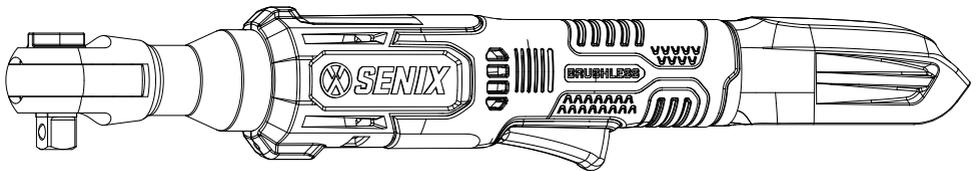




**X2** **18V** **LITHIUM-ION** **BRUSHLESS**™

# CORDLESS RATCHET WRENCH



**CAUTION:** Before using this tool, please read this manual completely, and follow all operating safety measures.

- SAFETY
- ASSEMBLY
- OPERATION
- MAINTENANCE

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# TABLE OF CONTENTS

SAFETY & INTERNATIONAL SYMBOLS.....	2
SAFETY INSTRUCTIONS.....	3
KNOW YOUR UNIT.....	6
SPECIFICATIONS.....	7
ASSEMBLY.....	7
OPERATION.....	8
MAINTENANCE.....	9
TROUBLESHOOTING.....	10

## SAFETY & INTERNATIONAL SYMBOLS

The following table depicts and describes safety symbols that may appear on this product. Read, understand and follow all instructions on the machine before attempting to assemble and operate.



Caution / Warning.



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



Wear eye protection.



Wear hearing protection.



Do not use in rain or wet conditions.



Wear protective gloves.



Do not dispose of battery packs in rivers or immerse in water.



Do not dispose of battery packs in fire. They will explode and cause injury.



Use the battery in a maximum temperature of 50°C (122°F).



Do not disassemble, crush, heat above 100°C (212°F); Never expose the battery to microwaves or high pressures.



Indoor use only. Only use battery charger indoors.



General symbol for recovery/recyclable.



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or local store for recycling advice.



RCM Mark

# SAFETY INSTRUCTIONS

## 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.*

NOTE The term "residual current device (RCD)" can be replaced by the term "ground fault circuit interrupter (GFCI)" or "earth leakage circuit breaker (ELCB)".

#### 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 a 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 100°C (212°F) 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.*



### WARNING!

Only use following batteries: B20X2/B25X2/B40X2/B50X2/B60X2/B80X2 and chargers: CHX2/CHQX2/CHQX2-M-EU/CHDX2-M-EU.

## SAFETY WARNINGS FOR RATCHET WRENCH

- a. **Hold power tool by insulated gripping**

**surfaces when performing an operation where the fastener may contact hidden wiring.** *Fasteners contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.*

- b. **Wear ear protection when impact driving.** *Prolonged exposure to loud noises can lead to eventual hearing loss.*
- c. **Always use common sense and be cautious when using tools.** *It is not possible to anticipate every situation that could result in a dangerous outcome. Do not use this tool if you do not understand these operating instructions or you feel the work is beyond your capability.*
- d. **Maintain labels and nameplates.** *These carry important information. If unreadable or missing, contact the service facility for a free replacement.*



## WARNING!

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paint
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

## VIBRATION + NOISE REDUCTION

To reduce the impact of noise and vibration emission, limit the time of operation, use low-vibration and low-noise operating modes as well as wear personal protective equipment. Consider the following points to minimize the vibration and noise exposure risks.

- Only use the product as intended by its design and these instructions.
- Ensure that the product is in good condition and well-maintained.
- Use correct attachments for the product

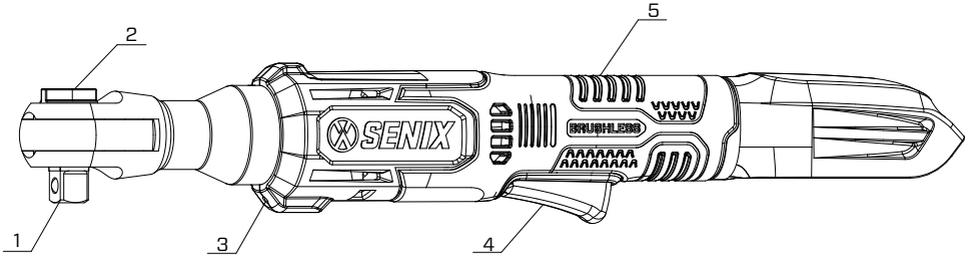
and ensure they are in good condition.

