



## GAS – POWERED NAILER

NiMH Battery

USER MANUAL 使用說明書



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.BEXTOOL.COM](http://WWW.BEXTOOL.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。

Explanation of symbols

Wear eye protectors	Warning	Fastener being fired	Wear helmet
			
Prohibit to use CO2 or O2	Capability of operation in contact actuation mode	Read instruction before use	Wear hearing protectors
			

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## 1. General Warning

### General Safety Warning

- ▲ User must wear eye protection which conforms to ANSI Z87.1/BS EN 166 with front and side protection against flying object; when handling, operating, and servicing the tool. It is employer's responsibility to enforce user and all other nearby personnel at worksite to wear eye protection when operating the tool.



**WARNING** Eye protection must be worn by the operator and other people in the work area.

**WARNING** It is employer's responsibility to provide and enforce the use of eye protection by the operator and other people in the work area.

- ▲ It is recommended to wear ear protection near or at the job site to prevent hearing damage. Hearing protection shall have a Noise Reduction Rating (NRR) determined in accordance with US Environmental Protection Agency rules that is appropriate for the noise exposure.

- ▲ **Head protection** shall conform to ANSI Z89.1 BS EN 397.



- ▲ **Dress Properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Rubber gloves and nonskid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.

- ▲ **Maintain tools with care.** Refer to the tool maintenance instructions for detailed information on the proper maintenance of a tool.

- ▲ This tool is not designed to be used in explosive atmosphere. The design of this tool will generate spark and the exhaust will also cause possible danger to ignite highly flammable fuel or gas. Do not use this tool in this kind of environment. Do not smoke while using or handling the tool and fuel cell.

- Inspect tool before operating to
  - Determine that tool is in proper working order.
  - Check for misalignment or binding of moving parts and any other condition that may affect tool operation.
- The fuel cell is high pressure liquefied gas bottle. Keep it away from spark, fire or high temp and explosive environment. Do not puncture the bottle or attempt to open the fuel cell. When the fuel used up, do not incinerate the bottle. Follow the recycle instruction on the bottle.
- Do not store the tool in temperature above 120°F(50°C). High temperature will result in explosion or fire and the release of flammable gas. When not in use, keep the tool from high temperature source or direct sun light.
- The tool needs to be used in well ventilated areas. Do not inhale the exhaust or fume or the gas because they are potentially dangerous to human body.
- Keep body balance when operating the tool, do not over reach.
- Keep the tool, fuel, charger and battery out of the reach of children. The tool is dangerous in the hand of untrained person.
- ▲ When the tool is not in use, it should be placed horizontally .When the tool is placed , avoid the safety yoke being squeezed.
- ▲ Do not use assistive devices to make tools stand . When tool is to stand. May triggered workpiece so that the tool is issued to actuate.
- Always check the tool before use for broken, misconnected or worn parts.
- Do not use a tool if the tool has been damaged.
- Only technically skilled operators should use the fastener driving tool.
- Do not discard the safety instructions.

- Be careful when handling fasteners, especially when loading and unloading, as the fasteners have sharp points which could cause injury.
- Only wear gloves that provide adequate feel and safe control of triggers and any adjusting devices.

#### General Power Tool Safety Warning

- **▲ WARNING Read all safety warnings and all instructions.** Failure to follow the warnings and instructions 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 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 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, 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.
- **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 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.
- **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.

- **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.



## Safety instructions for nailers

### – nailer safety warnings

- **Always assume that the tool contains fasteners.** Careless handling of the nailer can result in unexpected firing of fasteners and personal injury.
- **Do not point the tool towards yourself or anyone nearby.** Unexpected triggering will discharge the fastener causing an injury.
- **Do not actuate the tool unless the tool is placed firmly against the workplace.** If the tool is not in contact with the workplace, the fastener may be deflected away from your target.
- **Disconnect the tool from the battery when the fastener jams in the tool.** While removing a jammed fastener, the nailer may be accidentally activated if it is plugged in.
- **Use caution while removing a jammed fastener.** The mechanism may be under compression and the fastener may be forcefully discharged while attempting to free a jammed condition.
- **Do not use this nailer for fastening electrical cables.** It is not designed for electric cable installation and may damage the insulation of electric cables thereby causing electric shock or fire hazards.
- **▲** The tool should not be modified unless authorized in the tool manual or approved in writing by the tool manufacturer. The tool may function unexpectedly after the modification and cause dangerous.
- Do not drive this tool over materials that is too hard or too soft. Hard material can ricochet fastener and hurt people, soft material may be penetrate easily and cause the nail to free fly.
- Please use only lubrication liquid specified in this manual to perform the lubrication. Use other lubrication may cause damage to the tool and the risk of malfunction that will injure the operator.
- Please keep the tool in clean condition, wipe off grease or oil after work. Do not use any solvent based cleaner to clean the tool. It is possible the solvent will deteriorate the rubber or plastic components on the tool. Greasy handle and body will cause accidental drop of the tool and injury to nearby person.
- **Recommended fasteners and accessories**
  - Use only fasteners made or recommended by the tool manufacturer, or fasteners that perform equivalently to those recommended by the manufacturer.
  - Use only accessories made or recommended by the tool manufacturer, or accessories that perform equivalently to those recommended by the manufacturer.**Remarks: Accessories included, Battery, Battery Charger and Fasteners. Please refer to the technical data sheet for their specifications.**
- Do not use the tool to perform other job than designate function. Especially not use the tool as a hammer, impact on the tool will increase the risk of cracked body and accidental discharge of fastener.
- Load the fastener at last to prevent unexpected fastener firing when loading fuel cell and battery.
- **Operating controls**
  - Do not use a tool with missing or damaged safety warning label(s.)
  - A tool that is not in proper working order must not be used. Tags and physical segregation shall be used for control.
  - Do not remove, tamper with, or otherwise cause tool operating controls to become inoperable.
  - Do not operate tool if any portion of the tool operating controls is inoperable, disconnected, altered, or not working properly.
- **Tool handling**
  - Only persons who have read and understand the tool operating/safety instructions should operate the tool.
  - Always assume that tool contains fasteners.
  - Do not point tool toward yourself or anyone whether it contains fasteners or not.
  - Keep bystanders and children away while operating tool. 
  - Do not actuate tool unless tool is placed firmly against the workpiece.
  - Respect tool as a working implement.
  - Do not engage in horseplay.
  - Stay alert, focus on your work and use common sense when working with tools.
  - Do not use tool while tired, after having consumed drugs or alcohol, or while under the influence of medication.
  - Do not overreach. Keep proper footing and balance at all times.
  - Do not hold or carry tool with a finger on the trigger.
  - Drive fasteners into proper work surface only.
  - Do not drive fasteners into other fasteners.
  - After driving a fastener, tool may spring back (“recoil”) causing it to move away from the work surface. To reduce risk of injury always manage recoil by:
    - always maintaining control of tool.
    - allowing recoil to move tool away from work surface.
    - not resisting recoil such that tool will be forced back into the work surface. In “Contact Actuation Mode” if workpiece contact is allowed to re-contact work surface before the trigger is released, an unintended discharge of a fastener will occur.
  - keeping face and body parts away from tool.
  - When working close to an edge of a workpiece or at steep angles use care to minimize chipping, splitting or splintering, or free flight or ricochet of fasteners, which may cause injury.
  - Keep hands and body away from fastener discharge area of tool.
  - Do not load tool with fasteners when any one of the operating controls is activated.
- Do not operate tool with any power source other than that specified in tool operating/safety instructions.
- Do not operate tool with any operating pressure other than that specified in tool operating/safety instructions.
- Always select an actuation system that is appropriate to the fastener application and the training of the operator.
- Use extra caution when driving fasteners into existing walls or other blind areas to prevent contact with hidden objects or persons on other side (e.g., wires, pipes.)
- When fastening electrical cables, make sure the cables are not energized. Hold the tool only by insulated gripping surfaces. Use only fasteners designed for electrical cable installations. Inspect that the fastener has not damaged the insulation of the electrical cables. A fastener that damages the insulation of electric cables can lead to electric shock and fire hazards.
- Remove the fuel cell and battery when
  - Not in use;
  - Performing any maintenance or repairs;
  - Clearing a jam;
  - Elevating, lowering or otherwise moving the tool to a new location;
  - Tool is outside of the operator’s supervision or control; or
  - Removing fasteners from the magazine.

