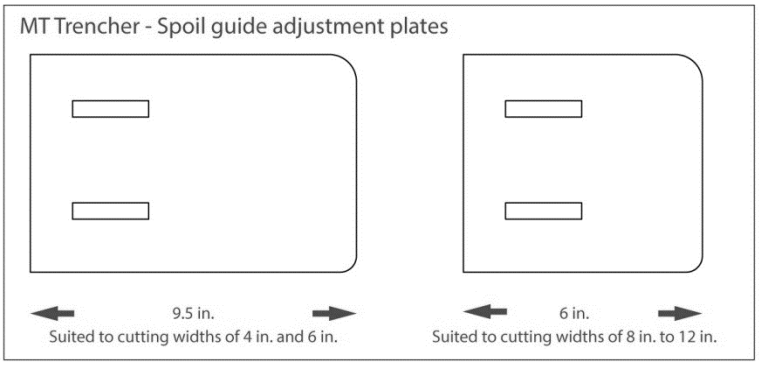
It is critical that the supply of oil is within the stated limits for the particular Trenching Unit;

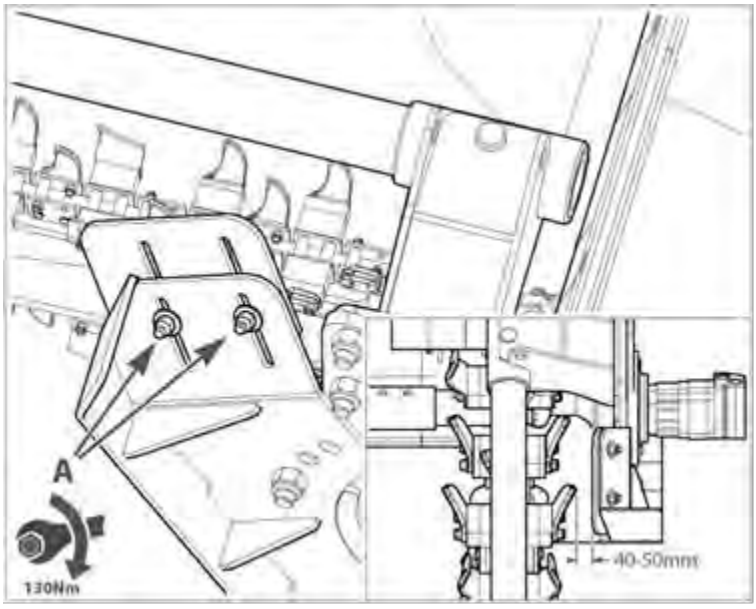
Check that the rated flow & pressure of your machine does not exceed the limits shown on the serial plate.

SKID SIDE PLATE ADJUSTMENT

To ensure that the left hand side of the trench is free from spoil, the skid is fitted with a side plate to deflect spoil back on to the chain. This ensures that the maximum amount of spoil is removed on the right-hand side by the auger.

Some models have an adjustable side plate. This must be carefully adjusted to provide the optimum spoil removal without causing damage to the chain.





Loosen the nuts (A) and adjust the side plate to achieve a clearance of 1.5 - 2 in. between the plate and the widest teeth.

Tighten the nuts.

RUNNING IN

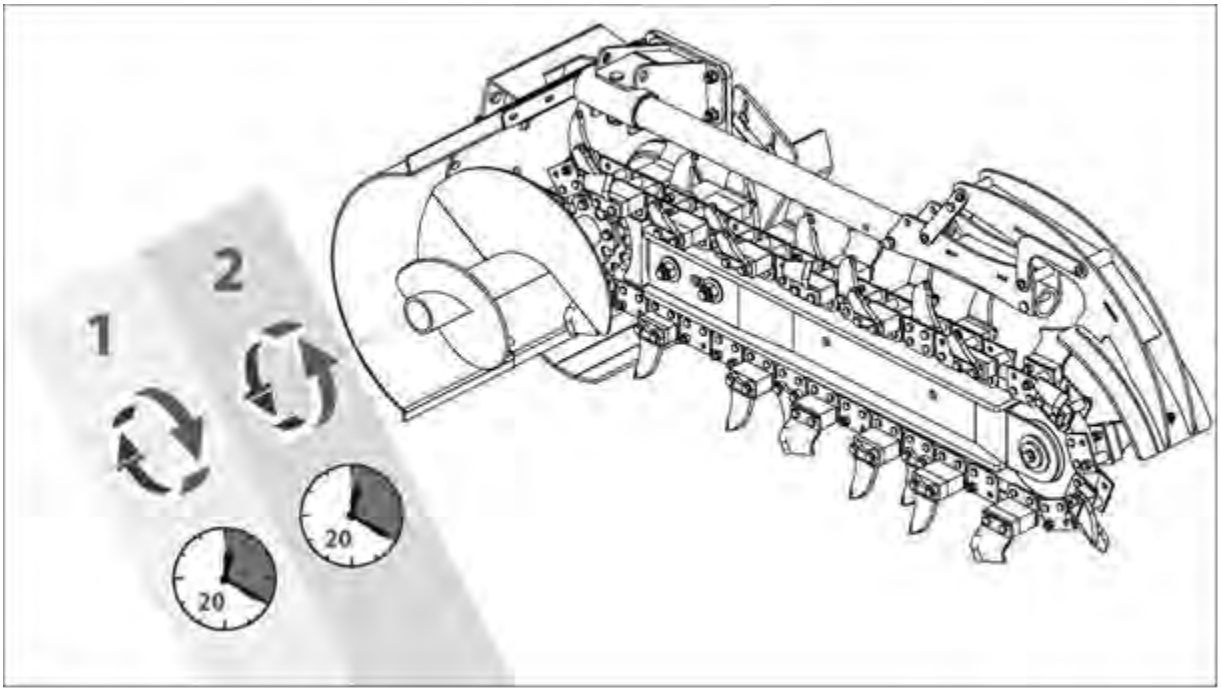
To maximize the life of the motor, it must be run in for a period.

To carry out the running in procedure, suspend the trencher unit clear of the ground, with the boom horizontal.

For the duration of the running in procedure, ensure that no bystanders (including animals) can get within 25 ft. of the work area.

Operate the motor at 30% of rated pressure for 20 minutes in each direction before application of full operating load.

To further ensure best motor life and maintain warranty, refer to page 21 or 22 for lubrication instructions.



