

GORE



OPERATOR'S MANUAL • EN



AUGER DRIVE

INSTALLATION • OPERATION • MAINTENANCE



**ATTACHMENT
WAREHOUSE**

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GORE ENGINEERING

Snickarvägen 14

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Sweden

www.goreengineering.com

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FOREWORD

The machinery directive

The Machinery Directive 2006/42/EC (formerly 98/37/EEC) provides the harmonisation of the essential health and safety requirements for machinery, through a combination of mandatory health and safety requirements and voluntary harmonised standards. Such directives apply only to products that are intended to be placed on or put into service in the market for the first time.

The manufacturer or the authorised representative must draw up a Declaration of Conformity

Declaration of Conformity

Where Auger Drive Units are supplied in conjunction with GORE Engineering LLC manufactured mounting frames and augers to form an Auger Drive Assembly, GORE Engineering LLC has control over the suitability of the parts supplied. To show this and meet with the lawful requirements of the Machinery Directive a Declaration of Conformity is issued and a CE mark is applied to the assembly.

REGISTRATION

For warranty purposes this form must be completed and returned to GORE Engineering within 14 days of purchase by the end user. Alternatively fill in the warranty form directly on www.goreengineering.com and email to warranty@goreengineering.com

GORE Engineering LLC

Snickarvägen 13

132 38 Saltsjö-Boo

Sweden

www.goreengineering.com

warranty@goreengineering.com

MODEL NUMBER:

SERIAL NUMBER:

DATE OF MANUFACTURE:

SUPPLIER/DEALER:

DATE SOLD TO SUPPLIER / DEALER:

DATE SOLD TO ORIGINAL END USER:

OWNER OR OPERATOR:

PARENT MACHINE MAKE & MODEL:

Note; Always reference the serial number in any communication with your supplier/deal

INTRODUCTION

GORE Engineering LLC thanks you for purchasing your new product. This operating manual has been prepared to enable you to operate the equipment in a safe and effective manner.

Warning, 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 your GORE Engineering LLC dealer or direct from GORE Engineering LLC.

GORE Engineering LLC Earth Eater Auger Drive Units have been designed for use with specific parent machines along with the GORE Engineering LLC range of mounting frames augers, auger extensions and auger wearparts. Provided these are used and maintained correctly they will provide a safe and reliable method of drilling holes in the ground.

GORE Engineering LLC Earth Eater Auger Drive Units reserves the right to alter its specifications at any time without notice or obligation. The company accepts no responsibility for discrepancies which may occur between specifications of its machines and descriptions thereof contained in its publications.

When ordering spare parts please quote the serial number of the drive unit, 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 auger drive unit.

If you are in any doubt as to any of the instructions or information provided you must contact your dealer or GORE Engineering LLC before attempting to use the auger drive unit.

SAFETY PRECAUTIONS

Never operate or assemble the auger drive without fully understanding the operating instructions of both the auger drive unit and the parent machine. GORE Engineering LLC recommend you receive dealer instruction before operating the auger drive unit.

Never operate the auger drive unless you are in good physical condition and mental health.

Never operate the auger drive under the influence of any substance (including drugs & alcohol), which might impair vision, dexterity or judgement.

Always survey the work area before work. Drilling in 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 its engine switched off before carrying out any maintenance work.

Never operate the auger drive with worn, damaged or missing parts. Only use genuine replacement parts.

Never allow bystanders (including animals) within 6 metres of the work area or allow minors to operate the auger drive unit.

Never drill beyond the length of the auger

Never expose fuel or lubricants to any possible source of ignition.

Always protect yourself and the environment. Hydraulic oil, lubricants and exhaust fumes are toxic.

Always tie back long hair and remove jewellery before work. Wear suitable clothing that is closely fitting whilst allowing freedom of movement.

Never wear clothing that could become entangled with the auger or its drive.

Always protect hands - auger 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 boots (non-slip soles and steel-toe are recommended). Auger and drive parts are heavy and sharp.

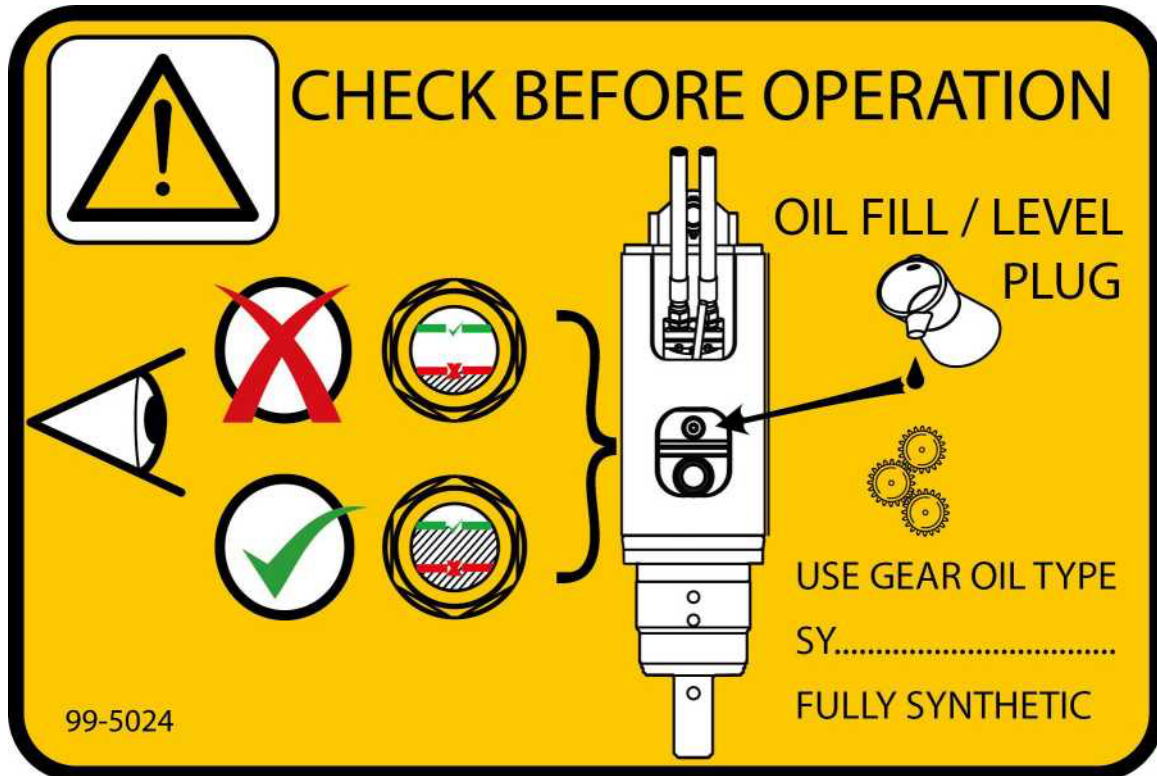
Always wear head protection and eye protection when working with the auger drive.