### Fuel safety warning

- Use only the fuel cell recommended by the manufacturer. Read the Safety Data Sheet to understand more of your fuel cell contents.
- Recycle the empty fuel cell according to the local law. Do not attempt to recharge the fuel cell or incinerate the empty fuel cell.
- Do not expose the fuel cell or tools loaded with fuel cell under direct sun light exposure. Prevent to put above items at temperature higher than 120°F(50°C). Overheating the fuel cell can result in explosion or fire.
- Do not puncture or attempt to open the fuel cell. The fuel cell contains flammable gas even if it appears empty.
- The content of the fuel cell is extremely flammable, keep it away from all source of ignition.

### Battery safety warning

- Use only batteries that are supplied by the manufacturer.
- Recycle the battery according to local law. Do not incinerate the battery or attempt to puncture and crush the battery.
- Do not immerse the battery into water or other fluid. Do not expose the battery to rain or snow.
- Do not expose the battery or tools loaded with battery under direct sun light exposure. Prevent to put above items at temperature higher than 120°F(50°C). Overheating the battery can result in explosion or fire.
- Do not allow direct contact of the battery nodes with metal or conductive material.
- Charge the batteries every 3 months even the tool is not used to prevent battery over-discharged over time.

### Charger safety warning

- Do not use the charger in explosive atmosphere. The electrical device is not designed to use in such environment.
- Do not charge battery outdoors or in temperatures below 40°F (5°C).
- Do not puncture or attempt to open battery case or cells.
- Do not immerse the charger into water or other fluid. Do not expose the charger under rain or snow.
- Do not use the charger if the cord is damaged or the charger is defect.
- Unplug the charger by pulling the adaptor unit, not by pulling the cord.
- Do not cover the charger with anything.
- Do not use a step up transformer or engine generator as the power source of the charger.
- Please charge the battery for at least 6 Hours before the first time use of the new battery.



### WARNING for tools with contact actuation capability

- Do not rest your finger on the trigger when picking up the tool, moving between operating areas and positions or walking, as resting finger on trigger can lead to inadvertent operation. For tools with selective actuation, always check the tool before use to ascertain the correct mode is selected
- This tool has either selective actuation for contact actuation or continuous contact actuation by actuation mode selectors or is a contact actuation or continuous actuation contact tool and has been marked with the symbol above. Its intended uses are for production applications such as pallets, furniture, manufactured housing, upholstery and sheathing.
- If using this tool in selective actuation mode, always ensure it is in the correct actuation setting.

- Do not use this tool in contact actuation for applications such as closing boxes or crates and fitting transportation safety systems on trailers and lorries.
- Be careful when changing from one driving location to another.

### Foreseeable hazards in the general use of hand-held tool

- Tool user should assess the specific risks that may be present as a result of each use

#### 1 Projectile hazards

- The fastener driving tool shall be disconnected when unloading fasteners, making adjustments, clearing jams or changing accessories.
- During operation be careful that fasteners penetrate material correctly and cannot be deflected/misfired towards operator and/or any bystanders.
- During operation, debris from workpiece and fastening/collation system may be discharged.
- Always wear impact-resistant eye protection with side shields during operation of the tool.
- The risks to others shall be assessed by the operator.
- Be careful with tools without workpiece contact as they can be fired unintentionally and injure operator and/or bystander.

- Ensure tool is always safely engaged on the workpiece and cannot slip

#### 2 Operating hazards

- Hold the tool correctly: be ready to counteract normal or sudden movements such as recoil.
- Maintain a balanced body position and secure footing.
- Appropriate hearing protection shall be worn.
- Use the correct energy supply as directed in the manual.

- Operating instructions shall direct the user on appropriate uses of the tool. This shall include information on what applications are allowed and which are not, and the associated risks such as when working on the back of trucks and moving platforms, etc.

- Operating instructions shall warn about risks associated with selective actuation.

### 3 Repetitive motions hazards

- When using a tool for long periods, the operator may experience discomfort in the arms, shoulders, neck, or other parts of the body.
- While using a tool, the operator shall adopt a suitable but ergonomic posture. Maintain secure footing and avoid awkward or off-balanced postures.
- If the operator experiences symptoms such as persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness, burning sensation, or stiffness, do not ignore these warning signs. The operator shall consult a qualified health professional regarding overall activities.
- Residual risks relating to repetitive work hazards such as duration of use in respect to working positions and forces may exist. It is advised to consult BS EN 1005-3 and BS EN 1005-4 for such information.
- Any risk assessment should focus on muscular-skeletal disorders and is preferentially based on the assumption that decreasing fatigue during work is effective in reducing disorders.

### 4 Accessory and consumable hazards

- The operating instructions shall specify the appropriate accessories and consumables.
- Disconnect the energy supply to the tool, such as air or gas or battery as applicable, before changing/replacing accessories such as workpiece contact, or making any adjustments.
- Use only the sizes and types of accessories that are provided by the manufacturer.
- Use only lubricants recommended by the tool manufacturer.

- Specification of the fasteners which can be used shall include minimum and maximum diameter, length, and fastener characteristics, such as gauge and angle..

#### 5 Workplace hazards

- Slips, trips and falls are major causes of workplace injury. Be aware of slippery surfaces caused by use of the tool and also of trip hazards caused by the airline hose.
- Proceed with additional care in unfamiliar surroundings. Hidden hazards may exist, such as electricity or other utility lines.
- This tool is not intended for use in potentially explosive atmospheres and is not insulated from coming into contact with electric power.
- Make sure there are no electrical cables, gas pipes etc. that could cause a hazard if damaged by use of the tool.

#### 6 Dust and exhaust hazards

- If the tool is used in an area where there is static dust, it may disturb the dust and cause a hazard.
- Risk assessment should include dust created by the use of the tool and the potential for disturbing existing dust.
- Direct the exhaust so as to minimize disturbance of dust in a dust filled environment.
- Where dust or exhaust hazards are created, the priority shall be to control them at the point of emission.

#### 7 Noise hazards

- Unprotected exposure to high noise levels can cause permanent, disabling, hearing loss and other problems such as tinnitus (ringing, buzzing, whistling or humming in the ears).
- Risk assessment and implementation of appropriate controls for these hazards are essential.

- Appropriate controls to reduce the risk may include actions such as damping materials to prevent workpieces from “ringing”.

- Use appropriate hearing protection.

- Operate and maintain the tool as recommended in these instructions, to prevent an unnecessary increase in noise levels.

