

100mm ANGLE GRINDER

OPERATING INSTRUCTIONS

SPECIFICATIONS - MODEL NO. XAG-300

Disc Diameter: 100mm
Disc Bore Diameter: 16mm
No Load Speed: 11,000 rpm
Input Power: 500W



On-Off Switch

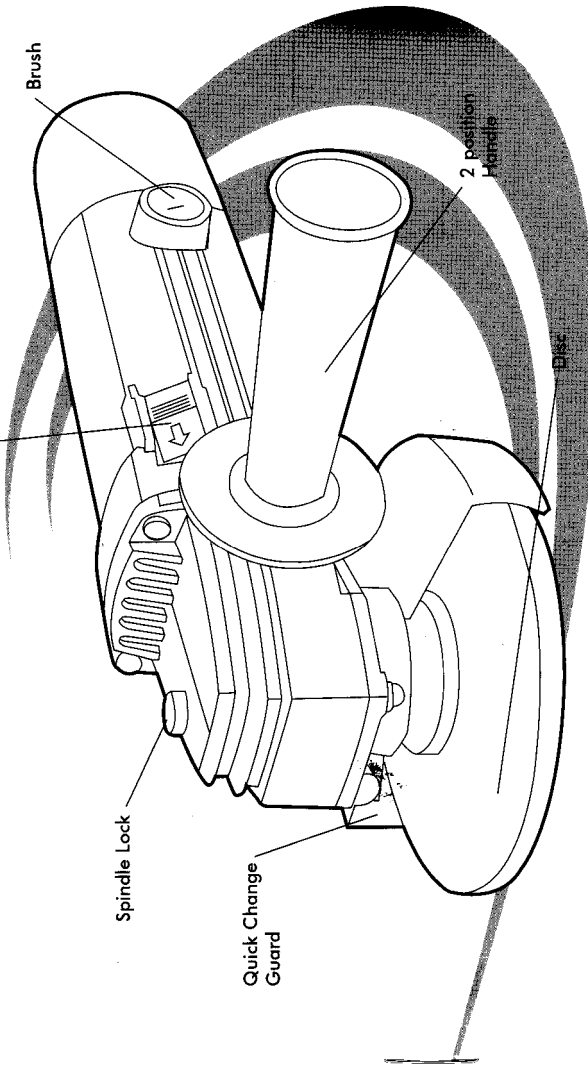
Brush

Spindle Lock

Quick Change
Guard

2 position
Handle

Disc



0209

ALWAYS WEAR EYE, FACE & EAR PROTECTION



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GENERAL USE

The 100mm angle grinder is designed to grind all types of material and has been designed for DIY (Do It Yourself) and hobbyist purposes. Select the appropriate disc depending on the type of material you are grinding or cutting. Please discuss replacement discs with your retailer.

When grinding do not force the grinder as no more force than the weight of the grinder itself should be required. If the tool should slow significantly lift it away from the surface to allow it to regain speed. Continuous use at lower speeds will result in permanent damage to your tool.

GENERAL SAFETY RULES

WARNING! Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

SAVE THESE INSTRUCTIONS

- 1) **Work area**
 - a) **Keep work area clean and well lit.** Cluttered and dark areas invite accidents.
 - b) **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.
 - c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.
- 2) **Electrical safety**
 - a) **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.
 - b) **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.
 - c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
 - d) **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.
- e) **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.

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.

GENERAL SAFETY RULES (CONT.)

- 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 and in the manner intended for the particular type of power tool, 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) **Wear eye protection.**



SAFETY INSTRUCTIONS FOR ALL OPERATIONS

Safety Warnings Common for Grinding, Sanding and Abrasive Cutting-Off Operations:

- a) This power tool is intended to function as a grinder, sanding or cut-off tool. 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.
- b) Operations such as wire brushing, or polishing are not recommended to be performed with this power tool. Operations for which the power tool was not designed may create a hazard and cause personal injury.
- c) Do not use accessories which are not specifically designed and recommended by the tool manufacturer. Just because the accessory can be attached to your power tool, it does not assure safe operation.
- d) The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool. Accessories running faster than their rated speed can break and fly apart.
- e) The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool. Incorrectly sized accessories cannot be adequately guarded or controlled.
- f) The arbour size of wheels, flanges, backing pads or any other accessory must properly fit the spindle of the power tool. Accessories with arbour holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- g) Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute. Damaged accessories will normally break apart during this test time.

