

RYOBI®

RSH2545B

ORIGINAL INSTRUCTIONS

Electric Impact Shredder



Important!

It is essential that you read the instructions in this manual before assembling, operating and maintaining the product.

Subject to technical modification.

Safety, performance, and dependability have been given top priority in the design of your electric impact shredder.

INTENDED USE

The electric impact shredder is designed to reduce organic garden waste materials, such as branches, twigs and foliage into small pieces.

The product is intended for outdoor use in a stationary position, on firm level ground, by an operator standing at the same level as the base of the product.

The product is not intended for use by children or persons with reduced physical, mental or sensory capabilities.

The product is not intended for non-organic material, metal or any material which exceeds its maximum cutting capacity of 45 mm diameter.

The product must be mounted on the stand provided and must be used with the collection box provided. It is not intended to be mounted in any other way than described or shown in this manual.

GENERAL SAFETY RULES

⚠ WARNING

When using the product, basic safety precautions should be followed to reduce the risk of fire, electric shock and personal injury. Read all of these safety instructions carefully before operating the product. Make sure you are familiar with the controls and the proper and safe use of the product. Please keep these instructions safe for later use.

TRAINING

- Read the instructions carefully. Be familiar with the controls and the correct use of the product.
- Never allow children or people unfamiliar with these instructions to use the product. Local regulations may restrict the age of the operator.
- Keep in mind, that the operator or user is responsible for accidents or hazards occurring to other people or their property.

PREPARATION

- Wear ear protection and safety glasses at all times while operating the product.
- While operating the product, always wear substantial footwear and long trousers. Do not operate the product when barefoot or when wearing open sandals. Avoid wearing clothing that is loose fitting or that has hanging cords or ties.
- Operate the product in the recommended position and only on a firm, level surface.
- Do not operate the product on a paved or gravel surface where ejected material could cause injury.
- Before use, always inspect and ensure that the shredding means, bolts and other fasteners are secure, and that the housing, guards, and screens are undamaged and in place. Replace worn or damaged components in sets to preserve balance. Replace damaged or unreadable labels.
- Before use, check the supply and extension cord for signs of damage or aging. If the cord becomes damaged during use, disconnect the cord from the supply immediately. Do not touch the cord before disconnecting the supply. Do not use the product if the cord is damaged or worn.
- Never operate the product while people, especially children, or pets are nearby.

ELECTRICAL SAFETY

- Read and understand all safety instructions before connecting the product to the mains supply.
- Power plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Before connecting to the mains supply, make sure that the voltage is the same as that indicated on the rating plate of the product or in this manual. Connecting the product to any other power supply may cause injury or damage.
- The manufacturer recommends you connect to a power socket protected by an RCD with a trip of 30 mA or less.
- Keep the ventilation openings clear of debris and other accumulations to prevent

damage to the motor or possible fire.

- Keep the power cord away from heat, oil and sharp edges.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- If you need to use an extension cord ensure it is suitable for outdoor use and has a current capacity rating sufficient to supply your product. The extension cord cable should be marked with either "H05 RN-F" or "H05 VVF". Check it before every use for damage; always uncoil it during use because coiled cords can overheat. Damaged extension cords should not be repaired; they should be replaced with an equivalent type.
- Make sure the power cord is positioned so that it cannot be damaged by the cutting means and will not be stepped on, tripped over or otherwise subjected to damage or stress.
- A power spike during motor start-up causes voltage fluctuations which may affect other electrical products in the same power circuit. Connect the product to a power supply with an impedance equal to or less than 0.404Ω to minimise voltage fluctuations. Contact your electric power supplier for further clarification.

ELECTRIC IMPACT SHREDDER SAFETY RULES

OPERATION

- Do not use the product in bad weather conditions especially when there is a risk of lightning.
- Before starting the product, make certain that the feeding chamber is empty.
- The product will not operate if the collection box is not properly fitted or the shredder housing is not properly closed and the shredder housing knob is not fully screwed in. The collection box and shredder housing are protected by safety interlocks that help to prevent accidental contact with moving parts that will result in serious injury.
- Keep your face and body away from the feed intake opening.
- Do not allow hands, any other part of the body, or clothing inside the feeding chamber, discharge chute, or near any moving part.
- Do not overreach. Keep proper balance and footing at all times. Never stand at a higher level than the base of the product when feeding material into it.
- Always stand clear of the discharge zone when operating the product.
- When feeding material into the product be extremely careful that pieces of metal, rocks, bottles, cans, or other foreign objects are not included.
- If the cutting mechanism strikes any foreign object or if the product starts making any unusual noise or vibration, immediately shut off the motor by pressing the off switch. Allow the product to stop and disconnect the product from the supply. Take the following steps before restarting and operating the product:
 - inspect for damage
 - replace or repair any damaged parts
 - check for and tighten any loose parts
- Do not allow processed material to build up in the discharge zone; this may prevent proper discharge and can result in kickback of material through the feed intake opening.
- If the product becomes clogged, stop the motor by pressing the OFF switch and disconnect the product from the mains supply. Ensure that all moving parts have stopped before opening the shredder housing or attempting to clear the blockage.
- Never operate the product with defective guards or shields or without safety devices, such as debris collector, in place.
- Keep the ventilation openings clear of debris and other accumulations to prevent damage to the motor or possible fire.
- Do not transport the product while the motor is running.
- Stop the product, disconnect from the power supply and ensure that all moving parts have come to a complete stop:
 - before emptying the collection box
 - before leaving the product unattended
 - before clearing blockages or unclogging chute
 - before checking, cleaning or working on the product
- Do not tilt the product while the motor is

running.

- Keep clear of the feed intake after inserting material. The action of drawing the material into the product may cause sudden movement or twisting of the exposed material. Always wear eye protection when operating the product.
- If dust is created by the shredding process, wear a suitable dust mask to help prevent respiratory injury.
- Switch off the product and allow all moving parts to stop before removing the collection box.
- Do not modify product in any way or use parts and accessories which are not recommended by the manufacturer.
- Keep the power source clear of debris and other accumulations to prevent damage to the power source or possible fire.

OVERLOAD PROTECTION DEVICE

The product has an overload protection device. When overloading is detected, the machine will automatically switch off. The overload protection button is located next to the ON/OFF switch. The button will pop up when overload protection is activated. Disconnect the product from the power supply and follow the instructions for clearing a blockage. Let the motor cool down for 3 to 5 minutes. After checking if there is no blockage, connect the power cord to the power supply and depress the overload protection reset button. Press the on switch to turn on the motor.

If the overload protection is activated and there is no blockage, the overload may have occurred when materials are fed into the product too quickly for too long, causing the motor to overheat. Allow the motor to cool down. Empty the collection box before restarting the product.

CLEARING A BLOCKAGE

⚠ WARNING

The blades are sharp and are likely to be hot. Always wear heavy-duty protective gloves when checking and clearing a blockage.

- If the product becomes clogged or blocked, or if the overload protection device is activated, follow these instructions:
 - Turn off the product and disconnect it

from the power supply.

- Make sure that all moving parts have stopped.
- Remove and empty the collection box.
- Remove any exposed material in the feeding chute.
- Unscrew the shredder housing knob and open the upper housing on its hinge to expose the cutting mechanism.
- Remove any debris blocking the feeding chamber by pulling it out from the inside.

⚠ WARNING

The blades may still move even though the power is turned off. Exercise extreme caution around the area of the blades.

- Carefully remove debris around the blades with a suitable hand tool. Using the hand tool, move the metal plates holding the blades to check if blockage has been removed. Do not insert the hand tool into the sharp edges of the blades; doing so will damage the blades.
- If you cannot see the collection box when the cutting means rotate, you need to clear debris in that area. Use a tool to carefully clear the area.
- Once the blockage is cleared, close the upper housing and screw in the shredder housing knob to engage the safety interlock.
- If you are unable to successfully clear a blockage or if you find damage, bring the product to an authorised service centre for repair.

