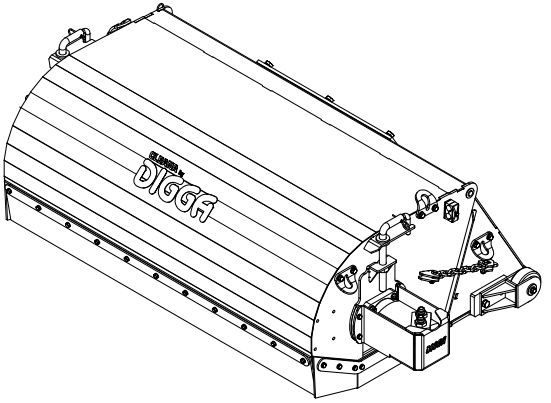
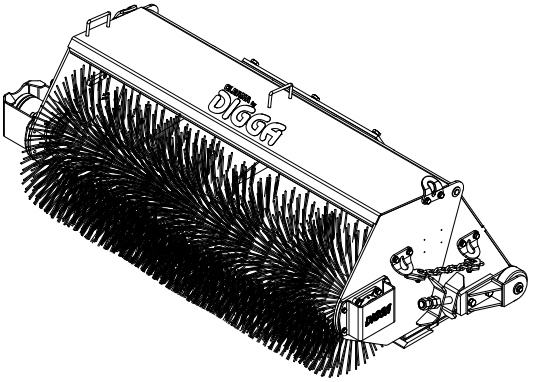
CLOSED AND OPEN BUCKET BROOM
OPERATOR'S MANUAL





DIGGA®

PM-000291

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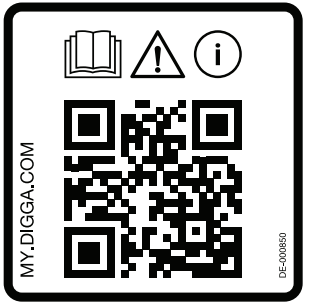

DECAL IS APPLIED TO THE ATTACHMENT

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DECAL TO BE APPLIED TO WINDOW OF MACHINE

ACCESS OPERATOR MANUALS RISK ASSESSMENTS AND MORE

Table of Contents

To the Purchaser

Thank you and congratulations on the purchase of your new Digga Bucket Broom.
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 Bucket Broom model provides important information about the product. Compare the model engraved on the serial plate to the list below.

MODELS COVERED IN THIS MANUAL			
CLOSED AND OPEN BUCKET BROOM			
BUCKET BROOM	**FLOW**	**NOMINAL WIDTH**	**OPEN OR CLOSED BUCKET**
BR-002399	STANDARD	1600 MM	CLOSED
BR-002400	HIGH		
BR-002411	STANDARD	1700 MM	CLOSED
BR-002412	HIGH		
BR-002423	STANDARD	1800 MM	CLOSED
BR-002424	HIGH		
BR-002436	STANDARD	2000 MM	CLOSED
BR-002437	HIGH		
BR-002452	STANDARD	2500 MM	CLOSED
BR-002453	HIGH		
BR-002464	HIGH	3000 MM	CLOSED
BR-002494	STANDARD	1600 MM	OPEN
BR-002495	HIGH		
BR-002509	STANDARD	1800 MM	OPEN
BR-002510	HIGH		

NOTE

Refer to the next page for additional model listings.

Product Identification

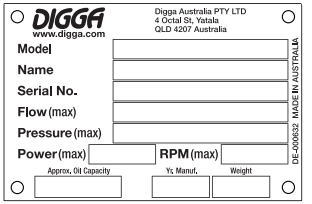
MODELS COVERED IN THIS MANUAL (CONTINUED)			
CLOSED AND OPEN BUCKET BROOM			
BUCKET BROOM	**FLOW**	**NOMINAL WIDTH**	**OPEN OR CLOSED BUCKET**
BR-002808	STANDARD	1600 MM	CLOSED
BR-002809	STANDARD	1700 MM	CLOSED
BR-002810	STANDARD	1800 MM	CLOSED
BR-002811	STANDARD	2000 MM	CLOSED
BR-002515	STANDARD	2000 MM	OPEN
BR-002516	HIGH		

NOTE

All models are available with two types of brush materials — Poly or Poly/Wire. Part numbers and specifications may vary depending on the brush type supplied.

Product Identification

Your Digga Bucket Broom has user serviceable part. 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.



DE-000632

Model: _____

Serial Number: _____

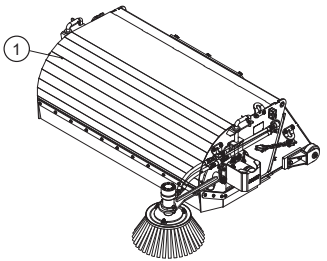
Purchase Date: _____

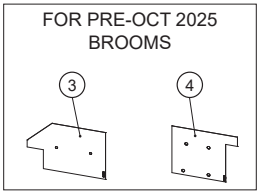
NOTE

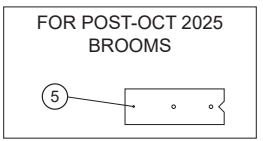
The parts department needs this information to ensure accurate parts can be sent to the authorized service agent.

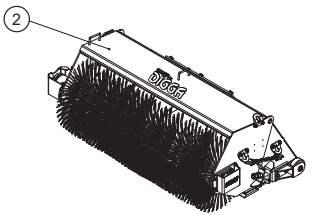
Preparation for use

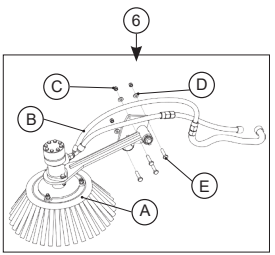
To avoid any inconvenience before operation, please check that you have received the following items which you may have ordered. Items may differ depending on type of machine the Bucket Broom is to be fitted to.

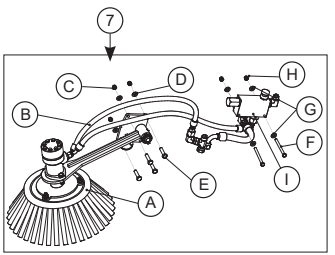












REF	DESCRIPTION	QTY
1	CLOSED BUCKET BROOM (WITH OPTIONAL SIDE BROOM)	1
2	OPEN BUCKET BROOM	1
3	DE-000327 DRILLING TEMPLATE - REGULATING VALVE	1
4	DE-000326 DRILLING TEMPLATE - SIDE-SWEEPER BROOM MOUNTING	1
5	DE-002354 DRILLING TEMPLATE - REGULATING VALVE	1
6	SIDE-SWEEPER BROOM ATTACHMENT - FOR STANDARD FLOW BUCKET BROOM	1
7	SIDE-SWEEPER BROOM ATTACHMENT - FOR HIGH FLOW BUCKET BROOM	1

REF	OPTIONAL SIDE-SWEEPER BROOM - STANDARD FLOW	QTY
A	SIDE-SWEEPER BROOM ATTACHMENT	1
B	HOSE KIT - STANDARD FLOW (REFER TO PAGE 8)	1
C	NUT NYLOC M10 CL8 ZINC PLATED	4
D	WASHER M10 ZINC PLATED	4
E	BOLT HEX M10 X 40 G8.8 ZINC PLATED	4

REF	OPTIONAL SIDE-SWEEPER BROOM - HIGH FLOW	QTY
A	SIDE-SWEEPER BROOM ATTACHMENT	1
B	HOSE KIT-HIGH FLOW (REFER TO PAGE 8)	1
C	NUT NYLOC M10 CL8 ZINC PLATED	4
D	WASHER M10 ZINC PLATED	4
E	BOLT HEX M10 X 40 G8.8 ZINC PLATED	4
F	BOLT HEX M8 X 90 G8.8 ZINC PLATED	2
G	WASHER M8 ZINC PLATED	4
H	NUT NYLOC CLS8 ZINC PLATED	2
I	PRESSURE COMPENSATED FLOW CONTROL VALVE	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

Operating the Bucket Broom

- 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 Bucket Broom from the parent machine before transporting to and from the job site.
- 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). Although, this is not applicable when using this attachment on a stand-on mini loader.

- Establish and maintain a minimum 15 meters (50 feet) 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.
- 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 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 Bucket Broom in a safe transport position to prevent the uncontrolled movement.
- Drive slowly over rough ground and on slopes.
- Tether the Side-sweeper Broom (if equipped) and any accessory connected to the Bucket Broom with a chain if necessary, to prevent uncontrolled swinging of the attachments.
- 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. Ground personnel and bystanders.
- Be alert to others in the work area. Be sure others know when and where you will be working.
- Loose fitting clothing, long hair, jewelery and equipment which might become entangled in moving equipment are prohibited while working near the Bucket Broom.
- Operators, helpers, and other personnel working near 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 Bucket Broom shall be cleaned only when the mechanism is in neutral and stopped; long-handled shovels shall be used to move debris from the Bucket Broom. Materials heavier than 10 kg must be moved mechanically or by using at least two people.

Safety Precautions - General Information

- The Bucket Broom 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.

DANGER

During Bucket Broom 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 50 feet (15 meters) away from the working area of the Bucket Broom.

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.

CAUTION

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

Storing your Bucket Broom

- Seal hydraulic couplers from contaminants and secure all hydraulic hoses off the ground to help prevent damage.
- Clean the unit thoroughly by removing all mud, dirt, grease, etc..
- Inspect for visible signs of wear, breakage, or damage. If required, order any damage 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.
- 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 Bucket Broom

- All maintenance should be performed with the engine 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.