- If the tool has a silencer, always ensure it is in place and in good working order when the tool is being operated.

#### 8 Vibration hazards

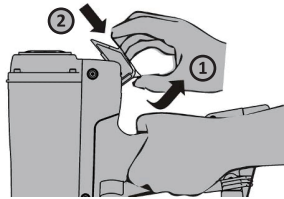
- Information to conduct a risk assessment of these hazards and implementation of appropriate controls is essential.
- Exposure to vibration can cause disabling damage to the nerves and blood supply of the hands and arms.
- Wear warm clothing when working in cold conditions, keep your hands warm and dry.
- If you experience numbness, tingling, pain or whitening of the skin in your fingers or hands, seek medical advice from a qualified occupational health professional regarding overall activities.
- Operate and maintain the tool as recommended in these instructions, to prevent an unnecessary increase in vibration levels.
- Hold the tool with a light, but safe, grip because the risk from vibration is generally greater when the grip force is higher.

#### Additional safety instructions for gas tools

- Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool, or which have been tested according to BS EN ISO 11148-13 by the gas container supplier.
- Be careful when using gas tools, as the tool can become hot, affecting grip and control.
- Gas fastener driving tools shall be used in ventilated spaces.
- In the case that liquid combustible gas comes into contact with human skin, injuries may occur.
- Gas containers shall be marked according to the required transport regulation.
- Handle gas containers carefully and check for damages. Damaged gas containers can explode and cause injury.
- Read and follow the instructions supplied with the gas container.
- Ensure combustible materials are not exposed to hot exhaust gases.
- Do not use gas tools in explosive areas as the sparks generated in the tool may cause fire or explosion..
- For gas tools, a small release of gas might be generated by regular operations.

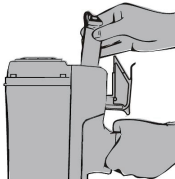
## 2. Operation instruction

### Load and unload the fuel cell



- Open the fuel cell door by pulling the door and rotate.
- Insert the fuel cell into the chamber. Align the fuel cell nozzle to the fuel stem on the tool.
- Close the fuel cell door.

### Load and unload the fastener

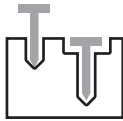


- Connect to battery and fuel cell before you load the fasteners. The tool had the chance to cycle once when connected to the battery. If you load the fastener before the battery connected, the fastener may be shoot out accidentally.
- Point the nozzle away from any personnel and keep your finger out of trigger when loading the fastener.
- To load the fastener, slide in the fastener strip into the magazine until the fastener strip passed the fastener stopper.
- Pull the pusher until it is beyond the stopper.
- Release the pusher to engage the fastener strip and feed it into the nozzle.
- To unload the fastener from the magazine, press the release lever on the pusher and tilt the tool to slide the fastener strip to the rear end of the magazine.
- Unload the fastener strip by press the fastener stopper and slide out the fastener strip.

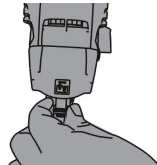
### For 3 steps magazine design, follow the same safety precaution and continue with following steps

- To load nails, pull the pusher to the rear until it is locked to the magazine at rear position.
- Slide nail strip into the magazine.
- Release the pusher to push the nail into the nozzle.
- To unload the fastener from the tool, pull the pusher to the rear locking position. Slide the nail out of the magazine.

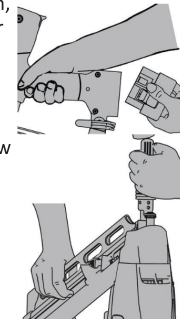
### Depth of drive adjustment

- This tool is equipped with the depth of drive adjustment. Test the depth of drive on scrap piece before you start your work. 
- Turn the knob to adjust the depth of drive.
- Repeat above procedure until you find your desired depth of drive setting.

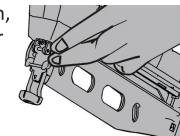
### Actuate method and the steps to fire the tool

- This tool is equipped with single sequential actuation system only. 
- To actuate the tool, depress the safety against the work piece, and then pull the trigger.
- To actuate the tool again, you will need to release the safety fully and release the trigger before you repeat above procedure.
- Make sure you are driving against work piece before you pull the trigger.

### Jam clearing for framing tool

- In the case of nail jam, disconnect the power source (fuel cell and battery) before you perform any action. 
- Use a #2 Phillips screw driver to insert into the drive channel.
- Tap the screw driver with a hammer to push back the driver blade and release the jam.
- Remove the jammed nail with needle nose pliers or similar type of tool. Do not use your hand to remove the nail.
- If you failed to remove the jammed nail by above method, remove the magazine by un-thread the connecting bolt and remove the Jammed nail with needle nose pliers. Assemble the magazine back before further use.

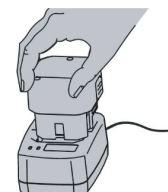
### Jam clearing for finish tool

- In the case of nail jam, disconnect the power source (fuel cell and battery) before you perform any action. 
- Open the driver guide cover by releasing the latch.
- Remove the jammed nail with needle nose pliers or similar type of tool. Do not use your hand to remove the nail.
- Secure the driver guide cover after you clear the jam.

### Jam clearing for concrete tool

- In the case of nail jam, disconnect the power source (fuel cell and battery) before you perform any action.
- If you tool is equipped with jam clear door, open the quick jam clear door on the side to expose the jammed fastener.
- If your tool is equipped with removable nozzle, press the release button and pull off the nozzle.
- Remove the jammed nail with needle nose pliers or similar type of tool. Do not use your hand to remove the nail.
- Close the jam clear door or assemble back the nozzle after you clear the jam.

### Charge the battery and LED on tool and charger

- There is battery come along with the tool. It will take 2 hours before the new battery can be fully charged.
- There will be no LED light when the charger is connected to electric and no battery is on the charger.
- The LED on the charger will turn red when it is charging a battery. 
- The other LED will turn green when the battery is fully charged.
- In the case of battery failure, the red and green LED will blink in sequence.
- When the tool is connected to a charged battery, the LED indicator on the tool will turn green.
- If the tool is running out of battery, the indicator LED will turn red. When the LED indicator turns red, stop using the tool and replace the battery.



### 3. Maintenance instruction

#### General maintenance

- The employer and tool operator are responsible for assuring that the tool is kept in safe working order. Furthermore only service personnel trained by the manufacturer, distributor, or employer shall repair the tool and shall use the parts or accessories that are supplied or recommended by the tool manufacturer/distributor.
- **CAUTION** disconnect the battery before performing any maintenance.
- Keep the tool in clean condition at all times. Wipe off grease or oil with dry clean cloth to prevent accidental tool drop. Avoid to use solvent base cleaner to clean the tool, certain solvent will damage or weaken the composite parts of the tool. Clean the intake filter regularly to keep the tool in full efficiency.
- **NEVER** use a tool if there is any doubt.
- **WASTE DISPOSAL** Follow national regulations for waste disposal so as not to impose hazards to personnel and the environment

#### Lubrication and cleaning

- This tool should not need extra lubrication since the fuel already contains some lubrication oils.
- The combustion chamber and cylinder can be cleaned by applying automobile carburetor cleaner. You will need to remove the 2 screws on the handle and 4 screws on the top cap to expose the internal component of cylinder.

#### Cold weather

- This tool is not suggested to be used in cold weather. The cold weather will decrease the combustion efficiency and also the battery performance. Use the tool only at temperature above -7°C(19°F).

