DIGGA®

TRENCHERS

OPERATORS MANUAL

PM-000005-B

The following criteria would have been taken into account by Digga or your Digga dealer prior to supplying you with your trencher. Should you have purchased you trencher from someone other than Digga, be sure to check the following criteria to ensure efficient trenching. The parent machine needs to meet the requirements of the trencher in terms of mass, hydraulic flow and pressure.

Criteria	Effect
Flow	Flow to the trencher affects the speed of the chain. Excessive flow will damage the motor.
Pressure	Pressure to the trencher affects torque of the trencher. Excessive pressure will damage the motor.
Ground conditions	Ground conditions affects the speed and efficiency at which you can trench.
Chain type	There are different chains available for different soil conditions, having the incorrect chain type for the ground condition will affect the efficiency of the trencher operation and the wear life of the chain.
Parent Machine Weight	Parent Machine weight affects the stabilty of the trencher and machine as a unit which will inturn affect the efficiency of the trenching operation.

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

Your Digga Trencher is a high performance attachment, fitted with a Digga planetary gearbox, that is designed for trenching. To avoid premature wear and failure, and to fulfil your terms of warranty please read this statement.

Your Digga Trencher gearbox must have a first oil change within the **first 30 hours (extreme use)** or **50 hours (moderate use)** or **3 months (whichever comes first)** of use to ensure the bed in of the gearbox. For more detailed information please read page 29.

If the first oil change is not performed within this period, excessive wear within the gearbox can 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 TRENCHER** 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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Congratulations on the purchase of your new DIGGA product! This product was carefully designed and manufactured to give you many years of dependable service. Only minor maintenance is required to keep it in top working condition. Be sure to observe all maintenance procedures and safety precautions in this manual and on any safety decals located on the product and on any equipment on which the attachment is mounted.

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

Never let anyone operate this unit without reading the “Safety Precautions” and “Operating Instructions” sections of this manual. Always choose hard, level ground to park the vehicle on and set the brake so the unit cannot roll. Unless noted otherwise, right and left sides are determined from the operator’s control position when facing the attachment.

NOTE: The illustrations and data used in this manual were current (according to the information available to us) at the time of printing, however, we reserve the right to redesign and change the attachment as may be necessary without notification.

BEFORE OPERATION

The primary responsibility for safety with this equipment falls to the operator. Make sure the equipment is operated only by trained individuals that have read and understand this manual. If there is any portion of this manual or function you do not understand, contact your local authorized dealer or the manufacturer to obtain further assistance. Keep this manual available for reference.

Provide the manual to any new owners and/or operators.

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.

SERVICE

Use only manufacturer replacement parts. Substitute parts may not meet the required standards. Record the model and serial number of your unit on page 6. The parts department needs this information to insure that you receive the correct parts.

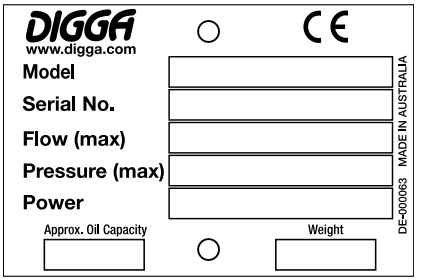
4 SERVICE & PREPARATION FOR USE

All DIGGA Trenchers are designed and manufactured to give dependable service. To keep it running efficiently read the instructions in this operator's manual. Each section is clearly identified so that you can easily find the information you need, whether it is related to operation, lubrication or maintenance.

Trencher equipment options are available to help you do a better job in special conditions. These are noted throughout this manual and can be purchased from your DIGGA dealer eg. Chains, wear parts, crumber bar, spare parts, different width chains.

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.

ALL SERVICE FOR WARRANTY MUST BE PERFORMED BY AN AUTHORISED DIGGA SERVICE AGENT. CONTACT YOUR LOCAL DIGGA DEALER FOR DETAILS.



