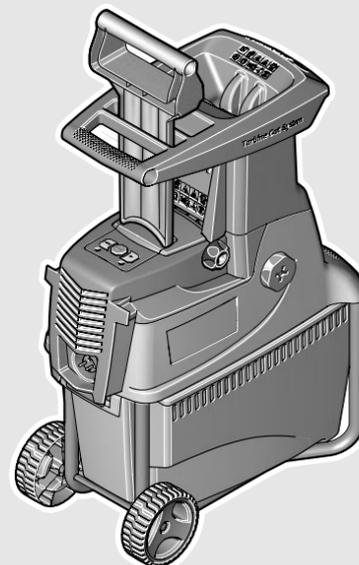


WEU

WEU



Robert Bosch GmbH
Power Tools Division
70745 Leinfelden-Echterdingen
Germany

www.bosch-garden.com

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AXT

22 D | 25 D | 23 TC | 25 TC

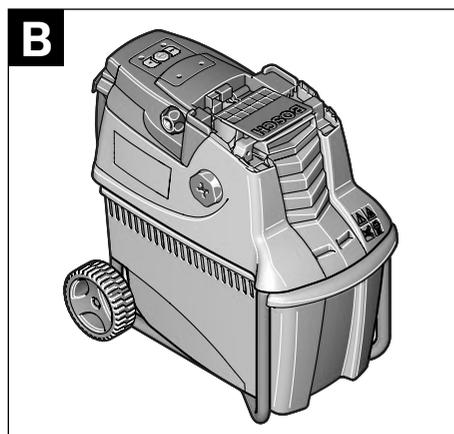
