WORXINITRO



SAFETY AND OPERATING MANUAL ORIGINAL INSTRUCTIONS



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1. PRODUCT SAFETY 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 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 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.
- 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.

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 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 dust collection 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 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 repaired.
- Disconnect the plug from the power source and/ or the battery pack from the power tool before

6) Service

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. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect 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 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.

5) Battery tool use and care

- a) Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- b) Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- c) When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- d) Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- e) Do not use a battery pack or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- f) Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130 °C may cause explosion.
- g) Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and

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.

increase the risk of fire.

b) Never service battery packs. Service of battery packs should only be performed by the manufacturer or authorized service providers.

DRILL SAFETY WARNINGS

- 1) Safety instructions for all operations
- a) Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory or fasteners may contact hidden wiring. Cutting accessory or fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- 2) Safety instructions when using long drill bits
- a) Never operate at higher speed than the maximum speed rating of the drill bit. At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
- Always start drilling at low speed and with the bit tip in contact with the workpiece. At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
- c) Apply pressure only in direct line with the bit and do not apply excessive pressure. Bits can bend causing breakage or loss of control, resulting in personal injury.

SAFETY WARNINGS FOR BATTERY PACK

- a) Do not dismantle, open or shred cells or battery pack.
- b) Do not short-circuit a battery pack. Do not store battery packs haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by conductive materials. When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- Do not expose battery pack to heat or fire. Avoid storage in direct sunlight.
- d) Do not subject battery pack to mechanical shock.
- In the event of battery leaking, do not allow the liquid to come into contact with the skin

- or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
- f) Keep battery pack clean and dry.
- Wipe the battery pack terminals with a clean dry cloth if they become dirty.
- Battery pack needs to be charged before use.
 Always refer to this instruction and use the correct charging procedure.
- i) Do not maintain battery pack on charge when not in use.
- j) After extended periods of storage, it may be necessary to charge and discharge the battery pack several times to obtain maximum performance.
- Recharge only with the charger specified by Worx. Do not use any charger other than that specifically provided for use with the equipment.
- Do not use any battery pack which is not designed for use with the equipment.
- m) Keep battery pack out of the reach of children.
- Retain the original product literature for future reference.
- Remove the battery from the equipment when not in use.
- p) Dispose of properly.
- Do not mix cells of different manufacture, capacity, size or type within a device.
- Keep the battery away from microwaves and high pressure.

SYMBOLS





Batteries may enter water cycle if disposed improperly, which can be hazardous for ecosystem. Do not dispose of waste batteries as unsorted municipal waste.



Do not burn



Wear protective gloves



Li-lon battery. This product has been marked with a symbol relating to 'separate collection' for all battery packs and battery pack. It will then be recycled or dismantled in order to reduce the impact on the environment. Battery packs can be hazardous for the environment and for human health since they contain hazardous substances.



Drilling



Screwdriving

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Great torque

<mmmmm()

Small torque



Wood



Metal



High speed

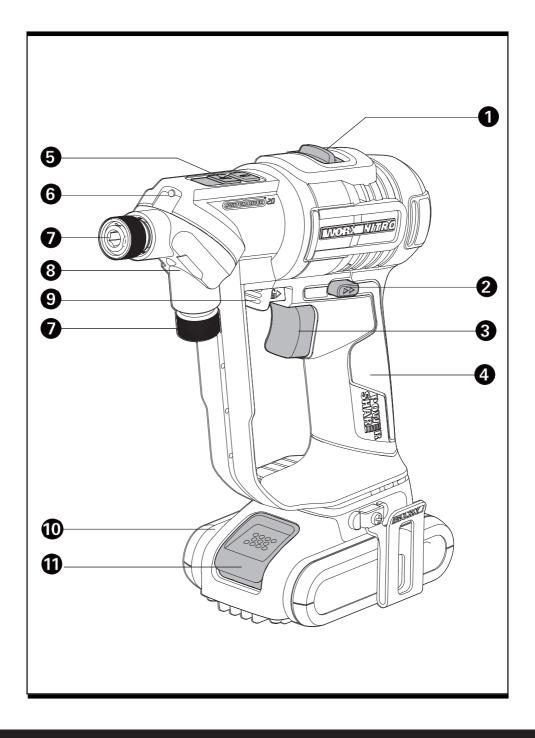


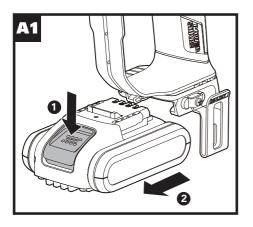
Low speed

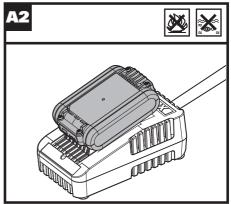
Lock

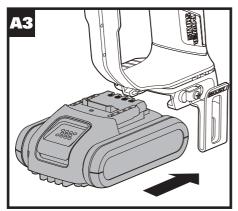


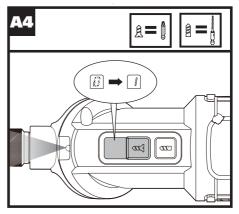
Waste electrical products must not be disposed of with household waste. Please recycle where facilities exist. Check with your local authorities or retailer for recycling advice.