MODEL _____

SERIAL NUMBER _____

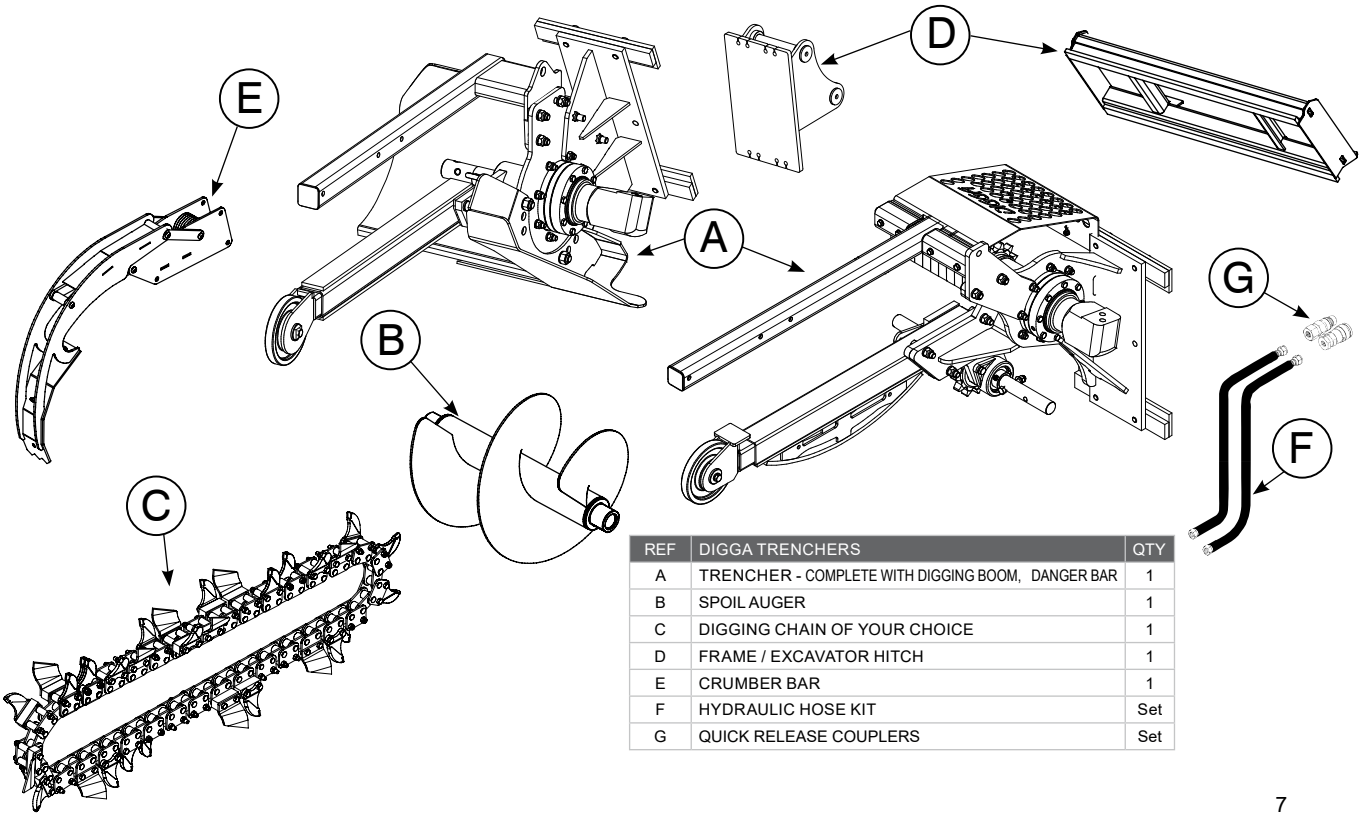
DATE PURCHASED _____

IMPORTANT: EXCEPT FOR OIL CHANGES, GENERAL MAINTENANCE OF CHAINS AND BEARINGS, ALL SERVICE AND REPAIR FOR WARRANTY AND ASSESSMENT FOR WARRANTY MUST BE PERFORMED BY AN AUTHORISED DIGGA SERVICE AGENT, ONLY GENUINE DIGGA REPLACEMENT PARTS CAN BE USED. SUBSTITUTE PARTS WILL NOT MEET THE STANDARDS REQUIRED FOR SAFE, DEPENDABLE OPERATION. USE OF NON GENUINE DIGGA PARTS WILL VOID WARRANTY AND DIGGA WILL ACCEPT NO LIABILITY WHAT SO EVER FOR CONSEQUENTIAL OR SPECIAL DAMAGES.

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

MODELS COVERED IN THIS MANUAL			
BIGFOOT	BIGFOOT XD	HYDRIVE	HYDRIVE XD

To avoid any inconvenience before operation, please check that you have received the following items which you may have ordered



REF	DIGGA TRENCHERS	QTY
A	TRENCHER - COMPLETE WITH DIGGING BOOM, DANGER BAR	1
B	SPOIL AUGER	1
C	DIGGING CHAIN OF YOUR CHOICE	1
D	FRAME / EXCAVATOR HITCH	1
E	CRUMBER BAR	1
F	HYDRAULIC HOSE KIT	Set
G	QUICK RELEASE COUPLERS	Set

5 SAFETY PRECAUTIONS - GENERAL INFORMATION

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 machines 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 TRENCHER**

- 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 20 feet (6 meters) away from the working area of the drive.
- Do not allow Site workers to climb or ride on Trencher at any time, including while stationary, in operation or being moved.
- 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 trencher in a safe transport position to prevent uncontrolled movement. Drive slowly over rough ground and on slopes.
- 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.
- Remove the trencher from the prime mover before transporting to and from the job site.

WARNING

- Trenchers 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 TRENCHER CONT....

- The trencher must be stopped before making adjustments to the attachment.
- Spoil augers shall be cleaned only when the rotating mechanism is in neutral and the spoil auger stopped; a long-handled shovel shall be used to move cuttings from the auger. Materials heavier than 10kgs must be moved mechanically or by using at least two people.
- Trenching 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.
- A trench that is left for prolonged periods of time must be capped and flagged so it is clearly identified on the work site.

WARNING

STORAGE OF THE TRENCHER

- 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 trencher 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, cap screws 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 of it operating.
- Loose fitting clothing, long hair, jewellery and equipment which might become entangled in moving equipment are prohibited while working near the Trencher.
- Operators, helpers, and other personnel working near Trencher 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 TRENCHER

- Before performing maintenance, lower the attachment to the ground, apply the parking brakes, turn off the engine, and remove the key.
- 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 Digga your local authorized Digga dealer.

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 Trencher on a machine that is not equipped with a cab or ROPS, and operator restraints (seat belts or equivalent devices).

6 SAFETY - WORKING WITH THE ATTACHMENT

TAKE EXTREME CARE WHEN DEALING WITH HYDRAULICS, WHILST ASSEMBLING, OPERATING, MAINTAINING OR PERFORMING ANY 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 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 loaders 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 Machines operator 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 Trencher.
- When making repairs use only authorised Digga service agents, and genuine Digga parts. For fasteners, hydraulic hoses, or hydraulic fittings, use only properly rated parts.
- Replacement parts must also have safety signs attached.

7 BEFORE USE

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

BEFORE FIRST USE

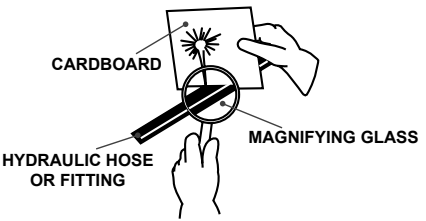
- Inspect the attachment for shipping damage. If damage does exist, do not operate until the damaged parts have been replaced or repaired.

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.

8 INSTALLATION AND OPERATING INSTRUCTIONS

The following instructions will help you to mount your Trencher onto your machine. The Trencher uses the quick-attach system for ease of installation. Therefore, if you know how to attach your loader bucket, attaching the Trencher should prove no problem. Remember to read all safety warnings, decals and operating instructions before operating the Trencher.

If there is any portion of this manual that you do not understand, contact your DIGGA dealer.

