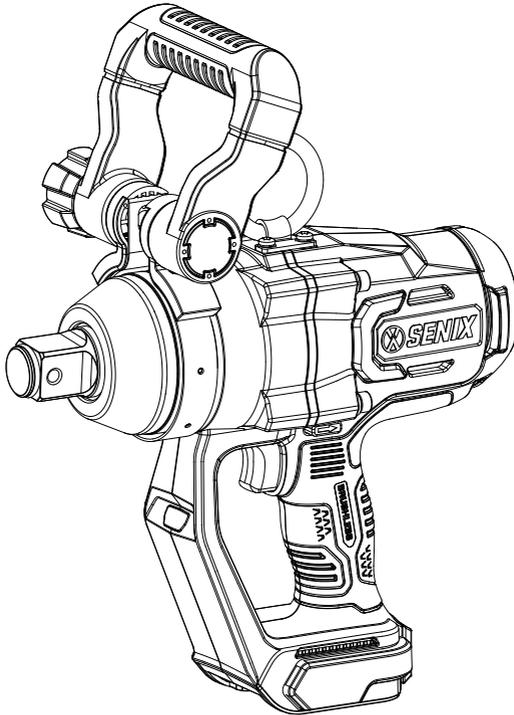




**X2** **18V** **Li-ion** **BRUSHLESS**<sup>™</sup>  
LITHIUM-ION

# CORDLESS HIGH-TORQUE IMPACT WRENCH



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

- SAFETY
- ASSEMBLY
- OPERATION
- MAINTENANCE

**Senix Australia Pty Ltd.** 32/3 Westside Avenue, #Port Melbourne, Victoria, 3207  
For customer support, please call **1300 461 825** or email us at [info@senixtool.com](mailto:info@senixtool.com)

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## SAFETY & INTERNATIONAL SYMBOLS

Explanation of Safety & International Symbols describes safety and international symbols and pictographs that may appear on this product. Read the operator's manual for complete safety, assembly, operating and maintenance and repair information.



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



Keep bystanders a safe distance away from the work area.



Indoor use only. Only use battery charger indoors.



Class II equipment (Charger).



RCM Mark



Caution / Warning.



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



Always wear eye protection, ear protection and head protection meeting ANSI Z87.1 standards.



Wear protective gloves.



Wear sturdy, non-slip footwear.



Do not use in rain or wet conditions.



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).

# 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 the 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 that may ignite 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 the 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 the 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.**  
*The 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.**  
*The 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 a dust mask, non-skid safety shoes, hard hats, 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 a power source and/or battery pack, picking up, or carrying the tool.**  
*Carrying power tools with your finger on the switch or energizing 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 jewelry. Keep your hair and clothing away from moving parts.**  
*Loose clothes, jewelry, 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.**  
*The use of dust collection can reduce dust-related hazards.*
  - h. **Do not let familiarity gained from the 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 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, tool bits, etc. by 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 the battery pack is not in use, keep it away from other metal objects, such as 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 the 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 behavior 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 (266°F) may cause an 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 WARNINGS FOR IMPACT 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. **Use only sockets and other accessories specifically designed for use on impact wrenches and drivers.** *Other sockets and accessories might shatter or break causing injury.*
- d. **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.*
- e. **Maintain labels and nameplates.** *These carry important information. If unreadable or missing, contact the service facility for a free replacement.*

## SAFETY WARNING FOR BATTERY PACK AND BATTERY CHARGER

- 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.
- Use the equipment only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.



### WARNING:

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

- When the battery pack is not in use, keep it away from other metal objects, such as 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.
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts the eyes, seek additional medical help. Liquid ejected from the battery may cause irritation or burns. (This advice is considered correct for conventional NiMh, NiCd, lead acid,

and lithium-ion cell types. If this advice is incorrect for a cell design that differs from these, then the correct advice may be substituted.)

- Do not use a battery pack or equipment that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion, or risk of injury.
- Do not expose a battery pack or equipment to fire or excessive temperature. Exposure to fire or temperature above 130°C may cause an explosion.
- Follow all charging instructions and do not charge the battery pack or equipment outside of the temperature range specified in the instructions. Charging improperly or at temperatures outside of the specified range may damage the battery and increase the risk of fire.
- Do not modify or attempt to repair the equipment or the battery pack (as applicable) except as indicated in the instructions for use and care.

## 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 high-vibration tool use across a longer period.

## EMERGENCY

- Familiarize yourself with the use of this product using this instruction manual. Memorize the safety directions and follow them to the letter. This will help to prevent

risks and hazards.

