

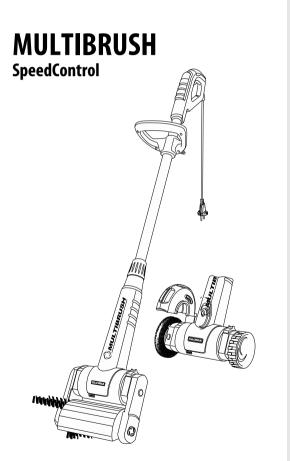




ΦΥΤΩΡΙΟ ΚΗΠΟΓΕΩΡΓΙΚΗ

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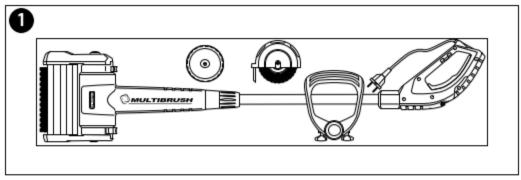


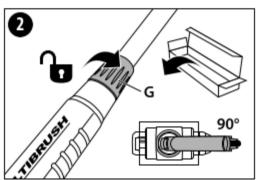
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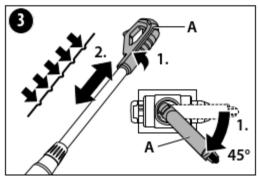
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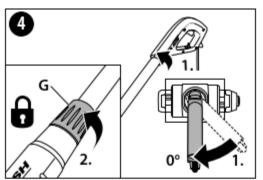


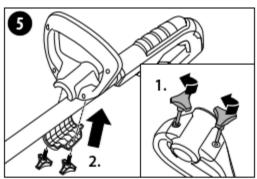
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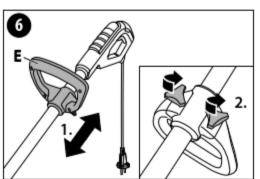


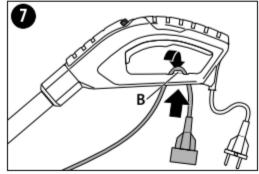




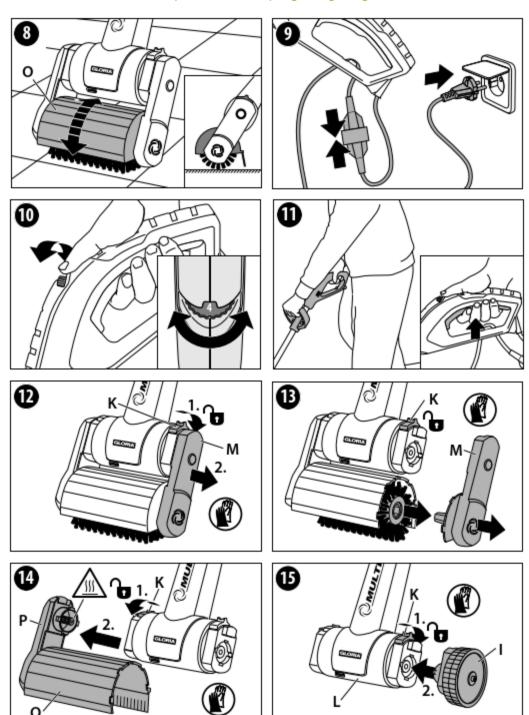




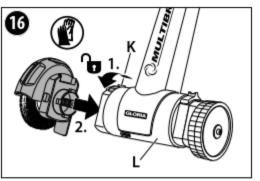


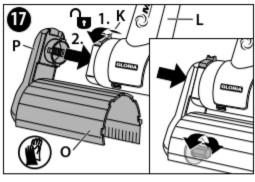


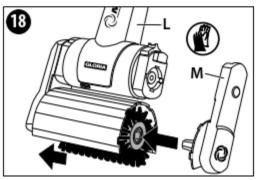
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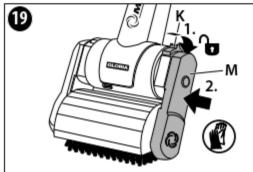