- Digga Trenchers are designed for cutting narrow, straight trenches in the soil prior to laying electrical, telephone and cable lines, or water and gas pipes.
- The DIGGA Trencher attaches to the toolbar/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 Trencher.
- When a Trencher 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 Trencher to other machines, you must first contact your DIGGA dealer and receive written confirmation to ensure you do not incorrectly fit the trencher to a machine with higher flows or pressure than what the Trencher was designed for.
- Refer to the serial tag for max flow and pressure ratings. Warranty will be void if the Trencher is fitted to an alternative machine without first receiving written confirmation from DIGGA or your DIGGA dealer.
- 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. DIAL 1100 (in Australia) or your relevant authority to obtain underground hazard information before you commence trenching.
- Review the job at hand and determine the chain type is appropriate for the intended trenching conditions. Ie. Do not use cup teeth in medium to hard conditions, Diggatac is the correct selection.

IMPORTANT! THE TRENCHER IS NOT A CHAINSAW AND MUST NOT BE USED ABOVE GROUND FOR CUTTING, SHEARING OR ANY OTHER USE BUT WHAT THE TRENCHER HAS BEEN DESIGNED FOR.

8 INSTALLATION AND OPERATING INSTRUCTIONS

SAFETY FIRST!! READ AND UNDERSTAND THE SAFETY INSTRUCTIONS BEFORE BEGINNING ANY TRENCHER MOUNTING.

1. Remove the shipping banding from around the Trencher and Frame/Hitch.
2. Remove any attachments from the front of the Parent Machine.
3. Check that all nuts and bolts are tightened on the frame or hitch and that the frame/hitch is correctly mounted on the trencher.
4. Following all standard safety practices and the instructions for installing an attachment in your machine operator's manual, install the Trencher 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. Once the Trencher is connected via the frame/hitch, 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. We recommend connecting the trencher on a bi-directional circuit, not a single acting hammer circuit. This will allow you to reverse the chain if it gets stuck.
8. Make sure the couplers are fully connected and locked.
9. Route the hoses in such a fashion as to avoid pinching or chafing.
10. Check the Chain teeth are not worn. Ensure all worn parts are replaced. Worn parts will become ineffective and severely diminish the overall performance of the Trencher.
11. The machine is now ready for use.

DO NOT LOCK THE AUXILIARY HYDRAULICS OF YOUR MACHINE IN THE "ON" POSITION. FAILURE TO OBEY THIS WARNING COULD RESULT IN DEATH OR SERIOUS INJURY.

SAFETY FIRST!! READ & UNDERSTAND THE SAFETY INSTRUCTIONS BEFORE BEGINNING ANY TRENCHER OPERATING.

FAILURE TO OBEY THE FOLLOWING PROCEDURES COULD RESULT IN DEATH OR SERIOUS INJURY.

Never lift this product above the operator's eye level OR to a height where visibility is obstructed, which ever is lower.

TRENCHER CHAIN SPEEDS

		Shaft Speed (Rpm)			Chain Speed (Rpm)			Hydraulic flowrate required to achieve chain speed. (L/min)		
No.	**Model**	**Minimum**	**Prefered**	Maximum	**Minimum**	**Prefered**	Maximum	**Minimum**	**Prefered**	Maximum
1	Bigfoot - 750 Boom	89	150	165	20	34	38	40	68	75
2	Bigfoot - 900 Boom	89	150	165	17	28	31	40	68	75
3	Hydrive - 900 boom	108	150	164	18	25	27	50	69	75
4	Hydrive - 1,200 boom	108	150	174	15	21	25	50	69	80
5	Bigfoot XD - 900 boom	110	130	211	20	24	39	60	71	115
6	Bigfoot XD - 1,200 boom	129	130	211	20	20	33	70	71	115
7	Bigfoot XD HF - 1,200 boom	124	130	200	19	20	31	105	110	170
8	Bigfoot XD HF - 1,500 boom	124	130	200	16	17	26	105	110	170
9	Hydrive XD - 1,200 boom	138	130	211	19	18	29	75	71	115

Please Note:

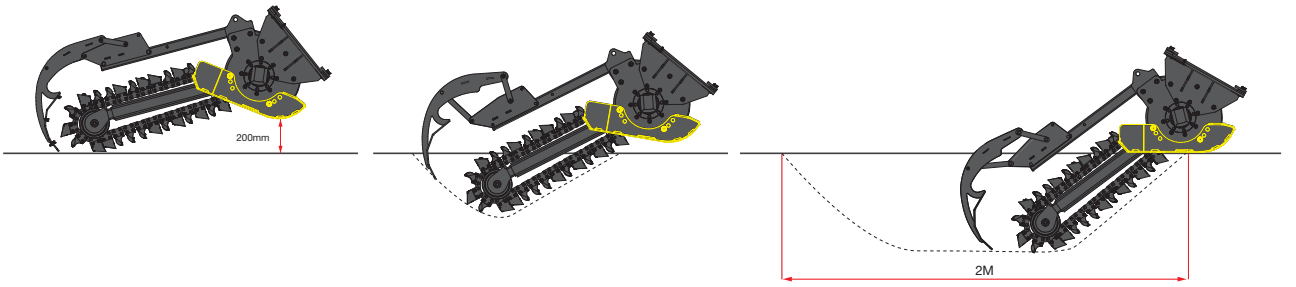
1. To calculate Chain Speed (Rpm), count the number of full revolutions the chain makes in a specific period of time. To do this, firstly ensure that the trencher is disengaged and stationary. If the chain does not already have one coloured tooth, paint one in a bright colour to make it easily visible when the chain is rotating.
2. With the chain rotating, count the number of times the chain makes a full revolution in 60 seconds. Every time that the brightly coloured tooth passes the same point on the trencher is one full revolution. Be sure to do this from a safe working distance and making use of the correct PPE.
3. Compare this value to the relevant trencher in the above table to give you a good idea whether or not you are operating within the ideal limits for your trencher.
4. Adjust the flow to the trencher or the rpm of the parent machine to either increase or decrease the chain speed to within the ideal limits of your trencher.
5. Should you have a tachometer, it can be used to measure the shaft speed, once again this can be compared the above table.
6. The required chain speed will be dependent on the type of soil and the condition thereof being trenched, harder substances will require higher torques and thus lower speeds. Softer soils on the other hand can be trenched at higher speeds.
7. Similarly the ground speed of the parent machine will also be dependent on these factors.
8. Operating the trencher at the maximum speed for prolonged periods of time or over the maximum speed will cause increased wear and eventual failure of the unit.

