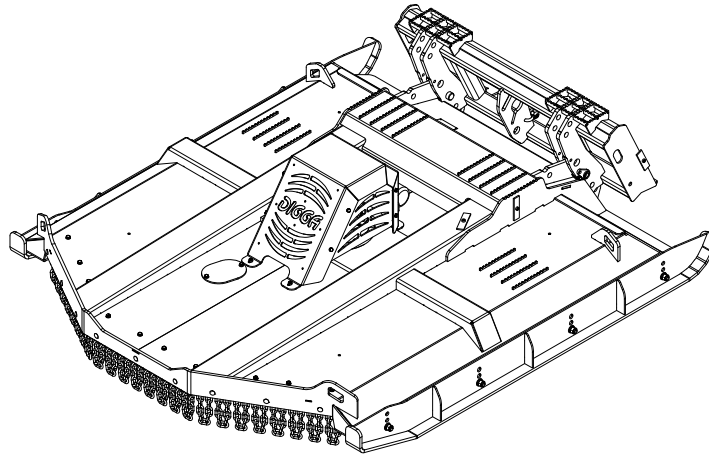


BRUSH CUTTER OPERATOR'S MANUAL



DIGGA

PM-000298
ISO V1.0

MY.DIGGA.COM



DECAL IS APPLIED TO THE
ATTACHMENT

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DECAL TO BE APPLIED TO
WINDOW OF MACHINE

ACCESS OPERATOR MANUALS RISK ASSESSMENTS AND MORE

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To the Purchaser

Thank you and congratulations on the purchase of your new Digga Brush Cutter.

This product was carefully designed and manufactured to give you years of dependable service. It is mandatory to read these instructions to keep the equipment running in top working condition.

Before Operation

Inspect the attachment for shipping damage and if any damage does exist, do not operate until the damaged parts have been replaced or repaired. 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 understood this manual. If there is any portion of this manual or function you do not understand, contact your local authorized Digga dealer or the manufacturer to obtain further assistance. Keep this manual available for reference. Provide the manual to any new owners and/or operators.

About This Manual

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

Service

Use only manufacturer replacement parts. Substitute parts may not meet the required standards.



CAUTION

Never allow anyone to operate this attachment without reading the “Safety precautions” and “Operating instructions” sections of this manual. Always choose hard and level ground to park the vehicle on and set the brake, so the unit cannot roll.

Product Identification

Your Digga Brush Cutter model provides important information about the product. Compare the model engraved on the serial plate to the list below.

MODELS COVERED IN THIS MANUAL	
BRUSH CUTTER	
SL-001110	72" BRUSH CUTTER - STANDARD - 17 TO 20 GPM - MULTIFIT
SL-001111	72" BRUSH CUTTER - STANDARD - 21 TO 26 GPM - MULTIFIT
SL-001112	72" BRUSH CUTTER - STANDARD - 27 TO 34 GPM - MULTIFIT
SL-001113	72" BRUSH CUTTER - STANDARD - 35 TO 46 GPM - MULTIFIT

Product Identification

Your Digga Brush Cutter has user serviceable parts. When servicing or assembling your product, use only genuine Digga replacement parts. Substitute parts may not meet the standards required for safe and dependable operation. Use of non genuine Digga parts will void warranty and Digga accept no liability what so ever for consequential or special damages. All service must be performed by qualified professionals. 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.

DIGGA www.diggausa.com		Digga North America 2025 Industrial Parkway SW Oremville, Iowa 50465, USA		UK CA	CE
Model	_____				
Name	_____				
Serial No.	_____				
Flow (max)	_____				
Pressure (max)	_____				
Power (max)	_____	RPM (max)	_____	DE-000629 MADE IN THE USA	
Approx. Oil Capacity	_____	Tr. Manuf.	_____	Weight	_____

DE-000629

Model: _____

Serial Number: _____

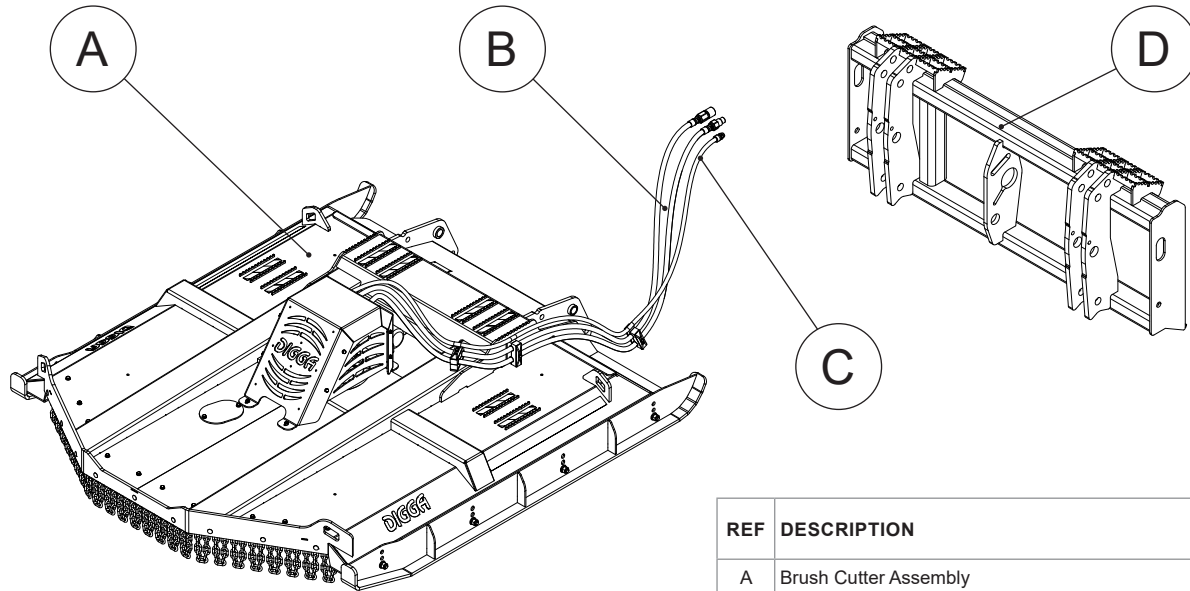
Purchase Date: _____

NOTE

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

Preparation for use

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



REF	DESCRIPTION	QTY
A	Brush Cutter Assembly	1
B	Hydraulic Hoses and Couplers	Set
C	Case Drain Hose	1
D	Multifit Frame	1

Safety Precautions - General Information

You must understand all safety statements shown on your attachment and in this manual. Especially note the information called out by the designations shown below. Follow these safety precautions, when operating or maintaining the attachment.

DANGER

The **DANGER** designation indicates an imminently hazardous situation that, if not avoided, will result in death.

WARNING

The **WARNING** designation indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION

The **CAUTION** designation indicates a potentially hazardous situation that, if not avoided, could result in minor or moderate injury or property damage.

NOTE

You will also see information called out with the **NOTE** designation. This additional safety or general information is important to the maintenance and operation of your loader.

During day-to-day operation of your attachment, you will encounter a variety of situations beyond those listed in this manual. We encourage you to assess the risk present at any job site and in every work task before beginning work. Apply appropriate risk mitigation strategies to make safety a first priority at all times, and if these are not sufficient, stop the job and immediately seek the help of a qualified safety consultant.

Safety Precautions - General Information

Know where utilities are

- Observe overhead electrical and other utility lines. Be sure the equipment will clear them.
- Before starting any digging project, lodge an enquiry with "CALL 811 USA NORTH" or your local utilities location service for the identification of buried electrical, telephone, cable wires, gas, water and sewer lines are likely to be present. Unintentionally disrupting these hidden hazards while working with your loader can result in dangerous situations and property damage.
- Only commence works after having received and studied the underground plans and information thoroughly. Never begin work until the work area has been fully marked for underground utilities.
- For more information about digging best practices access www.usanorth811.org. Many countries offer a similar service which advises the location of underground services in your area. If available use this service prior to digging, drilling, trenching or any form of excavating and earthmoving.



CAUTION

You must ensure that underground utilities have been officially marked before working in the area. Markings must be valid according to state law or practice.

Exposure to Respirable Crystalline Silica Dust Along with Other Hazardous Dusts

- It is recommended to use dust suppression, dust collection, and if necessary personal protective equipment during the operation of this or any other machine attachment that may cause high levels of dust.

Safety Precautions - General Information

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 the 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 the area. Allow fumes to disperse at least 15 minutes before welding or heating.

End of Life Disposal

- At the completion of the useful life of the Digga Brush Cutter, 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.

