



AS200X **BRICK & MORTAR SAW** ALL.FG.200240.00

OWNER'S INSTRUCTION MANUAL

Please read this manual carefully to ensure correct operation and care of the machine. If you use the AS200X correctly, it will provide you with years of reliable service saving you time and money.



UK
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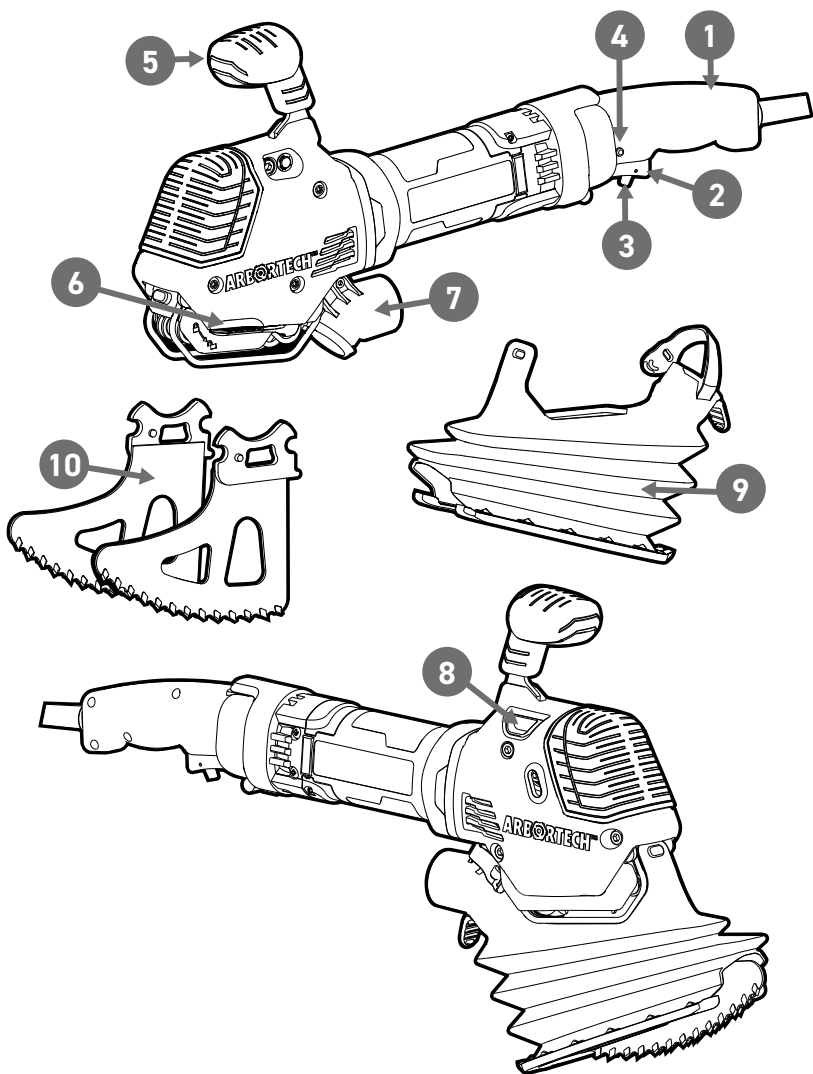


Double Insulation used throughout, no provision for earthing.

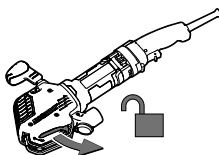
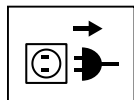
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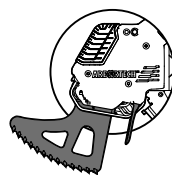
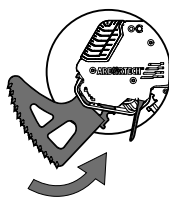
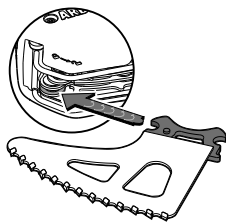
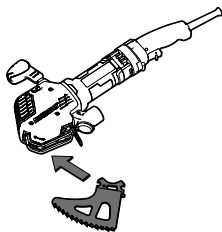
ITEM	DESCRIPTION
1	Rear handle
2	Trigger switch
3	Lock-off lever
4	Lock on button
5	Top Handle
6	Leaver- blade locking
7	Vacuum Bracket
8	Handle Locking Button
9	Dust Boot
10	GP Blades



