



**EARTHMOVING
WAREHOUSE**

MINI AUGER DRIVE

OPERATORS MANUAL

PM-000114-A



CRITICAL - DO NOT CONNECT OR OPERATE YOUR DRIVE UNIT WITHOUT FIRST HAVING READ AND UNDERSTOOD THIS STATEMENT

Your Digga Mini Planetary Drive Gearbox is a high performance attachment that is designed for Drilling, and Screw Anchoring Mini (Pier) installation. To avoid premature wear and failure, and to fulfill your terms of warranty please read this statement.

All **DIGGA PLANETARY DRIVES** must have a first oil change within the **first 30hrs (extreme use) or 50hrs (Moderate use) or 3mths** of use (which ever comes first) to ensure the “bed in” of the drive unit. For more detailed information please read pages 26 - 27

If the first oil change is not performed within this period excessive wear within the gearbox will occur that will cause premature failure. All Warranty will be void.

Oil must then be changed thereafter every 300/500hrs and a full service every 12mths must be performed by an authorised service agent to ensure Warranty requirements are met.

In the event of a failure under the warranty period:

- Contact Digga immediately, **DO-NOT DISASSEMBLE YOUR DRIVE**, without first obtaining written permission and instructions from Digga.
- Proof of service must be provided in hard copy form of both operational and service history (including serial number of gearbox and hydraulic motor) records. Service must be performed by an **authorised Digga service agent**.

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THANK YOU

Congratulations on the purchase of your new Digga Mini Auger Drive. This product was carefully designed and manufactured to give you years of dependable service. It is mandatory that oil changes are performed at the specified interval to keep it in top working condition (maintenance - chapter 11).

The complete manual must be read and understood before connecting and operating. Be sure to observe all safety precautions and maintenance procedures as described in this manual.

Optional Extras are available for special applications or extreme conditions: these are noted throughout the manual. Contact your DIGGA dealer for any further information pertaining to this product or for further information on other products available in the DIGGA range.

ABOUT THIS MANUAL

This manual has been designed to help you do a better, safer job. **Read this manual carefully and become familiar with its contents before connecting and operating.**

Remember; never let anyone operate this unit without reading the “Safety Precautions” and “Operating Instructions” sections of this manual. Unless noted otherwise, right and left sides are determined from the position of the machine operator when facing forward.

DIGGA www.digga.com	○	CE	DIE-000093 MADE IN AUSTRALIA
Model	<input type="text"/>		
Serial No.	<input type="text"/>		
Flow (max)	<input type="text"/>		
Pressure (max)	<input type="text"/>		
Power	<input type="text"/>		
Approx. Oil Capacity	○	Weight	
<input type="text"/>		<input type="text"/>	



SAFETY ALERT SYMBOL

This is the “Safety Alert Symbol” used by this industry. This symbol is used to warn of possible injury. Be sure to read all warnings carefully. They are included for your safety and for the safety of others working with you.

4 SERVICE & PREPARATION FOR USE

Your Digga Mini Auger Drive is a **user non serviceable part. Unauthorised disassembly will void warranty.** All service and warranty must be performed by an authorised DIGGA service agent. Contact your local Digga dealer for details.

To facilitate warranty or service, record the model and serial number of your unit in the space provided on this page. This information may be obtained from the identification plate located on the product.

MODEL _____

SERIAL NUMBER _____

DATE PURCHASED _____

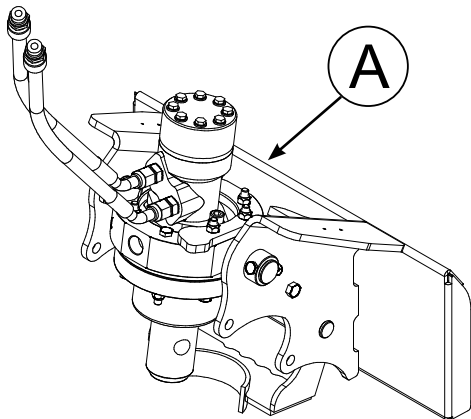
The parts department needs this information to ensure accurate parts can be sent to the authorised service agent.

MODELS COVERED IN THIS MANUAL

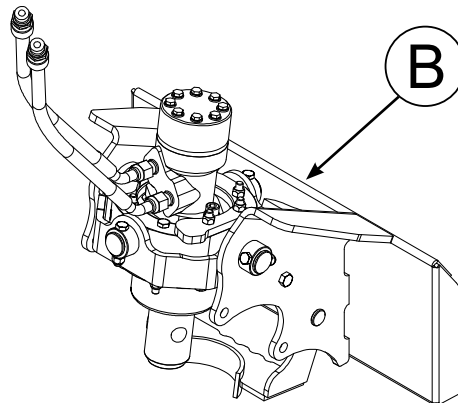
SINGLE AND DUAL SWING MINI AUGER DRIVES

ML-000173 - SINGLE AXIS SWING – MULTIFIT	ML-000324 - SINGLE AXIS SWING – VERMEER
ML-000178 2 - AXIS SWING – MULTIFIT	ML-000339 - SINGLE AXIS SWING – KANGA
ML-000220 - SINGLE AXIS SWING – KANGA	ML-000359 - 2 AXIS SWING - NEW HOLLAND
ML-000277 SINGLE - AXIS SWING ASSEMBLY - VERMEER(INT)	ML-000361 - 2 AXIS SWING – AVANT 200
ML-000278 - SINGLE AXIS SWING – MULTIFIT	ML-000392 - SINGLE AXIS SWING MULTIFIT 35GF
ML-000288 - 2 AXIS SWING – TORO	ML-000421 - 2 AXIS SWING – KANGA
ML-000290 - 2 AXIS SWING – VERMEER	ML-000453 - 2 AXIS SWING – MULTIFIT

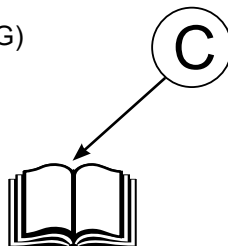
To avoid any inconvenience before operation, please check that you have received the following items which you have ordered. Items may differ depending on type of machine the Drive units are to be fitted to.



2-WAY SWING
(SINGLE AXIS SWING)



4-WAY SWING
(DUAL AXIS SWING)



REF	DESCRIPTION
A	MINI AUGER DRIVE (2-WAY SWING)
B	MINI AUGER DRIVE (4-WAY SWING)
C	OPERATORS MANUAL

TAKE NOTE! THIS SAFETY ALERT SYMBOL FOUND THROUGHOUT THIS MANUAL IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY OR OTHERS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH.

THIS SYMBOL MEANS:



**ATTENTION!
BECOME ALERT!
YOUR SAFETY IS INVOLVED!**


SIGNAL WORDS: Note the use of signal words DANGER, WARNING, and CAUTION with the safety messages. The appropriate signal word for each has been selected using the following guidelines:

DANGER: Indicates an imminently hazardous situation, which if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations, typically for machine components which, for functional purposes, cannot be guarded.

WARNING: Indicates a potentially hazardous situation, which if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices and indicate potential failure or damage to equipment.