TRANSPORTATION AND STORAGE

- Make sure that the product has been thoroughly cleaned before storing it in a clean, dry place, which is secure and out of the reach of children.
- Allow the product to adequately cool down before storing or transporting.
- When transporting the product, make sure it is secured against falling or movement within the vehicle.

MAINTENANCE

- Before cleaning, inspecting or servicing the product, switch it off and allow the cutters to completely stop. Disconnect the product

from the power supply.

- After some time of shredding, the cutting mechanism will become hot. Allow the cutting mechanism to adequately cool down before cleaning, inspecting, or turning the blades.

⚠ WARNING

The cutter blades are extremely sharp. To avoid injury, exercise extreme caution and care when cleaning or working near the blades, inside the opened enclosure or when the collection box is removed. Always wear heavy-duty protective gloves.

⚠ WARNING

The blades may still move even though the power is turned off. Exercise extreme caution around the area of the blades.

- To ensure the best performance, the product must be kept clean at all times.
- Always clean the product immediately after use. Wherever possible, use a stiff brush inside the feed and discharge chutes and a dry cloth on the outside of the product.
- For optimal shredding performance, do not allow any material to dry and harden on any of the product's surfaces, particularly on the blades.
- Make sure that the feeding chute and the ejection chute are kept clean and clear of all waste materials.
- The cutting blades fitted in the product have two cutting edges. The blades may be turned around by 180° if one edge is blunt. See page 14-15. Replace with original RYOBI parts if your blades are blunt, chipped, or cracked.
- Make sure that all nuts, bolts, and screws are tightened and secure, especially the blade screws.
- Always have any damaged or worn parts repaired or replaced by qualified personnel at an authorised service centre.
- Never attempt to bypass the safety interlock switches on the upper shredder housing; this could lead to serious personal injury, including amputation.

⚠ WARNING

Do not at any time let brake fluids, gasoline, petroleum-based products and penetrating oils come in contact with plastic parts. Never use brake fluids, gasoline, petroleum-based products, or any solvents to clean tool. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use.

- You may perform maintenance tasks described in this manual. For other repairs or advice, seek the assistance of an authorised service centre.

RESIDUAL RISK

Even when the product is used as prescribed, it is still impossible to completely eliminate certain residual risk factors. The following hazards may arise when using the product and the operator should pay special attention to avoid the following:

- Injury caused by noise
 - Wear ear protection and limit exposure.
- Injury caused by inhalation of dust and particles
 - Wear appropriate dust mask.
- Injury caused by contact with cutting means
 - Keep unprotected body parts away from the cutting means at all times.
- Injury caused by thrown debris
 - Wear eye protection at all times and keep body parts away from the area around the feeding chute.

KNOW YOUR PRODUCT

See page 8

1. Shredder housing
2. Feeding chute
3. Handle
4. Shredder housing knob
5. Overload protection reset button
6. On/off switch
7. Safety switch key
8. Cutting blade
9. Power cord
10. Metal frame
11. Collection container
12. Wheel
13. Plunger

SHREDDING GUIDE

For best results when shredding, follow the guidelines shown in the table below.

MATERIAL	SHREDDING METHOD
Twigs and up to 6 mm diameter.	Feed into the feeding chute at a rate which the product will accept without overloading. Use the plunger provided to push the material into the chute if required.
Branches and up to 45 mm in diameter.	Clip off all side growth with secateurs before feeding into the feeding chute. Use the plunger provided to push the material into the chute if required.
Bedding plants, weeds and shrubby growth.	Knock soil and stones off the roots to avoid damage to the blades.
Freshly cut foliage, hedge, and kitchen waste. (I.e. cabbage leaves, vegetable peelings etc.)	With any material having a high moisture content it is advised to feed in some drier sticks at regular intervals to help push the material through the cutting assembly and prevent it from clogging.
Dry sticks and twigs	By inserting these at the end of your shredding task, this will help to clean the moisture and plant sap from the inside of the product and the cutting assembly.

- Do not allow garden waste to accumulate before shredding as it will begin to compost, become too damp and clog the cutting assembly. Dry material will help most material to clear the ejection chute. Save some dry sticks until last to help clean the blade area.
- Frequently monitor the build up/collection of shredded material.
- The exit of the discharge chute must be clear at all times to prevent blockages.
- When the collection box is full, turn the product Off before emptying.

⚠ WARNING

Do not put your hands up inside the shredder's discharge chute to clear away shredded material while the product is switched on or connected to the mains supply. The blades are sharp. Wear heavy-duty gloves and exercise extreme caution when cleaning and clearing blockages.

⚠ WARNING

When feeding long woody branches/stems into the product be careful of whip and vibrations as the materials get caught by the cutter. The operator must wear eye protection whenever using the product.

⚠ WARNING

The cutting device has a tendency to pull branches/stems into the product. Do not try to impede entry of the material being cut once feeding has started. Always wear gloves to prevent skin lacerations when feeding material into the product.

NOTE: In normal use, do not switch off the product until all of the shredded material has cleared the cutter assembly. If the product is switched off too quickly, remaining pieces of material may clog the blade assembly and stall the motor when the product is switched back on.

SYMBOLS ON THE PRODUCT



Read and understand all instructions before operating the product, follow all warnings and safety instructions.



Beware of thrown or flying objects. Keep all bystanders, especially children and pets, at least 15 m away from the operating area



Danger - Rotating blades. Keep hands and feet out of openings while the product is running.



Switch off and remove plug from mains before maintenance or if cord is damaged.



Wear eye and ear protection.



Do not use as a step.



Wait until all machine components have completely stopped before touching them.



Wear non-slip, heavy duty gloves.



Keep hands away from blades



Conforms to all regulatory standards in the country in the EU where the product is purchased.



Ukrainian mark of conformity.



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.



Class II tool, double insulation



The guaranteed sound power level is 107 dB



Press to reset



EurAsian Conformity Mark



Parts or accessories sold separately



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist.



Note



Warning



Lock



Unlock

The following signal words and meanings are intended to explain the levels of risk associated with this product.

⚠ DANGER

Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.

⚠ WARNING

Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

⚠ CAUTION

Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.

CAUTION

Without safety alert symbol

Indicates a situation that may result in property damage.

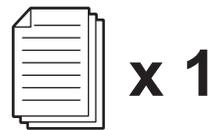
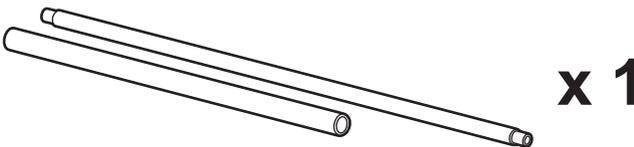
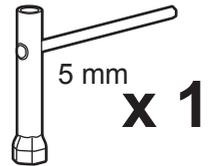
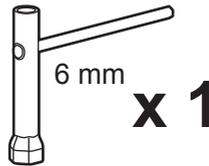
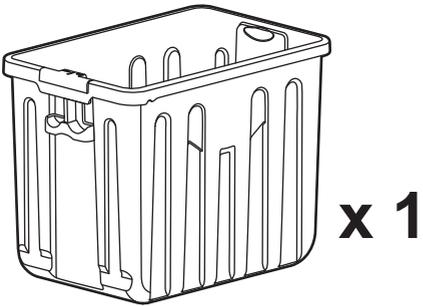
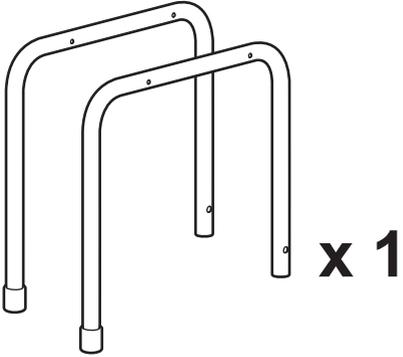
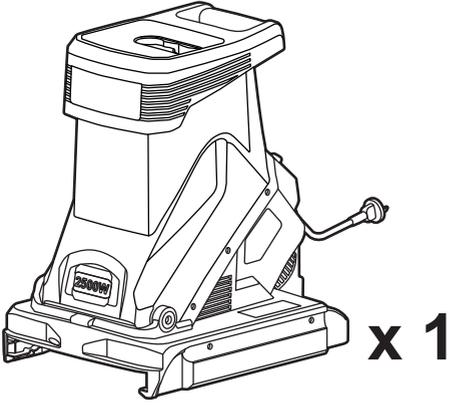
SYMBOLS IN THIS MANUAL