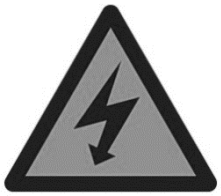
PREPARATION

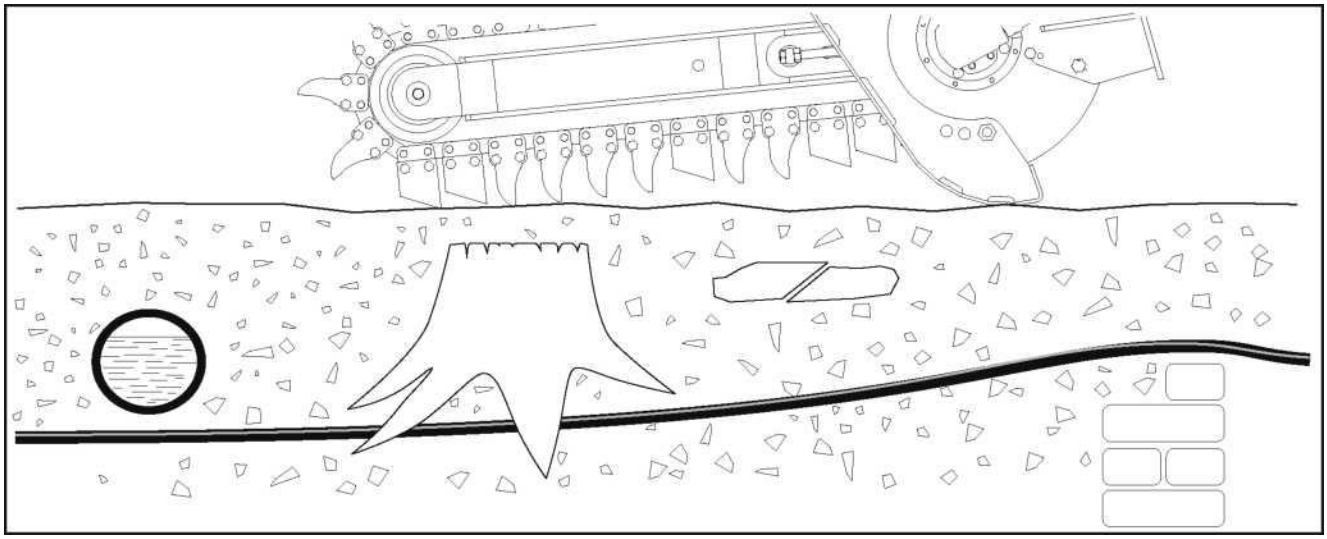
CONSIDER the topography (e.g. risk of subsidence, slope angle, position to embankments and any previous excavation).

NOTE the type of soil and its condition to enable selection of suitable teeth.

ALWAYS carry out a site survey and risk assessment BEFORE starting work.

AVOID underground hazards, such as Water/ Gas / Electricity / Communication Lines etc.

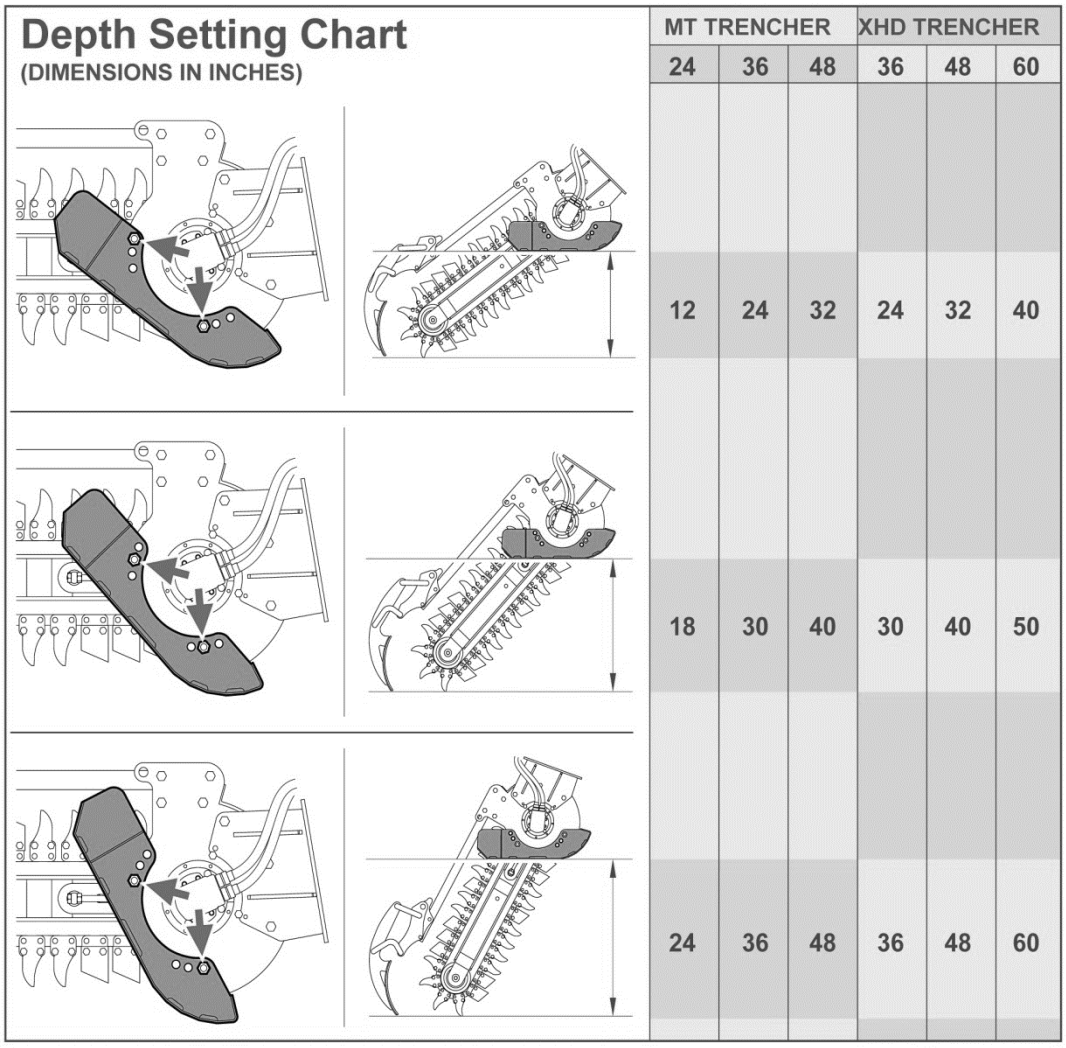




If in doubt, detection equipment and professional advice should always be considered before carrying out any work.

TRENCH DEPTH SETTING

The trenching depth is controlled by the skid plate, which runs with its flat surface on the ground. By changing the angle of the skid plate, the trencher can operate at one of three depth settings. The skid plate is secured by 2 nuts to studs on the main body as indicated by the arrows. 3 pairs of mounting holes in the skid plate allow the trenching depth to be set as shown in the diagrams below. Once the trench depth is set, torque the nuts to 102 ft lb.

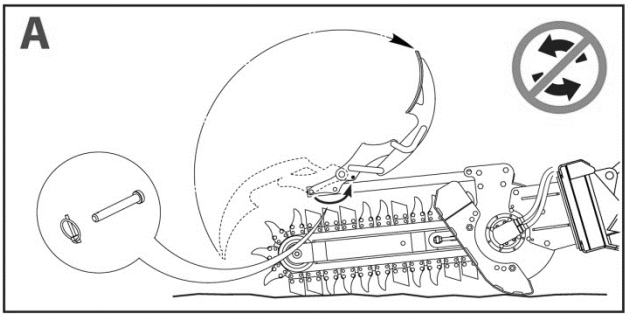


MT TRENCHER			XHD TRENCHER		
24	36	48	36	48	60
12	24	32	24	32	40
18	30	40	30	40	50
24	36	48	36	48	60

TRENCHING PROCEDURE

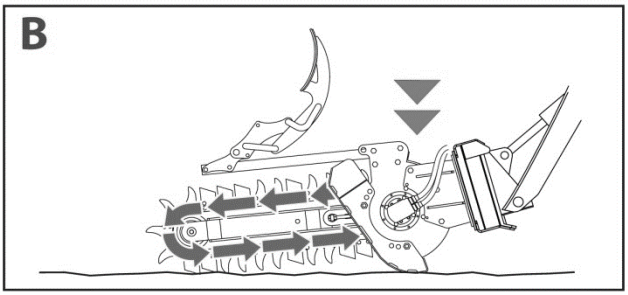
A

Switch off parent machine and ensure the hydraulic system is locked out. Set the Trench Cleaner in its OPEN position and secure it with linch pin.