#### Storage

- When not in use for an extended period, apply a thin coat of the lubricant to the steel parts to avoid rust. Do not store the nailer in a cold weather environment. When not in use, the nailer should be stored in a warm and dry place. Keep out of reach from children.

### 4. Trouble shooting

Symptom	Counter measures
Red LED indicator light is on and the tool does not operate.	<ul style="list-style-type: none"> <li>■ Battery power might be too low.</li> <li>■ Replace battery with a fully charged one.</li> </ul>
Tool operates normally but does not drive the fasteners to flush.	<ul style="list-style-type: none"> <li>■ Adjust the depth of drive setting to deepest.</li> <li>■ Clean the cylinder with proper cleaner.</li> <li>■ Check battery and replace as required.</li> <li>■ Depress the safety and hold for 1 minute before activate the trigger. If the tool does not fire, there might be seal leaking over the combustion chamber. Send to service center near you.</li> </ul>
Fan does not run and the indicator light is red.	<ul style="list-style-type: none"> <li>■ The battery is out. Replace the battery with a fully charged one.</li> <li>■ The battery node is dirty or oily. Clean the battery node with clean cloth.</li> <li>■ If all above did not work, send to service center near you.</li> </ul>
Battery does not accept charge or the charger get hot when charging.	<ul style="list-style-type: none"> <li>■ Replace the battery. If this action solves the problem, the battery is damaged or exhausted.</li> <li>■ Replace the charger if the battery works fine on tool but can not be charged on charger..</li> </ul>
Charger get hot, make noise or start to smoke	<ul style="list-style-type: none"> <li>■ The charger is damaged and should not be used any more. Unplug the charger immediately and replace it with a new charger.</li> </ul>
Work contact element is not fully depressed and the tool can not be used.	<ul style="list-style-type: none"> <li>■ The work contact element is bend or the track of the safety mechanism is sticky to the dirt build up. Clean the safety track. Repair or replace the work contact element.</li> <li>■ Lock out mechanism is active. Load more nails.</li> </ul>
Tool will not cycle, the indicator LED is green and the fan runs.	<ul style="list-style-type: none"> <li>■ Run out of fuel, replace a new fuel cell.</li> <li>■ Spark wire is loose, check the spark wire by removing the cap.</li> <li>■ Spark plug is dirty. Clean the spark plug.</li> <li>■ If all above did not work, send to service center near you.</li> </ul>
Tool operate normally, but no nail is driven.	<ul style="list-style-type: none"> <li>■ Wrong type of nails was used. Please change to correct nail spec.</li> <li>■ The cylinder needs cleaning.</li> <li>■ Nail is jammed, clean the jammed nail before use.</li> <li>■ The nail pusher did not engage properly with the nail strip. Adjust to fully engagement.</li> </ul>
Combustion chamber is not returning to start position.	<ul style="list-style-type: none"> <li>■ The work contact element is bending or dirty. Check the work contact element and repair or replace it. Clean the safety track.</li> </ul>
Driver did not return to initial position, miss fire frequency get higher than usual.	<ul style="list-style-type: none"> <li>■ Check and replace fuel cell.</li> <li>■ Clean the tool with proper cleaning fluid.</li> <li>■ Check for piston ring wear status.</li> <li>■ The tool maybe over heated. Clean or replace the intake air filter.</li> </ul>
Tool appears to be losing power.	<ul style="list-style-type: none"> <li>■ Check fuel cell.</li> <li>■ Clean or replace air intake filter.</li> <li>■ Check spark plug wire.</li> <li>■ Clean the tool with proper cleaning fluid.</li> </ul>
For failure other than above situation, please stop using the tool and contact your local dealer for service.	

符號說明

佩戴護目鏡	警告	釘子射出	佩戴安全帽
			
禁止使用 二氧化碳或氧氣	本工具可以在接觸 啟動模式下操作	使用前請先詳讀說明	佩戴聽力保護裝置
			

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## 1. 一般警告

### 一般安全警告

- ▲ 使用者在操作、處理和維修工具時，必須佩戴符合 ANSI Z87.1/BS EN 166標準的護目鏡，護目鏡需具備抵擋正面和側面飛散物的功能。雇主有責任強制要求使用者及工作現場所有其他附近人員在操作工具時佩戴護目鏡。  
警告:操作人員及工作區域內的其他人員必須佩戴護目鏡。  
警告:雇主有責任提供護目鏡並強制要求操作人員及工作區域內的其他人員佩戴護目鏡。
- ▲ 建議在工作場所附近或在工地上佩戴聽力保護裝置，以防止聽力損害。聽力保護裝置應具有根據美國國家環境保護局規定確定的噪音衰減評比，並應適合噪音暴露的程度。
- ▲ 頭部保護裝置應符合 ANSI Z89.1或BS EN 397標準。
- ▲ 著裝適當。不要穿寬鬆衣物或佩戴飾品，以免被活動零件夾住。建議在戶外工作時佩戴橡膠手套和穿著防滑鞋。頭髮較長者應佩戴保護性髮套，以束住頭髮。
- ▲ 妥善維護工具。請參閱工具維護說明，以獲取有關工具正確維護的詳細資訊。
- ▲ 本工具不適用於易爆環境中使用。本工具的設計會產生火花，且排氣也可能引起高度易燃的燃料或氣體著火。在此類環境中禁止使用本工具。在使用或處理工具或和瓦斯罐時，請勿吸煙。  
操作前請檢查工具，以：
  - 確定工具正常運作。
  - 檢查活動零件是否對準或卡住，以及其他可能影響工具操作的情況。
- 瓦斯罐為高壓液化氣瓶。請遠離火花、火焰、高溫及易爆環境中。切勿刺穿瓶子或嘗試打開瓦斯罐。當燃料用盡時，請勿焚燒瓶子。請遵循瓶上的回收指示。
- 請勿將工具儲存於超過120°F (50°C) 的環境中。高溫可能導致爆炸或火災，以及可燃氣體的釋放。當工具不使用時，請避免將其放置在高溫源或直射陽光下。
- 工具需要在通風良好的區域使用。請勿吸入排氣或煙霧或氣體，因為它們對人體可能具有潛在危險。
- 操作工具時請保持身體平衡，避免過度伸展。
- 請將工具、燃料、充電器和電池放在兒童無法觸及的地方。未經訓練的人員使用工具是危險的。



- ▲ 當工具不使用時，應水平放置。放置工具時，避免擠壓到保險護套。
- ▲ 請勿使用輔助裝置使工具站立。當工具需要站立時，可能會觸發工件，導致工具意外啟動。
- 每次使用前，請檢查工具是否有損壞、接錯或磨損的零件。
- 若工具已損壞，請勿使用。
- 只有技術熟練的操作人員可以使用釘子驅動工具。
- 請勿丟棄安全操作說明。
- 處理釘子時請小心，特別是在裝載和卸載時，因為釘子有尖銳的點，可能會造成傷害。
- 僅佩戴能提供足夠觸感且能安全操作扳機和調整裝置的手套。



## 一般電動工具安全警告

- ▲ 警告 請閱讀所有安全警告和所有操作說明。未遵守警告和操作說明可能會導致觸電、火災和/或嚴重傷害。  
請保留所有的警告和使用說明以供日後參考。在警告中，「電動工具」指的是您的插電式電動工具或電池式電動工具。

