



USER MANUAL

使用說明書

CORDLESS 2-IN-1 IMPACT WRENCH/DRIVER

鋰電無碳刷衝擊起子/扳手雙用機



Be Xcellent

Located on the toolhousing are the model and serial numbers of your tool, please record these.
請您紀錄位於包裝盒上的工具型號與序號。

Model Number: _____

型號

Serial Number: _____

序號

WWW.BEXTOL.COM

Made in Taiwan



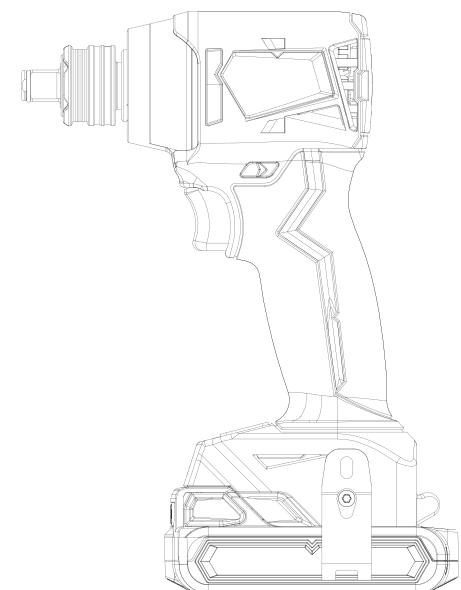
IMPROPER AND UNSAFE USE OF THIS TOOL WILL RESULT IN DEATH OR SERIOUS INJURY. IT IS VERY IMPORTANT THAT THE INTENDED OPERATOR OF THIS TOOL READS AND UNDERSTANDS THIS MANUAL BEFORE OPERATING THIS TOOL. KEEP THIS MANUAL AVAILABLE FOR OTHERS BEFORE THEY USE THE TOOL.



不當或不安全使用本工具可能導致死亡或嚴重傷害。
操作本工具的使用者務必在操作前仔細閱讀並理解本手冊內容。請將本手冊保留，供其他使用者在使用工具前參閱。

⚠ **WARNING:** Please read the instructions and warnings for this tool carefully before use. Failure to do so could lead to serious injury.

⚠ **重要事項:** 使用本工具前，請仔細閱讀操作說明與警告內容。
未遵守可能導致嚴重傷害。



IWD218SHAZ

Explanation of Symbols

Wear Eye Protectors	Warning	Read Instruction before Use	Wear Hearing Protectors
			
Direct Current	Revolutions per Minute (RPM)	Volts	
D.C.	$n \text{ XXXX min}^{-1}$	V	

Noise – IWD218SHAZ

The typical A-weighted noise level determined according to EN62841-2-2 :

Sound pressure level (LpA) : 77.1 dB(A)

Sound power level (LWA) : 88.1 dB(A)

Uncertainty (K) : 3 dB(A)

NOTE : The declared noise emission value(s) has been measured in accordance with a standard test method and may be used for comparing one tool with another.

NOTE : The declared noise emission value(s) may also be used in a preliminary assessment of exposure.

▲ **WARNING :** Wear hearing protection.

▲ **WARNING :** The noise emission during actual use of the power tool can differ from the declared value(s) depending on the ways in which the tool is used especially what kind of workpiece is processed.

▲ **WARNING :** Be sure to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

Vibration – IWD218SHAZ

The vibration total value determined according to EN62841-2-2 :

Vibration emission (ah) : 5.40 m/s² or less

Uncertainty (K) : 1.5 m/s²

NOTE : The declared vibration total value(s) has been measured in accordance with a standard test method and may be used for comparing one tool with another.

NOTE : The declared vibration total value(s) may also be used in a preliminary assessment of exposure.

▲ **WARNING :** The vibration emission during actual use of the power tool can differ from the declared value(s) depending on the ways in which the tool is used especially what kind of workpiece is processed.

▲ **WARNING :** Be sure to identify safety measure to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference and

(2) This device must accept any interference received, including interference that may cause undesired operation.

Table of Content

General Power Tool Safety Rules	03
Specific Safety Rules for Impact Driver / Wrench	05
Specifications	06
Assembly and Instruction	07
Operation	08
Battery Specification & Safety Rules	10
Charger Specification & Safety Rules	12
Maintenance	14
Troubleshooting	15

General Power Tool Safety Rules

⚠ WARNING: Read all safety rules, instructions, illustrations, and specifications. Failure to follow these instructions may result in electric shock, fire, and/or serious injury. Keep this manual and all instructions for future reference.

- The term "power tool" in these rules refers to both mains-operated (corded) and battery-operated (cordless) power tools.
- Always hold the power tool by insulated gripping surfaces only when performing an operation where the cutting tool may contact hidden wiring. Contact with a "live" wire may also make exposed metal parts of the power tool "live" and could cause electric shock to the operator.

Work Area Safety Rules

- a) Keep the work area clean and well lit. Cluttered or dark areas can lead to accidents.
- b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools can create sparks that may ignite the dust or fumes.
- c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control of the tool.

Electrical Safety Rules

- 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 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 increases 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. Using a cord rated 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 (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock.

Personal Safety Rules

- 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 a power tool 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 battery, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on can lead to 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, clothing and gloves 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. 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.
- i) Always wear protective goggles when using power tools. Goggles must meet ANSI Z87.1 (USA), EN 166 (Europe), or AS/NZS 1336 (Australia/New Zealand). In Australia/New Zealand, it is legally required to wear a face shield to protect your face, too.



Power Tool Operation 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 the battery pack 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. 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.