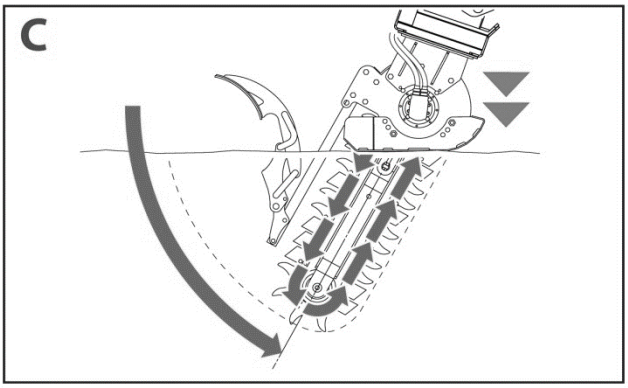
B

Start the parent machine, engage the hydraulic system and ensure that the chain is moving in the correct direction. Set the trencher with the rear of the skid firmly on the ground.



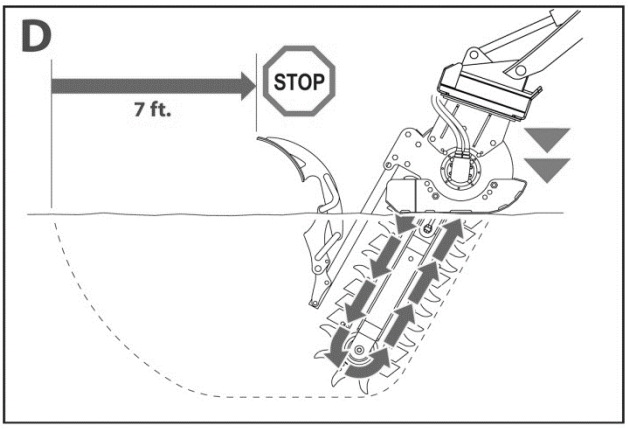
C

With trencher chain operating and weight applied to the skid plate, GRADUALLY rotate the trencher on so that it penetrates the ground. Always keep the weight on the skid plate while cutting.



D

When the flat face of the skid plate is firmly in contact with the ground, STEADILY reverse the parent machine.
Avoid stalling the chain.
After at least 7 ft. of trencher, STOP the parent machine.

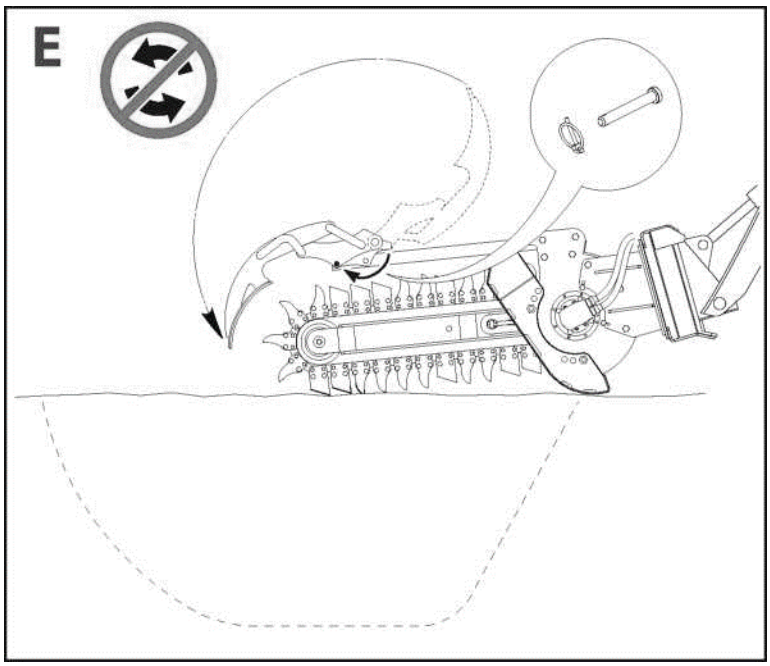


CONTINUED ON NEXT PAGE

TRENCHING PROCEDURE (continued)

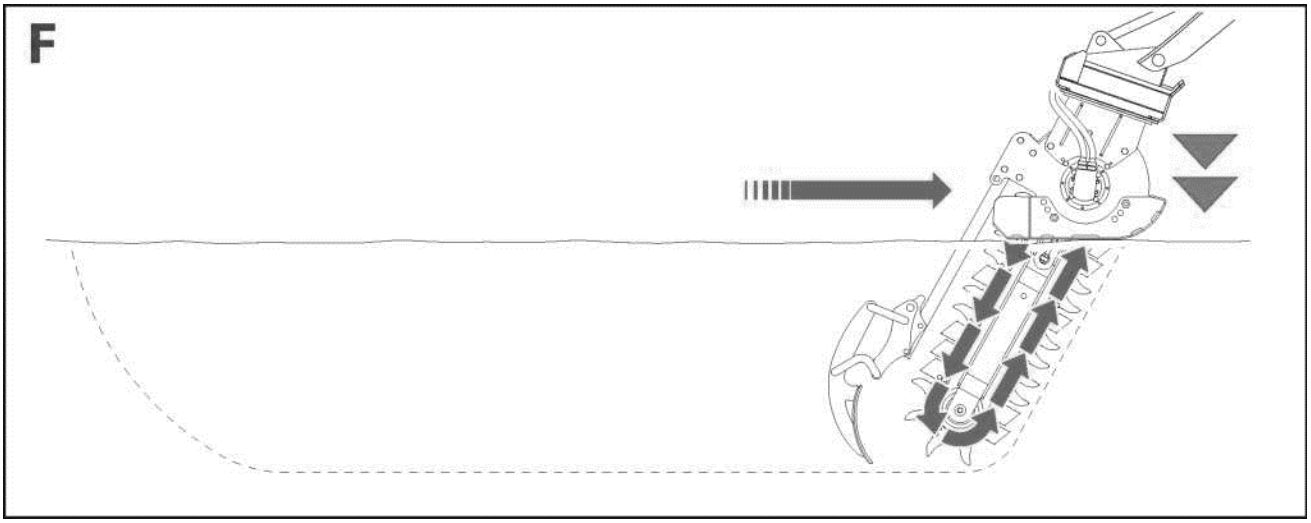
E

Raise the trencher above ground level Fig E. Switch off parent machine and ensure the hydraulic system is locked out.
Set the Trench Cleaner in its CLOSED position and secure it with linch pin.