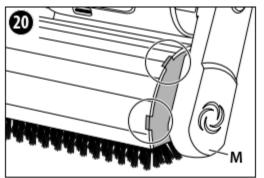
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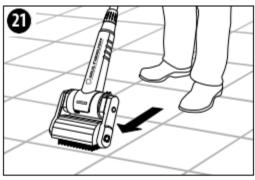


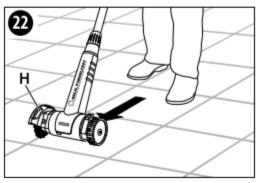


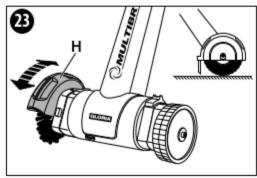




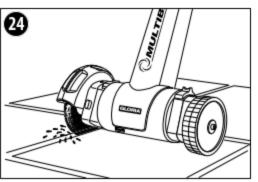


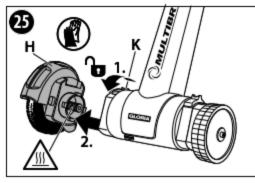


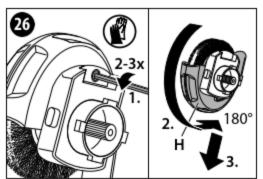


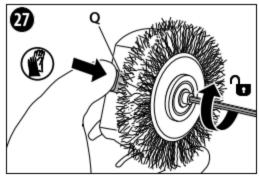


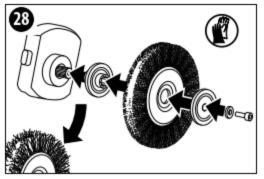
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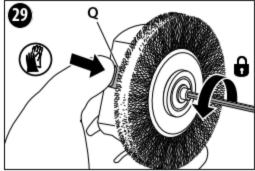












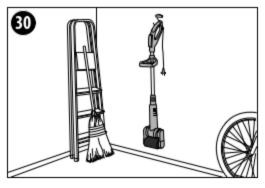


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1 General information about this user manual

This user manual is an integral part of the GLORIA device and must be continually available on or near the device.

This user manual contains important instructions and information required for ensuring the safe use of the device!

This user manual must be read in full by any person assigned with operating/using/maintaining the unit.

This user manual must be kept safe and passed on to any new owner! All warning notices are there to protect your personal safety!

1.1 Symbols on the device an in the user manual





Do not touch! Risk of burns caused by hot surfaces!



Protect against rain and moisture!



Entanglement hazard!

(8)

19



Read the user manual!



Disconnect the mains plug when the power cable is damaged or twisted!



Wear safety goggles!



Wear protective aloves!



Wear safety shoes!



Do not reach underneath!



Keep your distance! Danger from flying parts!



Do not tilt!



Do NOT dispose of old electrical and electronic equipment as normal domestic waste.



Environmentally appropriate disposal!



Recyclable packaging materials!

1.2 Warning notices

! WARNING

This level of warning notice indicates a potentially hazardous situation. Follow the instructions accompanying this warning notice in order to avoid serious injury or death.

A CAUTION

This level of warning notice indicates a potentially hazardous situation which, if not avoided, may result in serious iniurv.

Follow the instructions accompanying this warning notice in order to avoid serious iniury.

This level of warning notice indicates a potentially hazardous situation which, if not avoided, may result in material damage.

Follow the instructions accompanying this warning notice in order to avoid material damage.

NOTE

A note indicates additional information or illustrations that help you operate and facilitate the understanding of the device.

1.3 Intended use

This GLORIA device is intended for private use in the outdoor yard area and on hard surfaces.

Compliance with the accompanying instructions is a prerequisite for the proper use of the device. The user manual also contains the operating, maintenance and servicing conditions.

The device is solely intended as a handheld cleaning and maintenance device for cleaning joints and surfaces on and between surfaces outdoors e.g. stone slabs, tiles, paving stones and wood surfaces.

A CAUTION! Danger caused by improper use!