Transporting the Bucket Broom

- 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.
- It is the responsibility of the operator to ensure that the attachment is firmly fastened without causing any damage to it. See lashing points on page 52.
- Attachment should be well secured, when being moved or in transit and furthermore prior to moving, storing, loading/unloading,or parking. See lifting points on page 52.
- 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 Precautions - General Information

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.

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.

End of Life Disposal

- At the completion of the useful life of the Bucket Broom, 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.

Complete a Risk Assessment

Your Digga Bucket Broom 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. (See warning on page 27)

- 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.

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

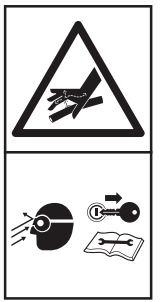
- Do not make any modifications to your Digga.
- When making repairs use only competent service agents familiar with this product and use only genuine Digga parts. For fasteners, hydraulic hoses, or hydraulic fittings, use only properly rated parts.
- Replacement parts must also have safety signs attached.

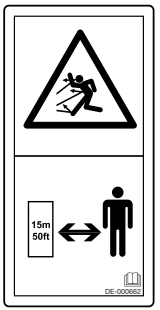
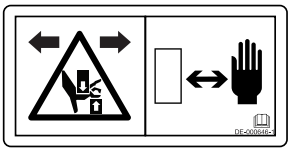
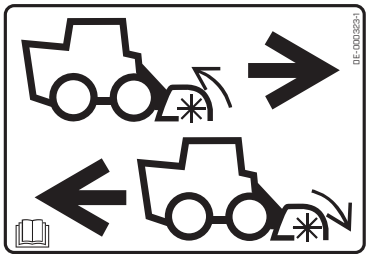
CAUTION

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

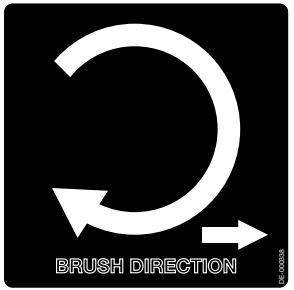
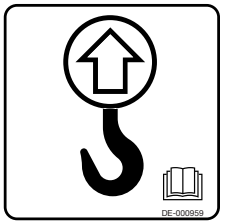
Safety - Decal Labels

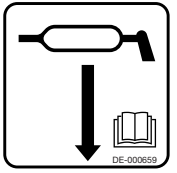
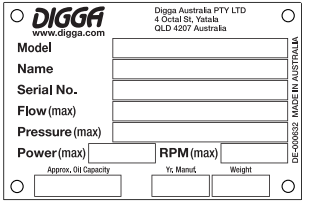
This section provides a glossary of safety labels found on your Digga Bucket Broom. These labels are important! Become familiar with both their meaning and location prior to operating the Bucket Broom. Ensure that each label is clean, visible, and legible at all times. To clean the decal, use a soft 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
		
DANGER **Completely read and understand this operator's manual before using your attachment. Keep the manual with the attachment at all times.**	**WARNING** **Do not allow persons to ride on the attachment. Do not ride on the attachment.**	**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 16.**

FLYING DEBRIS	PINCH POINT HAZARD	ROTATING BRUSH DIRECTION
		
WARNING **Objects can be thrown. Keep all bystanders at least 15m (50ft) from the equipment.**	**WARNING** **Keep hands and body parts a safe distance from actuating parts.**	**NOTE** **See page 36 for more details.** **Used on closed broom buckets only.**

Safety - Decal Labels

ROTATING BRUSH DIRECTION	LASHING POINT	LIFTING POINT
		
NOTE **See page 34 for more details.** **Used on open broom buckets only.**	**NOTE** **Use the lugs provided to lash the attachment.**	**NOTE** **Use the lugs provided to lift the attachment.**

GREASE POINT BELOW	MY.DIGGA.COM	SERIAL TAG
		
NOTE **This decal indicates the position of grease nipples. There might be more than one grease nipple in same direction indicated by the arrow. See "Greasing" on page 51.**	**NOTE** **Scan the QR-code to access:** **my.digga.com** **Find manuals, safety information, guides and more.**	**NOTE** **The serial tag contains important information about the product. Refer to "Product Identification" on page 7.**

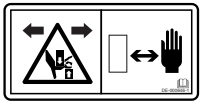
Safety - Decal Locations

Closed bucket broom:

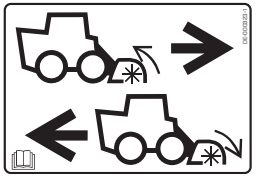
ITEM 1

ITEM 2

ITEM 3



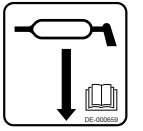
ITEM 4



ITEM 5

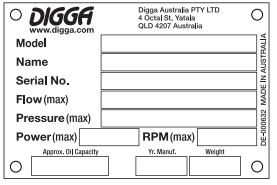
ITEM 6

ITEM 7



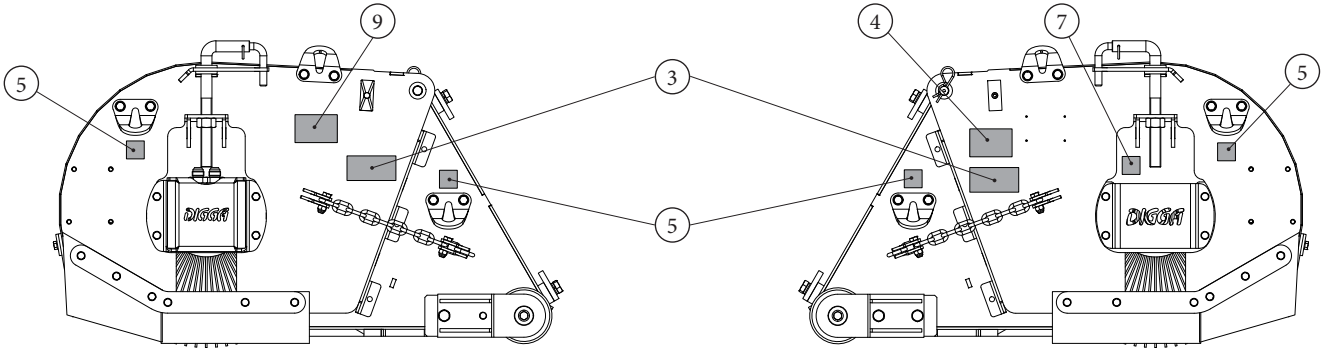
ITEM 8

ITEM 9



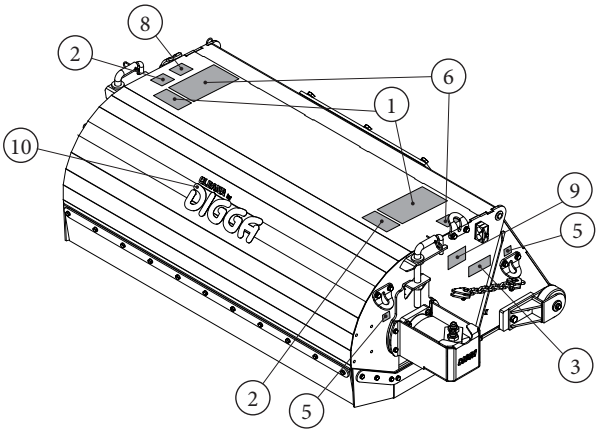
ITEM 10

CLEANA by DIGGA



LHS RHS

DKIT1070			
ITEM	**ORDER CODE**	**DESCRIPTION**	**QTY**
1	DE-000647	CAUTION - READ MANUAL / HYDRAULIC FLUID / RIDING ON ATTACHMENT	2
2	DE-000658	WARNING - FLYING DEBRIS ENSURE BYSTANDERS 15M	2
3	DE-000646-1	WARNING - PINCH POINT	2
4	DE-000323-1	BRUSH DIRECTION	1
5	DE-000954	TIE DOWN POINTS	4
6	DE-000959	LIFTING POINT	2
7	DE-000659	GREASE NIPPLES	1
8	DE-000850	MY DIGGA QR CODE	1
9	DE-000632	DIGGA SERIAL TAG	1
10	DE-000043	CLEANA BY DIGGA	1



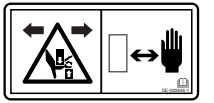
Safety - Decal Locations

Open bucket broom:

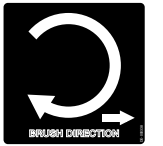
ITEM 1

ITEM 2

ITEM 3



ITEM 4



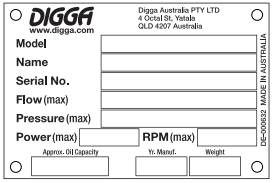
ITEM 5

ITEM 6

ITEM 7

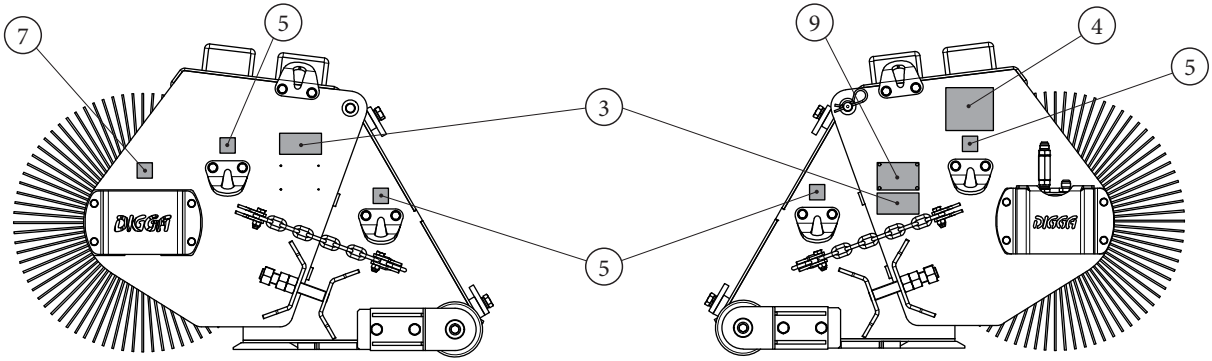
ITEM 8

ITEM 9



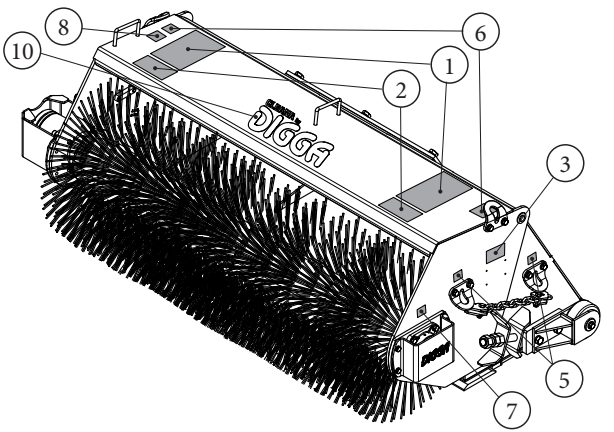
ITEM 10

CLEANA by DIGGA



LHS RHS

DKIT1072			
ITEM	**ORDER CODE**	**DESCRIPTION**	**QTY**
1	DE-000647	CAUTION - READ MANUAL / HYDRAULIC FLUID / RIDING ON ATTACHMENT	2
2	DE-000658	WARNING - FLYING DEBRIS ENSURE BYSTANDERS 15M	2
3	DE-000646-1	WARNING - PINCH POINT	2
4	DE-000338	BRUSH DIRECTION	1
5	DE-000954	TIE DOWN POINTS	4
6	DE-000959	LIFTING POINT	2
7	DE-000659	GREASE NIPPLES	1
8	DE-000850	MY DIGGA QR CODE	1
9	DE-000632	DIGGA SERIAL TAG	1
10	DE-000043	CLEANA BY DIGGA	1



Before Use

The key feature of your Digga Bucket Broom is low maintenance. It contains 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 as a result thereof.

DANGER

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

Before First Use

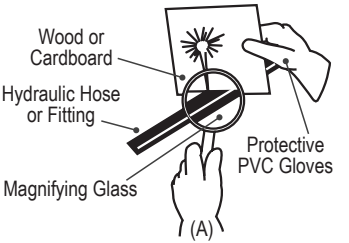
Inspect the Bucket Broom for shipping damage. If damage does exist, do not operate until the damaged parts have been replaced or repaired.

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 Labels" on page 18).
- 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.

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 Broom attaches to the tool bar/quick-attach mechanism of your Machine. Due to this arrangement, thorough knowledge of the machinery controls is necessary for machine operation. Read and understand your machine operator's manual for information regarding machine operation before attempting to use the Bucket Broom.

When a Bucket Broom 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 Bucket Broom 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 Bucket Broom 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 Bucket Broom 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 government departments on the location of these before commencement of any work. Review the job at hand and determine the Bucket Broom is appropriate for the intended conditions. For example: Do not use to collect rocks.

Operating Parameters - HP (KW) Power Ratings

The hydraulic motor of your Bucket Broom 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 Bucket Broom and parent machine. Never exceed the maximum ratings listed on the serial tag attached to the side of the hood.

Installation instructions

1. Remove the shipping banding from around the Bucket Broom and Frame.
2. Remove any attachments from the front of the Machine.

3. Ensure you have read the serial tag on the Bucket Broom to obtain the maximum flow and pressure ratings. Ensure your machine flow and pressure settings are aligned with the requirements of the Bucket Broom.

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, install the Bucket Broom onto your Machine.

NOTE

It is important to make sure the locking mechanism on your quick attach is engaged, therefore locking the attachment onto the machine.

5. Lower the unit to the ground and remove the key from the parent machine.
6. Relieve any pressure from the auxiliary hydraulic system and after making sure that there is not any foreign matter on the hydraulic couplers, connect the supply and return couplers to the auxiliary hydraulic system of your machine.
7. Route the hoses in such a fashion as to avoid pinching or chafing.
8. Use the adjusting handles connected to the axle, located at each end of the broom, to adjust the brushes to the correct position for use. (See "Brush adjustment" on page 43) Your attachment is now ready for use.

Closed Bucket Broom with optional Side-sweeper Broom

There are two optional Side-sweeper Broom kits for the Closed Bucket Brooms. One kit is for the standard flow Closed Bucket Broom and the other is for the high flow Closed Bucket Broom. Both can be supplied either during the order of the bucket broom or at a later stage, as a retrofit kit. See pages 31 and 33 for part numbers and consult your Digga Dealer for availability.

Commissioning Procedure

Side-sweeper Broom installed at the factory

If the optional Side-sweeper broom attachment has been installed at the factory with your order for a new Bucket Broom, there is no need for any further installation providing the hydraulic flow of your machine is adequate for the Side-sweeper broom operation. See the table below:

	MINIMUM	MAXIMUM
HYDRAULIC FLOW	60 LPM	75 LPM
SIDE-SWEEPER BROOM SPEED	300 RPM	375 RPM

- Standard Flow Closed Bucket Brooms are **not** equipped with a pressure-compensated flow control valve, therefore it is the responsibility of the end user to match the hydraulic flow of their hosting machine to the attachment's requirements. Consult your Digga Dealer for assistance.
- High Flow Closed Bucket Brooms are fitted with a pressure-compensated flow control valve which shall be adjusted to match the requirements shown in the table above. See page 33 for instructions on installation of the side-sweeper kit and adjusting the flow control valve.

WARNING

The speed of the Side-sweeper Broom must be set by a person other than the operator. When carrying out this procedure, extreme care must be taken due to the rotating brush.

DANGER

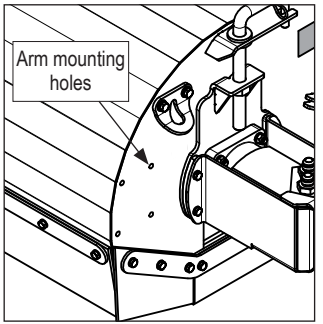
Do not operate or adjust the Side-sweeper Broom with the arm in the vertical position.

Your Side-sweeper Broom is now ready for use in sweeping areas such as curbs, alongside walls or ledges or where close access is restricted due to motor and cover protrusion.

Optional Side-sweeper Broom Retrofitting

Side-sweeper Broom Retrofitting Kit for Standard-Flow Closed Bucket Brooms

If the Side-sweeper Broom is supplied as a retrofit kit, please take the time to read these installation instructions so that the installation will be completed efficiently and safely. The following steps are required for retrofitting the Side-sweeper Broom attachment to your standard Digga Closed Bucket Broom:

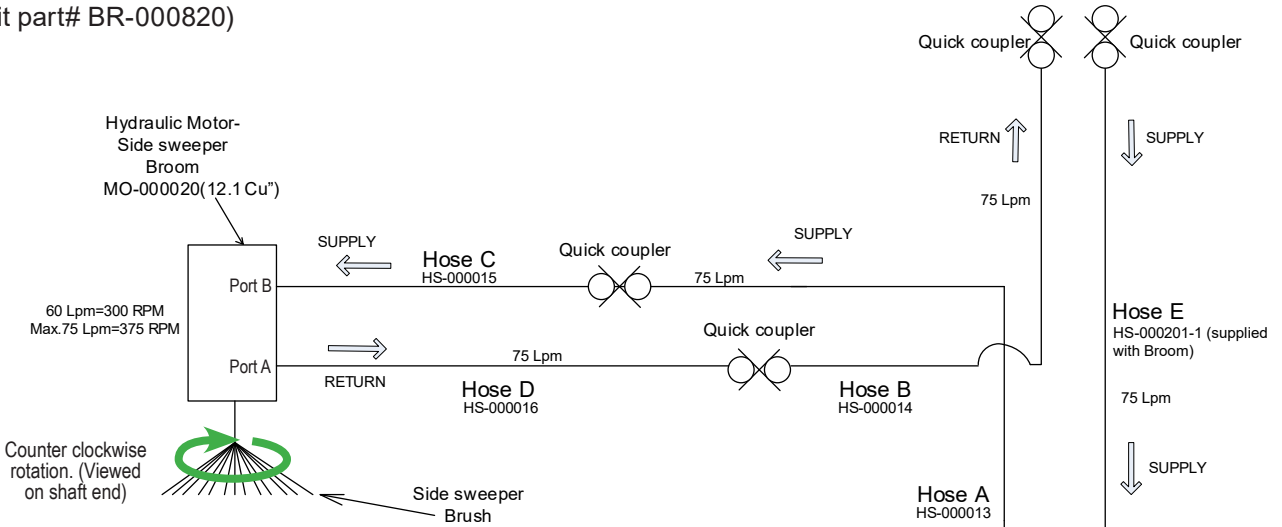


1. Installation of the Side-sweeper broom attachment is relatively easy as long as these instruction are carefully followed. There are nuts welded on the inside of the broom hood to receive the 4 x M10 x 40mm long bolts though the flange mount of the Side-sweeper broom.
2. Disconnect the original return hose running from the main hydraulic motor (Port A -see schematic on page 32) to the skid steer loader. This is one of the two original hoses (part no. HS-000201) supplied with the broom. The Side-sweeper broom is supplied with 4 new hoses which need to be installed. The supply hose (Hose E) connected to the port B on the main hydraulic motor does **not** need to be changed. Connect the Hose A to port A of the hydraulic motor. Hose A is a short hose and is to be connected to Hose C via a quick coupler. Hose C is to be connected to the upper positioned port on the hydraulic motor (Port B) of the Side-sweeper broom. Connect Hose D to the lower port (Port A) on the hydraulic motor of the Side-sweeper broom. Hose D connects to Hose B via a quick coupler. Then Hose B connects to the inlet quick coupler of the skid steer loader. Remember to pass both the supply Hose E and return Hose B through the hose clamp mounted on the left hand side of the broom as this is how the hoses were fastened from the factory.
3. Connect the hydraulic hoses to the skid steer loader, perform a stationary test on the Bucket Broom to check for any oil leaks. Ensure that all bystanders are standing at a minimum distance of 50 ft away from the attachment and that all necessary safety precautions are taken into account.

Optional Side-sweeper Broom Retrofitting

Schematic of Hydraulic Circuit for Standard-Flow Brooms

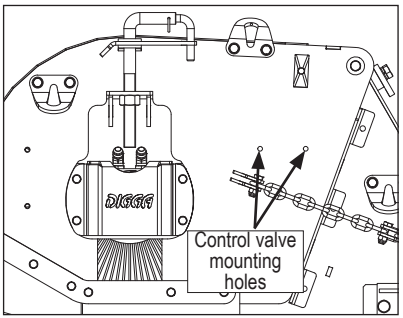
(Kit part# BR-000820)



DESCRIPTION	PART NUMBER
SIDE-SWEEPER HYDRAULIC MOTOR	MO-000020
MAIN HYDRAULIC MOTOR	MO-000557
HOSE A	HS-000013
HOSE B	HS-000014
HOSE C	HS-000015
HOSE D	HS-000016
HOSE E	HS-000201-1 (use the existing 2200mm long supplied with the cleana broom)

Side-sweeper Broom Retrofitting Kit for High-Flow Closed Bucket Brooms

1. The installation of the Side-sweeper broom attachment is relatively easy as long as these instruction are carefully followed. There will already be nuts welded on the inside of the broom hood to accommodate the 4 x M10 x 40mm long bolts though the flange mount of the Side-sweeper broom. Insert the 4 x M10 x 40mm long bolts through the 4 mounting holes in the LHS of the broom housing. See illustration on page 31.
2. Disconnect the two hydraulic hoses which connect to the high flow hydraulic motor of the Bucket Broom. This will free up space and allow better access when fitting the regulating valve.
3. To place the high flow regulator (flow control) valve, position the supplied drilling template (part number DE-002354) and proceed to mark and drill the 2 x Ø8.5mm holes in the LHS of the broom hood next to the main hydraulic motor. Affix the M8 flat washers and nyloc nuts on the inside of the hood, the broom will have to be lifted onto stands in order to gain access to the underside of the unit to hold the nuts whilst the bolts are installed from the outside of the unit. Please take heed of the below warning notice. It is for your own safety!



WARNING

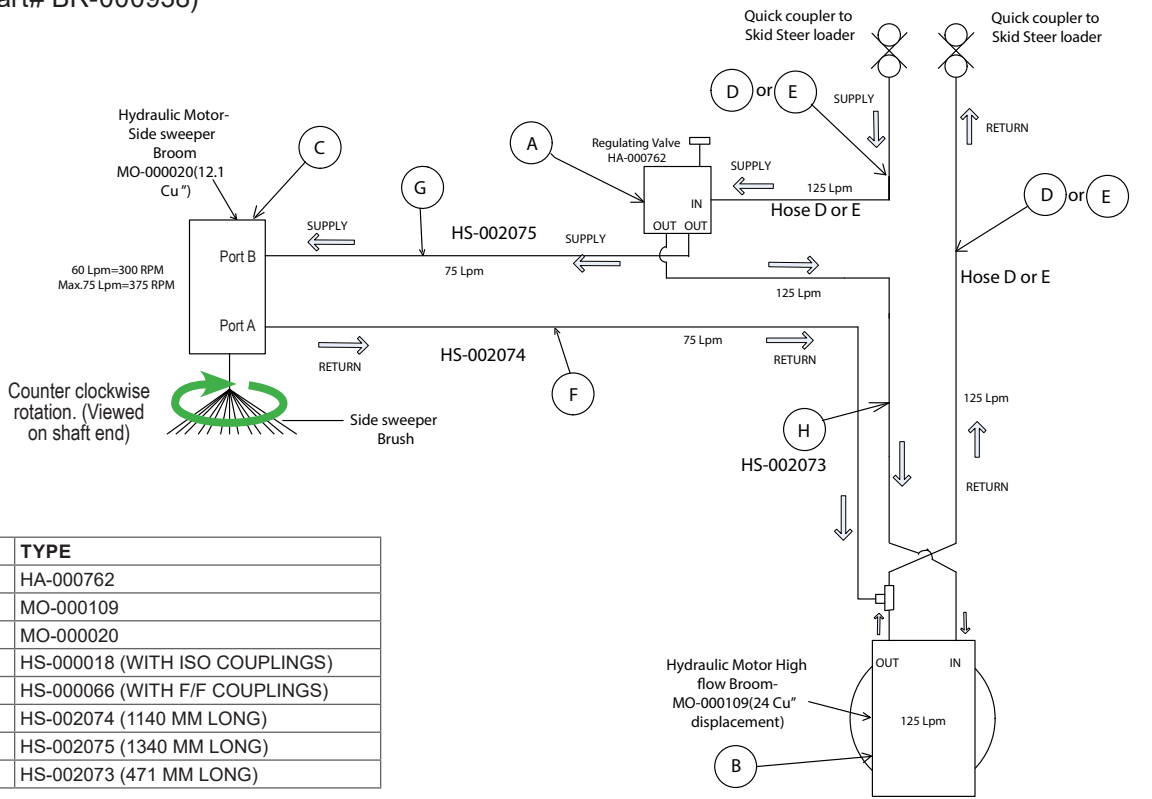
Do not attempt to work under the broom unless the broom is securely supported and the broom is stable and safe to work under. Do not rely on the Skid-Steer hydraulic pressure to support and hold the broom off the ground. The Bucket Broom must be resting on rigid supports.

4. Mount the flow control valve to the side plate of the broom using the 2 x M8 x 95 long mounting bolts, flat and spring washers and M8 Nyloc nuts.
5. Connect the 2 hoses to the motor of the Side-sweeper broom as shown in the schematic illustration on page 34. Install the tee fitting into the outlet port of the main broom motor and connect the hose. Proceed to

Optional Side-sweeper Broom Retrofitting

Schematic of Hydraulic Circuit for High-Flow Closed Bucket Brooms

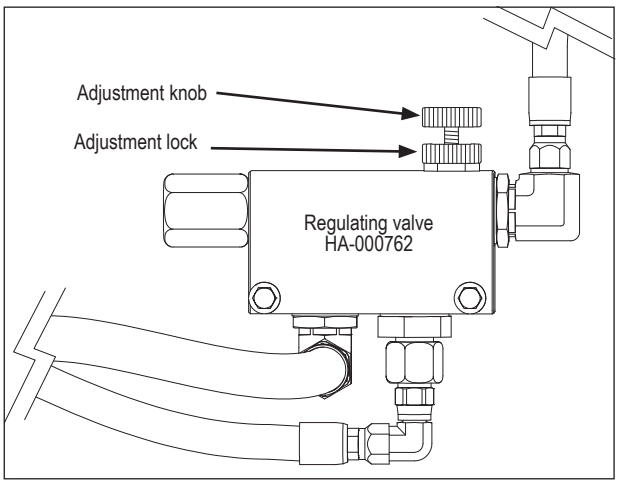
(Kit part# BR-000938)



ITEM	TYPE
A	HA-000762
B	MO-000109
C	MO-000020
D	HS-000018 (WITH ISO COUPLINGS)
E	HS-000066 (WITH F/F COUPLINGS)
F	HS-002074 (1140 MM LONG)
G	HS-002075 (1340 MM LONG)
H	HS-002073 (471 MM LONG)

connect all the hoses as per the schematic on page 34. Connect the supply and return hoses of the Side-sweeper Broom as per the schematic.