- h) Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- i) Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment. Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
- j) Hold power tool by insulated gripping surfaces only, 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 shock the operator.
- k) Position the cord clear of the spinning accessory. If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
- l) Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface and pull the power tool out of your control.
- m) Do not run the power tool while carrying it at your side. Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- n) Regularly clean the power tool's air vents. The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- o) Do not operate the power tool near flammable materials. Sparks could ignite these materials.
- p) Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock.

KICKBACK AND RELATED WARNINGS

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding.

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up. The operator can control torque reactions or kickback forces, if proper precautions are taken.
- Never place your hand near the rotating accessory. Accessory may kickback over your hand.
- Do not position your body in the area where power tool will move if kickback occurs. Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
- Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory. Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
- Do not attach a saw chain woodcarving blade or toothed saw blade. Such blades create frequent kickback and loss of control.

ADDITIONAL SAFETY INSTRUCTIONS FOR GRINDING AND CUTTING-OFF OPERATIONS

Safety Warnings Specific for Grinding and Abrasive Cutting-Off Operations:

- Use only wheel types that are recommended for your power tool and the specific guard designed for the selected wheel. Wheels for which the power tool was not designed cannot be adequately guarded and are unsafe.
- The guard must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator. The guard helps to protect operator from broken wheel fragments and accidental contact with wheel.
- Wheels must be used only for recommended applications. For example: do not grind with the side of cut-off wheel. Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.

ADDITIONAL SAFETY INSTRUCTIONS FOR CUTTING-OFF OPERATIONS

Additional Safety Warnings Specific for Abrasive Cutting-Off Operations:

- Do not "jam" the cut-off wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut. Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.

ADDITIONAL SAFETY INSTRUCTIONS FOR CUTTING-OFF OPERATIONS (CONT.)

- When wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the cut-off wheel from the cut while the wheel is in motion otherwise kickback may occur. Investigate and take corrective action to eliminate the cause of wheel binding.
- Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully reenter the cut. The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.

- Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback. Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.
- Use extra caution when making a "pocket cut" into existing walls or other blind areas. The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.

ADDITIONAL SAFETY INSTRUCTIONS FOR SANDING OPERATIONS

Safety Warnings Specific for Sanding Operations:

- Do not use excessively oversized sanding disc paper. Follow manufacturers recommendations, when selecting sanding paper. Larger sanding paper extending beyond the sanding pad presents a laceration hazard and may cause snagging, tearing of the disc or kickback.

ASSEMBLY AND INSTRUCTIONS

BE SURE TO DISCONNECT THE ANGLE GRINDER FROM THE POWER SUPPLY BEFORE ATTACHING OR REMOVING THE DISC OR ATTACHMENT.

MAKE SURE THAT A GRINDING OR CUTTING DISC IS MOUNTED WITH THE LABEL ON TOP OR FACING THE ANGLE GRINDER.

IF YOU ARE FITTING ANY OTHER KIND OF ATTACHMENT, REFER TO ATTACHMENT FITMENT INSTRUCTIONS. XU1 TOOLS WILL NOT BE RESPONSIBLE FOR ANY DAMAGE OR INJURY CAUSED DUE TO THE INCORRECT FITMENT OF GRINDING OR CUTTING DISCS OR ANY OTHER KIND OF ATTACHMENT. INCORRECT ATTACHMENTS CAN CAUSE THE MOTOR TO BURN OUT. GENERALLY DAMAGE THE TOOL OR CAUSE INJURY.

Attaching and removing the grinding disc provided:

- Inspect the disc before fitting and during use to ensure it is not deformed or cracked.
- Ensure that the guard is fitted and at an angle which ensures it is between you and the grinding disc. The guard is there to protect you from dislodging objects at the work piece and from accidental contact with the disc, of your hand, fingers or other parts of yourself.
- Do not fit or use a grinding disc for cutting applications – For cutting, use a cutting disc and ask your hardware retailer for advice regarding the type of material you wish to cut. Grinding discs are used for grinding metal only.

- The grinding disc provided is not solid. It is made from grit which is bonded together with reinforcement and adhesives. It is always possible that a part of the disc can dislodge and fly away from the tool at high speed. This is why you must wear the appropriate safety equipment (glasses, gloves and protective clothing) described herein and follow all safety instructions also described herein.
- Do not use any kind of attachment (discs or otherwise) that has a diameter of greater than 100mm.

- Remove the outside retaining flange by hand if loose. If tight, depress the spindle lock button at the top of the gear box housing, rotate the spindle to locate the lock position. Once the spindle is locked and cannot be rotated, use the wrench supplied to loosen the retaining flange.

- Remove the grinding disc from its envelope.
- Holding the angle grinder with the spindle facing upwards, ensure the non threaded flange is on the spindle and located correctly. The two machined flat sections on one side of the non threaded flange must face the angle grinder and locate in the appropriate position on the spindle.