Battery Tool Operation and Care

- a) Recharge only with the charger specified by the manufacturer. Using unspecified or incompatible chargers may cause injury or fire.
- b) Use only specified battery packs. Incompatible batteries can cause injury or 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 eyes, seek medical help immediately. 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 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.

Service

- a) Have your power tool serviced by a qualified repair person using only the 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 an authorized service provider.

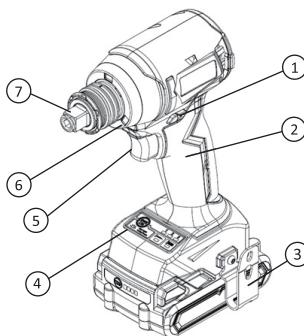
Specific Safety Rules for Electric Impact Driver / Wrench

- a) This product is a hand-held cordless impact wrench, designed for driving and removing screws, as well as tightening and loosening nuts and bolts in wood, metal, masonry, and concrete.
- b) Hold the power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring or its own cord. Fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- c) Brace the tool properly before use. This tool produces a high output torque and without properly bracing the tool during operation, loss of control may occur resulting in personal injury.
- d) Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body leaves it unstable and may lead to loss of control.
- e) Do not drill, fasten or break into existing walls or other blind areas where electrical wiring may exist. If this situation is unavoidable, disconnect all fuses or circuit breakers feeding this worksite.
- f) Always wear safety goggles or eye protection when using this tool.
- g) Wear ear protectors when using the tool for extended periods. Prolonged exposure to high intensity noise can cause hearing loss.
- h) 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.
- i) Secure the material being fastened. Never hold it in your hand or across your legs. Unstable support can cause loss of control and injury.

Specifications

Model No.	IWD218SHAZ	
No-load Speed (RPM)	[1]	0 – 1,100
	[2]	0 – 2,900
	[3]	0 – 3,600
Impacts per Minute (IPM)	[1]	0 – 1,100
	[2]	0 – 3,600
	[3]	0 – 4,600
Fastening Torque	224 Nm	
Fastening Capacities	Machine Screw	M4 – M8
	Standard Bolt	M5 – M16
	High Tensile Bolt	M5 – M14
Volts	18 V D.C.	
Dimension (with battery)	141 / 63 / 255 mm	
Weight (with battery)	1.7 kg	
Battery Model	EB18025-B1-1 EB18050-B1-1	
Charger Model	EC1800-B2	

Functional Description



1	F / R Control Switch
2	Handle
3	Belt Clip
4	Control Panel
5	Trigger
6	LED Light
7	1/2" Square Drive + Bit Holder

Assembly and Instruction

⚠ **WARNING : To reduce the risk of serious personal injury, turn unit off and remove the battery pack before making any adjustments or removing / installing attachments or accessories.** An accidental start-up can cause injury.

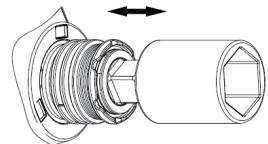
⚠ **WARNING : Recharge only with the charger specified for the battery.** For specific charging instructions, read the operator's manual supplied with your charger and battery.

- Only use accessories specifically recommended for this tool. Others may be hazardous.
- This tool is equipped with a **2-in-1 dual-purpose head**, compatible with both a 1/2" square drive and a hex bit holder, supporting the use of impact sockets and screwdriver bits.

Battery Inserting & Removing

■ To insert the battery :
Insert the battery into the tool. Make sure it is fully seated and securely latched into place.

■ To remove the battery :
Press the release buttons and remove the battery from the tool.

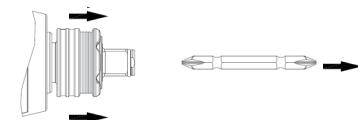


Sockets Installing & Removing

Use only the appropriate size square drive sockets designed for use with impact wrenches.

■ To install the socket :
Push it completely onto the square drive.

■ To remove the socket :
Simply pull it off.



Bits Installing & Removing

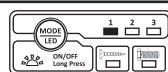
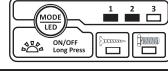
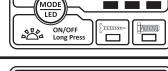
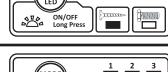
This tool is equipped with a quick-release bit holder for fast bit installation.

■ To install the bit :
Firmly press the bit into the bit holder until it locks securely in place.

■ To remove the bit :
Pull out the locking ring and remove the bit. Release the ring.

Operation

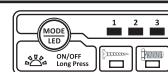
- ⚠ **WARNING** : To reduce the risk of serious personal injury, always wear proper eye protection marked to comply with ANSI Z87.1.
- ⚠ **WARNING** : When working in dusty situations, wear appropriate respiratory protection or use an OSHA compliant dust extraction solution.
- ⚠ **WARNING** : Always remove battery pack before changing or removing accessories. Only use accessories specifically recommended for this tool. Others may be hazardous.

Forward / Reverse		
Sequence	Display	Function (RPM)
1		Low
2		Medium
3		High
4		Wood Screw Mode
5		Bolt Mode
Note	Cycle Sequence : 1 → 2 → 3 → 4 → 5 → 1	

Control Panel - Mode Selection

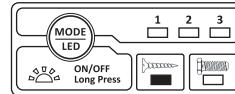
Allow the tool to come to a complete stop before changing modes.

Press the mode selector button  to cycle between the settings.

LED Lighting Control	
LED ON	LED OFF
	

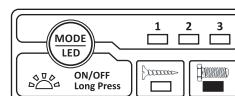
LED Light Control

Long press the mode selector button  to switch LED Lighting ON / OFF.



