

ENGLISH

NF235A/23-35

PNEUMATIC PIN NAILER

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OPERATING and MAINTENANCE MANUAL



[6-6 NIHONBASHI-HAKOZAKI-CHO, CHUO-KU, TOKYO, JAPAN]
Tel: (03) 3669-8131 Telefax: (03) 3669-7104

<http://www.maxusacorp.com> (USA Site)
<http://www.max-ltd.co.jp/int/> (GLOBAL Site)



WARNING:

BEFORE USING THIS TOOL, STUDY THIS MANUAL TO ENSURE SAFETY WARNING AND INSTRUCTIONS.

KEEP THESE INSTRUCTIONS WITH THE TOOL FOR FUTURE REFERENCE.

DEFINITIONS OF SIGNAL WORDS

- WARNING:** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- CAUTION:** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
- NOTE:** Emphasizes essential information.

1. SAFETY INSTRUCTIONS



⚠ WARNING:

TO AVOID SEVERE PERSONAL INJURY OR PROPERTY DAMAGE BEFORE USING THE TOOL, READ CAREFULLY AND UNDERSTAND THE FOLLOWING "SAFETY INSTRUCTIONS":

PRECAUTIONS ON USING THE TOOL

1. WEAR SAFETY GLASSES OR GOGGLES

Danger to the eyes always exists due to the possibility of dust being blown up by the exhausted air or of a fastener flying up due to the improper handling of the tool. For these reasons, safety glasses or goggles shall always be worn when operating the tool.

The employer and/or user must ensure that proper eye protection is worn. Eye protection equipment must conform to the requirements of the American National Standards Institute, ANSI Z87.1 (Council Directive 89/686/EEC of 21 DEC. 1989) and provide both frontal and side protection.

NOTE: Non-side shielded spectacles and face shields alone do not provide adequate protection.



2. EAR PROTECTION MAY BE REQUIRED IN SOME ENVIRONMENTS

As the working condition may include exposure to high noise levels which can lead to hearing damage, the employer and user should ensure that any necessary hearing protection is provided and used by the operator and others in the work area.



3. DO NOT USE ANY POWER SOURCE EXCEPT AN AIR COMPRESSOR

The tool is designed to operate on compressed air. Do not operate the tool on any other highpressure gas, combustible gases (e.g., oxygen, acetylene, etc.) since there is the danger of an explosion. For this reason, absolutely do not use anything other than an air compressor to operate the tool.



4. OPERATE WITHIN THE PROPER AIR PRESSURE RANGE

The tool is designed to operate within an air pressure range of 60 to 100 p.s.i. (4 to 7 bar.) The pressure should be adjusted to the type of the work being fastened. The tool shall never be operated when the operating pressure exceeds 120 p.s.i. (8 bar.) Never connect the tool to air pressure which potentially exceeds 200 p.s.i. (14 bar) as the tool can burst.



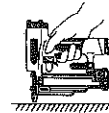
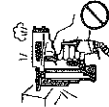
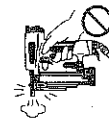
5. DO NOT OPERATE THE TOOL NEAR A FLAMMABLE SUBSTANCE

Never operate the tool near a flammable substance (e.g., thinner, gasoline, etc.). Volatile fumes from these substances could be drawn into the compressor and compressed together with the air and this could result in an explosion.



6. DO NOT USE A WRONG FITTINGS

The connector on the tool must not hold pressure when air supply is disconnected. If a wrong fitting is used, the tool can remain charged with air after disconnecting and thus will be able to drive a fastener even after the air line is disconnected, possibly causing injury.



7. PRIOR TO USE, BE SURE TO CHECK WHETHER THE SAFETY DEVICE FUNCTIONS PROPERLY. IF NOT PROPERLY FUNCTIONING, DO NOT USE IT.

Prior to using the tool, be sure to check whether the safety device functions properly. With no nails loaded, connect the air hose to check.

