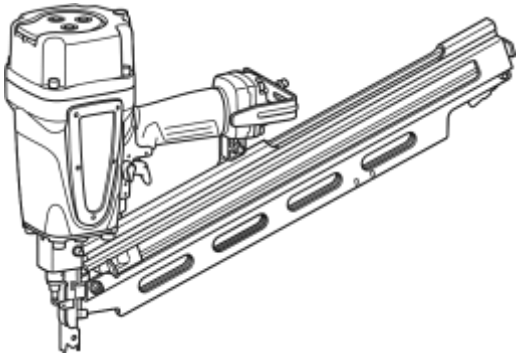
Pneumatic Framing Nailer



INSTRUCTION

AN924

IMPORTANT:

ENGLISH (Original instructions)

SPECIFICATIONS

Model:	AN924
Air pressure	0.49 - 0.83 MPa (70 - 120 PSIG)
Nail length (L) x Shank diameter (D) x Angle	L: 50 mm - 90 mm x D: 2.9 mm - 3.76 mm x 21 degrees (L: 2″ - 3-1/2″ x D: 0.113″ - 0.148″ x 21 degrees)
Nail capacity	64 - 73 pcs.
Minimum hose diameter	8.5 mm (5/16″)
Dimensions (L x W x H)	560 mm x 117 mm x 348 mm (22″ x 4-5/8″ x 13-3/4″)
Net weight	3.8 kg (8.3 lbs)

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.
- Specifications may differ from country to country.

SAFETY WARNINGS

Important safety instructions

For personal safety and proper operation and maintenance of the tool, read this instruction manual carefully before using the tool.

WARNING: WHEN USING THIS TOOL, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF PERSONAL INJURY, INCLUDING THE FOLLOWING:

READ ALL INSTRUCTIONS.

Personal Protective Equipment

1. **Always wear safety glasses to avoid eye injury from dust or fasteners. The safety glasses should conform with the requirements of ANSI Z87.1.**
   WARNING:It is an employer's responsibility to enforce the use of safety eye protection equipment by the tool operators and by other persons in the immediate working area.
2. **Wear hearing protection to protect your ears against exhaust noise and head protection. Also wear light but not loose clothing. Sleeves should be buttoned or rolled up. No necktie should be worn.**

Flammable Atmospheres

1. **Do not operate tool in explosive atmospheres, such as in the presence of flammable liquids, gases or combustible dust.**

Tool modification

1. **The tool should not be modified unless authorized in the tool manual or approved in writing by the tool manufacturer.**

Tool maintenance

1. **Refer to the tool maintenance instructions for detailed information on the proper maintenance of a tool.**

Recommended fasteners and accessories

1. **Use only fasteners made or recommended by the tool manufacturer, or fasteners that perform equivalently to those recommended by the manufacturer.**
2. **Use only accessories made or recommended by the tool manufacturer, or accessories that perform equivalently to those recommended by the manufacturer.**

Inspect tool before operating to:

1. **Use only power source specified in the instruction manual.**
   Operate the tool within the specified air pressure on the tool label for safety and longer tool life. Do not exceed the recommended max. operating pressure. The tool should not be connected to a source whose pressure potentially exceeds 1.38 MPa (200 PSIG).
2. **Never use the tool with other than compressed air. If bottled gas (carbon dioxide, oxygen, nitrogen, hydrogen, air, etc.) or combustible gas (hydrogen, propane, acetylene, etc.) is used as a power source for this tool, the tool will explode and cause serious injury.**
3. **Always check the tool for its overall condition and loose screws before operation. Tighten as required.**
4. **Make sure all safety systems are in working order before operation. The tool must not**

operate if only the trigger is pulled or if only the contact element is pressed against the wood. It must work only when both actions are performed. Test for possible faulty operation with fasteners unloaded and the contact element in fully pulled position.