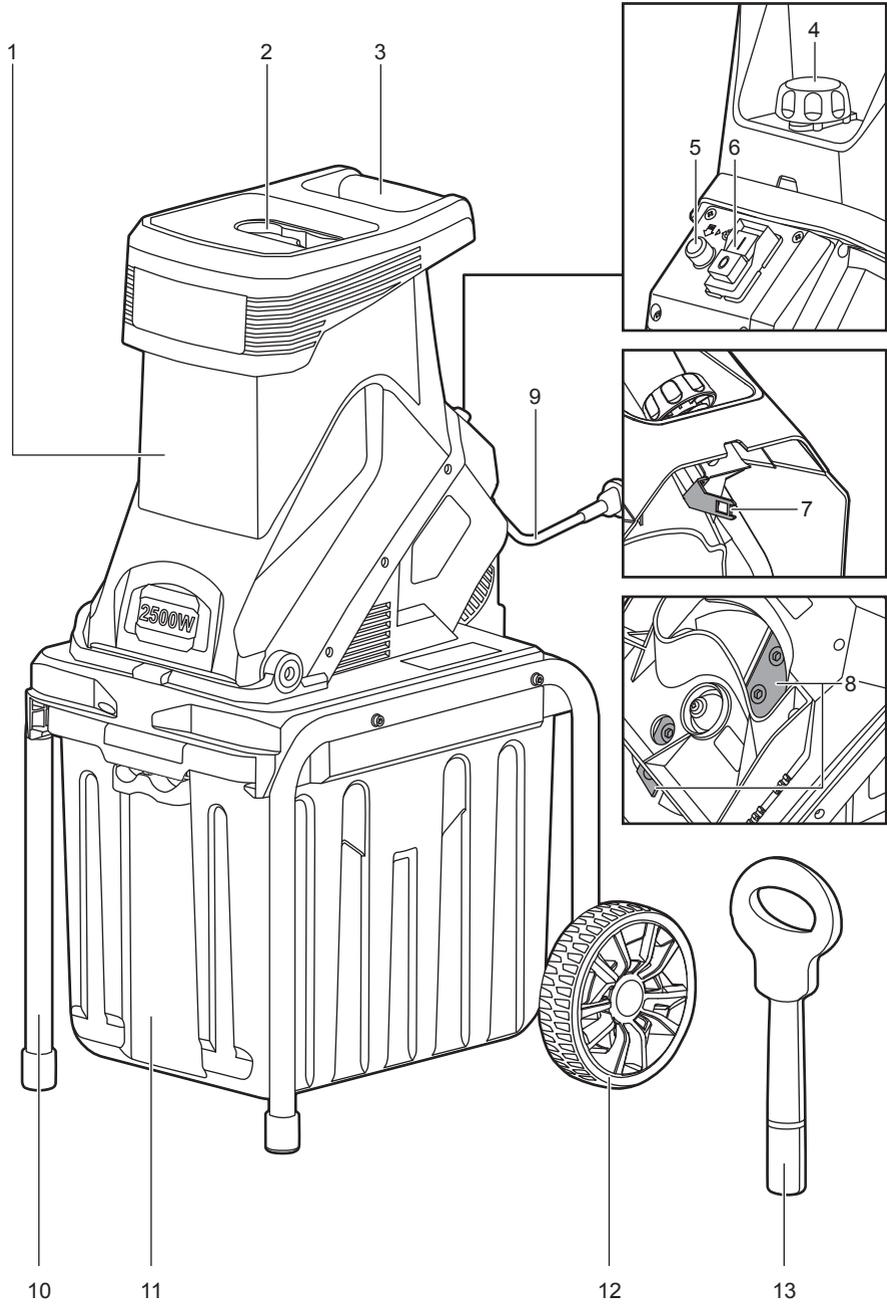


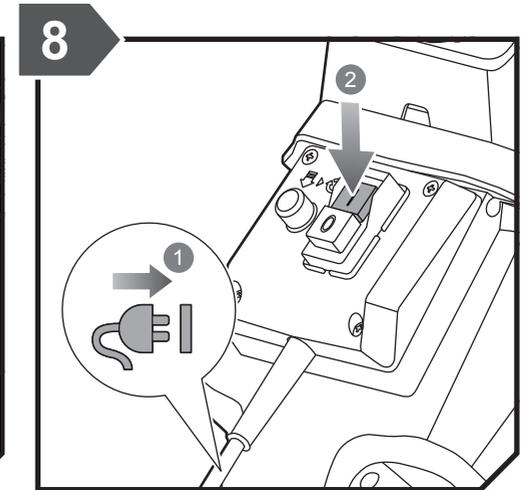
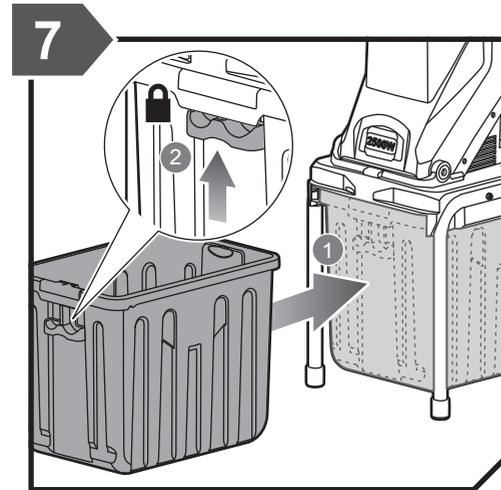
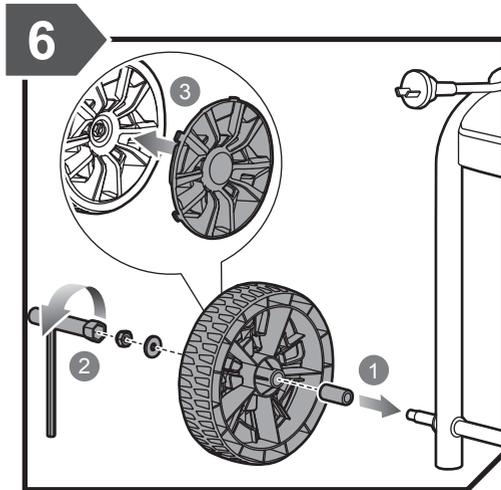
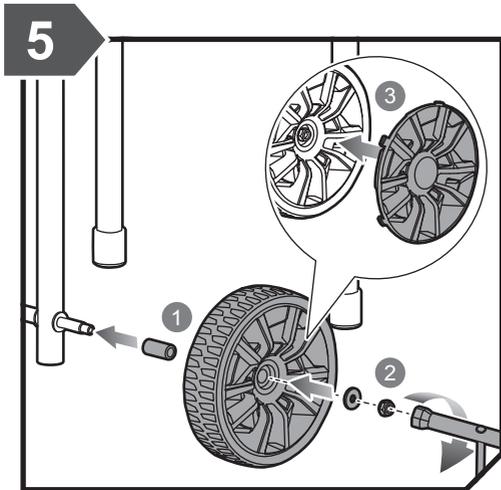
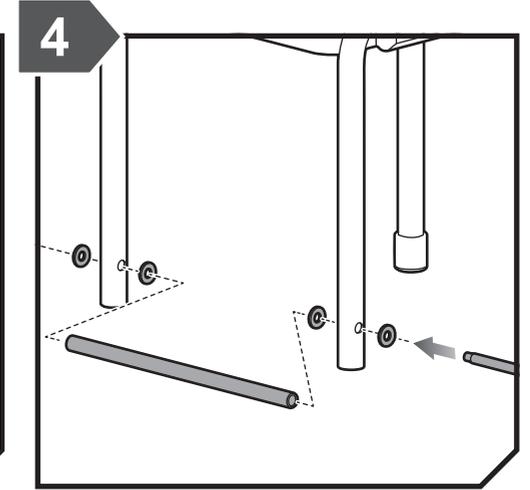
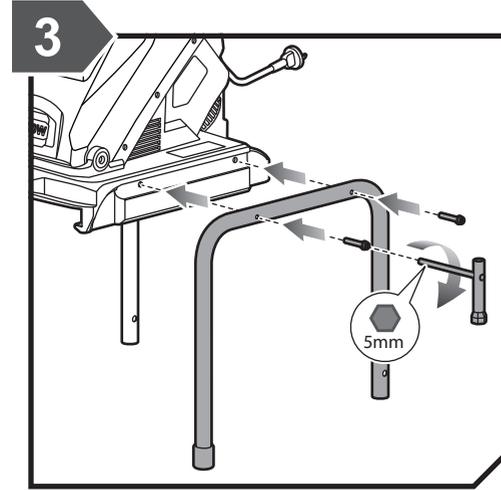
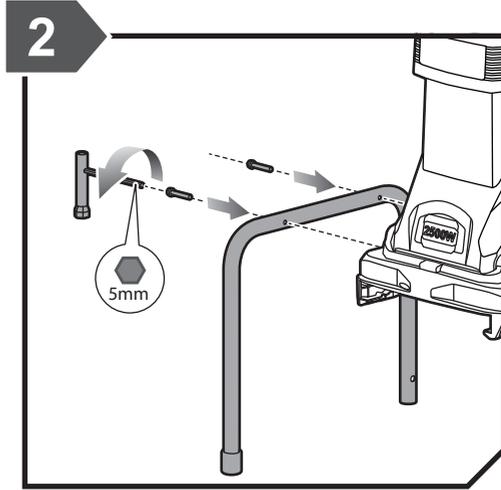
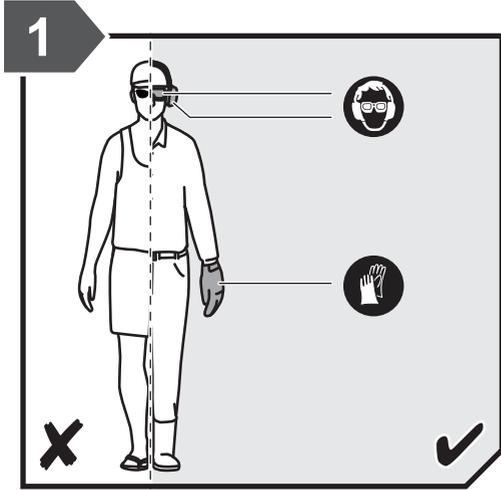
Connect to power outlet.