ASSEMBLY AND INSTRUCTIONS (CONT.)

- Insert the grinding disc onto the angle grinder spindle with the disc label facing the angle grinder. The hole in the disc should be located onto the spindle. Ensure that the hole in the disc locates and fits firmly into the ring section of the non threaded flange.
- Screw the threaded flange onto the spindle with the protruding ring section facing the angle grinder. This ring section must locate with the hole in the grinding disc.
- Tighten the threaded flange by locking the spindle and tighten with the spanner provided.
- Removal of the disc is conducted in reverse order to the above.
- Regularly check that the disc retaining flange has not loosened during use.

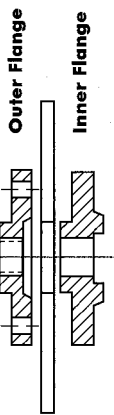
Note:

- When fitting a cutting disc, the ring section on outer flanges should face away from the disc.
- When fitting the wire wheel, the ring section on the outer flange should face into the wheel.

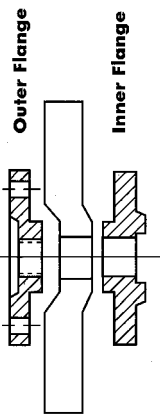
Fitting of Sanding Accessory:

- Thread backing wheel onto grinder first.
- Select the grit of paper that you wish to use.
- Place grit on wheel and then thread the paper retaining nut on and tighten using spanner and spindle lock.

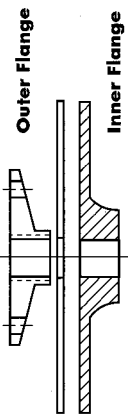
For use with cutting disc



For use with grinding disc and wire wheel



For use with sandpaper



SAFE USE AND OPERATION OF THE GRINDER

- Don't expose the tool to rain or snow. Don't use the tool in damp locations or in an environment with explosive or corrosive gas.
- Keep your work area well lit.
- Make sure you are well balanced when using the tool and you have secure footing. Don't use the tool when you are tired.
- Keep long hair away from the grinder.
- Always inspect the grinder before use – have any damage repaired by a power tool repairer.
- Make sure the disc is not contacting the workpiece before the switch is turned on.
- Keep the guard in place.
- Use only discs having a maximum operating speed at least as high as "No Load Speed" marked on the nameplate.
- Check the disc carefully for cracks or damage before operation. Replace cracked or damaged discs immediately.
- Be careful not to damage the spindle or either of the disc flanges. Damage to these parts could result in disc breakage.
- Hold the tool firmly
- Before using the tool on an actual workpiece, let it run for a while. Watch for vibration or wobbling that could indicate poor installation of the disc or a poorly balanced disc.
- Use only discs designed for each specified function and purpose. Do not use cutting discs for grinding or metal wheels on masonry.
- Watch out for flying sparks. Hold the tool at an angle of approximately 15°-30° to the workpiece surface.
- It should never be necessary to force the tool. If rotational speed drops abnormally the pressure should be released immediately. Little more than the weight of the tool should be applied. Forcing and excessive pressure can cause dangerous disc breakage or damage to the tool.

MAINTENANCE

1. When not in use the grinder should be stored in a dry, frost free location not within the reach of children.
2. Keep ventilation slots of the grinder clean at all times and prevent any foreign matter from entering.
3. If the enclosure of the grinder requires cleaning do not use solvents but a moist soft cloth only.
4. The grease in the gearbox will require replacement/replenishment after extensive use of the grinder.

Please see a power tool repairer to provide this service.

5. Regularly check the carbon brushes. Brushes should be replaced before they wear out. Both brushes should be replaced at the same time.

Note: XU1 Tools will not be responsible for any damage or injuries caused by repair of the grinder by an unauthorised person or by mishandling of the tool.

WARRANTY

THIS WARRANTY FORM SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

PURCHASED FROM: _____

DATE PURCHASED: _____

The warranty is only made available by returning the tool to the place of purchase with a confirmed register receipt.

12 MONTH REPLACEMENT WARRANTY

Your XU1 tool is covered by a 12 month replacement warranty from the date of purchase. Industrial or high frequency use will void this warranty. The warranty covers faulty parts or workmanship.

WARNING

The following actions will result in the warranty being void.

- If the tool has been operated on a supply voltage other than that specified on the unit.
- If the tool shows signs of damage or defects caused by or resulting from abuse accidents or alterations.
- If the tool has been disassembled or tampered with in any way.

*Warranty excludes consumable parts such as brushes, batteries, sanding pads, blades, discs and drill bits.