### ■ 1) 工作場地安全

- a) 請保持工作區乾淨且明亮，雜亂或黑暗的區域容易發生意外。
- b) 請勿在易爆炸環境中操作電動工具，例如存有易燃液體、氣體或粉塵的地方。電動工具會產生火花，可能引燃粉塵或煙霧。
- c) 在操作電動工具時，請保持兒童和旁觀者遠離。分心可能讓您無法安全操作工具。

### ■ 2) 用電安全

- a) 電動工具的插頭必須與插座相匹配，切勿以任何方式修改插頭。需接地的電動工具不能使用任何轉接插頭。未經修改的插頭和匹配的插座能降低電擊危險。
- b) 避免身體與接地的表面(如管道、散熱器、爐具和冰箱)接觸。如果身體接觸接地的表面，會增加電擊危險。
- c) 不要將電動工具暴露於雨水或潮濕環境中。若有水進入電動工具會增加電擊危險。
- d) 不得濫用電線。切勿使用電線進行搬運、拉扯或拔出電動工具。電線應遠離熱源、油、鋒利邊緣或活動零件。損壞或纏繞的電線會增加電擊危險。
- e) 戶外操作電動工具時，請使用適合戶外使用的延長線。使用戶外專用的電線可以降低電擊危險。
- f) 若無法避免在潮濕的地方操作電動工具，請使用漏電保護裝置(RCD)。使用RCD可降低觸電的風險。

### ■ 3) 人身安全

- a) 在操作電動工具時，請保持警覺，依據常識判斷當下作業需求和環境。不要在疲倦或受藥物、酒精或藥品影響時使用電動工具。在操作電動工具時，瞬間的疏忽可能導致嚴重人身傷害。
- b) 請使用個人防護設備，並確實佩戴護目鏡。在適當條件下佩戴防塵口罩、穿上防滑安全鞋、戴安全帽或聽力保護裝備等防護設備，可以有效減少人身傷害。
- c) 防止工具意外啟動。在連接電池、拿起工具，搬運工具前，請確保開關處於關閉狀態。搬運電動工具時手指放在開關上或開關處於通電狀態時容易引發事故。
- d) 在電動工具接通之前，取下所有定位鍵或扳手。遺留在電動工具旋轉零件上的扳手或定位鍵有可能會導致人身傷害。

- e) 請避免伸手去拿取工具。時刻注意立足點和身體平衡。以確保在意外情況下能妥善控制電動工具。
- f) 著裝適當。不要穿著寬鬆衣物或佩戴飾品。請將頭髮、衣物和手套遠離活動零件。寬鬆衣物、飾品或長髮可能會捲入活動零件當中。
- g) 如果提供了與排屑、集塵設備連接用的裝置，要確保他們連接完好且使用得當。使用集塵設備可減少因塵屑引起的危險。

### ■ 4) 電動工具使用和注意事項

- a) 使用電動工具時請勿用蠻力。根據用途使用適當的電動工具。選擇具有適當設計額定值的電動工具使您工作更有效率、更安全。
- b) 如果電動工具的開關無法接通或關閉，請勿使用該工具。任何無法通過開關控制的電動工具都是危險的，且必須進行修理。
- c) 在進行任何調整、更換配件或貯存電動工具之前，請先將插頭從電源上拔掉，或將電池從電動工具上取下。這些預防性安全措施能降低意外啟動電動工具的危險。
- d) 閒置的電動工具貯存在兒童無法拿到的地方，並且不要讓不熟悉該電動工具或對這些說明不了解的人操作它。讓未經訓練的使用者操作電動工具是相當危險的。
- e) 保養電動工具。檢查活動零件是否對準或卡住，零件是否損壞，以及其他可能影響電動工具運轉的情況。如果發現損壞，請在使用前進行修理。許多事故都是由於電動工具維護不善所造成的。
- f) 保持切削刀具鋒利和清潔。保養良好的有鋒利切削刃的刀具不易被卡住而且容易控制。
- g) 按照使用說明書，考慮作業條件和進行的作業來使用電動工具、配件和工具的刀頭等。將電動工具用於那些與其用途不符的操作可能會導致危險。

### ■ 5) 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進行充電。適用於一種電池組的充電器，若用於其他電池組，可能會引發火災風險。
- b) 只有在配有專用電池組的情況下才使用電動工具。使用其他電池組可能會發生損壞和火災風險。
- c) 當電池組未使用時，請將其遠離其他金屬物品，如迴紋針、硬幣、鑰匙、釘子、螺絲或其他小型金屬物品，以防一端與另一端連接。電池端部短路會引起燃燒或火災。
- d) 在不當的使用情況下，電池可能會釋放液體，請避免接觸之。如不慎接觸，請用清水沖洗。如液體接觸眼睛，請立即就醫。電池釋放的液體可能會引起刺激或灼傷。

### ■ 6) 維修

- a) 請由合格的維修人員使用相同的替代零件來維修您的電動工具。這將確保所維修的電動工具的安全性。

## 釘槍安全操作說明 – 釘槍安全警告

- 請務必始終認定工具中含有釘子。釘槍使用上若粗心大意會導致釘子意外射出並造成人身傷害。  
請勿將工具對準自己或旁人。意外扣動扳機會射出釘子，從而造成人身傷害。  
將工具牢固抵住工件之前，請勿啟動工具。如果工具未抵住工件，釘子可能會偏離目標位置。  
當釘子卡入工具時，請斷開工具電源。否則您在拆卸卡住的釘子時，釘槍可能會意外啟動。
- 拆卸卡住的釘子時，請務必小心操作。此時機械裝置可能會處於受壓狀態，當嘗試將釘子從受卡狀態中釋放時，它可能會強力射出。
- 請勿使用該釘槍來固定電纜。該釘槍並非設計用於電纜安裝，若用於該用途，可能會損壞電纜的絕緣材料，造成觸電或引發火災。
- ▲ 除非工具手冊中有授權或另經工具原廠書面批准，否則不得修改工具。修改後的工具可能會出現操作異常，並造成危險。
- 請勿在過硬或過軟的材料上使用此工具。硬質材料可能會使釘子反彈，傷害他人；軟質材料可能會被輕易穿透，導致釘子隨意射出。
- 請使用本手冊中指定的潤滑液進行潤滑。使用其他潤滑液可能會損壞工具，並增加發生故障的風險，從而對操作人員造成傷害。
- 請保持工具清潔，工作結束後擦拭掉油脂或潤滑油。請勿使用任何溶劑型清潔劑清潔工具，因為溶劑可能會損壞工具上的橡膠或塑膠部件。油膩的握柄和工具本體可能導致工具意外掉落，並對周圍的人員造成傷害。

### ■ ▲ 建議使用的釘子和配件

- 請使用由原廠生產或推薦的釘子，或與原廠推薦且性能相當的釘子。
- 請使用由原廠生產或推薦的配件，或與原廠推薦且性能相當的配件。  
備註:配件包括電池、充電器和釘子。有關配件規格，請參閱技術資料表。
- 請勿將工具用於除指定功能以外的其他工作。尤其不要將工具用作錘子，因為撞擊工具會增加工具外殼破裂和釘子意外射出的風險。
- 最後裝載釘子，以防在安裝瓦斯罐和電池時釘子意外射出。
- 操作控制
  - 請勿使用缺少或損壞安全警告標籤的工具。
  - 不符合正常工作狀態的工具不得使用。應使用標籤和物理隔離來進行控制。
  - 請勿移除、篡改或以其他方式使工具操作控制變得無法操作。
  - 如果工具的任何操作控制部分無法操作、斷開、修改或運作不正常，請勿操作工具。