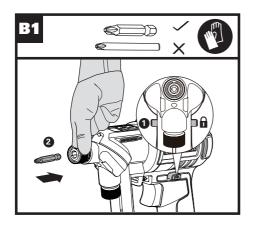


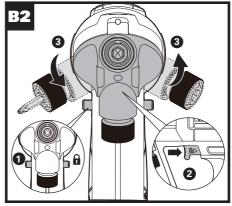


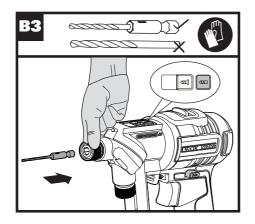


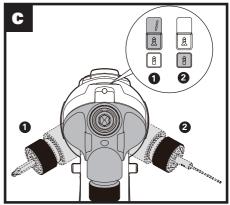


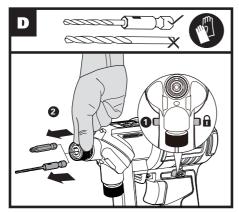


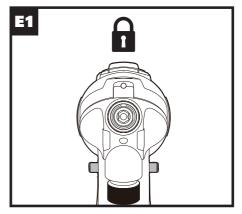


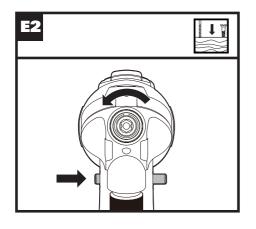


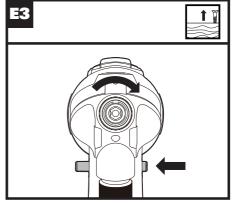


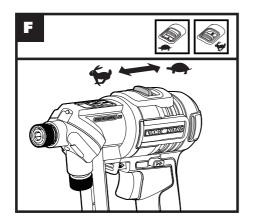


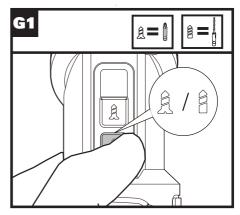


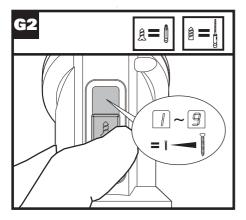


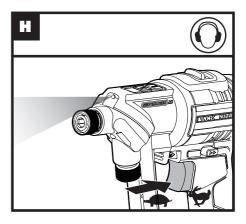


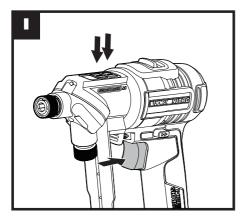












2. COMPONENT LIST

1.	TWO-SPEED GEAR CONTROL
2.	FORWARD/REVERSE ROTATION CONTROL
3.	ON/OFF SWITCH TRIGGER
4.	SOFT GRIP HANDLE
5.	ELECTRONIC TORQUE-ADJUSTING INTER- FACE
6.	LED LIGHT
7.	1/4" (6.35mm) HEX QUICK RELEASE CHUCK
8.	DUAL CHUCKS ROTATING PLATE

^{10.} BATTERY PACK*

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11. BATTERY PACK RELEASE BUTTON*

ROTATING PLATE RELEASE BUTTON

3. TECHNICAL DATA

Type WX177 WX177.X (1-designation of machinery, representative of Cordless Drill)

		WX177 WX177.X**
Rated voltage		20V Max***
No load speed		0-450/0-1700/min
Clutch positions		9+1
Max torque		50N.m
Chuck capacity		1/4" (6.35mm)
Max.	Steel	13mm
drilling capac- ity	Wood	40mm
Machine weight (bare tool)		0.82kg

^{**}X=1-999, A-Z, M1-M9 there are only used for different customers, there are no safe relevant changes between these models.

SUGGESTED BATTERIES AND CHARGERS

Category	Model	Capacity
20V Battery	WA3551	2.0 Ah
20V Charger	WA3880	2.0 A

We recommend that you purchase your accessories from the same store that sold you the tool. Refer to the accessory packaging for further details. Store personnel can assist you and offer advice.

NOISE INFORMATION

A weighted sound pressure	L _{pA} :	72dB(A)
A weighted sound power	L _{wa} :	83dB(A)
K _{PA} & K _{WA}		5dB (A)

Wear ear protection.