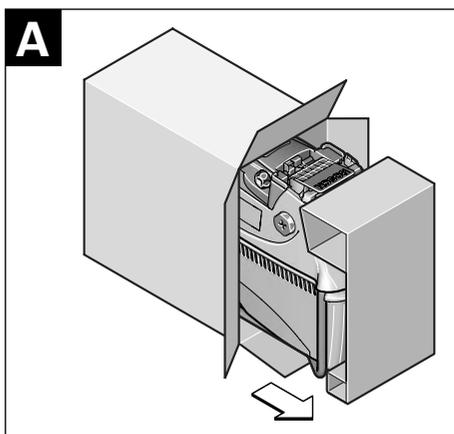
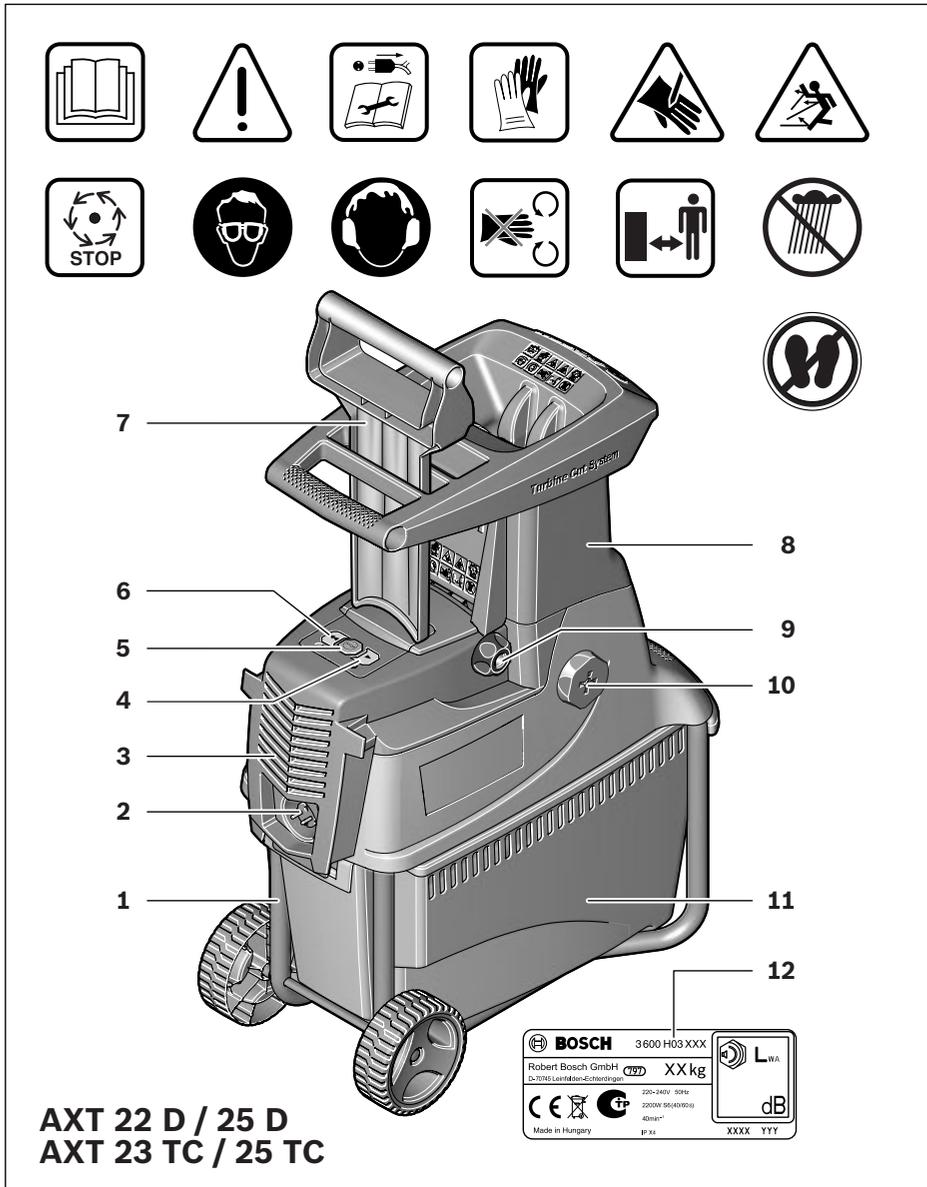
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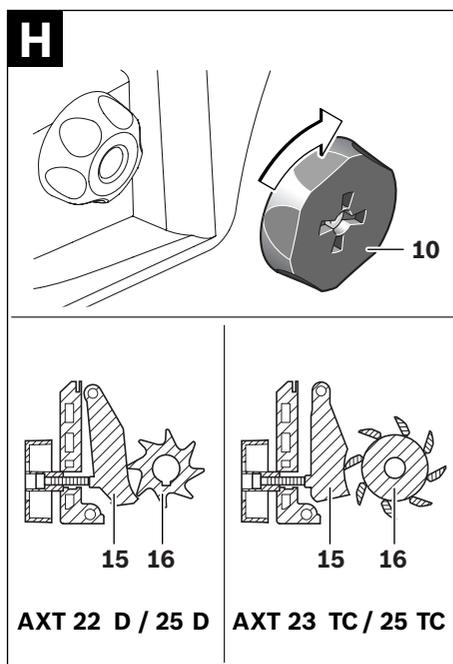
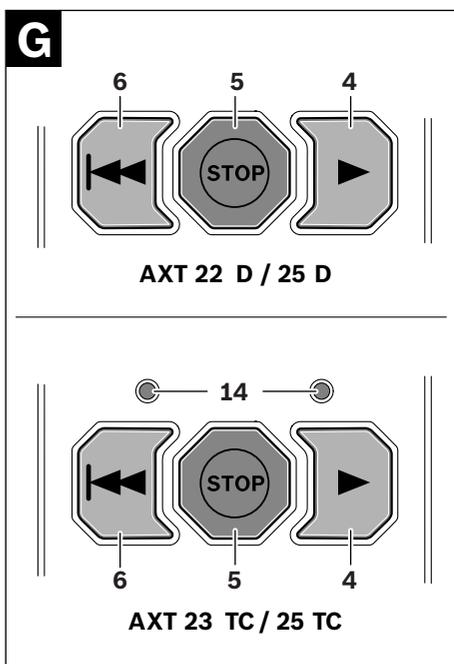
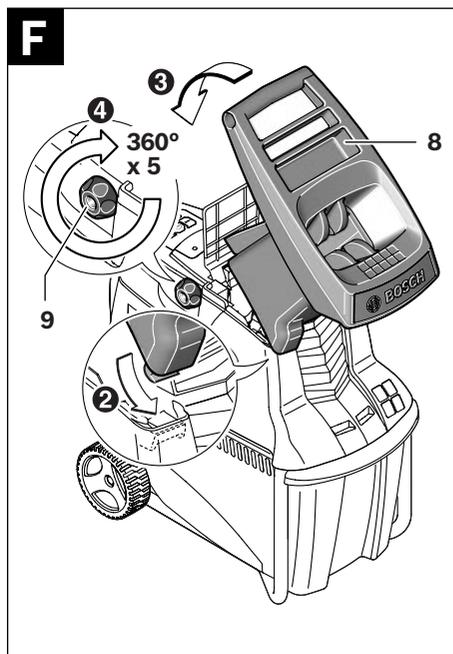
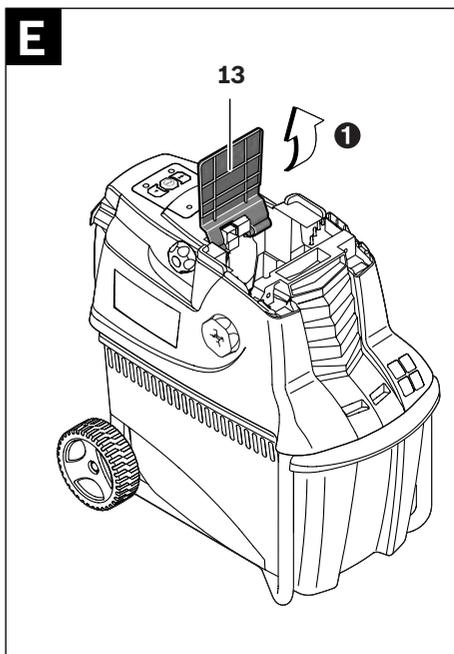