- 工具操作
  - 僅由已閱讀並理解工具操作/安全說明的人員操作工具。
  - 始終假設工具內含釘子。
  - 無論工具內是否含有釘子，都不要將工具指向自己或他人。
  - 操作工具時，請讓旁觀者和兒童遠離。
  - 請勿在工具未牢固抵住工件時啟動工具。
  - 僅將工具用在工作方面。
  - 操作工具時，請勿嬉戲。
  - 保持警覺，專注於工作，並在使用工具時運用常識。
  - 請勿在疲勞、服用藥物或酒精後，或在受藥物影響時使用工具。
  - 請避免伸手去拿取工具。時刻注意立足點和身體平衡。
  - 握著或拿著工具時不要將手指放在扳機上。
  - 僅在適當的工作表面上驅動釘子。
  - 請勿將釘子驅動到其他釘子上。
  - 驅動釘子後，工具可能會反彈(「後座力」)，導致其脫離工作表面。為降低受傷風險，請務必：
    - 隨時保持對工具的控制。
    - 任後座力將工具推離工作面。
    - 不要抵抗後座力，以免工具被強行推回工作面。在「觸發啟動模式」下，如果工件在扣壓扳機前重新接觸工作面，可能會意外射出釘子。
  - 保持臉部和身體部位遠離工具。
  - 在靠近工件邊緣或以陡角操作時，請謹慎操作，以減少崩裂、分裂或碎裂等情況發生，以及釘子射出或反射，這些情況可能會導致受傷。
  - 保持手部和身體部位遠離工具的釘子射出區域。
  - 當任何一個操作控制器被啟動時，請勿裝載釘子於工具中。
  - 請勿使用除了工具操作/安全說明書中指定的電源以外的任何動力來源來操作工具。
  - 請勿使用除了工具操作/安全說明書中指定的操作壓力以外的任何操作壓力來操作工具。
  - 始終選擇適合釘子應用及操作人員訓練的啟動系統。
  - 在將釘子釘入現有牆壁或其他盲區時要格外小心，以避免接觸到隱藏的物體或牆另一側的人員(例如電線、管道)。



- 固定電纜時，請確保電纜未通電。僅握住工具的絕緣握持表面。使用僅適用於電纜安裝的釘子。檢查釘子是否損壞了電纜的絕緣層。損壞電纜絕緣層的釘子可能會導致觸電和火災危險。
- 在以下情況下，請拆卸瓦斯罐和電池：
  - 未使用時；
  - 進行任何維護保養或修理時；
  - 清除卡住的釘子時；
  - 升高、降低或將工具移至新位置時；
  - 工具不在操作人員的視線或控制範圍時；或者
  - 從釘槽中取出釘子時。

### 瓦斯罐安全警告

- 僅使用製造商推薦的瓦斯罐。請閱讀安全數據表以了解更多有關瓦斯罐內容的資訊。
- 根據當地法律回收空的瓦斯罐。
- 請勿嘗試為瓦斯罐充電或焚燒空的瓦斯罐。
- 請勿將瓦斯罐或裝載瓦斯罐的工具暴露在直射陽光下。避免將這些物品放置於高於 120°F (50°C) 的溫度環境中。過熱的瓦斯罐可能導致爆炸或火災。
- 請勿刺穿或嘗試打開瓦斯罐。即使瓦斯罐看似空的，它仍然含有易燃氣體。
- 瓦斯罐的內容物極易燃，請遠離所有火源。

### 電池安全警告

- 僅使用製造商提供的電池。
- 根據當地法規回收電池。不要焚燒、刺穿或壓碎電池。
- 請勿將電池浸入水中或其他液體中。避免電池暴露在雨水或雪中。
- 請勿將電池或裝載電池的工具暴露在直射陽光下。避免將這些物品放置於高於 120°F (50°C) 的溫度環境中。過熱的電池可能導致爆炸或火災。
- 請勿讓電池端子與金屬或導電材料直接接觸。
- 即使工具未使用，也應每三個月為電池充電一次，以防止電池長時間過度放電。

### 電池充電器安全警告

- 請勿在易爆炸環境中使用電池充電器，該電氣設備並非設計用於此類環境。
- 請勿在室外或溫度低於 40°F (5°C) 的環境下充電。
- 請勿刺穿或嘗試打開電池外殼或電池單元。
- 請勿將電池充電器浸入水中或其他液體中。避免電池充電器暴露在雨水或雪中。
- 如果電源線損壞或電池充電器有缺陷，請勿使用該充電器。
- 拔除電池充電器時，應抓住電源適配器本體，而非電源線。
- 請勿用任何物品覆蓋電池充電器。
- 請勿使用升壓變壓器或發電機作為電池充電器的電源。
- 在首次使用新電池之前，請至少充電 6 小時。



### 警告:用於具有接觸啟動功能的工具

- 在撿起工具、在操作區域和位置之間移動或行走時，請勿將手指放在扳機上，因為這樣可能會導致不小心操作。對於具有選擇性啟動的工具，使用前請始終檢查工具，以確保選擇了正確的模式。
- 此工具具有接觸啟動的選擇性啟動功能，或通過啟動模式選擇器進行連續接觸啟動，或是接觸啟動或連續啟動接觸工具，並已標有上述符號。其預期用途包括生產應用，如棧板、家具、預製屋、室內裝潢和夾襯板。
- 如果使用此工具的選擇性啟動模式，請始終確保它處於正確的啟動設置。
- 請勿在如關閉箱子或木條箱以及安裝運輸安全系統於拖車和卡車上的應用中使用此工具的接觸啟動功能。
- 從一個驅動位置變更到另一個位置時，請小心操作。

### 可預見的手持工具一般使用風險

- 工具使用者應評估每次使用時可能存在的具體風險。
- 1 投射物危險
  - 在卸載釘子、調整、清除卡住的物品或更換配件時，應斷開釘子驅動工具。
  - 在操作過程中，確保釘子能正確穿過材料，避免偏移或誤射操作人員或旁觀者。
  - 在操作過程中，工件和緊固/排料系統可能會噴射出碎片。
  - 操作工具時，請始終佩戴具有側面防護的抗衝擊眼睛保護裝置。
  - 操作人員應評估對他人的風險。
  - 對於沒有工件接觸的工具，需格外小心，因為它們可能會意外發射，造成操作人員或旁觀者受傷。
  - 確保工具始終安全地接觸工件，並且不會滑動。

### 2 投射物危險

- 正確握持工具：準備應對正常或突然的移動，例如回彈。
- 保持平衡的身體姿勢和穩固的腳步。
- 應佩戴適當的聽力保護裝置。
- 使用手冊中指示的正確電源供應。
- 操作說明應指導使用者正確使用工具，包括允許的應用範圍和不允許的應用範圍，以及相關風險，例如在卡車後部和移動平台上工作等。
- 操作說明應警告與選擇性啟動相關的風險。

### 3 重複動作危險

- 長時間使用工具時，操作人員可能會感到手臂、肩膀、頸部或身體其他部位的不適。
- 使用工具時，操作人員應採取適當但符合人體工學的姿勢。保持穩固的腳步，避免不自然或失衡的姿勢。
- 如果操作人員感受到持續或反覆出現的不適、疼痛、抽痛、酸痛、刺痛、麻木、燒灼感或僵硬等症狀，請勿忽視這些警告信號。操作人員應諮詢合格的健康專業人士，以了解整體活動。
- 與重複工作相關的風險，例如使用時間、工作位置和力量，可能仍然存在。建議查閱 BS EN 1005-3 和 BS EN 1005-4 以獲取相關資訊。
- 任何風險評估應專注於肌肉骨骼疾病，並基於在工作中減少疲勞能有效降低疾病的假設。

