


# **SAFETY AND OPERATING MANUAL**

## **ORIGINAL INSTRUCTIONS**

**20V Cordless Drain Auger    WX89 I WX89 I.X**

# PRODUCT SAFETY

## GENERAL 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 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.
- 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.
  - 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.
  - e) **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power 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 increase the risk of fire.*
- 6) 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.*
  - b) Never service damaged battery packs.** *Service of battery packs should only be performed by the manufacturer or authorized service providers.*

## **SAFETY INSTRUCTIONS FOR DRAIN AUGERS**

- a) Only grasp the rotating cable with gloves recommended by the manufacturer.** *Latex or loose-fitting gloves or rags can become wrapped around the cable and may result in serious personal injury.*
- b) Do not allow the cutter to stop turning while the cable is turning.** *This can overstress the cable and may cause twisting, kinking or breaking of the cable and may result in serious personal injury.*

- c) Use latex or rubber gloves inside the gloves recommended by the manufacturer, goggles, face shields, protective clothing, and respirator when chemicals, bacteria or other toxic or infectious substances are suspected to be in a drain line.** *Drains may contain chemicals, bacteria and other substances that may cause burns, be toxic or infectious or may result in other serious personal injury.*
- d) Practice good hygiene. Do not eat or smoke while handling or operating the tool. After handling or operating drain cleaning equipment, use hot, soapy water to wash hands and other body parts exposed to drain contents.** *This will help reduce the risk of health hazards due to exposure to toxic or infectious material.*
- e) Only use the drain auger for the recommended drain sizes.** *Using the wrong size drain cleaner can lead to twisting, kinking or breaking of the cable and may result 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.*
- c) Do not expose battery pack to heat or fire. Avoid storage in direct sunlight.**
- d) Do not subject battery pack to mechanical shock.**
- e) 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) Seek medical advice immediately if a cell or battery pack has been swallowed.**
- g) Keep battery pack clean and dry.**
- h) Wipe the battery pack terminals with a clean dry cloth if they become dirty.**
- i) Battery pack needs to be charged before use. Always refer to this instruction and use the correct charging procedure.**
- j) Do not maintain battery pack on charge when not in use.**
- k) After extended periods of storage, it may be necessary to charge and discharge the battery pack several times to obtain maximum performance.**
- l) Recharge only with the charger specified by Worx. Do not use any charger other than**

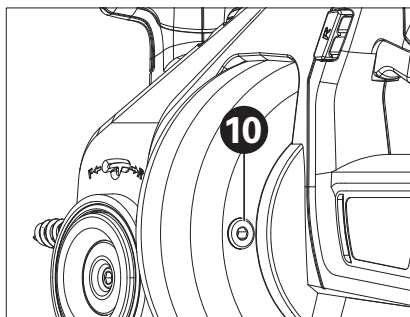
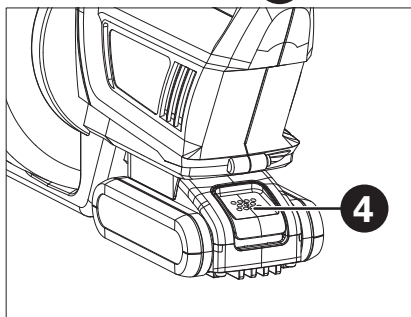
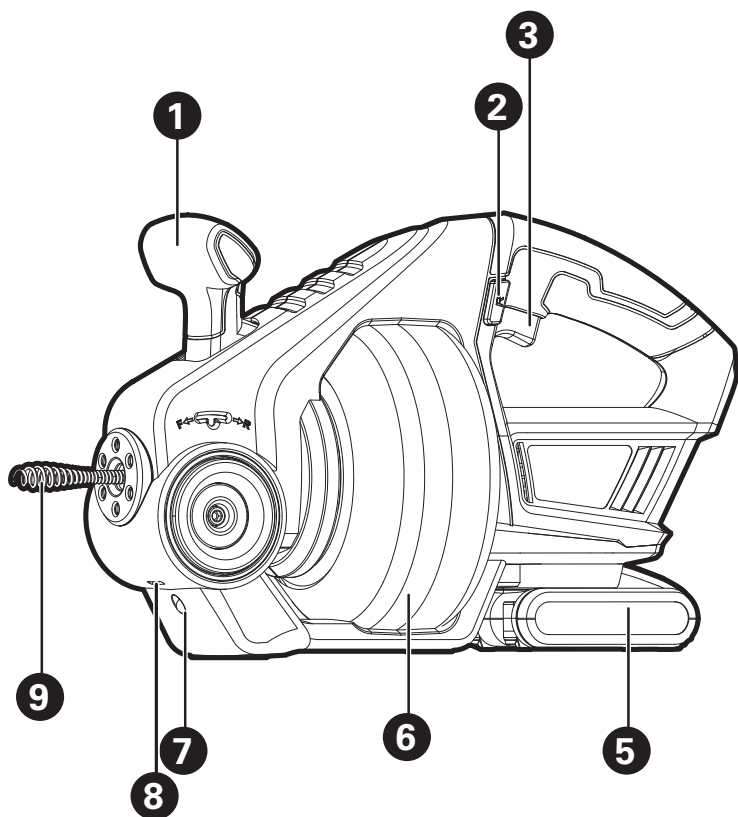
that specifically provided for use with the equipment.