CAUTION: Indicates a potentially hazardous situation, which if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

This section is composed of various warnings and safety tips. **Read and learn all the information in this section before you attempt to use your attachment.** Also read your machine's owner's manual before using your equipment. This knowledge will help you operate your unit safely. **Do not take this information lightly, it is presented for your benefit and for the benefit of others working around you.**

The "Safety Alert Symbol"  will be used throughout this manual. It will appear with the word **DANGER, WARNING, or CAUTION**, and a safety message pertaining to the specific topic being covered. Take the time to read these messages as you come across them.

WARNING



KNOW WHERE UTILITIES ARE

Observe overhead electrical and other utility lines. Be sure equipment will clear them. When digging, call DIAL BEFORE YOU DIG ON 1100 (in Australia), or your local UTILITIES location service provider for location of buried utility lines, gas, water, and sewer, as well as any other hazard you may encounter.

WARNING



EXPOSURE TO RESPIRABLE 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 high levels of dust.

WARNING



REMOVE PAINT BEFORE WELDING OR HEATING

Hazardous fumes/dust can be generated when paint is heated by welding, soldering or using a torch. Do all work outside or in a well ventilated area and dispose of paint and solvent properly. Remove paint before welding or heating. When sanding or grinding paint, avoid breathing the dust. Wear an approved respirator. If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.

WARNING



END OF LIFE DISPOSAL

At the completion of the useful life of the unit, drain all fluids and dismantle by separating the different materials (rubber, steel, plastic, etc.). Follow all federal, state and local regulations for recycling and disposal of the fluid and components.

5 SAFETY PRECAUTIONS - GENERAL INFORMATION

WARNING OPERATING THE MINI AUGER DRIVE



- 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.
- All bystanders should be kept a minimum of 6 meters (20 feet) away from the working area of the drive.
- Do not allow Site workers to climb or ride on a Mini Auger Drive and/or Frame, Auger or Auger Extension at any time, including while stationary, in operation or being moved or rotated.
- Operate only from the operator's station.
- Avoid steep hillside operation which could cause the machine to overturn. Consult your machines operator's and safety manuals for maximum incline allowable.

WARNING



- Reduce speed when driving over rough terrain, on a slope, or turning, to avoid overturning the vehicle.
- Travel only with the planetary drive in a safe transport position to prevent uncontrolled movement. Drive slowly over rough ground and on slopes.
- Tether any auger, anchor or extensions connected to the drive with a chain if necessary, to prevent uncontrolled swinging of the attachments when moving from position to position.
- Do not drive close to ditches, excavations, etc., cave in could result.
- Before exiting the machine, lower the attachment to the ground, apply the parking brakes, turn off the prime mover's engine, and remove the key.
- Flow and pressure gauges, fittings, and hoses must have a continuous operating pressure rating of at least 25% higher than highest pressures of the system.
- Do not smoke when refueling the prime mover. Allow room in the fuel tank for expansion. Wipe up any spilled fuel. Secure cap tightly when done.

WARNING



- Remove the auger drive from the prime mover before transporting to and from the job site.
- Planetary Drives shall be used only for their designed intent and shall not be loaded beyond their rated capacity. Overloading or exceeding the manufacturers specifications will void all warranty.

WARNING



OPERATING THE MINI AUGER DRIVE CONT....

- Drill stem rotation must be stopped before adding or removing sections, or making adjustments to the drill stem or sampling equipment.
- Augers shall be cleaned only when the rotating mechanism is in neutral and the auger stopped; long-handled shovels shall be used to move cuttings from the auger. Materials heavier than 10kgs must be moved mechanically or by using at least two people.
- Drilling operations must be stopped in the event of local thunderstorm, or lightning activity. During operation, weather conditions shall be monitored: operations shall cease during electrical storms or when electrical storms are imminent.
- Open bore holes must be capped and flagged.

WARNING



STORAGE OF THE PLANETARY DRIVE

- Seal hydraulic couplers from contaminants and secure all hydraulic hoses off the ground to help prevent damage.
- Clean the unit thoroughly, removing all mud, dirt, and grease.
- Inspect for visible signs of wear, breakage, or damage. Order any parts required and make the necessary repairs to avoid delays upon removal from storage.
- Check that drive unit motor and hoses are full of clean oil and planetary is full.
- Coat liberally with grease the output shaft and collar, extension shaft and collar, and all connecting pins to prevent rust and reduce wear.
- Tighten loose nuts, capscrews and hydraulic connections.
- Replace decals that are damaged or in unreadable condition.
- Store unit in a dry and protected place. Leaving the unit outside will materially shorten its life.

5 SAFETY PRECAUTIONS - GENERAL INFORMATION

WARNING GROUND PERSONNEL AND BYSTANDERS



- Be alert to others in the work area. Be sure others know when and where you will be working. Make sure no one is behind equipment or within 6 metres (20 Feet) of it operating.
- Loose fitting clothing, long hair, jewellery and equipment which might become entangled in moving equipment are prohibited while working near Auger Drills or Anchoring equipment.
- Operators, helpers, and other personnel working near Auger Drills or Anchoring equipment must wear steel-toe safety shoes, safety glasses, and hard hats as a minimum. Hearing protection, respirators, and personnel protective clothing will be specified in the site-specific Health and Safety Plan.

WARNING MAINTAINING THE PLANETARY DRIVE



- Before performing maintenance, lower the attachment to the ground, apply the parking brakes, turn off the engine, and remove the key.
- Drill rigs must be shut down and properly locked-out and tagged before repairs or maintenance is performed. Only properly trained and qualified individuals are permitted to perform repairs and maintenance.
- Never adjust a relief valve for pressure higher than recommended by the machine's manufacturer.

WARNING TRANSPORTING



Follow all local government regulations that may apply along with recommended tie down points and any equipment safety precautions at the front of this handbook when transporting your attachment.

WARNING TIE DOWN POINTS



- Tie down points are identified by tie down decals where required. Securing to trailer at other points is unsafe and can damage attachment.
- Do not attach tie down accessories around cylinders or in any way that may damage hoses or hydraulic components.
- Attach tie down accessories to unit as recommended.
- Check unit stability before transporting.

Verify that all tie down accessories (chains, slings, ropes, shackles and etc.) are capable of maintaining attachment stability during transporting and are attached in such a way to prevent unintended disengagement or shifting of the unit. Failure to do so could result in serious personal injury or death.

TO THE OPERATOR

The primary responsibility for safety with this equipment falls to the operator. Make sure that the equipment is operated only by trained individuals that have read and understand this manual. Don't hurry the learning process or take the unit for granted.

It is the skill, care, common sense, and good judgement of the operator that will determine how efficiently and safely the job is performed. Know your equipment before you start. Know its capabilities and how to operate all the controls.

Visually inspect your equipment before you start, ensure correct assembly and installation of the attachment and never operate equipment that is not in proper working order.

Practice the operation of your new attachment and become familiar with the controls and the way it handles on your machine. If there is any portion of this manual or function you do not understand, contact your local authorized dealer or the manufacturer.

