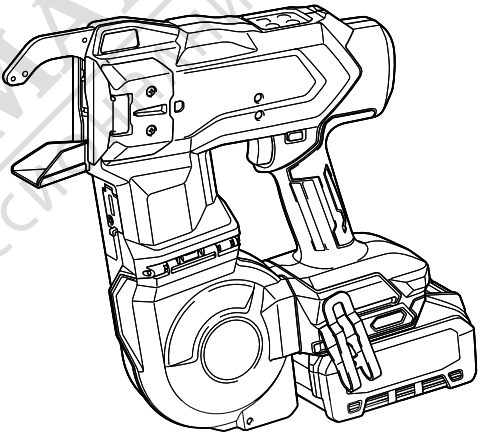
ENGLISH: Original instructions

INSTRUCTION MANUAL

Cordless Rebar Tying Tool

TR001G



Read before use.

SPECIFICATIONS

Model:	TR001G
Overall length (with BL4040)	375 mm
Rated voltage	D.C. 36 V - 40 V max
Net weight	3.3 - 4.5 kg

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.
- Specifications and battery cartridge may differ from country to country.
- The net weight value includes the lightest and heaviest combination of the attachment(s) for normal and safe use and battery cartridge(s) which are specified in the instruction manual.

Applicable battery cartridge and charger

Battery cartridge	BL4020* / BL4025* / BL4040* / BL4040F* / BL4050F* / BL4080F * : Recommended battery
Charger	DC40RA / DC40RB / DC40RC / DC40WA / BCC01 / BCC02

- Some of the battery cartridges and chargers listed above may not be available depending on your region of residence.

⚠***WARNING:*** **Only use the battery cartridges and chargers listed above.** Use of any other battery cartridges and chargers may cause injury and/or fire.

Tie wire specifications

Optional accessory

Tie wire type		Annealing iron tie wire
Diameter		ø1.6 mm
Approximate number of ties per reel	#3 x #3 (10 mm x 10 mm)	Approximately 240 ties
	#5 x #5 (16 mm x 16 mm)	Approximately 190 ties
	#10 x #5 x #5 (32 mm x 16 mm x 16 mm)	Approximately 140 ties

Combination of rebars that can be tied

Combination of 2 rebars

	#3 (10 mm)	#4 (13 mm)	#5 (16 mm)	#6 (19 mm)	#7 (22 mm)	#8 (25 mm)
#3 (10 mm)	✓	✓	✓	✓	✓	✓
#4 (13 mm)	✓	✓	✓	✓	✓	✓
#5 (16 mm)	✓	✓	✓	✓	✓	✓
#6 (19 mm)	✓	✓	✓	✓	✓	✓
#7 (22 mm)	✓	✓	✓	✓	✓	✓
#8 (25 mm)	✓	✓	✓	✓	✓	✓
#9 (29 mm)	✓	✓	✓	✓	✓	✓
#10 (32 mm)	✓	✓	✓	✓	✓	-
#11 (35 mm)	✓	✓	✓	✓	-	-

Combination of 3 rebars

	#3 x #3 (10 mm x 10 mm)	#4 x #4 (13 mm x 13 mm)	#5 x #5 (16 mm x 16 mm)	#6 x #6 (19 mm x 19 mm)	#7 x #7 (22 mm x 22 mm)	#8 x #8 (25 mm x 25 mm)
#3 (10 mm)	✓	✓	✓	✓	✓	✓
#4 (13 mm)	✓	✓	✓	✓	✓	-
#5 (16 mm)	✓	✓	✓	✓	-	-
#6 (19 mm)	✓	✓	✓	✓	-	-
#7 (22 mm)	✓	✓	✓	✓	-	-
#8 (25 mm)	✓	✓	✓	✓	-	-
#9 (29 mm)	✓	✓	✓	-	-	-
#10 (32 mm)	✓	✓	✓	-	-	-

Combination of 4 rebars

	#3 x #3 (10 mm x 10 mm)	#4 x #4 (13 mm x 13 mm)	#5 x #5 (16 mm x 16 mm)
#3 x #3 (10 mm x **10 mm**)	✓	✓	✓
#4 x #4 (13 mm x **13 mm**)	✓	✓	✓
#5 x #5 (16 mm x **16 mm**)	✓	✓	✓

NOTICE: If there is a gap between rebars or if the tool is used at an incorrect orientation, the rebars may not be able to be tied.

Symbols

The followings show the symbols which may be used for the equipment. Be sure that you understand their meaning before use.


Read instruction manual.


Wear eye protection.


Do not expose to rain.


Keep hands away from the wire reel or wire when operating the tool.


Keep hands away from the tool tip.

Only for EU countries
Due to the presence of hazardous components in the equipment, waste electrical and electronic equipment, accumulators and batteries may have a negative impact on the environment and human health.
Do not dispose of electrical and electronic appliances or batteries with household waste!
In accordance with the European Directive on waste electrical and electronic equipment and on accumulators and batteries and waste accumulators and batteries, as well as their adaptation to national law, waste electrical equipment, batteries and accumulators should be stored separately and delivered to a separate collection point for municipal waste, operating in accordance with the regulations on environmental protection.
This is indicated by the symbol of the crossed-out wheeled bin placed on the equipment.

Intended use

The tool is intended for tying rebars.

Noise

The typical A-weighted noise level determined according to EN60745-2-18:
Sound pressure level (L_{pA}) : 80 dB (A)
Sound power level (L_{WA}) : 88 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) can also be used in a preliminary assessment of exposure.

⚠***WARNING:*** **Wear ear protection.**

⚠***WARNING:*** **The noise emission during actual use of the power tool can differ from the declared total value(s) depending on the ways in which the tool is used.**

⚠***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

The continuous vibration total value (tri-axial vector sum) determined according to EN60745-2-18:
Work mode: Tying metal rod
Vibration emission (a_h) : 2.5 m/s^2 or less
Uncertainty (K) : 1.5 m/s^2

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) can 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 total value(s) depending on the ways in which the tool is used.**

⚠***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).**

Declarations of Conformity

For European countries only

The Declarations of conformity are included in Annex A to this instruction manual.