Wood Screw Mode

- Forward rotation : Starts at low speed to prevent the screw from dropping during initial driving. Once impact is detected, power automatically boosts to maximum speed.
- Reverse rotation : Control the motor speed according to the depth of trigger pressing.

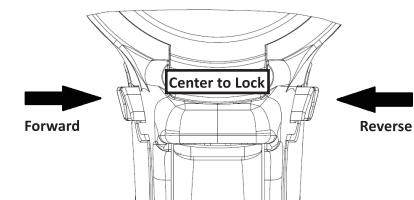


Bolt Mode

- Forward rotation : Control the motor speed according to the depth of trigger pressing.
- Reverse rotation : The motor runs at full speed and slows down after the bolt is loosened, to prevent the bolt from being thrown off.

Starting, Stopping and Speed Control

- These tools can be operated at any speed from 0 to full speed.
- To start the tool : Pull the trigger.
NOTE : The LED is turned on when the trigger is pulled.
- To vary the driving speed : Increase or decrease pressure on the trigger. The further the trigger is pulled, the greater the speed.
- To stop the tool : Release the trigger.



Forward / Reverse Control Switch

The control switch may be set to three positions : forward, reverse and lock. Due to a lockout mechanism, the F/R control switch can only be adjusted when the trigger is not pressed. Always allow the motor to come to a complete stop before using the control switch.

- Forward (clockwise) rotation : Push the control switch in the direction shown. Always check the rotation direction before use.
- Reverse (counterclockwise) rotation : Push the control switch in the direction shown. Always check the rotation direction before use.
- 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.

Impacting Techniques

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

Battery Specification & Safety Rules

Battery Level Indicator

Battery Level	LED Display
>75%	
50%~75%	
25%~50%	
5%~25%	
<5% (Flashes)	

Battery Specification

Battery Specification	
Battery Model	EB18025-B1-1
Rated Voltage	18 V
Rated Capacity	2.5 Ah
Cell Type	Li-ion
Dimension	120 / 76 / 63 mm

Battery Specification	
Battery Model	EB18050-B1-1
Rated Voltage	18 V
Rated Capacity	5 Ah
Cell Type	Li-ion
Dimension	120 / 76 / 44 mm

Status of Battery Pack Indicator

Battery Pack Status		
Condition	LED Display	
Overcurrent Protection	LED1 - LED4 (10 flashes)	
Oversupply Protection	LED1 & LED2 (10 flashes)	
Over Temperature Protection	LED3 & LED4 (10 flashes)	
Under Temperature Protection		
Single Cell Abnormality	LED3 & LED4 (Interactive flashing)	
Blown Fuse	LED1 & LED4 (10 flashes)	
Short Current	LED1 & LED3 (10 flashes)	
Deep Cell Voltage Permanent Failure (Cell Voltage < 1.3V)	LED1 & LED2 (Interactive flashing)	

Safety Rules for Battery

- Do not throw the battery into fire, nor heat the battery.
- Do not disassemble nor modify the battery pack.
- Do not leave the battery in a place of high temperature. (60°C or more)
- To prevent the battery from water or moisture.
- Do not add strong shock, nor drop the battery.
- Do not solder lead directly to the battery body.
- Do not heat nor solder the terminals of the battery.
- Do not short "+" and "-" terminal of the battery with a kind of metal.
- Do not charge beyond the condition which described on the delivery specification.
- Do not reverse-charge or reverse-connect the battery.
- When recharging, please use a special charger (EC1800-B2).
- Please regularly check the battery capacity. When the voltage of the battery is lower than the terminal voltage, its capacity may drop and cannot be recovered.
- If the battery is stored over 3 months, it should be checked again about the remaining capacity and charge the battery.

※Note : Please refer to the technical data sheet for the battery specifications.

Charger Specification & Safety Rules

Charger Specification

Charger Specification	
Charger	EC1800-B2
Battery Mode	EB18025-B1-1
	EB18050-B1-1
Output Voltage	10 - 20.7 ± 0.2 V
Protection Class	Electrical Protection Class II
AC Supply Voltage	100 VAC - 240 VAC
Mains Frequency	50 Hz - 60 Hz
Operating Temperature	0 °C - 40 °C
Storage Temperature	-40 °C - 75 °C

Status of Charge Indicator

State of Charge Indicator			
	State	Red LED	Green LED
1	Stand-by Mode	OFF	ON
2	Battery Pack Install and Charging	ON	OFF
3	Charging Complete	OFF	ON
4	Temperature Error Protection	Red and green LED flashes at the same time	
5	Over Charge Time	Red and green LED flashes alternately	
6	Abnormal Protection	Red and green LED flashes alternately	
7	95% Full Charge	OFF	Flashes