* In the following case, never use the tool because the safety device is faulty.

1. Just pulling the trigger-A emits working sound.

If you notice any abnormality, contact our distributor for inspection/repair.

8. NEVER DRIVE THE NAILS, FACING EACH OTHER.

If you drive the nails, facing each other, a failed nail may hit the other worker in front of you, injuring him. Never drive the nails, facing each other.

9. APPLY THE EJECTION PORT PROPERLY TO THE OBJECT.

Unless the top of the driver guide is properly applied to the work-piece, a newly driven nail may hit an already driven one or a knot of timber and spring up or divert, endangering you. Also, the tool may bound back strongly, injuring you. Remember to apply the top of the driver guide properly to the work-piece.

10. DISCONNECT THE AIR SUPPLY AND EMPTY THE MAGAZINE WHEN THE TOOL IS NOT IN USE

Always disconnect the air supply from the tool and empty the magazine when operation has been completed or suspended, when moving to a different work area, adjusting, disassembling, or repairing the tool, and when clearing a jammed fastener.

11. INSPECT SCREW TIGHTNESS

Loose or improperly installed screws or bolts cause accidents and tool damage when the tool is put into operation. Inspect to confirm that all screws and bolts are tight and properly installed prior to operating the tool.

12. DO NOT TOUCH THE TRIGGER UNLESS YOU INTEND TO DRIVE A FASTENER

Whenever the air supply is connected to the tool, never touch the trigger unless you intend to drive a fastener into the work. It is dangerous to walk around carrying the tool with the trigger pulled, and this and similar actions should be avoided.

13. NEVER POINT THE DISCHARGE OUTLET TOWARD PEOPLE

If the discharge outlet is pointed toward people, serious accidents may be caused when misfiring. Be sure the discharge outlet is not pointed toward people when connecting and disconnecting the hose, loading the fasteners or similar operations.

14. USE SPECIFIED FASTENERS (SEE PAGE 5)

The use of fasteners other than specified fasteners will cause the tool malfunction. Be sure to use only specified fasteners when operating the tool.

15. PLACE THE DISCHARGE OUTLET TO THE WORK PROPERLY

Failure to place the discharge outlet of the driver guide in a proper manner can result in a fastener flying up and is extremely dangerous.

16. KEEP HANDS AND BODY AWAY FROM THE DISCHARGE OUTLET

When loading and using the tool, never place a hand or any part of body in fastener discharge area of the tool. It is very dangerous to hit the hands or body by mistake.



17. DO NOT DRIVE FASTENERS CLOSE TO THE EDGE AND CORNER OF THE WORK AND THIN MATERIAL

The work-piece is likely to split and the fastener could fly free and hit someone.



18. DO NOT DRIVE FASTENERS ON THE TOP OF OTHER FASTENERS

Driving fasteners of the top of other fasteners may cause deflection fasteners which could cause injury.

19. REMOVING THE FASTENERS AFTER COMPLETING OPERATION

If fasteners are left in the magazine after the completion of operation, there is the danger of a serious accident occurring prior to the resumption of operation, should the tool be handled carelessly, or when connecting the air fitting. For this reason, always remove all fasteners remaining in the magazine after completion of the operation.

20. CHECK OPERATION OF THE CONTACT TRIP MECHANISM FREQUENTLY IN CASE OF USING A CONTACT TRIP TYPE TOOL

Do not use the tool if the trip is not working correctly as accidental driving of a fastener may result. Do not interfere with the proper operation of the double trigger safety device.



21. WHEN USING THE TOOL OUTSIDE OR ELEVATED PLACE

When fastening roofs or similar slanted surface, start fastening at the lower part and gradually work your way up. Fastening backward is dangerous as you may loose your foot place.

Secure the hose at a point close to the area you are going to drive fasteners. Accidents may be caused due to the hose being pulled inadvertently or getting caught.