SAFETY WARNINGS

General power tool safety warnings

⚠***WARNING*** **Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work area safety

1. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **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.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

Electrical safety

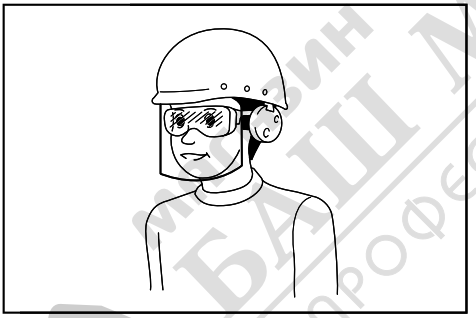
1. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
2. **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
3. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
4. **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.
5. **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.
6. **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.
7. **Power tools can produce electromagnetic fields (EMF) that are not harmful to the user.** However, users of pacemakers and other similar medical devices should contact the maker of their device and/or doctor for advice before operating this power tool.

Personal safety

1. **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.
2. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
3. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting**

to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

4. **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.
5. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
6. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
7. **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.
8. **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.
9. **Always wear protective goggles to protect your eyes from injury when using power tools. The goggles must comply with ANSI Z87.1 in the USA, EN 166 in Europe, or AS/NZS 1336 in Australia/New Zealand. In Australia/New Zealand, it is legally required to wear a face shield to protect your face, too.**



It is an employer's responsibility to enforce the use of appropriate safety protective equipments by the tool operators and by other persons in the immediate working area.

Power tool use and care

1. **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.
2. **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.
3. **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
4. **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.
5. **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
6. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. **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.
8. **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.
9. **When using the tool, do not wear cloth work gloves which may be entangled.** The entanglement of cloth work gloves in the moving parts may result in personal injury.

Battery tool use and care

1. **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.
2. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
3. **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.
4. **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.
5. **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
6. **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.
7. **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

1. **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.
2. **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.
3. **Follow instruction for lubricating and changing accessories.**

Cordless rebar tying tool safety warnings

1. **Never point the tool toward a person. Never put your hands or feet close to the tool tip.** If you accidentally operate the tool while it is touching someone, it will lead to an unexpected accident.
2. **Do not load wire while the power to the tool is turned on.** Otherwise, you may get caught in the wire and injured.
3. **Do not use the tool without closing the reel cover.** Otherwise, the wire reel may come off and cause an accident.
4. **Be sure to check that the diameters of rebars to be tied are within the tool capacity before beginning work.**
5. **Wear clothes that have close-fitting hemlines and sleeves. Do not work with a towel or other object wrapped around your neck.** Otherwise, they may get caught in the rotating part and cause an accident.
6. **Be sure to inspect the following points before using the tool.**
   - **Check that no parts are damaged**
   - **Check that no bolts are loose**
   - **Check that safety devices operate normally**
7. **If any abnormalities are found, stop using the tool immediately. Do not repair the tool by yourself. Ask your local Makita Service Center for repairs.** If the tool is used in an incomplete state, an accident may occur.
8. **When installing the battery cartridge, be sure to lock the trigger and do not place your finger on the trigger.** Incorrect operation may cause an accident.
9. **When tying rebars, exercise care not to move them.** If rebars move due to tying, you may be injured.
10. **Do not touch the wires during the wire tying process.** Otherwise, you may get caught in the wire and injured.
11. **Do not bring your hands close to the tying point during the wire tying process.** Otherwise, you may get caught in the wire and injured.
12. **Hold the grip of the tool firmly during the wire tying process.** Otherwise, your wrist may be twisted or your body may be pulled, which may result in an injury.
13. **Do not move to the next tying point until the current wire tying process is completed.** Otherwise, you may be injured.
14. **Pay attention to the end of the wire during the wire tying process.** Otherwise, your hand may be caught by the end of the wire, and you may be injured.
15. **Do not touch the side plate during the wire tying process. If you need to touch the side plate, be sure to lock the trigger, or turn the power button off and remove the battery cartridge.** Otherwise, you may be injured.
16. **When you have completed the wire tying process, pull the tool up vertically.** Otherwise, the arm may be caught on rebars, which may cause an accident.
17. **Be careful not to drop, bump, or hit the tool. If a strong impact is applied prior to the tool being used, make sure that the tool is not damaged or cracked, and that the safety devices operate normally.** Otherwise, an accident may occur.
18. **If any of the following phenomena occur, lock the trigger, turn the power button off, and remove the battery cartridge from the tool.** If the tool operates incorrectly, an accident may occur.
    - **If an operating sound is heard as soon as the battery cartridge is mounted.**
    - **If overheating or abnormal smells or noises are detected.**
    - **When you are taking measures in response to the error display. (Ask your local Makita Service Center for repairs.)**
    - **When loading or unloading a wire reel.**
    - **When you move while holding the tool during work.**
    - **When you do not use the tool.**
    - **When you inspect or adjust the tool.**
    - **When you remove a stranded wire.**
19. **When working on scaffolding, always stabilize it and work using a posture that will ensure you maintain your balance.** If scaffolding is unstable, an accident may occur.
20. **When working on a roof or similar locations, move in a forward direction while working so that you can see where you are going.** If you move in a backward direction while working, you may lose your footing and cause an accident.
21. **If you are working in a highly elevated location, ensure that no one is below you, and pay attention to ensure you do not drop any tools while working.** Dropping the tool may cause an accident.
22. **Do not use the tool for any work other than wire tying.** Otherwise, an accident may occur.
23. **Always use Makita's genuine wires. If wires are not used for a long period of time, they may rust. Do not use rusted wires.** Otherwise, they may cause an accident.
24. **After tying, make sure that the rebars are properly tied.**
    - **If any wires are broken, tying strength will be lost. Adjust the tying strength, and tie the rebars again.**
    - **If the rebars are not properly tied, check the combination of the rebars and the**

tying work described in this instruction manual and the amount of wire remaining. Then, tie the rebars again.

25. **Securely place the side plate against the rebars.** If the side plate is not securely positioned, a clearance will be created between the rebars, and tying strength will be compromised.