F

Start the parent machine, engage the hydraulic system and lower the trencher into the trench until the flat face of the skid plate is firmly on the ground with weight applied and continue trenching Fig F.



TRANSPORTATION

Transporting on Public Highways

ALWAYS remove the Trencher Unit before driving or transporting the parent machine on public highways.

ALWAYS store the Trencher Unit securely and safely when removed from the parent machine taking special care of the hydraulic hoses and connections.

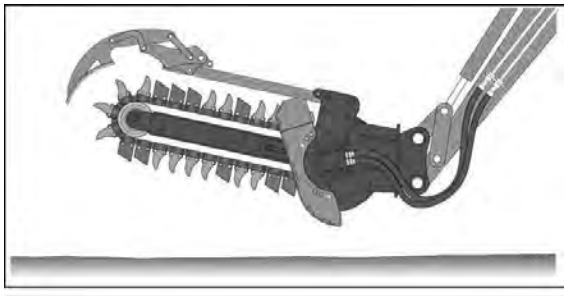
Transporting within the Job Site

ALWAYS Disengage the rotation of the Trencher chain, whenever operating the parent machine, whilst the Trencher Unit is not trenching.

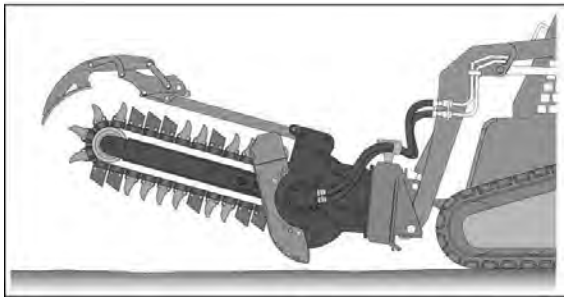
ALWAYS operate the parent machine slowly when on site, keeping the trencher unit as close to the parent machine and as low as possible. The best travelling positions for Excavator and Skid Steer loader are shown below.

Recommended Travel Position

Excavator



Skid Steer Loader



MAINTENANCE

Routine Maintenance

After your first 150 ft. of trenching, raise the trencher unit and check the chain tension.
Refer to page 23 for chain adjustment instructions. Chain tension should be checked after every 1500 ft. of trenching.

Your trencher unit features a sealed gear housing filled with gear oil to lubricate the planetary gear set components and bearings within the housing.

Trencher units are low maintenance, however regular checks for oil leaks and following the service schedules are recommended to ensure a trouble free product.

Daily checks

Check Chain adjustment **(see page 23).**
Check Tooth wear.
Check Condition of nose roller assembly.
Check for oil leaks

Weekly checks (in addition to daily checks)

Check overall condition of the trencher unit and mounting frame.
Check drive sprocket for wear **(see pages 27 & 28 for correct replacement details).**
Check hydraulic hoses for any damage.

After first 100 hours of operation or six (6) months

To maximize life and maintain warranty the Trencher Unit gear oil requires draining and replacing with Castrol EP320 (or equivalent) after the first 100 hours of operation or six (6) months from date of purchase - whichever occurs first **(see pages 23 & 24 for oil change details).**

Important: To maintain product warranty must record proof of this first oil change.

Yearly or after every 500 hours of use (whichever is sooner)

The trencher unit gear oil requires draining and replacing with Castrol EP320 (or equivalent) every twelve (12) months or 500 hours - whichever occurs first.

Oil capacity
Refer to pages 21 & 22 for the correct volume of oil for your trencher.

Lubrication Safety

SAFETY AT ALL TIMES

Ensure environmentally safe disposal of waste oil: Do not pour down drain!

Avoid Fire or Explosion:
Do not smoke near, or expose lubricants to, any possible sources of ignition (E.g. fire, electrical sparks or heat sources.)

Always wear eye protection.

Wear suitable protective clothing and gloves.

All lubricants are toxic and potentially carcinogenic (cancer causing).

Always use a suitable barrier cream in case of skin contact.

Avoid contact with skin and eyes

In the event of skin contact, wash with soap and water.

In the event of eye contact wash with water and seek medical advice.

Do not digest: If swallowed seek medical advice immediately.

Oil Change

Drive unit Oil Change: Models MT36, MT48, XHD36. XHD48 & XHD60 Oil change instructions for the MT24 trencher are on page 22.

Before starting any maintenance work on this unit read these instructions carefully and ensure you have the correct tools, materials and safety equipment to hand.

Pre-heat the oil by running the unit for 15 minutes.

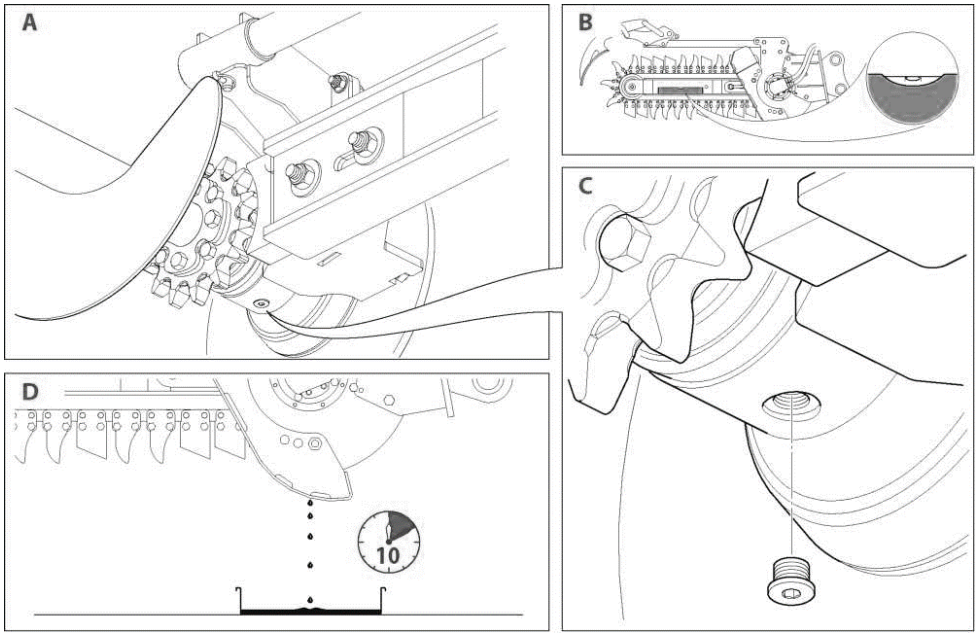
Ensure that the unit is securely supported so that you have safe access to the underside of the drive unit.

Locate the fill plug in the top of the output housing and the drain plug in the bottom of the housing **(Fig. A).**

To ensure that the unit drains completely make sure that the boom is horizontal (Fig. B).

Place a tray beneath the unit to catch the oil. Remove the fill plug, then the drain plug **(Fig. C)**.

Allow the oil to drain for 10 minutes **(Fig. D)**.



Replace the drain plug and add the correct quantity of EP320 gear oil;

MT36, MT48; 0.30 Gallons
XHD Range; 0.31 Gallons

Replace the fill plug and ensure both plugs are tightened securely.