1. Never operate the Attachment without first reading and understanding the entire operator's manual.
2. Do not paint over, remove or deface any safety signs or warning decals on your equipment.
3. Follow all safety decals. Keep them clean and replace them if they become worn, damaged or illegible.
4. Know your equipment inside and out. Know how to operate all controls and know emergency shut down procedures.
5. Keep all stepping surfaces, pedals, and controls free from dirt, grease and oil. Keep equipment clean to help avoid injury from slipping or a fall when getting on or off equipment.
6. Operate the attachment only in daylight or with sufficient artificial light.
7. Always carry loads close to the ground. Do not step off machine platform with load raised.
8. Turn off engine before performing maintenance. All maintenance can be performed with the machine arms lowered. If lift arms must be left raised for any reason, use a positive lift arm lock to secure the arms in place. Serious damage or personal injury could result from lift arms accidentally lowering.
9. Do not exceed rated operating capacity of the host machine, as machine may become unstable resulting in loss of control.
10. Always lower the loader arms or machine boom to the ground, shut off the engine and remove the key before getting off the unit.
11. Never use the drive unit on a seated skid steer loader that is not equipped with a cab or ROPS/FOPS, and operator restraints (seat belts or equivalent devices). This point does not apply to stand-on/walk-behind mini loaders.

WHEN DEALING WITH HYDRAULICS DURING ANY TYPE OF ASSEMBLY, OPERATION, MAINTENANCE, OR OTHER WORK ON OR NEAR THIS PRODUCT

- Hydraulic fluid under pressure can penetrate the skin and cause serious injury or death. Hydraulic leaks under pressure may not be visible!
- If any fluid penetrates the skin, GET IMMEDIATE MEDICAL ATTENTION!!
- Wear safety glasses, protective clothing, and use a sound piece of cardboard or wood when searching for hydraulic leaks. DO NOT USE YOUR HANDS!
- Before connecting or disconnecting hydraulic hoses, read your machine or power unit's operator's manual for detailed instructions on connecting and disconnecting hydraulic attachments.
- Make certain that all parts meet the specifications for this product when installing or replacing hydraulic hoses or fittings.
- After connecting hydraulic lines:
 - Slowly and carefully raise the loader's arm/s and cycle the rollback / dump cylinders to check hose clearances and to check for any interference.
 - Operate the hydraulics on this product to ascertain forward and reverse.
 - Make certain that the hoses cannot interfere with or actuate the quick-attach mechanism.
 - Make certain that hoses will not be pinched, or get tangled, in any equipment.
- Do not lock the auxiliary hydraulics of your power unit in the "ON" position.
- Refer to your power unit's operator's manual and this manual for procedures and intervals, then inspect and maintain the entire hydraulic system to insure that the fluid remains clean, that all devices function properly, and that there are no fluid leaks.

WHEN MOUNTING THIS PRODUCT TO YOUR MACHINE

- Refer to the operator's manuals of your machine, and your quick-attach for special or detailed mounting instructions.
- This product should fit onto the quick-attach Frame or Hitch (Machine Mount).
- If this product does not fit properly, contact your Digga Dealer before operating.
- Never place any part of your body into the mounting plate, frame, hitch or loader holes. A slight movement of the power unit and this product could cause serious injury.
- Where 'Dead Man' connections are connected or installed it is illegal to disengage, tamper with or remove them.

WHEN ADJUSTING, SERVICING OR REPAIRING THIS PRODUCT

- Make no modifications to your Mini Drive Unit.
- When making repairs use only authorised Digga service agents, use only genuine Digga parts for the gearbox. For fasteners hydraulic hoses, or hydraulic fittings, use only properly rated parts.
- Replacement parts must also have safety signs attached.

For additional safety information please see Risk Management booklet. To obtain a copy contact Digga Head Office on +61 7 3807 3330

7 SAFETY - DECAL LOCATION

GENERAL INFORMATION

The following decals are reductions of the actual decals used on auger drives. Use this information to order replacements for lost or damaged decals. Be sure you understand all decals before operating the attachment. They contain information you need to know for attachment safety.

IMPORTANT

Keep all safety decals clean and legible. Replace all missing, or damaged safety decals. When replacing parts with safety decals attached, the safety decals must also be replaced.

REPLACING SAFETY DECALS

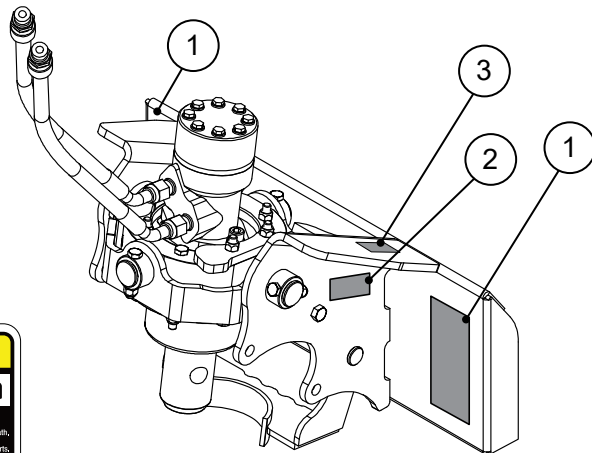
Clean the area of application with a nonflammable solvent, then wash the same area with soap and water. Allow the surface to dry. Remove the backing from the safety decal, exposing the adhesive surface. Apply the safety decal to the position shown in the diagram, and smooth out any bubbles.

DECAL LOCATION

Safety / Warning decals should be placed on each side of the drive unit facing any bystanders. Dial Before you Dig and operator warning decals should be placed to face the operator when sitting in the cab.

ORDERING NEW DECALS

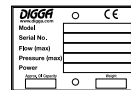
Contact your local Digga dealer to obtain new safety decals as well as logo and model decals.



DE-000426



DE-000046



DE-000063

ITEM NO	ORDER CODE	DESCRIPTION	QTY
1	DE-000426	DECAL SAFETY CAUTION	2
2	DE-000046	DIAL 1100 SMALL 90 X 35MM	2
3	DE-000063	SERIAL TAG	1

The key feature of your Digga Mini Auger Drive is low maintenance, regular oil changes only are required. It contains no user serviceable parts, unauthorised disassembly will void warranty. WRITTEN PERMISSION FROM DIGGA MUST BE OBTAINED before performing any disassembly.



SAFETY FIRST!! READ AND UNDERSTAND THE SAFETY INSTRUCTIONS BEFORE BEGINNING ANY DRIVE UNIT MAINTENANCE.

BEFORE FIRST USE

- Inspect the attachment for shipping damage. If damage does exist, do not operate until the damaged parts have been replaced or repaired.

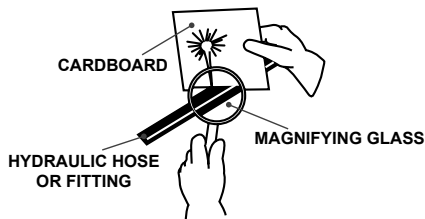
BEFORE EACH USE

- Make sure that all nuts and bolts are in place and properly tightened.
- Make sure that all other fasteners are in place and are performing their specified function.
- Make sure that all hydraulic fittings are tightened and that there are no leaks in any fittings or hoses.
- Make sure that all safety signs are in place, are clean, and are legible. (SEE THE SAFETY SIGN SECTION)
- Check for any oil leaks.
- Wear and tear on pins, linkages, clips, bushes and hood.
- Ensure any damage or excessively worn parts are replaced.
- Always wear safety goggles or glasses when inspecting equipment.

WARNING!



If injured by injected fluid, see a doctor at once. If your doctor is not familiar with this type of injury, ask him to research it immediately to determine proper treatment.