Safety Precautions - General Information

Operating the Brush Cutter

- The primary responsibility for safety with this equipment falls to the operator. Make sure that the equipment is operated only by trained individuals, who have read and understood this manual.
- 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 the equipment.
- Don't hurry the learning process or take the unit for granted.
- It is the skill, care, common sense, and good judgment of the operator that will determine how efficiently and safely the job is performed.
- Visually inspect your equipment, ensure correct assembly and installation is done and never operate the equipment that is not in proper working order.
- Know the capabilities of your equipment and practice its operation to become familiar with the controls, emergency shut down procedures, and the way it handles on your machine.
- Follow all safety decals and keep them clean. Replace them, if they become worn, damaged or illegible.
- Do not paint over, remove or deface any safety signs or warning decals on your equipment.
- Operate only from the operator's station and operate only in daylight or with sufficient artificial light.
- Always carry loads close to the ground and do not exit the machine with the loader arms raised.
- Do not exceed rated operating capacity (ROC) of the host machine, as machine may become unstable resulting in loss of control. Overloading or exceeding the manufacturers specifications will also void all warranty.
- Always lower the loader arms or the machine boom to the ground, shut off the engine and remove the key before getting off the unit.
- Remove the Brush Cutter from the parent machine before transporting to and from the job site.

Safety Precautions - General Information

- Never use the attachment on a machine that is not equipped with a cab rollover protective structure (ROPS) and/or falling object protective structure (FOPS), and operator restraints (seat belts or equivalent devices).
- Establish and maintain a minimum 200 feet (61 meters) exclusion zone around the working area. No person other than the operator should enter the work zone, while the parent machine's engine is running.
- When mounted onto a loader, do not operate the brush cutter with the back of the attachment over 12" above the ground.
- Do not allow site workers to climb on the attachment at any time, including while stationary, in operation or being moved.
- Avoid steep hillside operation which could cause the machine to overturn. Consult your host machine operator's and safety manual for maximum allowable incline.
- Reduce speed when driving over rough terrain, on a slope or turning to avoid overturning the machine.
- Travel only with the Brush Cutter in a safe transport position to prevent the uncontrolled movement.
- Drive slowly over rough ground and on slopes.
- Do not drive close to ditches and excavations, etc., as cave in could result.
- Flow and pressure gauges, fittings, and hoses must have a continuous operating pressure rating of at least 25% higher than the highest pressure of the system.
- All 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.
- Be alert to others in the work area. Be sure others know when and where you will be working.
- Loose fitting clothing, long hair, jewellery and equipment which might become entangled in moving equipment are prohibited while working near the Brush Cutter.

Safety Precautions - General Information

- Operators, helpers, and other personnel working on the attachment must wear steel-toe safety shoes, safety glasses, and hard hats as a minimum. Hearing protection, respirators, and personal protective clothing will be specified in the site-specific Health and Safety Plan.
- The Brush Cutter shall be cleaned only when the mechanism is in neutral and stopped. Materials heavier than 10 kg must be moved mechanically or by using at least two people.
- The Digga Brush Cutter shall be used only for its designed intent and shall not be loaded beyond its rated capacity. Overloading or exceeding the manufacturers specifications will void all warranty.



CAUTION

Wait for the mechanism completely stop before making any adjustments or cleaning.



DANGER

Do not attempt to work under the Brush Cutter when lifted by the prime mover.



DANGER

During Brush Cutter operation, maintain a minimum “no-work zone” buffer of 10 feet (3 meters) from any overhead electrical service and 6 feet (2 meters) from any underground service . All bystanders should be kept at a minimum of 200 feet (61 meters) away from the working area of the Brush Cutter.

Safety Precautions - General Information

Storing your Brush Cutter

- Seal hydraulic couplers from contaminants and secure all hydraulic hoses off the ground to help prevent damage. The two hose couplers can be connected together to prevent contaminants from entering the hydraulic system.
- Clean the unit thoroughly by removing all mud, dirt, grease, etc..
- Inspect for visible signs of wear, breakage, or damage. If required, order any damaged parts and perform the necessary repairs to avoid delays upon removal from storage.
- Check that hydraulic motor and hoses are full of clean oil and apply grease to all grease nipple points. See page 37.
- Coat liberally with grease all connecting pins to prevent rust and reduce wear.
- Tighten loose nuts, cap screws, and hydraulic connections.
- Replace safety decals that are damaged or in an unreadable condition.
- Store unit in a dry and protected place, as leaving the unit outside will materially shorten its life.

Maintaining the Brush Cutter

- All maintenance should be performed with the engine of the host machine turned off, parking brakes applied, machine arms lowered, and hydraulic pressure relieved.
- Lock out and tag out the equipment before repairs or maintenance is performed.
- Only properly trained and qualified individuals are permitted to perform repairs and maintenance.
- 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.
- Never adjust a relief valve for pressure higher than recommended by the machine's manufacturer.

Safety Precautions - General Information

Transporting the Brush Cutter

- When transporting your attachment, follow all local government regulations that may apply along with any equipment safety precautions provided in this manual.
- It is the responsibility of the operator that safe systems of work are employed while handling this attachment.
- Six tie down/lashing points are provided on the attachment and identified by decals. See pages 21, 23 & 34.
- Its the responsibility of the operator to ensure that the attachment is firmly fastened without causing any damage to it.
- Do not attach tie down accessories around the hydraulic motor hood or in any way that may damage hoses or hydraulic components.
- Attachment should be well secured, when being moved or in transit and furthermore prior to moving, storing, loading/unloading,or parking.
- Verify that all tie down accessories (chains, slings, ropes, shackles, etc.) are capable of maintaining attachment stability during transporting and are attached in such a way to prevent unintended engagement or shifting of the unit.
- Use extra care when loading or unloading the attachment on to a trailer or truck and disconnect hydraulic couplers during the transportation. No responsibility for loss or damage to persons or property in any regard can be attributed to Digga.

Safety - Working with the Attachment

Complete a Risk Assessment

Your Digga Brush Cutter is a versatile machinery attachment, capable of performing its tasks in a safe and effective manner. To ensure the safety of operators and others, it is important to document the work at hand for hazard and risk. Before beginning work, complete a risk assessment. The following steps provide a framework for this activity:

1	DOCUMENT THE ACTIVITY Assemble those involved in the activity. Write down the tasks required for the activity in step-by-step form.
2	IDENTIFY THE HAZARDS Next to each task, identify what part of the task may cause injury to those engaged in the task or others in the vicinity. Rate the consequences and likelihood of the hazard using the risk assessment matrix.
3	DOCUMENT THE CONTROL MEASURES Using the results from the risk assessment matrix, determine which hazards require attention. List all mitigation measures that are required to eliminate or minimize those hazards.
4	IDENTIFY THE RESPONSIBLE PERSON Document the name of the person responsible for implementation of the mitigation measure.
5	MONITOR AND REVIEW Ensure that the activity is supervised and that the documented process is being followed.

NOTE

Remember, Personal Protection Equipment (PPE) provides a level of protection during work, but PPE is the last level of hazard control and prevention. Always refer to the hierarchy of hazard control, when planning a safety process.

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 may develop gangrene or other permanent disabilities. **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 manual for detailed instructions on connecting and disconnecting hydraulic attachments.
- Ensure 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.
 - Ensure that the hoses cannot interfere with or actuate the quick-attach mechanism.
 - Ensure that hoses will not be pinched, or get tangled, in any equipment.
- Do not lock the auxiliary hydraulics in the "ON" position.
- Refer to host machine operator's manual and this manual for procedures and service intervals, then inspect and maintain the entire hydraulic system to ensure that the fluid remains clean, that all devices function properly, and that there are no fluid leaks.

NOTE

For any additional safety information please see "Risk Management Booklet". To obtain a copy of this document please contact Digga Head Office.

Safety - Working with the Attachment

When Mounting this Product to Your Machine

- Refer to the operator's manual of your host machine for any special or detailed mounting instructions regarding quick-attach mechanism.
- 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.
- Where enabler 'Dead Man' controls are installed it is illegal to disengage, tamper with, or remove them.



WARNING

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.

When Adjusting Servicing or Repairing this Product

- Do not make any modifications to your Digga Brush Cutter.
- When making repairs use only competent service agents and use only genuine Digga parts. For fasteners, hydraulic hoses, or hydraulic fittings, use only properly rated parts.
- Replacement parts must also have safety signs attached.



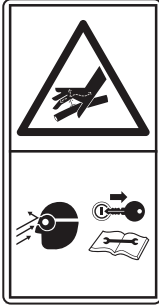





CAUTION

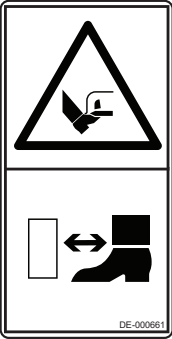

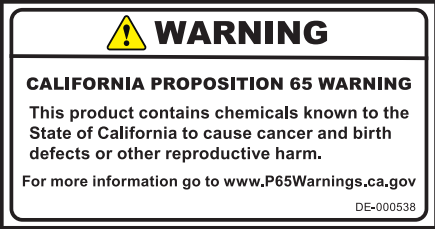



Wait for all moving parts to stop completely before making any adjustments or cleaning.