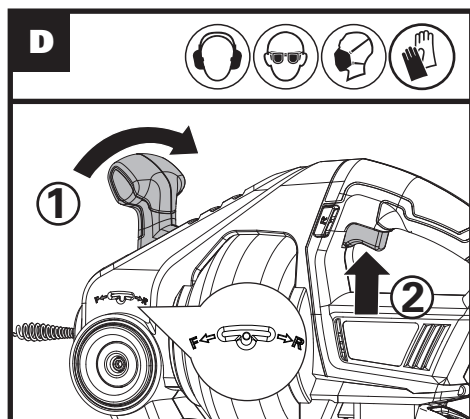
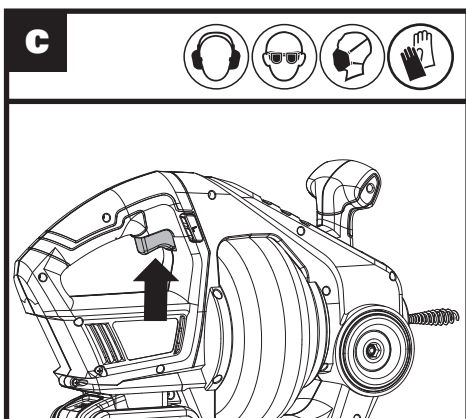
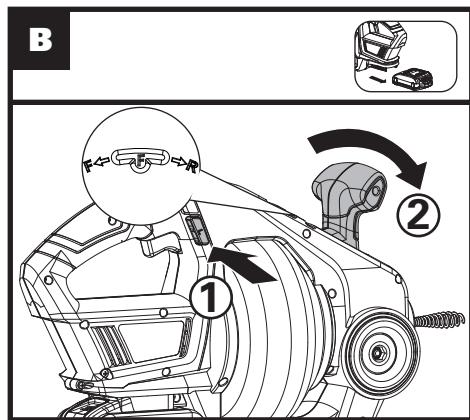
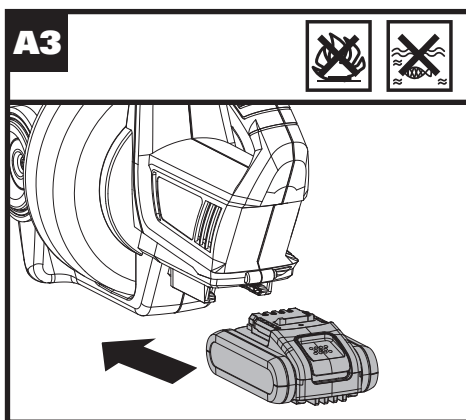
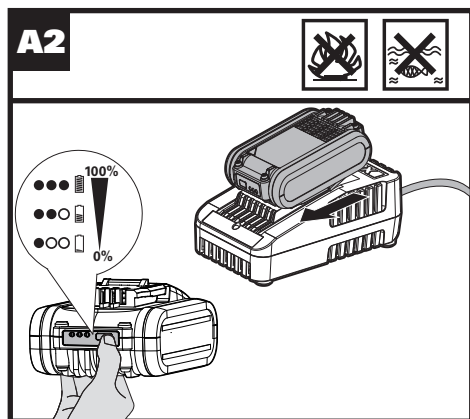
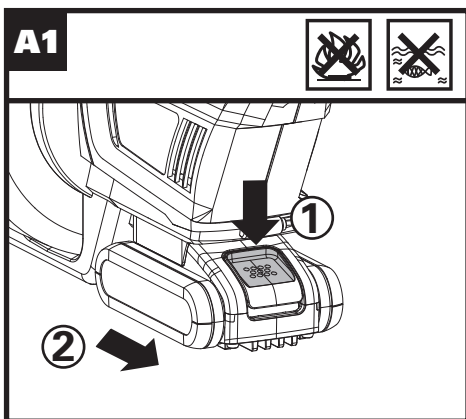
- m) **Do not use any battery pack which is not designed for use with the equipment.**
- n) **Keep battery pack out of the reach of children.**
- o) **Retain the original product literature for future reference.**
- p) **Remove the battery from the equipment when not in use.**
- q) **Dispose of properly.**
- r) **Do not mix cells of different manufacture, capacity, size or type within a device.**
- s) **Do not remove battery pack from its original packaging until required for use.**
- t) **Observe the plus (+) and minus (–) marks on the battery and ensure correct use.**