Escaping fluid under pressure can have sufficient force to penetrate the skin causing serious personal injury. Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than hands to search for suspected leaks. Keep unprotected body parts, such as face, eyes, and arms as far away as possible from a suspected leak. Flesh injected with hydraulic fluid may develop gangrene or other permanent disabilities.

OPERATING PARAMETERS - HP (KW) POWER RATINGS

The hydraulic motor of your auger drive unit has a maximum power rating. Maximum Pressure & Max Flow cannot be achieved at the same time. Ensure you know and understand the maximum flow, pressure and power ratings of your auger drive and machine and never exceed the maximum ratings listed below. The following charts indicate the maximum capacities of the drive unit.

					MAX POWER		MAXIMUM FLOW		MAXIMUM PRESSURE	
MODEL	PRV	ECV	Case Drain	RECOMMENDED FLOW	HP	Kw	LPM @ BAR		BAR @ LPM	
ML-000173	N/A	N/A	N/A	20-60	34	25	60	160	205	40
ML-000178	N/A	N/A	N/A	20-60	34	25	60	160	205	40
ML-000220	N/A	N/A	N/A	20-60	34	25	60	160	205	40
ML-000277	N/A	N/A	N/A	20-60	34	25	60	160	205	40
ML-000278	N/A	N/A	N/A	20-60	34	25	60	160	205	40
ML-000288	N/A	N/A	N/A	20-60	34	25	60	160	205	40
ML-000290	N/A	N/A	N/A	20-60	34	25	60	160	205	40
ML-000324	N/A	N/A	N/A	20-60	34	25	60	160	205	40
ML-000339	N/A	N/A	N/A	20-60	34	25	60	160	205	40
ML-000359	N/A	N/A	N/A	20-60	34	25	60	160	205	40
ML-000361	N/A	N/A	N/A	20-60	34	25	60	160	205	40
ML-000392	N/A	N/A	N/A	20-60	34	25	60	160	205	40
ML-000421	N/A	N/A	N/A	20-60	67	50	60	160	205	40
ML-000453	N/A	N/A	N/A	20-60	67	50	60	160	205	40



NOTE: BEFORE THE DRIVE UNIT IS EVEN CONNECTED TO THE MACHINE ENSURE THAT THE DRIVE IS FULL OF HYDRAULIC OIL AND THE GEARBOX IS FULL OF GEAR OIL.

All Digga planetary drive units are despatched from the factory full of fluids (hydraulic and gearbox oil) unless this warning decal is attached.

The decal is only applied in special circumstances, for example if a drive unit needs to be air-freighted to the customer. Air transportation regulation prohibits certain fluids from being air-freighted.

If there are no fluids in the drive unit at the time of despatching, then the decal DE-000127 will be applied to the drive unit.



DE-0000127

1. Once you have determined if the drive unit has gearbox oil in or requires oil, ensure that the correct grade and quantity of oil is used. **DO NOT RUN THE DRIVE UNIT WITHOUT OIL.**



NOTE: TO ENSURE BEST MOTOR LIFE, RUN MOTOR FOR APPROXIMATE ONE HOUR AT 30% OF RATED PRESSURE BEFORE APPLICATION TO FULL LOAD. BE SURE THAT MOTOR AND GEARBOX ARE FULL OF FLUIDS PRIOR TO ANY LOAD APPLICATION.

All Mini auger drive unit use EPG ISO 320 (mineral oil) gearbox oil for operating in tropical ambient temperatures. See maintenance section in the operators manual on gearbox oil level checking as well as the gearbox oils recommended for cold climate conditions. Digga produce many drive units with many different gear set ratios and as a result don't list every possible gearbox option and gearbox oil quantity required. See the maintenance section for gearbox volume and checking/topping up the gearbox oil.



NOTE: WHEN PROCURING ANY HOSE ASSEMBLIES FOR USE ON YOUR DIGGA PLANETARY DRIVE UNIT ENSURE THAT THE MAX OPERATING PRESSURE OF THE HOSES IS ALWAYS HIGHER THAN WHAT THE MACHINE (WHICH THE PLANETARY DRIVE UNIT WILL BE USED ON) CAN PRODUCE.

10 INSTALLATION AND OPERATING INSTRUCTION

The DIGGA Mini Auger Drive attaches to the tool bar/quick-attach mechanism of your Machine. Due to this arrangement, thorough knowledge of the machinery controls is necessary for machine operation. Read and understand your machine operator's manual for information regarding machine operation before attempting to use the Mini Auger Drive. When a Mini Auger Drive is purchased from Digga or a DIGGA Dealer/Distributor the gearbox and motor configuration is matched for suitability and compatibility to the flows and pressure of the original machine it was purchased for. For Fitment of the Mini Auger Drive to other machines you must first contact your DIGGA dealer and receive written confirmation to ensure you do not incorrectly fit the Mini Auger Drive to a machine with higher flows or pressure than what the Mini Auger Drive was designed for. Warranty will be void if the Mini Auger Drive is fitted to an alternative machine without first receiving written confirmation from your DIGGA dealer. Exceeding the recommended max flow and pressure of the Mini Auger drive as stated on the serial tag will void all warranty. Check the work site and identify the extent of the work to be carried out and note any possible hazards or constraints.

Underground cables, services etc. Check with relevant government departments on the location of these before commencement of any work. DIAL BEFORE YOU DIG 1100. Review the job at hand and determine the auger is appropriate for the intended digging conditions. *For example:* Do not use earth teeth in medium to hard conditions.

INSTALLATION INSTRUCTIONS

1. Remove the shipping banding from around the Mini Auger Drive and Frame/Hitch.
2. Remove any attachments from the front of the Machine.
3. Ensure you have read the serial tag on the Mini Auger Drive unit to obtain the max flow and pressure ratings. Ensure you machine flow and pressure settings are aligned with the requirements of the Mini Auger drive unit.

NEVER EXCEED THE MAX FLOW AND PRESSURE RATINGS AS WARRANTY WILL BE VOID.

4. Following all standard safety practices and the instructions for installing an attachment in your machine operator's manual, install the Mini Auger Drive onto your Machine.



NOTE: IT IS IMPORTANT TO MAKE SURE THE LOCKING MECHANISM ON YOUR QUICK ATTACH IS ENGAGED, THEREFORE LOCKING THE ATTACHMENT ONTO THE MACHINE.

5. Lower the unit to the ground and remove the key from the parent machine.
6. Relieve any pressure from the auxiliary hydraulic system and after making sure that there is not any foreign matter on the hydraulic couplers, connect the power and return couplers to the auxiliary hydraulic system of your machine.
7. If applicable connect the case drain coupler to the case drain on your machine. Failure to connect the case drain will severely damage the motor and void all warranty.
8. Route the hoses in such a fashion as to avoid pinching or chafing.
9. With the unit lying horizontally on the ground connect the auger or extension. **ENSURE THE AUGER PIN AND SAFETY CLIP IS INSTALLED CORRECTLY.** The machine is now ready for use.
10. Check the auger teeth and pilots are not worn. Ensure all worn parts are replaced. Worn parts will be ineffective and severely diminish the overall performance of the Mini Auger Drive and Auger.