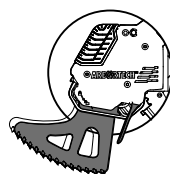
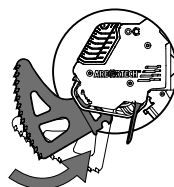
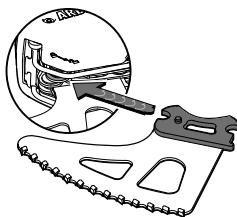
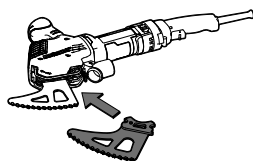
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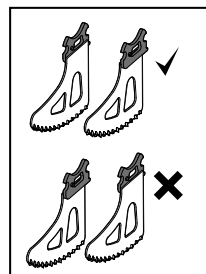
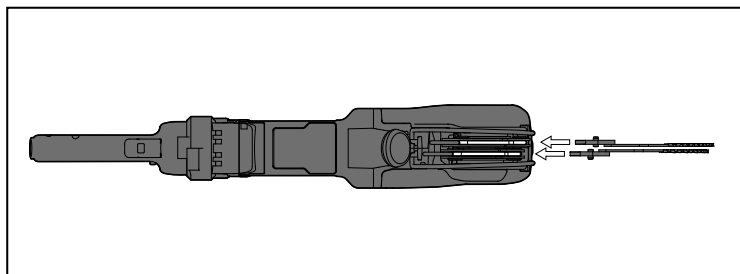
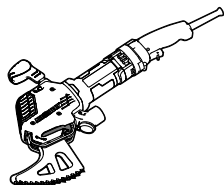
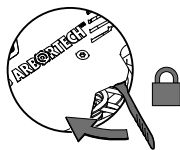
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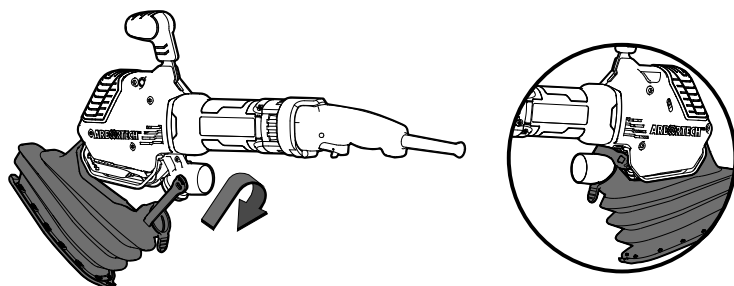
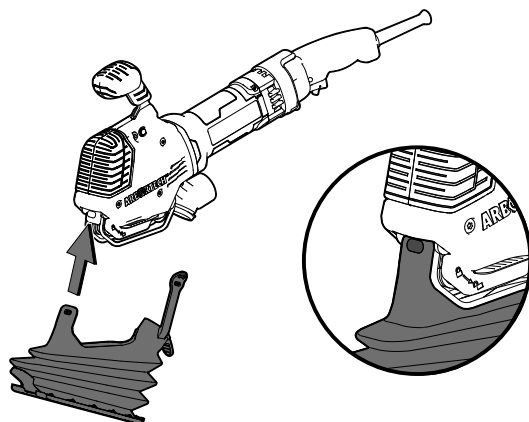
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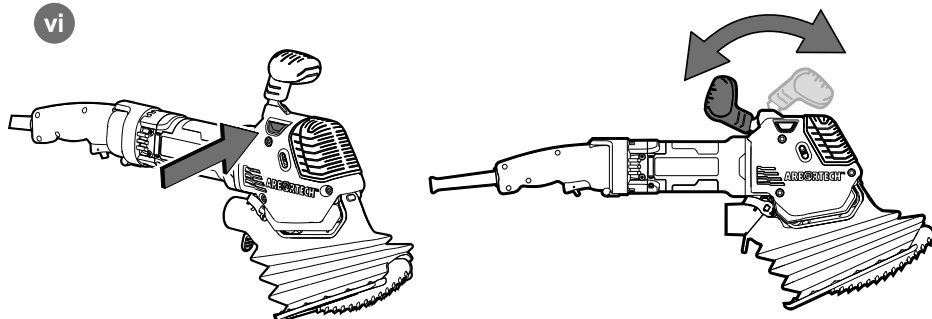
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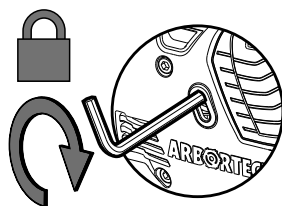
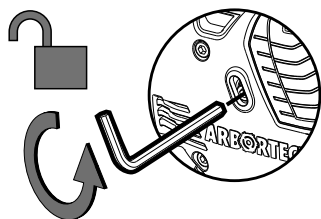
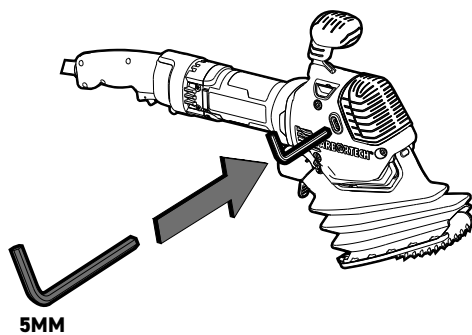
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1. INTRODUCTION