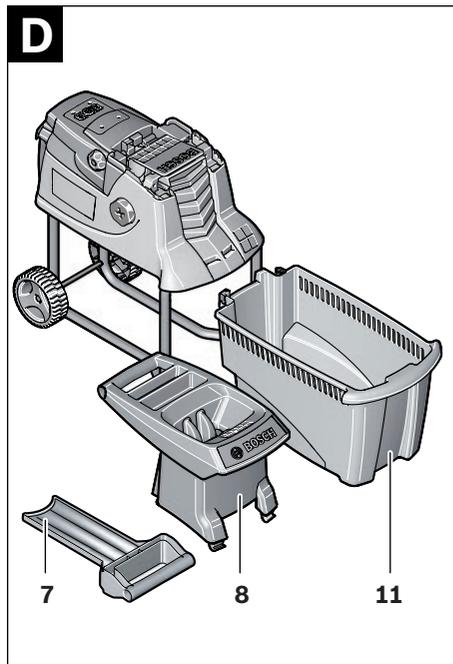
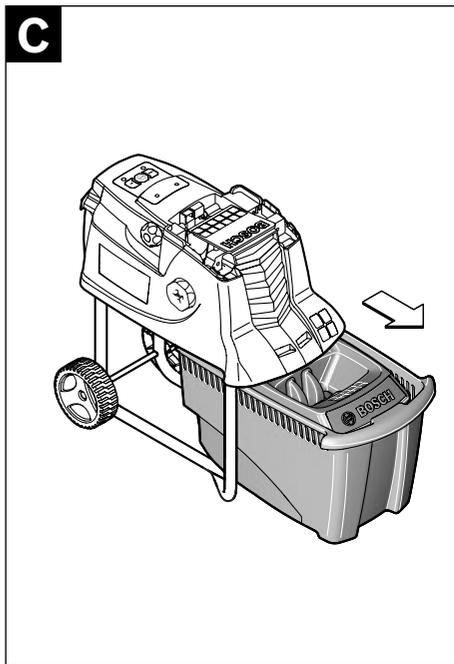
de Originalbetriebsanleitung
en Original instructions
fr Notice originale
es Manual original
pt Manual original
it Istruzioni originali
nl Oorspronkelijke
gebruiksaanwijzing
da Original brugsanvisning
