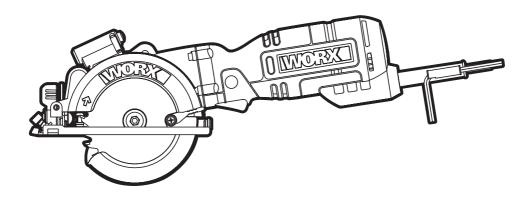
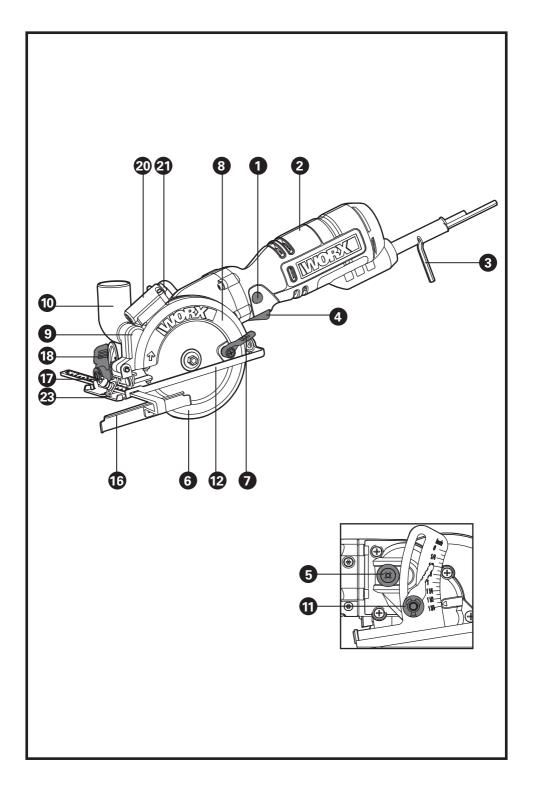
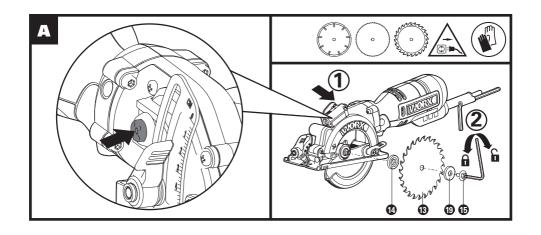
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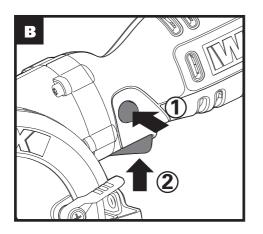


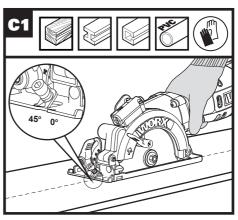


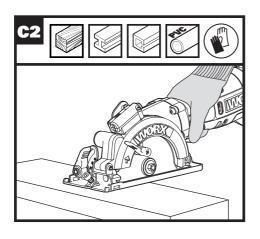
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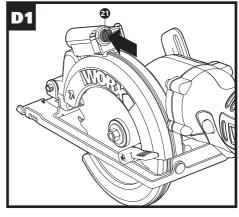


