KYOCERa

AC3561

(GB) OWNER'S OPERATING MANUAL



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THANK YOU FOR BUYING OUR PRODUCT.

To ensure your safety and satisfaction, carefully read through this OWNER'S MANUAL before using the product.

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 mainsoperated (corded) power tool or battery-operated (cordless) power tool

1) Work area safety

- a) Keep work area clean and well lit. Cluttered or dark areas invite accidents. b) Do not operate power tools in explosive atmos-
- pheres, such as in the presence of flammable liq-uids, gases or dust. Power tools create sparks which may ignite the dust or fumes. c) Keep children and bystanders away while operat-
- ing a power tool. Distractions can cause you to lose

2) Electrical safety

- a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapt-er plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock
- Avoid body contact with earthed or grounded faces, such as pipes, radiators, ranges and refrig-erators. 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 f) 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

- 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 at-tached to a rotating part of the power tool may result in
- e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- power tool in unexpected situations.
 f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing 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 dust collection can reduce dust-related hazards.
 b) Do not let familiarity agined from frequent use of
- h) Do not let familiarity gained from frequent use of
- tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

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

Cut-off machine safety warnings a) Position yourself and bystanders away from the plane of the rotating wheel. The guard helps to protect the operator from broken wheel fragments and accidental contact with wheel.

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- b) Use only bonded reinforced cut-off wheels for your power tool. Just because an accessory can be attached to your power tool, it does not assure safe operation
- c) 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
- d) Wheels must be used only for recommended applications. For example: do not grind with the side of a cut-off wheel. Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.
- e) Always use undamaged wheel flanges that are of correct diameter for your selected wheel. Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage
- f) The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool. Incorrectly sized accessories can-
- not be adequately guarded or controlled. g) The arbour size of wheels and flanges must properly fit the spindle of the power tool. Wheels and flanges 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. Do not use damaged wheels Before each

- m) Do not operate the power tool near flammable materials. Do not operate the power tool while placed on a combustible surface such as wood. Sparks could ignite these materials.
- n) 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. Pinching or snagging causes rapid stalling of the rotating wheel which in turn causes the uncontrolled cutting unit to be forced upwards toward the operator.

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. 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.

- a) Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. The operator can control upward kickback forces, if proper precautions are taken
- b) Do not position your body in line with the rotating wheel. If kickback occurs, it will propel the cutting unit upwards toward the operator.
- c) Do not attach a saw chain, woodcarving blade. segmented diamond wheel with a peripheral gap greater than 10 mm or toothed saw blade. Such les create frequent kickback and loss of

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 mo-ment 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) Disconnect the plug from the power source and/ or remove the battery pack, if detachable, 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.
 - or untrained users.
 e) Maintain power tools and accessories. Check for misalignment or binding of moving parts, break-age of parts and any other condition that may af-fect the power tool's 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 mainlikely 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 hazard ous situatior
 - 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.

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.

- - inspect the wheels for chips and cracks. If the power tool or wheel is dropped, inspect for damage or install an undamaged wheel. After inspecting and installing the wheel, position yourself and bystanders away from the plane of the rotating wheel and run the power tool at maximum no load speed for one minute. Damaged wheels will normally break apart during this test time.
 - i) Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and shop apron capa-ble of stopping small abrasive or workpiece fragments. The eye protection must be capable of stop ping flying debris generated by various operations The dust mask or respirator must be capable of filtrat ing particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
 - j) 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 wheel may fly away and cause iniury beyond immediate area of operation.
 - 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 wheel
 - I) Regularly clean the power tool's air vents. The motor's fan can draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.

- d) Do not "jam" the 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 break-
- e) When the wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the cutting unit motionless until the wheel comes to a complete stop. Never attempt to remove the 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.
- f) Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully re-enter the cut. The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.
- g) Support 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.







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INSTRUCTIONS FOR SAFE HANDLING

- 1. Make sure that the tool is only connected to the voltage marked on the name plate.
- 2. Never use the tool if its cover or any bolts are missing. If the cover or bolts have been removed, replace them prior to use. Maintain all parts in good working order. 3. Always secure tools when working in elevated posi-
- tions 4. Never touch the blade or other moving parts during
- use. 5. Never start a tool when its rotating component is in
- contact with the workpiece. 6. Never lay a tool down before its moving parts have
- come to a complete stop. 7. ACCESSORIES : The use of accessories or attach-ments other than those recommended in these instructions might present a hazard.
 REPLACEMENT PARTS : When servicing, use only
- identical replacement parts.

DESCRIPTION

1. Switch	14. Flange collar
Lock button	15. Flange
Safety cover	16. Base
Safety guard	17. Hex. head bolt
5. Stopper	18. Hex. nut
6. Lever	19. Protector
Vise handle	20. Spring
Quick lock-release vise	21. Hook
Stationary vise	22. Chain
10. Hex. head bolt	23. Wing bolt
Hex. head bolt	24. Wrench storage
12. Cut-off wheel	25. Wrench (Accessory)
13. Gear shaft	

SPECIFICATIONS

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Wheel diameter	355 X 25.4 mm (14" x 1")
Vise angle	0° - 45°
Input	2,300W
No load speed	3,600 min ⁻¹
Net weight	16 kg (35.2 lbs.)
Max cutting dimensions	,

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90°	120mm (4-3/4")	120mm (4-3/4")	75X211mm (2-31/32"X8-5/162)	130mm (5-1/8")			
45°	102mm (4")	102mm (4")	75X130mm (2-31/32"X8-5/162)	92mm (3-17/32")			

STANDARD ACCESSORIES Cut-off Wheel, Wrench

APPLICATIONS

(Use only for the purposes listed below.) 1. Cutting mild steel pipe, angle steel and metal siding

EXTENSION CORDS

When using a power tool at a considerable distance from a power source, use an extension cord heavy enough to carry the current that the tool will draw. An undersized extension cord will cause a drop in line voltage, resulting in a loss of power and overheating. When working with the tool outdoors, use an extension cord

that is designed for outside use.