Important safety instructions for battery cartridge

1. **Before using battery cartridge, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.**
2. **Do not disassemble or tamper with the battery cartridge.** It may result in a fire, excessive heat, or explosion.
3. **If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.**
4. **If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away. It may result in loss of your eyesight.**
5. **Do not short the battery cartridge:**
   (1) **Do not touch the terminals with any conductive material.**
   (2) **Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.**
   (3) **Do not expose battery cartridge to water or rain.**

   A battery short can cause a large current flow, overheating, possible burns and even a breakdown.
6. **Do not store and use the tool and battery cartridge in locations where the temperature may reach or exceed 50 °C (122 °F).**
7. **Do not incinerate the battery cartridge even if it is severely damaged or is completely worn out. The battery cartridge can explode in a fire.**
8. **Do not nail, cut, crush, throw, drop the battery cartridge, or hit against a hard object to the battery cartridge.** Such conduct may result in a fire, excessive heat, or explosion.
9. **Do not use a damaged battery.**
10. **The contained lithium-ion batteries are subject to the Dangerous Goods Legislation requirements.**
    For commercial transports e.g. by third parties, forwarding agents, special requirement on packaging and labeling must be observed.
    For preparation of the item being shipped, consulting an expert for hazardous material is required.
    Please also observe possibly more detailed national regulations.
    Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packaging.
11. **When disposing the battery cartridge, remove it from the tool and dispose of it in a safe place. Follow your local regulations relating to disposal of battery.**
12. **Use the batteries only with the products specified by Makita.** Installing the batteries to non-compliant products may result in a fire, excessive heat, explosion, or leak of electrolyte.
13. **If the tool is not used for a long period of time, the battery must be removed from the tool.**
14. **During and after use, the battery cartridge may take on heat which can cause burns or low temperature burns. Pay attention to the handling of hot battery cartridges.**
15. **Do not touch the terminal of the tool immediately after use as it may get hot enough to cause burns.**
16. **Do not allow chips, dust, or soil stuck into the terminals, holes, and grooves of the battery cartridge.** It may cause heating, catching fire, burst and malfunction of the tool or battery cartridge, resulting in burns or personal injury.
17. **Unless the tool supports the use near high-voltage electrical power lines, do not use the battery cartridge near high-voltage electrical power lines.** It may result in a malfunction or breakdown of the tool or battery cartridge.
18. **Keep the battery away from children.**

SAVE THESE INSTRUCTIONS.

⚠***CAUTION:*** **Only use genuine Makita batteries.** Use of non-genuine Makita batteries, or batteries that have been altered, may result in the battery bursting causing fires, personal injury and damage. It will also void the Makita warranty for the Makita tool and charger.

NOTICE: Makita is not responsible for any accidents resulting from the use of non-genuine Makita batteries or batteries that have been modified. Genuine Makita batteries have been rigorously evaluated for compatibility with Makita tools and chargers, in line with applicable legislation and safety standards.

Tips for maintaining maximum battery life

1. **Charge the battery cartridge before completely discharged. Always stop tool operation and charge the battery cartridge when you notice less tool power.**
2. **Never recharge a fully charged battery cartridge. Overcharging shortens the battery service life.**
3. **Charge the battery cartridge with room temperature at 10 °C - 40 °C (50 °F - 104 °F). Let a hot battery cartridge cool down before charging it.**
4. **When not using the battery cartridge, remove it from the tool or the charger.**
5. **Charge the battery cartridge if you do not use it for a long period (more than six months).**

FUNCTIONAL DESCRIPTION

⚠***CAUTION:*** **Always be sure that the tool is switched off and the battery cartridge is removed before adjusting or checking function on the tool.**

Installing or removing battery cartridge

⚠***CAUTION:*** **Always switch off the tool before installing or removing of the battery cartridge.**

⚠***CAUTION:*** **Hold the tool and the battery cartridge firmly when installing or removing battery cartridge.** Failure to hold the tool and the battery cartridge firmly may cause them to slip off your hands and result in damage to the tool and battery cartridge and a personal injury.

To install the battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Insert it all the way until it locks in place with a little click. If you can see the red indicator as shown in the figure, it is not locked completely.

To remove the battery cartridge, slide it from the tool while sliding the button on the front of the cartridge.

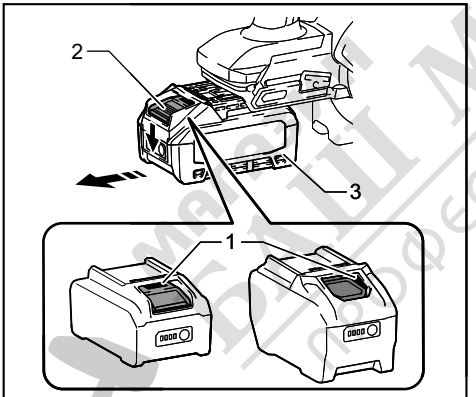


Fig.1

► **1.** Red indicator **2.** Button **3.** Battery cartridge

⚠***CAUTION:*** **Always install the battery cartridge fully until the red indicator cannot be seen.** If not, it may accidentally fall out of the tool, causing injury to you or someone around you.

⚠***CAUTION:*** **Do not install the battery cartridge forcibly.** If the cartridge does not slide in easily, it is not being inserted correctly.

Indicating the remaining battery capacity

Press the check button on the battery cartridge to indicate the remaining battery capacity. The indicator lamps light up for a few seconds.

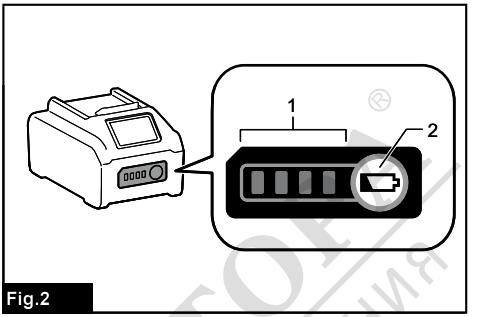


Fig.2

► **1.** Indicator lamps **2.** Check button

Indicator lamps			Remaining capacity
Lighted	Off	Blinking	
■ ■ ■ ■			75% to 100%
■ ■ ■ □			50% to 75%
■ ■ □ □			25% to 50%
■ □ □ □			0% to 25%
◪ □ □ □			Charge the battery.
■ ■ □ □ ↑ ↓ □ □ ■ ■			The battery may have malfunctioned.

NOTE: Depending on the conditions of use and the ambient temperature, the indication may differ slightly from the actual capacity.

NOTE: The first (far left) indicator lamp will blink when the battery protection system works.