Oil Change (continued)

Drive unit Oil Change (MT24 only, refer to page 21 for other models):
Before starting any maintenance work on this unit read the instructions carefully and ensure you have the correct tools, materials, and safety equipment to hand.

Pre-heat the oil by running the unit for 15 minutes.

To change the oil, first ensure that the unit is securely supported so that you have safe access to the motor unit.

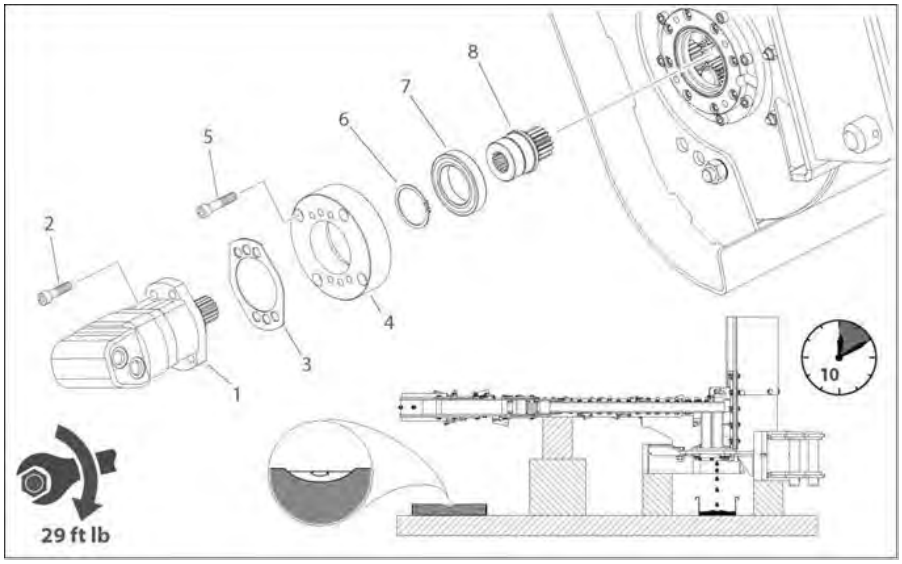
Remove the Motor unit (1) by undoing the 4 bolts (2) in the mounting flange. The gasket (3) will be released, if you do not have a replacement gasket, retain it for replacement of the motor.

Remove the Housing (4) by undoing the 4 bolts (5). This will come out complete with the Sun Gear (8), Bearing (7) and Circlip (6).

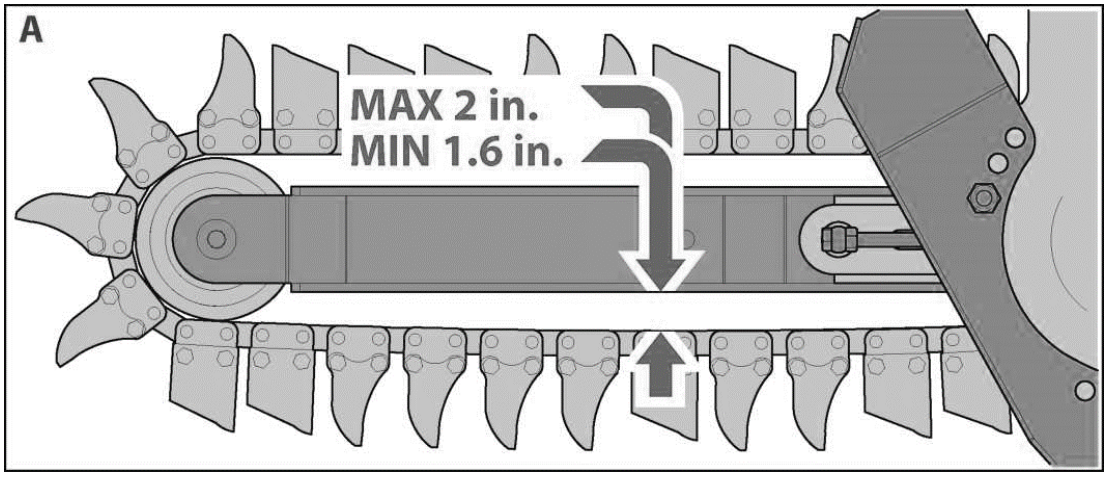
Turn the unit over, so that the opening is facing downwards, over a tray to catch the oil as it drains. Allow to drain for 10 minutes.

Turn the trencher over and add 0.13 Gallons of EP320 gear oil;

Rebuild the trencher by following the steps above in reverse order. Re-tighten all fasteners to 29 ft lb.

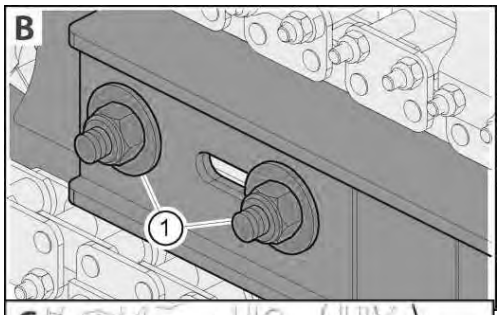


Chain Adjustment



Check the chain tension by measuring the clearance between the chain and the boom as shown in **Fig A**.

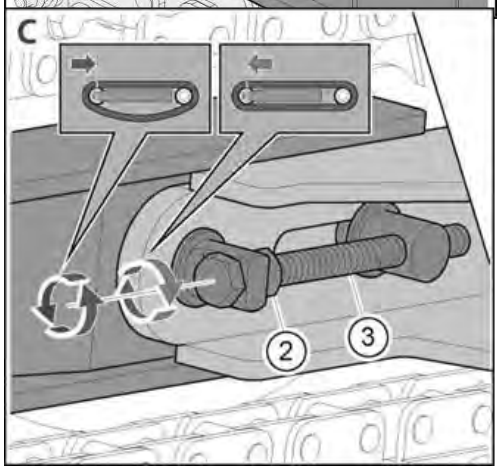
Step 1
The correct clearance should be between a minimum of 1.6 in. and a maximum of 2 in. If adjustment is necessary, loosen the two nuts (1) on the auger side of the boom **Fig B**.



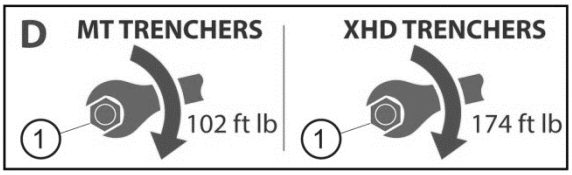
Step 2
Loosen the tensioner locknut (2) **Fig C** and adjust the tension by turning the screw (3) as shown in the diagram.

Step 3
Check the chain tension as shown in **Fig A** and re-adjust as necessary until the correct clearance is achieved.

Step 4
Tighten the locknut (2) **Fig C**.



Step 5
Tighten the two nuts (1) Fig B using the torque values in **Fig D**.