VIBRATION INFORMATION

Vibration total values (triax vector sum) determined according to EN 62841:

Drilling into metal	Vibration emission value ah,D = 3.37 m/s²		
-	Uncertainty K = 1.5 m/s ²		

The declared vibration total value and the declared noise emission value have been measured in accordance with a standard test method and may be used for comparing one tool with another. The declared vibration total value and the declared noise emission value may also be used in a preliminary assessment of exposure.

WARNING: The vibration and noise emissions during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used especially what kind of workpiece is processed 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 of the correct accessory for the tool and ensuring it is sharp and in good condition.

^{*}Not all the accessories illustrated or described are included in standard delivery.

^{***}Voltage measured without workload. Initial battery voltage reaches maximum of 20 volts. Nominal voltage is 18 volts.

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

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

Recommended pilot-hole size for Screws

	3mm	3.5mm	4mm	4.5mm
10	1.5mm	2mm	2.5mm	3mm

0 <u> 411</u>	5mm	6mm	8mm
	3mm	3.5mm	4mm/5mm

4. OPERATING INSTRUCTIONS

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

INTENDED USE

The machine is intended for drilling (including pilot hole) in wood, metal and plastic as well as for driving and removing fasteners.

ASSEMBLY AND **OPERATION**

ACTION	FIGURE
STARTING THE MACHINE FOR THE FIRST TIME	
Removing the Battery Pack	See Fig. A1
Charging the Battery Pack More details can be found in charger's manual	See Fig. A2
Installing the Battery Pack and Starting the Machine As you install the battery pack, the LED light will turn on, the £ light turns on, a boot screen will appear. After a while, the screen will show number"1".	See Fig. A3,A4
PREOPERATION SETUP	
Installing a 1/4" (6.35mm) hex SCREWDRIVING bit The machine is ideally inserted with one drilling bit and one screw driving bit. After you start the machine for the first time, the default mode is screw driving at torque level 1. Insert a 1/4" (6.35mm) hex SCREWDRIVING bit into the chuck locking sleeve.	See Fig. B1
Installing the DRILL bit Place forward/reverse rotation control in the middle position, push the dual chuck release button to the bottom and rotate the dual chuck. The light goes off and the light turns on. Insert a 1/4" (6.35mm) hex DRILL bit into the other chuck locking sleeve.	See Fig. B2,B3
Rotating the dual chuck enables the working mode to the corresponding bit.	See Fig. C

Removing the Bit Pull the 1/4" (6.35mm) Hex drive chuck forward to release the bitRemoving the Bits.	See Fig. D
OPERATION	
Forward/Reverse Rotation Control 1.) To lock the trigger, push the control switch to the center position. The trigger will not work when the control switch is in the locked position. (E1) 2.) For forward (clockwise) rotation, push the control switch in the direction shown. Check the direction of rotation before use. (E2) 3.) For reverse (counterclockwise) rotation, push the control switch in the direction shown. Check the direction of rotation before use. (E3) WARNING: Never change the direction of rotation when the chuck is rotating, wait until it has stopped!	See Fig. E1, E2, E3
Two-speed Gear Control Push the speed gear control switch back to "1" for low speed. Push the speed gear control switch forward to "2" for high speed. WARNING: To prevent gear damage, always allow the chuck to come to a complete stop before changing gears.	See Fig. F
Drilling/driving Mode and Torque Setting Press the drill digital keypad to toggle between screwdriving and drilling modes. Press the screwdriving digital keypad to adjust torque level. Short press for single level change, long	See Fig. G1,G2

ON/OFF SWITCH

1.) To power the tool, pull the trigger. **NOTE:** An LED is turned on when the trigger is pulled.

2.) To vary the driving speed, increase or decrease pressure on the trigger. The further the trigger is pulled, the greater the speed, up to the maximum speed set

by the speed control switch.

3.) To stop the tool, release the trigger and the electric brake stops the tool instantly.

WARNING: Do not operate for long periods at low speed, or excess internal heat will be produced.

See Fig. H

USING THE LED LIGHT

WARNING: To turn on the light, press the On/Off Switch and make sure the Forward/Reverse Rotation Control is on right/left position. LED lighting increases visibility-great for dark or enclosed area. LED is also a battery capacity indicator. It will flash when power gets low.

The tool and battery pack are equipped with a protection system. When the LED Light is quickly flashing and turn off, the system will automatically cut off power to the tool to extend battery life. The tool will automatically stop during operation if the tool and/or battery pack are placed under one of the following conditions:

• Overloaded: The tool is operated in a manner that causes it to draw an abnormally high current. In this situation, release the Trigger Switch on the tool and stop the application that caused the tool to become overloaded. Then pull the Trigger Switch again to restart

 Overheated: Under the condition above, if the tool does not start, the Tool and Battery Pack are overheated. In this situation, let the Tool and Battery Pack cool before pulling the Trigger Switch again.