The Arbortech AS200X Brick & Mortar Saw is designed and manufactured in Australia, using only the highest quality components and manufacturing processes.

The unique patented orbital cutting action of two reciprocating blades, allows cutting of brick, mortar and masonry faster than traditional reciprocating saws.


This cutting action also produces minimal amounts of airborne dust, offering a safe and controllable operation, with the ability to cut to a depth of 120mm (4 3/4"), cut square corners and make variable width cuts. The AS200X is ideally suited to a variety of tasks including:


- removal of mortar for tuck pointing of brick walls
- removal of single bricks from walls
- cutting of bricks without damage to adjacent areas or "blow-out" stitching, keying or toothhing of brick walls "chasing" cuts for conduits and similar items into walls
- cutting holes in walls or other surfaces
- finishing corner cuts in walls.


The tool can be fitted with a range of blades to best suit different applications.

Definitions: Safety Guidelines

The definitions below describe the level of severity for each signal word. Please read the manual and pay attention to these symbols.

 **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: Used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, **may** result in **property damage**.

 Denotes risk of electric shock.

2. GENERAL POWER TOOL SAFETY WARNINGS

 **WARNING** Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool.

1) Work area safety

- Keep work area clean and well lit.** Cluttered and dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical safety

- Power tool 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.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool.**
Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3) Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- b) **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- d) **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of these devices can reduce dust-related hazards.
- h) **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety.** A careless action can cause severe injuries within a fraction of a second.
- c) **Disconnect the plug from the power source and/ or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- e) **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
- h) **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

4) Power tool use and care

- a) **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- b) **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

5) Service







- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

6) Safety instructions for reciprocating saws

- a) **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- b) **Use clamps or another practical way to secure**

and support the workpiece to a stable platform. *Holding the workpiece by hand or against your body leaves it unstable and may lead to loss of control.*