- Keep a tight grip on the handles/grip surface.
- Maintain this product by these instructions and keep it well-lubricated (where appropriate).
- Plan your work schedule to spread any highvibration tool use across a longer period.

## INTENDED USE

This ratchet wrench is intended for tightening or loosening bolts, nuts, and other fasteners. Do not use it for other purposes.

# KNOW YOUR UNIT



## APPLICATIONS

Model: PDWX2-M13-EU

As a cordless ratchet wrench:

Tightening or loosening bolts, nuts, or other fasteners.

1	Anvil
2	Forward/Reverse Switch
3	Work Light
4	Variable Speed Trigger
5	Handle

# SPECIFICATIONS

Do not insert the battery pack before the power tool is completely assembled or adjusted!

Model	PDWX2-M13-EU
Voltage	18 V $\approx$ (20 V $\approx$ Max*)
Motor Type	Brushless
No-Load Speed	0-250 rpm
Fastening Torque	75 Nm
Square Drive	13 mm
Fastening Capacity	Standard bolt: M6-M14 High tensile bolt: M6-M12
Weight (Tool Only)	1.3 kg

\*20V Max battery, maximum initial battery voltage (measured without a workload) is 20V. The nominal voltage is 18V.

# ASSEMBLY

1. Unpack all components and lay them on a flat, stable surface:
2. Remove all packing materials and shipping devices, if applicable.
3. The scope of delivery varies depending on the country and purchased variant.  
Model of PDWX2-M13-EU
  - Cordless ratchet wrench x1
  - Instruction manual x1
4. If parts are missing or damaged. Do not use the product. Contact your local dealer.
5. Ensure that you have all the accessories and tools needed for assembly and operation. This also includes suitable personal protective equipment.



## WARNING!



Wear protective gloves for this assembly work and always lay the product on a flat and stable surface while assembling.



Follow the assembly instructions step-by-step and use the pictures provided as a visual guide to easily assemble the product!

## INSTALLING/REMOVING THE SOCKET



### WARNING!

Only use accessories specifically recommended for this tool. An improper sized socket may cause hazard.



### WARNING!

Always remove battery pack from the tool before changing or removing accessories.

#### To install:

Align the socket and firmly push it onto the anvil until it is fully seated.

#### To remove:

Pull the socket off the anvil.

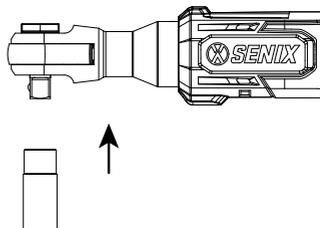


Fig. 1

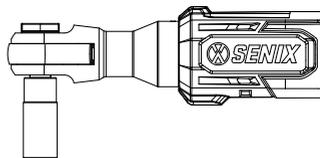


Fig. 2

## INSTALLING/REMOVING THE BATTERY PACK

### To install:

Align and slide the battery pack onto the slots of the battery docking port until it locks in place.

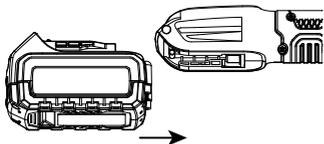


Fig. 3

### To remove:

Press the battery-release button and remove the battery pack from the product.

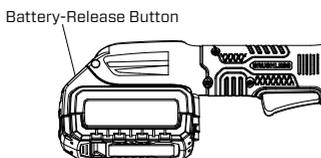


Fig. 4



### NOTE:

Refer to the manuals for the charger and battery pack for more details.