Always follow parent machine instructions regarding noise protection

DAILY CHECK FOR LARGER UNITS

Special note: This page applies only to models: G20 000 and above

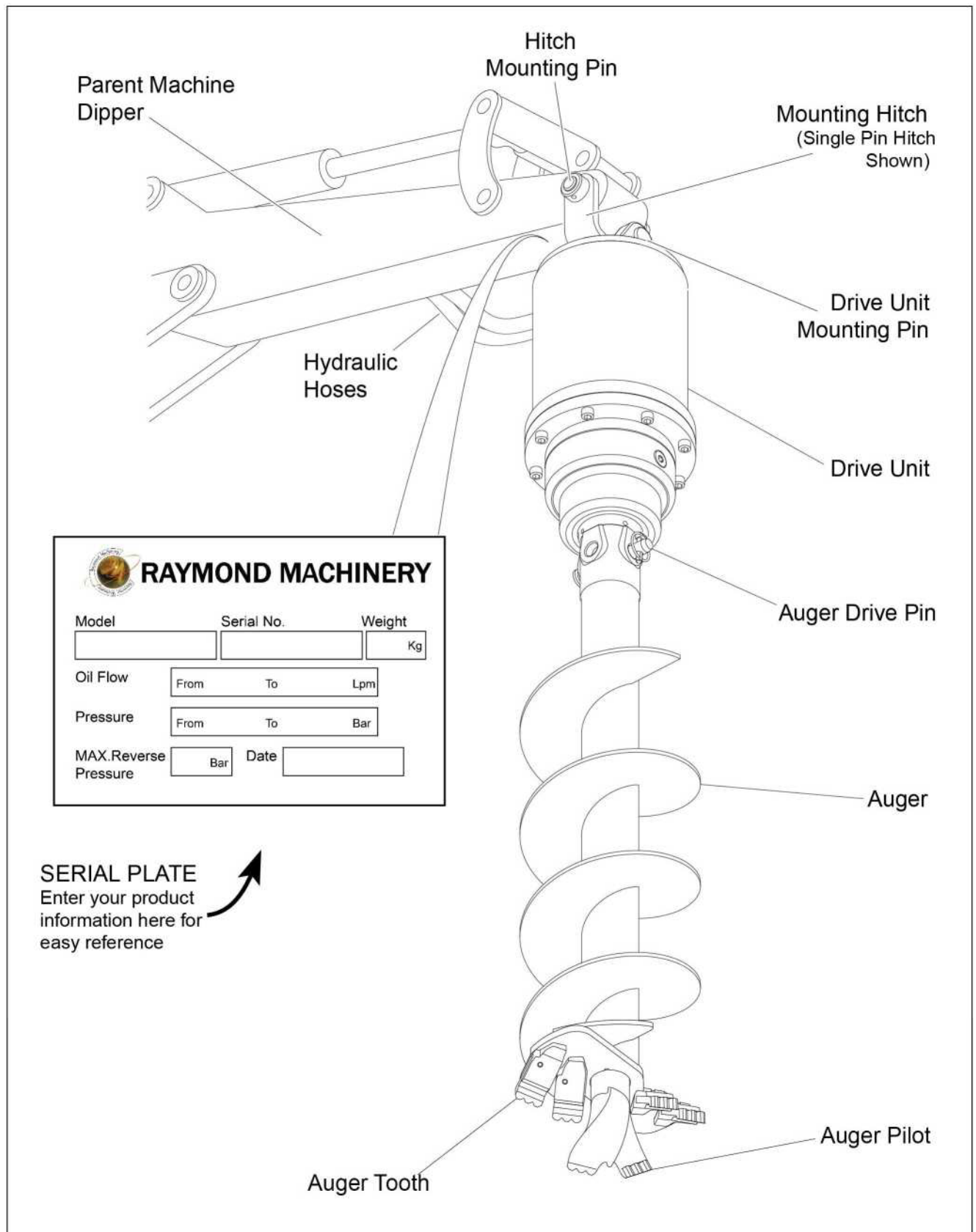
The following daily check **MUST** be carried out prior to any operation of the auger drive unit.



OIL LEVEL CHECK LABEL

1. With the auger drive unit in a vertical and secure position, check for visible signs of oil in the sight glass.
2. If the sight glass is fully filled with oil, the unit is filled to an acceptable level
3. If the sight glass is only partially filled with oil, top up using the oil fill/level point, until the acceptable level is achieved. Ensure that the correct grade of oil is used. This information can be found on the above illustration and on the auger drive unit.

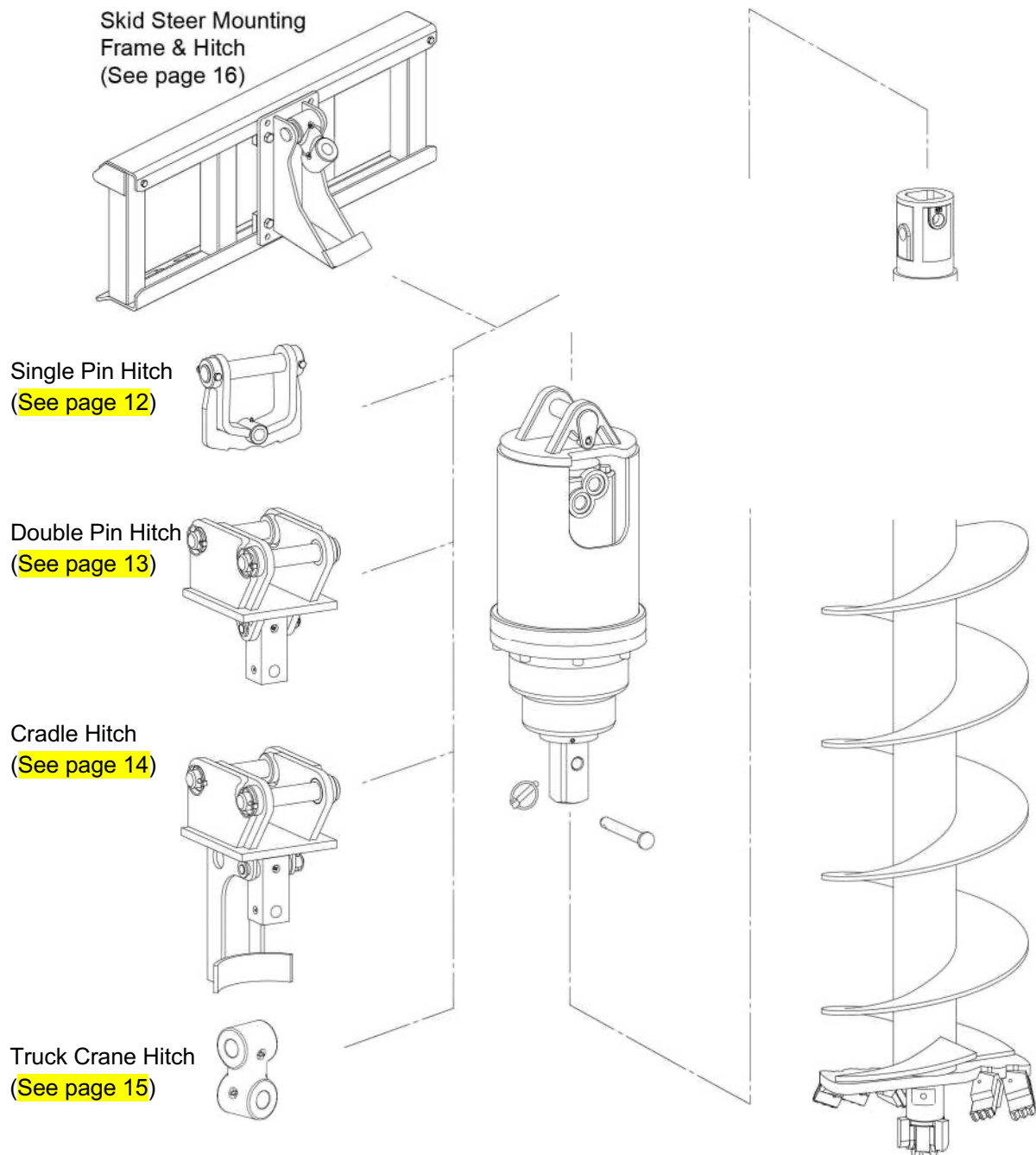
IDENTIFICATION - MAIN PARTS



IDENTIFICATION - ATTACHMENT PARTS

ALWAYS work in pairs (2 skilled operatives) whenever auger drive unit components are being assembled or disassembled from the parent machine. Always check the weight of the attachment and ensure you have the correct equipment for handling it.

First fit the mounting frame to the parent machine. Use the illustration below to find the correct fitting instructions for your machine.



MOUNTING FRAME FITTING - Single Pin Hitch

SAFETY FIRST

ALWAYS work in pairs (2 skilled operators) whenever auger drive unit components are being assembled or disassembled 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 positioned correctly on flat ground
- Has its hand brake ON, its hydraulic circuit locked out and its engine switched OFF.

Check that the mounting frame is of the correct model and type to fit the parent machine. Ensure mounting frame and attachment points are clean before fitting. Use suitably rated lifting equipment if required (see data plate for weight). Ensure all components are lubricated on assembly:



Set the auger drive unit horizontally, with the output shaft towards the parent machine as in fig A.

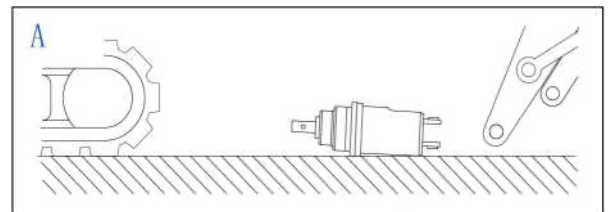
There are two types of pin for fitting the hood to the mounting frame (1)

The threaded mounting pin (fig B) has a locating plate, with a hole that fits on a peg in the hood ear. Align the pin holes, fit the pin (2), washer (3) and nylon insert nut (4) and torque to 100 Nm.