COLD WEATHER STARTUP INFORMATION

The information that is contained on this page is an aid to the operation and maintenance of your Mini Auger Drive Unit in cold weather. When you operate the host machine in temperatures from 9 °C (48 °F) to -40 °C (-40 °F) refer to the Operation and Maintenance Manual of your machine. It is difficult to outline the operation and maintenance of a machine that is used in freezing temperatures for a general publication. The difficulty in outlining the requirements is caused by the following conditions:

- The unlimited differences in weather conditions
- Applications and ground conditions
- And the supplies that are available in your area

In order to provide the best possible guidelines, use the information in this document and the following criteria: varying factors, recommendations from your Machinery dealer, and past proven practices.

HINTS FOR COLD WEATHER

Make sure that you read the information for selecting the correct oils for use in cold weather. Refer to page 31 for detail. Prepare the machine for the weather conditions as instructed in your machines operator manuals.

PROCEDURE FOR STARTUP IN COLD WEATHER

- Your Mini Auger Drive Unit is designed to operate within ambient temperatures of 5°C (41°F) and 30°C (86°F).
- For temperatures below 5°C (48°F) it is recommended to slowly start the drive under no load, at minimum speed. This will allow warm hydraulic oil from your host machine to circulate through the hydraulic motor of your drive and slowly bring it to the minimum recommended operating temperature of 5°C (48°F).
- Once the minimum temperature has been achieved it is recommended to slowly introduce load to the output of the drive unit, which in turn will increase the internal gear oil temperature.

N.B. The host machines cooling system and the lubrication system for the engine do not lose heat immediately upon shutdown. The transmission and the hydraulic system lose heat more rapidly because of more exposed areas. The Planetary Gearbox & Motor cases cool rapidly, since the cases do not operate as warm as other compartments. Therefore, after any period of down time on the machine, ensure you achieve full operating temperatures through following start up instructions. Thick oil can also cause high case pressures which in turn cause shaft seal problems

OPERATING PROCEDURES - AUGERING



YOUR DIGGA MINI DRIVE UNIT IS SPECIFICALLY DESIGNED FOR DRILLING AND ROTATIONAL OPERATION ONLY, IT IS NOT A LIFTING DEVICE !

INTENDED USE

This unit is designed for drilling vertical or horizontal holes or rotating mini piers into the ground. Use in any other way is considered contrary to the intended use.

After all installation instructions have been completed, safety information read and understood, and the rest of this operator's manual has been reviewed, your DIGGA Auger Drive is now ready for use.

1. With the auger raised off the ground and the loader engine set at a low RPM, activate the host machines drive control valve to determine which position the control valve lever must be in to turn auger in a forward (clockwise) rotation. This is the "digging" position.
2. Before beginning to dig, experiment with auger speed to determine a suitable auger RPM. Generally in light and sandy soil a high RPM is desirable. In hard, rocky, or frozen soils a slower RPM is desirable. To increase auger RPM, increase loader engine RPM. To decrease auger RPM, decrease vehicle engine RPM.
3. Raise the Auger Drive so the auger hangs vertical and the drive is clear of the cradle, then lower the auger into the starting position.
4. Ensure the crowd on your machine is forward and not back. This will keep the Drive clear of the cradle and allow the auger to move freely from side to side and forward and back. The pendulum action must not be hindered otherwise damage / bending of the shaft or auger may occur. Lower the auger into the ground ensuring the auger drive does not stall and remains in a vertical position, start rotation of the auger.
5. As the auger starts to load up with spoil, stop the rotation whilst still in the hole and raise the auger vertically. Move away from the hole, rotate the auger & stop, rotate the auger & stop in the forward direction to remove the spoil. **DO NOT** rapidly engage forward/reverse action to remove spoil.

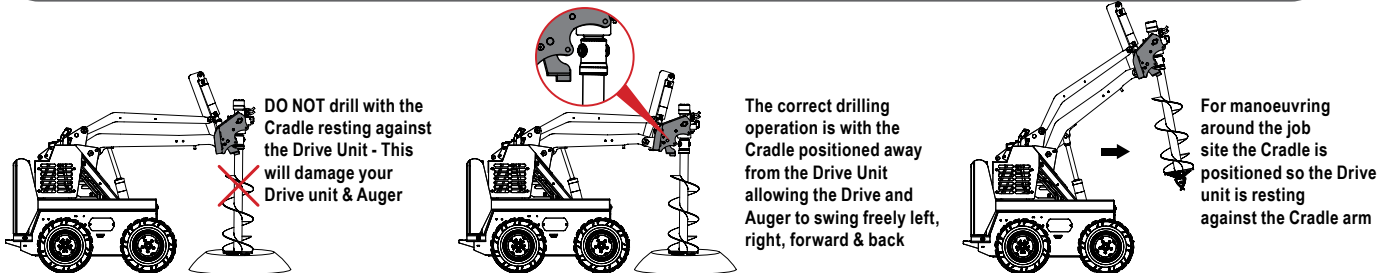


DO NOT RAPIDLY ENGAGE FORWARD REVERSE OPERATION TO REMOVE SOIL FROM THE AUGER, THIS CREATES EXCESSIVE PRESSURE SPIKES WHICH WILL ADVERSELY EFFECT PERFORMANCE AND LONGEVITY OF THE MOTOR

6. Do not remove the auger on an angle out of the hole, as you will run the increased risk of bending the auger or shaft.
7. If trying to remove the auger full of material and you experience strong resistance, reverse the auger slowly whilst raising the auger vertically to assist with removal. Do not pull with the machine as you may run the risk of shaft damage to the drive.
8. Do not flick the dirt (especially mud or clay) from the auger, as you may run the increased risk of bending the auger shaft.
9. Keep clearing the auger hole regularly as you drill deeper. This will help prolong the life of the auger and the wear parts.
*Note In rock it is recommended to add a slow stream of water to help the performance and life of the rock teeth.

All Mini Tracked/Wheeled Loaders. Be aware that the boom moves in an arc and to maintain a plumb drilling position, you will need to compensate for this movement by adjusting the dipper arm or moving your machine backwards or forwards to ensure you are drilling straight. You must take extreme care when doing this to prevent the auger or screw pile from bending or pulling flights against the inside of the hole.

All other machines – Ensure the vertical position is maintained when drilling.



EXTENSIONS & TELESCOPIC AUGER EXTENSIONS - OPERATING PROCEDURE

1. Once you have obtained the maximum depth with the extension & auger you have, raise the auger out of the hole & clear the spoil from the auger. Place the auger back into the hole ensuring the auger is bottomed out in the hole & the hub of the extension is clear & easily accessible, remove the auger pin to disengage the auger drive from the auger.
N.B. Ensure personal safety at all times, determine if access to the auger hub, once the auger is in the hole, is safe, if not safe for persons assisting, place boards or covers across the hole before attempting to reach across to the hub.
Install the additional extension onto the auger drive with pin & safety clip, lower the extension & attach to the auger with second pin & safety clip. Always ensure persons assisting are clear & visible to the operator at all times.
2. Recommence drilling, Once you have reached the maximum depth, raise the auger and extension out of the hole until the eyelets of the extension are visible & just above the hole. Slide the two support bars through the two heavy duty eyelets or U brackets welded to the outer extension. Either then remove the pin & section of extension and place away from the hole. Then re-pin back to the bottom section, take the weight of the rest of the extension & auger on the machine & remove the support bars. Clear the auger & then keep repeating these steps.
3. For telescopic extensions, use the same method as above, but slide the inner extension back into the auger & pin.