## OPERATION



### WARNING!

Always wear eye, hearing, hand protection to reduce the risk of injury when operating the tool. Keep all parts of your body away from the rotating bit.

## ROTATION DIRECTION

The tool is designed to loosen or tighten bolts, nuts, and other fasteners depending upon the rotation direction of the anvil. The rotation direction is controlled using the forward/reverse switch.



### WARNING!

Always check the direction of rotation before use.



### WARNING!

Do not change rotation direction while the product is running. Wait for a complete stop before adjusting setting.

Mode	Setting	Application
Forward	Rotate the forward / reverse switch counterclockwise	Tightening fasteners
Reverse	Rotate the forward / reverse switch clockwise	Loosening fasteners

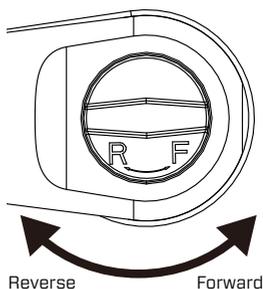


Fig. 5

## SWITCHING ON/OFF

1. Rotate the forward/reverse switch counterclockwise or clockwise.
2. Press the trigger to start the product.
3. Release the trigger to stop the product.

## WORK LIGHT

This product is designed with a light for working in dim areas. When the trigger is

activated, the light is on. The light goes out automatically after releasing the trigger.

## OVERHEAT PROTECTION

When the tool/battery is overheated, the tool stops automatically. In this situation, let the power tool/battery cool before turning the tool on again.

## MAINTENANCE



### WARNING!

Only perform cleaning and maintenance according to these instructions! All further works must be performed by a qualified specialist!



### WARNING!

**TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:** Make sure the battery pack is removed before performing any procedure in this section.

**TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:** Do not use damaged equipments. If abnormal noise or vibration occurs, have the problem corrected before further use. There are no user-serviceable parts in your power tool. If any of following condition are found, stop using it and send it to the authorized service center for repair.

- leaking, swollen, or cracked battery pack
- loose hardware
- misalignment or binding of accessories
- cracked or broken parts
- any other condition that may affect its safe operation

## CLEANING

1. Clean dust and debris from air vents.
2. Keep handle clean, dry and free of oil or grease.
3. Remove stubborn dirt from housing with high pressure air (max. 3 bar).



### WARNING!

Do not use chemical, alkaline, abrasive or other aggressive detergents or disinfectants to clean this product as they might be harmful to its surfaces.

## TRANSPORTATION

1. Only carry by its handle.
2. Protect from any heavy impact.
3. Secure the product properly.

## STORAGE

1. Clean the product as described above.
2. Store in a dark, dry, frost-free and well ventilated area that is inaccessible to children. The ideal storage temperature is between 10°C (50°F) and 30°C (86°F).
3. Use original package for storage or cover with a suitable cloth to protect it against dust.



### NOTE:

To prolong battery life, store the battery pack separately from the tool in a 30%-50% charged condition. It's recommended to have your battery pack charged at least every 6 months.

## DISPOSAL

Unwanted product should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice. Users should clean up dust generated during operation to protect environment.



Electrical products should not be discarded with household products. Used electrical products must be collected separately and disposed of at collection points provided for this purpose. Talk with your local authorities or dealer for advice on recycling.

# TROUBLESHOOTING

Suspected malfunctions are often due to causes that users can fix themselves. Therefore, troubleshoot the product using this section. In most cases the problem can be solved quickly.

<b>Problem</b>	<b>Possible Cause</b>	<b>Solution</b>
Product does not start	Battery pack not properly attached	Attach properly
	Battery pack discharged	Remove and charge battery pack
Product operates slowly	Forcing tool to work too fast	Allow tool to work at its own rate
	Battery pack wearing out	Dispose of old battery pack properly or recycle. Replace battery pack
Overheating	Forcing tool to work too fast	Allow tool to work at its own rate
	Blocked motor housing vents	Blowing dust out of motor using compressed air