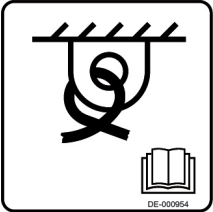
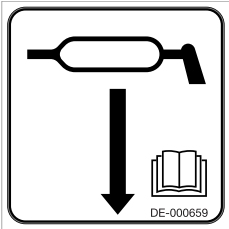
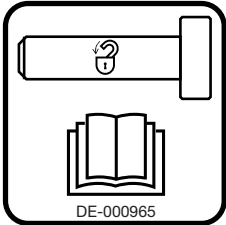

Safety - Decal Labels

This section provides a glossary of safety labels found on your Digga Brush Cutter. These labels are important! Become familiar with both their meaning and location prior to operating the attachment. Ensure that each label is clean, visible, and legible at all times. To clean the decal, use a soft cloth, water, and soap. Avoid the use of solvents, gasoline, or other harsh chemicals, as these may damage the decal. If a label has been damaged or removed, it must be replaced.

READ OPERATOR'S MANUAL	DO NOT RIDE ON THE ATTACHMENT	HIGH PRESSURE FLUID
		
<p> DANGER Completely read and understand this operator's manual before using your attachment. Keep the manual with the attachment at all times.</p>	<p> WARNING Do not allow persons over the attachment. Do not ride on the attachment.</p>	<p> WARNING Pressure injection risk of injury: This machine operates on high-pressure hydraulic fluid. Always wear eye protection and shut-off the engine before performing maintenance on this machine. See page 17.</p>

Safety - Decal Labels

LACERATION HAZARD	FLYING DEBRIS	PROPOSITION 65
		
 DANGER Keep feet and other body parts away from the attachment.	 WARNING Objects can be thrown. Keep all bystanders at least 200ft (61m) from the equipment.	 WARNING This product contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For information go to: www.p65warnings.ca.gov

LASHING POINT	GREASE POINT BELOW	LOCK PINS	MY.DIGGA.COM
			
<p><u>NOTE</u> Use the lugs provided to lift or lash the attachment. Refer page 34.</p>	<p><u>NOTE</u> The label indicates the position of the grease nipples. Refer to "Lubrication" on page 37.</p>	<p><u>NOTE</u> The label indicates where to place the lock pins.</p>	<p><u>NOTE</u> Scan the QR-code to access: my.digga.com Find manuals, safety information, guides and more.</p>

Safety - Decal & Serial Tag Locations

Item 1



Item 2



Item 3



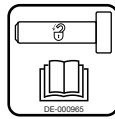
Item 4



Item 5



Item 6



Item 7



Item 8



Item 9



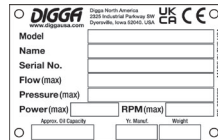
Item 10



*Item 11



*Item 12

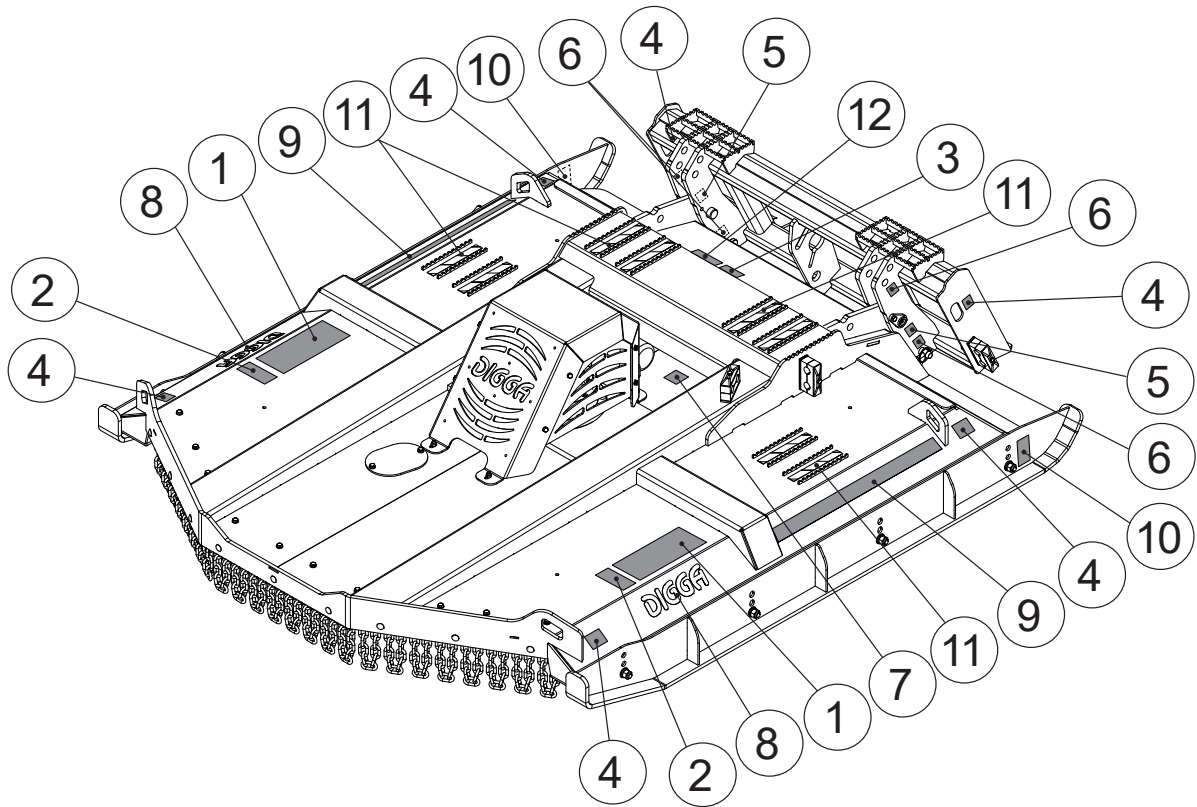


NOTE

*ITEM 11 & 12 are not included in the DKIT1181.

DKIT1181			
ITEM	ORDER CODE	DESCRIPTION	QTY
1	DE-000661	MULTI SAFETY SIGN	2
2	DE-002366	FLYING DEBRIS / KEEP DISTANCE	2
3	DE-000538	CALIFORNIA PROPOSITION 65	1
4	DE-000954-1	LASHING POINTS	6
5	DE-000659	GREASING POINTS	2
6	DE-000965	LOCK PINS	4
7	DE-000850	MY.DIGGA.COM QR CODE	1
8	DE-000454	DIGGA LOGO	2
9	DE-002367	DANGER STAND CLEAR 200 FEET	2
10	DE-002365	HEIGHT DECAL	2
*11	DE-002364	HI VISIBILITY ANTI SLIP TAPE	8
*12	DE-000629	DIGGA SERIAL TAG	1

Safety - Decal & Serial Tag Locations



Before Use

The key feature of your Digga Brush Cutter is low maintenance, however it has user serviceable parts. When servicing your product remember to use only genuine Digga replacement parts. Use of non-genuine Digga parts will void warranty and Digga will accept no liability what so ever for consequential damages or personal injuries as a result thereof.



DANGER

Safety first!! Read and understand the safety instructions before beginning any maintenance.

Before First Use

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

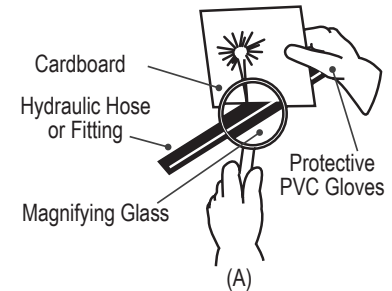
Before Each Use

- 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 "Safety - Decal Locations" on page 22).
- Check the lift limit chain and shackles for damage or defects.
- Check for wear and tear on pins, linkages, cutting edges and replace any damaged parts and excessively worn parts.
- Use only manufacturer recommended replacement parts. Other parts may be substandard in fit and quality.
- Ensure any damage or excessively worn parts are replaced.

- Always wear safety goggles or glasses when inspecting equipment.
- Ensure chains are in good working condition and that tie wires and binding chains are intact and secure. Never remove chains from Brush Cutter.

WARNING

Escaping fluid under pressure as low as 100 PSI can have sufficient force to penetrate the skin up to 4" (100mm) away 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 (A). Keep unprotected body parts, such as face, eyes, and arms as far away as possible from a suspected leak and use heavy duty PVC protective gloves. Flesh injected with hydraulic fluid may develop gangrene or other permanent disabilities.



WARNING

Always wear the correct PPE, when operating or performing maintenance on this attachment. If a hydraulic fluid injection injury occurs, seek emergency medical attention immediately. Explain to medical staff that the injury is the result of pressurized fluid injection. Remember that even if the point of entry appears as a minor pin hole, this potentially could be a major injury, especially if not treated in time.

Commissioning Procedure

The Digga Brush Cutter 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 host machine operator's manual for information regarding machine operation before attempting to use the Brush Cutter. When a Brush Cutter is purchased from DIGGA or a DIGGA Dealer/Distributor, the frame/attachment is matched for suitability and compatibility to the flow, pressures and load ratings of the original machine it was purchased for. For fitment of the Brush Cutter to other machines you must first contact your DIGGA dealer and receive written confirmation to ensure you do not incorrectly fit the attachment to a machine with higher pressure, or lower rated load capacities than what the product was designed for. Warranty will be void if the Brush Cutter is fitted to an alternative machine without first receiving written confirmation from your DIGGA dealer. Exceeding the recommended maximum flow, pressure, or rated load capacity of the Brush Cutter 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. Overhead cables, underground utilities, services, etc. Check with relevant service providers on the location of these before commencement of any work (see "Know where utilities are" on page 9). Review the job at hand and determine the Brush Cutter is appropriate for the intended conditions.