Safety Rules for Charger

- a) Keep work area clean and well lit. Cluttered and dark areas invite accidents.
- b) Do not operate the appliance in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Chargers can cause sparks which may ignite dust or fumes.
- c) Keep children and other persons away from the area while the charger is in use.
- d) The supply cord plug must match the outlet. Modification of the plug in any way is not permissible. Unmodified plugs and corresponding power outlets reduce the risk of electric shock.
- e) 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.
- f) Do not abuse the supply cord. Never use the supply cord to carry, pull or unplug the appliance. Keep the cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- g) Only use the battery charger in areas which are dry. Water entering an electric appliance increases the risk of electric shock.
- h) Use the charger only to charge the batteries approved for use with this charger.
- i) Do not use a charger if its casing or electric supply cord is defective.
- j) Store chargers out of reach of children when not in use. Do not allow persons unfamiliar with the appliance or these instructions to operate it. Chargers are dangerous in the hands of untrained users.
- k) Maintain the appliance carefully. Check to ensure that no parts are broken or damaged in such a way that the appliance can no longer function correctly. If damaged, have the appliance repaired before use.
- l) Use chargers and the corresponding batteries in accordance with these instructions and as is specified for this particular model. Use of chargers for applications different from those intended could result in hazardous situations.
- m) 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.
- n) When not in use, keep the battery and the charger away from paper clips, coins, keys, nails, screws or other small metal objects that could cause a short circuit at the battery terminals or the charging contacts. A short circuit at the battery terminals or charging contacts could result in personal injury (burns) or fire.
- o) Take care to ensure that the charger is standing in a steady, secure position. A falling battery or charger may present a risk of injury to yourself or others.
- p) Avoid touching the contacts.
- q) This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- r) Take care to ensure that the batteries suffer no mechanical damage.
- s) Do not charge or continue to use damaged batteries (e.g. batteries with cracks, broken parts, bent or pushed-in and/or pulled-out contacts).
- t) Do not touch the supply cord or extension cord if they are damaged while working. Disconnect the supply cord plug from the power outlet. Damaged supply cords or extension cords present a risk of electric shock.
- u) Never operate the appliance when it is dirty or wet. Under unfavorable conditions, dampness or dust adhering to the surface of the appliance, especially dust from conductive materials, may present a risk of electric shock. Dirty or dusty appliances should thus be checked at a service center at regular intervals, especially if used frequently for working on conductive materials.



Maintenance

⚠WARNING: To reduce the risk of injury, always unplug the charger and remove the battery pack from the charger or tool before performing any maintenance.

- Never disassemble the tool, battery pack or charger.
- Contact a service facility for ALL repairs.

Maintaining Tool

⚠WARNING: To reduce the risk of personal injury and damage, never immerse your tool, battery pack or charger in liquid or allow a liquid to flow inside them.

- Keep your tool, battery pack and charger in good repair by adopting a regular maintenance program.
- Inspect your tool for issues such as undue noise, misalignment or binding of moving parts, breakage of parts, or any other condition that may affect operation. If any issues are found, Return the tool, battery pack, and charger to an authorized service center.
- If the tool does not start or operate at full power with a fully charged battery pack, clean the contacts on the battery pack. If the tool still does not work properly return the tool, charger and battery pack to a service facility for repairs.

Cleaning

- Clean dust and debris from vents.
- Use only mild soap and a damp cloth to clean, since certain cleaning agents and solvents are harmful to plastics and other insulated parts. Some of these include gasoline, turpentine, lacquer thinner, paint thinner, chlorinated cleaning solvents, ammonia and household detergents containing ammonia.
- Never use flammable or combustible solvents around tools.

Repairs

- For repairs, return the tool, battery pack and charger to the nearest service center.

Troubleshooting

When protection activated , the indicator light will flash. Details are shown in the table below.

State of Abnormality	Probable Cause (malfunction)	Troubleshooting
Flash once	■ Battery Voltage Protection	■ Charge the current battery or replace it with a fully charged one.
Flash 2 times	■ Motor Temperature Protection ■ Battery Temperature Protection	■ Allow the tool to cool down, then press the trigger to restart. ■ Replace with a fully charged battery.
Flash 3 times	■ Motor Hall Sensor Components Abnormal	■ Take the tool to an authorized service center for inspection.
Flash 4 times	■ Over Current Protection	■ Press the trigger to restart.
Flash 5 times	■ EEPROM Abnormal	■ Replace or reinstall the battery, then restart the tool.
Flash 6 times	■ Battery Type Abnormal	■ Replace or reinstall the battery, then restart the tool.
Flash 7 times	■ Internal Controller Abnormal	■ Replace or reinstall the battery, then restart the tool.
No flashing	■ Control Panel Abnormal	■ Replace or reinstall the battery, then restart the tool.

Contact service if the problem persists.
For failure other than above situation, please stop using the tool and contact authorized service center.

Tel:+886-4-2359-8877

Address:No. 24, 36th Road, Taichung Industrial Park Taichung, Taiwan

符號說明

佩戴護目鏡	警告	使用前詳讀說明書	佩戴聽力保護裝置
			
直流電	每分鐘空載轉速 (RPM)	伏特	
D.C	$n \text{ XXXX min}^{-1}$	V	

噪音 – IWD218SHAZ

根據 EN62841-2-2 標準測定的典型 A 加權噪音級：
 聲壓級(LpA) : 77.1 dB(A)
 聲功率等級(LWA) : 88.1 dB(A)
 不確定性的測量 (K) : 3 dB(A)

註: 所聲明的噪音值是依據標準測試方法測得的，可用於比較不同工具之間的噪音程度。

註: 所聲明的噪音值亦可用於初步評估暴露情況。

▲ 警告：請佩戴聽力保護裝置。

▲ 警告：實際使用電動工具時的噪音值可能會因工具的使用方式，尤其是加工的工件類型而與聲明值有所不同。

▲ 警告：確保根據實際使用條件(包括工具關閉時、空轉時以及觸發時的所有操作循環部分)估算暴露情況，制定保護操作員的安全措施。

振動 – IWD218SHAZ

根據 EN62841-2-2 標準測定的總振動值：
 振動產生值 (ah) : 5.40 m/s²，或更低
 不確定性的測量 (K) : 1.5 m/s²

註: 所聲明的振動值是依據標準測試方法測得的，可用於比較不同工具之間的振動程度。

註: 所聲明的振動值亦可用於初步評估暴露情況。

▲ 警告：實際使用電動工具時的振動值可能會因工具的使用方式，尤其是加工的工件類型而與聲明值有所不同。

▲ 警告：確保根據實際使用條件(包括工具關閉時、空轉時以及觸發時的所有操作循環部分)估算暴露情況，制定保護操作員的安全措施。

目錄

一般電動工具安全規則	19
電動衝擊起子/扳手雙用機專用安全規則	21
規格	21
組裝與說明	22
操作	22
電池規格與安全使用事項	24
充電器規格與安全使用事項	26
維護保養	28
故障排除	29