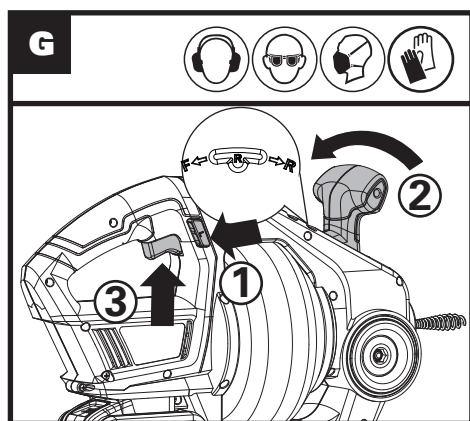
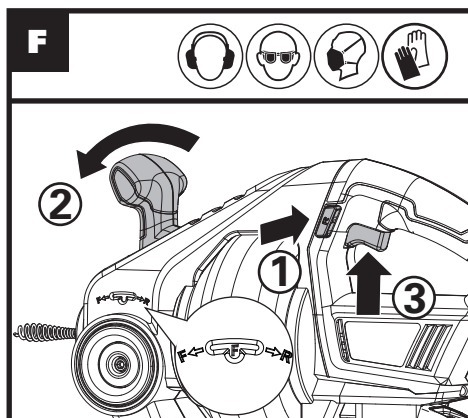
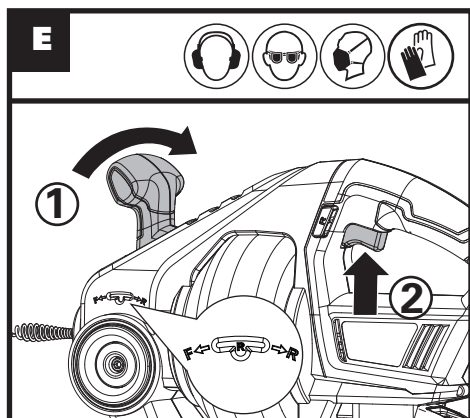
## SYMBOL

	To reduce the risk of injury, user must read instruction manual
	Warning
	Wear ear protection
	Wear eye protection
	Wear dust mask
	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
	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.

	Li-Ion 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.
	Make sure the battery is removed prior to changing accessories.
	Wear protective gloves







# COMPONENT LIST

1.	<b>SWITCH LEVER</b>
2.	<b>FORWARD AND REVERSE ROTATION PUSHER</b>
3.	<b>ON/OFF SWITCH</b>
4.	<b>BATTERY PACK RELEASE BUTTON *</b>
5.	<b>BATTERY PACK *</b>
6.	<b>RATCHET</b>
7.	<b>LED LIGHT</b>
8.	<b>HOLE FOR WATER TO LEAK OUT</b>
9.	<b>FLEXIBLE SHAFT</b>
10.	<b>WATERPROOF PLUG</b>

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

# TECHNICAL DATA

Type **WX891 WX891.X (891 - designation of machinery, representative of drain auger)**

	<b>WX891 WX891.X**</b>
Voltage	20 V  Max. ***
Speed	0~560 rpm
Dredging capability	φ19~76 mm
Shaft size	L*D=7.6 m * φ 7 mm
Machine weight (bare tool)	3.4 kg

\*\* X=1-999, A-Z, M1-M9 there are only used for different customers, there are no safe relevant changes between these models.  
\*\*\* Voltage measured without workload. Initial battery voltage reaches maximum of 20 volts. Nominal voltage is 18 volts.

Category	Type	Capacity
20V Battery	WA3550	1.5 Ah
	WA3550.1	1.5 Ah
	WA3551	2.0 Ah
	WA3551.1	2.0 Ah
	WA3553	4.0 Ah
	WA3014	4.0 Ah

20V Charger	WA3760	0.4 A
	WA3869	2.0 A
	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	$L_{PA}$ : 66 dB(A)
A weighted sound power	$L_{WA}$ : 77 dB(A)
$K_{PA}$ & $K_{WA}$	3 dB(A)

**Wear ear protection.**

# VIBRATION INFORMATION

Vibration emission value: $a_h = 0.74 \text{ m/s}^2$
Uncertainty $K = 1.5 \text{ m/s}^2$

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.  
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.

## OPERATING INSTRUCTIONS




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

### INTENDED USE:

It is a handheld drain auger, used to dredge the 19-76mm of the pipes.