22. NEVER USE THE TOOL WHICH IS DEFECTIVE OR PERFORMS ABNORMALLY

20. NEVER ACTUATE THE TOOL INTO FREE SPACE

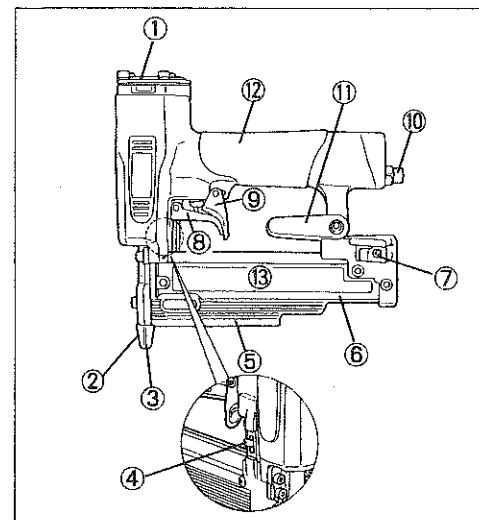
This will avoid any hazard caused by free flying fasteners and excessive strain of the tool.

OBSERVE THE FOLLOWING GENERAL CAUTION IN ADDITION TO THE OTHER WARNINGS CONTAINED IN THIS MANUAL

- Do not use the tool as a hammer.
- Always carry the tool by handle, never carry the tool by the air hose.
- The tool must be used only for the purpose it was designed.
- Never clamp the trigger in locked operation position.
- Keep the tool in a dry place out of reach of children when not in use.
- Do not use the tool without Safety Warning label.
- Do not modify the tool from original design or function without approval by MAX CO., LTD.

2. SPECIFICATIONS

1. NAME OF PARTS

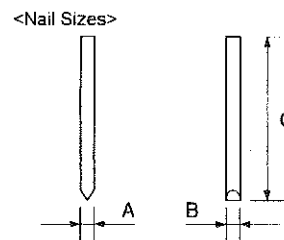


- ① Cylinder Cap
- ② Contact Tip
- ③ Driver Guide
- ④ Anti-dry Firing Arm
- ⑤ Magazine
- ⑥ Slider
- ⑦ Click Lever
- ⑧ Trigger A
- ⑨ Trigger B
- ⑩ Silencer
- ⑪ Hook
- ⑫ Frame
- ⑬ Warning Label

2. TOOL SPECIFICATIONS

HEIGHT	7-9/16" (192 mm)
WIDTH	2-7/16" (62 mm)
LENGTH	9-7/16" (239 mm)
WEIGHT	2.38 lbs. (1.06 kg)
RECOMMENDED OPERATING PRESSURE	60 to 100 p.s.i. (4 to 7 bar)
AIR CONSUMPTION	0.27 l at 90 p.s.i. (6 bar) operating pressure
ACCESSORIES	Hex. bar wrench 2-2.5-3-4, Contact tip x2

3. PIN NAIL SPECIFICATIONS



A	B	C	Nose Shape
.258 (0.65mm) (23 gauge, headless pin)	.258 (0.65mm) (23 gauge, headless pin)	1/2" (12mm)	Chisel Point
		5/8" (15mm)	
		11/16" (17mm)	
		3/4" (20mm)	
		1" (25mm)	
		1-3/16" (30mm)	
		1-3/8" (35mm)	

TOOL AIR FITTINGS:

This tool uses a 1/4" N.P.T. male plug. The inside diameter should be .280" (7 mm) or larger. The fitting must be capable of discharging tool air pressure when disconnected from the air supply.

RECOMMENDED OPERATING PRESSURE:

60 to 100 p.s.i. (4 to 7 bar). Select the operating air pressure within this range for best fastener performance. DO NOT EXCEED 120 p.s.i. (8 bar).