The Digga Brush Cutter receives its power from the parent machine through the auxiliary valve circuit with quick release couplers normally located on the machine arm near the front. Connect the hoses on the attachment to auxiliary hydraulic supply. Engine must be shut off and the system hydraulic pressure must be released before connecting the hydraulic hoses.

Operating Parameters - HP (kW) Power Ratings

The hydraulic motor of your Brush Cutter has a maximum power rating. Maximum pressure and flow cannot be achieved at the same time. Ensure you know and understand the maximum flow, pressure and power ratings of your Brush Cutter and parent machine. Never exceed the maximum ratings listed on the serial tag attached to the right hand side of the attachment.

Commissioning Procedure

Installation instructions

1. Remove the shipping banding from around the Brush Cutter and Frame.
2. Remove any attachments from the front of the machine.
3. Ensure you have read the serial tag on the Brush Cutter to obtain the maximum flow and pressure ratings. Ensure your machine flow and pressure settings are aligned with the requirements of the Brush Cutter.

NOTE

Never exceed the maximum 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, mount the Brush Cutter 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. Install the Lift Limiting Chain to the front of your loader with very little slack. Ensure the chain will not contact the rotating blades. The chain must limit attachment lift height at the rear to less than 12" (300 mm) to reduce the risk of serious injury or death from flying debris (See Figure 1 on page 29).
7. Relieve any pressure from the auxiliary hydraulic system and after making sure that there is no foreign matter on the hydraulic couplers, connect the supply and return couplers to the auxiliary hydraulic system of your machine. Then attach the case drain to the skid steer.
8. Route the hoses in such a fashion as to avoid pinching or chafing.
9. Carefully raise the machine arm/boom and cycle the tilt cylinders to check hose clearance and any interference.

Operating Instructions

General information

The Digga Brush Cutter is perfect for cutting tall grass and brush. The Brush Cutter attaches to the toolbar/quick attach mechanism for your loader. Due to this arrangement, thorough knowledge of the loader control is necessary for machine operation. Read and understand your loader's operator's manual before attempting to use the Brush Cutter.



Safety first!! Read and understand the safety instructions before beginning any cutting operation. Failure to obey the following procedure could result in death or serious injury.

Operating Tips

To assure optimum motor life, run hydraulic motor under no load for 5 to 10 minutes on approx. 1/3 RPM before each operation.

Increase the life of your bidirectional blades by cutting brush in one direction and cutting grass and smaller vegetation in another (this will keep the blades sharp for cutting grass).

If your preferred direction of blade rotation is not set up correctly for your loader "default", the hoses may be reversed at the loader end.



Rotating blade hazard. Always maintain safe distance as loose objects can be discharged!



Check the work area. Never operate the cutter in populated areas where thrown objects could injure persons or damage property.

Operating Instructions

Safe operating range

- When mounted onto a loader, do not operate the brush cutter with the back of the attachment over 12" above the ground.(Figure 1)
- Never lift the front of the brush cutter more than 20" (500mm) off the ground whilst blades are spinning or to a height where visibility is obstructed, whichever is lower. (Figure 2 & 3)
- Do not raise the Brush Cutter in a vertical position whilst the blades are spinning.
- The Brush Cutter is not designed to be used as a hedge trimming tool.

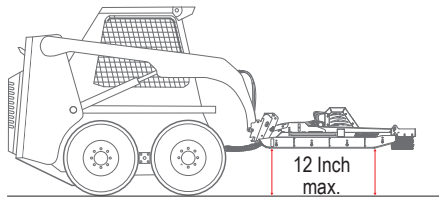


Figure 1

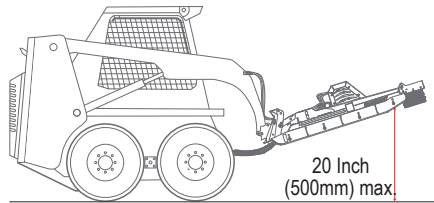


Figure 2

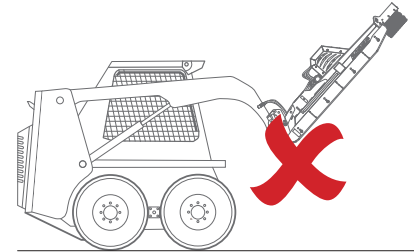


Figure 3



CAUTION

Never drive your loader with the front of the Brush Cutter to the point that your view is obstructed. Always make sure that you can see what you are cutting.

Operating Instructions

Cutting operation

Note

Before operating the attachment perform the routine maintenance mentioned under the section 'Before Each Use' on page 24.

1. Inspect the cutting area for obstructions such as stumps, wire, rocks, electrical lines, debris, holes, pipe lines, etc. Remove obstructions from the cutting area that might be picked up and thrown.
2. Confirm the bystanders are at least a minimum safe distance of 200ft (61m) from the equipment.
3. Start the engine. Ensure that the auxiliary hydraulic valve to power the Brush Cutter is disengaged and that the engine is at idle.
4. Engage the auxiliary hydraulic valve. Ensure that the blade is rotating in the desired direction. Increase the flow to achieve the desired cutting speed.
5. Ensure you comply with all safety procedures and then proceed to cutting the brushes.



DANGER

Never raise the Brush Cutter and expose yourself or anyone else to the rotating blades. If you can see the blades, then the back of the unit is raised too high.



DANGER

Never operate without lift limit chain installed. Never modify the lift limit chain. To reduce the risk of injury or death check that it is operating properly when you first use a machine, after service, or anytime someone may have disconnected the lift limit chain.

Cutting large brush

1. When cutting large brush, tilt the front of the Brush Cutter up few inches.
2. Slowly drive into the bush and use the tilt function of the loader to bend/push the brush over. As the brush bends the blades will cut it off.
3. The brush can now be mulched by driving the loader forward several feet and then reversing back, hence mulching any brush which may not have been mulched on the forward movement.
4. Repeat if necessary.



Always check that the chain curtain is in good working conditions. Never remove the chains from the Brush Cutter. Failure to obey these instructions could result in severe injury.

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. Disconnect the lift limit chain from the loader.
4. 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 Brush Cutter outside will materially shorten its life.

Operating Instructions

When attachments are not on the parent machine

It is a requirement of the Occupational Safety & Health Administration body (OSHA), that safe systems of work are employed when handling any attachment. Complete compliance with OSHA issues are 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 minimize any movement or loss of the load during such activity. Always fasten the pallet to the trailer or truck floor so as to prevent the pallet moving with the Brush cutter attached. **NO responsibility for loss or damage to persons or property in any regard can be attributed to Digga.**

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 vehicle. Disconnect hydraulic couplers during transportation.

Note

Refer to Safety Precautions - General Information on Page 15 for detailed explanation about transporting a Brush Cutter.



DANGER

If the Brush Cutter is to be lifted onto a vehicle, use the lugs provided on the unit. The lugs can also be used as lashing / tie-down anchor points. (See diagram on page 34)

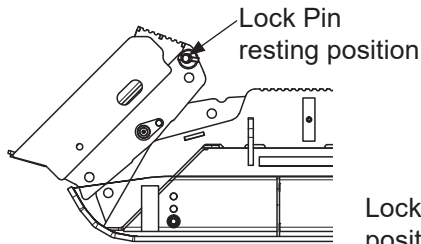
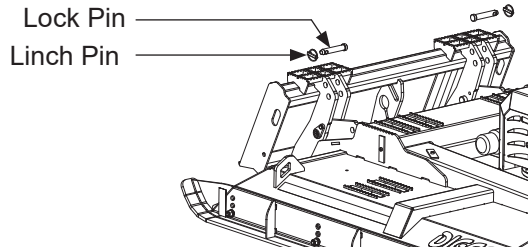
Operating Instructions

Floating/Rigid Mount:

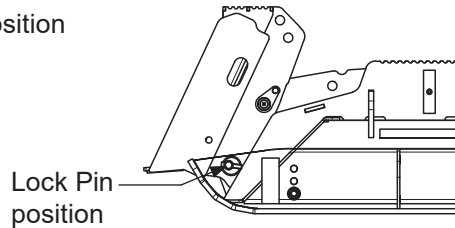
The Digga Brush Cutter is equipped with a universal mount that can be pinned into either a rigid or floating position depending on the type of work that is being carried out.

There are 3 positions: **Floating**, **Pickup Crowded Backward**, and **Pickup Crowded Forward**.

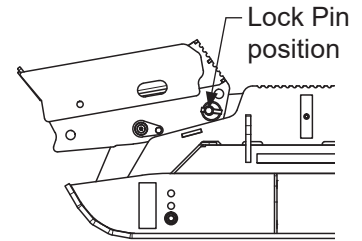
In order to switch from one to the other, remove both linch pins, and lock pins shown below, tilt the skid steer mount forwards or backwards until the holes line up with the desired position, and reinstall the pins in the locations shown in the illustrations shown below.