Tool / battery protection system

The tool is equipped with a tool/battery protection system. This system automatically cuts off power to the motor to extend tool and battery life. The tool will automatically stop during operation if the tool or battery is placed under one of the following conditions:

Overload protection

When the tool or battery is operated in a manner that causes it to draw an abnormally high current, the tool automatically stops and the corresponding error number blinks on the display panel and an error tone will sound. In this situation, turn the tool off and stop the application

that caused the tool to become overloaded. Then turn the tool on to restart.

Overheat protection

When the tool or battery is overheated, the tool stops automatically and the corresponding error number blinks on the display panel and an error tone will sound. In this case, let the tool and battery cool before turning the tool on again.

Overdischarge protection

When the battery capacity is not enough, the tool stops automatically and the corresponding error number blinks on the display panel and an error tone will sound. In this case, remove the battery from the tool and charge the battery.

Protections against other causes

Protection system is also designed for other causes that could damage the tool and allows the tool to stop automatically. Take all the following steps to clear the causes, when the tool has been brought to a temporary halt or stop in operation.

1. Make sure that all switch(es) is/are in the off position, and then turn the tool on again to restart.
2. Charge the battery(ies) or replace it/them with recharged battery(ies).
3. Let the tool and battery(ies) cool down.

If no improvement can be found by restoring protection system, then contact your local Makita Service Center.

Power button

⚠***CAUTION:*** **When you turn the power on, never bring your limbs or face close to the binding or rotating parts of the tool tip.** Otherwise, you may be injured.

⚠***CAUTION:*** **When the power is turned on, never touch the binding or rotating parts of the tool tip.** Otherwise, you may be injured.

⚠***CAUTION:*** **Before inserting the battery cartridge, be sure to release your fingers from the switch trigger and lock the trigger.** If you insert the battery cartridge while the switch trigger is being pulled, it may cause an accident if the wire tying process is accidentally carried out.

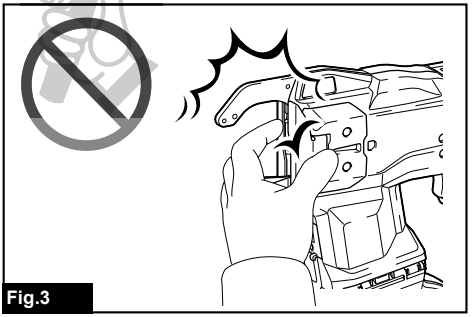


Fig.3

When you press the power button, the power turns on. In order for the tool to adjust its initial position, it operates temporarily. When adjustment has completed, the tool stops automatically. When you press the power button again, the power turns off.

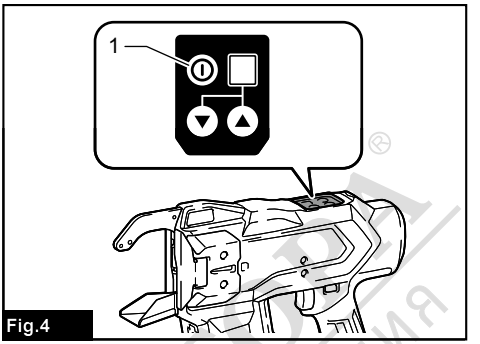


Fig.4

► **1.** Power button

NOTE: The tool has an auto power-off function. If the switch trigger is not pulled for approximately 10 minutes, the tool is automatically turned off to reduce battery power consumption.

Switch action

⚠***WARNING:*** **Before installing the battery cartridge into the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.**

⚠***CAUTION:*** **When not operating the tool, lock the switch trigger in the OFF position.** Failure to do so may result in injury.

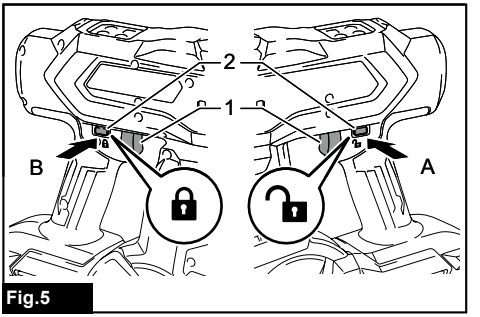


Fig.5

► **1.** Switch trigger **2.** Trigger-lock button

To prevent the switch trigger from accidentally pulled, the trigger-lock button is provided. To start the tool, depress the trigger-lock button from A side and pull the switch trigger. Release the switch trigger to stop. After use, press in the trigger-lock button from B side.

When you pull the switch trigger, the tool performs the next sequential operations as follows, and the tool stops automatically.

1. Feed the wire.
2. Cut the wire.

3. The rotating parts hold and twist the wire.
4. The rotating parts return to the original position.

NOTE: The rotating parts of the tool tip may rotate automatically between operations.

Tying strength setting

CAUTION: **Be sure to lock the trigger before starting the adjustment. When you turn the power on, never bring your limbs or face close to the binding or rotating parts of the tool tip.** Otherwise, you may be injured.

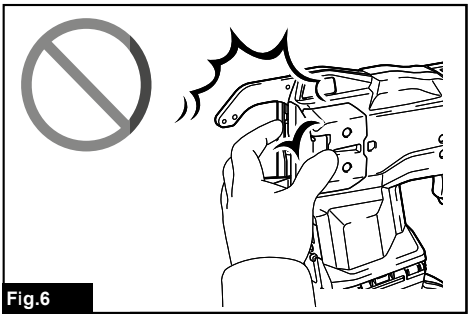


Fig.6

You can set the tying strength by adjusting the tying strength adjusting button. Tying strength is shown on the display panel.
The higher the number shown on the display panel, the stronger the tying strength.

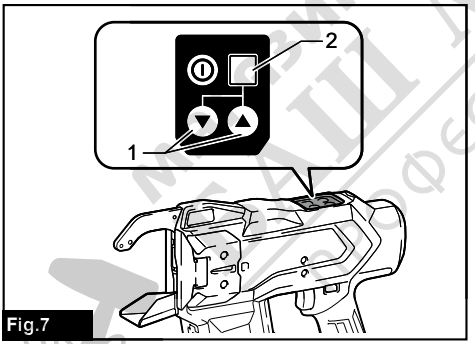


Fig.7

► **1.** Tying strength adjusting button **2.** Display panel

If the wire is broken off, tying strength will be lost. After tying, check the twisted portion for breakage.
If the wire is broken off, adjust the tying strength using the tying strength adjusting button, and tie the rebars again.