WHILE CHAIN IS MOVING ALL BYSTANDERS MUST BE A MINIMUM OF 6M/20FT AWAY. IT IS THE RESPONSIBILITY OF THE OPERATOR TO ENSURE ALL SAFETY PROCEDURES ARE FOLLOWED

TO CUT A TRENCH

1. Ensure the foot of your trencher is set in the correct position for the depth you wish to achieve (Bigfoot Trenchers only).
2. For Bigfoot Trenchers purchased after August 2014 your trencher will be fitted with a Headstart crumber bar. The crumber is an essential component of the trencher and draws the spoil up from the bottom of the trench, onto the chain. The crumber ensures you achieve a clear, clean trench. The crumber can be removed, but the trencher will not be able to effectively remove all of the spoil without the crumber. The Patented Digga Headstart crumber allows the operator to start the trench with the crumber in the locked down position.
3. Ensure that the chain has the correct tension. See Chain Adjustment in the maintenance section of this manual.
4. To calculate Chain Speed (Rpm), count the number of full revolutions the chain makes in a specific period of time. To aid you in this process, firstly ensure that the trencher is disengaged and stationary. If the chain does not already have one coloured tooth, paint one in a bright colour to make it easily visible when the chain is rotating.
5. Raise the Trencher so it is horizontal to the ground, with the bottom of the auger at approx 200mm off the ground, start the rotation of the chain. Ensure the chain is rotating freely before increasing RPM.
6. With the chain rotating, count the number of times the chain makes a full revolution in 60 seconds. Every time that the brightly coloured tooth passes the same point on the trencher is one full revolution. Be sure to do this from a safe working distance and making use of the required PPE specified earlier in this manual.
7. Compare this value to the relevant trencher in the table on the previous page, this will give you a good idea whether or not you are operating within the ideal limits for your trencher.
8. Adjust the flow to the trencher or the rpm of the parent machine to either increase or decrease the chain speed to within the ideal limits of your trencher.
9. Should you have a tachometer, it can be used to measure the shaft speed, once again this can be compared to the chain speeds table.
10. The required chain speed will be dependent on the type of soil and the condition thereof being trenched, harder substances will require higher torques and thus lower speeds. Softer soils on the other hand can be trenched at higher speeds.
11. Similarly the ground speed of the parent machine will also be dependent on these factors.
12. Operating the trencher at the maximum speed for prolonged periods of time or over the maximum speed will cause increased wear and eventual failure of the unit.
13. Engage the trencher slowly into the ground with a slight crowding forward so that the nose of the trencher engages first.

14. Progressively crowd the trencher over and allow it to engage deeper into the ground. DO NOT attempt to reach your full depth immediately, as you will potentially damage the crumber and danger bar. While slowly reversing your machine, continue rolling the trencher forward until the foot of your trencher is flat to the ground. This process should be done over a 2-4m distance until you reach the desired depth and will be dependent on the type of material you are trenching into. (It will take approximately 2m of trenching before you can operate at the desired depth)
15. Efficient trenching is a combination of power and speed. Once your trenching depth has been achieved, continue to reverse your machine ensuring you trench in a straight line whilst monitoring the chain speed. Ideally continuously reversing the parent machine at a constant speed whilst maintaining a chain speed above the minimum.
16. If using a Hydrive Trencher, ensure that both spoil augers are 20-50mm off the ground. If both spoil augers are touching the ground it will prevent the trencher from running at full power and reduces trenching performance.
17. If your trencher has the new Headstart crumber bar, you can start trenching with the crumber in the down position. Reverse the machine slowly from the moment you begin to trench. Never attempt to reach the desired depth without reversing.



8 INSTALLATION AND OPERATING INSTRUCTIONS

Do not apply excessive downward pressure on the Crumber Bar while beginning a trench. This will cause the spring to over extend as it is going down the first part of the trench resulting in Crumber failure and damage to the danger bar.
The Trencher is designed to operate with the depth adjustable 'foot' just on the ground. Do not apply excessive pressure to the foot. Under no circumstances should the front of the machine be lifted off the ground by the Trencher.

- The trencher is designed to cut straight trenches, it cannot be used for cutting trenches around corners. However if desired a curved trench can be achieved by cutting in a slow wide arc.
- The parent machine is to be reversed when trenching. You cannot trench while driving forward.
- If the trencher stalls while digging, raise sligthly and move forward to free the trencher then continue. Do not continually stall the trencher. Allow the trencher time to cut and clear spoil.
- Never use earth chains when digging in difficult hard ground conditions.
- Always check chain condition and ensure teeth & chain tension are tightened before use.
- Never continue to dig if the chain begins to jump (due to incorrect style/type of teeth used in harder ground conditions)

CAUTION: DO NOT RAPIDLY ENGAGE FORWARD AND REVERSE OR ON/OFF ROTATIONAL MOVEMENT TO CLEAR THE TRENCHER. THIS ACTION CAN CAUSE CAVITATION OF THE MOTOR AND VOID MOTOR WARRANTY.

REMOVAL AND STORAGE

1. Set the attachment on the ground and follow the standard shut down procedure in your loader operators manual.
2. With the loader OFF, disengage the attachment lock pins, release hydraulic pressure from the auxiliary hydraulic system and disconnect the hydraulic couplers from the loader.
3. Fit the supplied dust caps to the hydraulic couplers or alternatively connect them into one another to prevent the ingress of foreign matter into the hydraulics system of the trencher.
4. Disengage the machine's attachment locking pins. Start the machines engine and make sure that the lift arm is lowered and in contact with the loader frame.
5. Roll the attachment mechanism forward and slowly back up until the attachment is free from the machine.
6. Remove and store the attachment in a dry and protected place. Leaving the Digga Trencher outside will materially shorten its life.

WHEN ATTACHMENTS NOT ON PARENT MACHINE:

It is a requirement of the Australian Work place Health and Safety act 1995 that safe systems of work are employed when handling any attachments. Complete compliance with Work place Health and Safety issues is compulsory and all due care and attention must be observed at all times in any method of moving, transporting or storing any such device when not attached to a parent machine. We recommend attachments are well secured when being moved or in transit and furthermore prior to moving, storing, loading/unloading or parking it is suggested that the attachment is strapped/secured to a pallet or enclosed in a suitable container to minimise any movement or loss of the load during such activity. NO responsibility for loss or damage to persons or property in any regard can be attributed to Digga.