6. Connect the hydraulic hoses to the skid steer loader, remove the stands from under the Bucket Broom and perform a stationary test on the Bucket Broom to check for any oil leaks. Ensure that all bystanders are standing at a minimum distance of 50ft away from the attachment and that all necessary safety precautions are taken into account.
7. Set up the Side-sweeper broom to optimum brush speed and hydraulic flow.
8. Ensure that the flow through the regulating valve is set at approximately 60 LPM which will equate to the side broom rotating at approximately 300 RPM. Ensure that the maximum flow does not exceed 75 LPM which equates approximately 375 RPM of the Side-sweeper broom.
9. The flow control valve has a black plastic adjustment knob with locking ability on the top of the valve. It is not preset at the Digga Factory. It must be set by the Dealer or end user. See below:



NOTE

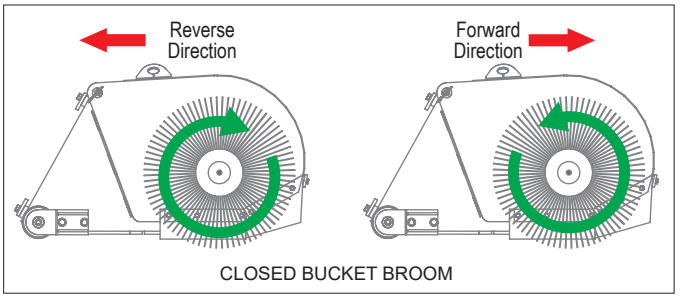
Due to Digga not knowing what high flow machine each Bucket Broom will be installed on, it is the responsibility of the dealer/ customer to ensure that the hydraulic flow regulating valve (mounted on the left hand side of the broom) is set to the specifications indicated above.

The rotational direction of the side sweeper brush is counter clockwise when viewed on the underside of the brush OR clockwise when viewed on the top of the motor.

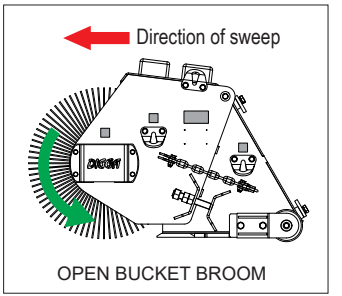
Operating Instructions

Bucket Broom Operation

1. Manoeuvre machine to required location for sweeping and lower the loader arms. Ensure the brushes are approximately 30mm below the bucket edge and tilt the broom forward until the bucket cutting edge is just clear of the ground.
2. Start brushes rotating in the required direction via the auxiliary lever and move forward or reverse depending on the type of sweeping required.
   - For closed bucket brooms, the brush should always rotate to sweep material in the same direction as travel.
   - For open face broom, it has a check valve to allow only correct rotation of the brush. The brush will rotate anti-clockwise moving in forward direction.



CLOSED BUCKET BROOM



OPEN BUCKET BROOM

NOTE

Always sweep at a high enough brush speed and low ground speed to effectively discharge the material being swept. Follow the rotation direction indicated above for forward and backward movements.

3. Operate the machine at medium RPM. If excessive dust is being raised, reduce brush speed via lower RPM's and travel slower.

Bucket broom operation with the side broom installed

1. The optional side broom attachment has either been installed and configured at the factory with your Bucket Broom or comes as a retrofit kit that can be installed by a competent person with some modifications to the bucket broom.
2. There are two optional side sweeper kits for Bucket Brooms. One kit is for the standard flow Bucket Broom and the other is for the high flow Bucket Broom. The two kits are different hence carry different part numbers:
   - The standard flow kit – part number BR-000820 can be installed, but cannot be configured at the factory as no pressure compensated flow control valve is provided on this kit. It is the responsibility of the end user to ensure that the hydraulic flow to the side sweeper broom maintains a recommended continuous flow of 60 litres per minute which equates to a side broom rotational speed of 300 rpm and does not operate at a higher flow rate than 75 litres per minute which will equate to a side broom rotational speed of 375 rpm.
   - The high flow kit – part number BR-000938 is configured at the factory to handle a continuous hydraulic flow rate of 60 litres per minute which equates to a side broom rotational speed of 300 rpm. The side sweeper motor will however handle a maximum continuous hydraulic flow of 75 litres per minute which will equate to a side broom rotational speed of 375 rpm. Flow to the side sweeper motor is controlled by the adjustment of the black knob on the pressure compensated flow control valve shown in the photo on page 35).

WARNING

The speed of the side broom has to be set by a person other than the operator, when carrying this procedure take extreame care due to the rotating parts.

Operating Instructions

NOTE

On the pressure compensated flow control valve, the black knob on the valve should not be adjusted with the side sweeper broom in the vertical position.

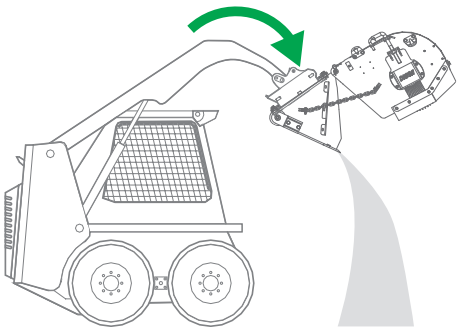
DANGER

Do not operate or adjust the Side-sweeper Broom with the arm in the vertical position.

Your side broom is now ready for use in sweeping area's such as kerbs, alongside walls or ledges or where close access is restricted due to motor and cover protrusion.

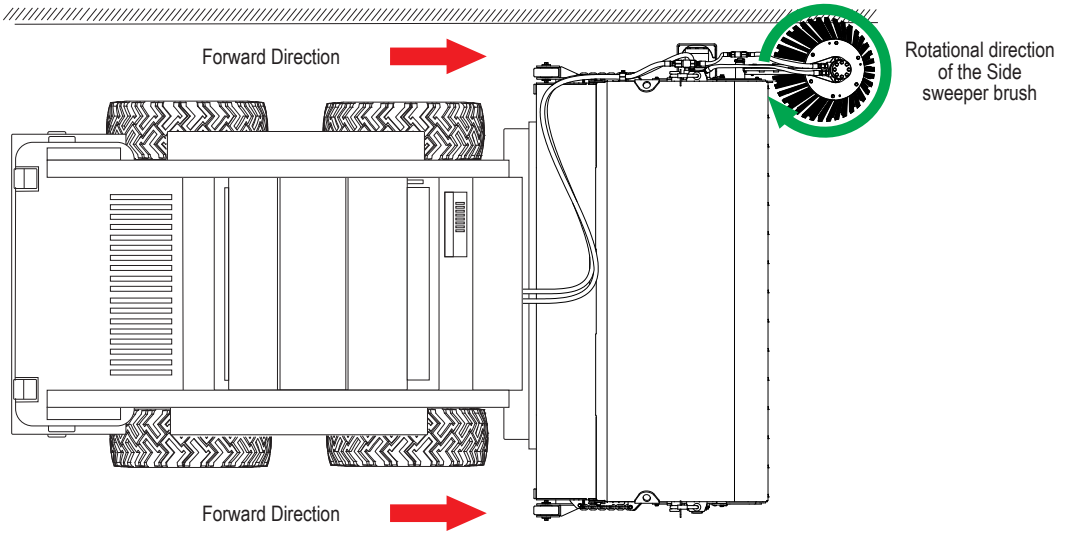
Emptying procedure

When the bucket requires emptying, stop rotation of the brush, lift loader arms and crowd the bucket forward so that the Bucket Broom hood swings away from the bucket.



Operating the Side Sweeper Brush

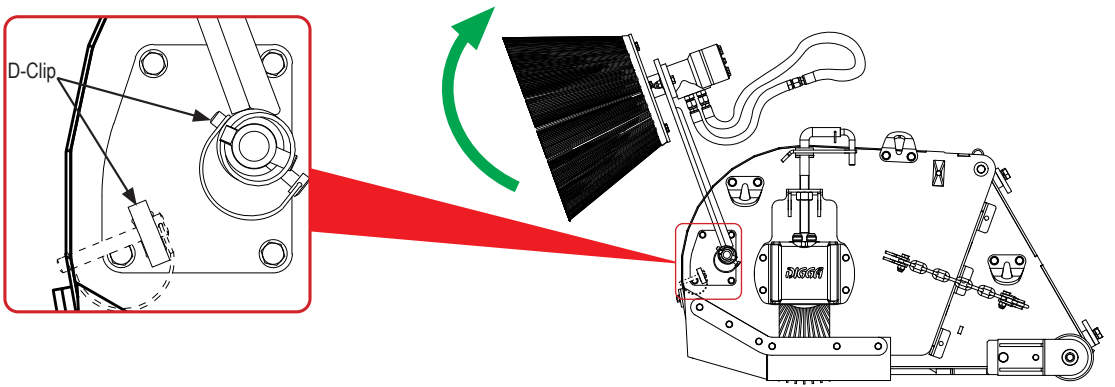
Use the gutter brush to reach areas such as kerbs, alongside walls, or ledges. When installed on the left-hand side of the Bucket Broom, the gutter brush shall rotate clockwise (viewed from the top) to sweep the debris to the front of the bucket broom. The forward movement of the broom will then collect the debris into the bucket.



Operating Instructions

Disabling the Side-sweeper Brush

When the Side-sweeper Brush is not in use, it is good practice to disable the Side-sweeper brush and store the arm in the upright position. To disable the Side-sweeper, bypass its hydraulic motor by disconnecting the 2 Quick Release Couplers (QRCs) and connecting the return Hose A from the motor to the Hose B to the Skid-steer loader. This will ensure that the skid steer hydraulic fluid powers only the broom hydraulic motor, while the Side-sweeper remains static.See the hydraulic schematics on page 31 and 33. To prevent debris from entering the Side-sweeper brush hydraulic lines, connect both the supply Hose C and return hose Hose D of the Side-sweeper hydraulic motor. Lift the Side-sweeper brush arm and lock it in place using the D-clip stored in a tab on the Side-sweeper brush mounting flange.