This device can be dangerous if not used for its intended purpose. You should therefore observe the following safety instructions:

- Use the device for its intended purpose only.
- Note all instructions and information in the user manual.

Reasonably foreseeable misuse

The device is **not** suitable for horizontal use (house walls), overhead work (ceilings), for unsuitable floor or joint materials or for other application areas as those described. The device must not be used in wet weather conditions, rain and in/under water. The manufacturer does not accept liability for any damage or injury resulting from unauthorised modifications to the device or its improper use.

Residual hazards 1.5

This device complies with the accepted rules of technology and the relevant safety requirements!

However, use of the device may present:

- Danger to life and limb of the operator or other persons.
- Damage to the device.
- Damage to the other items of property.

1.6 Limitation of liability

We expressly point out that according to product liability law we do not accept liability for damage caused by our device, insofar as this has been caused by noncompliance with the operating instructions, improper use, improper repair or replacement of parts with non-genuine parts, or if repairs have not been carried out by the customer service team or an authorised expert.

This also applies to accessories.

For your safety 2

This chapter contains important warning and safety instructions which must be observed when handling and using the device.

2.1 **Basic safety instructions**

Observe the following basic safety instructions to ensure the safe handling and use of the device:







- Repairs to devices for the home and garden must only to be carried out by the service centres. Spare parts should be ordered from your dealer. If the parts are not in stock, the dealer will procure them as soon as possible.
- This device complies with the accepted rules of technology and the relevant safety requirements!
- This device may be used by children from 16 years and above and by persons with diminished physical, sensorial or mental capacities or lack of experience and knowledge if supervised or if they have been instructed with respect to safe use of the device and understand the risks that result from using it. Children must not play with the device.

Cleaning and user maintenance must not be performed by children without supervision.

- This device must not be used if the operator is tired, ill or under the influence of alcohol or other drugs or medicines.
- Do not leave the device unattended while it is in operation.
- Protect the device against long exposure to the sun and frost.
- In order to prevent damage and hazards resulting from improper use, you must observe the user manual and store it in a safe place!

(B)

- If the device is passed on to other persons, they must also be given the user manual!
- Only use GLORIA original spares and accessories for the device. Never use worn, modified or defective replacement parts / accessories!

2.2 Safety instructions for connecting the device

! WARNING! Danger of electric shock!

Contact with energised cables/wires or components may result in serious iniury or death!

You should therefore observe the following safety instructions:

- If the power cable is damaged, it must only be replaced by a repair shop designated by the manufacturer in order to prevent a hazard! Please contact the manufacturer or the customer service department.
- Ensure that the supply voltage corresponds with the voltage (V) of the device!
- Only connect the device to an AC grounded power outlet.
- When using an extension lead, only use a grounded cable for outdoor use with a conductor cross-section of at least 1.5 mm²!
- The device should be operated using a residual-current-operated protective device (RCD) with a release current of no more than 30 mA.

Ask your electrical installer!

- The mains plug must be removed:
 - In the event of faults during operation
 - Prior to any cleaning
 - After use

2.3 Safety instructions for operating the device

! WARNING!

Danger of electric shock!

If the energised device comes into contact with water, there is a risk of serious injury or death! You should therefore observe the

following safety instructions:

- Do not use the device with wet hands.
- Do not immerse the device in water or spray or clean it with water. The device must be protected against moisture. However, if the device does fall into water, immediately unplug the mains plug. Never reach into the water if the device is still connected!
- NEVER drive over the extension cable with the device!



CAUTION! RISK OF BURNS **CAUSED BY HOT PARTS!**

Parts of the device can become hot during use and may cause burns. It is therefore important to observe the following safety instructions:

 Wear protective gloves during assembly and cleaning work!

Observe the following safety precautions to prevent injuries and material damage due to misuse and unsafe handling of the product. Misuse can result in INJURIES.

A CAUTION! RISK OF INJURY **DURING OPERATION!**

- Use the device as intended! Work only within the specified performance range.
- Before each use, make sure that the device is in perfect condition: operation is prohibited if:
 - the safety devices (start switch, protective covers) and/or brushes are damaged or worn.
 - the device shows visible signs of damage.