- c) **Do not operate the tool with any attachment other than those recommended** in this instruction manual.
- d) **Only use the tool with the correct voltage**, as specified in the tool label.
- e) **Never start a tool under load.** Start the tool before engaging the work piece.
- f) **Never start or operate the tool with fingers or other objects through the holes in the blades.**
- g) **Use care when handling blades during and after use.** The blades and some areas of the tool become hot in use.
- h) **Always ensure that before cutting there are no hazards such as electrical wiring, pipes or insulation in the area to be cut.**
- i) **Allow for resting periods** to ease the effect of the vibration of the tool. Use work gloves to minimise vibration effect on the body.
- j) **Ensure the dust extraction equipment is connected** and properly used.
- k) **The use of any accessory or attachment other than those recommended in this instruction manual may present a risk of personal injury.**
- l) **Do not force the tool.** It is designed to operate with moderate effort. Overheating of the drive system and motor can occur if the tool is overloaded.
- m) **Always operate the tool holding it with both hands.**


SYMBOLS The following symbols are used in this manual and marking of this tool	
	Class 2 Construction (Double Insulation used throughout, no provision for earthing.)
	Read the instruction manual
	Wear hearing protection
	Wear eye protection
	Wear breathing protection mask
	Wear gloves


VAC	volts alternating current
A	amperes
Hz	hertz
W	watt
N ₀	no load speed
/min	Reciprocations per minute
dB	decibels
Nm	newton metres
m	metres
m/s	metres per second
mm	millimetres
kg-m	kilogram metres
ft-lb	foot pounds


3. FUNCTIONAL DESCRIPTION

1) AS200X tool description

The AS200X is a double reciprocating saw designed to cut rigid materials such as mortar, clay fired bricks, plasterboard, fibreboard. The AS200X uses a variety of blades to suit the material being cut. Blades can be changed, as shown on the diagrams at  to , to suit the required depth or length of cut.

The tool is supplied with a dust boot which can easily be attached by the user following the instruction diagram .

The blades are driven via a belt drive designed to allow some slip in case of the blades jamming. **If excessive belt slipping occurs, re-tension the belt as shown on the diagrams .**

The top and rear handle are designed for comfort when used in a variety of cutting orientations. For better handling in various cutting applications, the top handle can be repositioned as shown on the diagrams at .

2) Blade description

The AS200X uses a variety of blades to cut different materials and different profiles.

General Purpose blades use Tungsten Carbide teeth and are suited for working general masonry. General Purpose blades are designed to cut to a depth of 110mm (4 3/8").



Plunge blades use Tungsten Carbide teeth and have a maximum cutting depth of 120mm (4 3/4"). Mortar plunge blades



can cut slots of 75mm (3") in length.

Switch Box blades use Tungsten Carbide teeth and have a maximum cutting depth of 120mm (4 3/4"). Suitable for installing small electrical switch boxes into plaster, brick/masonry walls.



Heritage Blades Ideal for mortar removal on thin joints and heritage restoration and have a maximum cutting depth of 75mm (3").



Head joint Blades Ideal for mortar removal on vertical joints and have a maximum cutting depth of 75mm (3").



Caulking Blades Ideal to remove caulking between concrete panels e.g. tilt up, parking lots. *Available in 3 widths (1/2", 1" and 2").



XL General Purpose Blades Cutting depth up to 170mm (6 3/4") without overcutting.



Tuckpointing Blades Used for removing the mortar between bricks in restoration work. Max. cutting Depth 35mm (1 3/8")



NOTE: Blades are a wearing part. In normal operation, blade life may vary with the hardness of materials cut.

4. OPERATION

1) Setup



WARNING: It is recommended that the tool always be supplied via a residual current device with a rated residual current of 30mA or less.

The AS200X is supplied in a case with blades and the dust boot detached from the tool. Mount the blades and the dust boot before using the tool following the instruction diagrams. Make sure the blades are locked in before switching the tool on.