TRENCHING DEPTH (Bigfoot Trencher)

To adjust the trench depth on your trencher, you will need to loosen and remove the two 5/8" unc nuts and spring washers that hold the skid plate onto the trencher side plate. Then remove the skid plate and rotate it until the two fixed bolts line up with the holes for the trench depth that you require. See below illustration and take note of nut positions to suit trench depths. Then reassemble the skid plate onto the side plate, check that the star washers are still in good condition and tighten the nuts back up firmly using hand tools.

DEPTH SETTING 1

BFT-750	450mm
BFT-900	600mm
BFTXD-900	450mm
BFTXD-1200	600mm
BFTXD-1500	750mm

DEPTH SETTING 2

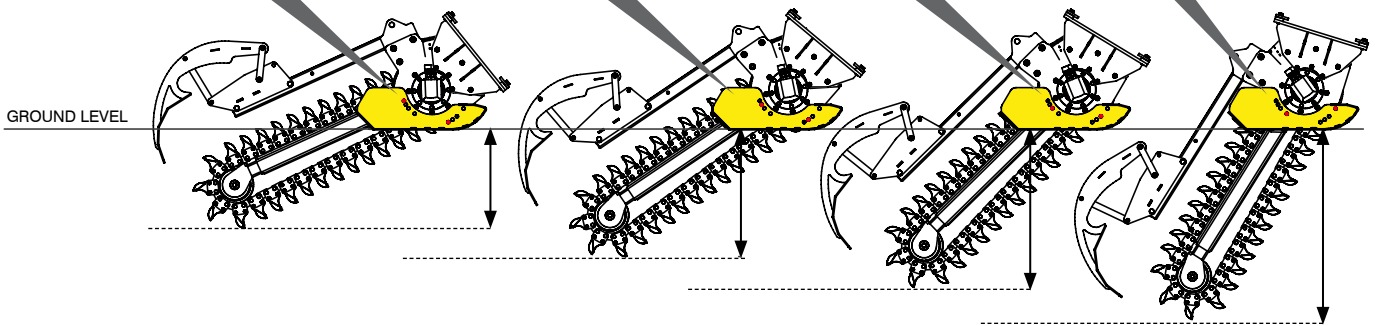
BFT-750	600mm
BFT-900	750mm
BFTXD-900	600mm
BFTXD-1200	800mm
BFTXD-1500	1000mm

DEPTH SETTING 3

BFT-750	750mm
BFT-900	900mm
BFTXD-900	750mm
BFTXD-1200	1000mm
BFTXD-1500	1250mm

DEPTH SETTING 4

BFTXD-900	900mm
BFTXD-1200	1200mm
BFTXD-1500	1500mm



TRANSPORTING THE ATTACHMENT

1. Follow all federal, state and local regulations when transporting the unit on public roads.
2. Use extra care when loading or unloading the machine onto a trailer or truck. Disconnect hydraulic couplers during transportation.

9 MAINTENANCE

SAFETY FIRST!! READ AND UNDERSTAND THE SAFETY INSTRUCTIONS BEFORE BEGINNING ANY TRENCHER 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, chain or chain teeth.
- Replace any damaged parts and excessively worn parts.
- Use only manufacturer recommended replacement parts. Other parts may be substandard in fit and quality.
- Always wear safety goggles or glasses when inspecting equipment.

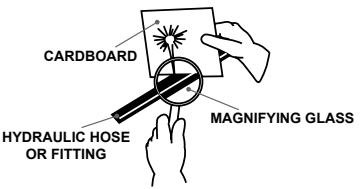
EVERY 10 HOURS OF USE

- Check the hydraulic oil level of the motor.

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.

ALWAYS ENSURE THAT THE HYDRAULIC MOTOR IS PRIMED WITH HYDRAULIC FLUID PRIOR TO USE FOLLOWING ANY REPAIRS TO THE TRENCHER, OR THE PARENT MACHINE. DO NOT ALLOW THE TRENCHER TO RUN WITHOUT OIL AT ANY TIME.

NOSE ROLLER BEARING REPLACEMENT

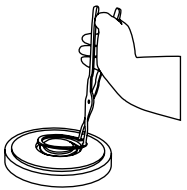


FIG 1

1. To replace the nose roller bearing, firstly remove circlip using a pair of straight circlip pliers Fig 1.

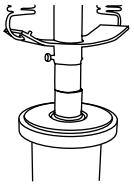


FIG 2

2. Use a press to push the bearing out ensuring the pipe underneath is larger than the bearing Fig 2.

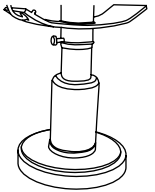
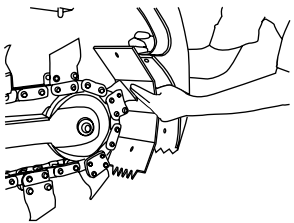


FIG 3

3. When pressing the new bearing in ensure the drift used is the correct size. ie; The drift must sit against the outside shell of the bearing being careful not to damage the ring that holds the bearing together, make sure the bearing is sitting against the lip on the opposite side of the nose roller and replace circlip.

NOTE: A HAMMER IS NOT RECOMMENDED FOR THIS PROCEDURE AS IT CAN DAMAGE THE NEW BEARING.

SCRAPER SHOE REPLACEMENT



SCRAPER SHOE

The Scraper shoe is designed to be interchangable should it get damaged or a different chain is fitted to the trencher. To replace simply remove the 3 nuts and bolts holding it in place. Replace the shoe and tighen the bolts using hand tools.

IMPORTANT: SHUT DOWN TRENCHER & MACHINE BEFORE ANY ADJUSTMENTS ARE MADE

SPROCKET REPLACEMENT

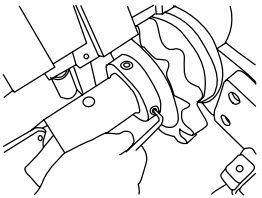


FIG 1

Firstly remove ½" bolt holding the auger, then remove auger. Using a 3⁄16" Allen key loosen the ² grub screws in the retaining collar and slide collar off the shaft. (shown in Fig ¹).