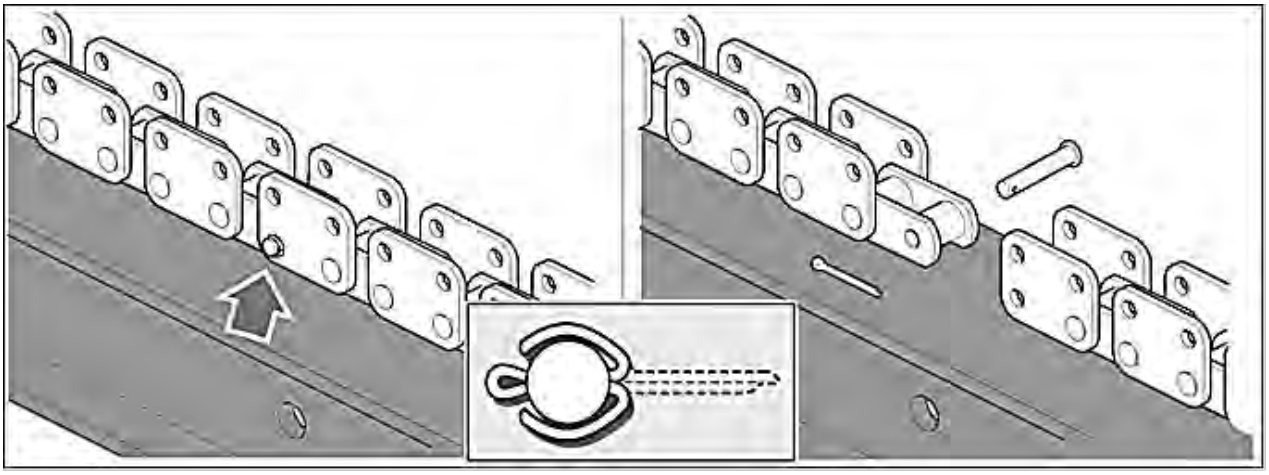
CHECK THAT ALL NUTS ARE RE-TIGHTENED BEFORE OPERATING THE TRENCHER

Chain Removal/Replacement

The chain ends are joined with a pin, which is secured with a split cotter pin. Ensure that the chain is slackened off completely, **following the 'Chain Adjustment' instructions on Page 23.**

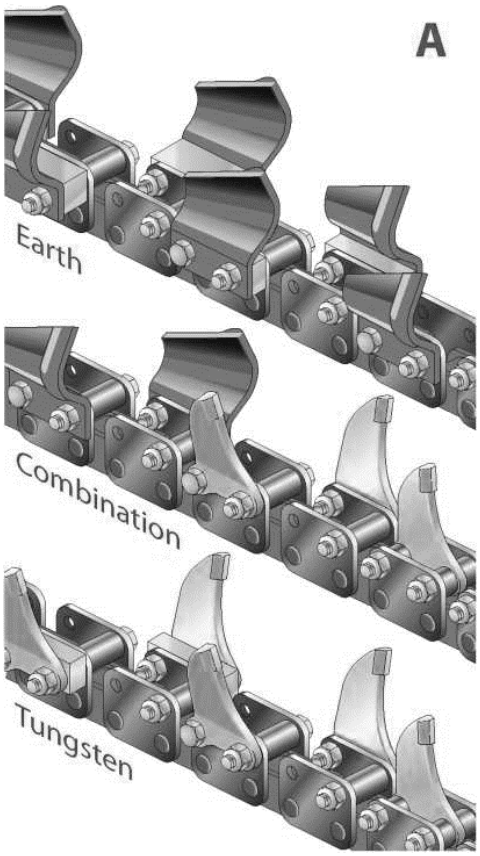
CAUTION: Once the joining pin is removed, the weight of the chain will cause it to swing or fall, take care to either secure the chain or make sure that it will not cause any damage when released.

Remove the split pin and press out the joining pin.
Replacement is the reverse of removal, apply grease to the holes and pin before fitting. Fit a new split pin and ensure that the ends of the split pin are securely bent over before running. Locate the joining pin and rotate the chain so that you have easy access to both ends of the pin.



CAUTION:
Before operating the trencher, set the chain tension following the 'Chain Adjustment' instructions on Page 23.

Cutting Tooth Maintenance

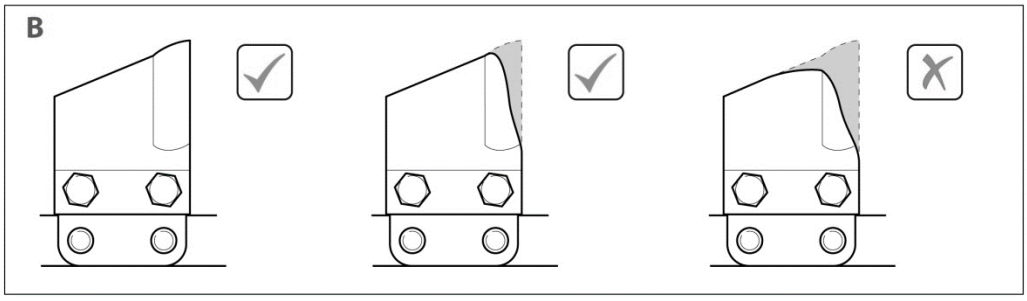


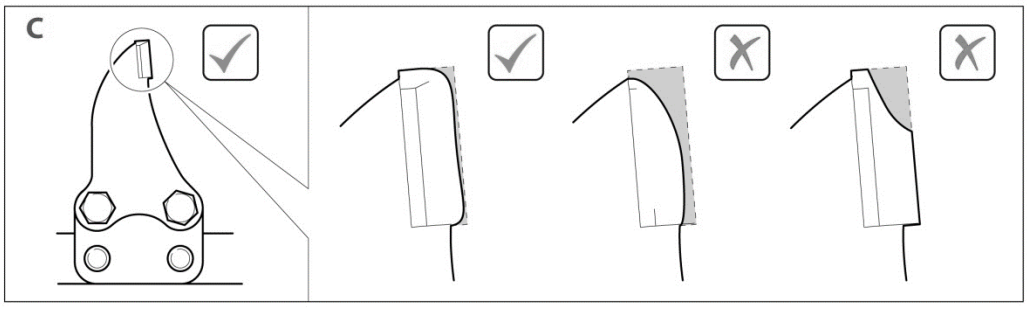
To cope with different types of trenching conditions, our trenching chains are supplied fitted with interchangeable 'Earth' or 'Tungsten' teeth, or a combination of both types **(Fig A)**.

The teeth are bolted directly to the chain, or with spacers to provide a range of trench widths.

After prolonged use, the cutting teeth will show signs of wear and eventually become inefficient.

Fig B shows acceptable levels of wear for the earth teeth. Tungsten tooth wear limits are shown in **Fig C**.





Nose Roller Bearing Replacement

To remove the Nose Roller, first remove the chain as described in **'Chain Removal/Replacement' on Page 24**.

A:

The Nose Roller is attached by 2 bolts, 2 spring washers and 2 special washers, which secure a square pin between the ears of the boom. Removing either of the bolts with its washers will enable the square pin to be withdrawn and free the nose roller.

The bearing is retained by a shoulder on one side and circlip on the other.