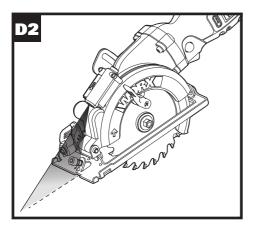


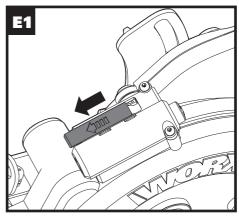


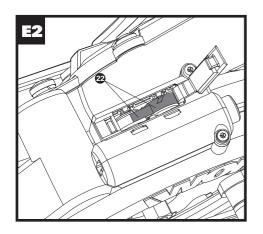


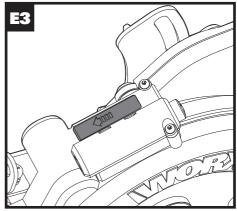


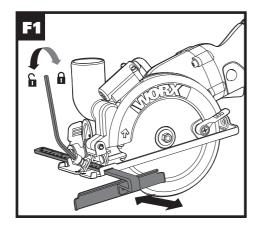


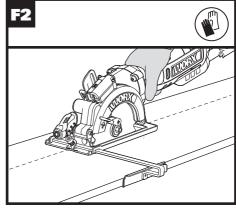


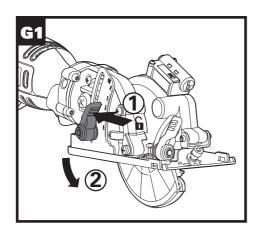


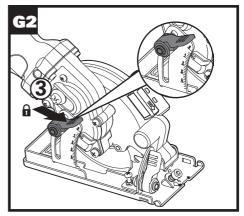


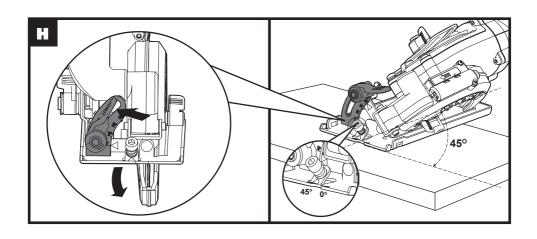


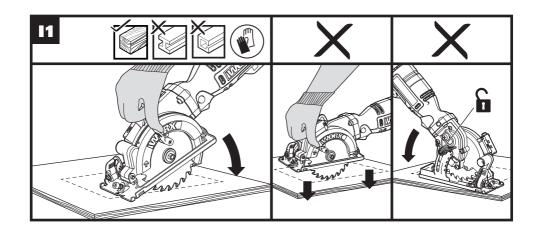


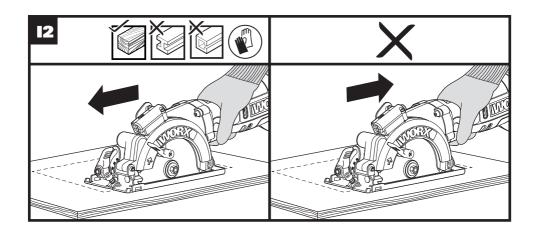


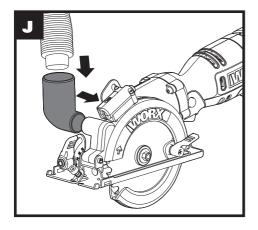












# **COMPONENT LIST**

- 1. Lock Off Button
- 2. Soft Grip Handle
- 3. Hex Key
- 4. On/Off Switch
- 5. Spindle Lock Button
- 6. Lower Blade Guard
- 7. Lower Guard Lever
- 8. Fixed Upper Guard
- 10. Vacuum Adapter
- 11. Depth Adjustment Lever

**Dust Extraction Outlet** 

12. Base Plate

9.

- 13. Saw Blade (See Fig. A)
- 14. Inner Flange (See Fig. A)
- 15. Blade Bolt (See Fig. A)
- 16. Parallel Guide
- 17. Parallel Guide Clamping Fixture
- 18. Bevel Adjustment Lever
- 19. Outer Flange (See Fig. A)
- 20. Laser
- 21. Laser On-Off Switch
- 22. Laser Batteries (Two) (See Fig. E2)
- 23. Blade Alignment Indicator

Not all the accessories illustrated or described are included in standard delivery.

# **TECHNICAL DATA**

Type WU427.1 (4 - designation of machinery, representative of Saw)

 $\begin{tabular}{lll} Voltage & 230-240V \sim 50 Hz \\ Rated power & 710W \end{tabular}$ 

No load (rated) speed 3700/min

 Blade size
 TCT blade
 120mmx9.5mmx1.2mmx24T

 HSS blade
 115mmx9.5mmx1.2mmx60T

Diamond disc 115mmx9.5mmx1.6mmx60G

Cutting capacity

Cutting Depth at 90°

46mm

Cutting Depth at 45° 30mm
Arbor size 9.5mm

Recommended maximum material thickness Wood 46mm

Aluminum 2.5mm

PVC pipe (diameter) 46mm

Tile 12mm

Sheet steel 0.5mm

Bare tool weight 2.3kg

# **NOISE INFORMATION**

A weighted sound pressure A weighted sound power

K<sub>PA</sub>& K<sub>WA</sub>

Protection class

Wear ear protection.

L<sub>pA</sub>: 76dB(A) L<sub>wA</sub>: 87dB(A) 3.0dB(A)

# VIBRATION INFORMATION

Vibration total values (triax vector sum) determined according to EN 60745:			
Vibration emission value:	Cutting wood: $a_{h,W} = 6.82 \text{m/s}^2$		
	Uncertainty K = 1.5m/s <sup>2</sup>		
	Cutting metal: a <sub>h,M</sub> = 5.63m/s <sup>2</sup>		
	Uncertainty K = 1.5m/s <sup>2</sup>		

Marning: The vibration emission value during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used dependant on the following examples and other variations on how the tool is used:

How the tool is used and the materials being cut or drilled.