Floating position



Pickup Crowded Backward

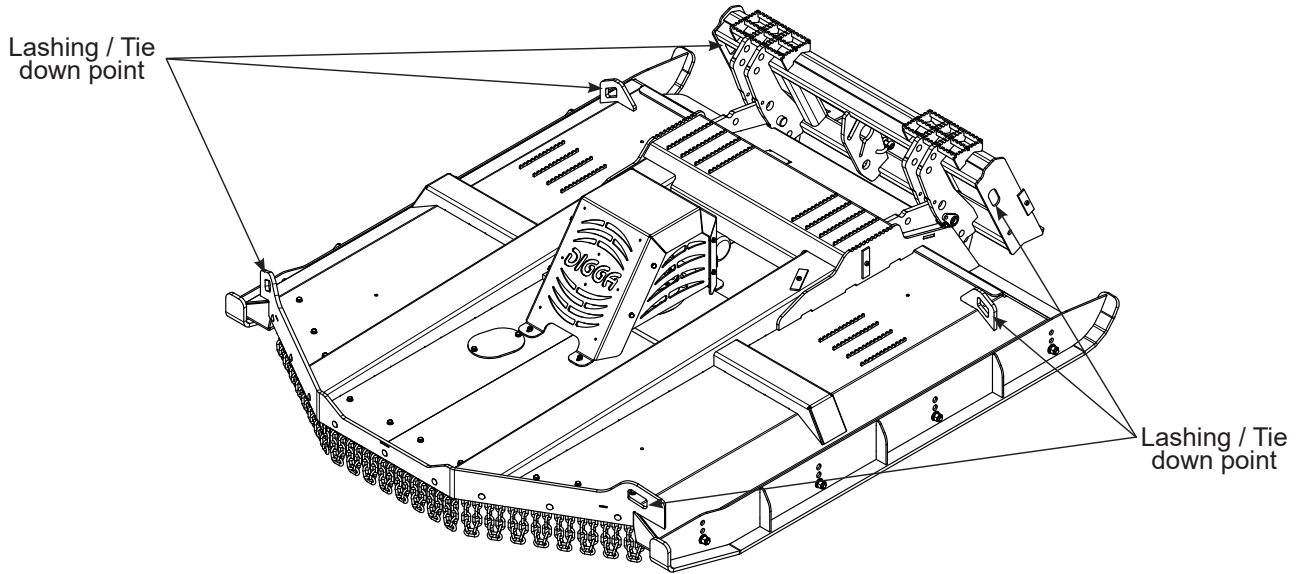


Pickup Crowded Forward

Operating Instructions

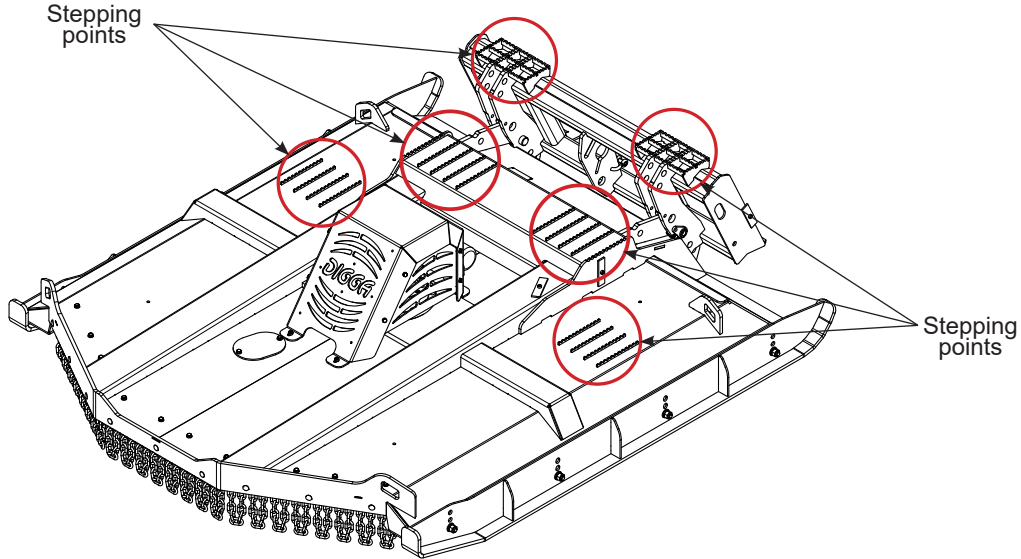
Lashing or Tie down points

Tie down points are identified by tie down decals where required. Securing to trailer at other points is unsafe and can damage attachment.



Stepping points

Designated anti-slip stepping points, shown below, are provided on the cutter deck and frame to safely access the skid-steer loader cab.

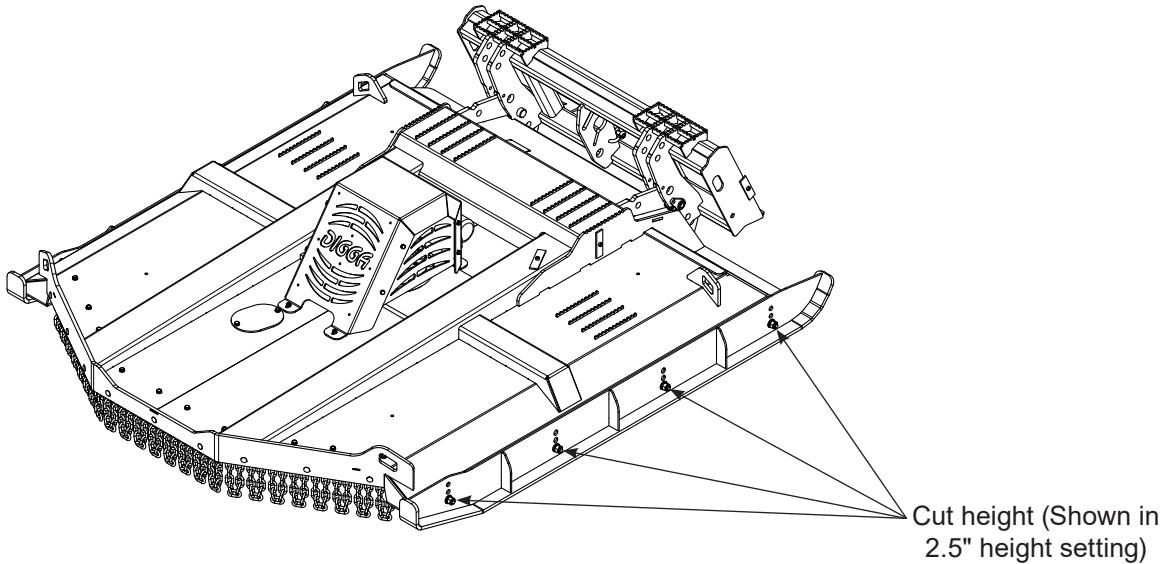


Operating Instructions

Cut Height Settings

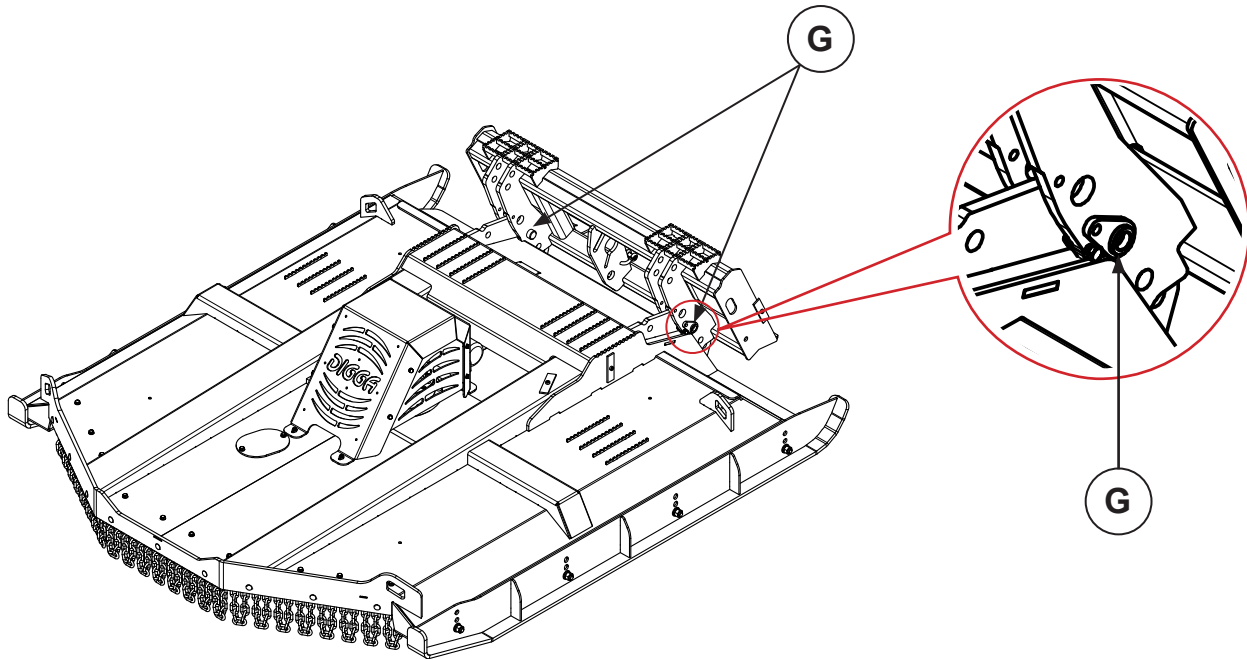
There are 3 cut height settings provided on both sides:

- 2.5"
- 3.75"
- 5.0"



Greasing

Lubricate all greasing points (G) with multi-purpose grease before use and every 40 hours, or more frequently as needed based on work conditions. There are two greasing points located at the pivot points on the frame, as shown below.