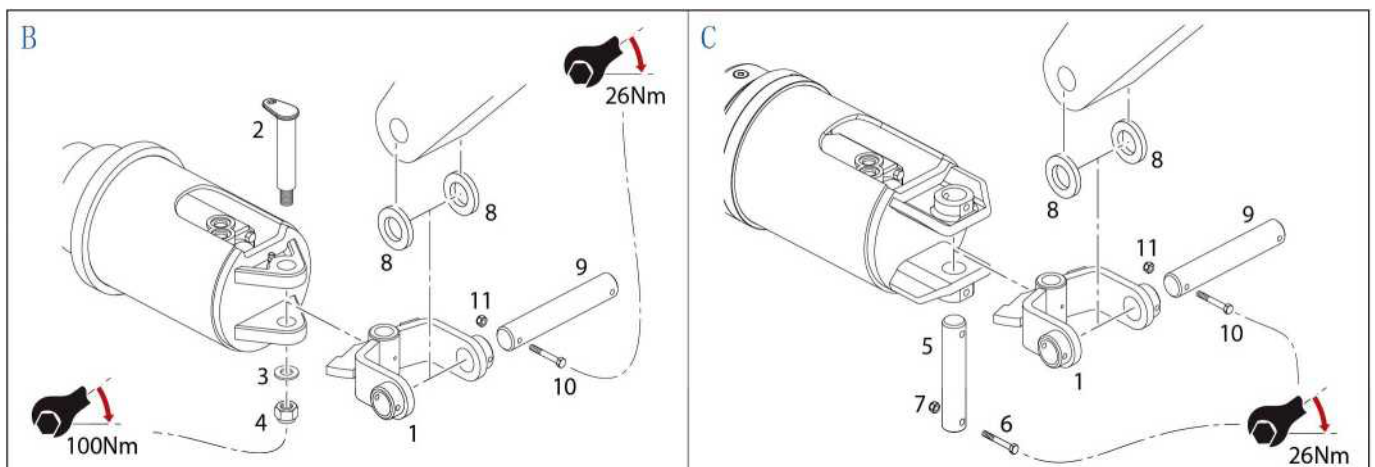
To fit the through-bolted mounting pin (fig C) Align the pin holes and push the pin (5) fully home pay attention to line up the through bolt holes. At both ends of the pin fit the through bolts (6) and nylon insert nuts (7) and tighten to 26 Nm.

Fitting to the parent machine is with through-bolted pins in all cases:

Align the pin holes of the mounting frame (1) and parent machine. Align bolt location holes, fit spacers (8) if required to centralise the frame. Push the pin (9) fully home, pay attention to line up the through bolt holes. Fit the through bolts (10) and nylon insert nuts (11) and tighten to 26 Nm.



Once fitted, check the drive unit swings freely in all directions.



MOUNTING FRAME FITTING - Double Pin Hitch

SAFETY FIRST

ALWAYS work in pairs (2 skilled operators) whenever auger drive unit components are being assembled or disassembled 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 positioned correctly on flat ground
- Has its hand brake on, its hydraulic circuit locked out and its engine switched off.

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

Ensure mounting frame and attachment points are clean before fitting.

Use suitably rated lifting equipment if required (see data plate for weight). Ensure all components are lubricated on assembly:

Set the auger drive unit horizontally, with the output shaft towards the parent machine as in fig A.

There are two types of pin for fitting the hood to the mounting frame(1)

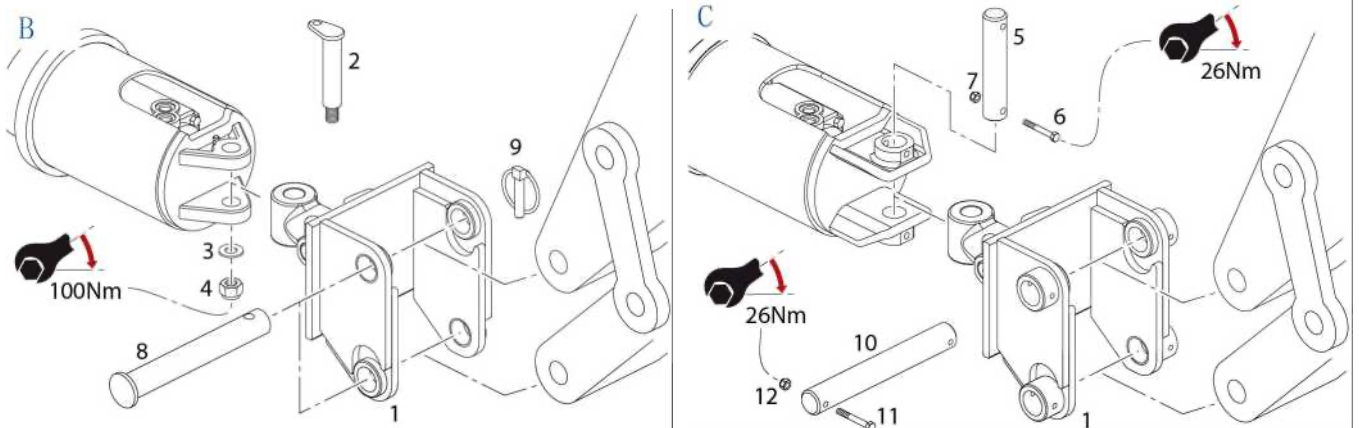
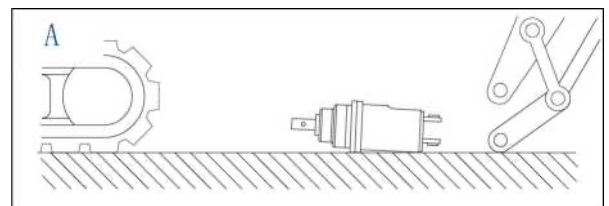
Threaded mounting pin (fig B) has a locating plate, with a hole that fits on a peg in the hood ear. Align the pin holes, fit the pin (2), washer (3) and nylon insert nut (4) and torque to 100 Nm.

To fit the through-bolted mounting pin (fig C) align the pin holes and push the pin (5) fully home, pay attention to line up the through bolt holes. At both ends of the pin fit the through bolts (6) and nylon insert nuts (7) and tighten to 26 Nm.

There are two types of pins for fitting the mounting frame (1) to the parent machine:

To attach a linch pin fitting (fig B), align the pin holes, push the pin (8) fully home and fit the linch pin (9)

To fit the through-bolted mounting pin (fig C), align the pin holes and push the pin (10) fully home taking care to line up the through bolt holes, fit the through bolts (11) and nylon insert nuts (12) and tighten to 26 Nm.



MOUNTING FRAME FITTING - Cradle Hitch

SAFETY FIRST

ALWAYS work in pairs (2 skilled operators) whenever auger drive unit components are being assembled or disassembled from the parent machine. Always check the weight of the attachment and ensure you have the correct equipment for handling

ALWAYS check parent machine:

- Is in correct working order
- Is positioned correctly on flat ground
- Has its hand brake ON its hydraulic circuit locked out and its engine switched OFF. Check that the mounting frame is of the correct model and type to fit the parent machine. Ensure mounting frame and attachment points are clean before fitting.

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

Ensure all components are lubricated on assembly: DIN 51502

Set the Auger Drive Unit horizontally in the cradle hitch, with the output shaft towards the parent machine as in Fig A.

There are two types of pin for fitting the hood to the mounting frame(1)

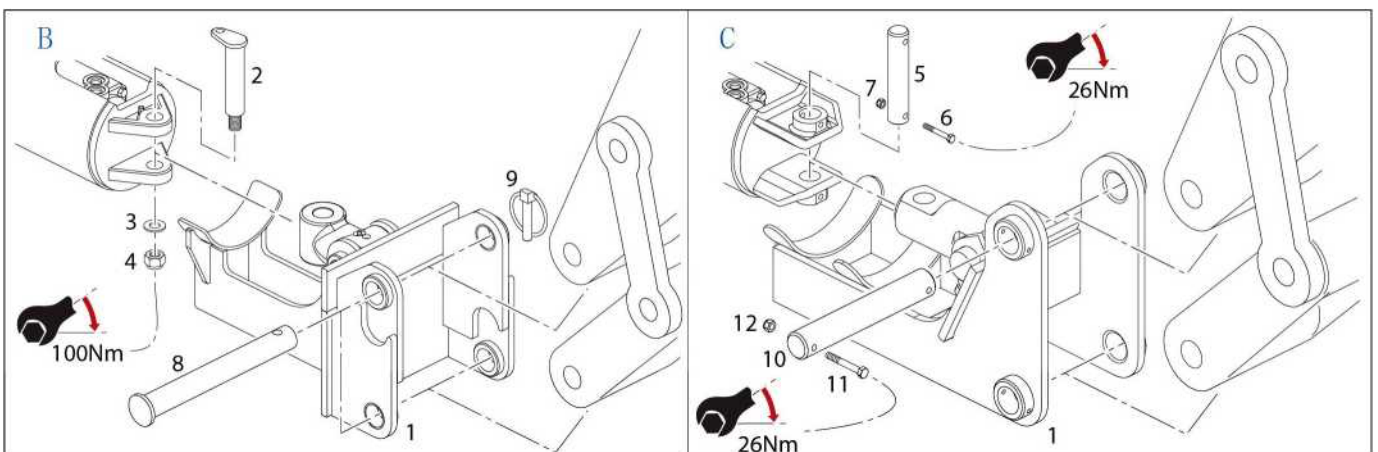
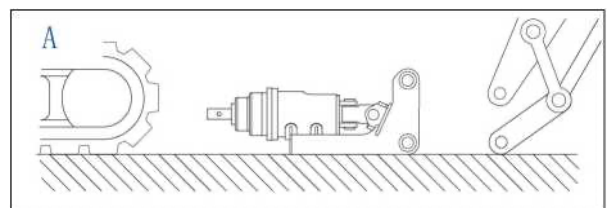
The Threaded Mounting Pin(fig B) has a locating plate, with a hole that fits on a peg in the hood ear. Align the pin holes, fit the pin (2), washer (3) and nylon insert nut (4) and torque to 100 Nm.