- foreign objects have wrapped around the drive shaft.
- Never disable any safety devices.
- Check area to be cleaned beforehand to avoid damage to device / objects or injuries to living beings. Stones, pieces of wood, wires or the like, as well as other foreign objects must be removed. Objects that are caught by the brushing equipment can be flung out uncontrollably. Keep bystanders away from the danger zone. In order
- Never use the device on house walls or similar, always work vertically so that the brushes are pointed at the ground.

safety in the work area.

to prevent injuries, pay attention to

 Ensure that the ventilation slots are free of dirt.

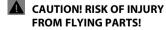




- Never start the device in a tilted position!
- Never put your hands or feet near to the rotating brushing equipment!
 Ensure that sufficient distance is kept between hands, feet and brushing equipment. Brushing tools continue to turn.



- Never lift or carry the device with running motor! Switch motor off and disconnect mains plug when moving device to and from work area, or tilting device.
- Never remove the supplied safety guards.





- Do not start or operate the device if bystanders are in the danger zone.
- Start or operate the device as described in the operating instructions.

- The safety start switch must never be fixed or short-circuited.
- Only clean during daylight or with adequate artificial lighting.
- Never use the device during rain.
- Never clean if others, in particular children or animals, are in the area!
- During cleaning, pay attention to safe and solid position.
- Guide device only at walking pace.

A CAUTION! RISK OF INJURY FROM UNINTENTIONAL SWITCH ON!

Accidental activation can cause injuries. To prevent this, unplug mains plug when:

- leaving device unsupervised.
- maintaining, checking or cleaning device.
- device shows signs of malfunction.

3 Before using the device

This chapter contains information about the delivery status.

3.1 Delivery status

The device is shipped as standard as follows:

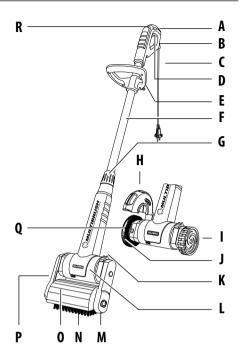
- Device pre-assembled with telescopic tube
- Second handle on telescopic tube
- Surface brush with safety guard
- Joint brush with safety guard
- 1 x user manual and product information

Any tools are individually packed.

(8)

3.2 Elements of the device

- Α Ergonomic handle
- В Cable strain relief
- c Power cord
- D ON/OFF safety switch
- Ε Additional handle
- F Telescopic tube
- G Screw connection telescopic tube
- Safety guard for joint brush н
- Guiding wheel ı
- J Joint brush unit
- K Locking device (2 x left/right)
- L Motor/gear unit
- м Guide arm (removable)
- Surface brush Ν
- 0 Adjustable safety guard
- Р Drive arm (removable)
- 0 Lock button
- Adjustment wheel for speed control (Speed control)



Technical data 4

MultiBrush

Voltage: 230 VAC / 50 Hz Output: 500 Watt

650 rpm to 1600 rpm Rotational speed of joint brush: Rotational speed of surface brush: 450 rpm to 1100 rpm

Dimensions Device width: Surface brush 24.0 cm // Joint brush 28 cm Surface brush 1.15 m // Joint brush 1.04 m Device height (min): Device height (max): Surface brush 1.35 m // Joint brush 1.24 m

Device weight with joint brush: Device weight with surface brush: 3.6 kg Hand-Arm vibration value: $< 3.1 \text{ m/s}^2 (+/-1.5 \text{ m/s}^2)$

Sound pressure level LpA: 71 dB(A) Sound power level L_{WA}: 92 dB(A)

Protection class:

(8)

Ш

2.9 ka

5 Assembly

Figures 1 - 6

NOTE!

- Your device is supplied with the surface brush pre-assembled. Loose parts supplied must be assembled accordingly when working with the joint brush.
- After removing from the packaging, loosen screw connection (G) 2.
 Next, turn handle (A) 45° as shown in figure 3 and adjust the length of the telescopic tube (F) according to your body height, as illustrated.
 5 locking positions are available.
- 4 In the selected position, turn handle (A) a further 45° and tighten the height of the telescopic tube (F) with the screw connection (G) by hand.
- As the device should always be guided and operated with two hands, fit the additional handle (E) as shown in the figure 3, adjust the height and screw the additional handle (E) tightly into place 3.