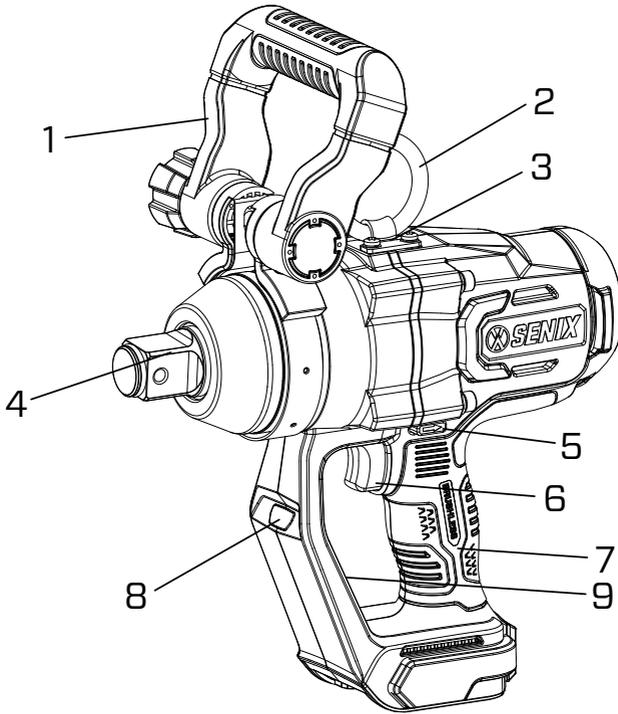
- Always be alert when using this product, so that you can recognize and handle risks early. Fast intervention can prevent serious injury and damage to property.
- Switch off the product and remove the battery pack if there are malfunctions. Have the product checked by a qualified professional and repaired, if necessary before you operate it again.

## **SAVE THESE INSTRUCTIONS**

### **INTENDED USE**

This impact 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-M6-EU

As a cordless impact wrench:

Tightening or loosening bolt, nut, or other fastener.

1	Auxiliary Handle
2	Tool Hanger Ring
3	Tool Hanger
4	Anvil
5	Forward/Reverse Switch

6	Variable Speed Trigger
7	Handle
8	Work Light
9	Control Panel

## SPECIFICATIONS\*

Model	PDWX2-M6-EU
Rated Voltage	18 V $\approx$ (20 V $\approx$ Max*)
Motor Type	Brushless
No Load Speed	0-1000 / 1100 / 1400 / 1650 RPM
No Load IPM	0-1330 / 1620 / 2100 / 2450 IPM
Max Fastening Torque	2000 Nm
Max Breakaway Torque	2450 Nm
Fastening Capacity	Standard bolt: M12-M42 High tensile bolt: M10-M32
Weight (tool only)	4.8 kg

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

## ASSEMBLY

1. Unpack all parts 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-M6-EU
  - Impact wrench x1
  - Auxiliary handle x1
  - Instruction manual x1
4. If you find that parts are missing or show damage, do not use the product and contact your dealer. Using an incomplete or damaged product represents a hazard to people and property.
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. Do not insert the battery pack before the power tool is completely assembled or adjusted!

## INSTALLING/REMOVING THE AUXILIARY HANDLE

1. To install the auxiliary handle, loosen the auxiliary handle knob until the ring loosens.
2. Slide the ring over the front of the tool until the detents are resting in the groove.
3. Tighten the auxiliary handle knob until it is secured.
4. To adjust the auxiliary handle, loosen the knob and rotate to the desired position. Tighten securely.
5. To remove the auxiliary handle, loosen the knob until the auxiliary handle can be removed.

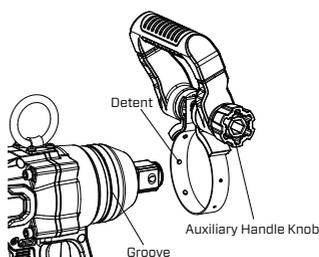


Fig. 1



## WARNING:

Make sure that the auxiliary handle knob is fully tightened before starting the tool.

## INSTALLING/REMOVING THE SOCKET



## WARNING:

Only use accessories specifically recommended for this tool. An improper sized socket may cause hazard. Always remove battery pack before changing or removing accessories.

To attach:

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

To remove:

Pull the accessory off the anvil.

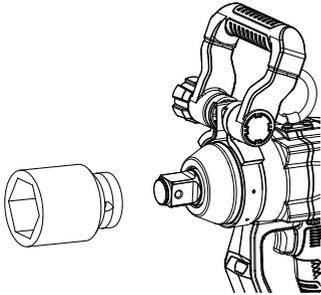


Fig. 2

## INSTALLING/REMOVING THE BATTERY PACK



### NOTE:

Prior to installation, lock the trigger using the trigger lock to avoid unintentional start.

To install:

Align and slide the battery pack to the docking port of the tool until it is locked in place.

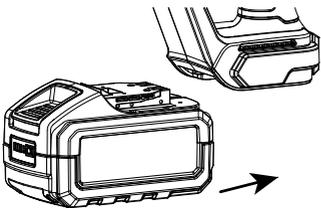


Fig. 3

To remove:

Press the rail lock release button on battery pack and slide the battery pack away from the tool.