4. APPLICATIONS

- * Light wood assembly
- * Finish and trim work
- * Molding and decorative trim
- * Dowel and joint pinning
- * Mirror and picture frame assemble
- * Lightweight paneling
- * External softwood trim
- * Rattan furniture
- * Glazing strips
- * Craft work

WARNING:

3. AIR SUPPLY AND CONNECTIONS

Read section titled "SAFETY INSTRUCTIONS".



DO NOT USE ANY POWER SOURCE EXCEPT AN AIR COMPRESSOR

The tool is designed to operate on compressed air. Do not operate the tool on any other highpressure gas, combustible gases (e.g., oxygen, acetylene, etc.) since there is the danger of an explosion. For this reason, absolutely do not use anything other than an air compressor to operate the tool.



OPERATE WITHIN THE PROPER AIR PRESSURE RANGE

The tool designed to operate within an air pressure range of 60 to 100 p.s.i. (4 to 7 bar.) The pressure should be adjusted to the type of the work being fastened. The tool shall never be operated when the operating pressure exceeds 120 p.s.i. (8 bar.)



DO NOT OPERATE THE TOOL NEAR A FLAMMABLE SUBSTANCE

Never operate the tool near a flammable substance (e.g., thinner, gasoline, etc.). Volatile fumes from these substances could be drawn into the compressor and compressed together with the air and this could result in an explosion.

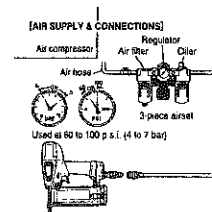
DO NOT USE A WRONG FITTINGS

The connector on the tool must not hold pressure when air supply is disconnected. If a wrong fitting is used, the tool can remain charged with air after disconnecting and thus will be able to drive a fastener even after the air line is disconnected, possibly causing injury.



DISCONNECT THE AIR CHUCK WHEN THE TOOL IS NOT IN USE

Always disconnect the air chuck from the tool when operation has been completed or suspended, when moving to a different work area, adjusting, disassembling, or repairing the tool, and when clearing a jammed fastener.



FITTINGS: Install a male plug on the tool which is free flowing and which will release air pressure from the tool when disconnected from the supply source.

HOSES: Hose has a min. ID of 3/16" (5 mm) and max. length of no more than 17' (5 meters).

The supply hose should contain a fitting that will provide "quick disconnecting" from the male plug on the tool.

SUPPLY SOURCE: Use only clean regulated compressed air as a power source for the tool.

3-PIECE AIRSET (Air filter, Regulator, Oiler):

Refer to TOOL SPECIFICATIONS for setting the correct operating pressure for the tool.

NOTE:

A filter will help to get the best performance and minimum wear from the tool because dirt and water in the air supply are major causes of wear in the tool. Frequent, but not excessive, lubrication is required for the best performance. Oil added thru the air line connection will lubricate the internal parts.

4. INSTRUCTIONS FOR OPERATION

Read section titled "SAFETY INSTRUCTIONS".

1. BEFORE OPERATION

- 1 Wear Safety Glasses or Goggles.
- 2 Do not connect the air supply.
- 3 Inspect screw tightness.
- 4 Check operation of the contact arm & trigger if moving smoothly.
- 5 Connect the air supply.
- 6 Check the air-leakage. (The Tool must not have the air-leakage.)
- 7 Hold the Tool with finger-off the trigger, then push the contact arm against the work-piece. (The tool must not operate.)
- 8 Hold the Tool with contact arm free from work-piece and pull the trigger. (The Tool must not operate.)
- 9 Disconnect the air supply.

⚠ WARNING:



2. OPERATION

WEAR SAFETY GLASSES OR GOGGLES

Danger to the eyes always exists due to the possibility of dust being blown up by the exhausted air or of a fastener flying up due to the improper handling of the tool. For these reasons, safety glasses or goggles shall always be worn when operating the tool.

The employer and/or user must ensure that proper eye protection is worn. Eye protection equipment must conform to the requirements of the American National Standards Institute, ANSI Z87.1 (Council Directive 89/686/EEC of 21 DEC. 1989) and provide both frontal and side protection.