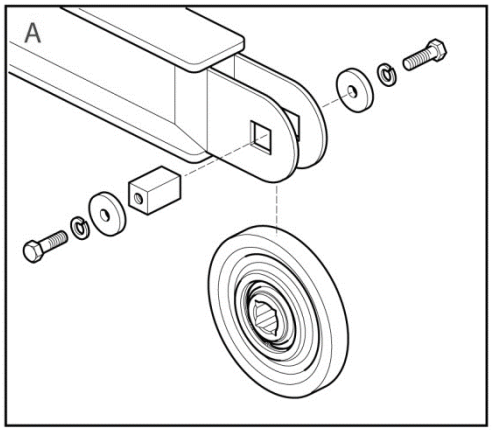
B:
Remove the circlip with a pair of internal circlip pliers.

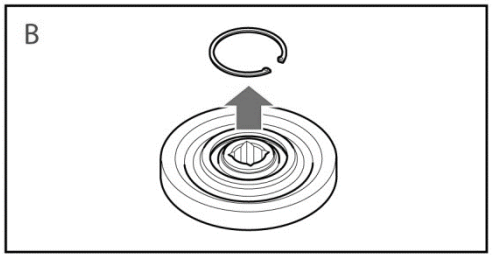
C:
Press out the bearing, ensuring that the roller is supported close to the opening, leaving enough space below for the bearing to clear the hole.

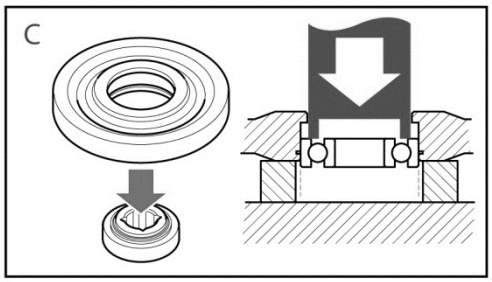
D:
To fit a new bearing, invert the roller on a flat surface. Check the mating surfaces and the circlip groove to ensure they are clear of obstructions.

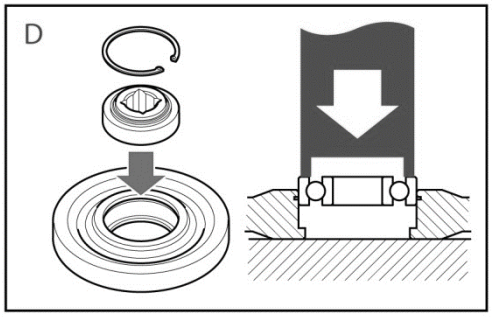
Press in the new bearing with an adaptor that applies pressure only to the outer journal of the bearing. Ensure that the bearing clears the circlip groove and sits against the shoulder at the bottom of the hole. Refit the circlip. Refit the nose roller (refer to Fig A for correct sequence of components).

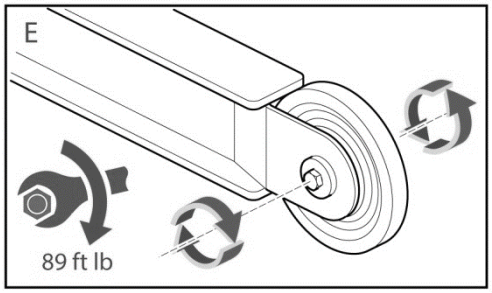
E:
Tighten both bolts to 89 ft lb**.**









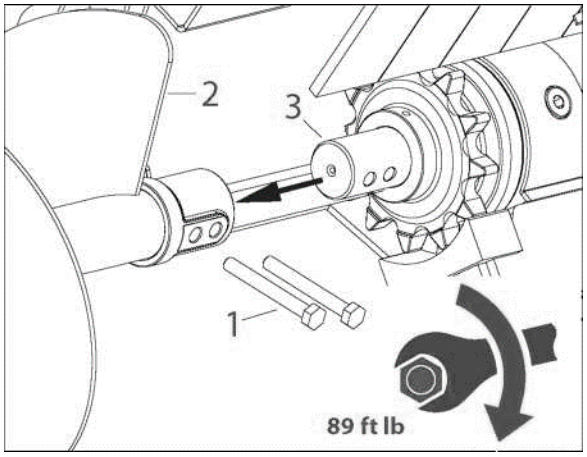


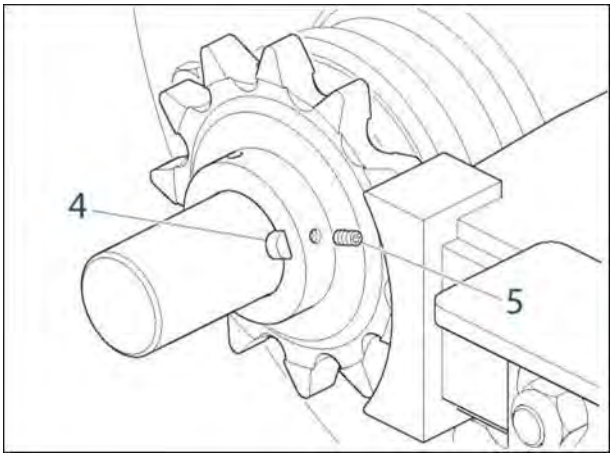
Sprocket Removal & Replacement – MT Trencher

To remove the sprocket, first remove the chain as described in **'Chain Removal/ Replacement' on Page 24**.

Step 1:
Spoil Auger Removal
Ensure hydraulic oil supply has been disconnected. Secure the trencher in a stable position. Remove fasteners assembly (1) from the spoil auger (2). Retract the spoil auger (2) from the output shaft (3).
Refitting is the reverse of removal; ensure the fastener assembly is tightened to a torque of 89 ft lb.

Step 2:
Sprocket Removal
Rotate the sprocket until the locating key (4) and setscrew (5) are visible.
Loosen the setscrew and slide the sprocket from the output shaft.
Prior to fitting a new sprocket, ensure that the shaft is free from dirt and debris and apply grease to the mating surfaces.
Slide the sprocket on to the shaft ensuring that the key aligns with the slot and the sprocket is tight against the seal protector before tightening the setscrew.





Sprocket Removal & Replacement – XHD Trencher

To remove the sprocket, first remove the chain as described in **'Chain Removal/ Replacement' on Page 24.**

Step 1:
Spoil Auger Removal
Ensure hydraulic oil supply has been disconnected. Secure the trencher in a stable position. Remove fasteners assembly (1 & 2) from the spoil auger (3). Retract the spoil auger (3) from the output shaft (4).

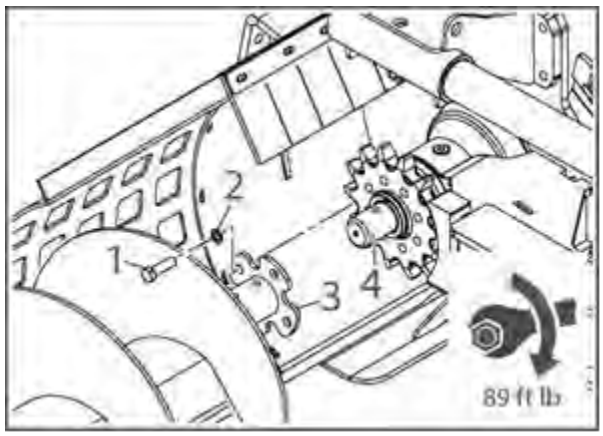
Refitting is the reverse of removal; ensure the fastener assembly is tightened to a torque of 89 ft lb.