sv Bruksanvisning i original
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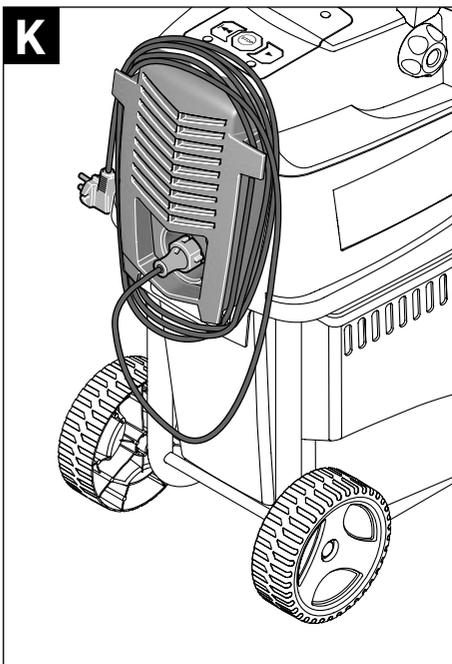
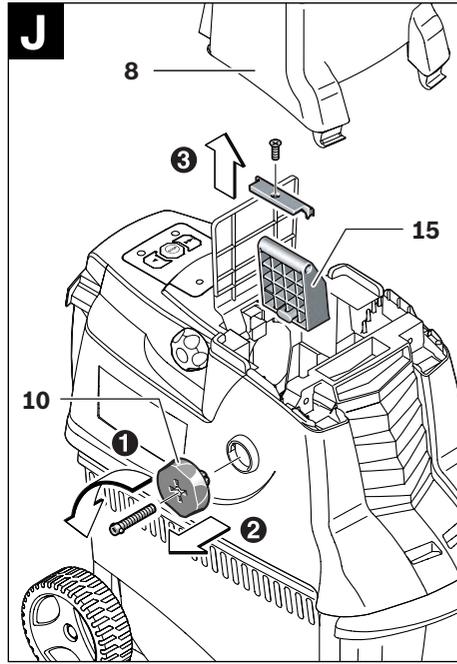
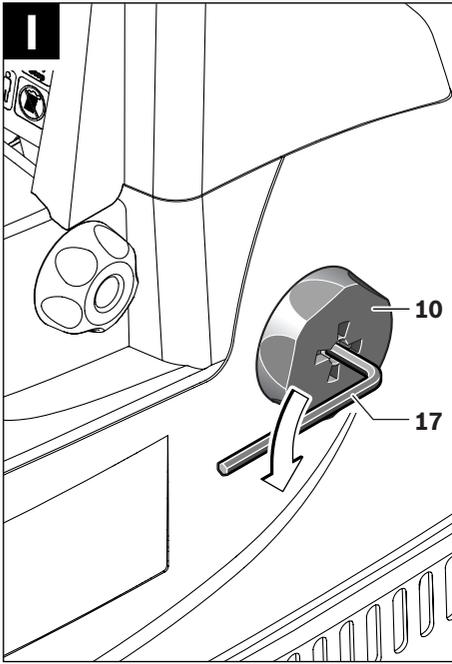
fi Alkuperäiset ohjeet
el Πρωτότυπο οδηγιών χρήσης
tr Orijinal işletme talimatı