The employer is responsible to enforce the use of eye protection equipment by the tool operator and all other personnel in the work area.

NOTE: Non-side shielded spectacles and face shields alone do not provide adequate protection.

Keep hands and body away from the discharge outlet.

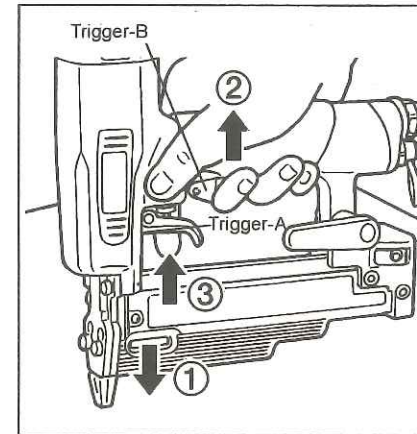
When driving the fasteners because of dangerous of hitting the hands or body by mistake.

⚠ WARNING:



3. ABOUT SAFETY DEVICE

To ensure safe nailing work, the tool is equipped with the following safety device.



DOUBLE TRIGGER SAFETY DEVICE

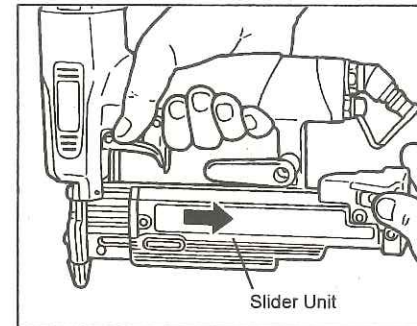
To ensure safer work, the tool has a double trigger safety device.

The trigger-A cannot be pulled unless the trigger-B is held with a middle finger, preventing erroneous shooting of nails.

- 1 Apply the top of the driver guide.
- 2 Hold the trigger-B with the middle finger.
- 3 Pull the trigger-A.

4. HOW TO USE

Prior to use, learn to use the tool without connecting it to the air compressor.



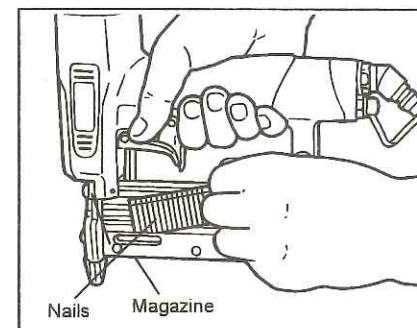
NAIL LOADING

- 1 Disconnect the air hose.

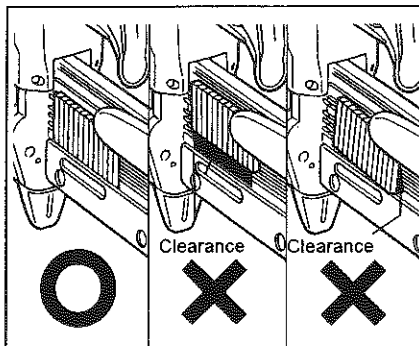
⚠ WARNING:

When loading the nails, be sure to disconnect the air hose.

- 2 Pushing the click lever, pull out the slider unit gently until it comes to a stop.

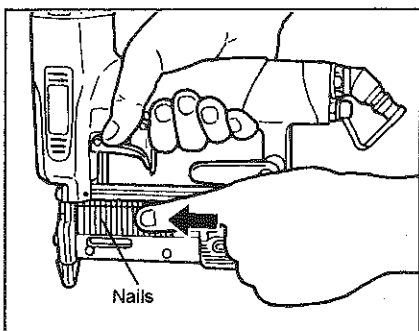


- 3 Load the nails into the magazine. When this is done, put the tip of the nails into a lower far slot in the magazine.