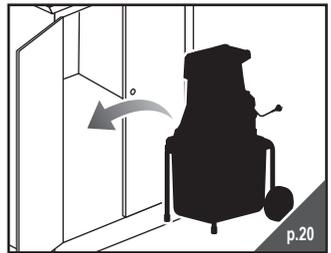
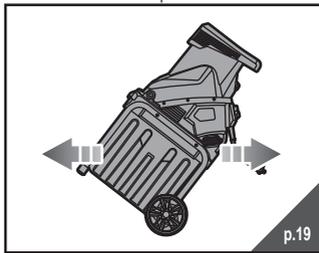
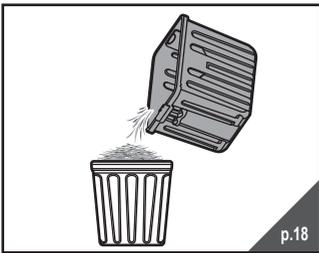
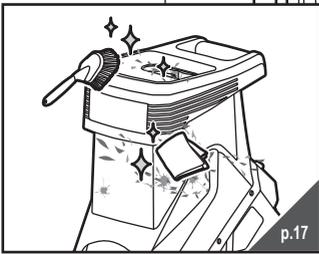
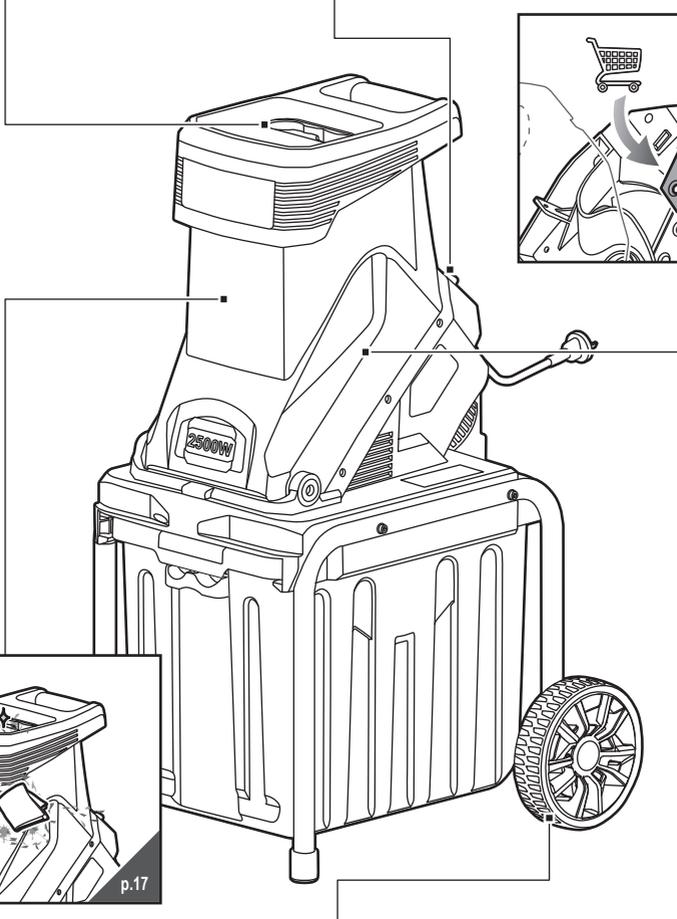
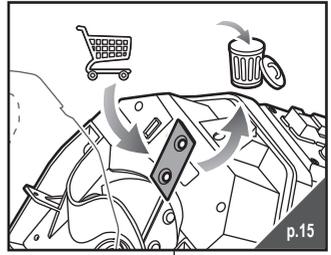
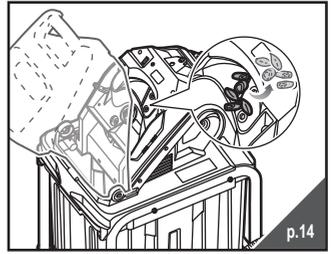
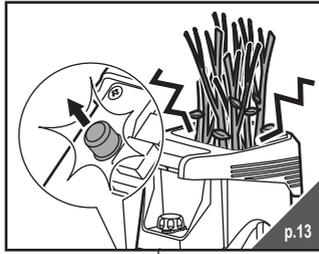
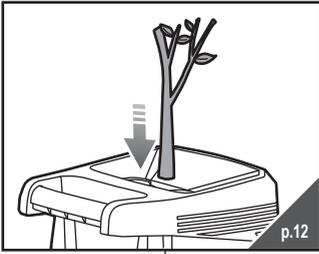
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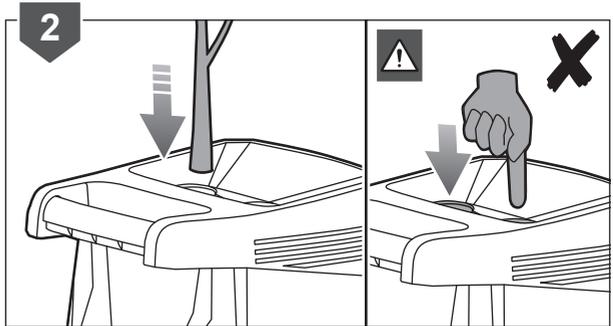
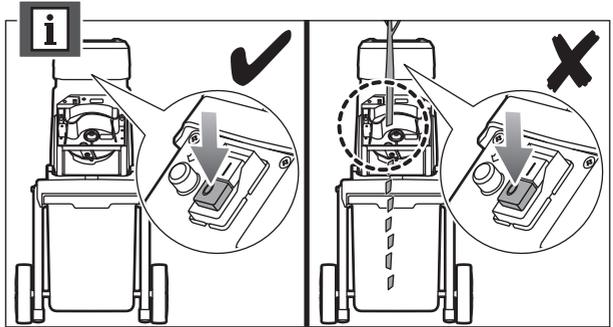
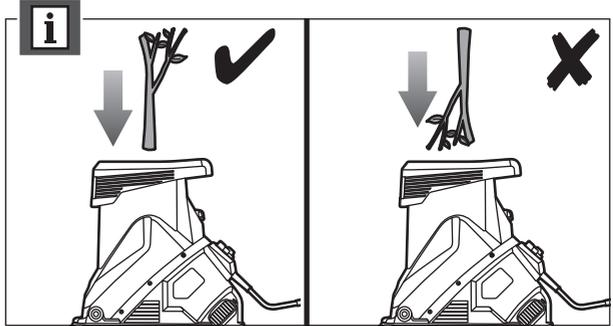
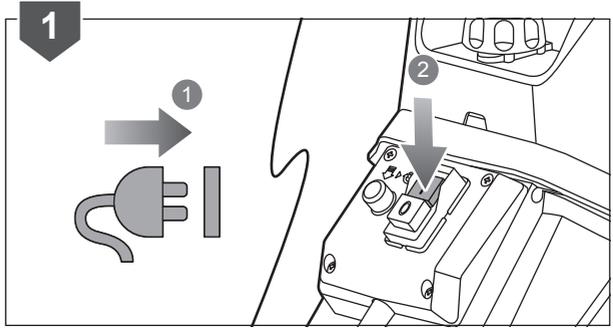
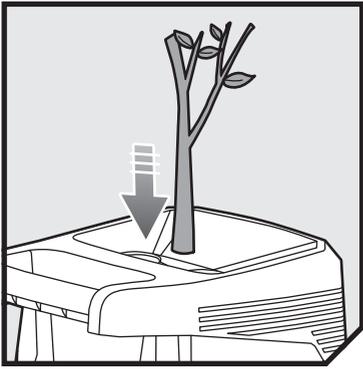