The tool being in good condition and well maintained

The use the correct accessory for the tool and ensuring it is sharp and in good condition.

The tightness of the grip on the handles and if any anti vibration accessories are used.

And the tool is being used as intended by its design and these instructions.

## This tool may cause hand-arm vibration syndrome if its use is not adequately managed.

**Warning:** To be accurate, an estimation of exposure level in the actual conditions of use should also take account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Helping to minimise your vibration exposure risk.

ALWAYS use sharp chisels, drills and blades

Maintain this tool in accordance with these instructions and keep well lubricated (where appropriate) If the tool is to be used regularly then invest in anti vibration accessories.

Avoid using tools in temperatures of 10°C or less

Plan your work schedule to spread any high vibration tool use across a number of days.

# **ACCESSORIES**

TCT blade: 24T for wood (WA5076)	1
HSS blade: 60T for thin sheet steel and aluminum, PVC pipe, plastic (WA5077)	1
Diamond disc: 60G for concrete, marble, tile, cement backerboard (WA5078)	1
Parallel guide	1
Vacuum adaptor	1
Hex key	1

We recommend that you purchase your accessories from the same store that sold you the tool. Use good quality accessories marked with a well-known brand name. Choose the type according to the work you intend to undertake. Refer to the accessory packaging for further details. Store personnel can assist you and offer advice.

# SAFETY INSTRUCTIONS FOR ALL SAWS

### **CUTTING PROCEDURES**

- b) Do not reach underneath the workpiece. The guard cannot protect you from the blade below the workpiece.
- c) Adjust the cutting depth to the thickness of the workpiece. Less than a full tooth of the blade teeth should be visible below the workpiece.
- d) Never hold piece being cut in your hands or across your leg. Secure the workpiece to a stable platform. It is important to support the work properly to minimize body exposure, blade binding, or loss of control.
- e) Hold power tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will also make exposed metal parts of the power tool "live" and shock the operator.
- f) When ripping always use a rip fence or straight edge guide. This improves the accuracy of cut and reduces the chance of blade binding.
- g) Always use blades with correct size and shape (diamond versus round) of arbour holes. Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
- h) Never use damaged or incorrect blade washers or bolt. The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

# FURTHER SAFETY INSTRUCTIONS FOR ALL SAWS

#### Kickback causes and related warnings

- Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator.
- When the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back

- toward the operator.
- If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.

Kickback is the result of saw 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 saw and position your arm to resist kickback forces. Position your body to either side of the blade, but not in line with the blade. Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.
- b) When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur. Investigate and take corrective actions to eliminate the cause of blade binding.
- c) When restarting a saw in the workpiece, center the saw blade in the kerf and check that saw teeth are not engaged into the material. If saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.
- d) Support large panels to minimize the risk of blade pinching and kickback. Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.
- e) Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.
- f) Blade depth and bevel adjusting locking levers must be tight and secure before making cut. If blade adjustment shifts while cutting, it may cause binding and kickback.
- g) Use extra caution when making a "plunge cut" into existing walls or other blind areas. The protruding blade may cut objects that can cause kickback.

# SAFETY INSTRUCTIONS FOR SAWS WITH INNER PENDULUM GUARD

**Lower Guard Function** 

- a) Check lower guard for proper closing before each use. Do not operate the saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position. If saw is accidentally dropped, lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.
- b) Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use. Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.
- c) Lower guard may be retracted manually only for special cuts such as "plunge cuts" and "compound cuts." Raise lower guard by retracting handle and as soon as blade enters the material, the lower guard must be released. For all other sawing, the lower guard should operate automatically.
- d) Always observe that the lower guard is covering the blade before placing saw down on bench or floor. An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.

# ADDITIONAL SAFETY RULES FOR YOUR CIRCULAR SAW

- 1. Always wear a dust mask, hearing protection and eye protection.
- 2. Only use saw blades recommended in the specification.
- 3. Do not use any abrasive wheels.
- 4. Use only blade diameter(s) in accordance with the markings.