一般電動工具安全規則

▲警告：請務必閱讀並遵循所有安全警告、使用說明、圖片與規格內容。若未遵守下列指引，可能導致觸電、火災，或造成嚴重人身傷害。

■ 在本安全規則中，「電動工具」指的是插電式電動工具或電池式電動工具。

■ 當進行的作業可能接觸到隱藏電線或自身電線時，請務必握持電動工具的絕緣握手表面。若緊固件誤觸帶電的電線，可能使電動工具的裸露金屬部分導電，並導致操作人員觸電。

工作場地安全規則

a) 保持工作區域整潔並具備充足照明。雜亂或昏暗的環境容易引發意外。

b) 請勿在有爆炸危險的環境中操作電動工具，例如存在易燃液體、氣體或粉塵的場所。電動工具可能產生火花，引燃粉塵或氣體。

c) 操作工具時，請讓兒童及旁觀者遠離工作區域。分心會導致操作者失去對工具的控制。

用電安全規則

a) 電動工具的插頭必須與插座相符，切勿改裝插頭。需接地的電動工具不可使用轉接插頭。使用原廠的插頭與相符的插座，可以降低觸電風險。

b) 作業時避免身體接觸接地金屬的表面，例如金屬管線、散熱器、鍋爐或冰箱。若身體接觸接地的表面，會提高觸電的風險。

c) 請勿將電動工具暴露於雨天或潮濕環境中。工具進水將增加觸電的風險。

d) 請勿不當使用電源線。切勿用電線搬運、拉動或拔除工具。請確保電線遠離熱源、油脂、銳利邊緣或活動零件等危險物品。受損或纏繞的電線將增加觸電的風險。

e) 戶外作業時，請使用適合戶外環境的延長線。使用適合戶外環境的延長線，能降低觸電風險。

f) 如無法避免在潮濕環境下操作電動工具，請務必使用具漏電保護裝置(GFCI)的電源，以有效降低觸電風險。

人身安全規則

a) 使用電動工具時，請保持專注與警覺，並運用常識。切勿在疲勞或受藥物、酒精或毒品影響下操作電動工具。即使短暫的疏忽也可能導致嚴重的人身傷害。

b) 使用個人防護裝備並始終佩戴護目鏡。在適當情況下，請搭配使用防塵口罩、防滑安全鞋、安全帽及聽力保護裝置等防護設備，以減少人身傷害的風險。

c) 避免工具意外啟動。在連接電源或電池、提起或搬運工具之前，請確保開關處於關閉狀態。若搬運工具時手指誤觸開關，或工具處於開啟狀態，可能會導致事故。

d) 啟動電動工具前，請務必移除所有定位鍵或扳手。若扳手或定位鍵遺留在旋轉零件上，可能導致人身傷害。

e) 操作工具時，請避免過度伸手。請保持穩固的立足點及良好的身體平衡，以確保在突發狀況下仍能有效控制工具。

f) 請穿著合適的服裝，避免穿著寬鬆衣物或佩戴飾品。確保頭髮、衣服和手套遠離活動零件，以防止捲入造成危險。

g) 若工具配備除塵或集塵裝置，請確保其妥善連接並正確使用。使用除塵或集塵裝置能減少因粉塵引起的危害。

h) 請勿因頻繁使用而自認熟練導致疏忽安全原則。即使是短暫的疏忽也可能造成嚴重傷害。請保持警覺並嚴格遵守安全規範。

i) 使用電動工具時，務必配戴護目鏡，以避免眼睛受到傷害。護目鏡需符合ANSI Z87.1(美國)、EN 166(歐洲)或AS/NZS 1336(澳洲/紐西蘭)標準。於澳洲/紐西蘭地區，法定需配戴面罩以保護臉部。



電動工具使用和注意事項

- a) 請依需求選擇適當的電動工具。正確選用工具能提升作業效率並降低風險。
- b) 若電動工具的開關無法正常控制開啟及關閉，請勿使用該工具。任何不能用開關控制的電動工具皆很危險，必須進行檢修。
- c) 在進行任何調整、更換配件或存放前，請先拔除電源插頭及/或卸下電池組。此預防措施能避免工具意外啟動的風險。
- d) 開置工具須存放於兒童無法觸及處，並避免交由不熟悉本工具及使用說明者操作。讓未經訓練者操作工具容易導致危險。
- e) 請定期檢查並維護電動工具。若發現異常噪音、活動零件錯位或卡住、破損或其他可能影響工具操作的情況，應立即停止使用並送修。維護不當的工具常常是事故的原因之一。
- f) 請保持切割工具鋒利並清潔。保養良好的切割工具不易卡住且更容易控制。
- g) 請依照說明書，並考慮作業條件及欲進行的作業，正確使用電動工具、配件與耗材。勿將工具用於非設計用途，以免發生危險。
- h) 保持握柄與操作表面乾燥，避免油污與油脂，防止因滑脫而失去控制。

