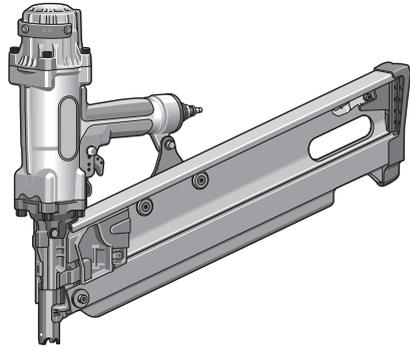


HS130(CE)

MAX[®]

HIGH PRESSURE FRAMING TOOL
HOCHDRUCK-STREIFENNAGLER
OUTIL D'ENCADREMENT À HAUTE PRESSION
ATTREZZO PER INCORNICIATURA AD ALTA
PRESSIONE
HERRAMIENTA DE ENMARCADO DE ALTA
PRESION



OPERATING and MAINTENANCE MANUAL BETRIEBSANLEITUNG MANUEL D'UTILISATION et D'ENTRETIEN MANUALE DI FUNZIONAMENTO E MANUTENZIONE MANUAL DE FUNCIONAMIENTO Y MANTENIMIENTO



WARNING

BEFORE USING THIS TOOL, STUDY THIS MANUAL TO ENSURE SAFETY WARNING AND INSTRUCTIONS.
KEEP THESE INSTRUCTIONS WITH THE TOOL FOR FUTURE REFERENCE.



WARNUNG

LESEN SIE VOR INBETRIEBNAHME DES GERÄTES DIE GEBRAUCHS- UND SICHERHEITSHINWEISE. BITTE BEWAHREN SIE DIE GEBRAUCHS- UND SICHERHEITSHINWEISE AUF, DAMIT SIE AUCH SPÄTER EINGESEHEN WERDEN KÖNNEN.



AVERTISSEMENT

AVANT D'UTILISER CET OUTIL, LIRE CE MANUEL ET LES CONSIGNES DE SECURITE AFIN DE GARANTIR UN FONCTIONNEMENT SUR.
CONSERVER CE MANUEL EN LIEU SUR AVEC L'OUTIL AFIN DE POUVOIR LE CONSULTER ULTERIEUREMENT.



ATTENZIONE

PRIMA DI USARE QUESTA MACCHINA, STUDIARE IL MANUALE PER PRENDERE ATTO DEGLI AVVERTIMENTI E DELLE ISTRUZIONI PER LA SICUREZZA.
TENERE QUESTE ISTRUZIONI INSIEME ALLO STRUMENTO PER CONSULTAZIONI FUTURE.



ADVERTENCIA

PARA EVITAR GRAVES DAÑOS PERSONALES O EN LA PROPIEDAD,
ANTES DE EMPLEAR LA HERRAMIENTA, LEER CON ADVERTENCIA Y COMPRENDER LOS SIGUIENTES INSTRUCCIONES DE SEGURIDAD.

INDEX INHALTSVERZEICHNIS INDEX INDICE INDICE

ENGLISH	Page	3	to	14
DEUTSCH	Page	15	to	26
FRANÇAIS	Page	27	to	38
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ESPAÑOL	Page	51	to	62
PORTUGUÊS	Consulte o CD-ROM ou o sítio web.			
NEDERLANDS	Raadpleeg de cd-rom of de website.			
SVENSKA	Se cd-skivan eller webbplatsen.			
NORSK	Referer til CD-ROMen eller til Web-sidene.			
FINNISH	Katso lisätietoja CD-ROM-levyltä tai verkkosivuilta.			
DANSK	Se cd-rom'en eller webstedet.			
POLSKI	Więcej informacji na płycie CD-ROM lub stronie internetowej.			
ΕΛΛΗΝΙΚΑ	Ανατρέξτε στο CD-ROM ή στην τοποθεσία Web.			
TÜRKÇE	CD-ROM veya Web sitesine bakınız.			
РУССКИЙ	См. на компакт-диске или на веб-сайте.			

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.

DEFINITIONEN DER HINWEISBEZEICHNUNGEN

WARNUNG	Zeigt eine eventuell gefährliche Situation an, die den Tod oder schwere Verletzungen zur Folge haben könnte, wenn sie nicht vermieden wird.
VORSICHT!	Zeigt eine eventuell gefährliche Situation an, die leichte oder mittelschwere Verletzungen zur Folge haben könnte, wenn sie nicht vermieden wird.
HINWEIS:	Hebt wichtige Informationen hervor.

DÉFINITIONS DES DIFFÉRENTS DEGRÉS D

AVERTISSEMENT	Indique une situation éventuellement dangereuse qui, si elle n'est pas contournée, pourrait provoquer la mort ou des blessures sérieuses.
ATTENTION	Indique une situation éventuellement dangereuse qui, si elle n'est pas contournée, pourrait provoquer des blessures légères à moyennement sérieuses.
REMARQUE	Souligne des informations importantes.