To fit the Through-Bolted Mounting Pin (Fig C), align the pin holes and push the Pin (5) fully home paying attention to line up the through bolt holes. At both ends of the pin fit the through bolts (6) and nylon insert nuts (7) and tighten to 26 Nm.

There are two types of pin for fitting the mounting frame (1) to the parent machine:

To attach a Linch Pin fitting (fig B), align the pin holes, push the pin (8) fully home and fit the linch Pin (9)

To fit the Through-Bolted Mounting Pin (Fig C), align the pin holes and push the Pin (10) fully home paying attention to line up the through bolt holes, fit the Through Bolts (11) and Nylon Insert Nuts (12) and tighten to 26 Nm.



MOUNTING BLOCK FITTING - Truck Crane

SAFETY FIRST

ALWAYS work in pairs (2 skilled operators) whenever auger drive unit components are being assembled or disassembled 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 positioned correctly on flat ground
- Has its hand brake ON, its hydraulic circuit locked out and its engine switched OFF.

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

Ensure mounting frame and attachment points are clean before fitting. Use suitably rated lifting equipment if required (see data plate for weight).

On Truck Cranes, the Auger Drive is attached via a Mounting Block.

The Mounting Block fits between the hook attachment ears.

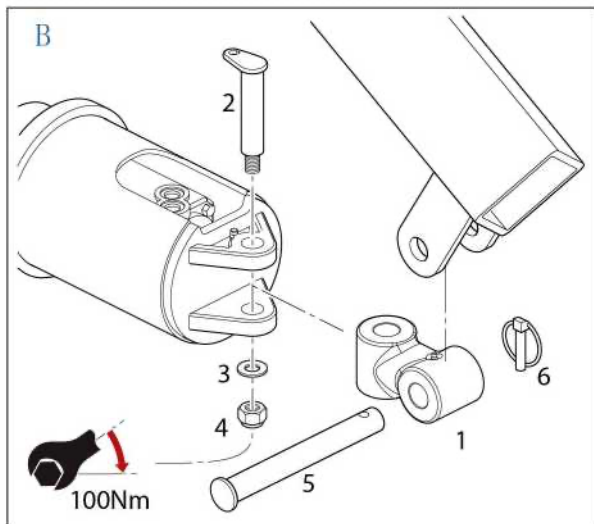
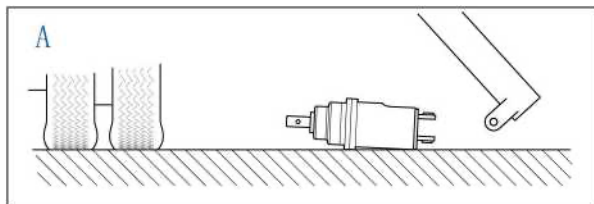
Ensure all components are greased on assembly:

Set the Auger Drive Unit horizontally, with the output shaft towards the parent machine as in Fig A.

The Threaded Mounting Pin has a locating plate with a hole that fits on a peg in the hood ear Fig B

Align the pin holes in the hood ears and Mounting Block (1), fit the Pin (2), Washer (3) and Nylon Insert Nut (4) and torque to 100 Nm.

Align the holes in the Mounting Block (1) with the attachment ears on the parent machine Fig B. Insert the mounting pin (5) and spring clip (6) Once fitted, check that the Mounting Block swings freely.



MOUNTING FRAME FITTING - Skid Steer Loader

SAFETY FIRST

ALWAYS work in pairs (2 skilled operators) whenever auger drive unit components are being assembled or disassembled 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 positioned correctly on flat ground

Has its hand brake ON, its hydraulic circuit locked out and its engine switched OFF.

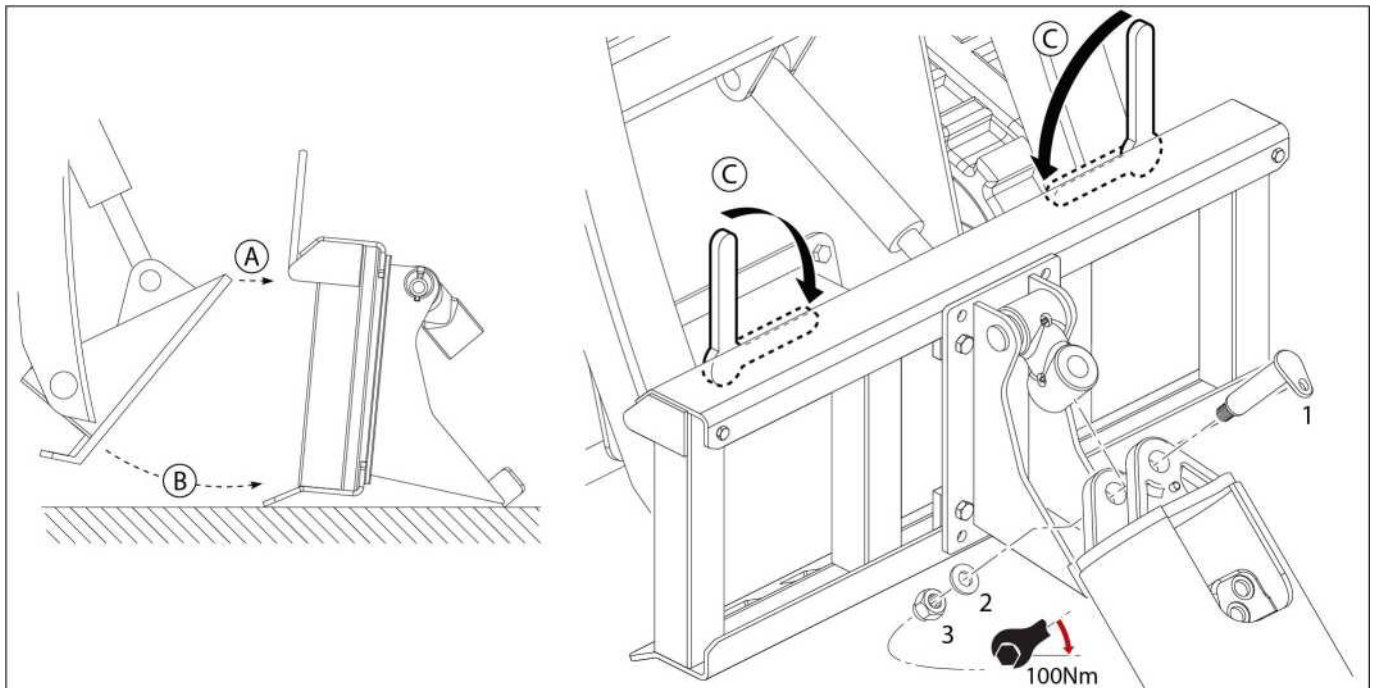
Check that the mounting frame is of the correct model and type to fit the parent machine. Ensure mounting frame and attachment points are clean before fitting

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

FITTING (Fig15.1) Ensure all components are lubricated on assembly:

- A. Slot the top of the Skid Steer Frame under the top edge of the Mounting Frame
- B. Swing the Skid Steer Frame to the vertical position
- C. Push the locking levers down fully to engage the locking bolts

The Threaded Mounting Pin has a locating plate with a hole that fits on a peg in the hood ear. Align the pin holes, fit the Pin (1) Washer (2) and Nylon Nut (3) and torque to 100 Nm.