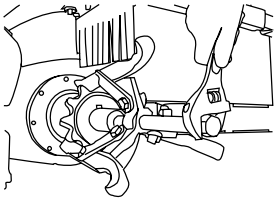


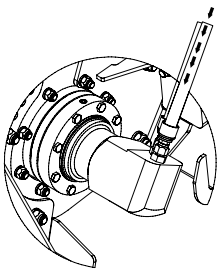
FIG 2

Slide the sprocket off the shaft and replace with new sprocket. It is recommended Anti-seize be applied to shaft before replacement of sprocket (Shown in Fig 2)

NOTE: IF THE SPROCKET CANNOT BE REMOVED BY TAPPING WITH A HAMMER THEN A PULLER MAY HAVE TO BE USED.

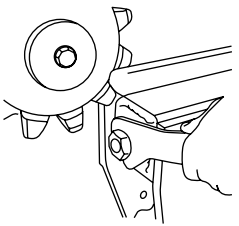
HYDRAULIC HOSE CONNECTION

SUPPLY FROM MACHINE



1. The Trencher chain must rotate in an anti-clockwise direction (when viewed from the motor side of the Trencher). The supply line from the parent machine must be connected to the 'A' port on the Trencher motor.

BOOM ADJUSTMENT



1. Use spanner supplied to wind adjuster nut clockwise for loosening, anti-clockwise for tightening.

SEAL REPLACEMENT

NOTE: MAKE SURE ALL GEAR OIL IS DRAINED BEFORE REMOVING THE SEAL.

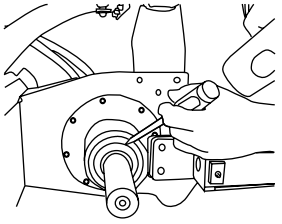


FIG 1

Before the seal can be replaced remove retaining collar and sprocket as shown in sprocket replacement. Then remove the key and seal protector. Use a pin-punch or round pointed awl and tap gently to pierce through the seal face and then lever out the seal. Fig 1. Inspect the inside of the housing for damage and if damaged or burred, clean up with emery cloth.

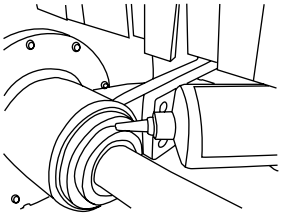


FIG 2

Before the seal can be replaced run some grease around the inside lip of the seal for lubrication to the shaft. Ensure there are no burrs on the shaft between the end of the shaft and the end of the housing. File if necessary. Using loctite 243 (or equivalent) run a small bead around the outside of the seal see Fig 2.

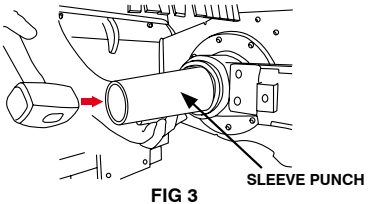
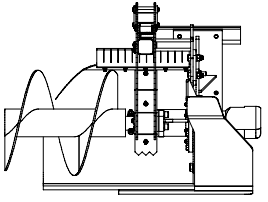


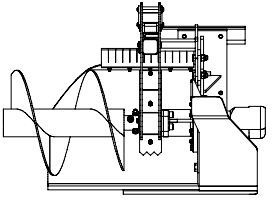
FIG 3

Proceed to fit the seal by using a large punch/sleeve/collar and gently tap the seal into place ensuring the seal is punched in evenly (see Fig 3). This is very important as any misalignment could cause damage to the seal and promote a leak. The seal must be flush with the end of the housing. Replace seal protector, key, sprocket and retaining collar. Refill the planetary with gear oil (See Maintenance on pg 29 for the correct grade of gear oil).



AUGER ADJUSTMENT

1. The spoil removal auger has 2 settings. When a 150mm or 200mm chain is being used the auger must set closer to the chain. Use the bolt hole which is closer to the auger flights. The auger flights should be atleast 100mm from the chain.



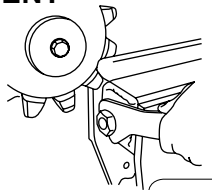
IMPORTANT

When a 250mm or 300mm chain is being used it is important that the Augers is set further away from the chain. Use the bolt hole which is further away from the auger flights. The auger flights should be atleast 100mm from the chain.

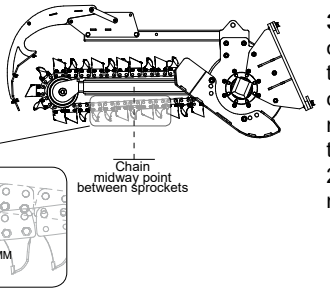
9 MAINTENANCE

CHAINADJUSTMENT

1. To either adjust chain or remove chain – remove the ½" Bolt holding spanner to outer boom.



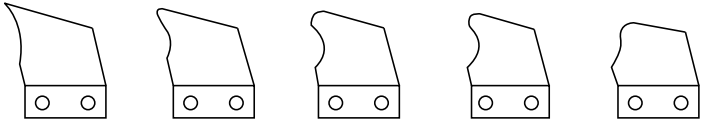
2. Use spanner supplied to wind adjuster nut clockwise for loosening, anti-clockwise for tightening.



3. To achieve the correct chain tension: Adjust the tension on the lower chain section at the midway point between the sprockets to allow 20mm-30mm of vertical movement.

TYPE OF DIGGING CONDITIONS.

Cup Teeth wear on the tip and side bulge in varying amounts.Wear patterns change with different digging condition. Rocks will take the points off faster than sides. Sandstone or highly abrasive materials will wear out the side bulges faster. Rock will be the most severe. Sharp Teeth are important to good performance, when Teeth wear out, production will drop sharply, increasing wear and tear on other components.



Normal replacement should be made between 30% and 60% reduction in performance. Diggatac and frost teeth and chains will greatly improve cost/benefits in severe materials. These special options are built up from hard rock mining machine components and utilise hard carbide tipped teeth.

For further information on spare parts please contact one of the Digga sales office or your closest authorised Digga Dealer. See page 33 for contact details.

PLANETARY GEAR OIL

The Trencher Planetary Unit is a sealed Unit. If there is any sign of oil leaks please contact your nearest DIGGA dealer before carrying out any repairs, as there can be other causes for seal leaks.