# SAFETY INSTRUCTIONS FOR ABRASIVE CUTTING-OFF OPERATIONS

**Cut-off machine safety warnings** 

- a) The guard provided with the tool must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator. Position yourself and bystanders away from the plane of the rotating wheel. The guard helps to protect operator from broken wheel fragments and accidental contact with wheel.
- b) Use only diamond 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 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) Do not use worn down reinforced wheels from larger power tools. Wheels intended for a larger power tool are not suitable for the higher speed of a smaller tool and may burst.
- g) 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.
- h) 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 use, inspect the wheels for chips and cracks. If 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.

- j) 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 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 filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- k) 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 injury beyond immediate area of operation.
- I) Hold the 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 could give the operator an electric shock.
- m) 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.
- n) Never lay the power tool down until the accessory has come to a complete stop. The spinning wheel may grab the surface and pull the power tool out of your control.
- o) 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.
- p) 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.
- q) Do not operate the power tool near flammable materials. Sparks could ignite these materials.

r) Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock.

# FURTHER SAFETY INSTRUCTIONS FOR ABRASIVE CUTTING-OFF OPERATIONS

### 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 power tool to be forced in the direction opposite of the wheel'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.

- a) 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.
- C) Do not position your body in line with the rotating wheel. Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
- d) 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.
- e) Do not attach a saw chain, woodcarving

- blade, segmented diamond wheel with a peripheral gap greater than 10 mm or toothed saw blade. Such blades create frequent kickback and loss of control.
- f) 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 breakage.
- g) 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 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.
- h) 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.
- i) 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.
- j) 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.

# GENERAL SAFETY WARNINGS FOR YOUR LASER

Marning: Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in serious injury.

Save all warnings and instructions for future reference.

These lasers do not normally present an optical hazard although staring at the beam may cause flash blindness.

Do not stare directly at the laser beam. A hazard may exist if you deliberately stare into

the beam, please observe all safety rules as follows:

- The laser shall be used and maintained in accordance with the manufacturer's instructions.
- 2. Never aim the beam at any person or an object other than the work piece.
- The laser beam shall not be deliberately aimed at another person and shall be prevented from being directed towards the eye of a person for longer than 0.25 seconds area.
- 4. Always ensure the laser beam is aimed at a sturdy work piece without reflective surfaces, e.g. wood or rough-coated surfaces are acceptable. Bright shiny reflective sheet steel or similar is not suitable for laser applications as the reflective surface may direct the laser beam back at the operator.
- Do not change the laser device with a different type. The manufacturer or an authorized agent must carry out repairs.
- Caution: Use of controls or adjustments other than those specified herein may result in hazardous radiation exposure.

# ADDITIONAL SAFETY WARNING FOR CLASS 2 LASER

The laser device fitted to this tool is CLASS 2 with a maximum radiation of 1.5mW and 650nm wavelength.

CLASS 2 LASER RADIATION, DO NOT STARE INTO BEAM

# **SYMBOLS**

SIMD	000		
	To reduce the risk of injury, user must read instruction manual		Wear protective gloves
	Double insulation		Wood
Ŵ	Warning		Aluminium
	Wear ear protection		Metal
	Wear eye protection	<b>PRE</b>	Plastic
	Wear dust mask		Tile
	Do not stare into beam	X	Incorrect
	Laser radiation	<b>/</b>	Correct
symbol relating to and electronic was this product shall with household with household which conforms to Directive 2002/96 recycled or dismareduce the impact Electric and elect be hazardous for for human health	This product has been marked with a symbol relating to removing electric and electronic waste. This means that		Lock
	this product shall not be discarded with household waste but that it shall be returned to a collection system which conforms to the European Directive 2002/96/CE. It will then be recycled or dismantled in order to reduce the impact on the environment. Electric and electronic equipment can be hazardous for the environment and for human health since they contain hazardous substances.	2	Unlock
			Diamond disc
		$\odot$	HSS blade
	Before any work on the machine itself, pull the mains plug from the socket outlet.	o de la constanta	TCT blade

# OPERATING INSTRUCTIONS

Note: Before using the tool, read the instruction book carefully.

#### INTENDED USE:

The tool is intended for ripping and cross-cutting wood and other materials in straight cutting lines, while resting firmly on the work piece.

# ASSEMBLY AND OPERATION

Action	Figure
Saw blade assembly and removing	See Fig. A
Safety on/off switch	See Fig. B
Cross and rip cutting	See Fig. C1, C2
Using the laser light feature	See Fig. D1,D2
Replacing laser batteries	See Fig. E1-E3
Parallel guide	See Fig. F1, F2
Cutting depth adjusting	See Fig. G1,G2
Cutting angle adjusting	See Fig. H
Pocket cutting	See Fig. I1,I2
Sawdust removal	See Fig. J

# **WORKING HINTS FOR YOUR** TOOL

If your power tool becomes too hot, please run vour circular saw no load for 2-3 minutes to cool the motor. Avoid prolonged usage at very low speeds.