Accidental re-start preventive function

Even if you press the power button while pulling the switch trigger, the tool does not start, an error tone will sound and the number "2" will blink on the display panel.
To start the tool, restore the tool in the following.

1. Release the switch trigger.
2. Press the power button to turn off the power.
3. Press the power button again to turn on the power.

Remaining battery notification

When the battery voltage drops below the required level, the tool will stop operating, an error tone will sound, and the number "4" will blink on the display panel. The error tone will continue to sound until the power is turned off.

NOTE: If the ambient temperature is extremely low, the error tone may sound even when the battery contains sufficient power.

ASSEMBLY

CAUTION: **Always be sure that the tool is switched off and the battery cartridge is removed before carrying out any work on the tool.**

Loading or unloading the tie wire (wire reel)

CAUTION: **Before mounting or dismounting tie wires and accessories, be sure to turn the power off, lock the trigger, and remove the battery cartridge.** Failure to do so may cause an accident.

CAUTION: **Be careful with the wire ends when handling the wire reel.** Wire ends are sharp and may cause injury.

CAUTION: **When removing the wire from the wire hook on the reel, remove the wire while holding the coiled part of the wire reel with your hand.** Otherwise, the wire may unwind and cause injury.

CAUTION: **Be careful not to get your fingers caught between the tool and the reel cover when closing the reel cover.** The reel cover may close automatically and cause injury.

NOTICE: **Use Makita's genuine tie wires.** Using wires other than Makita's genuine tie wires may cause the tool to malfunction and may not ensure the tying quality.

Loading the tie wire (wire reel)

1. Open the reel cover while pressing the lock button.

When the reel cover is opened, a gap is created between the gears.

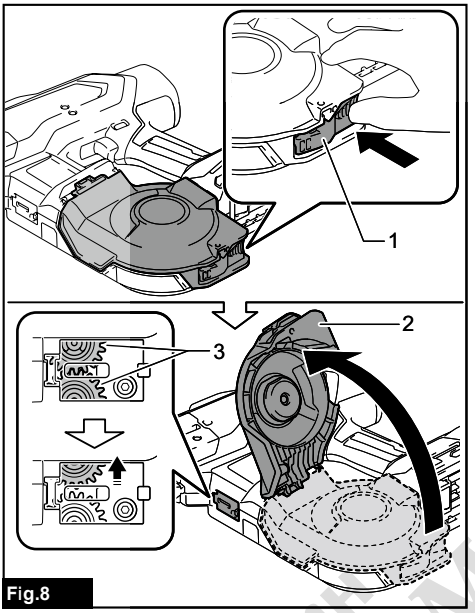


Fig.8

► **1.** Lock button **2.** Reel cover **3.** Gear

2. Mount the **wire reel on the tool in the orientation** shown in the figure.

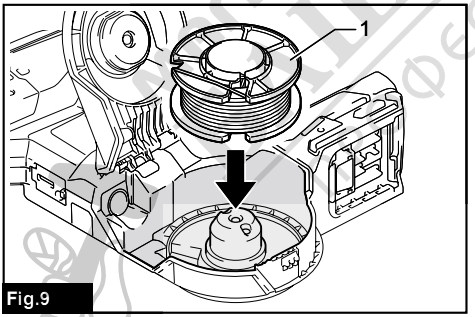


Fig.9

► **1.** Wire reel

NOTICE: **Be sure to mount the wire reel in the orientation shown in the figure.** If it is mounted the other way around, the reel cover cannot be closed.

3. Pass the wire through the guide after straightening the tip of the wire, and then pass the wire between the gears until the wire exceeds the rotation axis of the gears.

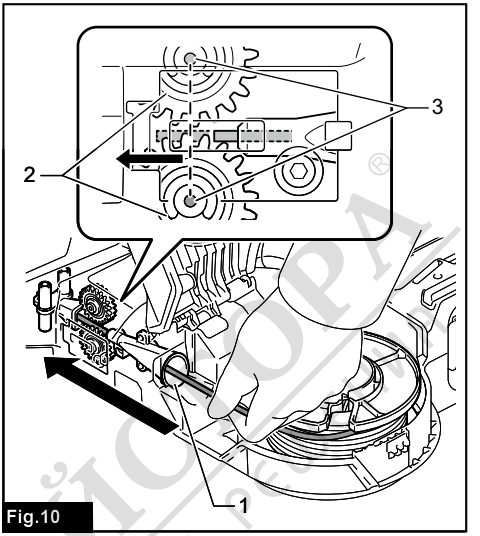


Fig.10

► **1.** Guide **2.** Gear **3.** Rotation axis of the gear

NOTE: If the tip of the wire is bent when it is passed through the guide, the wire may become jammed in the tool.

NOTE: If you force the wire when trying to pass it through the guide, the wire may become jammed.

4. Close the reel cover until it locks in the place with a little click.

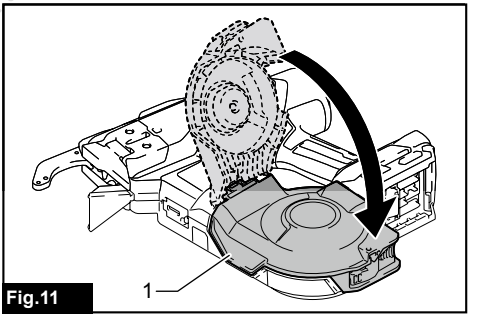


Fig.11

► **1.** Reel cover

Unloading the tie wire (wire reel)

To remove the tie wire (wire reel), open the reel cover while pressing the lock button. Take out the wire reel from the tool.

Installing or removing the hook

⚠*WARNING:* Use the hanging/mounting parts for their intended purposes only, e.g., hanging the tool on a tool belt between jobs or work intervals.

⚠*WARNING:* Be careful not to overload the hook as too much force or irregular overburden may cause damages to the tool resulting in personal injury.

⚠*CAUTION:* When installing the hook, always secure it with the screw firmly. If not, the hook may come off from the tool and result in the personal injury.

⚠*CAUTION:* Make sure to hang the tool securely before releasing your hold. Insufficient or unbalanced hooking may cause falling off and you may be injured.