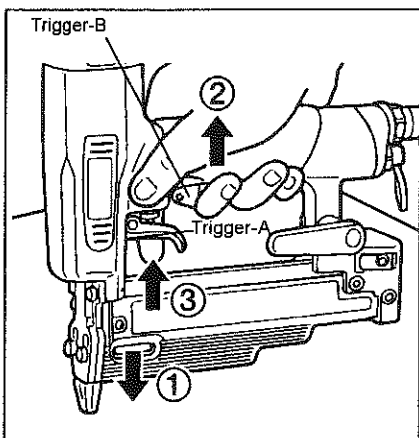


⚠ WARNING:

- If the slider is set with a clearance around the tip of the nails, they may jam or the tool may go out of order.
- Do not load the nails having different lengths.
- If you load several strings of fewer nails at one time, they tend to jam.

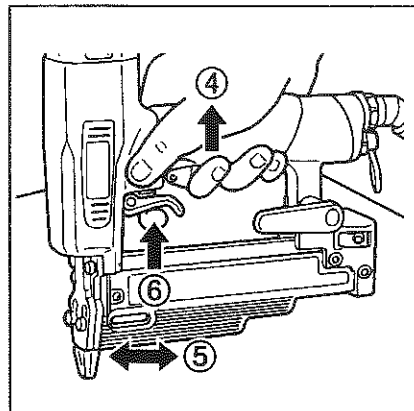


- ④ Feed the nails in the magazine to the driver guide with a finger.
- ⑤ Close the slider unit.

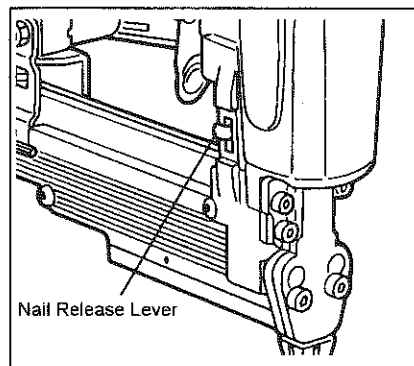


DRIVING FASTENERS

- ① Apply the top of the driver guide to the nail drive position and hold the trigger-B with the middle finger.
 - ② With the trigger-B held, pull the trigger-A.
- ① Depress the top of the driver guide.
 - ② Hold the trigger-B with the middle finger.
 - ③ Pull the trigger-A.



- ③ With the trigger-B held, you may move to the next nail drive position and pull the trigger-A again to drive the nails.
- ④ With the trigger-B held with the middle finger
- ⑤ With the driver guide applied, move to the next drive position.
- ⑥ Pull the trigger-A again.



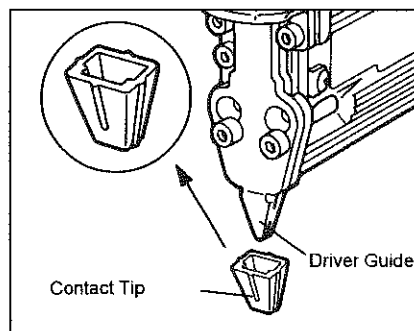
ANTI-DRY FIRING MECHANISM

The tool is equipped with an anti-dry firing mechanism. If the magazine is not loaded with the nails or the number of remaining nails is about 15, the tool cannot be activated, if you pull the trigger. When removing the nails, lock the trigger, disconnect the air hose and push a nail removal lever to release them.

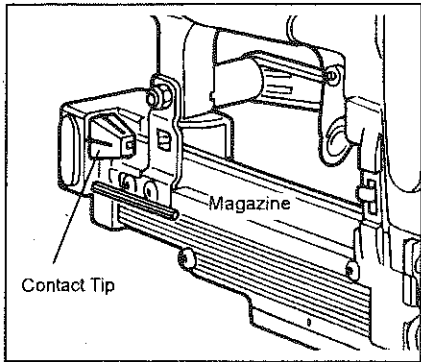
USING THE CONTACT TIP

⚠ WARNING:

When attaching/detaching a contact tip, be sure to disconnect the air hose.