Protect saw blades against impact and shock. Cutting with extreme force can significantly reduces the performance capability of the tool and reduces the service life of the saw blade. Sawing performance and cutting quality depend essentially on the condition and the tooth count of the saw blade. Therefore, use only sharp saw blades that are suited for the material being cut. Choice of blades: 24 teeth for general work, approx. 40 teeth for finer cuts, more than 40 teeth for very fine cuts into delicate surfaces, diamond for tile, cement board, etc. Only use saw blades recommended.

# **MAINTAIN TOOLS WITH** CARE

Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.

Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorized service facility. Your power tool requires no additional lubrication or maintenance. There are no user serviceable parts in your power tool. Never use water or chemical cleaners to clean your power tool. Wipe clean with a dry cloth. Always store your power tool in a dry place. Keep the motor ventilation slots clean. Keep all working controls free of dust.

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.

Periodically clear dust and chips from guard and base to ensure proper performance.

# **ENVIRONMENTAL PROTECTION**

This product has been marked with a symbol relating to removing electric and electronic waste. This means that this

product shall not be discarded with household. waste but that it shall be returned to a collection system which conforms to the European Directive 2002/96/CE. It will then be recycled or dismantled in order to reduce the impact on the environment. Electric and electronic equipment can be hazardous for the environment and for human health since they contain hazardous substances.

# **TROUBLE SHOOTING**

Symptom	Possible Causes	Possible Solution
Tool will not start when operating the on/off switch.	Power cord not plugged in. Power cord is broken. Carbon brush has worn down	Check to make sure power cord is connected well into a working outlet. Unplug the power cord. Replace it using a qualified maintenance person. Replace the carbon brush using a qualified maintenance person.
Cutting depth is less than that is set.	Sawdust accumulated at the rear of the base.	Shake out sawdust. Consider connecting a vacuum for dust collection.
Blade spins or slips	Blade is not tightly engaged with the spindle.	Remove the blade, and reassemble it as described in INSTALL/CHANGE THE BLADE section.
Blade will not cut a straight line.	Blade is dull. Blade is not mounted properly. Saw is not being guided properly.	Mount a new, sharp blade on the saw. Check that blade is properly mounted. Use a parallel guide.
Blade kicks back when beginning a cut	Blade is not spinning fast enough	Allow the saw blade to reach full speed prior to beginning a cut in the material.

# PLUG REPLACEMENT (UK & IRELAND ONLY)

If you need to replace the fitted plug then follow the instructions below.

### **IMPORTANT**

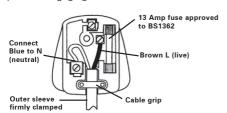
The wires in the mains lead are colored in accordance with the following code:

## BLUE =NEUTRAL Brown = Live

As the colors of the wires in the mains lead of this appliance may not correspond with the colored markings identifying the terminals in your plug, proceed as follows. The wire which is colored blue must be connected to the terminal which is marked with N. The wire which is colored brown must be connected to the terminal which is marked with L.

**WARNING!** Never connect live or neutral wires to the earth terminal of the plug. Only fit an approved 13ABS1363/A plug and the correct rated fuse.

**NOTE:** If a moulded plug is fitted and has to be removed take great care in disposing of the plug and severed cable, it must be destroyed to prevent engaging into a socket.



# DECLARATION OF CONFORMITY

We.

Positec Power Tools (Europe) Ltd, PO Box 152, Leeds. LS10 9DS. UK

Declare that the product.

Description WORX Electric Circular Saw Type WU427.1 (4-designation of machinery, representative of Saw)

Function Cutting various materials with a rotating toothed blade

Complies with the following Directives,

2006/42/EC 2004/108/EC 2011/65/EU

Standards conform to:

EN 55014-1

EN 55014-2

EN 61000-3-2

EN 61000-3-3

EN 60745-1

EN 60745-2-5

EN 60745-2-22

The person authorized to compile the technical file.

Name: Russell Nicholson

Address: Positec PowerTools (Europe) Ltd, PO

Box 152, Leeds, LS10 9DS, UK

2014/04/23 Leo Yue

POSITEC Quality Manager



## www.worx.com

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