電池式工具使用和注意事項

- a) 僅使用製造商指定的充電器為電池充電。混用未指定或不相容充電器會增加引發火災的風險。
- b) 僅使用原廠指定的電池組，混用未指定或不相容的電池會增加人身傷害及引發火災的風險。
- c) 未使用的電池組應存放在遠離金屬物體的地方，例如：迴紋針、硬幣、鑰匙、釘子、螺絲等。金屬物體可能意外連通電池端子而造成短路，進而導致火災或燒傷。
- d) 錯誤使用可能導致電池滲液。若接觸到皮膚，請立即以水沖洗；若濺入眼睛，應立即就醫。電池中滲出的液體可能會引起皮膚刺激或燒傷。
- e) 請勿使用已損壞或改裝的電池組或工具。否則可能引發火災、爆炸或人身傷害。
- f) 請勿將電池組或工具暴露於火源或高溫環境，以防電池損壞或爆炸。
- g) 請依規定的溫度範圍充電，並遵循所有充電說明。不當的溫度或充電方式可能導致電池損壞並增加火災風險。

維修

- a) 請尋求合格的維修機構進行檢修，並僅使用與原廠相同的替換零件。以確保電動工具的維護安全。
- b) 切勿自行檢修損壞的電池組。電池組的維修僅能由製造商或授權售服中心進行。

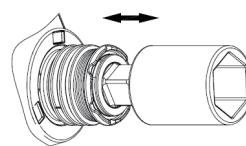
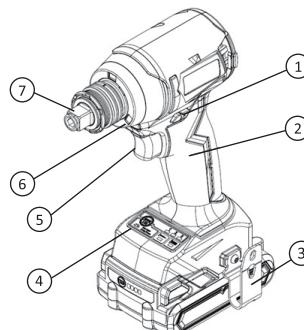
電動起子/扳手雙用機專用安全規則

- a) 在進行緊固件可能接觸到隱藏的電線或自身電線的操作時，請握住絕緣的握手表面來使用電動工具。緊固件接觸到「帶電」的電線可能會使電動工具的裸露金屬部分「通電」，並可能會使操作人員觸電。
- b) 使用前請妥善固定工具。本工具產生高扭矩輸出，若在操作過程中未妥善固定，可能導致失去控制並造成人身傷害。
- c) 使用夾具或其他方式將工件固定並支撐在穩定的平臺上。用手或靠在身體上固定工件會使其不穩定，可能導致失控。
- d) 不得在牆壁內部或其他可能存在電線的盲區進行鑽孔、固定或破壞作業。如果無法避免，請斷開所有為該工作現場供電的保險絲或斷路器。
- e) 使用本工具時，務必佩戴安全護目鏡或眼部防護裝置。
- f) 使用本工具時請佩戴聽力保護裝置，長時間暴露於高噪音環境可能導致聽力受損。
- g) 僅使用專為「衝擊扳手／衝擊起子」設計之套筒與配件。其他一般套筒或配件可能碎裂或斷裂，導致人身傷害。

規格

工具型號	IWD218SHAZ	
空載轉速RPM	【1】	0 - 1,100
	【2】	0 - 2,900
	【3】	0 - 3,600
衝擊數 IPM	【1】	0 - 1,100
	【2】	0 - 3,600
	【3】	0 - 4,600
鎖固扭力	224 Nm	
鎖固能力	機械螺絲	M4 – M8
	標準螺栓	M5 – M16
	高張力螺栓	M5 – M14
電壓	18 V 直流電	
工具尺寸(含電池)	141 / 63 / 255 mm	
工具重量(含電池)	1.7 kg	
電池型號	EB18025-B1-1 EB18050-B1-1	
充電器型號	EC1800-B2	

功能描述



配件安裝/拆卸 - 衝擊套筒

- 請使用適合衝擊扳手的方形驅動套筒。
- 安裝衝擊套筒：
請將衝擊套筒完全推入方形驅動頭，並確認其不鬆脫。
- 取下衝擊套筒：
直接將其從驅動頭上拔出即可。

1	正反轉切換鉗
2	握把
3	掛鉤
4	控制面板
5	扳機
6	LED燈
7	1/2" 方形驅動頭 + 1/4" 六角起子夾頭

組裝與說明

▲ 警告：僅使用指定的充電器進行充電。具體充電指示，請閱讀充電器和電池的使用手冊。
▲ 警告：如要更換或移除配件，請務必先移除電池組。

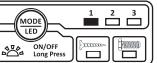
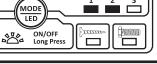
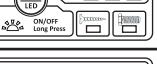
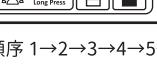
- 僅使用衝擊扳手專用的套筒及其他配件。
其他不相容的配件可能會破裂或損壞，導致人身傷害。
- 本工具配備二合一雙用頭，兼容1/2"方形驅動頭與1/4"起子夾頭，支援衝擊套筒及起子頭安裝應用。

電池移除/安裝

- 移除電池：
請按下釋放鉗，再將電池由工具上移除。
- 安裝電池：
請將電池插入工具，並確保電池已安裝至定位並確實扣上。

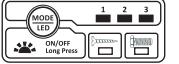
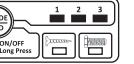
操作

▲ 警告：為降低嚴重人員受傷風險，請始終佩戴符合 ANSI Z87.1 標準的適當護目裝備。
▲ 警告：在多塵環境中作業時，請佩戴適當的呼吸防護裝置或使用符合 OSHA 規範的除塵解決方案。
▲ 警告：請在進行任何調整或拆卸/安裝配件之前，先將設備關閉並移除電池組。意外啟動可能會導致人身傷害。