The hook is convenient for temporarily hanging the tool. This can be installed on either side of the tool. To install the hook, insert it into a groove in the tool housing on either side and then secure it with a screw. To remove, loosen the screw and then take it out.

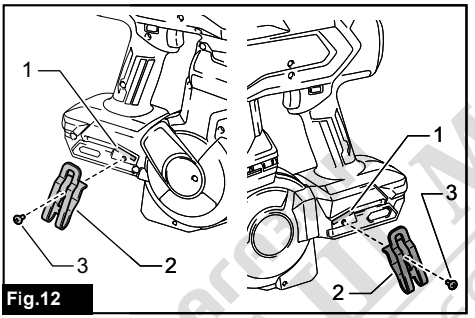


Fig.12

► **1.** Groove **2.** Hook **3.** Screw

OPERATION

Checking before work

⚠*CAUTION:* If the tool has a safety mechanism-related problem, do not use it. If you continue to use it, an accident may occur.

Before using the tool, check the following and make sure that the safety mechanism operates normally. If the tool operates without the safety mechanism operating, stop using the tool immediately. Ask your local Makita Service Center for repairs.

Checking the window

The tool has the window to check the wire position. Make sure that the window is bolted and closed to prevent foreign objects from entering.

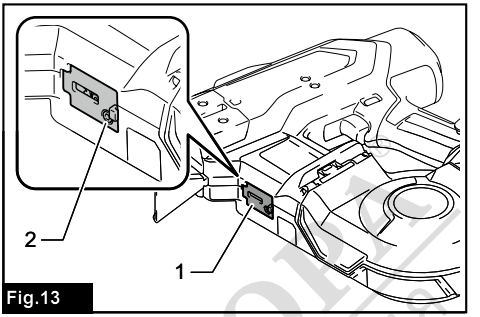


Fig.13

► **1.** Window **2.** Bolt

Checking the trigger-lock

The tool has the trigger-lock to prevent the tool from operating when you do not intend to use it. Lock the trigger and confirm that the switch trigger cannot be pulled.

Checking the side plate

The tool has the side plates to prevent the operator from touching the binding or rotating parts of the tool tip by mistake. Operate the tool after confirming that the side plates are closed.

If the switch trigger is pulled or the power is turned on while the side plates are opened, the tool does not start, an error tone will sound and the number "2" will blink on the display panel.

In this case, close the side plate after locking the trigger, turning the power off and removing the battery cartridge.

If the side plates become difficult to close, see the section "*Cleaning the side plate*" and close the side plates.

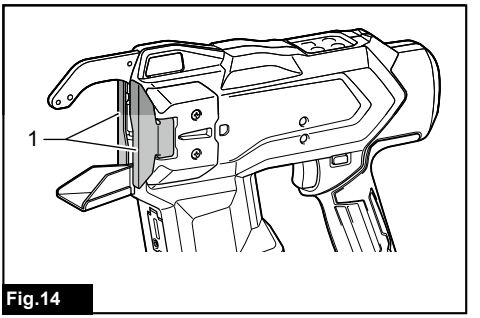


Fig.14

► **1.** Side plate

Tying work

⚠***CAUTION:*** **Before inserting the battery cartridge, be sure to release your fingers from the switch trigger and lock the trigger.** If you insert the battery cartridge while the switch trigger is being pulled, it may cause an accident if the wire tying process is accidentally carried out.

⚠***CAUTION:*** **When you turn the power on, never bring your limbs or face close to the binding or rotating parts of the tool tip.** Otherwise, you may be injured.

⚠***CAUTION:*** **When the power is turned on, never touch the binding or rotating parts of the tool tip.** Otherwise, you may be injured.

⚠***CAUTION:*** **Place the tool vertically over the rebars and press the side plate on the tying point when tying.** Failure to do so may cause injury.

⚠***CAUTION:*** **When tying the rebars, align the center mark on the tool with the tying point of the rebars.** Failure to do so may result in tying errors or loss of the tying strength.

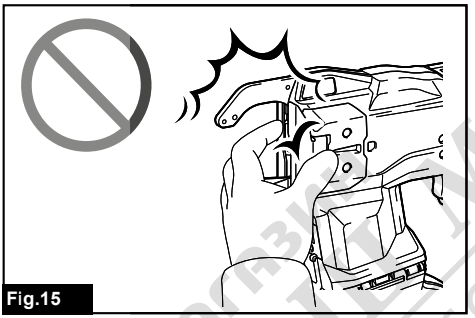


Fig.15

Preparation before work

1. Make sure that the battery cartridge is removed and the trigger is locked.

2. Insert the battery cartridge into the tool, and turn the power on. When you turn the power on, the wire is cut automatically.

3. Release the trigger lock.

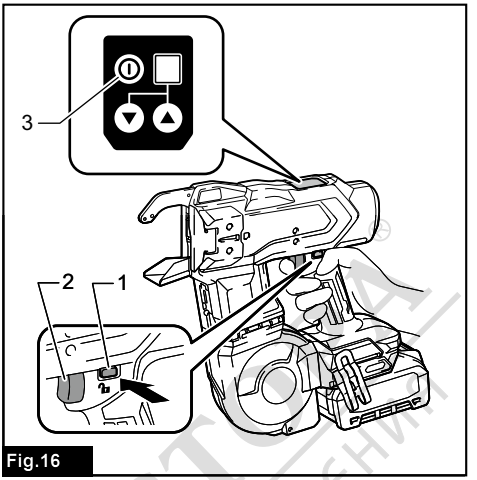


Fig.16

► **1.** Trigger-lock button **2.** Switch trigger **3.** Power button

Tying

1. Align the center mark on the tool with the tying point. Make sure to place the tool vertically over the rebars and press the tool on the tying point at a 45° angle against the crossed rebars.