OPERATING IN ASIA PACIFIC AND EUROPE

The Planetary Drive Unit in the Trencher when operating in Asia Pacific and Europe uses the Gear Oil **VALVOLINE EPG ISO 320** (mineral oil) for lubrication of gears and bearings. **Minimum and maximum gear oil operating temperatures** for these regions is -5°C (23°F) to 120°C (248°F). Please contact your Digga specialist for the recommended Gear Oil if operating outside this range.

OPERATING IN NORTH AMERICA

The Planetary Drive Unit in the Trencher when operating in North America uses the Gear Oil **CHEVRON MEROPA ISO 320** (mineral oil) for lubrication of gears and bearings. Minimum and maximum gear oil operating temperatures for this region is -18°C (-0.4°F) to 107°C (225°F). Please contact your Digga specialist for the recommended Gear Oil if operating outside this range.

- Continuous operating temperature must not exceed 80°c.
- During extended stationary periods (one month or more), the unit should be run monthly to immerse all internals in oil, thereby preventing corrosion.
- Oil should be changed when hot, to prevent a build up of sludge deposits. Flush interior of unit with fluid recommended by oil companies.
- Check for leaks regularly and if an oil leak is detected contact your nearest DIGGA Dealer for remedy instructions.
- Use only the prescribed oil when refilling. Valvoline EPG ISO 320 Gear Oil.
- DO NOT mix oil of different viscosity, NOT even those of the same brand.
- NEVER mix mineral and synthetic oils.
- Cleanliness is necessary when changing oil.

OIL CHANGED SCHEDULE

IMPORTANT

- First oil change MUST be carried out within the first 30 hours of use under EXTREME OPERATING CONDITIONS **OR** the first 50 hours of use under MODERATE OPERATING CONDITIONS.**OR** 3 MONTHS Which ever comes first. Thereafter, every 300/500 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, trenching in hard ground.) Thereafter, every 300 hours.
- Contact your nearest DIGGA Dealer for Gear Oil change procedure.

THE GEARBOX OIL CAPACITY IS ENGRAVED ONTO THE SERIAL TAG LOCATED ON THE TRENCHER

FITTING A TRENCHER CHAIN - BIGFOOT / BIGFOOT XD

CAUTION: ALL WORK SAFE PRACTICES AND PROCEDURES MUST BE ADHERED TO AND APPROPRIATE PPE MUST BE WORN.

FIGURE1

FIGURE2


FIGURE3

FIGURE5

1. Start with the Trencher securely attached to a lifting device or machine, ensure the adjustable boom is fully retracted.
2. Place Trencher on the ground, position chain in front of the nose roller with cutting edge of the tooth facing away from the Trencher. (Figure 1)
3. Lift chain onto Nose Roller (Figure 2) - A suitable lifting device may need to be used for the larger heavier chains
4. Slide the chain along the boom and over the drive sprocket. (Figure 3)
5. Raise the Trencher - Ensuring the Trencher is supported and cannot fall whilst raised from the ground - Bring both ends of the chain under the boom. (Figure 4)
6. Bring both ends of the chain together and insert the joining pin. The joining pin must be inserted from the correct side which is identified by looking at the head of the other link pins and matching it to the same side. (Figure 5)
7. Tap the joining pin fully home using a soft head mallet. (Figure 6)
8. Insert the keeper pin and bend to secure. (Figure 7)
9. Adjust the chain tension and replace spanner to side of boom. (Figure 8)


FIGURE5


FIGURE6


FIGURE7


FIGURE8

FITTING A TRENCHER CHAIN - HYDRIVE / HYDRIVE XD

CAUTION: ALL WORK SAFE PRACTICES AND PROCEDURES MUST BE ADHERED TO AND APPROPRIATE PPE MUST BE WORN.

FIGURE1

FIGURE2

FIGURE3

FIGURE4

1. Start with the Trencher securely attached to a lifting device or machine, ensure the adjustable boom is fully retracted.
2. Place Trencher on the ground, position chain in front of the nose roller with cutting edge of the tooth facing away from the Trencher. (Figure 1)
3. Lift chain onto Nose Roller (Figure 2) - A suitable lifting device may need to be used for the larger heavier chains
4. Slide the chain along the boom and over the drive sprocket and down past the idle sprocket. (Figure 3)
5. Raise the Trencher - Ensuring the Trencher is supported and cannot fall whilst raised from the ground - Bring both ends of the chain under the boom. (Figure 4)
6. Bring both ends of the chain together and insert the joining pin The joining pin must be inserted from the correct side which is identified by looking at the head of the other link pins and matching it to the same side. (Figure 5)
7. Tap the joining pin fully home using a soft head mallet. (Figure 6)
8. Insert the keeper pin and bend to secure. (Figure 7)
9. Adjust the chain tension and replace spanner to side of boom. (Figure 8)