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Safety Notes

Warning: Read these instructions carefully, be familiar with the controls and proper use of the machine. Please keep the instructions safe for later use. Before using for the first time, ask for a practical demonstration.

Explanation of symbols on the machine



General hazard safety alert.



Read instruction manual.



Before handling the cutter, switch off and remove the plug from the mains supply. If the cable is damaged or cut through while working, do not touch the cable but immediately remove the plug from the mains supply. Never use the machine with a damaged cable.



Wear protective gloves, sturdy shoes and long trousers.



Danger – rotating blade. Keep hands and feet out of openings while the machine is running.



Pay attention that bystanders are not injured through foreign objects thrown from the machine.



Keep bystanders a safe distance away from the machine.



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



Wear eye protection.



Wear ear protection.



Do not use the machine in the rain or leave it outdoors when it is raining.



Do not stand on the collection box.

Operation

- ▶ **During operation, do not reach into the chute assembly 8. The machine runs on for a few seconds after being switched off.**
- ▶ Never allow children or people unfamiliar with these instructions to use the machine. Local regulations may restrict the age of the operator. When not in use store the machine out of reach of children.
- ▶ This tool is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

- ▶ Before switching on, the machine must be assembled according to the enclosed instructions.
- ▶ It is recommended for increased electrical safety to use a Residual Current Device (RCD) with a tripping current of not more than 30 mA. Always check your RCD every time you use it.
- ▶ Use only extension cables that are intended for outdoor use and are protected against splashes of water.
- ▶ Do not touch the plug or socket with wet hands.
- ▶ Do not run over, crush or pull the power supply cable or extension lead, otherwise it may be damaged. Protect the cable from heat, oil and sharp edges.
- ▶ Other persons and animals should remain at a distance of 3 metres or more when the machine is being used. The operator is responsible for third persons in the working area.
- ▶ Bosch can assure flawless functioning of the machine only when original accessories are used.
- ▶ Become familiar with the instruction manual before attempting to operate this machine.
- ▶ Avoid wearing loose-fitting clothing, hanging cords or ties.
- ▶ Only operate the machine in open space (e. g. not too close to a wall or other fixed objects) and on a firm, level surface.
- ▶ Do not operate the machine on paved or gravel surface where ejected material could cause injury.
- ▶ Before starting the machine, check that all screws, nuts, bolts and other fasteners are properly secured and that guards and screens are in place. Replace damaged or unreadable warning and operating labels.
- ▶ Before starting the machine, make certain that the chute assembly is empty.
- ▶ Keep your face and body away from the chute assembly.
- ▶ Do not allow hands or any other part of the body or clothing inside the chute assembly, discharge chute or near any moving part.
- ▶ Keep proper balance and footing at all times. Do not overreach. Never stand at a higher level than the base of the machine when feeding material.
- ▶ Always stand clear of the discharge zone when operating the machine.
- ▶ When feeding material into the machine 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 machine should start making any unusual noise or vibration, immediately switch off and allow the cutter to stop. Remove the plug from the mains supply and take the following steps:
 - Inspect for damage.
 - Replace or repair any damaged parts.
 - Check for and tighten any loose parts.

- ▶ Do not attempt to repair the machine unless you are qualified to do so.
- ▶ Do not allow processed material to build up in the discharge zone; this may prevent proper discharge which can result in kick-back of material through the chute assembly.
- ▶ If the machine becomes clogged, switch off and allow the cutter to stop. Remove the plug from the mains supply before clearing debris.
- ▶ Check if guards and protective devices are undamaged and properly mounted. Before using, carry out possibly necessary maintenance and repairs.
- ▶ Do not tamper with the motor speed control settings. Contact a Bosch approved service agent if a problem exists.
- ▶ Keep the motor cooling vents clean of debris and other accumulations to prevent damage to the motor or possible fire.
- ▶ Never pick up or carry the machine while the motor is running.
- ▶ Switch off, allow the cutter to stop and remove the plug from the mains supply whenever you leave the work area.
- ▶ Do not tilt the machine while it is running.
- ▶ Do not expose the machine to rain. Only store the machine in a dry place.

Maintenance and Storage

- ▶ When the machine is stopped for servicing, inspection, or storage, or to change an accessory, switch off and remove the plug from the mains supply and allow the machine to cool. Make sure that all moving parts have come to a complete stop before making any inspections, adjustments, etc.
- ▶ Maintain the machine with care and keep it clean.
- ▶ Examine the machine and replace worn or damaged parts for safety.
- ▶ Ensure replacement parts fitted are Bosch approved.
- ▶ If an extension cord is used it shall not be of lighter grade than the supply cord already fitted to the machine.
- ▶ Check the supply and any extension cord regularly for damage or signs of ageing. Do not use the machine, if the cords are damaged.
- ▶ When servicing the cutter be aware that, even though the motor will not start due to the interlock feature of the guard, the cutter can still be moved if the motor is turned by hand.
- ▶ Never attempt to override the interlock feature of the guard.

Product Description and Specifications



Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Intended Use

The product is intended for cutting of fibrous and woody garden waste for composting.

The collection box is intended for collecting the material cut, and for storing the chute assembly and prodder.

The collection box should not be used for other purposes.

Delivery Scope

Carefully remove the garden product from its packaging and check if the following parts are complete:

- Quiet-shredder
- Chute assembly
- Prodder
- Collection box
- Operating instructions

When parts are missing or damaged, please contact your dealer.