正轉 / 反轉		
順序	面板顯示	功能 (轉速)
1		低
2		中
3		高
4		木工模式
5		螺栓模式
備註		循環順序 1→2→3→4→5→1

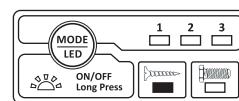
控制面板 - 模式切換

請在切換模式之前，讓工具完全停止運轉。
請按選擇模式按鈕  在各種模式間循環切換。

LED 燈操作說明	
開啟LED	關閉LED
	

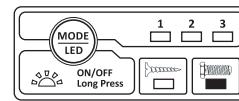
LED燈操作

長按選擇模式按鈕  以單獨操作LED燈開啟 / 關閉。



木工模式

正轉：先以低速運轉，避免螺絲在鎖入時掉落。
反轉：出現衝擊後智能補力至最高速。



螺栓模式

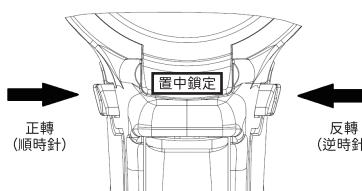
正轉：根據扳機按壓的深度控制馬達速度。
反轉：馬達以全速運轉，偵測到螺栓鬆開後自動降速，避免螺栓飛脫。

啟動、停止及控制速度

- 本工具可以在從0到全速的任何速度下操作。
- 若要啟動本工具，請先設置正反轉切換鈕，並且按壓扳機即可。
- 若LED燈功能設置為開啟，按壓扳機便能自動亮起。
- 若要改變運轉速度，請增加或減少施加於扳機的壓力。扳機按壓越深，速度便越快。
- 若要停止本工具，放開扳機即可。

正反轉切換鈕

切換鈕可設定三個位置：正轉、反轉和鎖定。
由於有鎖定機制，只有在未啟動工具時才能調整正反轉切換鈕。在使用切換鈕前，請務必確認馬達已完全停止。



- 正轉 (順時針) 旋轉：請依照所示方向按下切換鈕，使用前請檢查旋轉方向。
- 反轉 (逆時針) 旋轉：請依照所示方向按下切換鈕，使用前請檢查旋轉方向。
- 鎖定扳機：請將切換鈕推到中間位置。當切換鈕處於鎖定位置時，扳機將無法運作。

衝擊技術

- 螺栓、螺絲釘或螺帽被衝擊的時間越長，就會變得越緊。為防止損壞緊固件或工件，應避免過度衝擊。對較小的緊固件時需特別小心，因為其達到最佳扭矩的衝擊時間較短。
- 請用各式緊固件進行練習，請記錄達到理想扭矩所需的時間。請用手動扭矩扳手檢查緊固程度，若緊固件太緊，則減少衝擊時間。若緊固件不夠緊，則增加衝擊時間。

- 螺紋上或緊固件頭部下的油、髒污、鏽蝕或其他物質會影響緊固程度。

- 在輕型墊片的工作中，將每個緊固件旋至一個相對較小的扭矩，並使用手動扭矩扳手進行最終擰緊。

電池規格與安全使用事項

電池電量顯示

電池電量	燈號
>75%	██████
50%~75%	█████□
25%~50%	████□□
5%~25%	□□□□
<5% (閃爍)	□□□□

電池組規格

電池規格	
電池型號	EB18025-B1-1
額定電壓	18 V
額定容量	2.5 Ah
電池類型	鋰離子電池
電池尺寸	120 / 76 / 63 mm

電池規格	
電池型號	EB18050-B1-1
額定電壓	18 V
額定容量	5 Ah
電池類型	鋰離子電池
電池尺寸	120 / 76 / 44 mm

電池組狀態顯示

電池組狀態顯示		
狀態	LED 顯示	
過電流保護	LED1 - LED4 閃爍10秒	██████
過電壓保護	LED1 & LED2 閃爍10秒	████
過溫度保護	LED3 & LED4 閃爍10秒	□□██
低溫保護		
單一電芯異常	LED3 & LED4 交錯閃爍10秒	□□□□
保險絲熔斷	LED1 & LED4 閃爍10秒	████
短路保護	LED1 & LED3 閃爍10秒	████
電芯過低電壓永久性保護 (電芯電壓 < 1.3 V)	LED1 & LED2 交錯閃爍10秒	□□□□

電池安全使用事項

- 請勿燃燒電池，也不要將電池拿去加熱。
- 請勿拆卸或重組電池組。
- 請勿將電池放在高溫的地方 (60°C或以上)。
- 請勿讓電池受潮或碰水。
- 請勿讓電池受到大力撞擊，也不要讓電池摔落地。
- 請勿直接將鉛焊接到電池本體。
- 請勿加熱或焊接電池的端子。
- 請勿使電池正、負端子短路。
- 請遵守運送規則上所述的條件。
- 請勿反向充電或逆向連接電池。
- 充電時，請用 EC1800-B2 專用充電器。
- 請定期檢查電池容量。當電池的電壓低於開路電壓時，電池容量可能會下降且無法恢復。

※ 備註：請參考電池規格技術數據表。

充電器規格與安全使用事項

充電器規格

充電器規格	
充電器型號	EC1800-B2
適配電池	EB18025-B1-1
	EB18050-B1-1
輸出電壓	10 - 20.7 ± 0.2 V
保護等級	電氣保護等級II
交流電供電電壓	100 VAC - 240 VAC
主要頻率	50 Hz - 60 Hz
作業溫度	0 °C - 40 °C
存放溫度	-40 °C - 75 °C