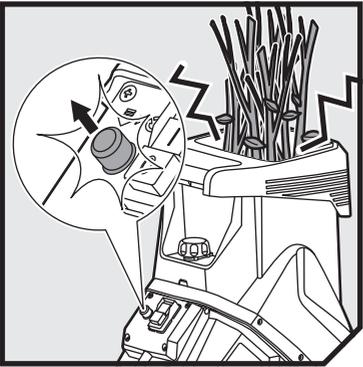
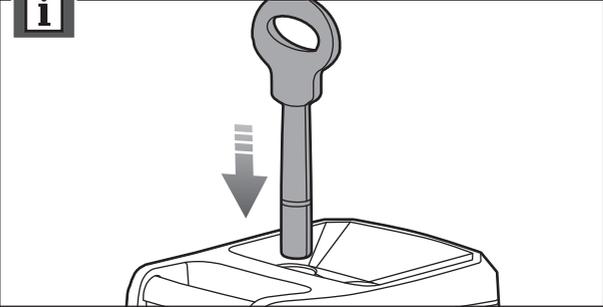




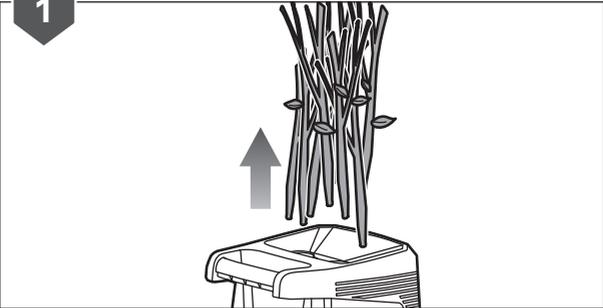




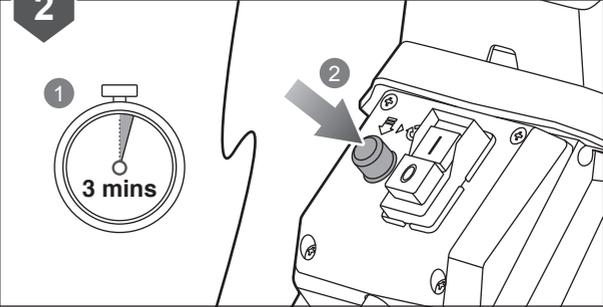
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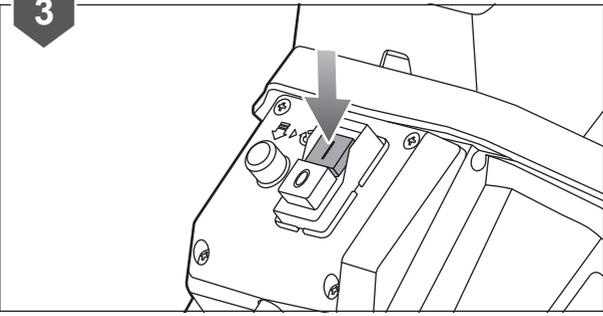
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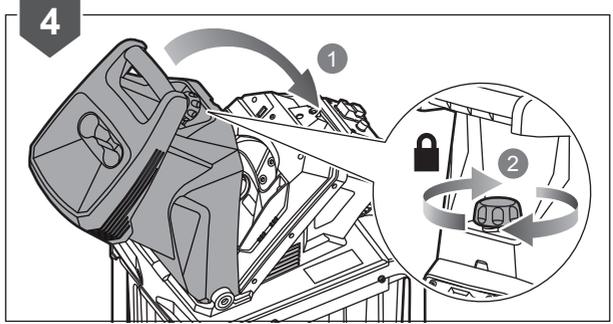
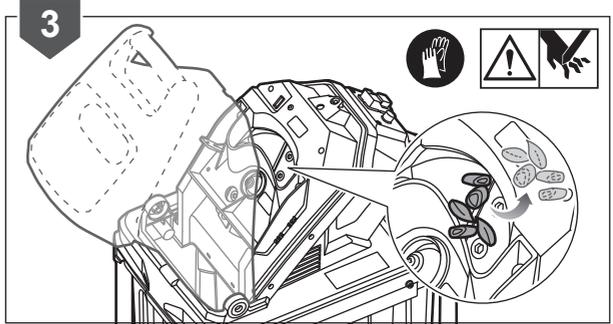
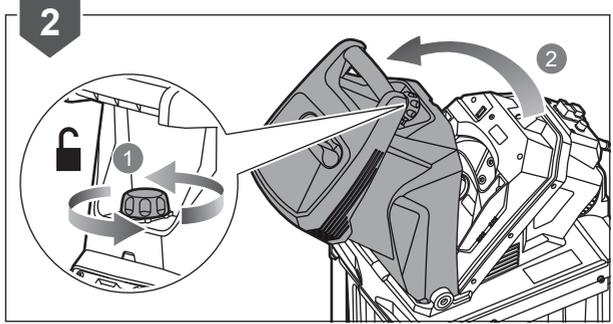
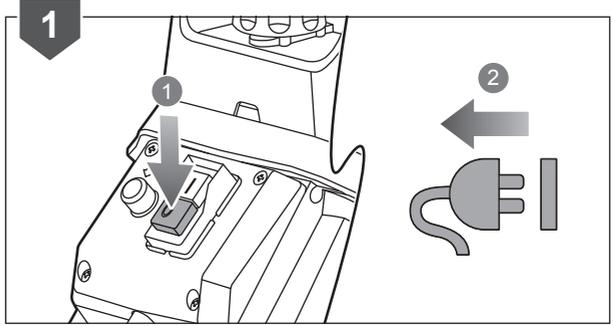
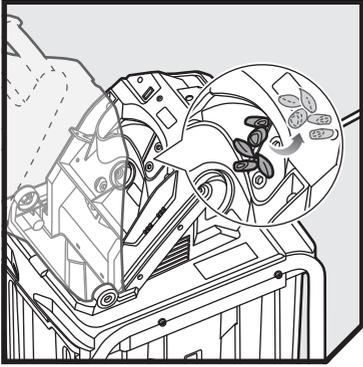