When fully assembled the garden product weighs approximately 30.5–31.3 kg. If necessary, obtain assistance to remove from packaging.

Product Features

The numbering of the garden product features refers to the illustration of the garden product on the graphics page.

- 1 Undercarriage
- 2 Power plug**
- 3 Ventilation slots
- 4 Green button
- 5 Red "stop" button
- 6 Yellow button
- 7 Prodder
- 8 Chute assembly
- 9 Clamping knob
- 10 Adjustment knob
- 11 Collection box
- 12 Serial number
- 13 Blade cover plate
- 14 LED indicator (AXT 23 TC/25 TC only)
- 15 Pressure plate
- 16 Cutting roller
- 17 Allen key*

** country specific

***Accessories shown or described are not part of the standard delivery scope of the product. A complete overview of accessories can be found in our accessories program.**

Technical Data

Quiet-shredder		AXT 22 D	AXT 25 D	AXT 23 TC	AXT 25 TC
Article number	3 600 ...	H03 0..	H03 1..	H03 2..	H03 3..
Power consumption, S 6 (40/60 s) ¹⁾	W	2200	2500	2300	2500
Power consumption, S 1	W	2000	2300	2100	2300
No-load speed	min ⁻¹	40	40	40	40
Cutting system		Drum	Drum	Turbine	Turbine
Capacity, max.	kg/h	180 ²⁾	190 ²⁾	215 ²⁾	230 ²⁾
Branch diameter, max.	mm	38 ²⁾	40 ²⁾	42 ²⁾	45 ²⁾
Collection box	l	53	53	53	53
Weight according to EPTA-Procedure 01/2003	kg	31.3	31.3	30.5	30.5
Protection class		⊕ / I	⊕ / I	⊕ / I	⊕ / I

¹⁾The S 6 operating mode (40 %) indicates a load profile of 40 s load and 60 s idle time. For practical application, continuous operation is permitted.

²⁾Depending on the hardness of the wood.

Starting cycles generate brief voltage drops. Interference with other equipment/machines may occur in case of unfavourable mains system conditions. Malfunctions are not to be expected for system impedances below 0.36 ohm.

Noise/Vibration Information

Measured sound values determined according to 2000/14/EC (1.60 m height, 1 m distance away). Typically the A-weighted noise levels of the product are:	3 600 ...	H03 0.. H03 1..	H03 2.. H03 3..
Sound pressure level		81	82
Sound power level		89	90
Uncertainty K		=3	=2

Wear hearing protection!

Declaration of Conformity

	3 600 ...	H03 0.. H03 1..	H03 2.. H03 3..
We declare under our sole responsibility that the product described under "Technical data" is in conformity with the following standards or standardization documents: EN 60335, EN 13683 according to the provisions of the directives 2004/108/EC, 2006/42/EC, 2000/14/EC.			
2000/14/EC: Guaranteed sound power level		92	92
Conformity assessment procedure according to Annex V.			

Equipment category: 50

Technical file at:
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Stowmarket, Suffolk IP14 1EY, England

Dr. Egbert Schneider Senior Vice President Engineering
Dr. Eckerhard Strötgen Head of Product Certification

Dr. Egbert Schneider *Dr. Eckerhard Strötgen*

Robert Bosch GmbH, Power Tools Division
D-70745 Leinfelden-Echterdingen
24.02.2011

Observe correct mains voltage: The voltage of the power source must agree with the voltage specified on the nameplate of the unit. Equipment marked with 230 V can also be connected to 220 V or 240 V.

The circuit must at least be protected as follows:

AXT 22 D/25 D/23 TC/25 TC = 13 A

An extension cable with a cross section that is too small causes a distinct reduction in the performance capabilities of the machine. For cables to 25 m in length, a cross section of at least 3 x 1.5 mm² is required, for cables more than 25 m in length, the cross section must be at least 2.5 mm².

► **WARNING! Inadequate extension cables can be dangerous. Extension cable, plug and socket must be of watertight construction and intended for outdoor use.**

Cable connections should be kept dry and off the ground.

Assembly

For Your Safety

► **Warning! Switch off, remove plug from mains before adjusting, cleaning or if cable is cut, damaged or entangled.**

It is recommended for increased electrical safety to use a Residual Current Device (RCD) with a tripping current of not more than 30 mA. Always check your RCD every time you use it.