NOTE: Always use matched pairs of blades. Never mix used blades with new blades



CAUTION: Do not operate the tool if the

blades are loose. Operation with loose blades will severely **damage the blade mount requiring repair.**

2) Dust extraction

The AS200X should be fitted with a Dust Boot as shown in diagram , and used with a dust extraction vacuum. The Dust Boot significantly reduces airborne dust exposure to the user and bystanders. The Dust Boot can be fitted and removed from the AS200X without tools, and with the blades mounted. See the instruction diagrams how to fit the Dust Boot.

The Vacuum Bracket (Item 7) on the underside of the AS200X is designed to accommodate standard dust extraction vacuums including a 35mm (1 3/8") diameter tapered vacuum and a 38mm (1 1/2") diameter vacuum fitting. Use an appropriate dust extraction system or vacuum intended for masonry dust.

NOTE: Failure to use the Dust Boot when cutting masonry materials will cause excessive wear of electrical components. Damage caused by dust will lead to premature failure of the motor, which will affect the warranty.



CAUTION: Verify that the vacuum machine being used has a filter system appropriate for the material being cut. Incorrect filtration can result in inadequate dust control and also possible damage to the vacuum machine.

3) SPECIFICATIONS

ITEM	SPECIFICATION
Cutting depth/width	120 mm (4 3/4")/7.2 mm (9/32"), depending on blade
Weight, with cutting blades	4.3 kg (9.5 lb)
Dimensions without blades	610 mm (24") L 75 mm (3") W 342 mm (13.5") H
No load speed N ₀	5100 rpm
Electrical rating, nominal	230 - 240VAC, 50 Hz;
Power	1500 W
Dust extraction vacuum hose interface	Suits vacuum hose with 35mm diameter internal taper fitting, or 38mm diameter external taper fitting.

3) Operation

⚠ CAUTION: During operation the AS200X may cause hand-arm vibration, which can result in fatigue or discomfort after long periods of continuous use. Vibration will increase with the hardness of material.

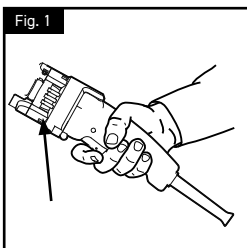
Do not operate the tool if discomfort is experienced and ensure that sufficient rest periods are taken during cutting. For further information, contact the manufacturer.

Before attempting to operate the tool, please ensure that the safety section of this manual has been consulted.

Apply protective hearing, breathing, eyes and body protection as appropriate.

With the blades secured and the tool switch OFF, plug the tool into the power socket.

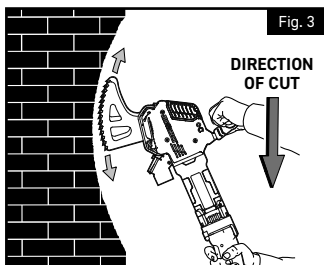
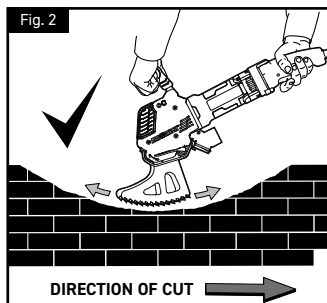
⚠ CAUTION:
Do not block the cooling intake vents or ingest dust or debris at the rear of the motor as this may cause the motor to overheat. If working in dusty conditions, it is recommended that the vents be regularly cleaned with an air blast. (See Fig. 1)



Hold the tool by both the top handle and the motor housing.

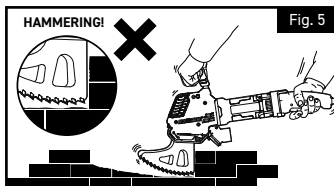
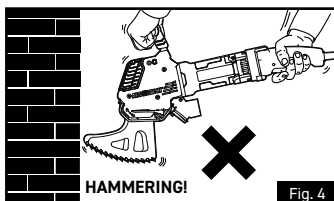
To start the cut, hold the tool firmly in your hands and turn on the power then apply the middle of the blade cutting edge to the work, keeping in mind that the direction of cut is towards the rear of the blades.