DIGGA DOES NOT ACCEPT ANY LIABILITY FOR INJURY OR DAMAGE RESULTING FROM THE OPERATOR USING THE EXTENSION(S) OUTSIDE THE DESIGNED OPERATING PROCEDURE

OPERATING PROCEDURES - SCREW ANCHORING (PILE/PIER)

1. Installation is to be performed by a trained and/or certified installer.
2. Connect the manufacturer's approved adapters to the Planetary Drive head. As a single speed drive, install the pile in one continuous motion until the desired depth and torque is achieved.
3. Install pile/pier with a continuous motion. The rate should match the pitch on the pile. Make sure to apply just enough downward pressure to help the advancement of the pile into the ground, but not too much that you are driving or drilling the pile into the ground. Always maintain a plumb line so that you do not bend the pile.

N.B Inefficiencies occur with machinery that can reduce the torque output, such as heat, cold, age of machine etc... It is therefore highly recommended that Torque monitoring equipment to keep record of the torque and pressure is installed. Contact Digga or your local Digga Dealer for further information regarding torque monitoring options.

IT IS THE RESPONSIBILITY OF THE INSTALLER TO CORRECTLY CALCULATE, PLAN AND EXECUTE THE INSTALLATION OF THE PIERS TO THE NOMINATED TORQUES REQUIRED. DIGGA DOES NOT ACCEPT ANY LIABILITY OR CONSEQUENTIAL LOSS THAT IS INCURRED FROM INCORRECT INSTALLATION, OVER TORQUING OR UNDER TORQUING OF PILES



IMPORTANT: OIL CHANGE SCHEDULE

THE GEARBOX OIL CAPACITY IS ENGRAVED ONTO THE SERIAL TAG LOCATED ON THE TOP OF THE HOOD.

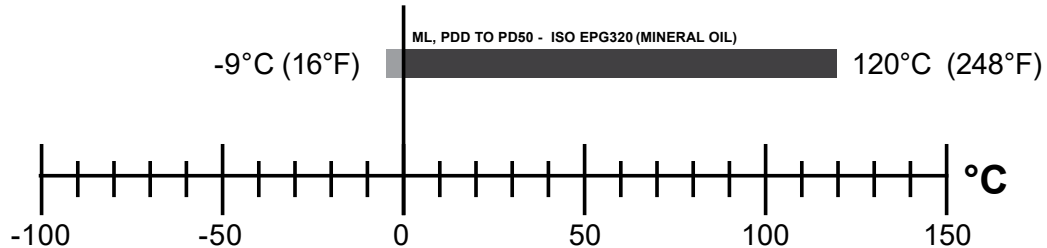
Initial (Bed-in) oil change:

- The first oil change must be carried out within the first 50 hours of use under MODERATE OPERATING CONDITIONS. Thereafter, every 500 hours.
- Change the gear oil after the first 30 hours of SEVERE OPERATING CONDITIONS*. (i.e. severe ambient temperature conditions of +40°C or below 0°C, when augering, screw piling or core barrelling in hard ground.) Thereafter, every 300 hours.

	MODERATE OPERATING CONDITIONS	SEVERE OPERATING CONDITIONS*
FIRST OIL CHANGE	Within 3 months <u>OR</u> initial 50 hours of use	Within the first 30 hours of use
2ND OIL CHANGE PLUS SUBSEQUENT OIL CHANGES	After 500 hours or 12 months of use	After 300 hours of use thereafter (Drive requires a major stripdown, inspection and rebuild)

GEARBOX OIL:- CASTROL EPG SP 320 (MINERAL OIL) AUST/UK (OR EQUIVALENT)

*** SEVERE OPERATING CONDITIONS:- AMBIENT TEMPERATURES BELOW 0° (32°F) & ABOVE 40°C (104°F). WORKING IN HARD GROUND. EXTENDED AND CONTINUOUS HOURS OF OPERATION.**

MINIMUM AND MAXIMUM GEAR OIL OPERATING TEMPERATURE FOR GEARBOXES

INSTRUCTIONS ON HOW TO WARM UP A DRIVE IF OPERATING BELOW 5° C CAN BE FOUND ON PAGE 21. PLEASE READ AND UNDERSTAND THESE INSTRUCTIONS.

PROCEDURE TO CHECK THE GEARBOX OIL LEVEL

Unfortunately, there is no provision to make a quick visual inspection of the gearbox oil level. The gearbox is filled to the correct level at the factory. Unless there are clear signs of gearbox oil leakage it should not require topping up between scheduled oil changes or services.

PROCEDURE TO DRAIN GEAR BOX OIL

The gearbox oil change interval should be carried out in accordance with the requirements set out in the table on page 26. It is advisable to replace the output shaft seal at the first oil change as this is the most important oil change to prolong the life of bearings and gears. The reasoning behind this is that whilst bedding in, gearboxes can generate fine metallic contamination. This will find its way to the lowest part of the gearbox and collect in the output seal thus allowing an abrasive paste to wear the output seal and the output shaft. It is advisable that oil changes are performed by a Digga Authorised Service Agent, however it is not always possible for many reasons to get this done by a Dealer however what is important is that the oil is changed at the required intervals.

Remember to consider the environment, state and federal laws relating to disposal of oil. Dumping and spillage of oil onto land, storm water outlets and waterways is illegal. Oil must be disposed of by professional waste disposal or recycle specialists.

1. Ensure that the gearbox is stable, secure and safe to work on and that there is an appropriate sized drip tray to catch the drained oil.
2. Before commencing to drain any oil, check the serial tag of the unit to determine the quantity of oil which the gearbox holds (see also page 26). This will indicate the quantity of oil which has to be replaced into the gearbox and size of bucket needed to contain the oil. Remove the drain plug from the output housing. This will allow the bulk of the gearbox oil to drain out. (this will not drain the gearbox entirely). The lower section of the output housing, below the plug will still contain some oil.

2 WAY SWING (SINGLE AXIS SWING)

1. The drive unit can either be left in the frame and the whole frame can be tilted or the drive unit can be removed from the frame in order to drain the gearbox oil.
2. To remove the drive unit from the frame, remove the 2 X M10 X 60mm long bolts and nyloc nuts (Fig 1. pg29)
3. Remove the ¼ inch BSP drain plug (Fig 2. pg29) using an allen key.
4. Tilt the drive to drain the gearbox oil.

4 WAY SWING (DUAL AXIS SWING)

1. Drive unit will have to be removed from the frame in order to gain access to remove the gearbox drain plug.
2. To remove the drive unit from the frame, remove the 2 X M10 X 60mm long bolt and nyloc nuts see (Fig 3. pg29)
3. Remove ¼ inch BSP drain plug using (Fig 2. pg29) an allen key.
4. Remove the drive unit from the frame to drain the gearbox oil.

M10 X 60MM LONG BOLTS
AND NYLOC NUTS (X2)

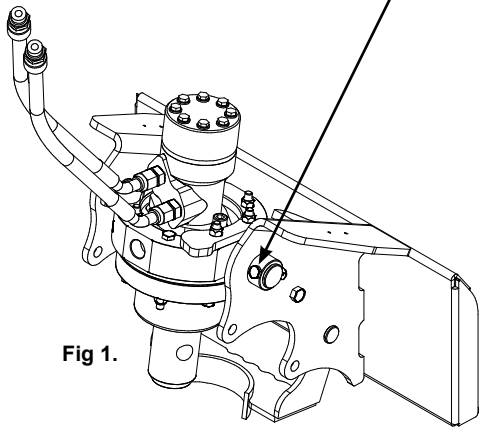


Fig 1.