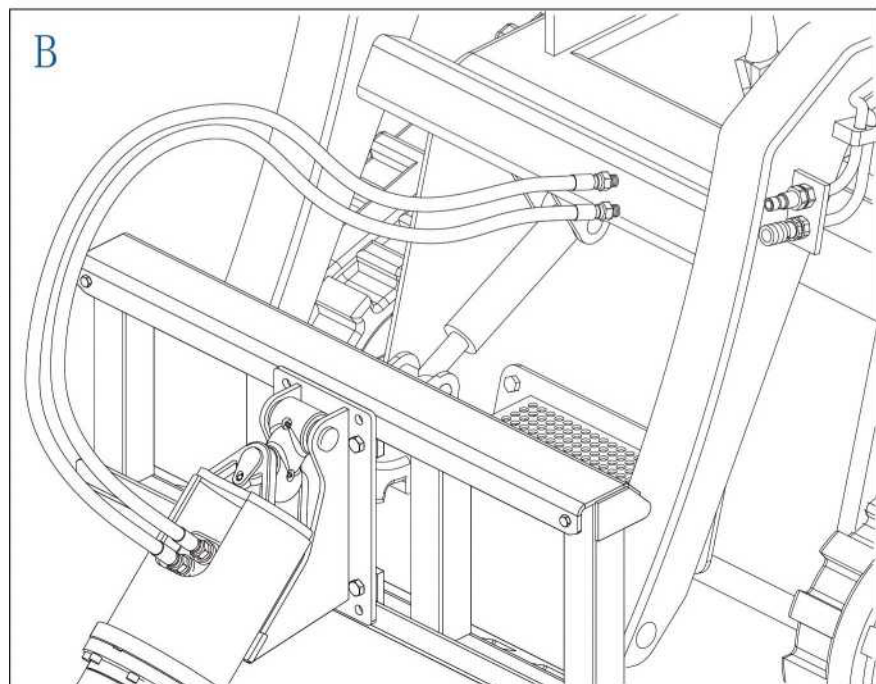
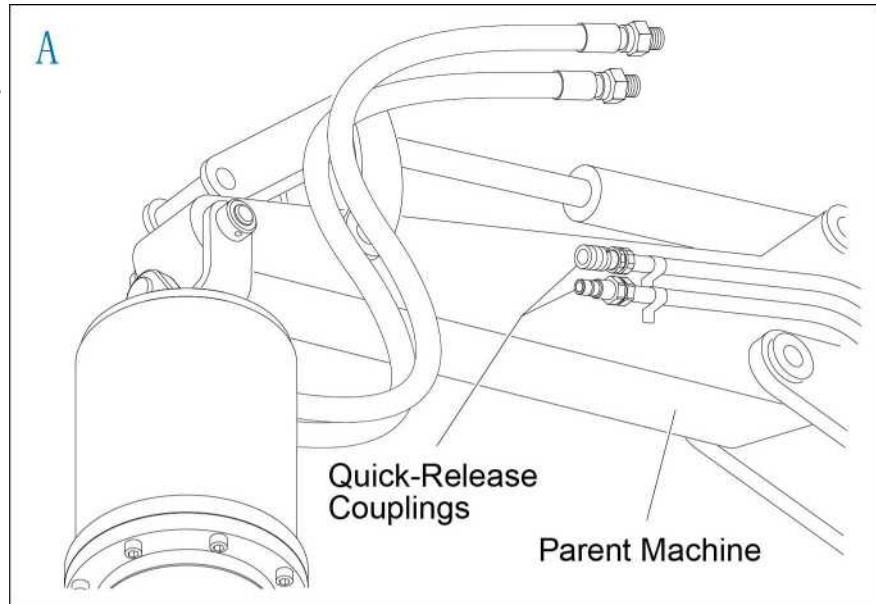
HYDRAULIC CONNECTIONS

GORE Engineering LLC Drive Units have been designed for use with specific GORE Engineering mounting frames, augers, auger extensions and auger wearparts. Provided these are used and maintained correctly, they will provide a safe and reliable method of drilling holes in the ground. Auger Drive Units require a 'flow' and return⁷ of hydraulic oil from the parent machine's auxiliary hydraulic power supply to operate. All gearboxes are reversible, but require the host machine to be fitted with a two-way flow auxiliary circuit. (Check with parent machine dealer for advice). Ensure that the drilling rotation of the Auger Drive Unit is clockwise.

Some models of Auger Drive Units are supplied with hydraulic hoses (Figs A & B), but less the hydraulic Quick Release Coupler, which are required for connection to the 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, excavator clipper or truck crane booms.

Ensure that the Mounting Pins are lubricated.

It is critical that the supply of oil is within the stated limits for the particular drive unit; Flow (l/min) & pressure (bar).



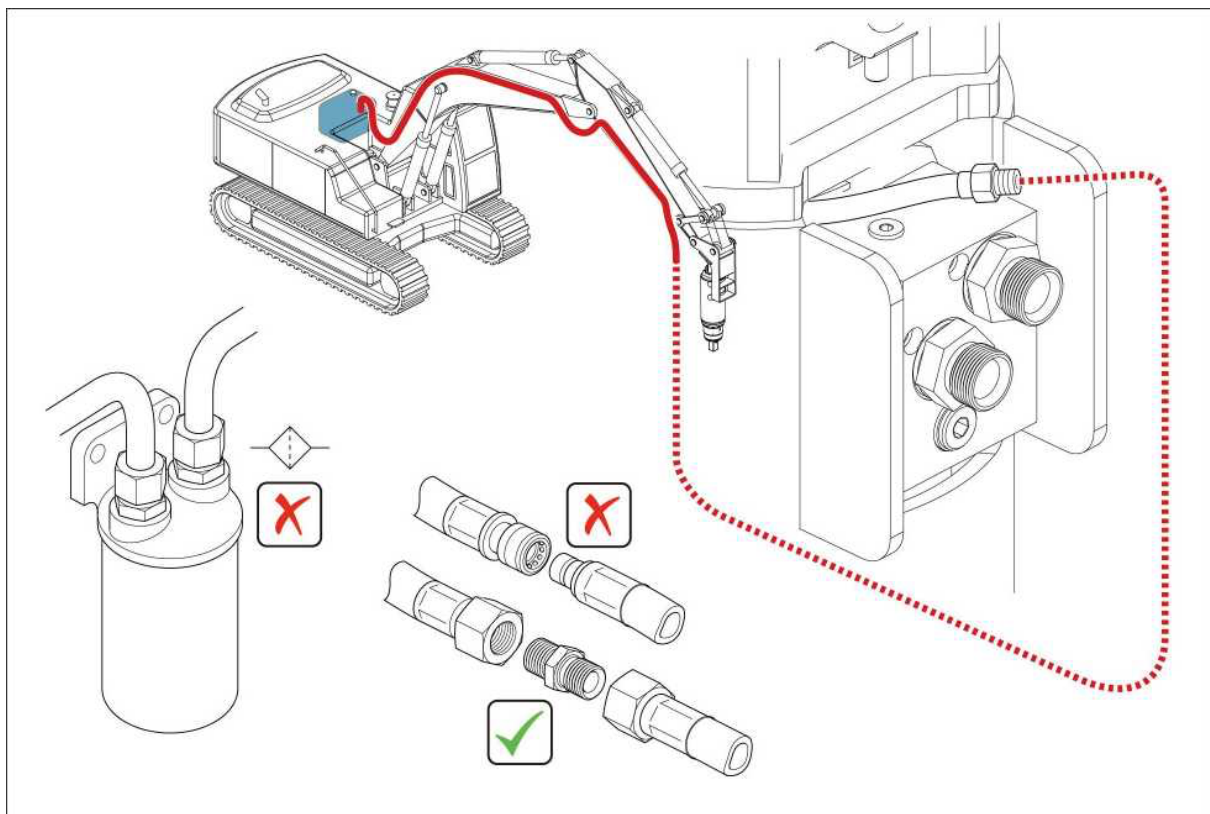
HYDRAULIC CONNECTIONS

Case drain line fitting

Some of the larger Auger drive units are fitted with a case drain line.

This is a flexible hose protruding from the drive unit hood and must be connected to a line that returns to the machine's hydraulic fluid reservoir. The parts required to complete this circuit will vary, depending on the machine and the hydraulic equipment fitted. Consequently, case drain hose fittings are not supplied with the auger drive and must be sourced separately.

When fitting a case drain line, there must be no restrictions to the flow between the drive unit and the reservoir. There can be no filter in the route and no quick-release couplings.



FITTING THE AUGER

SAFETY FIRST

ALWAYS work in pairs (2 skilled operators) whenever Auger Drive Unit components are being assembled or disassembled from the parent machine.

ALWAYS check parent machine: • Is in correct working order



Is positioned correctly on flat ground •
Has its hand brake ON, its hydraulic circuit locked out and its engine switched OFF

CHECK that the Auger is the correct model and type to fit the Auger Drive Unit.

ENSURE that the Auger connections are clean before fitting.

USE suitably rated lifting equipment if required (see data plate for weight).

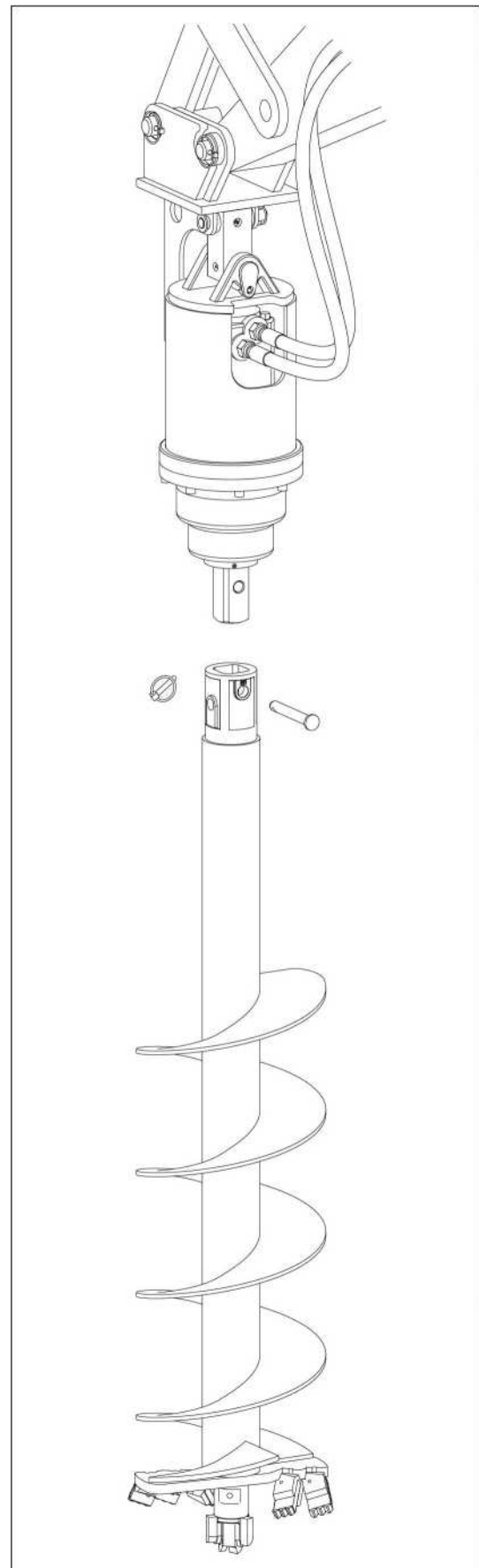
Position the Auger in the vertical work position and support it so that it cannot fall over.