## 4 配件和消耗品危險

- 操作說明應指明適當的配件和消耗品。
- 在更換/替換配件(如接觸工件)或進行任何調整之前，請斷開工具的能源供應，如空氣、氣體或電池(視適用情況而定)。
- 僅使用製造商提供的尺寸和類型的配件。
- 僅使用工具製造商推薦的潤滑劑。
- 可使用的釘子規格應包括最小和最大直徑、長度以及釘子的特徵，例如線徑和角度。

## 5 工作場所危險

- 滑倒、絆倒和摔倒是工作場所受傷的主要原因。使用工具時，應注意因使用工具而導致的滑溜表面，以及由氣管等造成的絆倒危險。
- 在不熟悉的環境中操作時，應更加謹慎。隱藏的危險可能存在，例如電力線路或其他公用設施管線。
- 本工具不適用於易爆炸環境中，並且不具備與電力接觸時的絕緣功能。
- 使用工具時，確保沒有電纜、瓦斯管等，如果損壞可能會引發危險。

## 6 粉塵與排氣危險

- 如果工具在有靜態粉塵的區域使用，可能會攪動粉塵並導致危險。
- 風險評估應包括工具使用過程中產生的粉塵以及可能攪動現有粉塵的風險。
- 應將排氣方向調整，盡量減少在充滿粉塵的環境中對粉塵的擾動。
- 當產生粉塵或排氣危險時，優先應在排放點控制這些危險。

## 7 噪音危險

- 長時間暴露於高噪音環境中，未受保護可能導致永久性聽力損傷及其他問題，如耳鳴(耳朵內的嗡嗡聲、嘶嘶聲、哨聲)。
- 進行風險評估並實施適當的控制措施以應對這些危險至關重要。
- 降低風險的適當控制措施可能包括使用阻尼材料來防止工件產生「嗡嗡聲」。
- 使用適當的聽力保護裝置。
- 按照本手冊中的建議操作和維護工具，防止噪音程度不必要的增加。
- 如果工具配有消音器，確保在操作工具時其始終處於良好工作狀態。

## 8 振動危險

- 進行風險評估並實施適當的控制措施對應對這些危險至關重要。
- 暴露於振動中可能對手部和手臂的神經及血液供應造成傷害，導致嚴重損傷。
- 在寒冷條件下工作時，應穿保暖衣物，保持雙手溫暖乾燥。
- 如果出現手指或手部麻木、刺痛、疼痛或皮膚變白的情況，請尋求合格的職業健康專業人士的醫療建議。
- 按照本手冊中的建議操作和維護工具，防止振動水平不必要的增加。
- 控制力道但安全的握力握住工具，因為當握力增加時，振動帶來的風險通常會更大。

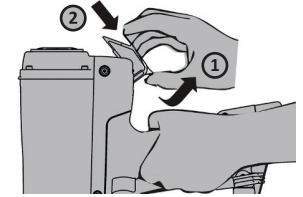
## 瓦斯工具的附加安全說明

- 瓦斯工具只能使用工具操作手冊中列出的瓦斯罐，或由瓦斯罐供應商根據 BS EN ISO 11148-13 標準測試過的瓦斯罐。
- 使用瓦斯工具時要小心，因為工具可能會變熱，影響握把控制。
- 瓦斯釘子驅動工具應在通風良好的空間中使用。
- 如果液態可燃瓦斯接觸到人體皮膚，可能會導致受傷。
- 瓦斯罐應按照相關運輸法規進行標記。
- 小心處理瓦斯罐並檢查是否有損壞。損壞的瓦斯罐可能會爆炸並造成傷害。
- 閱讀並遵循瓦斯罐附帶的使用說明。
- 確保可燃材料不會暴露在熱廢氣中。
- 請勿在易爆區域使用瓦斯工具，因為工具產生的火花可能引起火災或爆炸。
- 對於瓦斯工具，常規操作可能會產生少量氣體釋放。

## 2. 操作說明

### 裝載和卸載瓦斯罐

- 向外拉蓋並旋轉來打開瓦斯罐蓋。
- 將瓦斯罐插入槍體中，對齊瓦斯罐噴嘴與工具上的燃料管。
- 關上瓦斯罐蓋。

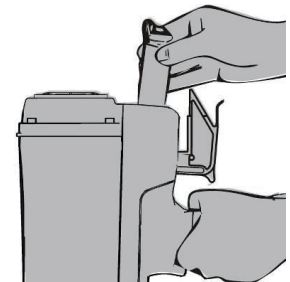


### 裝載和卸載釘子

- 在裝載釘子之前，請先連接電池和瓦斯罐。當連接到電池後，工具會有一次循環的機會。如果在連接電池之前就裝載釘子，釘子可能會意外射出。
- 在裝載釘子時，不要將槍嘴指向任何人員的地方，並保持手指遠離扳機。
- 裝載釘子時，將釘排滑入釘槽中，直到釘排通過擋釘塊。
- 拉開推釘片，直到它超過擋塊。
- 釋放推釘片，使釘排與推釘片對接並送入槍嘴。
- 從釘槽卸載釘子時，按下推釘塊上的釋放桿，並傾斜工具，使釘排滑向釘槽的後端。
- 按下擋釘塊，滑出釘排來卸載。

對於三步驟釘槽設計，遵循相同的安全預防措施，並繼續以下步驟

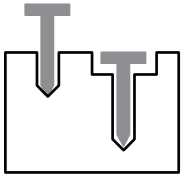
- 要裝載釘子，拉開推釘塊直到它被鎖在釘槽的後端位置。
- 將釘排滑入釘槽中。
- 釋放推釘片，使釘子推入槍嘴。
- 要卸載釘子，拉開推釘塊至後端鎖定位置。將釘子從釘槽中滑出。





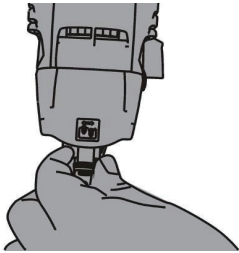
### 深度調整

- 這個工具配備了深度調整功能。在開始工作之前，請先在廢料上測試釘子的深度。
- 旋轉調節旋鈕以調整釘子深度。
- 重複以上步驟，直到找到所需的釘子深度設置。



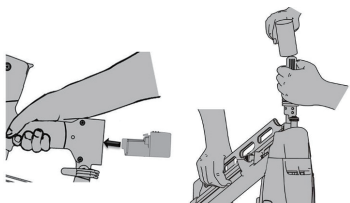
### 啟動方式及操作步驟

- 這個工具僅配備完全循序性啟動。
- 要啟動工具，先將保險抵住工件，然後扣壓扳機。
- 要再次啟動工具，您需要完全釋放保險和扳機，然後再重複上述步驟。
- 在扣壓扳機之前，確保工具抵住工件。