5. **Always check contact element as instructed in this manual. Fasteners may be driven accidentally if the safety mechanism is not working correctly.**

Operating controls

1. **Do not use a tool with missing or damaged safety warning label(s.)**
2. **A tool that is not in proper working order must not be used. Tags and physical segregation shall be used for control.**
3. **Do not remove, tamper with, or otherwise cause tool operating controls to become inoperable.**
4. **Do not operate tool if any portion of the tool operating controls is inoperable, disconnected, altered, or not working properly.**

Tool handling

1. **Only persons who have read and understand the tool operating/safety instructions should operate the tool.**
2. **Always assume that tool contains fasteners.**
3. **Do not point tool toward yourself or anyone whether it contains fasteners or not.**
4. **Keep bystanders and children away while operating tool.**
5. **Do not actuate tool unless tool is placed firmly against the workpiece.**
6. **Respect tool as a working implement.**
7. **Do not engage in horseplay.**
8. **Stay alert, focus on your work and use common sense when working with tools.**
9. **Do not use tool while tired, after having consumed drugs or alcohol, or while under the influence of medication.**
10. **Do not overreach. Keep proper footing and balance at all times.**
11. **Do not hold or carry tool with a finger on the trigger.**
12. **Drive fasteners into proper work surface only.**
13. **Do not drive fasteners into other fasteners.**
14. **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:**
    a) **always maintaining control of tool.**
    b) **allowing recoil to move tool away from work surface.**
    c) **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.**
    d) **keeping face and body parts away from tool.**
15. **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.**
16. **Keep hands and body away from fastener discharge area of tool.**
17. **Do not load tool with fasteners when any one of the operating controls is activated.**
18. **Do not operate tool with any power source other than that specified in tool operating/ safety instructions.**
19. **Do not operate tool with any operating pressure other than that specified in tool operating/ safety instructions.**
20. **Always select an actuation system that is appropriate to the fastener application and the training of the operator.**
21. **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.)**
22. **Do not lift, pull or lower tool by the hose.**

Disconnecting tool

Disconnect tool from the power source when:

1. **Not in use;**
2. **Performing any maintenance or repairs;**
3. **Clearing a jam;**
4. **Elevating, lowering or otherwise moving the tool to a new location;**
5. **Tool is outside of the operator's supervision or control; or**
6. **Removing fasteners from the magazine.**

Additional safety instructions

1. **The area should be sufficiently illuminated to assure safe operations. The area should be clear and litter-free.**
2. **There may be local regulations concerning noise which must be complied with by keeping noise levels within prescribed limits. In certain cases, shutters should be used to contain noise.**
3. **Check walls, ceilings, floors, roofing and the like carefully to avoid possible electrical shock, gas leakage, explosions, etc. caused by striking live wires, conduits or gas pipes.**
4. **On rooftops and other high locations, drive fasteners as you move forward. It is easy to lose your footing if you drive fasteners while inching backward. When driving against perpendicular surface, drive fasteners from the top to the bottom. You can perform the operations with less fatigue by doing so.**

5. **Do not leave the loaded tool or the air compressor under pressure for a long time out in the sun. Be sure that dust, sand, chips and foreign matter will not enter the tool in the place where you leave it setting.**
6. **Perform cleaning and maintenance right after finishing the job. Keep the tool in tip-top condition. Lubricate moving parts to prevent rusting and minimize friction-related wear. Wipe off all dust from the parts.**
7. **Do not connect or disconnect the air hose with a finger on the trigger.** An unexpected driving will cause serious injury when the air hose is connected.
8. **When you drop or strike the tool, check the tool damage or crack and make sure that safety systems are in working order before operation.** As there is high pressure inside the tool, failure to do so will cause serious injury.
9. **Ask Makita's Authorized service centers for periodical inspection of the tool.**
10. **To maintain product SAFETY and RELIABILITY, maintenance and repairs should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.**

SAVE THESE INSTRUCTIONS.

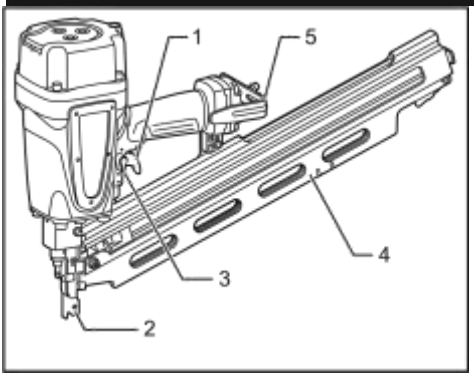
WARNING: **MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.**

Symbols

The followings show the symbols used for tool.

	Read and understand tool labels and manual. Failure to follow warnings could result in death or serious injury.
	Operators and others in work area must wear safety glasses with side shields.
	Keep fingers away from trigger when not driving fasteners to avoid accidental discharge.