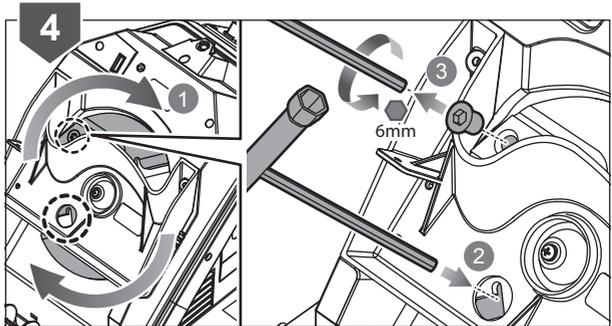
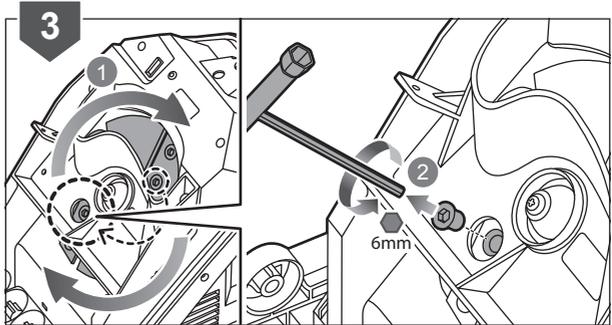
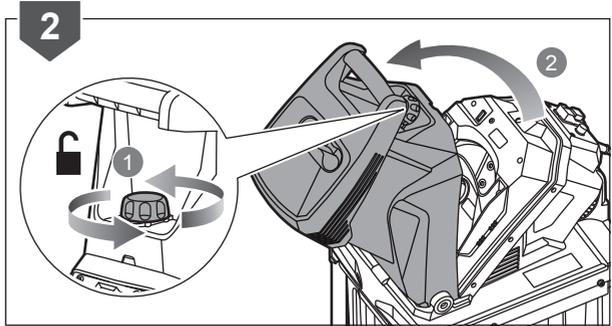
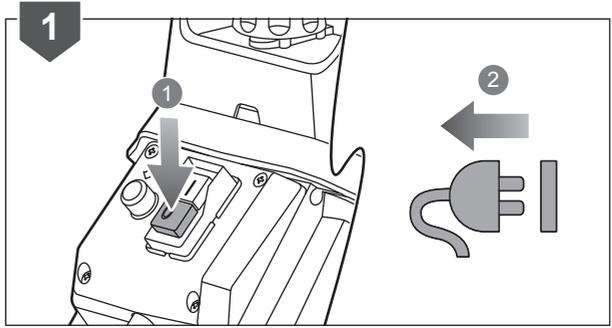
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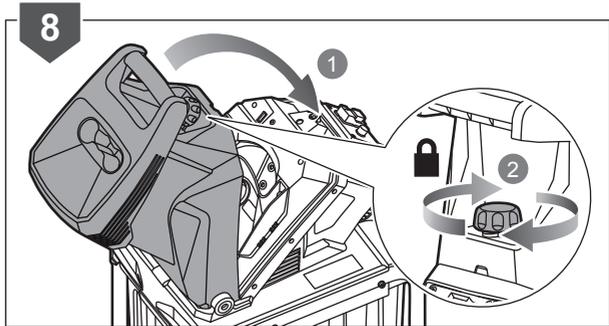
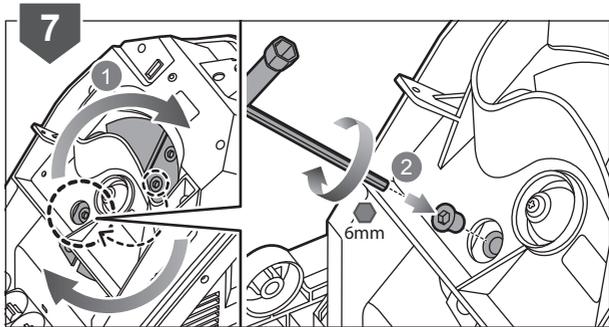
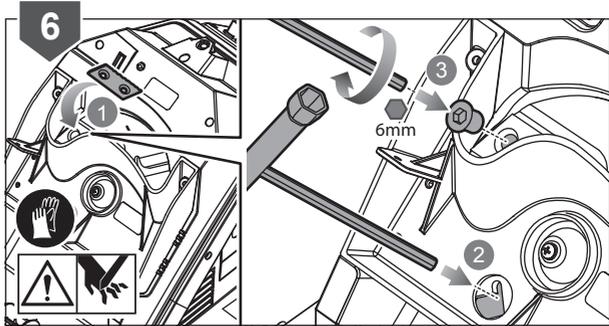
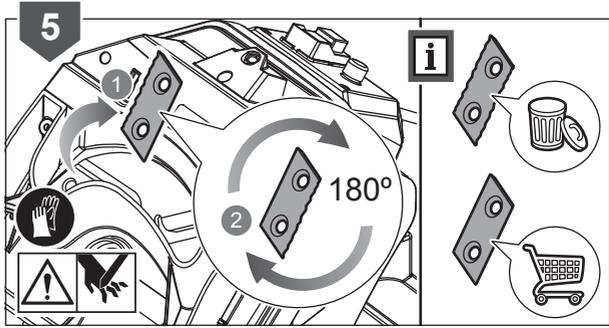


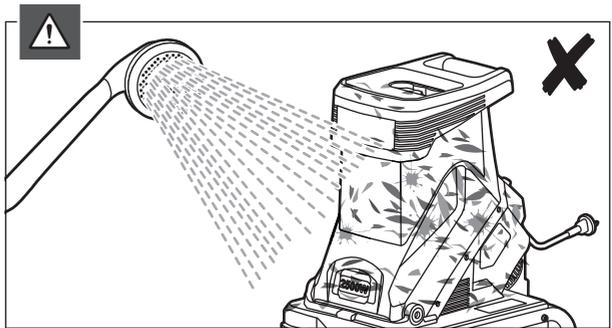
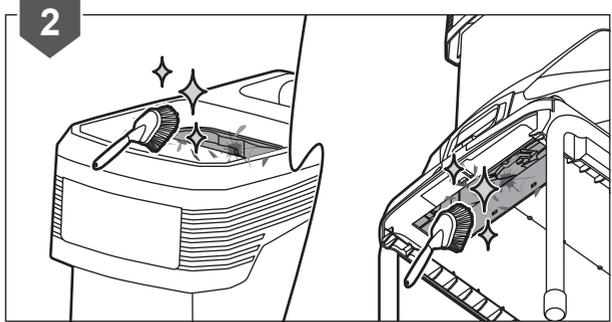
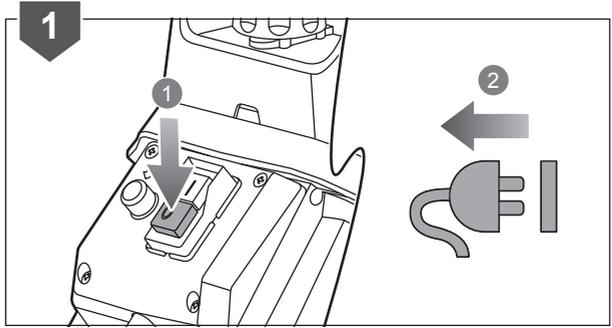
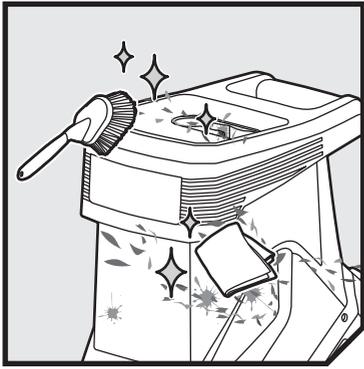
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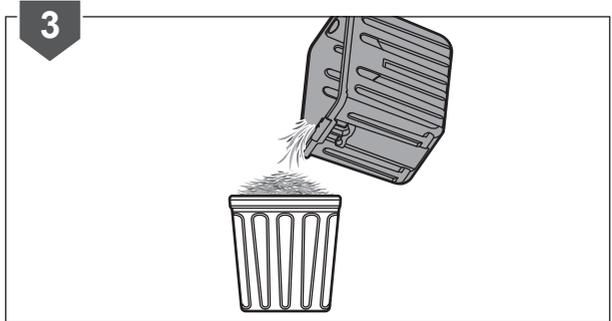
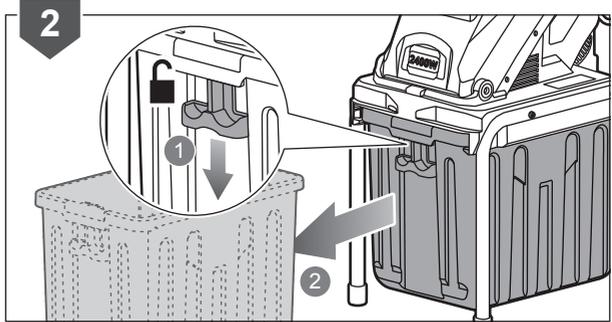
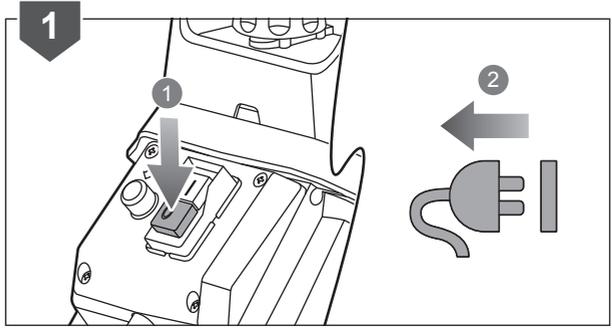
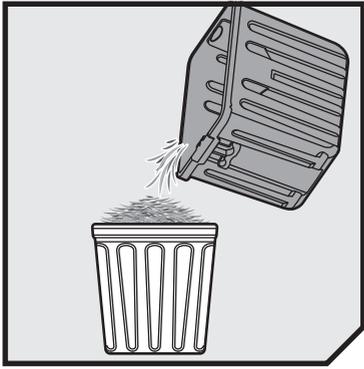