Maintenance

Oil change

The bearing housing oil capacity is engraved onto the serial tag of the Brush Cutter. The oil change for Brush Cutter bearing housing must be carried out every 12 months.

TYPE	SLASHER MODEL	OIL TYPE	OIL QTY	OIL CHANGE
Brush Cutter	SL-001110 - 72" BRUSH CUTTER - STANDARD - 17 TO 20 GPM - MULTIFIT	ISO EP 320 OR EQUIVALENTS LIKE SAE 90 OR SAE 80W - 90	1 Quart (950 ml)	Every 12 months
	SL-001111 - 72" BRUSH CUTTER - STANDARD - 21 TO 26 GPM - MULTIFIT			
	SL-001112 - 72" BRUSH CUTTER - STANDARD - 27 TO 34 GPM - MULTIFIT			
	SL-001113 - 72" BRUSH CUTTER - STANDARD - 35 TO 46 GPM - MULTIFIT			

NOTE

For all Brush Cutter, inspection and oil changes are recommended to be carried out by an Authorised Service Agent. However if that is not possible, please refer to "Oil change procedure" on page 39.

Oil change procedure

To inspect and replace gearbox oil is recommended to be done by a Digga Authorised Service Agent. If this is not possible follow the below steps with safety first in mind.

Following tools are required to carry out this procedure:

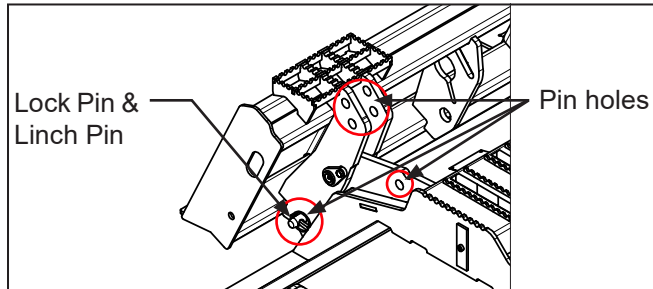
- A container to catch the drained oil from the gearbox. (Minimum 1 litre capacity)
- 1/4" Allen key.
- 9/16" Socket to remove the motor cover bolts.
- 1/2" Socket to remove the bolts on the operators manual tube.

Procedure:

1. Ensure that the Brush Cutter is securely attached to the host machine and that the locking pins are correctly locked to the Brush Cutter attachment.
2. Ensure that the hydraulic pressure is relieved from the host machine before disconnecting the quick release hose couplers(QRC) from the machine.
3. Either connect the QRC to each other or place dust covers on them to prevent dirt from entering the hydraulic system.
4. Ensure that the lift arms of the host machine are resting on the lower bump stops and the skids of the Brush Cutter are either resting on the ground or sitting on stable chocks.
5. Proceed to remove the 3 x 5/16" UNC bolts that fasten the operators manual tube to the motor cover using a 1/2" socket.
6. Remove the 4 x 3/8" nyloc nuts that fasten the motor cover to the cutter deck using a 9/16" socket.
7. The motor cover should then lift directly off the cutter deck, exposing the hydraulic motor.

Maintenance

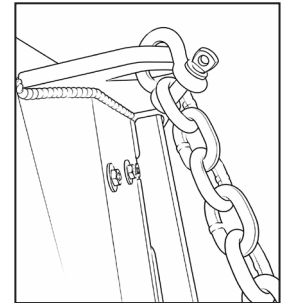
8. Remove the two lower pins on the both sides of the rear pickup weldment (see illustration below). They are secured in place with linch pins.



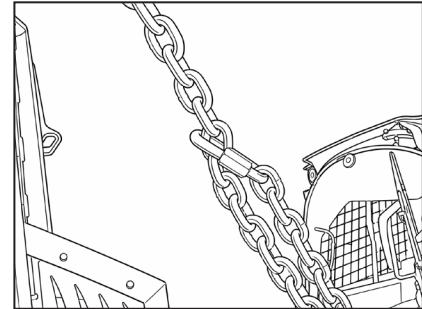
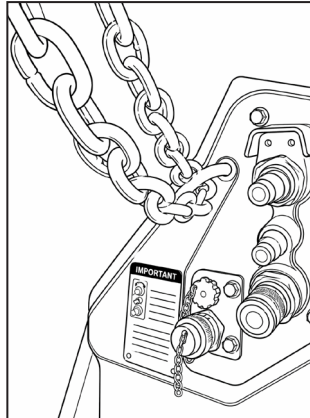
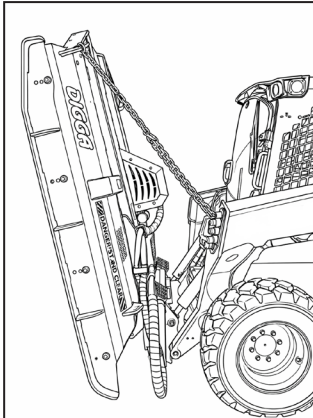
DANGER

Do not insert fingers into any pin holes at any time. The pick-up assembly may pivot up or down unexpectedly when the pin is not installed, creating a serious pinch point risk that could result in injury.

9. Crowd the pickup forward and insert the pins and linch pins in the upper holes in the pickup frame that align with the holes in the cutter deck brackets. This will allow the attachment to be lifted vertically (See illustration above).
10. Remove the D-shackle, the lift-limit chain and the oval quick link from the rear of the Brush Cutter frame.
11. Connect the one end of the lift limit chain with D-Shackle, to the lashing point at the front LHS of the Brush Cutter (See illustration on the right).



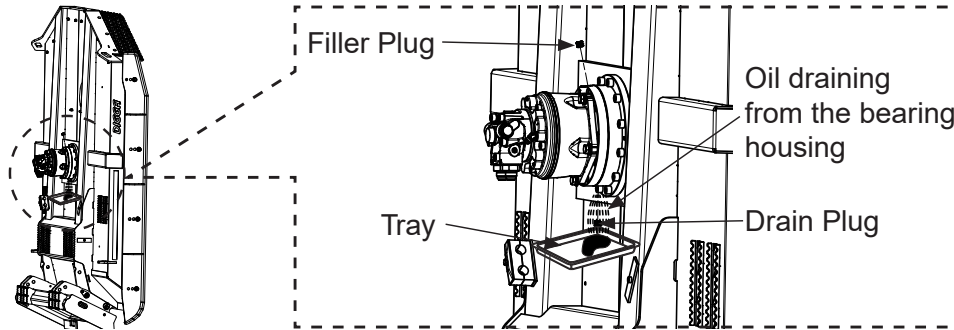
- The Brush Cutter can now be tilted upright in a vertical position in preparation to drain the oil from the bearing housing.
- When the Brush Cutter is in a vertical position and **prior to commencing any further work**, lift the free-end of the lift-limit chain and thread the other end of the chain through a welded loop or anchor point on the front of the host machine. Take up all chain slack so that the chain is safely tethered to support the Brush Cutter when fastening the quick link to the chain at the loader. The chain is approximately 7 ft. in length so should suffice for use on most available skid steer loaders. This chain can now safely support the Brush Cutter in an unlikely situation if hydraulic pressure in the SSL was ever lost (See the illustrations below).



- First remove the SAE O-Ring filler plug, which is now facing vertically upward (It requires a 1/4" allen key). This will remove any possibility of an airlock when the drain plug (now facing downward) is removed from the bearing housing.

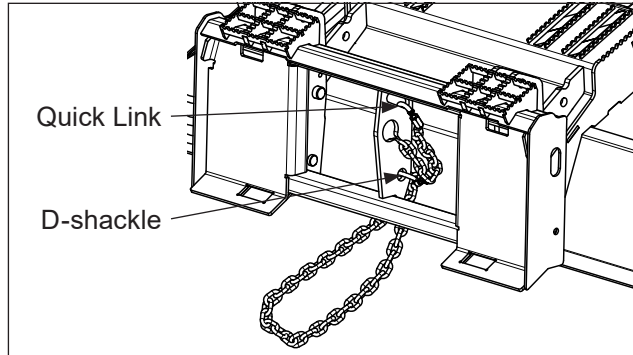
Maintenance

15. Ensure that you have a container available and ready to catch the quart of gear oil when the SAE O-Ring drain plug is removed (See illustration below).