### Assembly and Operation

Action	Figure
<b>BEFORE OPERATION</b>	
Removing the battery pack	See Fig. A1
Charging the battery back	See Fig. A2
Installing the battery pack	See Fig. A3
<b>OPERATION</b>	
Flexible shaft advances to the blockage	
-- Adjust the switch correctly	See Fig. B
-- Extend the cable <b>NOTE:</b> The harder you press, the faster the flexible shaft will rotate.  <b>ATTENTION: Keep the tool head at most of 10cm of the pipe opening. If the distance is too long, it will cause the flexible shaft to be twisted and knotted. When tool head is difficult to approach the pipe, please use the front guide tube, preventing injury.</b>	See Fig. C
Rotate flexible shaft and entangling the rubbish	See Fig. D
Retract the flexible shaft and bring out the rubbish	See Fig. E

## CLEANING AND MAINTENANCE

Clean the rubbish on the flexible shaft and drain all the dirty water in the drum, store it in a shade and dry place.

Fully charge battery after work. And store it in a shade and dry place.

## STORAGE AND MAINTENANCE OF THE MACHINE

Before maintenance, please switch off and take off the battery pack!  
After each use, rotate manually the drum and remove the waterproof plug. Erect tools with head down so that liquid will drain out and reinstall the waterproof plug. Do remember to take off the wrench in case of tossing out next time.  
Please clean the flexible shaft and drum carefully. If it is not to be used for a long time, please apply butter on the surface of the flexible shaft.

## MAINTAIN TOOLS WITH CARE

**Remove the battery 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.  
Periodically clear dust and chips from guard and base to ensure proper performance.

## FOR BATTERY TOOLS


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.

## 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.

# TROUBLE SHOOTING

Symptom	Possible Solution
The flexible shaft and rubbish are stuck in the pipe and cannot be retracted	<p>A. Follow Fig. F.</p> <p>B. If fail, pull out the flexible shaft by hand.</p> <p>(1) Put on gloves and remove the battery;</p> <p>(2) Push the lever to middle“O” (F-O-R);</p> <p>(3) Pull the flexible shaft out of the pipe by hand and plug it back into the ratchet.</p>
The flexible shaft cannot wrap rubbish	<p>Push the lever to middle “O” (F-O-R), flexible shaft will works stay in the current position.</p> <p>Push the R &amp; L pusher in turn and start the machine.</p> <p>Repeat, observe, until it wraps rubbish;</p> <p>Follow Fig. G. Start the machine to retract the flexible shaft or pull out it by hand.</p>
The flexible shaft got twisted together	<p>Release the on/off switch to stop rotation.</p> <p>Push the lever to middle “O”(F-O-R), avoid twisting tighter.</p> <p>Adjust the R &amp; L pusher to reverse the direction of rotation;</p> <p>a. When forward rotation L(R-S-L), please adjust to R.</p> <p>b. When reverse R (R-S-L), adjust to L.</p> <p>Slowly start the on/off switch, the flexible shaft will be automatically unlocked.</p> <p> <b>WARNING: If you are unable to clear the pipe or encounter problems, please contact a professional.</b></p>

# DECLARATION OF CONFORMITY

We,  
Positec Germany GmbH  
Grüner Weg 10, 50825 Cologne, Germany

Declare that the product  
Description **Battery operated drain auger**  
Type Designation **WX891 WX891.X (891 - designation  
of machinery, representative of drain auger)**  
Function **Cleaning pipe**

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

Standards conform to  
**EN 62841-1, EN 62841-2-21, EN 55014-1, EN 55014-2**

The person authorized to compile the technical file,  
**Name Marcel Filz**  
**Address Positec Germany GmbH**  
**Grüner Weg 10, 50825 Cologne, Germany**



2021/02/01  
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 Power Tools (Europe) Ltd,  
PO Box 6242, Newbury, RG14 9LT, UK

Declare that the product

Description **Battery operated drain auger**

Type Designation **WX891WX891.X (891 - designation of machinery, representative of drain auger)**

Function **Cleaning pipe**

Complies with the following Directives:

**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 62841-2-21, BS EN 55014-1, BS EN 55014-2**

The person authorized to compile the technical file,

Name **Jim Kirkwood**

Address **Positec Power Tools (Europe) Ltd,  
PO Box 6242, Newbury, RG14 9LT, UK**

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2021/02/01

Allen Ding

Deputy Chief Engineer, Testing & Certification

Positec Technology (China) Co., Ltd

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Park, Jiangsu 215123, P. R. China



**you've got the power**

## After-sales Service and Application

At [www.worx.com](http://www.worx.com) 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](mailto:customerservices@worxtools.com)

**[www.worx.com](http://www.worx.com)**

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# 20V Cordless Drain Auger WX891 WX891.X