Position the Drive Unit over the Auger and align the pin holes.

Lower the Auger Drive Unit onto the Auger

Locate the Auger drive pin

Secure the Auger drive pin with linch pin



PREPARATION

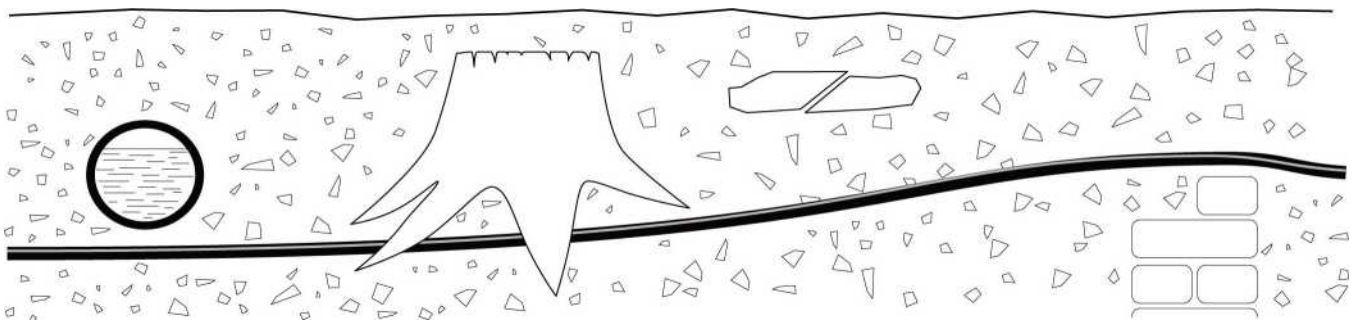
ASSESS the topography (e.g. risk of subsidence, slope angle, position to embankments and any previous excavation).

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

ALWAYS carry out a site and risk assessment BEFORE starting to 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.



RUNNING-IN

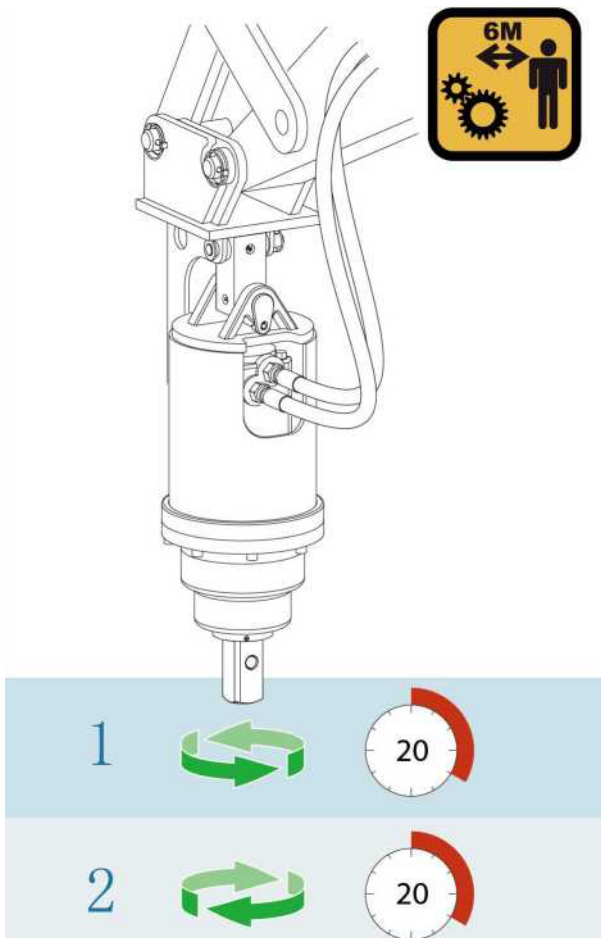
To maximise the life of the motor, it must be run in for a period .

To carry out the running in procedure, suspend the drive unit in it's vertical, working position.

For the duration of the running in procedure, ensure that no bystanders can get within 6 metres 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 24](#) for lubrication instructions.



WORKING PROCEDURE

SET Auger in a vertical drilling position (Fig A). ENSURE the direction of rotation of the auger for drilling is CLOCKWISE.

ONLY start drilling after a site assessment on a premarked safe location (see page 20).

GRADUALLY lower the parent machine arm(s) to apply down force to the auger

The harder the ground the more down force required.

Maintain drilling speed.

DO NOT

CONTINUALLY STALL the auger drive unit with excessive down force, as this will overheat the hydraulic oil and could damage the machine.

Keep the auger vertical;

For skid steer machines (Fig B);

Adjust the angle of the arms, mounting frame and the position of the parent machine as necessary.

For excavators (Fig C);

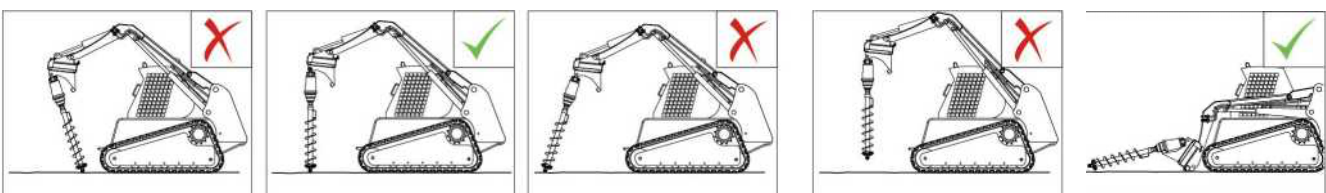
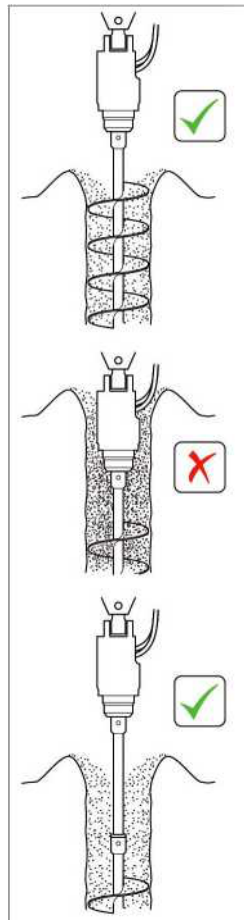
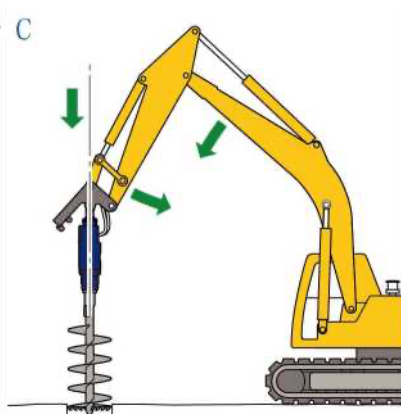
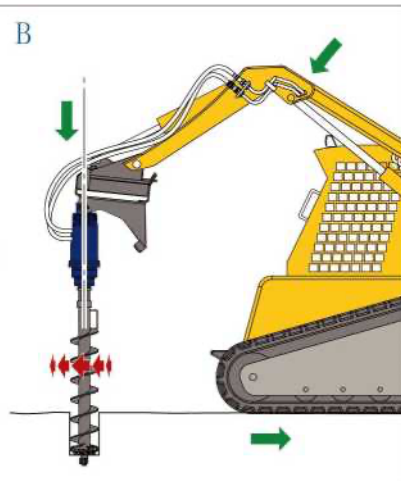
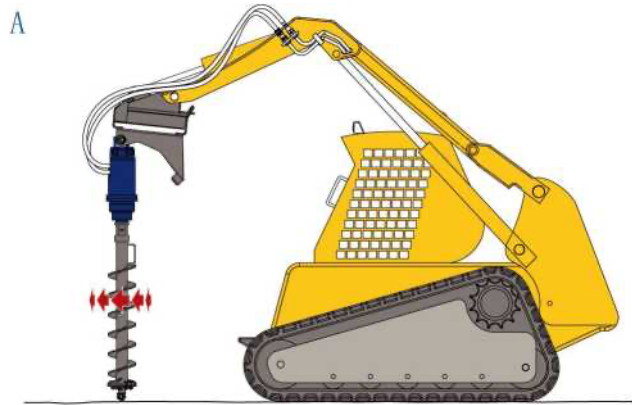
Adjust the angle of the dipper and boom.