16. Using the 1/4" Allen key, remove the drain plug and drain the gear oil.
17. Check the condition of the drained gear oil for contamination. If there are any traces of iron filings, it is advisable to flush out the bearing housing using a transmission fluid flush before installing clean gear oil.
18. If the Brush Cutter requires blade replacement during this exercise, see section covering this on page 44.
19. To decant clean gear oil into the bearing housing, install the SAE O-Ring drain plug into the bearing housing.
20. Pour 1 quart (950ml) of ISO320 EP gear oil into the filler port of the bearing housing.
21. Install the SAE O-Ring filler plug.
22. Disconnect the quick link and safety chain from the anchor point on the Skid-steer loader.
23. Start the loader and lower the brush cutter to the ground or rest the Brush Cutter on stable chocked supports.
24. Disconnect the D-Shackle and safety chain from the front lashing bracket on the Brush Cutter.

25. Remove the top lynch pins and pins, tilt the frame up and insert the pins and lynch pins into the lower holes on the cutterdeck bracket.
26. Connect the chain end and D-Shackle to the lower hole on the centre plate of the frame (See the illustration below).

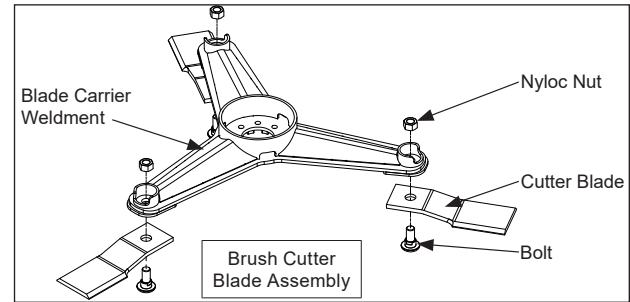
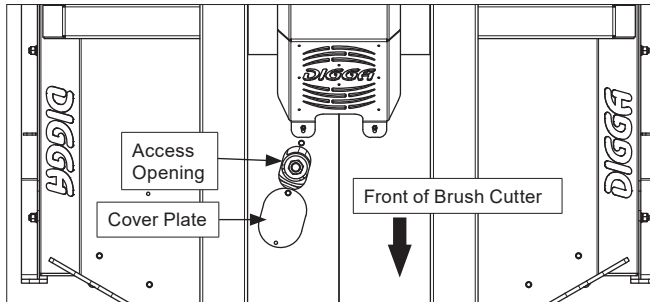


27. Thread the opposite end of the lift limit chain through the anchor point on the skid steer loader and connect the quick link to the upper slot of the frame. Cleat any excess chain into the tear drop slot so as to limit the ability to lift of the rear of the Brush Cutter to any higher than 12" off the ground.
28. Proceed to replace the cover over the hydraulic motor using the 4 x 3/8" nyloc nuts that were removed in point 6 (Page 39). Fasten the motor cover to the cutter deck using a 9/16" socket.
29. Oil changing procedure is done. Check for any leaks before operating the Brush cutter.
30. Replace the operator's manual tube using the 3 x 5/16" UNC bolts and 1/2" socket.

Maintenance

Replacing the blades on the Brush Cutter

1. Tools required an 1-5/8" (42mm) impact socket and extension and 3/4" drive pneumatic impact wrench.
2. Ensure that the Brush Cutter is resting on firm ground or stable chocks.
3. Ensure that the hydraulic hoses are disconnected from the host machine.
4. On the top surface of the cutterdeck, there is a cover plate to allow access to the cutter blades. Loosen one of the two 3/8" x 3/4" long UNC bolts and remove the other and allow the cover to swivel out of the way for access to the nut on the bar blade below.
5. There are 3 Brush Cutter Blades mounted on a triangulated blade carrier weldment. Rotate the blade carrier until the 1-1/8" UNF nyloc nuts (which fasten the blade to the blade carrier or mulcher disc), are visible and accessible through the access opening (see the diagram below).



NOTE

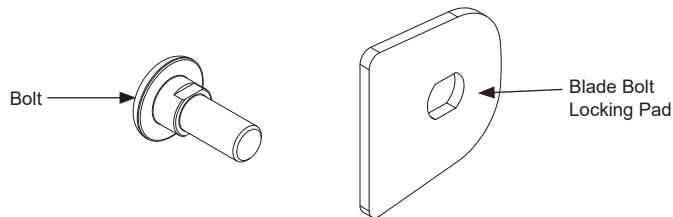
Ensure that your feet are well out of harms way and the blade cannot drop on them. The blade weights approximately 20 lbs./9kgs.

6. Place a wooden sheet on the ground to catch the blade when it comes off.
7. Attach the 1-5/8" (42mm) impact socket and extension to the nut and remove the nut.
8. If the blade replacement is to be performed by one person, it is recommended to use a small trolley jack to lift and hold the blade and bolt in place whilst the nyloc nut is being fitted.

NOTE

Ensure that the locating flats on the bolt coincide with the flats on the blade bolt locking pad in order to engage with the hole (See illustration below). This will stop the bolt from rotating when the new nyloc nut is installed.

9. Install the new blade, bolt and nyloc nut using red Loctite 263. Ensure that the bolts and nyloc nuts have clean dry threads. Torque the nut to 575lbf-ft (780 Nm) as a wet application. Repeat point 5 for all 3 blade replacements.



Technical Specifications

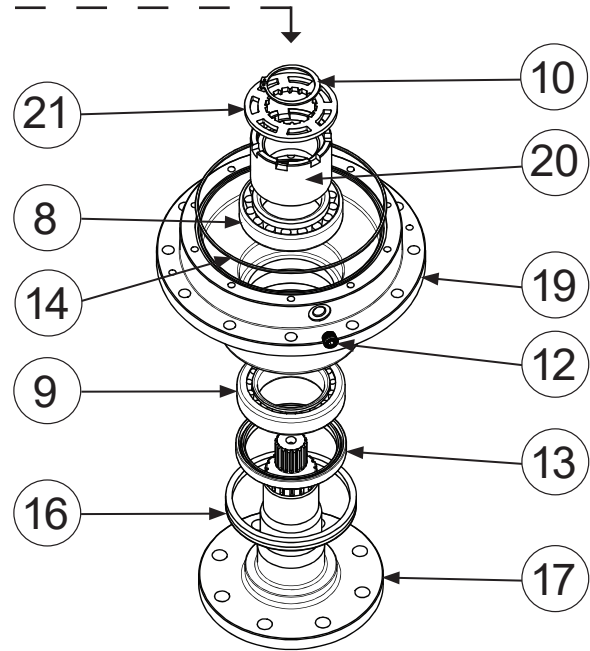
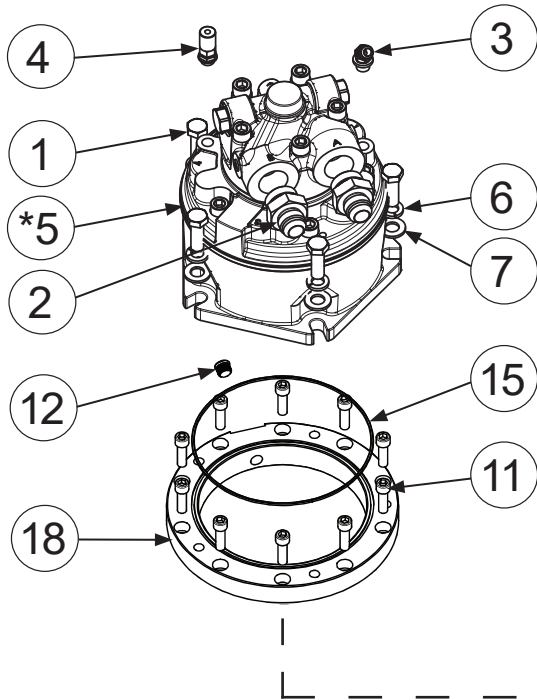
BRUSH CUTTER				
FEATURES	SL-001110	SL-001111	SL-001112	SL-001113
Overall Depth (Inch)	97.5"			
Overall Width (Inch)	80"			
Overall Height (Inch)	24" to 27"			
Mass (lbs)	1630lbs to 1680lbs			
Width of cut (mm)	72"			
Hydraulic Motor Size (cc)	75cc	100cc	130cc	175cc
Gearbox Oil Qty in Quarts (ml)	1 Quarts (950ml)			
Type Of Gearbox Oil (recommended)	ISO EP 320 OR EQUIVALENTS LIKE SAE 90 OR SAE 80W - 90			
Max Operating Pressure (psi)	3770psi			
Hydraulic Fluid Flow Recommended (gpm)	15 - 20	21 - 26	27 - 34	35 - 46