DANGER

Do not operate or adjust the Side-sweeper Brush with the arm in the vertical position.

When the attachment is not on the parent machine

It is a requirement that safe systems of work are employed when handling any attachments. Complete compliance with all 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 minimize 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.

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.

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. Start the machine's engine and make sure that the lift arm is lowered and in contact with the loader frame.
4. Roll the attachment mechanism forward and slowly back up until the attachment is free from the machine.
5. Remove and store the attachment in a dry and protected place. Leaving the Bucket Broom and Side-sweeper Broom attachment outside will materially shorten its life.

Maintaining the life of the brush

Brush Level

Brush life can decrease by 50% or more if you don't level your brush frequently. Brush level should be checked before operating.

Brush down-pressure

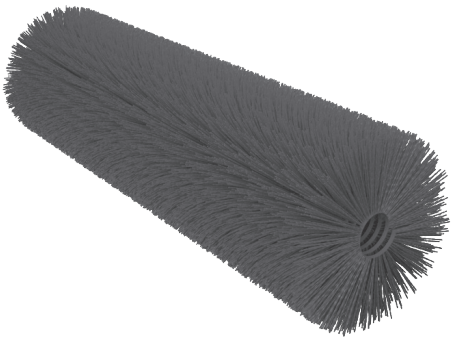
Improper down-pressure can decrease brush life by 95%. The tips of the bristles provide the most efficient sweep. When too much down-pressure is applied, the brush is working with the sides of the bristles, not the tips. This eliminates the natural flicking action of the tips and reduces sweeping effectiveness.

Check for correct down-pressure daily. Before starting a sweeping job, park your machine and Bucket Broom on a level area, lower the rotating brush down to the ground, and then lift. Check the cleaned area below the brush. A brush with correct down-pressure will clear a 25 to 75 mm path along the length of the brush.

Speed of vehicle when sweeping

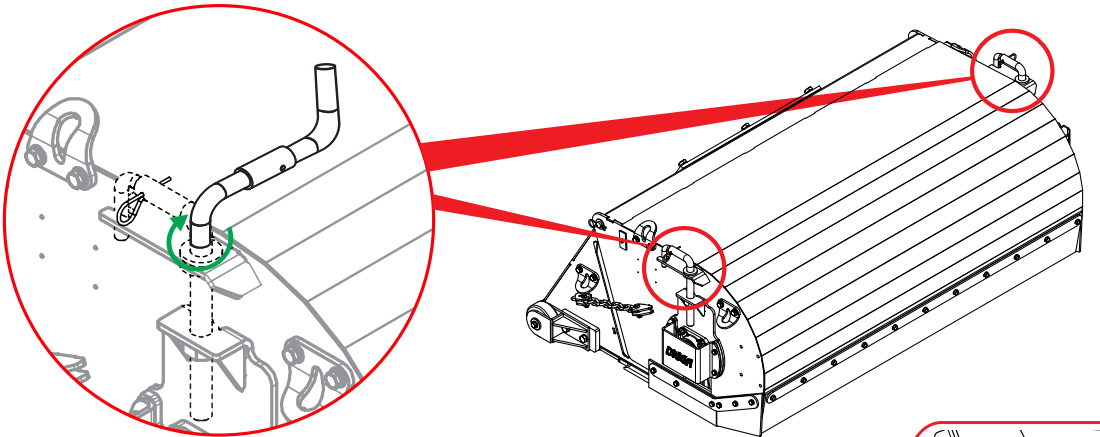
Improper ground speed not only damages the brush but can also damage sweeper components. If the ground speed is too fast, the debris piles up in front of the brush. Material is bulldozed rather than swept. Bulldozing causes excessive pressure on the brushes, core, drive lines, frame and can prematurely wear the rubber flaps on the sides and front of the Bucket Broom.

Always sweep at a high enough brush speed and low ground speed to effectively discharge the material being swept.

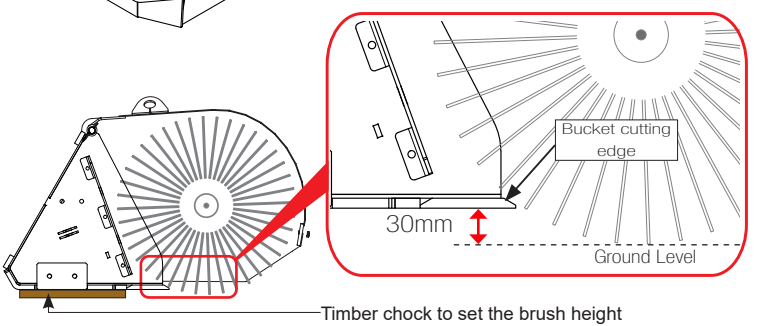


Brush adjustment for closed broom buckets

Remove the handle pin, twist the handle, and replace the pin. Re-adjust the axle to the correct height using both handle adjusters simultaneously. Return handles to their original position.



Set the height of the brush so the bottom of the brush is approximately 25 to 30mm lower than the bucket cutting edge. The brush must be level. A simple method of setting the brush height is to rest the broom on a 25mm - 30mm timber chock and then adjust the brush down until it just contacts the ground, along the entire brush length.



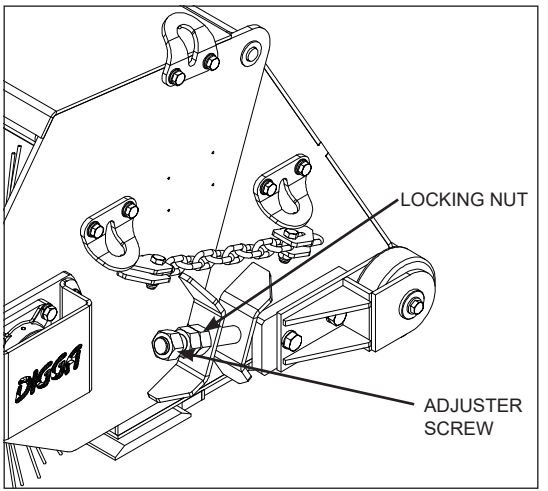
Maintenance

Brush adjustment for open broom buckets

1. Loosen the locking nut using a 38mm / 1 ½" spanner by turning anti clockwise. See figure below.
2. Adjust the height of the brush using a 38mm / 1 ½" spanner by turning anti clockwise to lower the brush height or by turning clockwise to raise the brush height.
3. Once desired height has been achieved tighten the locking nut using a 38mm / 1 ½" spanner by turning clockwise.

NOTE

Procedure needs to be carried out on both ends of the Open Face Broom



To replace brush of closed broom buckets

1. Following all standard safety practices and the instructions for removing an attachment in your machine operator's manual, remove and disconnect the Bucket Broom from your Machine.
2. Undo the bolts and remove the side retaining plates with rubber flaps (Fig 1), on both sides of the broom.
3. Using suitable lifting equipment lift the broom, via the lifting lugs, approximately 100mm above the ground.
4. Release the handle extension (Fig 2) and lock it upwards using the clip pin. Rotate the broom handle (Fig 3) to lower the poly brush until it drops down to the ground.

NOTE

Wind down both sides of the broom simultaneously to ensure that the brush slides out easily.

Fig 1

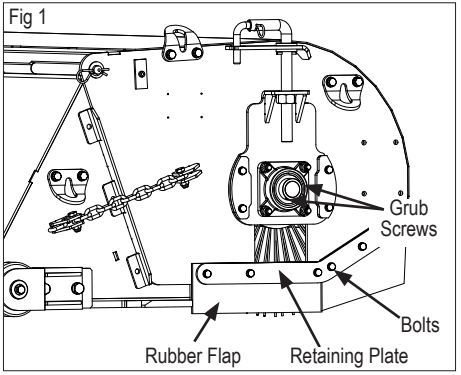


Fig 2

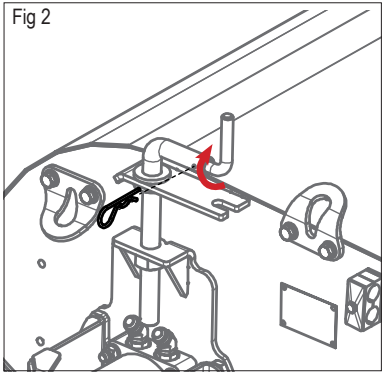
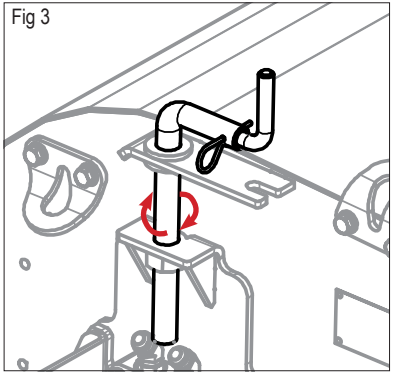
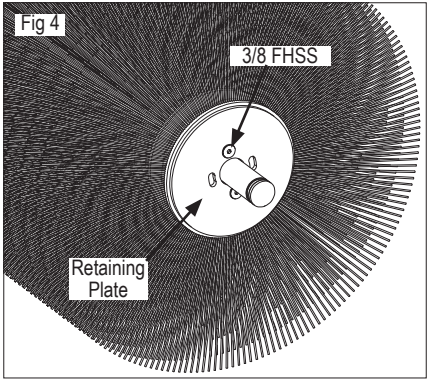