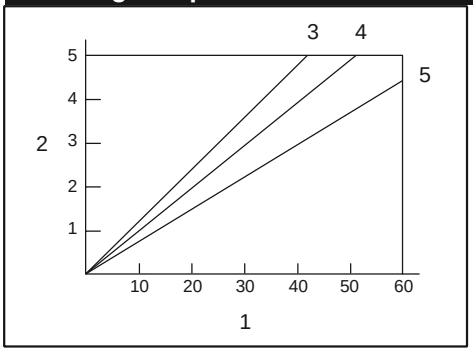
PARTS DESCRIPTION



► **1.** Trigger **2.** Contact element **3.** Actuation mode selector **4.** Magazine **5.** Hook

INSTALLATION

Selecting compressor



► **1.** Nailing frequency (times/min) **2.** Compressor air output per minute (CFM (ft^3 /min.)) **3.** 0.83 MPa (120 PSIG) **4.** 0.66 MPa (95 PSIG) **5.** 0.49 MPa (70 PSIG)

The air compressor must comply with the requirements of ANSI B19.3.

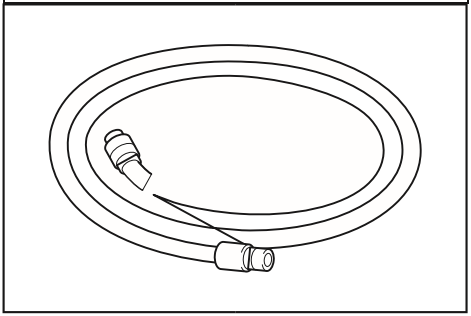
Select a compressor that has ample pressure and air output to assure cost-efficient operation. The graph shows the relation between nailing frequency, applicable pressure and compressor air output. Thus, for example, if nailing takes place at a rate of approximately 40 times per minute at a compression of 0.66 MPa (95 PSIG), a compressor with an air output over 4 CFM (ft^3/minute) is required.

Pressure regulators must be used to limit air pressure to the rated pressure of the tool where air supply pressure exceeds the tool's rated pressure. Failure to do so may result in serious injury to tool operator or persons in the vicinity.

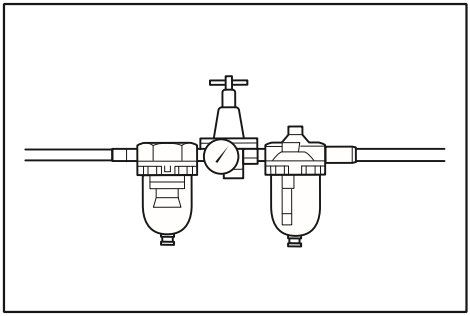
Hook

Selecting air hose

⚠*CAUTION:* Low air output of the compressor, or a long or smaller diameter air hose in relation to the nailing frequency may cause a decrease in the driving capability of the tool.



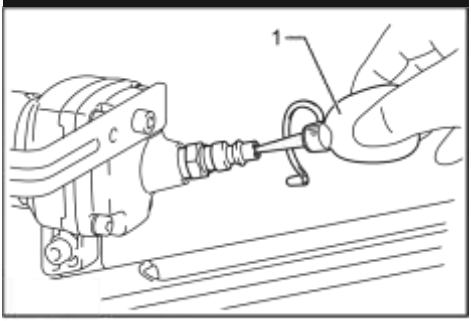
Use an air hose as large and as short as possible to assure continuous, efficient nailing operation.
With an air pressure of 0.49 MPa (70 PSIG), an air hose with an internal diameter of over 8.5 mm (5/16″) and a length of less than 20 m (66 ft.) is recommended when the interval between each nailing is 0.5 seconds. Air supply hoses shall have a minimum working pressure rating of 1.03 MPa (150 PSIG) or 150 percent of the maximum pressure produced in the system whichever is higher.



To insure maximum performance, install an air set (oiler, regulator, air filter) as close as possible to the tool. Adjust the oiler so that one drop of oil will be provided for every 30 nails.

When an air set is not used, oil the tool with pneumatic tool oil by placing 2 (two) or 3 (three) drops into the air fitting. This should be done before and after use. For proper lubrication, the tool must be fired a couple of times after pneumatic tool oil is introduced.