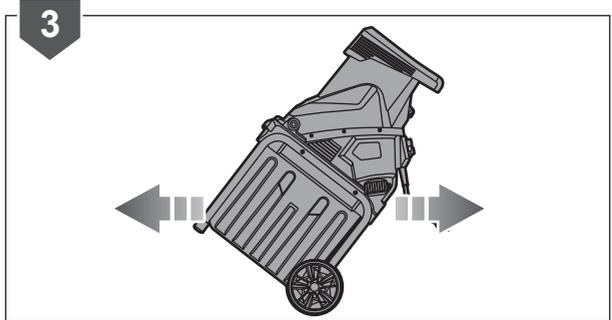
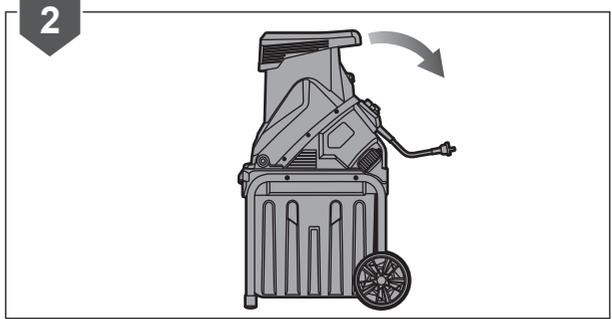
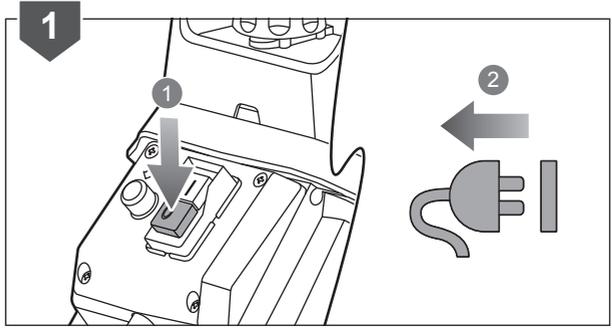
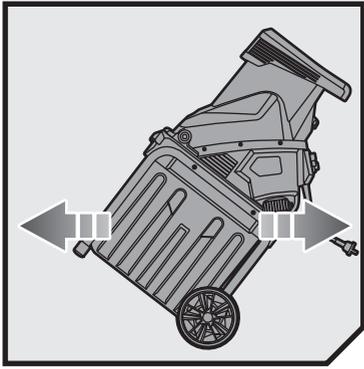


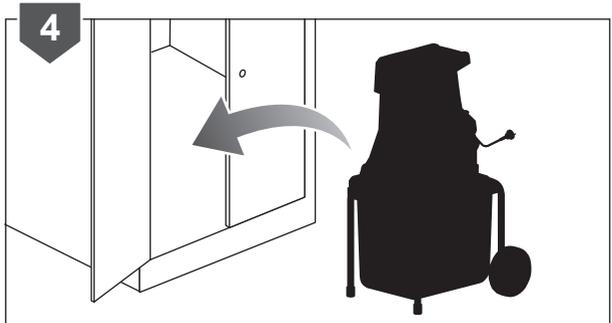
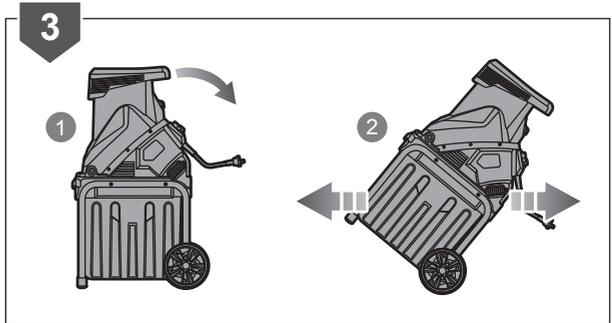
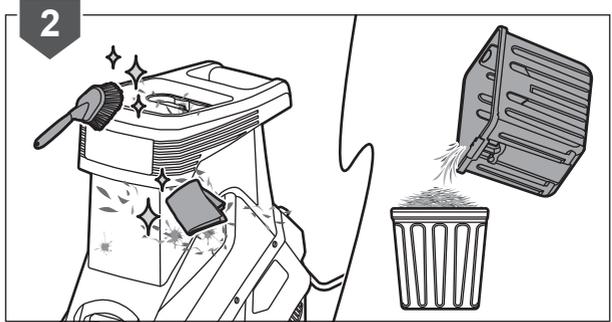
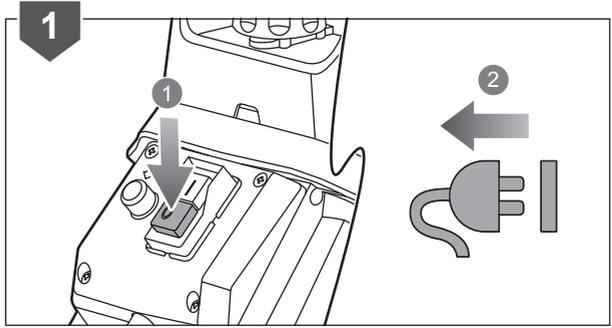
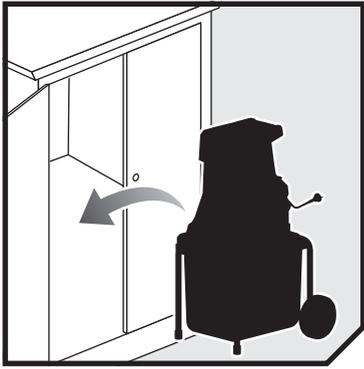












TROUBLESHOOTING

PROBLEM	CAUSE	ACTION
The motor does not run.	The overload protection is activated.	Follow the instructions in the "Overload protection device" section in this manual.
	Safety interlock switches are not engaged.	Check the safety interlock of the collection box and ensure it is properly fitted. Check and ensure the shredder housing is fully closed and the shredder housing knob is properly screwed in.
	Power failure	Check the power supply cable, plug, and the supply circuit breaker.
The material to be chopped is not drawn in.	The material is jammed in the feeding chute.	Immediately turn off the product and follow the instructions in the "Clearing a blockage" section of this manual.
	The cutting blades are blocked.	
Shredder produces abnormal noise or vibration		Immediately turn off the product and follow the instructions in the "Operation" section of this manual.