• Low battery voltage: The remaining Battery capacity is too low and the tool will not operate. In this situation, remove and recharge the Battery Pack. See Fig. H

press for consecutive level change.

SLEEP MODE AND REACTIVATION

When the Switchdriver is left without any operation for 15 seconds, it will enter sleep mode automatically. By pressing $\frac{A}{2}$ / $\frac{A}{2}$ button or the on/off switch, the Switchdriver will be reactivated

See Fig. I

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. Occasionally you may see sparks through the ventilation slots. This is normal and will not damage your power tool.

5. TROUBLESHOOTING

1). THE DRILL DOES NOT TURN ON WHEN THE ON/ OFF SWITCH TRIGGER IS PULLED?

The Forward/Reverse Rotation Control, which is above the trigger, is positioned in the lock function. Unlock the Forward/Reverse Rotation Control by putting it into the required rotation position. Push the trigger and the drill will start to rotate.

2). REASONS FOR DIFFERENT BATTERY PACK WORKING TIMES

Inappropriate charging time or leaving the Battery Pack without using for a prolonged time will reduce the Battery Pack capacity. This can be corrected by charging & working with your drill several times. Heavy working conditions such as driving large screws into hard wood will use up the Battery Pack energy faster than that in lighter working conditions. Do not re-charge your Battery Pack below 0°C(32°F) and above 45°C (113°F) as this will affect performance.

The ambient temperature range for the use and storage of tool and battery is 0°C-45°C. The recommended ambient temperature range for the charging system during charging is 0°C-40°C.

3). THE DRILL CHUCK DOES NOT ACCEPT A DRILLING OR DRIVING BIT?

The SWITCHDRIVER is equipped with dual 1/4" (6.35mm) hex drive chucks and will only accept bits with a 1/4" (6.35mm) hex shank.

4). WHY DOES THE DRILL NOT WORK AFTER ROTATING THE DUAL CHUCK?

The drill can work only when the Dual Chucks Rotating Plate is in right position as shown in Fig. B2. When the Dual Chucks Rotating Plate reaches proper position, you can hear a "click" sound.

6. MAINTENANCE

Remove the battery pack from the tool before carrying out any adjustment, servicing or maintenance.

Your tool requires no additional lubrication or maintenance.

There are no user serviceable parts in your power

7. ENVIRONMENTAL PROTECTION

Waste electrical products must not be disposed of with household waste. Please recycle where facilities exist. Check with your local authorities or retailer for recycling advice.

8. DECLARATION OF CONFORMITY

We, Positec Germany GmbH Postfach 32 02 16, 50796 Cologne, Germany

Declare that the product,
Description Battery-powered Drill
Type WX177 WX177.X (1-designation of machinery,
representative of Cordless Drill)
Function Drilling/Tightening and loosening screws,
nuts

Complies with the following Directives, 2006/42/EC 2011/65/EU&(EU)2015/863 2014/30/EU

Standards conform to EN 55014-1, EN 55014-2, EN 62841-1, EN 62841-2-1

The person authorized to compile the technical file,

Name Marcel Filz Address Positec Germany GmbH

Postfach 32 02 16, 50796 Cologne, Germany

April (E

2021/10/31 Allen Ding Deputy Chief Engineer,Testing & Certification Positec Technology (China) Co., Ltd. 18, Dongwang Road, Suzhou Industrial

Park, Jiangsu 215123, P. R. China

DECLARATION OF CONFORMITY

We, Positec (UK & Ireland) Ltd. PO Box 6242, Newbury, RG14 9LT, UK

On behalf of Positec declare that the product
Description Battery-powered Drill
Type WX177 WX177.X (1-designation of machinery,
representative of Cordless Drill)
Function Drilling/Tightening and loosening screws,
nuts

Complies with the following regulations, Supply of Machinery (Safety) Regulations 2008 Electromagnetic Compatibility Regulations 2016 The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations

Standards conform to BS EN 62841-1, BS EN 62841-1, BS EN 55014-1, BS EN 55014-2

The person authorized to compile the technical file, Name: Jim Kirkwood Address:Positec (UK & Ireland) Ltd., PO Box 6242, Newbury, RG14 9LT, UK

HP CF

2021/10/31 Allen Ding Deputy Chief Engineer, Testing & Certification Positec Technology (China) Co., Ltd 18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P. R. China

WORXENITRO

After-sales Service and Application

At <u>www.worx.com</u> you can order spare parts or arrange the collection of a product in need of servicing or repair.

Tel. Service: 0345 202 9679

E-Mail: customerservices@worxtools.com

www.worx.com

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