¼ INCH BSP
DRAIN PLUG

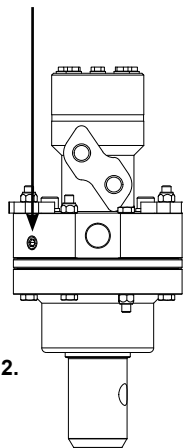


Fig 2.

M10 X 60MM LONG BOLTS
AND NYLOC NUTS (X2)

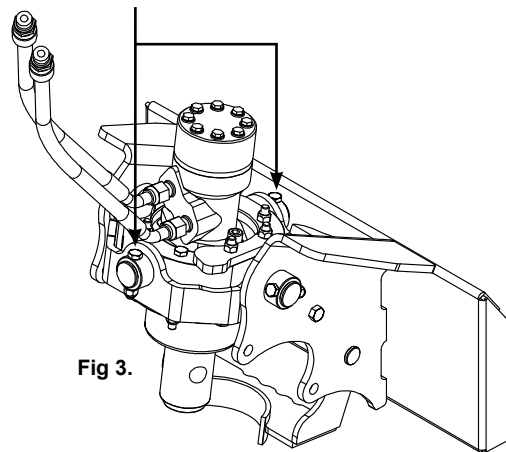
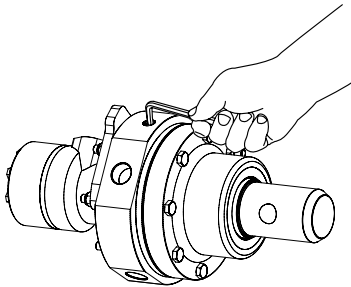


Fig 3.

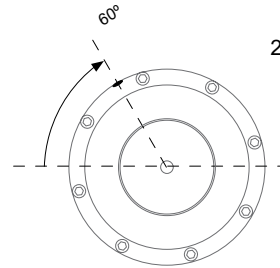
PROCEDURE FOR CHANGING OR RE-FILLING GEARBOX OIL LEVEL

- Use correct oil. See page 26.
- For oil quantity. See page 31.



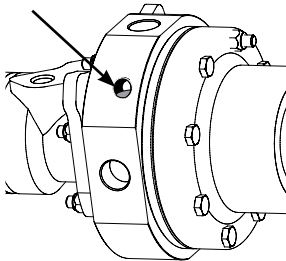
1. Lay the drive unit flat on the ground with the oil fill bung facing up. Using an 8mm Allen key remove the bung.

To drain oil, turn the drive until the hole is facing down. Allow to drain until all oil has been removed.



2. Rotate the unit until the oil fill hole is sitting between 60° - 70° from horizontal

OIL STARTING TO SEEP OUT OF HOLE



3. Once the filler hole is at approx 60° the oil should be sitting at the base of the filler hole thread

4. If the oil level is too low to reach the thread it should be topped up. Rotate the Unit so the filler hole is sitting at the top and add oil. Repeat steps 2 - 4 until you have achieved the correct level.

Note that the oil takes time to work it's way through the gearbox. Allow time for it to settle once it has reached the bung hole. Then check the level again until all seepage has occurred.



NOTE: IF YOUR UNIT IS LEAKING OIL AFTER YOU HAVE PERFORMED THE DAILY CHECKS CONSULT YOUR LOCAL AUTHORISED SERVICE AGENT.

GEARBOX OIL CAPACITY

DRIVE UNIT	OIL CAPACITY IN LITRES	RECOMMENDED OIL FOR GEARBOX
ML-000173	0.45	ISO EPG320 Mineral
ML-000324	0.45	ISO EPG320 Mineral
ML-000277	0.45	ISO EPG320 Mineral
ML-000392	0.45	ISO EPG320 Mineral
ML-000178	0.45	ISO EPG320 Mineral
ML-000288	0.45	ISO EPG320 Mineral
ML-000290	0.45	ISO EPG320 Mineral
ML-000278	0.45	ISO EPG320 Mineral
ML-000220	0.45	ISO EPG320 Mineral
ML-000339	0.45	ISO EPG320 Mineral
ML-000359	0.45	ISO EPG320 Mineral
ML-000361	0.45	ISO EPG320 Mineral
ML-000421	0.45	ISO EPG320 Mineral
ML-000453	0.45	ISO EPG320 Mineral

Please Note: Oil capacity charts are estimated for a gearbox being filled the first time. When changing the oil, not all oil will drain out, there will always be some residual oil left in the gearbox. Follow the procedure to fill the gearbox, using the oil capacity charts as a guide only.

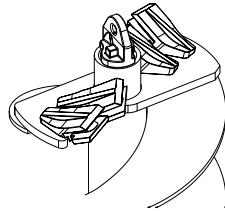
TO REPLACE TEETH ON AN AUGER



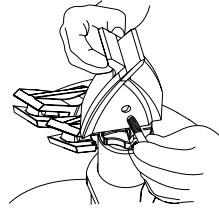
Safety glasses
must be worn



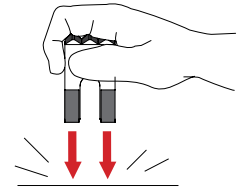
WARNING: ALWAYS WEAR SAFETY GLASSES WHEN REPLACING TEETH ON AUGERS. RISK OF EYE INJURY FROM FLYING OBJECTS



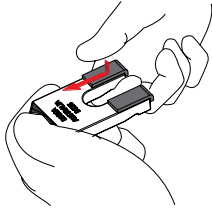
1. Position Auger so that it is easily accessible at the bottom



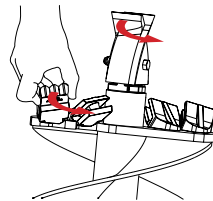
2. Place Pilot on bottom of Auger and secure with nut and bolt.



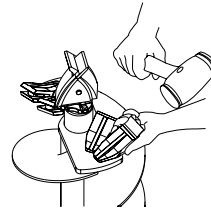
3. Tap Tooth (felt side down) to ensure felt is attached firmly.



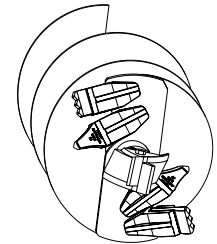
4. Press felt on the front of the Tooth to ensure felt is attached firmly.



5. Place tooth in the pocket ensuring the tooth cutting edge is facing the same direction as the pilot.



6. With the tooth placed in the pocket, knock the tooth in with a soft head (copper) mallet.



7. Continue until all teeth are replaced as necessary.

MAINTAIN YOUR AUGER BIT

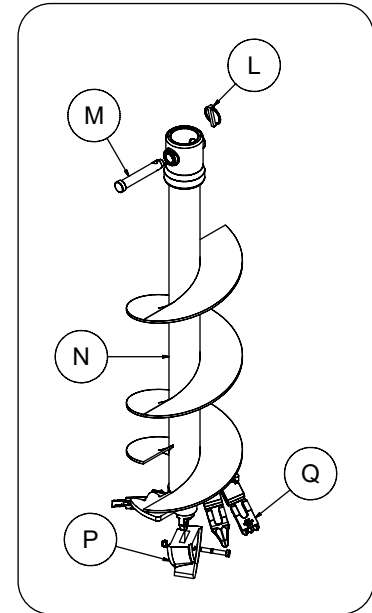
The Auger is a ground engaging tool fitted with wear parts to dig holes. Therefore, the Auger Teeth & Pilot must be checked regularly and replaced with new wear parts. Failure to do so will cause premature wear and damage to the Auger Pockets and Flighting, and substantially reduce the drilling performance of the auger bit.