6 Commissioning

WARNING! BEFORE USE OBSERVE CHAPTER 2 "FOR YOUR SAFETY".

ATTENTION! Improper use of the device poses a risk of damage to property!

You should therefore observe the following safety instructions:

 Clean the roller/joint brush (N/J) before each cleaning operation.

- The air inlet openings on the motor/gear unit (L) must not be blocked or covered.
- Check on a small, if possible hidden area, that the ground to be cleaned will not be damaged by the brushing action.
- Never use the device too long on one spot, always guide at walking pace.

6.1 Operation

Figures 7 - 11

7 Slide the loop of the extension cable into the designated cable strain relief
(B) in the handle (A) and fix it in the designated clip.

i NOTE!

- The performance of the equipment may decrease if unnecessarily long extension cables (>25 m) are used.
- If cable reels are used, unroll the entire cable.
- The cross-section of the cable used must be 1.5 mm².
- 8 Always place the device parallel on the ground which is to be cleaned. Identify the most comfortable but also most effective working angle for yourself and then adjust the 5 click-stop safety guard (O) so that the rubber lip is just above the ground.
 - Make sure that the surface to be cleaned is free from debris e.g. stones, screws etc., which could be flung up.
- **9** Use an extension cable to connect the device to a power outlet (230 V AC).

CAUTION! RISK OF INJURY FROM ROTATING BRUSHING TOOL!

Never start the device in a tilted position!

(8)

- Do not start or operate device if bystanders are in the danger zone.
- Never put your hands or feet near to the rotating brushing equipment!
- Never clean if others, in particular children or animals, are in the area!
- Never use the device in the rain.
- 10 You can regulate the speed of the brush by pressing the speed control on the adjustment wheel (R).

Speed recommendations for			
GLORIA brush	GLORIA brushes		
Position 1-2	soft brushes (wood brush)		
Position 3-4	harder brushes (stone brush)		
Position 5-6	joint brush (wire brush)		

- 11 Hold the device securely by the handle (A) and additional handle (E) and switch on the device by pressing and holding the ON/OFF safety switch (D) in handle (A).
- In case of work interruptions or danger, release the ON/OFF safety switch (D) immediately.

6.1.2 Assembly of the brushing tools

Figures 12 - 20





CAUTION! RISK OF BURNS CAUSED BY HOT PARTS!

During assembly or conversion work the drive parts of the device or components can still be very hot and may cause burns.

It is therefore important to observe the following safety instructions:

Wear protective gloves during assembly!

Disassembly of surface brush followed by assembly of the joint brush

- Switch off the device and disconnect the power cord (C) from the power supply.
- (2) Open the locking device (K) of the guide arm (M), as shown in the illustration.
- **(B)** With the lock applied **(K)** remove the guide arm **(M)** and then the surface brush **(N)**.
- 13 Now open the locking device (K) To of the drive arm (P), as shown in the illustration and remove, with the lock applied, (K) the drive arm (P) with safety guard (O).
- The surface brush is now successfully dismantled.
- 15 Put the guiding wheel (I), as shown in the illustration, on the steering side of the motor/gear unit (L). Now slide the lock (K) into open position \hat{L} , hold this and press the guiding wheel (I) further onto the coupling shaft up to the stop.
 - Release the spring-loaded locking device **(K)**. The guiding wheel **(I)** is locked when the locking device independently returns to its original position **(a)**.
- Put the pre-assembled joint brush unit, as illustrated, on the drive side of the motor/gear unit (L). Slide the lock (K) into open position on, hold this and press the joint brush unit further into the drive shaft up to the stop. Release the spring-loaded locking device (K), the joint brush unit is

89

locked when the locking device independently returns to its original position **(a)**.