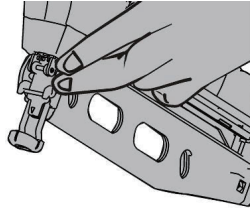
### 清除釘槍卡釘狀況

- 若釘子卡住，請在進行任何操作前斷開動力來源(包括瓦斯罐和電池)。
- 使用PH2十字螺絲刀插入驅動通道。
- 用錘子輕敲螺絲刀，將撞針推回並釋放卡住的釘子。
- 使用尖嘴鉗或類似工具移除卡住的釘子。請勿用手取出釘子。
- 若上述方法無法移除卡住的釘子，請卸下彈匣，旋開連接螺栓，然後用尖嘴鉗移除卡住的釘子。重新組裝彈匣後再繼續使用。



### 清除F釘槍卡釘狀況

- 若釘子卡住，請在進行任何操作前斷開電池。
- 釋放拉柄，打開撞針導板。
- 使用尖嘴鉗或類似工具移除卡住的釘子。請勿用手取出釘子。
- 清除卡釘後，請重新固定好撞針導板。

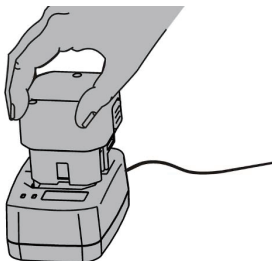


### 清除卡釘狀況(適用於在混凝土的釘槍)

- 若釘子卡住，請在進行任何操作前斷開電池。
- 如果您的工具配備有卡釘清除槽，請打開側面的快速卡釘清除槽來看清楚卡住的釘子。
- 如果您的工具配備有可拆卸槍嘴，請按下釋放按鈕並拔掉槍嘴。
- 使用尖嘴鉗或類似工具移除卡住的釘子。請勿用手取出釘子。
- 清除卡釘後，關上卡釘清除槽或把槍嘴裝回去。

### 工具和電池充電器上的LED燈會在充電時亮起

- 工具隨附的電池需要充電2小時才能完全充滿。
- 當電池充電器接通電源且未安裝電池時，LED燈會亮起。
- 當充電器正在充電電池時，LED指示燈會變為紅色。
- 當電池充滿電時，LED指示燈會變為綠色。
- 如果電池故障，紅綠LED燈將交替閃爍。
- 當工具連接到充電的電池時，工具上的LED指示燈會變為綠色。
- 如果工具電池即將耗盡，LED指示燈將變為紅色。當LED指示燈變紅時，請停止使用工具並更換電池。



### 維護說明

#### 一般維護

- 雇主和工具操作人員有責任確保工具保持在安全工作狀態。此外，只有由原廠、經銷商或雇主培訓過的服務人員才能修理該工具，並且應使用由原廠/經銷商提供或推薦的零件或配件。
- **▲警告：**進行任何維護保養前，請確認已經斷開電池。
- 隨時保持工具清潔。用乾淨的布擦拭掉油脂或潤滑油，以防止工具意外掉落。避免使用溶劑類清潔劑清潔工具，因為某些溶劑可能會損壞或削弱工具的複合材料零件。定期清潔空氣濾網，使工具可以發揮最佳效率。
- 在有任何疑慮的情況下，絕對不要使用工具。
- **廢棄物處理：**遵循各國廢棄物處理規定，以免對自身和環境造成危害。

#### 潤滑與清潔

- 此工具通常不需要額外潤滑，因為燃料中已包含一些潤滑油。
- 可以使用汽車化油器清潔劑清潔燃燒室和氣缸。您需要拆下手柄上的2顆螺絲和頂蓋上的4顆螺絲，以露出氣缸內部組件。

#### 寒冷天氣

- 此工具不建議在寒冷的天氣中使用。寒冷的天氣會降低燃燒效率和電池性能。請僅在溫度高於-7°C (19°F) 時使用此工具。

#### 保存

- 長時間不使用時，請在鋼製零件上塗抹一層薄薄的潤滑液，以防止生鏽。不要將釘槍貯放在寒冷的環境中。不使用時，應將釘槍貯存在溫暖乾燥的地方；請將其放在兒童無法拿到的地方。

4. 故障排除

異常提示	處理方法
紅色LED指示燈亮起且工具無法操作。	<ul style="list-style-type: none"><li>■ 電量可能太低。</li><li>■ 請更換已充飽電的電池。</li></ul>
工具正常運作但無法將釘子固定到位。	<ul style="list-style-type: none"><li>■ 將驅動深度設置調整到最深位置。</li><li>■ 使用適當的清潔劑清潔氣缸。</li><li>■ 檢查電池並在需要時更換。</li><li>■ 按下保險並保持 1 分鐘後再扣壓扳機。如果工具仍無法發射，可能是燃燒室密封有漏氣情況。請送至您附近的服務中心進行檢修。</li></ul>
風扇無法運行且指示燈顯示紅色。	<ul style="list-style-type: none"><li>■ 電池已耗盡，請更換已充飽電的電池。</li><li>■ 電池端子髒污或有油漬。請用乾淨的布清潔電池節點。</li><li>■ 如果以上方法均無效，請將設備送至您附近的服務中心。</li></ul>
電池無法充電，或充電時充電器過熱。	<ul style="list-style-type: none"><li>■ 更換電池。如果這樣可以解決問題，則表示電池已損壞或耗盡。</li><li>■ 如果電池在工具上能正常運作，但無法在充電器上充電，請更換充電器。</li></ul>
充電器過熱、發出噪音或開始冒煙	<ul style="list-style-type: none"><li>■ 充電器已損壞，不應再使用。請立即拔掉充電器並更換為新的充電器。</li></ul>
工作接觸元件未完全壓下，工具無法使用。	<ul style="list-style-type: none"><li>■ 工作接觸元件彎曲，或保險的軌道因積灰而變黏。請清潔保險軌道，修理或更換工作接觸元件。</li><li>■ 鎖定機制已啟動。請裝載更多釘子。</li></ul>
工具無法運作，指示燈顯示為綠色且風扇運轉。	<ul style="list-style-type: none"><li>■ 燃料用盡，請更換新的瓦斯罐。</li><li>■ 高壓導線鬆動，請卸下頂蓋檢查高壓導線。</li><li>■ 火星塞髒了。請清潔火星塞。</li><li>■ 如果以上方法均無效，請將設備送至您附近的服務中心。</li></ul>
工具正常運作，但無法驅動釘子。	<ul style="list-style-type: none"><li>■ 使用了錯誤規格的釘子。請更換為正確的釘子規格。</li><li>■ 氣缸需要清潔。</li><li>■ 卡釘時，請先清除卡釘再使用。</li><li>■ 釘子推動器未與釘排完全接合，請調整至完全接合。</li></ul>
燃燒室無法返回初始位置。	<ul style="list-style-type: none"><li>■ 工作接觸元件彎曲或髒污。檢查工作接觸元件並進行修理或更換。清潔保險軌道。</li></ul>
驅動器無法返回初始位置，射歪頻率比平常更高。	<ul style="list-style-type: none"><li>■ 檢查並在更換瓦斯罐。</li><li>■ 使用適當的清潔液清潔工具。</li><li>■ 檢查活塞環的磨損情況。</li><li>■ 工具可能過熱。清潔或更換進氣濾網。</li></ul>
工具似乎出現功率下降的情況。	<ul style="list-style-type: none"><li>■ 檢查瓦斯罐。</li><li>■ 清潔或更換進氣濾網。</li><li>■ 檢查高壓導線。</li><li>■ 使用適當的清潔液清潔工具。</li></ul>
若出現上述情況以外的故障，請立即停止使用工具並聯繫當地經銷商尋求服務。	