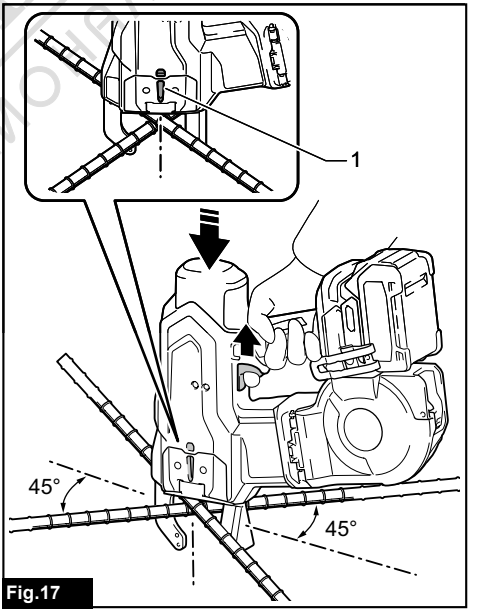


Fig.17

► **1.** Centre mark

2. Pull the switch trigger once.

3. The wire is fed and cut automatically.

4. The rotating parts hold and twist the wire, then return to the original position after the wire has been tied.

5. After tying, be careful not to hook the arm on the rebars, and then pull the tool up.

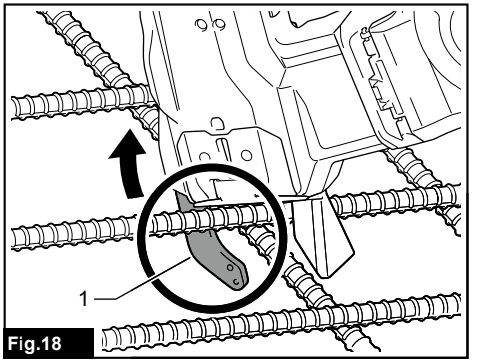


Fig.18

► **1.** Arm

Cautions on working

- If you move the side plate from the tying position during the wire tying process, the wire will get stuck on the rotating parts, which may lead to incorrect tying.
- Keep pressing the tool against the rebars until the wire tying process is completed.
- Do not move to the next tying point until the current wire tying process is completed.
- The rotating parts twist the wire during the wire tying process. Hold the grip firmly so that your body is not pulled by the tool.
- Do not touch the wires during the wire tying process.
- If you pull the switch trigger when there is no tie wire left, an error is displayed. Replace with a new tie wire and restart the tool.

Tying tips

***CAUTION:* If the tool gets caught on the wire when tying, do not pull the tool by force.** Otherwise, injury may result.

***CAUTION:* Be careful with the wire ends when tying.** Wire ends are sharp and may cause injury.

- Tilt the tool at a 45° angle against the crossed rebars, and tie the wire in alternate orientations as shown in the figure.

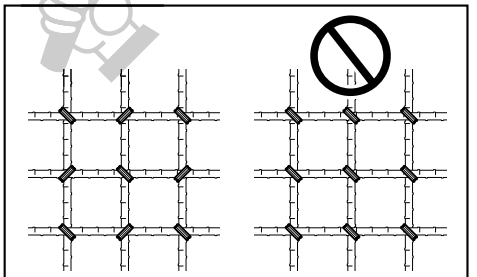


Fig.19

- Tie the wire onto the flat (with no unevenness) sections of crossed rebars.

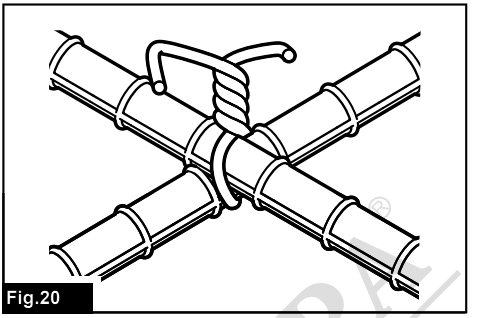


Fig.20

- If tying strength is insufficient, change the tying orientation and perform tying twice so that tying strength increases.

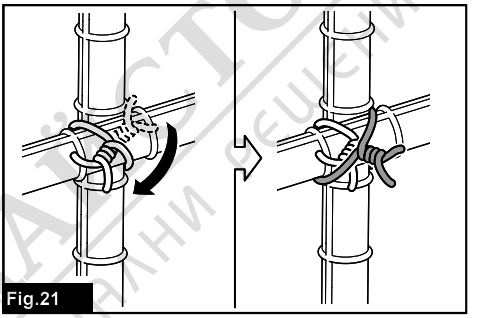


Fig.21

***NOTICE:* When you make the second tie, bend the tail of the first tie before making the second tie.** Otherwise, the wire may be repelled a second time. It may cling to the tool tip, and the rotating parts may be damaged.

MAINTENANCE

***CAUTION:* Always be sure that the tool is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.**

***NOTICE:* Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.**

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.

Cleaning the window

When the window is dirty and you cannot check the wire position, open the window and wipe the inside of the window with a soft cloth according to the following procedure. After cleaning, close the window again to prevent foreign objects from entering.

1. Loosen the bolts with the hex wrench and open the window.

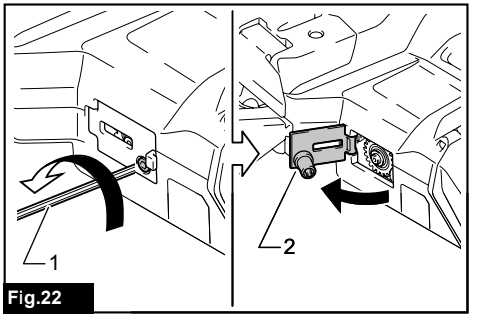


Fig.22

► **1.** Hex wrench **2.** Window

2. Wipe off any dirt inside the window with a soft cloth.

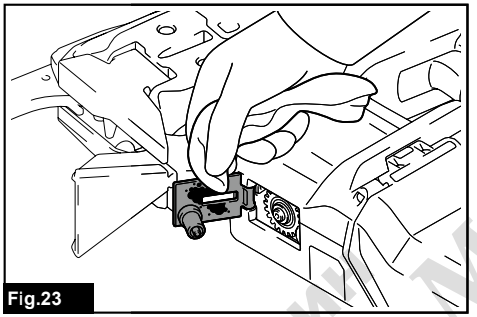


Fig.23

Cleaning the side plate

If the side plates become difficult to close, wipe off any iron dust, etc. adhering to the inside of the side plates with a cloth.