Disassembly of joint brush followed by assembly of the surface brush

- Dismantle the joint brush according to handling and function described above.
- (T) Open the locking device (K) ↑ of the drive arm (P) and, with the lock applied, (K) put the drive arm (P) with safety guard (O), onto the drive side of the motor/gear unit (L), as illustrated. Release the spring-loaded lock (K), the drive arm is locked when the locking device independently returns to its original position 分.

i NOTE!

- (P) If the drive unit (P) cannot be pushed onto the drive shaft, reach under the safety guard (O) and turn the hexagonal drive until the drive unit (P) slides onto the drive shaft easily and without force.
- (B) Put the surface brush (N) onto the hexagonal drive and then the guide arm (M), as illustrated, on the steering side of the motor/gear unit (L).
- 19 Now slide the lock (K) into open position $\hat{}_{\sigma}$, hold this and press the guide arm (M) further onto the coupling shaft up to the stop. Release the spring-loaded locking device (K). The guide arm (M) is locked when the locking device independently returns to its original position $\hat{}$.

i NOTE!

Whilst assembling the surface brush, make sure that the side part of the safety guard on guide arm (M) is firmly connected to the safety guard and is correctly sealed.

6.1.3 Using the surface brush on rough surface structures e.g. tiles, paving slabs, exposed aggregate concrete, stoneware etc.

Figure 21

on the switched-on device parallel on the surface to be treated. Hold the device at working angle and make sure that the rubber lip on the safety guard is just above the ground.

Walk at an even steady pace and push the device in front of you.

Depending on the degree of soiling, apply light to medium pressure on the surface brush, adapt your pace of work to the degree of soiling.

i NOTE!

- Always work parallel and hold the device away from your body.
- When working close to edges, the narrower side of the device should point towards the wall.
- In cases of stubborn dirt you can move the device backwards and forwards on the spot (like a scrubber), until the required result is achieved.
- Moist cleaning is also possible in cases of heavy soiling.
 Use a sprayer to moist the surface to be cleaned with water or a cleaning agent, a GLORIA sprayer is ideal for this purpose.
 After moit cleaning rinse the surface with water.

(B)

A CAUTION! RISK OF INJURY FROM RUNNING BRUSHING TOOL!

Never lift the device off the ground whilst switched on during work as there is danger of entanglement!

6.1.4 Using the surface brush on wood surfaces (optionally available as an accessory)

- ATTENTION! Improper use of the device poses a risk of damage to property! You should therefore observe the following safety instructions:
- Never use the hard surface brush with the black bristles for cleaning wood surfaces, as the hard bristles attack the surface of the wood, thereby damaging it.

NOTE!

(8)

- For cleaning wood surfaces use the soft surface brush with the yellow / black bristles.
 This is available as a GLORIA accesso-
 - This is available as a GLORIA accessory and is not included in the scope of delivery.
- Assembly and operating instructions can be found in the product information "Surface brush for wood surfaces".

6.1.5 Using and replacing the joint brush

Figures 22 - 24

22 Assemble the joint brush as described in Chapter 6.1.2. Place the device parallel with guiding wheel and joint brush on the joint to be treated. Hold the device at working angle and make sure that the rubber lip on the safety guard (H) is just above the ground.

NOTE!

- 7 click-stop safety guard (H), turn the dick-stop safety guard to the position described under point "22".
- Align the joint brush with the centre of the joint, walk at an even steady pace and push the device in front of you. Adapt your pace of work to the degree of soiling.

NOTE!

- Always work along the joint and hold the device away from your body.
- In cases of stubborn dirt you can move the device backwards and forwards on the spot (like a scrubber), until the required result is achieved.

A CAUTION! RISK OF INJURY FROM RUNNING BRUSHING TOOL!

 Never lift the device off the ground whilst switched on during work as there is danger of entanglement!

6.2 User information

- Do not remove any wet weeds with the device.
- Never clean wood decks or wood terraces with the joint brush.
- Only clean joints that are intact.
 Damaged or crumbling joints or joints with cracks should not be cleaned with the device.
- Rinse the cleaned surfaces thoroughly after cleaning.
- Worn brushes i.e. frayed bristles should be replaced in good time.
- Switch off the device, before starting with the next cleaning course (e.g. wood decks).