If the supply cord is damaged, it must be replaced by a Bosch Service Centre.

When using cable drums, these must be completely unreeled.

Products sold in **GB only**: Your product is fitted with a BS 1363/A approved electric plug with internal fuse (ASTA approved to BS 1362).

If the plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place by an authorised customer service agent. The replacement plug should have the same fuse rating as the original plug.

The severed plug must be disposed of to avoid a possible shock hazard and should never be inserted into a mains socket elsewhere.

Assembly

Remove the machine from the package (see figures A–D).

Assemble the chute (see figures E–F)

- ❶ Lift back blade cover plate **13**.
- ❷ ❸ Hook in chute assembly **8** to the garden product, and then release the blade cover plate **13**.
- ❹ Press the chute **8** down and turn red clamping knob **9** fully clockwise to lock the chute **8** in place, approximately 5x full turns of the clamping knob **9** are required.

Operation

Starting Operation (see figure G)

- ▶ **Always place the machine on firm level ground. During operation, do not tilt or move.**
- ▶ **The motor will coast after switching off!**

Remove earth from roots. Foreign material such as stones, glass, metals, fabrics or plastics must not enter the chute assembly **8**. Otherwise this could damage the cutting roller **16**.

The chute assembly **8** must be empty.

Starting

Press green button **4**.

Stopping

Press red “stop” button **5**.

Restarting Protection

A mains failure causes machine to switch off. The machine cannot restart on its own when the power returns.

Return Motion

Press and hold the yellow button **6** to reverse the feed.

The cutting roller **16** runs backward and frees jammed material.

Overload Protection

Overloading (e. g. blocking of the cutting roller **16**) causes the machine to stop after a few seconds. Press and hold the yellow button **6** to reverse the cutter to unblock. If the blockage cannot be cleared the pressure plate **15** will need to be moved away from the cutter.

The adjustment knob **10** will need to be turned an anti clock wise direction a small amount until the “jammed” material is clear. The pressure plate **15** will need adjustment (see “Pressure Plate Adjustment (see figure H)”).

Working Advice

- ▶ **Wear eye protection, hearing protection and safety gloves at all times while operating the machine.**
- ▶ **Always check before use that the collection box and chute assembly are fitted correctly.**

The machine is fitted with sensors, unless the collection box **11** is fitted correctly and the chute assembly **8** is correctly positioned, the machine will not start and the buzzer beeps (on AXT 23 TC/25 TC also the 2 LEDs **14** flash).

Insert the material to be shredded. The material will be fed by the cutter roller **16** without further assistance.

- ▶ **Longer material standing out from the machine could lash out when being pulled in by the knives! Please keep at safe distance!**

- Only insert as much material so that the chute assembly **8** will not be blocked up.
- Shred withered, moist material and garden waste which has been stored for some days alternately with branches. This prevents the cutting roller **16** from clogging.
- Do not fill soft waste such as kitchen rubbish into the shredder but compost directly.
- Take care that the shredded material can fall freely from the discharge chute – danger of backing up!
- The ventilation slots **3** must not be covered by the shredded material.
- Avoid blocking the discharge chute with shredded material as this could result in kickback of material through the chute assembly **8** opening.

Advice on Shredding

Branches become harder to shred depending on the type, age and dryness of the wood.

For best results, shred fresh branches soon after they have been cut.

Soft garden waste should be shredded in smaller loads, particularly when wet. Any blockages can be avoided by intermittently shredding branches.

Pressure Plate Adjustment (see figure H)

The pressure plate **15** is factory adjusted and may not require adjustment before the first use.

16 | English

Adjustment of the pressure plate **15** is necessary as a result of wear (shredded material, e. g. branches, hangs together as a chain and is not properly cut through).

With the motor running in the forward direction (green button **4**), turn the adjustment knob **10** a small amount at a time in a clockwise direction until a light grinding sound can be heard (the cutting roller **16** cuts the pressure plate **15** to the proper clearance, and some small aluminium shavings fall out of the ejection chute).

To check, look for shavings in the collection box **11**.

Readjust only to the required extent, otherwise the pressure plate **15** could wear unnecessarily.