MAXIMISE efficiency and avoid damaging the auger assembly by keeping the auger vertical

REGULARLY rise the auger out of the ground to clear material from the auger.

This will help maintain drilling effectiveness and ensure your machine does not become unstable.

NEVER Drill beyond the length of the auger. NEVER leave the auger assembly suspended. ALWAYS park with the auger on the ground.



TRANSPORTATION

When attached to the parent machine the standard Auger Unit is free to swing and can be extremely dangerous during transport.

TRANSPORTATION ON PUBLIC HIGHWAYS:

ALWAYS remove the Auger and Drive Unit before driving or transporting the parent machine on public highways.

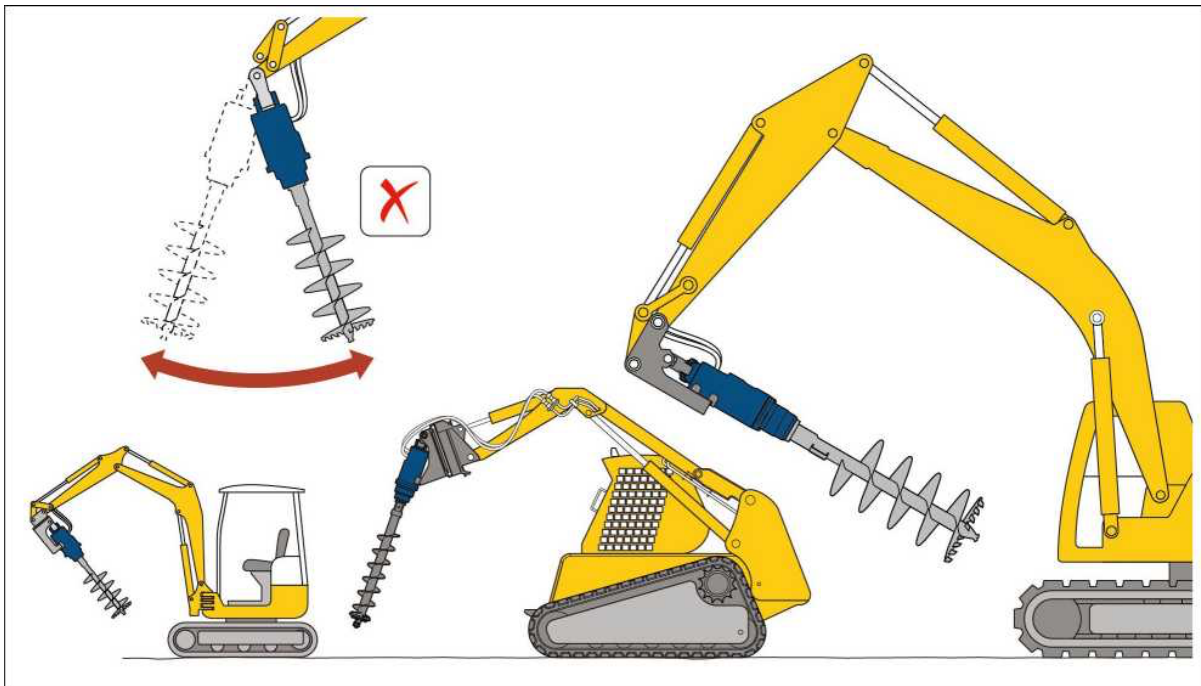
ALWAYS store the Auger and Drive Unit securely and safely when removed from the parent machine taking special care of the hydraulic hoses and connections.

TRANSPORTATION WITHIN THE JOB SITE:

ALWAYS operate the parent machine slowly when on site taking great care to avoid the Auger swinging.

RECOMMENDED: where fitted use the hitch cradle to support the Auger Drive Unit when manoeuvring or slewing when on site.

CRADLE HITCH SUPPORT



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.)

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

Avoid contact with skin and eyes:

Wear suitable protective clothing and gloves.

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

Always wear eye protection:

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 ingest:

If swallowed seek medical advice immediately.

MAINTENANCE & LUBRICATION

Your GORE Engineering LLC Auger Drive Unit features a sealed gear housing filled with gear oil to lubricate the planetary gearset components and bearings within the housing.

GORE Engineering LLC Auger Drive Units are low maintenance, however regular checks for oil leaks and following the service schedules are recommended to ensure a trouble free product.

Weekly:

Lubricate hitch and drive unit pivot pins.

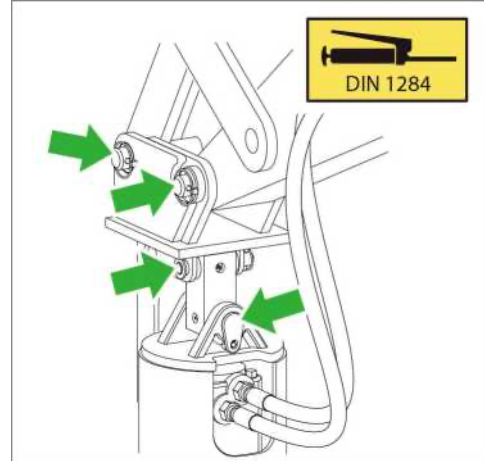
After first 100 hours of use or six (6) months:

To maximise life and maintain warranty the Auger Drive Unit gear oil requires draining and replacing with suitable gear oil, please refer to your parts list for correct grade and volumes, after the first 100 hours of use or six (6) months from date of purchase - whichever occurs first.

Important: To maintain product warranty your GORE Engineering LLC dealer must record proof of this first oil change.

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

The Auger Drive Unit gear oil requires draining and replacing with suitable gear oil, please refer to your parts manual for correct grade and volumes, every twelve (12) months or 500 hours - whichever occurs first.