FIGURE5

FIGURE6

FIGURE7

FIGURE8

10 SAFETY - STICKER LOCATION

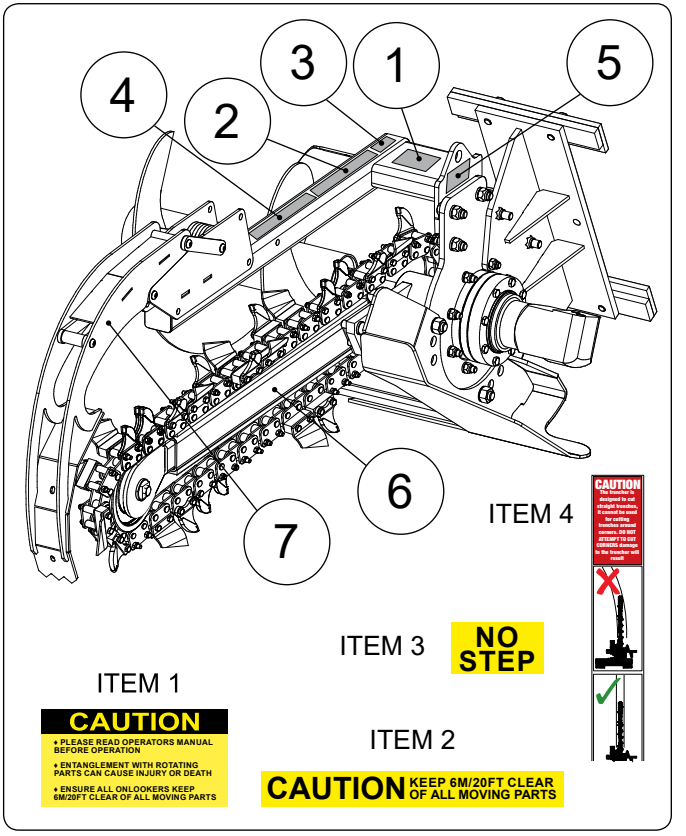
PLACEMENT / REPLACEMENT OF SAFETY SIGNS

1. Clean the area of application with non-flammable solvent, then wash same area with soap and water.
2. Allow the surface to fully dry.
3. Remove the backing from the safety sign, exposing the adhesive surface.
4. Apply the safety sign to the position shown in the diagram above and smooth out any bubbles.

INSTRUCTIONS

- Keep all safety signs clean and legible.
- Replace all missing, illegible, or damaged safety signs.
- Replacement parts for parts with safety signs attached must also have safety signs attached.
- Safety signs are available from your dealer for from Digga Australia.

ITEM	ORDER CODE	DESCRIPTION	QTY
1	DE-000088	CAUTION - PLEASE READ	1
2	DE-000034	CAUTION - 6M/20FT CLEAR	1
3	DE-000054	DECAL - NO STEP	1
4	DE-000167	CAUTION - TRENCH STRAIGHT	1
5	DE-000063	DIGGA SERIAL TAG	1
6	DE-000047	DECAL - DIGGA	2
7	DE-000436	DECAL - HEADSTART CRUMBER	2



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

DIGGA INTERNATIONAL SALES OFFICES

ASIAPACIFIC

DIGGA HEAD OFFICE - BRISBANE
4 Octal St, Yatala QLD 4207

PH: (07) 3807 3330

FAX: (07) 3807 1499

EMAIL: info@digga.com

DIGGA NEW SOUTH WALES
Unit 2, 36 Bluett Drive,
Smeaton Grange NSW 2567

PH: (02) 4647 1400

FAX: (02) 4647 1433

EMAIL: nsw@digga.com

DIGGA VICTORIA
21-25 Villas Road,
Dandenong, VIC 3175

PH: (03) 9706 6171

FAX: (03) 9706 6164

EMAIL: vic@digga.com

WEB: www.digga.com

NORTH AMERICA

DIGGA NORTH AMERICA
2325 Industrial Parkway SW
Dyersville IA 52040

PH: + 1 563 875 7915

WEB: www.diggausa.com

EMAIL: info@diggausa.com

EUROPE

DIGGA EUROPE
Unit 6, Smitham Bridge Road
Hungerford Trading Estate,
Hungerford, Berkshire RG17 0QU
England, United Kingdom

PH: +44 (0) 1488 688 550

WEB: www.diggaeurope.com

EMAIL: info@diggaeurope.com

CHAIN

TROUBLE	POSSIBLE CAUSE	REMEDY
Chain does not turn	Quick coupler not completely engaged	Check and complete engagement
	Quick coupler failure	Replace faulty coupler
	An obstruction in one of the hose	Remove obstruction
	Hydraulic motor failure	Repair or replace. Contact DIGGA dealer
	Chain drive failure	Check & repair. Contact DIGGA dealer
	Nose roller bearing failed	Replace bearing
	Digging chain too tight	Loosen chain tension
	Sand or spoil material build up in tooth root of sprocket	Raise out of ditch, reverse chain & run to clear build up OR Loosen chain tension

DIGGING

TROUBLE	POSSIBLE CAUSE	REMEDY
Does not dig fast enough	Worn Teeth	Replace teeth if necessary
	Relief valve set below specifications	Test and reset if necessary
	Quick coupler or Hose restriction	Inspect and repair as needed
	Hydraulic system too hot	Shut down and cool
	Cutting a ditch size beyond the machine capabilities	REMEMBER: Your Trencher only has the horsepower transmitted through the Hydraulic Hoses, NOT the full horsepower of the engine
	Auger/s running on the ground	Raise Trencher - Keep Auger/s off ground
	Chain too tight	Adjust to Proper Tension

BOOM, DANGER BAR, FOLDBACK CRUMBER BAR

TROUBLE	POSSIBLE CAUSE	REMEDY
Trenching Boom bent	Abuse	Replace
Danger Bar bent	Abuse	Replace
Fold back CRUMBER BAR bent	Abuse	Replace

HYDRAULIC OIL

TROUBLE	POSSIBLE CAUSE	REMEDY
Hydraulic oil overheating	Relief valve set too low on Parent Machine.	Test & set as needed.
	Restriction in Quick Release Coupler or hose.	Inspect and repair as needed
	Hydraulic Motor or hoses not size balanced to Parent Machine	Check flows and recommendations and change if necessary. (see DIGGA Dealer)
	Parent Machine not equipped with oil cooler or sufficient sump capacity	Stop and allow to cool naturally when it gets hot.

WARRANTY

Motor - Limited warranty up to 2 years, subject to manufacturers inspection.

Gearbox - Warranty up to 3 years, subject to manufacturers inspection.

All new DIGGA products are warranted to be free from defects in material and 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. The warranty does not extend to transportation cost of parts nor does it cover consequential loss, damage to Hydraulic Hoses or ground-engaging parts such as Sprockets, Digging Chain, Bearings, and Teeth.

DIGGA EQUIPMENT MUST BE OPERATED IN ACCORDANCE WITH THE RECOMMENDED PROCEDURES AND WITHIN THE RANGES AS SPECIFIED BOTH ON THE UNIT AND CONTAINED IN THE OPERATING MANUAL.
The warranty will be considered void if the product or any part of the product us modified or repaired in any way not expressly authorized 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 claims under this warranty must be made within fourteen (14) days after the buyer learns of the facts upon which claim is based. All claims not made in writing and not received by DIGGA within the time specified above may be deemed waived. DIGGA will not be responsible for or accept any charges for work carried out by any repairers, or for charges for any spare parts fitted to any DIGGA products without written approval from DIGGA.

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