Technical Specifications

BRUSH CUTTER SPEEDS												
BRUSH CUTTER MODE	SAI FS MOTORS	MOTOR DISPLACEMENT		MAX. MOTOR SPEED	MIN. FLOW	MAX. FLOW	RPM @ FLOW		72" TIP SPEED@ MIN FLOW		72" TIP SPEED@ MAX. FLOW	
		CC/REV	IN ³ /REV.	RPM	GPM	GPM	MIN. RPM	MAX. RPM	FT./MIN	M/MIN	FT./MIN	M/MIN
SL-001110	FS15	75	4.7	1500	17	20	836	983	15741	4727	18519	5561
SL-001111	FS15	100	6.13	1100	21	26	791	980	14909	4477	18459	5543
SL-001112	FS15	130	7.87	1100	27	34	793	998	14931	4484	18802	5646
SL-001113	FS30	175	10.49	1100	35	46	771	1013	14521	4361	19084	5731

Spare Parts

Brush Cutter Motor Bearing Housing:



***NOTE :** Item 5, Digga Part numbers for the hydraulic motor varies according to the model.

Spare Parts

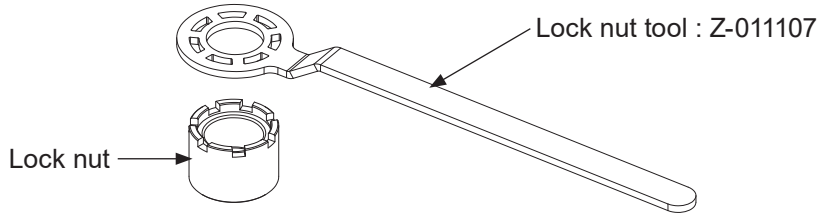
ITEM	PART NUMBER	DESCRIPTION	QTY
1	FA-000179	Motor Bolt Hex	5
2	HA-000030	Nipple	2
3	HA-002869	Elbow 45	1
4	HA-002978	Relief Valve	1
*5	MO-000732	Hydraulic Motor for SL-001110	1
	MO-000736	Hydraulic Motor for SL-001111	
	MO-000733	Hydraulic Motor for SL-001112	
	MO-000737	Hydraulic Motor for SL-001113	
6	WA-000010	Spring Washer Motor	5
7	WA-000054	Heavy Duty Washer Motor	5
8	BE-000127	Top Roller Bearing Tapered	1
9	BE-000128	Bottom Roller Bearing Tapered	1
10	CI-000072	Circlip	1
11	FA-001706	Screw Socket Head Cap	10
12	PP-000016	SAE O-Ring Plug	2
13	SE-000003	Output Shaft Seal	1
14	SE-000013	Bottom O-Ring	1
15	SE-000234	Top O-Ring	1
16	SE-000242	V-Ring Seal	1
17	SL-000921	Brush Cutter Flanged shaft	1
18	SL-000922	Input Housing	1
19	SL-000923	Output Housing	1
20	SL-000924	Locknut - Heavy Duty	1
21	SL-000925	Locking Washer	1

Spare Parts

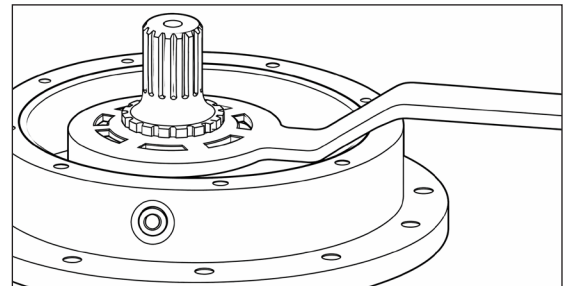
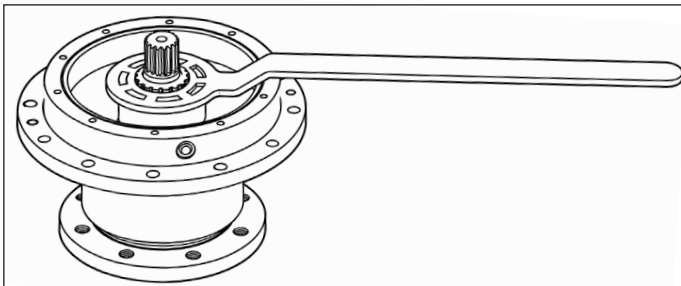
Lock nut tool:

NOTE

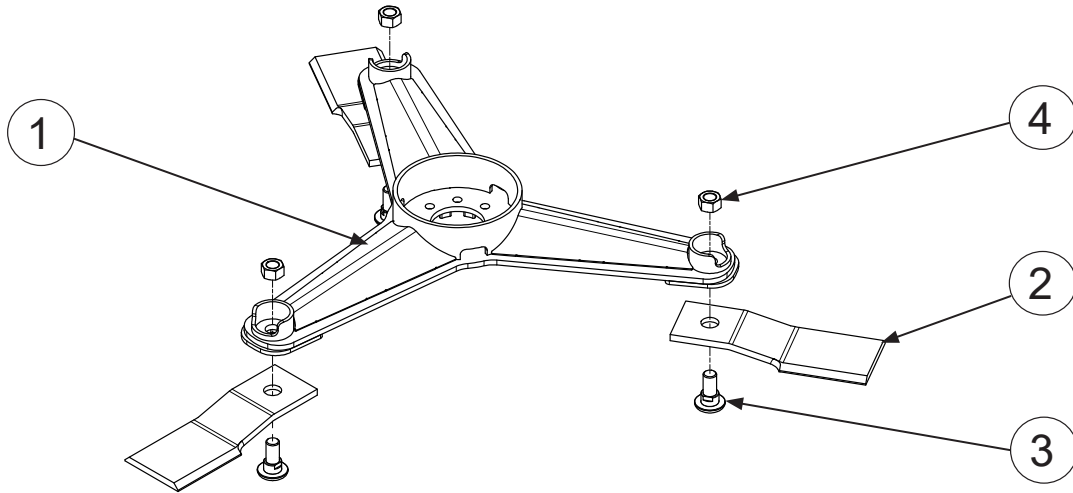
During assembly and disassembly of the bearing housing, a dedicated tool is recommended for loosening and tightening the locknut. This tool can be purchased from Digga under part number Z-011107.



Using the tool on the shaft retaining lock nut:



Blade Assembly:



ITEM	PART NUMBER	DESCRIPTION	QTY
1	SL-000931	72" Brush Cutter - Standard Blade Carrier Weldment	1
2	SL-000939	Brush Cutter Blade	3
3	SL-000987	Brush Cutter - Standard Blade Cutting Bolt	3
4	FA-000233	Nut Nyloc	3

Troubleshooting

TROUBLE	POSSIBLE CAUSE	REMEDY
Cutting Blades Stalling	Debris around the blades	Remove Debris/Ensure that safety chain/wire is not broken causing blade entanglement.
	Going too fast through thick/long material	Adjust Travelling/RPM Speed OR make smaller passes.
	Cutting Blade Blunt	Check, sharpen or replace as required.
	Cutting Blades Bent/Damaged	Check and Replace.
Loss of Hydraulic oil	Motor Output Seal	Inspect for any hydraulic oil leaks, repair as necessary, replenish lost oil.
	Loose hydraulic connections on motor	
	A faulty or worn hydraulic motor output shaft seal can cause hydraulic oil to contaminate, flood the bearing housing oil and in some instances may cause the bearing housing output shaft seal to dislodge.	Replace hydraulic motor output shaft seal. Drain contaminated gear oil. Replace new gear oil into bearing housing.
Loss of Direct drive bearing housing oil	Debris have damaged the bearing housing output shaft seal or a faulty/worn hydraulic motor output shaft seal can cause hydraulic oil to contaminate, flood the bearing housing oil and in some instances may cause the bearing housing output shaft seal to dislodge.	Inspect for any signs of gear oil leaks, repair as necessary, replenish lost oil.

Contact Information

For spare parts of your Brush Cutter, obtain the serial number from the aluminium serial tag attached to the right hand side of the attachment. The serial number allows Digga to trace all production and service records. Ensure all service and maintenance is performed by a competent service agent and all service records are kept. For further information on spare parts, please contact one of the Digga sales offices shown below, or contact your local authorised Digga dealer.

DIGGA INTERNATIONAL SALES OFFICES

ASIA PACIFIC

DIGGA HEAD OFFICE - BRISBANE

4 Octal St, Yatala QLD 4207
Phone: +61 7 3807 3330
Email: info@digga.com

DIGGA NEW SOUTH WALES

19 Mckay Close,
Wetherill Park, NSW 2164
Phone: 1300 2 DIGGA
Email: nsw@digga.com

DIGGA VICTORIA

17-21 Babbage Dr,
Dandenong, VIC 3175
Phone: 1300 2 DIGGA
Email: vic@digga.com

Web: www.digga.com

NORTH AMERICA

DIGGA NORTH AMERICA

2325 Industrial Parkway SW
Dyersville IA 52040
Phone: + 1 563 875 7915
Email: infous@digga.com

Web: www.diggausa.com

EUROPE

DIGGA EUROPE

Unit 1, Nexus Park
Plenty Close
Newbury, RG14 5RL
England, United Kingdom
Phone: +44 (0) 1488 688 550
Email: infouk@digga.com

Web: www.diggaeurope.com

Warranty Statement

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. Digga Australia Pty Ltd warrants its equipment for a period of twelve (12) months dating from delivery to the original user.

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 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 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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