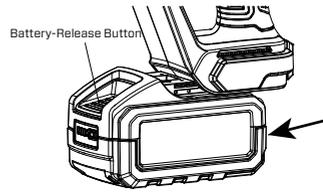


Fig. 4



### NOTE:

It is recommended to use B80X2 battery pack to ensure optimal performance of the tool.

## 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:

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

Mode	Setting	Application
Forward	Push the forward / reverse switch to right side	Tightening fasteners.
Reverse	Push the forward / reverse switch to left side	Loosening fasteners.
Center Lock	Keep the forward/ reverse switch at center position.	Locking the trigger.

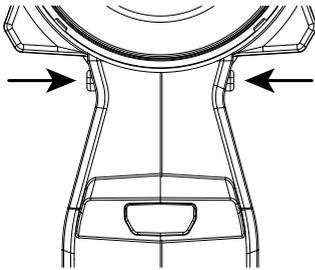


Fig. 5

## THE CONTROL PANEL

### SPEED

A suitable working speed will ease your operation. Choose a desired speed in advance by pressing the speed adjusting button from setting 1 to setting 4. The speed indicator will light in sequence with the speed setting.



### WARNING:

To avoid damage to the product, only adjust the speed setting when the power tool has come to a complete stop.

### REVERSAL AUTO-STOP

A fully loosened fastener is likely to fall off if you keep the trigger depressed under the reverse rotation mode.

Activating the reversal auto-stop function will automatically stop the motor once the fastener is fully loosened, even if the trigger continues to be engaged.



### NOTE:

The reversal auto-stop indicator will light when activating the reversal auto-stop function.

### WORK LIGHT

This product is designed with a light for working in dim areas. Turn on the light and adjust brightness by pressing the button on the control panel. The light shuts off automatically after the trigger is released.

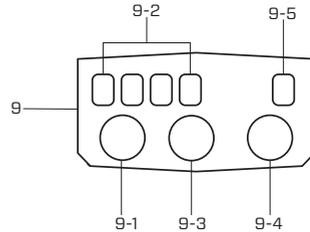


Fig. 6

9	Control Panel
9-1	Speed Adjusting Button
9-2	Speed Indicator
9-3	Work Light Button
9-4	Reversal Auto-Stop Button
9-5	Reversal Auto-Stop Indicator

## SWITCHING ON/OFF

1. Push the forward/reverse switch to left or right.
2. Press the trigger to start the product.
3. Release the trigger to stop the product.



### NOTE:

Always lock the variable speed trigger before storage and any time not in use.

## IMPACTING TECHNIQUES

The longer a bolt, screw, or nut is impacted, the tighter it will become. To help prevent damage to the fasteners or workpieces, avoid excessive impacting. Be particularly careful when impacting smaller fasteners because they require less impacting to reach optimum torque.

Practice with various fasteners, noting the length of time required to reach the desired torque. Check the tightness with a hand-torque wrench. If the fasteners are too tight, reduce the impacting time. If they are not tight enough, increase the impacting time.

Oil, dirt, rust or other matter on the threads or under the head of the fastener affects the degree of tightness.

The torque required to loosen a fastener averages 75% to 80% of the tightening torque, depending on the condition of the contacting surfaces.

On light gasket jobs, run each fastener down to a relatively light torque and use a hand torque wrench for final tightening.

## 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.

## OVERDISCHARGE PROTECTION

When the battery capacity is below a safe level, the tool stops automatically. If this occurs, remove the battery from the tool and charge the battery

## MAINTENANCE



### WARNING:

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



### WARNING:

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Make sure the trigger is locked and the battery pack is removed before performing any procedure in this section.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:

Do not use damaged equipment.

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 the following conditions 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 the handle clean, dry, and free of oil or grease.
3. Make sure the clamp is free of chips and sawdust.
4. Remove stubborn dirt from housing with high-pressure air (max. 3 bar).
5. Never immerse your tool in liquid or allow a liquid to flow inside them.



### NOTE:

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 or strong vibrations which may occur during transportation in vehicles.
3. Secure to prevent it from slipping or falling over.

## STORAGE

1. Clean thoroughly as described above.
2. Store in a dark, dry, frost-free, and well-ventilated area that is inaccessible to children. Store the battery within a temperature range of 0°C - 25°C (32°F - 77°F).
3. Use the original package for storage or cover it 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

Waste products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice. Debris or dust may be produced by the tool during operation, users should clean these objects to protect the 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 the users can fix themselves. Therefore, check the product using this section. In most cases the problem can be solved quickly.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Product does not start	Forward/reverse switch at center locking position	Push forward/reverse switch to proper side
	Battery pack not properly attached	Attach properly
	Battery pack discharged	Charge the battery pack
Product does not reach full power	Battery pack capacity too low	Charge the battery pack
	Battery pack reaches its life cycle	Replace with new battery pack
Unsatisfactory result	Socket is damaged	Replace with new socket
	Socket not suitable for intended operation	Use proper socket