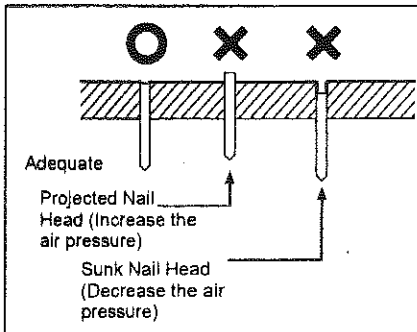
When nailing a soft material whose surface could be damaged, attach the accessory contact tip on the top of the driver guide.



When the contact tip is not used, it can be attached to the rear of the magazine.

5. DRIVING CONDITION CHECK

Too much driving depth deteriorates their holding force extremely. When driving them, check the driving condition and adjust the driving depth in the following manner.



⚠ WARNING:

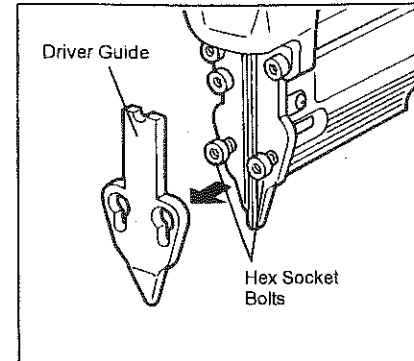
When adjusting the driving depth, be sure to disconnect the air hose.

- ❶ Disconnect the air hose.
- ❷ Load the nails.
- ❸ Set the air compressor pressure to 70 p.s.i. (5 bar).
- ❹ Prior to adjustment, test-drive the nails once to check the desired driving depth.
- ❺ According to the left figure, adjust the air compressor pressure.
- ❻ If the driving depth is adequate, you are finished with adjustment. If not, repeat the steps above.
- ❼ Adjust the air compressor pressure again.

⚠ WARNING:

Never use the tool at the pressure higher than 100 p.s.i. (7 bar).

6. REMOVAL OF NAIL JAM



⚠ WARNING:

When removing a nail jam, be sure to disconnect the air hose.

- ❶ Disconnect the air hose.
- ❷ Remove the nails out of the magazine.
- ❸ Loosen the hex socket bolts of the driver guide to detach the latter.
- ❹ Eliminate jamming nails.

5. MAINTAIN FOR PERFORMANCE

❶ DO NOT FIRE THE NAILER WHEN IT IS EMPTY

❷ USE A 3-PIECE AIRSET

Failure to use a 3-piece airset allows the moisture and dirt inside compressor to pass into the tool directly. This causes rust and wear, and results in a poor operating performance. The hose length between airset and tool should be no longer than 5 m since a longer length results in a reduction in air pressure.

❸ USE RECOMMENDED OIL

The velocite or turbine oil should be used to lubricate the tool. Upon completion of operations, place 2 or 3 drops of oil into the air plug inlet with the jet oiler. (Recommended Oil : ISO VG32)

❹ INSPECT AND MAINTAIN DAILY OR BEFORE OPERATION

⚠ WARNING:

Disconnect air supply and empty the magazine when inspecting or maintaining the tool.

- (1) Drain air line filter and compressor
- (2) Keep lubricator filled in air 3-pieces set
- (3) Clean filter element of air 3-pieces set
- (4) Tighten all screws
- (5) Keep contact arm moving smoothly

6. STORING

- ① When not in use for an extended period, apply a thin coat of the lubricant to the steel parts to avoid rust.
- ② Do not store the tool in a cold weather environment. Keep the tool in a warm area.
- ③ When not in use, the tool should be stored in a warm and dry place. Keep out of reach of children.
- ④ All quality tools will eventually require servicing or replacement of parts because of wear from the normal use.

7. TROUBLE SHOOTING/REPAIRS

The troubleshooting and/or repairs shall be carried out only by the MAX CO., LTD. authorized distributors or by other specialists.