Before using an extension cord, inspect it for loose or exposed wires and cut or worn insulation.

CAUTION!

Keep the cord away from the cutting area and position the cord so that it will not be caught on material, tools, or other objects during cutting.

ELECTRICAL CONNECTION

The tool should be connected only to a power source that satisfies the power input listed on the tool's nameplates. Never operate the tool on direct current (DC) or current that is lower or higher than the specified voltage. A voltage drop of more than 10 percent will cause a loss of power and overheating. If the tool does not operate when plugged into an outlet, double-check the power supply rating.

CHAIN (Fig. 1)

The tool is supplied with a chain for fixing the handle in place for transportation and storage. When using the tool, remove the chain (22) from the hook (21) by lowering the handle slightly.

SWITCH (Fig. 2)

This tool starts and stops by depressing and releasing the switch (1)

For continuous operation, press the lock button (2) while switch is depressed. Depress again to release the lock.

MOUNTING AND REMOVING OF CUT-OFF WHEEL (Fig. 3, 4, 5, 6)

WARNING!

Always disconnect the tool from power source before mounting or removing cut-off wheels.

REMOVING

- 1. Loosen the wing bolt (23) and turn up the safety cover (3)
- Loosen the wing bolt (25) and turn the cut-off wheel (12) slowly by hand until the gear shaft (13) is locked.
 Loosen the hex. head bolt (17) by using the wrench.
 Remove the hex. head bolt (17), flange (15) and cut-off wheel (12)
- wheel (12).

MOUNTING

- 1. Thoroughly remove dust from the flanges and bolt, then mount the wheel by following the removing procedures in reverse order.
- 2. After tightening the hex. head bolt, be sure to check the stopper turn back its original position. 3. Be sure to attach the safety cover at the end.
 - NOTE!

Make sure that the cut-off wheel rotation is correct.

Always disconnect the tool from power source before

Loosen the two hex. head bolts (11) with the provided wrench (25 : 17mm), and move the stationary vise (9). After moving the vise, firmly tighten the two hex. head bolts to fix it in place. Move the vise to match the width of the workpiece you are cutting.

easy and fast clamping of the material.

CUTTING ANGLE (Fig. 9, 10)

- The stationary vise (9) can be adjusted from 0° to 45°. 1. Loosen the two hex. head bolts (11) on the vise, then
- set the stationary vise at the desired angle 2. After setting the angle, securely tighten the two hex

ADJUSTABLE DEPTH STOP BOLT (Fig. 11)

MAINTENANCE

- 3 -

After use, check the tool to make sure that it is in top condition.

Service Center for a thorough cleaning and lubrication at

DO NOT MAKE ANY ADJUSTMENTS WHILE THE MOTOR IS IN MOTION.

ALWAYS DISCONNECT THE POWER CORD FROM THE RECEPTACLE BEFORE CHANGING REMOVABLE OR EXPENDABLE PARTS (BLADE, BIT, SANDING PAPER ETC.), LUBRICATING OR WORKING ON THE UNIT.

WARNING!

To ensure safety and reliability, all repairs should be performed by an AUTHORIZED SERVICE CENTER or other QUALIFIED SERVICE ORGANIZATION.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

SWARNING To reduce the risk of injury, user must read instruction manual '

- WARNING Always wear eye protection "
- Class II construction tool in which protection against electric shock does not rely on basic insulation only, but in which additional safety precaution, such as double insulation or reinforced insulation, are

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making any adjustment.

MOVING THE STATIONARY VISE (Fig. 7) When cutting a wide workpiece, move the stationary vise (9)

SETTING QUICK LOCK-RELEASE VISE (Fig. 8) This tool is equipped with the quick lock-release vise (8) for

When opening the quick lock-release vise, pick up the lever (6) and pull back the vise handle (7).

When clamping the workpiece, push forward the vise handle until the vise touches the workpiece and then securely tighten the vise handle.

head bolts

HOW TO USE THE VISE WARNING!

It is recommended that you take this tool to an Authorized

least once per year.



prevents

workbench or ground. When the wheel reduced outer diameter, set the depth stop deeper. When changing to a new wheel, the depth stop must always be set back to the original position.

Always check a wheel does not touch the workbench or around and a power cord isn't under this tool before using. Always adjust the depth stop properly so that the wheel should not touch the ground.

ADJUSTING THE DEPTH STOP

boosen the hex. nut (18) with the wrench (25 : 13mm) provided. After adjusting depth of hex. head bolt (10) to the desired position, tighten the hex. nut.

OPERATING

WARNING!

Always wear safety glasses when operating the cut-off machine.

WARNING!

Securely fix the workpiece to be cut by using the vise.

CUTTING

When cut-off wheel comes up to full speed, push the handle to begin cutting. IT IS IMPORTANT TO CUT WITH STEADY AND EVEN PRESSURE(DO NOT FORCE) IN ORDER TO OBTAIN A UNIFORM CUT.

(Note)

Please remove any dust, and apply grease or oil onto the spring (20) when the action of the spring (20) becomes slow. (Fig.12)

provided.