While cutting, move the tool and blade in a slow sawing motion, which improves the cut rate, reduces concentrated heat build-up and evens the wear on the blades. (See Fig.2 & 3)

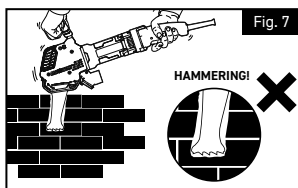
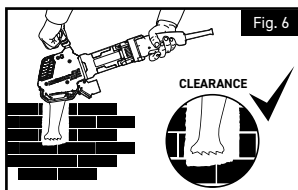


CAUTION: Do not allow the forward or rear end of the blades to hammer onto hard surfaces (shown in Fig. 4 and 5) as this will damage the blades and tool. If unintentional hammering occurs, stop the tool or withdraw it from the cut immediately.


When using any of the blade types, avoid hammering of the ends of the blades into the ends of the cut by using a slow rocking and sweeping motion. For best performance try to ensure that the teeth are the only part of the blade in contact with the workpiece.



When using the Plunge blades, the cut should have enough clearance on each end (shown in Fig. 6), to ensure that no hammering of the blade ends occurs (as shown in Fig. 7).



5. MAINTENANCE


 **WARNING:** To reduce the risk of serious personal injury, turn the tool off and disconnect tool from the power source before making any adjustments or removing/installing attachments or accessories.


Before reconnecting the tool, depress and release the trigger switch to ensure that the tool is turned off.

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment (including brush inspection and replacement) should be performed by an Arbortech authorised service centre. Always use identical replacement parts.

1) Motor

Cleaning

 **CAUTION:** Blow dust and grit out of the motor and switch actuator using clean, dry compressed air regularly. Dust and grit particles often accumulate on interior surfaces and can cause premature failure. Failure to regularly clean the AS200X will affect the tools warranty.

 **CAUTION:** Always wear safety glasses when using or cleaning this tool. Never use solvents or other harsh chemicals for cleaning the non-metallic parts of the tool. Use a clean, dry cloth only.

Accessories

To reduce the risk of injury, only ARBORTECH, accessories should be used with this product. Recommended accessories for use with your tool are available from your local dealer or authorised service centre.

Repairs

If you need any assistance in locating any accessory, or general tool query please contact ARBORTECH.

If the power cord of this power tool is damaged, replacement is necessary. Power cord replacement must be done by the manufacturer or an authorised service agent to avoid a safety hazard.

Brushes

The AS200X is fitted with auto-cut off brushes. When the brushes are worn below minimum length, they stop tool operation reducing internal motor damage. Contact your local dealer or authorised service centre for brush replacement.

2) Belt drive

CAUTION: The belt tension should be checked if frequent belt slip occurs during use. Continuing to operate the tool with a loose belt may result in poor functionality or damage to the pulleys. Replacement is required if the belt cannot be sufficiently tensioned to prevent slipping.

If tensioning is required, insert 5 mm Allen key through the slot on the right-hand plastic housing and loosen up the socket screw (one turn only), then pull it upward to increase the tension and then tighten up at the new position (see the instruction diagrams). If frequent belt slipping continues the belt replacement is required.

To replace the belt, contact your ARBORTECH authorised service centre.

3) Blades and teeth

With use, the blades will become dull and the cutting performance will decrease. Occasionally, if very hard materials are cut, or the teeth impact a hard surface at an odd angle, teeth may become chipped or broken. The blades can still be used, but cutting performance will be reduced.

If "blueing" of the blade periphery occurs, the blades are running too hot. This occurs when the blades become worn, too much force is applied, the operator does not use sufficient sweeping motion or the material is too hard.

NOTE: Using sharp blades will improve the performance and longevity of the tool.

6. WARRANTY AND SERVICE

For warranty repair, inspection, service and spare parts, please contact your place of purchase, or

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