PROOF OF FIRST SERVICE

Dealer Name

Date Serviced

MAINTENANCE & LUBRICATION

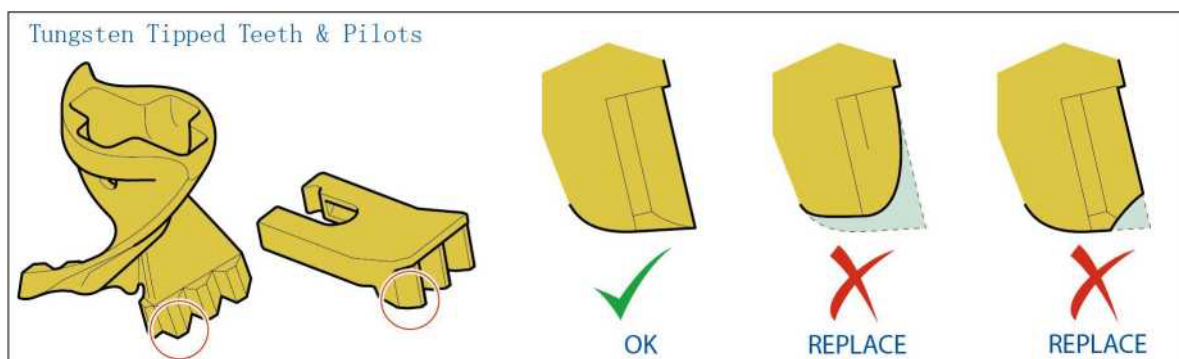
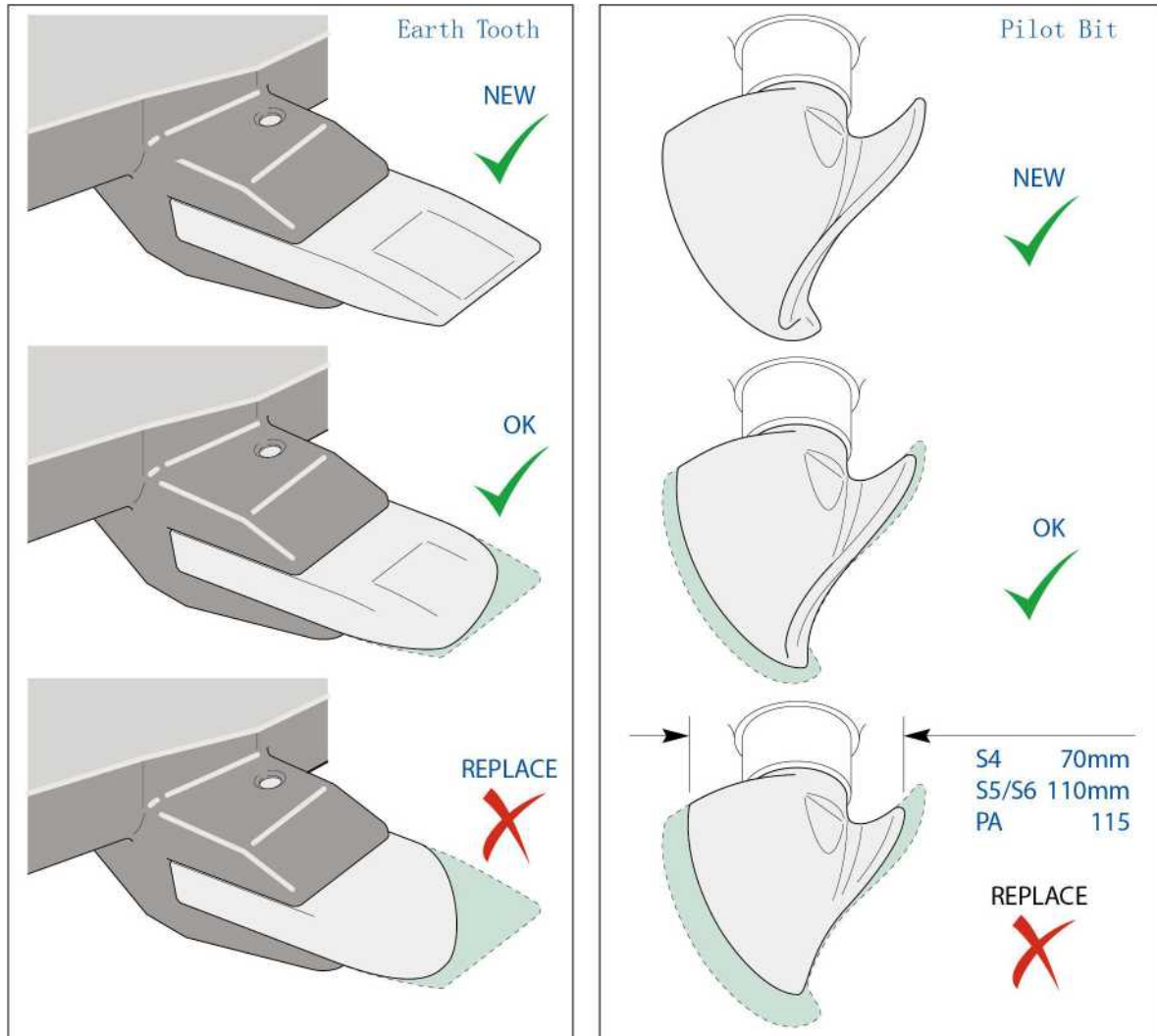
Recommended Lubricants						
Model	Oil quantity (ML)	Grade	Manufacturer		Planetary	Type
			Millers	Mobil		
G2000	400	EP320	EP320	600series	Yes	Mineral
G2500	400	EP320	EP320	600series	Yes	Mineral
G3000	850	EP320	EP320	600series	Yes	Mineral
G3500	800	EP320	EP320	600series	Yes	Mineral
G4500	800	EP320	EP320	600series	Yes	Mineral
G5000	1200	EP320	EP320	600series	Yes	Mineral
G5500	1200	EP320	EP320	600series	Yes	Mineral
G6000	1200	EP320	EP320	600series	Yes	Mineral
G7000	1200	EP320	EP320	600series	Yes	Mineral
G8000	1200	EP320	EP320	600series	Yes	Mineral
G10000	2500	EP320	EP320	600series	Yes	Mineral
G12000	2500	EP320	EP320	600series	Yes	Mineral
G15000	2500	EP320	EP320	600series	Yes	Mineral
G20000	6000	EP320	EP320	600series	Yes	Mineral
G25000	6000	EP320	EP320	600series	Yes	Mineral
G30000	7500	SY320	SY320	600series	Yes	Mineral
G50000	9000	SY320	SY320	600series	Yes	Mineral

All units are supplied with 320 viscosity oil unless otherwise requested. When using the units below -25 degrees Celsius a 150 viscosity oil must be used. When using units above 35 degrees Celsius a 460 viscosity oil must be used.

COMPONENT WEAR

The cutting teeth and pilot should be checked regularly for wear. The diagrams below show acceptable levels of wear.

NOTE; Excessively worn teeth & pilots may cause damage to the auger



TROUBLESHOOTING

IF IN DOUBT ASK! - Seek GORE Engineering LLC parent machine dealer for advice & repair.

BE SAFE - only use genuine GORE Engineering LLC parent machine spare parts.

MOUNTINGFRAME - ASSEMBLY		
FAULT	POSSIBLE CAUSE	ACTION
Mounting frame does not fit parent machine	Incorrect or non-genuine mounting frame being used Damaged / worn parts	Refer to both this manual and parent machine's operating assembly instructions Repair or replace with genuine mounting frame
MOUNTINGFRAME - 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 GORE Engineering parent machine dealer. Only use genuine spare parts
AUGERDRIVE UNIT ASSEMBLY		
FAULT	POSSIBLE CAUSE	ACTION
Auger Drive Unit will not fit mounting frame	Incorrect/incompatible or non genuine mounting frame/ Auger Drive Unit Damaged parts	Obtain & fit correct and compatible genuine parts Seek advice from GORE Engineering LLC dealer. Only use genuine spare parts
Excessive movement in locating pins	Incorrect or worn pins	Replace with correct new genuine parts
AUGERDRIVE UNIT - OPERATION		
FAULT	POSSIBLE CAUSE	ACTION
Auger drive output shaft does not rotate	No oil flow	Check that quick release coupler(s) are correctly engaged to parent machine Check that parent machine hydraulic system is operating correctly and has sufficient oil of the correct grade (refer to parent machine operating instructions)

TROUBLESHOOTING -continued

AUGERDRIVEUNIT - OPERATION(Cont.)		
FAULT	POSSIBLE CAUSE	ACTION
Auger 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
	Auger Drive Unit seized	Seek advice from Changzhou RAYMOND Precision Machinery Co.,Ltd dealer
Slow digging speed / slow rotation of	Auger jammed in ground	Remove Auger from ground before starting machine
Auger Drive output shaft	Insufficient oil flow from parent machine	Check that parent machine hydraulic system is operating correctly and has sufficient oil of the correct grade
	Incompatible Auger Drive to parent machine combination	Check specification. Seek advice from Changzhou RAYMOND Precision Machinery Co.,Ltd dealer
	Incorrect Auger, boring teeth or pilot fitted or worn boring teeth/pilot	Ensure Auger size is compatible with Auger Drive Unit (not too large) and that boring teeth/pilot are suitable for the ground conditions and not worn
	Worn Auger Drive hydraulic motor possibly due incorrect or dirty oil supply	Seek advice from Changzhou RAYMOND Precision Machinery Co.,Ltd dealer. Only use genuine spare parts. Change parent machine hydraulic oil and filter before fitting replacement drive unit
Auger stalls during work	Parent machine pressure relief valve faulty or set too low	Reset/replace pressure release valve to parent machine's specification
	Restricted oil flow	Check for damaged or incorrect hydraulic hoses and connections.
	Blocked hydraulic filter	Change parent machine filter and oil.
	Excessive parent machine down force on Auger	Reduce down force
	Insufficient parent machine hydraulic pressure	Check that parent machine oil pressure meets with Auger Drive Unit requirements
	Incompatible Auger Drive / Auger size / parent machine combination	Check specification. Seek advice from GORE Engineering LLCdealer

WARRANTY STATEMENT

All new GORE Engineering LLC products are warranted to be free from defects in material and workmanship, which may cause failure under normal usage and service when used for the purpose intended.

GORE Engineering LLC warrants its equipment for a period of twenty four (24) months dating from delivery to original user. This warranty covers faulty workmanship and defective parts manufactured by GORE Engineering LLC. Liability is limited to repair or replacement of faulty parts at the discretion of GORE Engineering LLC.

The Warranty does not cover the following:-

1. Normal wear and tear.
2. Faults or failures due to incorrect dealer assembly, pre delivery inspection or installation.
3. Faults or failures due to use under load conditions greater than the design specification.
4. Hydraulic hoses or ground engaging parts such as auger flight, boring teeth or pilot.
5. Transportation costs of parts.
6. Consequential loss of any description.

GORE Engineering LLC equipment must be operated in accordance with the recommended procedures and within the ranges specified on the Auger Drive Unit and stated in the operating manual.

Any claims under this warranty must be made in writing within fourteen (14) days of the fault occurring. Any claims not received by GORE Engineering LLC within 14 days may be deemed invalid.

GORE Engineering LLC is not responsible for nor will accept any charges for work carried out by any unauthorised repairers. Charges, including those for spare parts, will not be accepted unless they have been authorised in writing by GORE Engineering LLC.

Any goods returned to GORE Engineering LLC by the customer, under warranty or for repair, must be freight paid unless authorised in writing by GORE Engineering LLC.