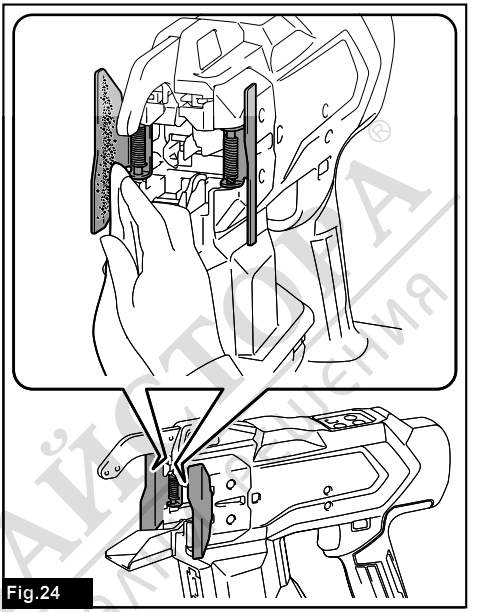


Fig.24

⚠***CAUTION:*** **If the wire has clung to the binding part of the tool tip, turn the power of the tool off. Lock the trigger, remove the battery cartridge, and remove the wire using tools such as nippers or pliers.**

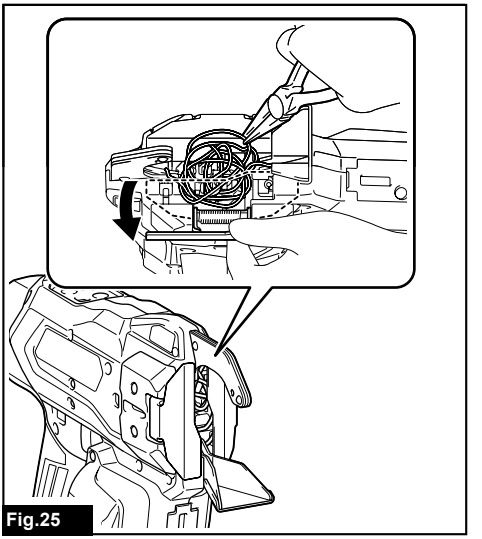


Fig.25

Lubricating the binding part

After tying, if the tool is difficult to pull out from the tied point or the wire clings to the binding part of the tool tip, follow the lubrication procedure below.
If these symptoms persist after lubrication, ask your local Makita Service Center for repairs.

1. Open the side plates.

2. Using the oil bottle supplied with the tool, lubricate each lubrication point with 2 to 3 drops of oil as shown in the figures.

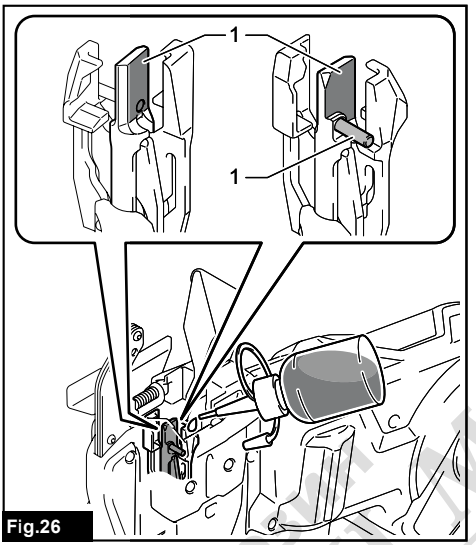


Fig.26

► **1.** Lubrication point

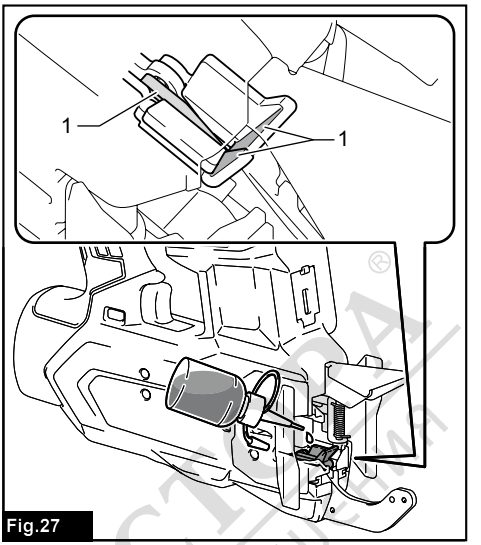


Fig.27

► **1.** Lubrication point

Error display and error tone

⚠***CAUTION:*** **During inspection, be sure to lock the trigger, turn the power off, and remove the battery cartridge.** Failure to do so may cause an accident.

⚠***CAUTION:*** **When you turn the power on, never bring your limbs or face close to the binding or rotating parts of the tool tip.** Otherwise, you may be injured.

⚠***CAUTION:*** **When the power is turned on, never touch the binding or rotating parts of the tool tip.** Otherwise, you may be injured.

⚠***CAUTION:*** **If an error tone sounds, or if the tool malfunctions, immediately stop using the tool.**

Error tone and display

If an error occurs, an error tone will sound, and an error number will blink on the display panel. Refer to the following table and take appropriate actions. If the error persists, ask Makita Authorized Service Centers for repairs.

Display	Symptom	Possible cause	Solution
1	The tool stops operating. The tool does not start.	The wire has been used up.	Load new tie wire.
		Tie wire is not loaded.	Load tie wire.
		Wire feeding has failed.	Unload the tie wire, and load it again. Clean the path of wire.
		The operation during tying is incorrect.	See the section "*Tying work*" and perform the correct operation.
2	The tool does not start.	The side plates are open.	See the section "*Cleaning the side plate*" and close the side plates.
		Accidental re-start preventive function is activated.	See the section "*Accidental re-start preventive function*" and restore the tool.
4	The tool does not start. The tool stops operating.	The battery has been discharged. The temperature of the battery cartridge is abnormally high.	Recharge the battery. Cool the battery cartridge down. Replace the battery cartridge with a recharged one.
5	The tool stops operating.	The motor is overloaded.	Determine the cause of the obstruction of the motor rotation and solve the problem.
		Motor failure	
6	The tool stops operating. The tool does not start.	The temperature of the tool is abnormally high.	Cool the tool down.
7	The tool does not start. The tool stops operating.	Tool failure	Ask Makita Authorized Service Centers for repairs.

OPTIONAL ACCESSORIES

⚠***CAUTION:*** **These accessories or attachments are recommended for use with your Makita tool specified in this manual.** The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Makita Service Center.

- Tie wire
- Extension handle
- Makita genuine battery and charger

NOTE: Some items in the list may be included in the tool package as standard accessories. They may differ from country to country.

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