PRODUCT SPECIFICATIONS

Electric Impact Shredder

Model	RSH2545B
Rated power	2500W(S6, 40%), 2200W(S1)
Rated voltage	230-240V ~ 50Hz
Maximum cutting diameter	45 mm
No-load speed	4500 min ⁻¹
Weight	13.4 kg
Noise emission level (in accordance with EN 50434:2014 Annex FF)	
A-weighted sound pressure level at operator's position	98.6 dB(A)
Uncertainty of measurement	3.0 dB
A-weighted sound power level	106.45 dB(A)
Uncertainty of measurement	0.49 dB

NOTE:

1. The S6(40%) indicates a load profile of 4 minutes load and 6 minutes idle time. For practical application, (i.e. collecting waste and shredding) continuous operation is permitted.
2. The maximum cutting diameter depends on the hardness of the wood.

REPLACEMENT PART

Blade	RAC351
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RYOBI® WARRANTY APPLICATION CONDITIONS

In addition to any statutory rights resulting from the purchase, this product is covered by a warranty as stated below.

1. The warranty period is 24 months for consumers and commences on the date the product was purchased. This date has to be documented by an invoice or other proof of purchase. The product is designed and dedicated to consumer and private use only. So there is no warranty provided in case of professional or commercial use. This warranty applies only on new products.
2. There is a possibility to extend for a part of the range of power tools (AC/DC) the warranty period over the period described above using the registration on the www.ryobitools.eu website. The eligibility of products for extended warranty is clearly displayed in stores and / or on packaging and is contained within the product documentation. The end user is required to register his/her newly-acquired products online within 30 days from the date of purchase. The end user may register for the extended warranty in his/her country of residence if listed on the online registration form where this option is valid. Furthermore, end users must give their consent to the storage of their personal data that is required to be entered online. They must also accept the terms and conditions. The registration confirmation receipt, which is sent out by e-mail, and the original invoice showing the date of purchase will serve as proof of the extended warranty.
3. The warranty covers all defects of the product during the warranty period due to faults in workmanship or material at the purchase date. The warranty is limited to repair and/or replacement and does not include any other obligations including but not limited to incidental or consequential damages. The warranty is not valid if the product has been misused, used contrary to the instruction manual, or has been incorrectly connected to a power supply. This warranty does not apply to:
 - any damage to the product that is the result of improper or lack of maintenance
 - any product that has been altered or modified
 - any product where original identification (trade mark, serial number) markings have been defaced, altered or removed
 - any damage caused by non-observance of the instruction manual
 - any product not displaying the CE approval mark on the rating plate
 - any product that has been attempted to be repaired by a non-authorised warranty service centre or without prior authorisation by Techtronic Industries
 - any product connected to an improper power supply (amps, voltage, frequency)
 - any product used with inappropriate fuel mixture (fuel, oil, Ratio of oil / fuel mixture)
 - any damage caused by external influences (water, chemical, physical, shocks) or foreign substances
 - normal wear and tear spare parts
 - inappropriate use, overloading of the tool
 - use of non-approved accessories or parts
 - Accessories provided with the tool or purchased separately including but not limited to blades, saw chains, cutting lines etc.
 - Any periodic adjustments to or maintenance cleaning of carburetors
 - Components (parts and accessories) subject to natural wear and tear, including but not limited to bump knobs, drive belts, clutch, blades of hedge trimmers or lawn mowers, harness, cable throttle, carbon brushes, power cord, tines, felt washers, hitch pins, blower fans, blower and vacuum tubes, vacuum bag and straps, guide bars, saw chains, hoses, connector fittings, spray nozzles, wheels, spray wands, inner reels, outer spools, cutting lines, spark plugs, air filters, gas filters, mulching blades, etc.
4. For servicing, the product must be sent or presented to a RYOBI authorised service station listed for each country in the following list of service station addresses. In some countries your local RYOBI dealer undertakes to send the product to the RYOBI service organisation. When sending a product to a RYOBI service station, the product should be safely packed without any dangerous contents such as petrol, marked with sender's address and accompanied by a short description of the fault.
5. A repair / replacement under this warranty is free of charge. It does not constitute an extension or a new start of the warranty period. Exchanged parts or products become our property. In some countries delivery charges or postage will have to be paid by the sender. Your statutory rights arising from the purchase of the product remain unaffected.
6. This warranty is valid in the European Community, Switzerland, Iceland, Norway, Liechtenstein, Turkey and Russia. Outside these areas, please contact your authorised RYOBI dealer to determine if another warranty applies.

AUTHORISED SERVICE CENTRES

ACD PLANT LTD

145 Southbank Road
Coundon
Coventry, West Midlands
CV6 1FG
Phone: 02476 594348
Email: danmcgunigle@acdplant.co.uk
Web: www.acdplant.co.uk

CBS Power Tools Limited

Unit 4, V P Square
Storeys Bar Rd, Fengate
Peterborough, Cambridgeshire
PE1 5YS
Phone: 01733 343031
Email: steve@cbspowertools.co.uk
Web: www.cbspowertools.com

C D Powertools

76 Old Road
Churwell Morley, Leeds
LS27 7TH
Phone: 0113 2718494
Email: info@cdpowertools.co.uk
Web: www.cdpowertools.co.uk

C J Sinclair Limited

44 Victoria Road
St Peters
Broadstairs, Kent
CT10 2UG
Phone: 01843 869400
Email: repairs@cjsinclairltd.co.uk
Web: www.cjsinclairltd.co.uk

Powertech Ind Ltd

Unit 2C, Ellison Road
Norwood Ind, Killamarsh
Sheffield, South Yorkshire
S21 2JG
Phone: 01142 474080
Email: stores@powertech-industrial.co.uk
Web: www.powertech-industrial.co.uk

RYCKO Technical Services LTD

104 Green Lane
St Albans, Herts
AL3 6EX
Phone: 08458 678790
Email: info@ryckotechnical.com
Web: www.ryckotechnical.com

ToolTech Industrial Equipment

227 E Dunhill Road, Macosquin
Coleraine, Co Londonderry
BT514LQ
Phone: 028 70359493
Email: john@tooltech.org.uk

For an updated list of authorised service centres, visit <http://uk.ryobitools.eu/header/service-and-support/service-agents>.

DECLARATION OF CONFORMITY

Techtronic Industries GmbH
Max-Eyth-Straße 10, 71364 Winnenden, Germany

Herewith we declare that the product

Electric Impact Shredder
Brand: Ryobi
Model number: RSH2545B
Serial number range: 46230102000001 - 46230102999999

is in conformity with the following European Directives and harmonised standards

2006/42/EC, 2014/30/EU, 2000/14/EC, 2005/88/EC, 2011/65/EU, EN 55014-1:2017, EN 55014-2:2015,
EN 61000-3-2:2014, EN 61000-3-11:2000, EN 60335-1:2012+A11:2014,
EN 50434:2014, EN 50581:2012

Measured sound power level 106.5 dB(A)

Guaranteed sound power level 107 dB(A)

Conformity assessment method to Annex V Directive 2000/14/EC amended by 2005/88/EC



Andrew John Eyre (BEng, CEng, MIET)
Vice President, Regulatory & Safety
Winnenden, Oct. 30, 2017



Authorised to compile the technical file:
Alexander Krug, Managing Director
Techtronic Industries GmbH
Max-Eyth-Straße 10, 71364 Winnenden, Germany



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71364 Winnenden, Germany

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