6.3 Replacing the joint brush

Figures 25 - 29

• Switch off the device and disconnect the power cord **(C)** from the power supply.

- Open the locking device (K) to of the joint brush unit (J), as shown in the illustration, and remove the joint brush unit
- 2-3 turns so far out of the joint brush housing, until safety guard (H) can easily be twisted and pulled off.
- Now press lock button (Q) which blocks the drive shaft and unscrew the hexagon socket screw, which fixes the joint brush (J), from the drive shaft

Remove the disc from the joint brush.

- ATTENTION! Improper use of the device poses a risk of damage to property!
 You should therefore observe the following safety instruction:
- Never activate the lock button (Q) when the joint brush is running.
- Pull the joint brush (J) from the flange on the shaft and exchange it for a new one.
- 29 Assembly is carried out in reverse order (().
 - After maintenance or cleaning ensure that all screws, bolts, nuts and safety devices are secure and assembled.

7 Decommissioning & Storage

7.1 Decommissioning

Figure 30

- Take the device out of operation by releasing the ON/OFF safety switch (D) in the handle.
- Disconnect the device from the power supply.

CAUTION! RISK OF INJURY FROM RUNNING BRUSHING TOOL!

- Never lift the device off the ground whilst switching it off as there is danger of entanglement!
- 30 Do not put the device down on the brush during work breaks or after use as this will damage the bristles.

 Always hang the device up or lie it down as shown in the illustration.

.....

7.2 Storage

- A CAUTION! You may be exposed to hazards that could injure you when handling the device.
 You must therefore store the device away from children.
- Remove any dirt and debris.
- Store the device hung up, dry and protected from frost.

8 Maintenance & Cleaning





CAUTION! RISK OF BURNS CAUSED BY HOT PARTS!

During assembly or conversion work the drive parts of the device or components can still be very hot and may cause burns. It is therefore important to observe the following safety instruction:

Wear protective gloves during maintenance and cleaning!

8.1 Cleaning

WARNING! RISK OF DEATH
DUE TO ELECTRIC SHOCK!

If the energised device comes into contact with water, there is a risk of serious injury or death!

(8)

You should therefore observe the following safety instructions:

- Switch off the device and disconnect the power cord (C) from the power supply.
- Do not immerse the device in water or spray or clean it with water.
 The device must be protected against moisture.
 However, if the device does fall into water, immediately unplug the mains plug. Never reach into the water if the device is still connected!
- Clean the outside of the device with a damp cloth or soft brush. Do not use abrasives or harsh cleaning agents.
- Ensure that the ventilation slots are free of dirt.
- In cases of heavier soiling of the roller brush and/or joint brush units, dismantle for thorough cleaning (see Assembly/Disassembly as described in Chapter 6.1.2).
 Clean the brushes in water or with a strong water jet and a hard brush.
- Only use original GLORIA spare parts for repairs.
- Repairs must be carried out by a GLORIA service point.

8.2 Wear of the brushes

i NOTE!

- If the surface brush wears down to a diameter of ø approx. 90 mm, it must be replaced.
- If the joint brush wears down to a diameter of ø approx. 90 mm, it must be replaced.

9 Disposal & Legislation







9.1 Environmental protection & disposal of the device

- This symbol on the product, user manual or packaging indicates that this product must not be disposed of in regular household waste at the end of its service life.
- The device including accessories e.g. surface brush, joint brush etc. must be disposed off at a recycling collection point.

The materials can be recycled according to their designations. You will make an important contribution to the protection of our environment by the correct end-of-life product recycling, material recycling or other form of re-use.

NOTE!

 Please check with your local government to find the appropriate disposal point.

9.2 Disposal of packaging

- The packaging materials have been selected according to environmentallysuitable and disposal-related aspects and are therefore recyclable.
 Returning the packaging to the material circulation saves raw materials and reduces the level of waste.
- Please dispose of unwanted packaging materials according to applicable local regulations.

Technical changes reserved!





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