充電器狀態顯示

充電器狀態顯示		
狀態	紅燈	綠燈
待機狀態	關閉	開啟
安裝電池組以及充電	開啟	關閉
充電完成	關閉	開啟
溫度錯誤保護	紅燈及綠燈同時閃爍	
充電時間過長	紅燈及綠燈交錯閃爍	
異常保護	紅燈及綠燈交錯閃爍	
充電至95%	關閉	閃爍

充電器安全使用事項

- a) 保持工作區域整潔及光線充足。雜亂或黑暗的區域易導致事故發生。
- b) 請勿在有爆炸可能性的環境中運作充電器，例如：有易燃液體、氣體或粉塵的環境中操作。充電器可能產生火花，引燃粉塵或氣體。
- c) 電源線的插頭必須與插座相配。以任何方式改裝插頭皆不被允許。未經改裝的插頭與相配的插座能減少觸電的風險。
- d) 操作時避免身體接觸接地金屬的表面，如鐵管、散熱器、鍋爐、冰箱。若使用人員的身體接地，則觸電的風險會增加。
- e) 請勿以不正確的方式使用電源線。不要使用電線來移動、拉動充電器，或拔掉充電器的插頭。請確保電線遠離熱源、油、尖銳的邊緣或移動的零件。損壞或糾結的電線會增加觸電的風險。
- f) 請務必在乾燥處使用電池充電器。若電氣設備進水，會增加觸電的風險。
- g) 充電器僅能為原廠建議與本充電器一起使用的專用電池充電。
- h) 若充電器的外殼或電源線有缺陷，請不要使用該充電器。
- i) 請將閒置的充電器放置在兒童無法觸及的地方。不要讓不熟悉充電器或本說明的人操作充電器。充電器在未經過訓練的使用人員手中是相當危險的。
- j) 請小心保養充電器。請檢查以確保沒有任何部分破裂或損壞，導致充電器無法正常運作的狀況。若有損壞，請於使用前維修完成。
- k) 請遵照本說明及本特定型號的規定使用相應的充電器和電池。如果將充電器用於與其目的不同的應用中，可能會導致危險情況。
- l) 請只使用製造商指定的充電器進行充電。若將適用於一種電池組的充電器與另一種電池組一起使用，可能會有產生火災的風險。
- m) 請務必注意在不使用時，將電池和充電器置於遠離迴紋針、硬幣、鑰匙、釘子、螺絲或其他小型金屬物體的安全位置，以避免這些物體意外觸及電池端子或充電器接觸點而導致短路。
- n) 請避免電池終端或充電接觸點發生短路，因為這可能導致人身傷害（例如燒傷）或火災。
- o) 請確保電池與充電器置放於穩固、安全的位置。如果電池或充電器不慎掉落，可能會對自己或他人造成人身傷害的風險。
- p) 避免觸摸充電器端點。
- q) 本充電器不適合給生理、感官或精神能力下降、缺乏經驗、知識不足的人（包括兒童）使用，除非有負責其安全的人進行監督或指導如何使用本設備。
- r) 注意確保電池未受機械損傷。

維護保養

▲警告：為了降低傷害風險，在進行任何維護保養工作前，請務必拔掉充電器插頭並將充電器或工具的電池組移除。

- 請勿拆解工具、電池組或充電器。
- 請聯絡售服中心進行所有維修。

保養工具

■ 定期維護設備，確認工具、電池組和充電器處於良好狀態。

■ 檢查工具是否有異常噪音、零件錯位、活動零件卡住、零件損壞或任何其他可能影響工具運作的情況。如出現上述問題，請送回售服中心檢測維修。

■ 如果工具無法啟動或在使用完全充電的電池組時無法達到全功率，請清潔電池組上的接觸點。如果工具仍然無法正常運作，請送回售服中心檢測維修。

▲警告：為了降低傷害和損壞率，請勿讓工具、電池組或充電器泡水或受潮。

清潔

- 清潔通風孔上的灰塵和碎屑。
- 保持手柄乾淨、乾燥，並且無油、無脂。
- 僅使用溫和的肥皂和濕布進行清潔，因為某些清潔劑和溶劑對塑料和其他絕緣部件有害。例如：汽油、松節油、香蕉水、油漆稀釋劑、含氯清潔劑、氨及含氨的家用清潔劑。
- 切勿在工具周圍使用易燃或可燃的溶劑。

維修

如需維修，請將工具、電池組和充電器送至最近的售服中心。

故障排除

當保護功能啟動時，工具的指示燈會以閃爍方式提示，詳細說明如下表所示：

燈號顯示	描述	排除方式
閃爍一次	■ 電池電壓保護	■ 為當前電池充電。 ■ 換充滿電的電池。
閃爍兩次	■ 馬達溫度保護 ■ 電池溫度保護	■ 降低工具溫度，扣動扳機重新啟動工具。 ■ 換充滿電的電池。
閃爍三次	■ 馬達霍爾傳感器組件異常	■ 將工具送至售服中心檢查。
閃爍四次	■ 驅動器輸入電流過大	■ 扣動扳機重新啟動工具。
閃爍五次	■ EEPROM 存取異常	■ 請更換電池或重新安裝電池後，再次啟動工具。
閃爍六次	■ 電池種類異常	■ 請更換電池或重新安裝電池後，再次啟動工具。
閃爍七次	■ 控制器內部異常	■ 請更換電池或重新安裝電池後，再次啟動工具。
無燈號	■ 控制面板異常	■ 請更換電池或重新安裝電池後，再次啟動工具。

。如果問題仍然存在，請聯繫售服中心。

若發生上述情況以外之故障情形，請停止使用本工具，並聯絡當地售服中心進行檢測維修。

電話:+886-4-2359-8877

地址:臺中市西屯區工業區36路24號