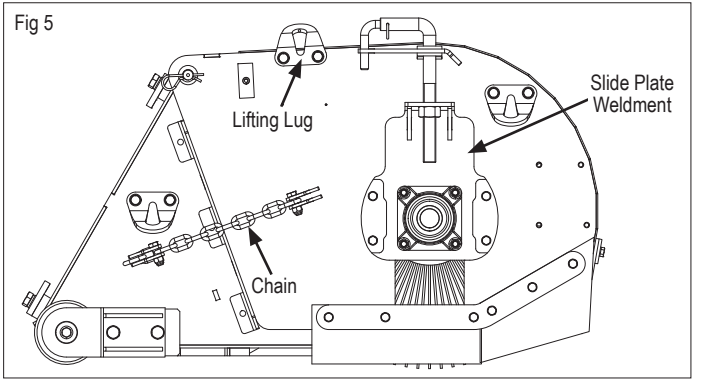
Fig 3



Maintenance

5. Using suitable lifting equipment lift the broom hood weldment, via the lifting lugs, leaving the brush remaining on the ground.
6. Lower the weldment to the ground in an area away from the brush to allow you to work on the brush.
7. Loosen the two grub screws which secure the bearing collar to the shaft (Fig 1).
8. Slide the bearing housing, with attached slide plate weldment (Fig 5), off the shaft.
9. Remove the two 3/8 inch flat head socket screws (FHSS) which secure the retaining plate to the shaft(Fig 4).
10. Slide the retaining plate and then the worn convoluted brush wafers off the bearing side of the shaft.
11. Replace the worn convoluted brush wafers. (Contact digga for the quantity of wafers required).
12. Reassemble all parts in the reverse order of above.
13. Readjust the axle to correct height using the adjusters. Set the height of the brush so the bottom of the brush is approximately 30mm lower than the bucket cutting edge. See "Brush adjustment" on page 43.





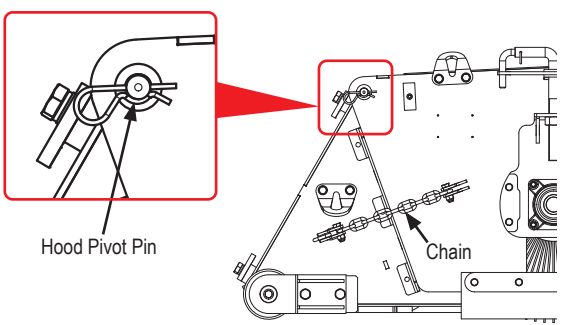
To replace brush of open broom buckets

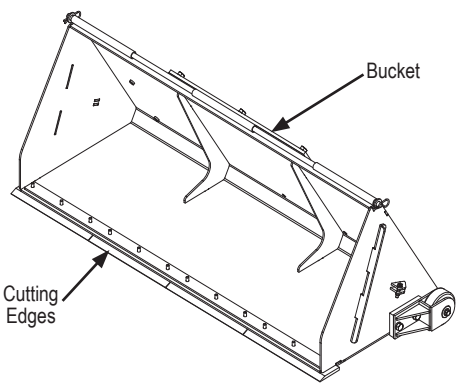
1. Following all standard safety practices and the instructions for removing an attachment in your machine operator's manual, remove and disconnect the Bucket Broom from your Machine.
2. Remove both the bearing guard and the motor guard from both the sides of the open bucket broom by unbolting the 4 x M10 x 20mm long hex bolts on both sides.
3. Loosen the 2 grub screws which secure the bearing collar to the brush shaft.
4. Disconnect the hydraulic hoses from the motor ports.
5. Carefully remove the motor assembly by unbolting the 4 socket head screws.
6. When you remove the motor assembly, the brush shaft will drop slightly on the motor end. Now you can easily slide off the brush assembly from the bearing assembly.
7. On one side of the brush assembly, you can see a retaining plate attached to the shaft using two 3/8 inch flat head socket screws (FHSS).
8. Remove the two 3/8 inch flat head socket screws which secure the retaining plate to the shaft.
9. Slide the retaining plate off the shaft.
10. Now you can easily replace the worn convoluted brush wafers.
11. After replacing the worn out brush, slide the retaining plate back into position.
12. Secure it with the two 3/8" FHSS screws.
13. Slide the brush assembly back into the bearing assembly.
14. Refit the motor assembly and secure with the 4 socket head screws.
15. Reconnect the hydraulic hoses to the motor ports.
16. Tighten the bearing collar grub screws.
17. Refit the bearing and motor guards using the M10 × 20 mm bolts.
18. The broom is now ready for operation with new brush wafers.

Maintenance

Replacing cutting edges

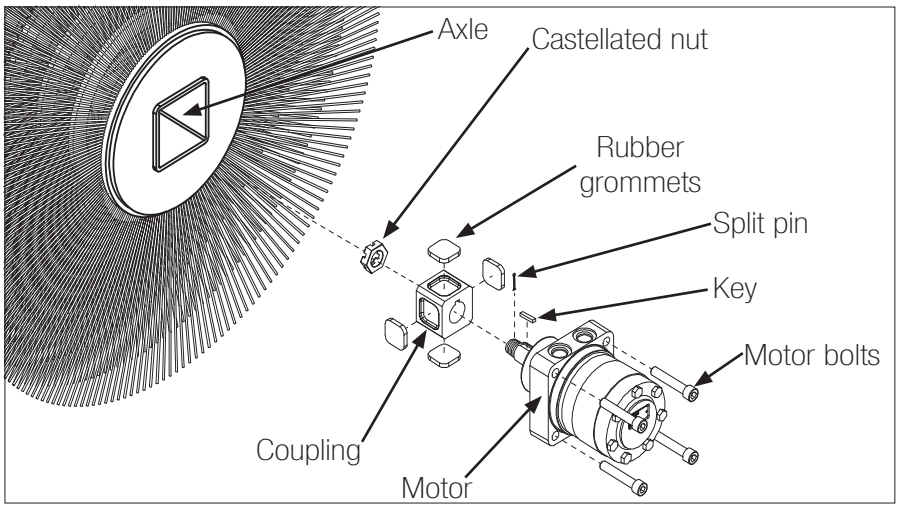
1. Following all standard safety practices and the instructions for removing an attachment in your machine operator's manual, remove and disconnect the Bucket Broom from your Machine.
2. Disconnect one side of the chain which runs between the hood and the bucket on either side of the broom. For open broom buckets also remove the locking nut and the adjusting screw used to adjust the brush heights.
3. Remove the hood pivot pin.
4. Using suitable lifting equipment lift the broom hood assembly, via the lifting lugs, leaving the bucket remaining on the ground.
5. Lower the hood assembly to the ground in an area away from the bucket to allow you to access the cutting edges.
6. Remove the flat head socket screws and nuts which secure the cutting edges to the bucket weldment.
7. Remove the cutting edge or, if suitable, rotate it end-for-end. In cases where the cutting edge has previously been rotated, dispose of it in compliance with proper disposal practices. If not re-using, all associated bolts and nuts must also be properly discarded too.
8. Reassemble all parts in the reverse order of above.





Replacing axle or drive couplings (standard-flow)

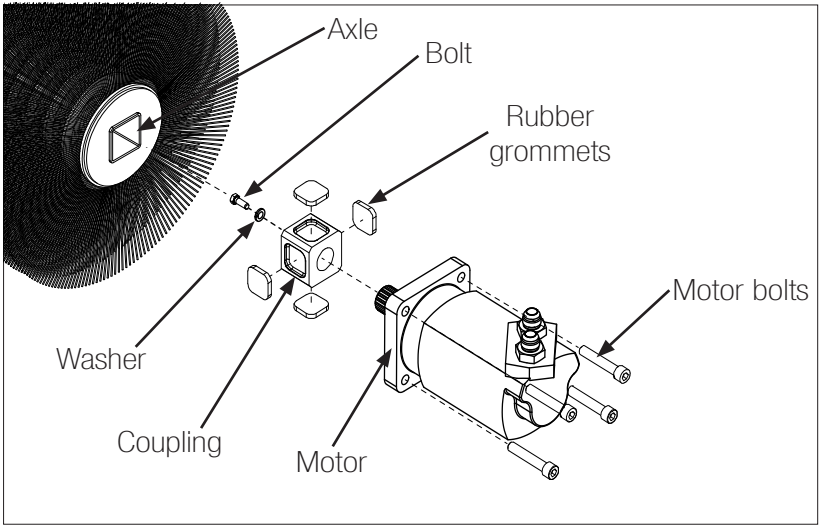
1. Following all standard safety practices and the instructions for removing an attachment in your machine operator's manual, remove and disconnect the Bucket Broom from your Machine.
2. Remove your brush as per the instructions on page 45.
3. The hydraulic motor along with the motor mounting plate can be extrated from the axle of the brush.
4. If the drive block requires replacement, pull the split pin out and remove the castellated nut at the end of the motor shaft. Using a puller, remove the coupling from the motor shaft. Replace the old coupling with the new one by gently tapping it with a wooden or rubber hammer onto the motor shaft until it sits firm.
5. Replace the castellated nut and the split pin.
6. Check the condition of the drive rubber grommets and replace if worn. Wrap a masking tap around the drive block to hold the rubber grommets in place during motor installation.
7. Reassemble the broom axle as set out previously.