Loading nailer



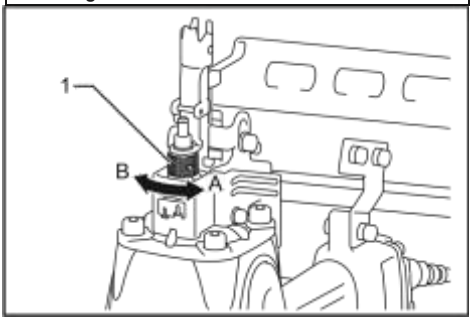
► **1.** Pneumatic tool oil

FUNCTIONAL DESCRIPTION

⚠*CAUTION:* Before adjusting or checking function on the tool, always release the trigger and disconnect the air hose from the tool.

Adjusting depth of nailing

⚠*CAUTION:* Always release the trigger and disconnect the hose before adjusting the depth of nailing.



► **1.** Adjuster

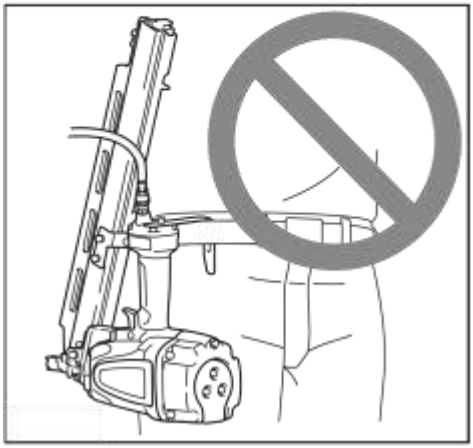
To adjust the depth of nailing, turn the adjuster. The depth of nailing is the deepest when the adjuster is turned fully in the A direction shown in the figure. It will become shallower as the adjuster is turned in the B direction.
If nails cannot be driven deep enough even when the adjuster is turned fully in the A direction, increase the air pressure.
If nails are driven too deep even when the adjuster is turned fully in the B direction, decrease the air pressure.

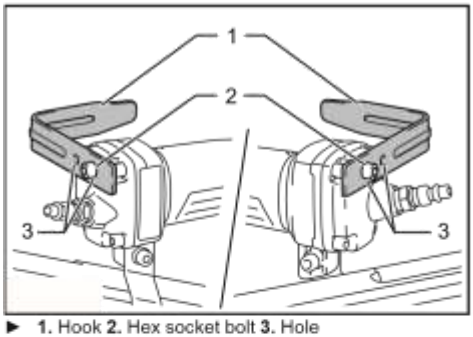
Generally speaking, the tool service life will be longer when the tool is used with lower air pressure and the adjuster set to deeper depth of nail driving.

⚠CAUTION: Always release the trigger and disconnect the hose before changing the hook position.

⚠CAUTION: Never hook the tool at high location or on potentially unstable surface.

⚠CAUTION: Do not hang the hook from the waist belt. If the nailer accidentally drops, it may result in misfiring and personal injuries.





► **1.** Hook **2.** Hex socket bolt **3.** Hole

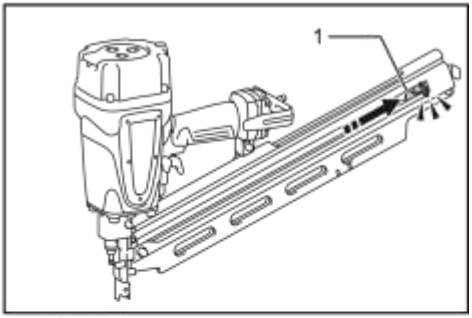
The hook is convenient for hanging the tool temporarily. To change the hook position, remove the hex socket bolt and switch the hook direction. The hook has two holes. Choose the hole depending on your preferable hook width.

ASSEMBLY

⚠CAUTION: Before carrying out any work on the tool, always release the trigger and disconnect the air hose from the tool.

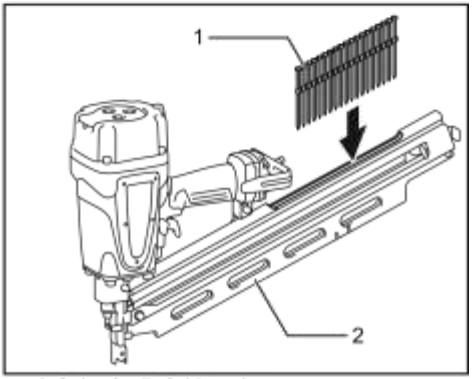
⚠CAUTION: Load the same type, size and uniform length of nails when loading nails in the magazine.