AUGER	OAL	FLIGHT THICKNESS	STD SIZES AVAILABLE	TEETH	TO SUIT
A4	1200mm	6mm	100mm (4"), 900mm (36")	TS/PM	MLT-PD4
A5	1500mm	8mm	150mm (6"), 1000mm (40")	TS/PM-SQ	PD4-PD7
A6	1500mm	8mm	150mm (6"), 1500mm (60")	TM/PM-SQ	PD4-PD10
A7C	1500mm	8mm	150mm (6"), 1500mm (60")	TTC/PH3	PD5-PD10
A7D	1500mm	8mm	150mm (6"), 1500mm (60")	TTD/PH3	PD5-PD10
A8	1500mm	10mm	150mm (6"), 1500mm (60")	TM/PH-3	PD12-PD20
A9	1500mm	10mm	150mm (6"), 1500mm (60")	TTD/PH3	PD12-PD20
A10	1550mm	12/16mm	150mm (6"), 1500mm (60")	TTD/PH-3	PD25-PD50
A11	1550mm	12/16mm	150mm (6"), 1500mm (60")	TTL/PH-3	PD25-PD50

REF	DESCRIPTION	QTY
L	Clip	1
M	AUGER PIN	1
N	AUGER	1
P	WEAR PART - PILOT	1
Q	WEAR PART - PADLOC TEETH	*

IMPORTANT:

CHECK THE WEAR PARTS ON YOUR AUGER ON A REGULAR BASIS. ENSURE ALL REPLACEMENT PARTS ARE GENUINE DIGGA WEAR PARTS



For further information on spare parts please contact one of the Digga sales office below your closest authorised Digga Dealer.

DIGGA INTERNATIONAL SALES OFFICES

ASIA PACIFIC

DIGGA HEAD OFFICE - BRISBANE

4 Octal St, Yatala QLD 4207

PH: (07) 3807 3330

EMAIL: info@digga.com

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Dandenong, VIC 3175

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SINGLE AND DUAL AXIS SWING DRIVE UNIT

TROUBLE	POSSIBLE CAUSE	REMEDY
No Rotation	Quick release coupler(s) not engaged	Check quick release coupler(s)
	Quick release coupler(s) faulty	Replace faulty coupler(s)
	Auxiliary valve on machine faulty	Refer to machine manual
	Hydraulic oil tank low	Fill oil tank to maximum level
	Hydraulic motor failure	Contact your DIGGA Dealer*
	Output shaft bearing failure	Contact your DIGGA Dealer*
	Planetary gear failure	Contact your DIGGA Dealer*
	Machine oil pump faulty	Refer to machine manual
Slow Rotation	Low oil flow	Check machine specifications
	Drive unit too large for machine	Contact your DIGGA Dealer*
	Hydraulic system too hot	See hydraulic section
Hood Leaking Oil	Hose(s) or Fitting(s) Leaking	Tighten or replace
	Motor 'O' ring failure	Contact your DIGGA Dealer*
Output Shaft Leaking Oil	Oil seal failure	Contact your DIGGA Dealer*
	Hydraulic motor failure	Contact your DIGGA Dealer*
No Torque	Oil pressure too low	Check machines specifications
	Drive unit too small for machine	Contact your DIGGA Dealer*
	Hydraulic system too hot	See hydraulic section
Grinding or Loud Noise	Gearbox failure	Contact your DIGGA Dealer*

HYDRAULIC SYSTEM

TROUBLE	POSSIBLE CAUSE	REMEDY
Oil Over Heating	Oil Pressure too Low	Set Relief Valve to Machine Spec
	Restriction in Line	Inspect and Repair
	Auger Continually Stalling	Limit Down Pressure
	Drive Unit too Small	Contact your DIGGA Dealer
	Machine too Small	Fit Drive Unit to Larger Machine
	Hydraulic Oil Tank Low	Fill Oil Tank to Maximum Level
	Insufficient Oil Capacity	Fit Oil Cooler

AUGERS

TROUBLE	POSSIBLE CAUSE	REMEDY
Slow Digging Speed	Worn Teeth or Pilot	Replace (See Wear parts, inside back cover)
	Ground too Hard	Contact your DIGGA Dealer
	Low Oil Flow	Check Machine Specifications
No Torque	Auger too Large for Drive Unit	Fit Larger Drive Unit
	Machine too Small	Fit Drive Unit to Larger Machine

* DO NOT DISASSEMBLE DRIVE TO ASSESS FAULT, DISASSEMBLY WITHOUT WRITTEN PERMISSION AND INSTRUCTIONS FROM DIGGA WILL VOID ALL WARRANTY.

WARRANTY STATEMENT

PD & ML Drive Units - Used for Drilling Application

Motor - Warranty up to 3 years subject to manufacturers inspection

Gearbox - Warranty up to 5 years subject to manufacturers inspection

All new Digga products are warranted to be free from defects in materials or workmanship, for a period of twelve (12) months from date of original purchase, which may cause failure under normal usage and service when used for the purpose intended. In the event of failure (excluding cable, ground engaging parts such as sprockets, digging chain, bearings, teeth, tamping and demolition heads, blade cutting edges, pilot bits, auger teeth, auger heads), if after examination, Digga determines failure was due to defective material and/or workmanship, parts only will be repaired or replaced. Digga may request defective product or products be returned prepaid to them for inspection at their place of business or to a location specified by Digga. The warranty will be considered void if the product or any part of the product is modified or repaired in any way not expressly authorised by Digga, or if closed components are disassembled prior to return. Closed components include, but are not limited to: Gearboxes, Hydraulic pumps, Motors, Cylinders and Actuators. Any goods returned to Digga by the customer under warranty or repair must have all freight charges prepaid for on the customers account. Any claims under this warranty must be made within fifteen (15) days after the Buyer learns of the facts upon which such claim is based. All claims not made in writing and received by Digga outside the time period specified above shall be deemed waived.

DAMAGE OR FAILURE THROUGH OPERATOR ABUSE OR NEGLIGENCE VOIDS WARRANTY.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED AND THERE ARE NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL DIGGA BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGE. DIGGA'S LIABILITY FOR ANY AND ALL LOSSES AND DAMAGES TO BUYER, RESULTING FROM ANY CAUSE WHATSOEVER, INCLUDING DIGGA'S NEGLIGENCE, IRRESPECTIVE OF WHETHER SUCH DEFECTS ARE DISCOVERABLE OR LATENT, SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PARTICULAR PRODUCTS WITH RESPECT TO WHICH LOSSES OR DAMAGES ARE CLAIMED, OR, AT THE ELECTION OF DIGGA, THE REPAIR OR REPLACEMENT OF DEFECTIVE OR DAMAGED PRODUCTS.



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earthmovingwarehouse.com.au

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Boondall Brisbane 4034
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