Maintenance

Replacing axle or drive couplings (high-flow)

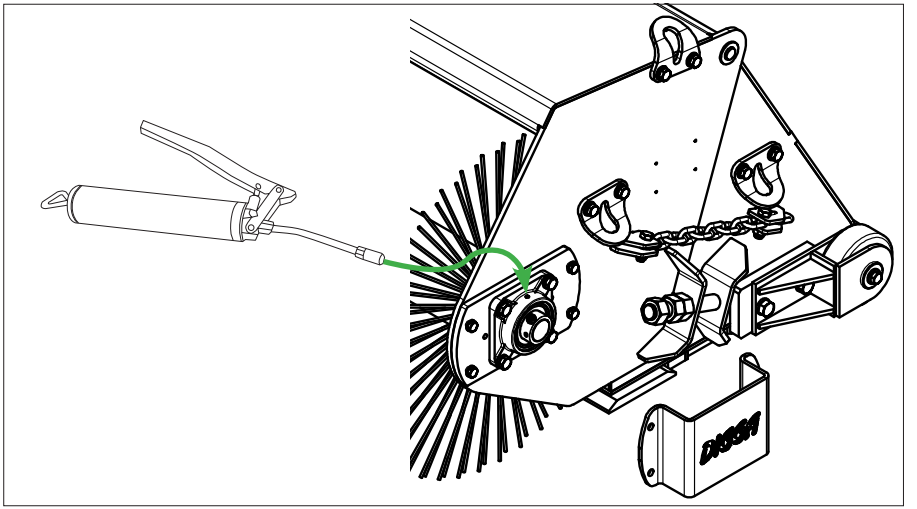
1. Following all standard safety practices and the instructions for removing an attachment in your machine operator's manual, remove and disconnect the Bucket Broom from your Machine.
2. Remove your brush as per the instructions on page 45.
3. The hydraulic motor along with the motor mounting plate can be extrated from the axle of the brush.
4. If the coupling requires replacement, remove the nut and washer in the end of the motor shaft, and using a puller, remove the coupling from the motor shaft. Replace it with a new one.
5. Replace the bolt and washer, use Loctite 243 on the bolt to firmly fix it to the shaft which eliminates the chance of loosening of the bolt during the broom buckcet operation.
6. Check the condition of the drive rubber grommets and replace if worn. Wrap a masking tap around the drive block to hold the rubber grommets in place during motor installation.
7. Reassemble the broom axle as set out previously.



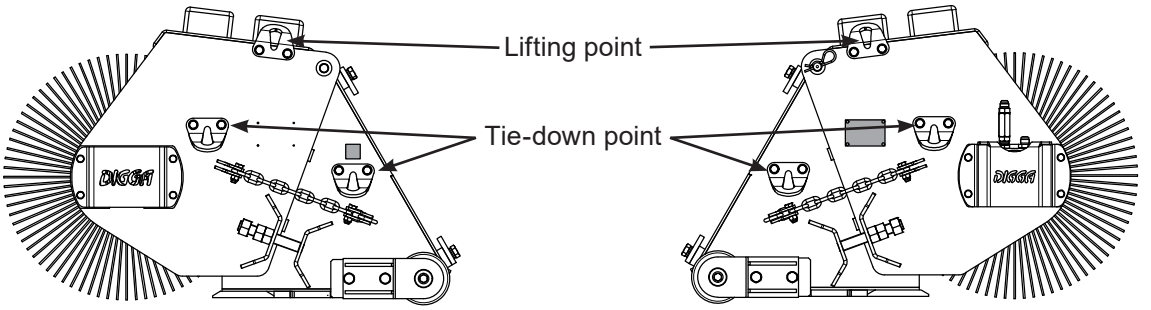
Greasing

The broom bearing is equipped with a grease nipple (located on the RHS of the broom on a closed broom and LHS of the broom in open broom bucket) that allows for the replacement of degraded grease from the bearing housing. This process helps to flush out any impurities that could otherwise reduce the bearing's lifespan.

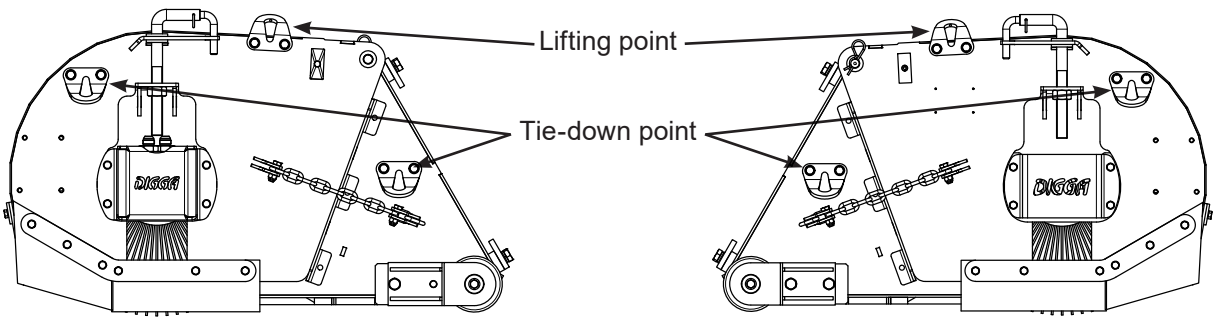
- Always ensure that you clean the grease nipple and greasing gun nozzle before fitting them.
- Grease the Bucket Broom bearing every 40 working hours. However, this interval should be shorter when operating in aggressive environments.



Lifting and Tie-down points



Open Bucket broom



Closed Bucket broom

STANDARD FLOW							
MODEL NO:	**BRUSH WIDTH (MM)**	**OVERALL WIDTH* (MM)**	**DEPTH* (MM)**	**HEIGHT* (MM)**	**WEIGHT* (KG)**	**MAX FLOW (DO NOT EXCEED)**	**MAX PRESSURE (DO NOT EXCEED)**
BR-002399	1600	1911	1182	685	468	95 LPM @ 150 BAR	240 BAR @ 60 LPM
BR-002411	1700	2011	1182	685	483		
BR-002423	1800	2111	1182	685	498		
BR-002436	2000	2311	1182	685	532		
BR-002452	2500	2811	1186	685	667		
BR-002494	1600	1905	1131	739	403		
BR-002509	1800	2105	1131	739	432		
BR-002515	2000	2305	1131	739	460		

HIGH FLOW							
MODEL NO:	**BRUSH WIDTH (MM)**	**OVERALL WIDTH* (MM)**	**DEPTH* (MM)**	**HEIGHT* (MM)**	**WEIGHT* (KG)**	**MAX FLOW (DO NOT EXCEED)**	**MAX PRESSURE (DO NOT EXCEED)**
BR-002400	1600	2015	1182	685	490	230 LPM @ 150 BAR	240 BAR @ 150 LPM
BR-002412	1700	2115	1182	685	506		
BR-002424	1800	2215	1182	685	521		
BR-002437	2000	2415	1182	685	555		
BR-002453	2500	2915	1186	685	689		
BR-002464	3000	3415	1186	685	776		
BR-002495	1600	2009	1131	739	428		
BR-002510	1800	2209	1131	739	455		
BR-002516	2000	2409	1131	739	485		

*Does not include Side-sweeper broom.

Spare Parts

For spare parts of your Cleana Bucket Broom, obtain the serial number from the aluminum serial tag located on the side of the hood of the Bucket Broom. 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 all spare parts contact your nearest Digga dealer or Digga Head Office.

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
151 Wedgewood Road,
Hallam, VIC 3803
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

Troubleshooting

Cleana Bucket Broom

Trouble	Possible Cause	Remedy
Brush does not turn.	Quick Couplers not engaged properly.	Check hoses and engage properly.
	Quick Coupler failure.	Replace faulty coupler.
	An obstruction in the hoses.	Remove obstruction.
	Motor failure.	Contact your local Digga Dealer.
Does not sweep correctly.	Incorrect brush height adjustment.	Check and adjust.
	Worn brush.	Replace brush.
	Brush speed too fast or too slow.	Adjust brush RPM to suit conditions.
	Parent machine travel too slow or too fast.	Adjust travel speed.
	Incorrect brush rotation and or travel direction.	Adjust brush rotation and travel speed.
Hydraulic oil over heating.	Relief valve set too low on parent machine.	Test and set as needed.
	Restriction in hose or quick coupler.	Inspect and repair.
	Faulty coupler.	Inspect and repair.
	Parent machine not equipped with oil cooler or sufficient oil capacity.	Stop, allow to cool when it gets hot.
Brush wearing quickly.	Brush RPM too high.	Reset or lower RPM.
	Incorrect brush adjustment.	Check and adjust.
	Brushing highly abrasive material.	Contact your local Digga Dealer.
Bucket wear edges wearing quickly.	Broom being used at incorrect angle.	Adjust broom angle.

Side-sweeper Broom Accessory

Trouble	Possible Cause	Remedy
Oil Leak.	Loose connection.	Check.
	Damage to fittings.	Repair or replace.
Oil leak at motor.	Damage to hoses.	Repair or replace.
	Damage to motor.	Contact your local Digga Dealer.
	Blown seal.	Contact your local Digga Dealer.
Not Cleaning properly.	Worn brush.	Replace.
	Incorrect rotation.	Reset flow for correct rotation.
	Incorrect brush angle.	Reset broom to correct angle.
Not Rotating.	Black knob on regulating valve been screwed all the way in.	Unscrew knob, Side-sweeper Broom reaches optimum speed of 300 RPM @ 20 gpm.

Notes

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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