1. Slide the pusher lever until it is locked at the mag-



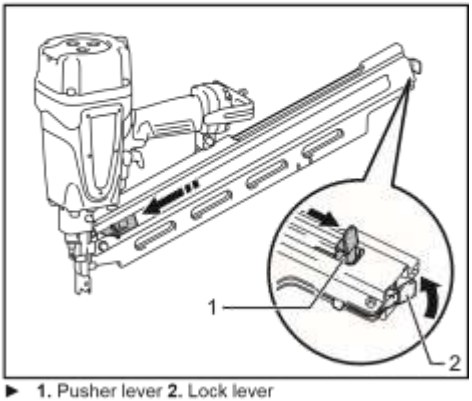
► **1.** Pusher lever

2. Insert a strip of nails into the slit in the rear of the magazine and push the strip toward the firing opening.



► **1.** Strip of nails **2.** Magazine

3. Press the lock lever while sliding the pusher lever toward the magazine end.

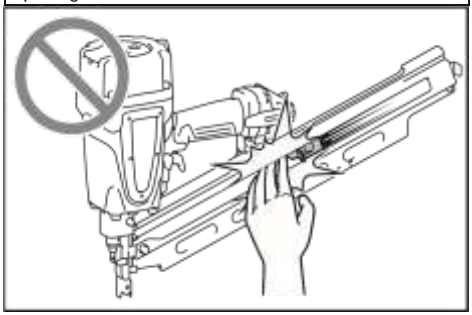


► **1.** Pusher lever **2.** Lock lever

azine end.

4. Return the pusher lever.

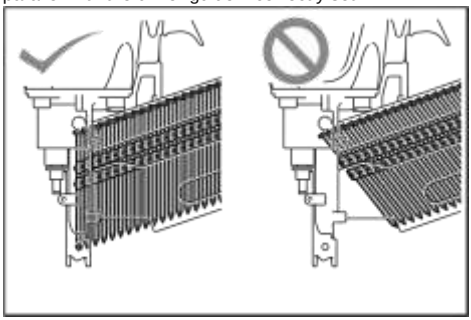
⚠*CAUTION:* Do not put your finger on the rail of the pusher lever. Doing so may cause personal injury by the pusher lever swiftly returns to the firing opening.



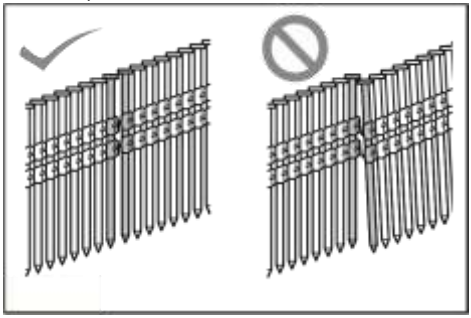
Correct loading of the nails

⚠*CAUTION:* Be sure to load nails in the correct direction.

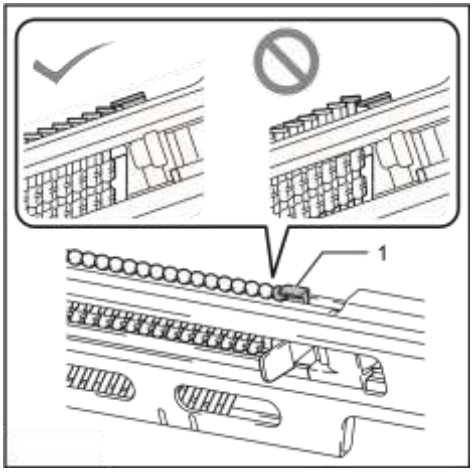
Be sure to load the nail at the correct angle. Nails will be parallel with the driver guide if correctly set.



When loading two or more strips of the nails, set the nail head of the latter strip properly overlaps that of the former strip.



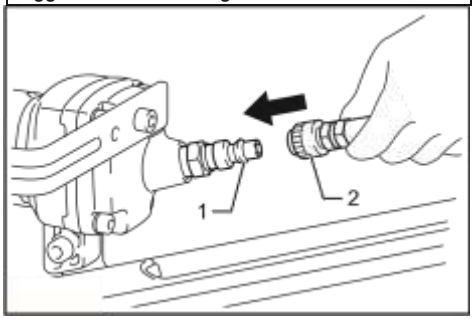
Always set the lock of the pusher lever to hold the nail head as illustrated.



► **1.** Lock of the pusher lever

Connecting air hose

⚠*CAUTION:* Do not rest your finger on the trigger when connecting the air hose.