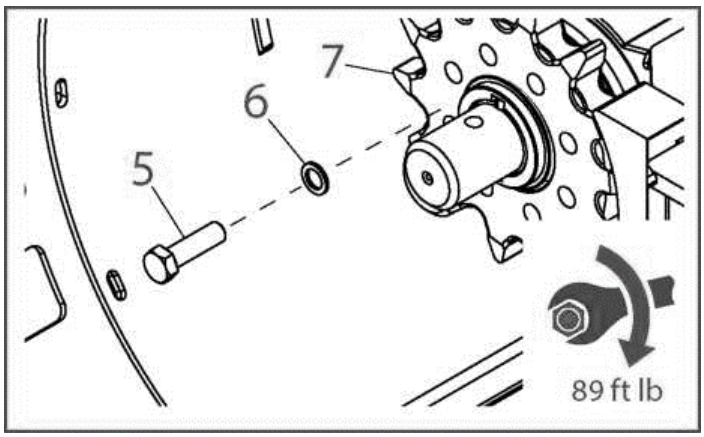
Step 2:
Sprocket Removal
Remove fastener assembly (5 & 6)

Remove sprocket (7)

Prior to fitting a new sprocket, ensure that the shaft is free from dirt and debris and apply grease to the mating surfaces.

Refitting is the reverse of removal; ensure the fastener assembly is tightened to a torque of 89 ft lb.





TROUBLESHOOTING - FAULT FINDING

Mounting Frame - Assembly		
FAULT	**POSSIBLE CAUSE**	**ACTION**
Mounting frame does not fit parent machine	Incorrect or non - genuine mounting frame being used	Refer to both this manual and parent machine's operating assembly instructions
Mounting Frame - Operation		
FAULT	POSSIBLE CAUSE	ACTION
Excessive movement in locating pins	Incorrect or worn locating pins Parent machine pin location / linkage frame pin location worn Damaged parts	Replace with correct new genuine parts Seek advice from parent machine dealer Seek advice from Skid Pro/parent machine dealer. Only use genuine spare parts
Trencher Unit - Assembly		
FAULT	**POSSIBLE CAUSE**	**ACTION**
Trencher Unit will not fit mounting frame	Incorrect / incompatible or non-genuine mounting frame / Trencher Unit Damaged parts Incorrect or worn pins	Obtain & fit correct and compatible genuine parts Only use genuine spare parts Replace with correct new genuine parts
FAULT	**POSSIBLE CAUSE**	**ACTION**
Trencher drive output shaft does not rotate	No oil flow	Check that parent machine hydraulic two way flow system is operating correctly and has sufficient oil of the correct grade (refer to parent machine operating instructions) Check that quick release coupler(s) are correctly engaged to parent machine

TROUBLESHOOTING - FAULT FINDING (CONTINUED)

Auger Drive Unit - Operation		
FAULT	**POSSIBLE CAUSE**	**ACTION**
Trencher drive output shaft does not rotate	Parent machine pressure relief valve faulty or set too low	Test, reset or replace to parent machine's specification
	Trencher unit seized	Seek advice from Skid Pro Attachments
	Trencher jammed in	Reverse trencher chain
Slow trenching speed /slow rotation of trencher unit output shaft	Insufficient oil flow from parent machine	Check that parent machine hydraulic two way flow system is operating correctly and has sufficient oil of the correct grade
	Incompatible trencher unit to parent machine combination	Check specification. Seek advice from Skid Pro Attachments.
	Worn Trencher hydraulic motor possibly due	Seek advice from Skid Pro Attachments. Only use genuine spare parts.
Trencher stalls during work	Parent machine pressure relief valve faulty or set too low	Change parent machine hydraulic oil and filter before fitting replacement
	Restricted oil flow	Reset/replace pressure release valve to parent machine's specification
	Blocked hydraulic filter	Check for damaged or incorrect hydraulic hoses and connections
	Excessive parent machine pull on trencher	Change parent machine filter and oil.
	Insufficient parent machine hydraulic pressure	Reduce machine pull on trencher
	Incompatible trencher/parent machine combination	Check that parent machine oil pressure meets with trencher unit requirements.
	Incompatible trencher/parent machine combination	Check specification. Seek advice from Skid Pro Attachments

SKID PRO ATTACHMENT WARRANTY

Attachments covered under this 24 Month Warranty include:

Angle Broom; Backhoe; Industrial Brush Cutters: Close Front, Open Front, Open Front High Flow; Dozer Blade; 84" Industrial Grapple Rake; 72" Grapple Rake; Land Leveler; Pallet Forks; Skid Hitch; Snow Blade; Snow Blower; Soil Conditioner; Stump Bucket; Tiller; Tree Shear;

Skid Pro warrants above attachments for twenty-four months from date of shipment, to the original owner. Warranty covers products to be free from defects in material and workmanship when properly set up and operated in accordance with Skid Pro's recommendations.

WARRANTY CLAIM PROCEDURE

All warranty claims must be submitted within the manufacturer's limited warranty period. Pictures and/or a video of the failing component(s) are required to properly document all potential warranty claims. To submit a warranty claim, contact your Skid Pro Product Guru or complete a Warranty Claim Form on our website and send it along with supporting pictures/video to sales@skidpro.com. Upon receipt, the warranty claim information will be reviewed and once determined to be a valid claim, a return authorization number will be issued for the return of the defective part(s) if applicable and replacement part(s) will be shipped. If it is determined the defective parts are to be returned and they are not received by Skid Pro within 30 days of receiving the replacement parts, the Buyer will be charged for the cost of the replacement parts plus any shipping charges. Tampering with the failed part (i.e. disassembling a motor or cylinder) will void the warranty.

EXCLUSIONS OF WARRANTY

Skid Pro's requirement for any issue with respect to attachments shall be limited to repairing or replacing the defective part, as this is a parts-only warranty and does not include any labor to replace or install the part or downtime from resulting issue. Skid Pro has full technical support & assistance to assure customer replaces the part properly for optimal performance on attachment.

This warranty shall not apply to any attachment's wear items, or attachments that have been repaired or altered outside the Skid Pro factory in any way, or that has been subject to misuse, negligence or accident beyond Skid Pro's recommended use and/or machine rated capacity.

This warranty is exclusive and in lieu of all other warranties and conditions. Skid Pro disclaims all other warranties and conditions, express or implied, including any implied warranties or conditions of merchantability or fitness for a particular purpose. In no event shall Skid Pro be liable for any special, incidental, indirect or consequential damage, whatsoever, including, but not limited to, loss or interruption of business, lost profits, or loss of machine use, whether based on contract, warranty, tort, negligence, strict liability, statute or otherwise, even if Skid Pro has been advised of the possibility of such damages.

No agent, employee, or representative of Skid Pro has any authority to bind said company to any affirmation, representation, or warranty concerning its machinery and/or attachments except as specifically set forth herein. Any disagreement or dispute of warranty policy or customer expectations of product, soundness, functionality, or performance would take place in Douglas County, Alexandria, MN, where Skid Pro operates.

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