Troubleshooting

The following chart lists problem symptoms, possible causes and corrective action, if your garden product does not operate properly. If these do not identify and correct the problem, contact your service agent.

- ▶ **Warning! Switch off, remove plug from mains before adjusting, cleaning or if cable is cut, damaged or entangled.**

Problem	Possible Cause	Corrective Action
Garden product fails to operate	Collection box not fitted correctly	Fit collection box correctly
	Chute assembly not fitted correctly	Fit chute assembly correctly
	Mains socket faulty	Use another socket
	Extension cable damaged	Inspect cable, replace if damaged
Machine beeps (also two lights on AXT 23 TC/25 TC) and does not start	Fuse faulty/blown	Replace fuse
	Collection box/chute is not correctly assembled	Ensure the collection box is in position Ensure the chute assembly is in position and clamped by turning the clamping knob (red) fully clockwise
One flashing light on AXT 23 TC/25 TC	None, this is ok, machine is "plugged in" and ready to use	
The material to be shredded is not pulled in	Material to be shredded is wet and soft	Use the prodder to push the material into the machine
	Jammed material in the machine	Clear jammed material (always wear gardening gloves) Use the reverse button (see "Return Motion")
Shredded material is not completely separated and hangs together as a chain	Pressure plate requires adjustment	see "Pressure Plate Adjustment (see figure H)"
The material stucked between the cutter and pressure plate and can not be released by the reverse button	Pressure plate were over set	Push in adjusting knob 10 and insert Allen key 17 (sized 5 – not included) into the recess on the end of adjusting screw and release by anti clockwise (see figure I) Then repeat pressure plate adjustment (see "Pressure Plate Adjustment (see figure H)")

Maintenance and Service

Maintenance and Cleaning

- ▶ **Warning! Switch off, remove plug from mains before adjusting, cleaning or if cable is cut, damaged or entangled.**
- ▶ **Always wear protective gloves when using, adjusting or cleaning the garden product.**

Note: To ensure long and reliable service, carry out the following maintenance regularly.

Regularly check for obvious defects such as loose, dislodged or damaged blades, loose fixings, and worn or damaged components.

Check that covers and guards are undamaged and correctly fitted. Carry out necessary maintenance or repairs before using.

If the garden product should happen to fail despite the care taken in manufacture and testing, repair should be carried out by an authorised customer service agent for Bosch garden products.

In all correspondence and spare parts orders, please always include the 10-digit article number given on the type plate of the garden product.

Removing the Pressure Plate (see figure J)

- ▶ **Warning! Switch off, remove plug from mains before adjusting, cleaning or if cable is cut, damaged or entangled.**
- ▶ **Always wear protective gloves when using, adjusting or cleaning the garden product.**

The cutting roller **16** and the pressure plate **15** have a life expectancy of several years under normal usage and when adjusted according to instructions.

Use the following to remove the pressure plate **15**, to aid cleaning or for replace:

- ❶ Unscrew the pressure plate screw fully as shown.
- ❷ Lift out pressure plate **15** using screw driver.

Fit in the reverse order, the pressure plate **15** will require adjustment (see "Pressure Plate Adjustment (see figure H)").

After Use/Storage

The shredder must not be cleaned with high-pressure cleaners or running water.

Clean the exterior of the machine thoroughly using a soft brush and cloth. Do not use water, solvents or polishes. Remove all grass and debris, especially from the ventilation slots **3**.

Store the machine in a dry place. Do not place other objects on top of the machine.

Cable can be stored on the shredder as shown (only UK) (see figure K).

The shredder can be stored as in figure B by removing the chute assembly (see also "Assemble the chute (see figures E–F)").

After-sales Service and Customer Assistance

Our after-sales service responds to your questions concerning maintenance and repair of your product as well as spare parts. Exploded views and information on spare parts can also be found under:

www.bosch-garden.com

Our customer service representatives can answer your questions concerning possible applications and adjustment of products and accessories.

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Disposal

The garden product, accessories and packaging should be sorted for environmental-friendly recycling.

Do not dispose of garden products into household waste!

Only for EC countries:



According to the European directive 2002/96/EC for Waste Electrical and Electronic Equipment and its implementation into national law, electrical and electronic equipment that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

Subject to change without notice.