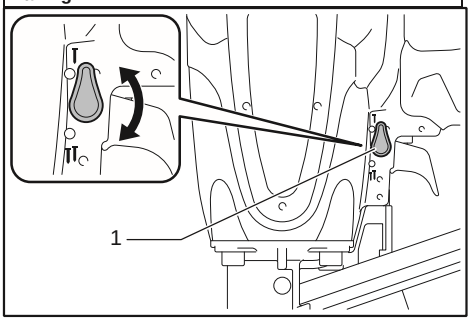
► **1.** Air fitting **2.** Air socket

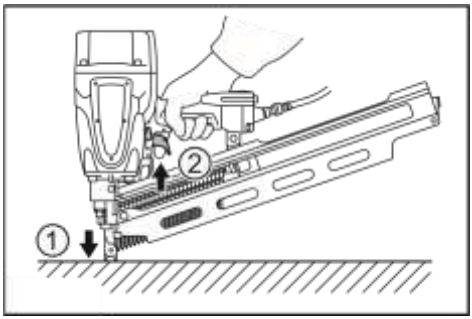
Slip the air socket of the air hose onto the air fitting on the tool. Be sure that the air socket locks firmly into position when installed onto the air fitting. A hose coupling must be installed on or near the tool in such a way that the pressure reservoir will discharge at the time the air supply coupling is disconnected.

OPERATION

⚠*CAUTION:* Make sure all safety systems are in working order before operation.

⚠CAUTION: Always make sure that the actuation mode selector is properly set to the position for the desired nailing mode before nailing.





Selecting the operation mode

► **1.** Actuation mode selector

Single sequential actuation mode:
You can drive one nail by one sequential operation. Select this mode when driving a nail carefully and accurately.
To choose this mode, set the actuation mode selector to the position.

Contact actuation mode:
You can drive nails repetitively by placing the contact element with the trigger held.
To choose this mode, set the actuation mode selector to the position.

Single sequential actuation

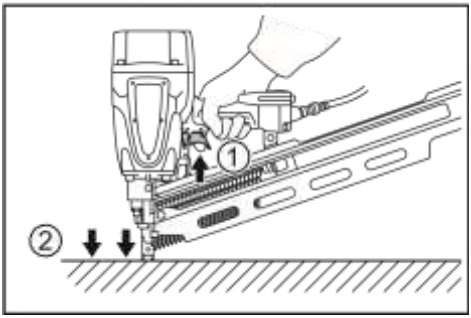
⚠CAUTION: Do not place the contact element against the workpiece with excessive force. Also, pull the trigger fully and hold it on for 1-2 seconds after nailing.

Even in the "Single sequential actuation" mode, halfpulled trigger causes an unexpected nailing, when the contact element re-contacts the workpiece.

Place the contact element against the workpiece and pull the trigger fully.
After nailing, release the contact element, and then release the trigger.

Contact actuation

Pull the trigger first and then place the contact element against the workpiece.



Anti dry fire mechanism

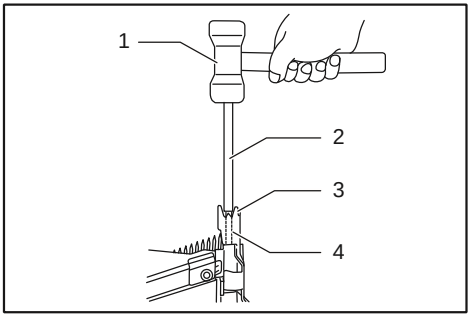
This tool is equipped with an anti dry fire mechanism. When there are a few nails remaining in the magazine, the contact arm will be locked in the undepressed position to prevent the tool from being activated. When it is activated, load more nails to resume operation.

Removing jammed nails

⚠CAUTION: Always release the trigger and disconnect the hose before removing jammed nails.

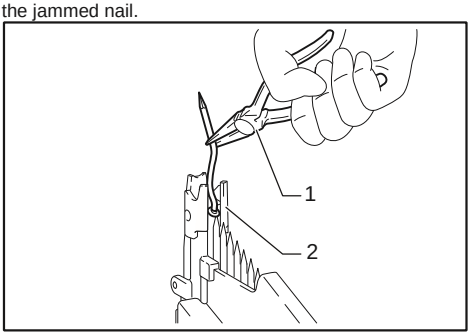
⚠CAUTION: Do not use deformed nails or nail strip. Failure to do so causes poor nail feeding.

When the nailer becomes jammed, do as follows: Insert a small rod or the like into the ejection port and tap it with a hammer to retract the driver.



► **1.** Hammer **2.** Small rod **3.** Ejection port **4.** Driver

Use pliers to bend the jammed nail so that the nail head comes out of the slot in the driver guide. Then remove the jammed nail.



► **1.** Pliers **2.** Slot

MAINTENANCE

⚠CAUTION: **Before attempting to perform inspection or maintenance, always release the trigger and disconnect the air hose from the tool.**

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

Nails

Handle nail strips and their box carefully. If the nail strips have been handled roughly, they may be out of shape, causing poor nail feed.

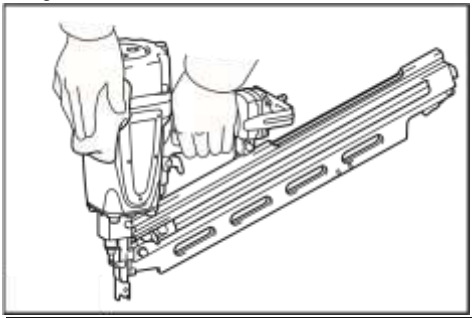
Avoid storing nails in a very humid or hot place or place exposed to direct sunlight.

Maintenance of nailer

Always check the tool for its overall condition and loose screws before operation. Tighten as required.

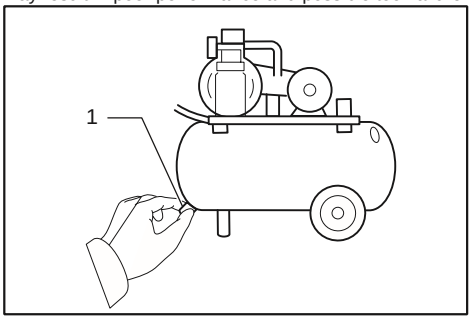
With tool disconnected, make daily inspection to assure free movement of the contact element and trigger. Do not use tool if the contact element or trigger sticks or binds.

When the tool is not to be used for an extended period of time, lubricate the tool using pneumatic tool oil and store the tool in a safe place. Avoid exposure to direct sunlight and/or humid or hot environment.

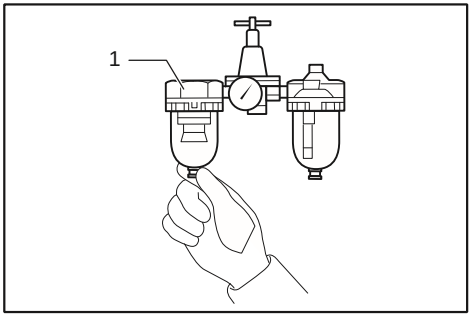


Maintenance of compressor, air set and air hose

After operation, always drain the compressor tank and the air filter. If moisture is allowed to enter the tool, it may result in poor performance and possible tool failure.

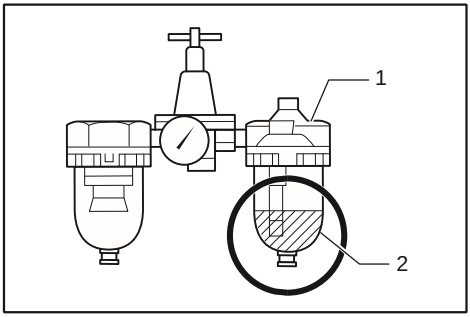


► **1.** Drain cock



► **1.** Air filter

Check regularly to see if there is sufficient pneumatic tool oil in the oiler of the air set. Failure to maintain sufficient lubrication will cause O-rings to wear quickly.



► **1.** Oiler **2.** Pneumatic tool oil

Keep the air hose away from heat (over 60°C, over 140°F), away from chemicals (thinner, strong acids or alkalis). Also, route the hose away from obstacles which it may become dangerously caught on during operation. Hoses must also be directed away from sharp edges and areas which may lead to damage or abrasion to the hose.

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.

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.

- Nails
- Air hose
- Safety goggles

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

MAKITA LIMITED WARRANTY

Please refer to the annexed warranty sheet for the most current warranty terms applicable to this product. If annexed warranty sheet is not available, refer to the warranty details set forth at below website for your respective country.

United States of America: www.makitatools.com
Canada: www.makita.ca
Other countries: www.makita.com

WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are: • lead from lead-based paints,
• crystalline silica from bricks and cement and other masonry products, and
• arsenic and chromium from chemically-treated lumber.

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

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