DEFINIZIONE DELLE INDICAZIONI DI AVVERTIMENTO

ATTENZIONE:	Indica l'eventualità che possa verificarsi una situazione pericolosa, la quale se non viene evitata, può risultare letale o provocare gravi lesioni.
AVVERTENZA:	Indica l'eventualità che possa verificarsi una situazione pericolosa, la quale se non viene evitata, può provocare lesioni di lieve o media entità.
NOTA:	Evidenzia informazioni importanti.

DEFINICIÓN DE LAS INDICACIONES DE ADVERTENCIA

ADVERTENCIA	Indica una situación potencialmente peligrosa que podría causar la muerte o graves lesiones si no se evita.
PRECAUCIÓN	Indica una situación potencialmente peligrosa que podría causar lesiones menos graves o leves si no se evita.
NOTA:	Resalta informaciones importantes.

ENGLISH

OPERATING and MAINTENANCE MANUAL

INDEX

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WARNING

BEFORE USING THIS TOOL, STUDY THIS MANUAL TO ENSURE SAFETY WARNING AND INSTRUCTIONS.
KEEP THESE INSTRUCTIONS WITH THE TOOL FOR FUTURE REFERENCE.

1. SAFETY INSTRUCTIONS



WARNING

TO AVOID SEVERE PERSONAL INJURY OR PROPERTY DAMAGE

BEFORE USING THE TOOL, READ CAREFULLY AND UNDERSTAND THE FOLLOWING "SAFETY INSTRUCTIONS". FAILURE TO FOLLOW WARNINGS COULD RESULT IN DEATH OR SERIOUS INJURY.

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 Council Directive 89/686/EEC of 21 DEC. 1989 (the American National Standards Institute, ANSI Z87.1) and provide both frontal and side protection.

The employer is responsible to enforce the use of eye protection equipment by the tool

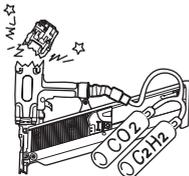
operator and all other personnel in the work area.

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



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. WHEN USING THE TOOL, BE SURE TO USE A SPECIAL AIR COMPRESSOR AND AIR HOSE

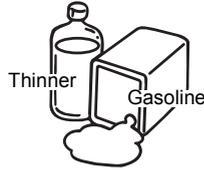
In order to improve its performance, it has set its working pressure higher than the conventional nailers. To use the tool, you always need the special air compressor and air hose. Use of combustible pressure gas (for example, oxygen, acetylene, etc.) causes abnormal combustion, possibly resulting in explosion. Use only the special air compressor and air hose.



4. OPERATE WITHIN THE PROPER AIR PRESSURE RANGE

The tool is designed to operate within an air pressure range of 17 to 23 bar (250 to 320 p.s.i.).

The pressure should be adjusted to the type of the work being fastened. The tool shall never be operated when the operating pressure exceeds 23 bar (320 p.s.i.).



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. NEVER USE THE TOOL IN AN EXPLOSIVE ATMOSPHERE

Sparks from the tool may ignite atmospheric gases, dust or other combustible materials.

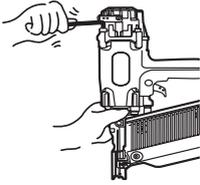
7. DO NOT USE A WRONG FITTINGS

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.



8. 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 unattended, moving to a different work area, adjusting, disassembling, or repairing the tool, and when clearing a jammed fastener.



9. 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.



10. 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.

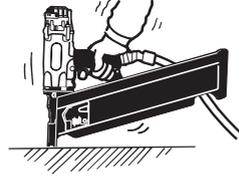


11. NEVER POINT THE DISCHARGE OUTLET TOWARD YOURSELF AND OTHER PERSONNEL

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 and unloading the fasteners or similar operations.

12. USE SPECIFIED FASTENERS (SEE PAGE 7)

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



13. PLACE THE DISCHARGE OUTLET ON THE WORK SURFACE PROPERLY

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



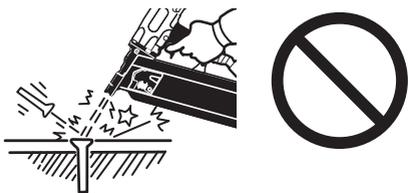
14. KEEP HANDS AND BODY AWAY FROM THE DISCHARGE OUTLET

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.



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

The workpiece is likely to split and the fastener could fly free and hit someone.



16. DO NOT DRIVE FASTENERS ON TOP OF OTHER FASTENERS

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

17. 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.

18. 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 contact trip mechanism.



19. 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 lose 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.

20. NEVER USE THE TOOL IF ANY PORTION OF THE TOOL CONTROLS (e.g., TRIGGER, CONTACT ARM) IS INOPERABLE, DISCONNECTED, ALTERED OR NOT WORKING PROPERLY

21. NEVER ACTUATE THE TOOL INTO FREE SPACE

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

22. ALWAYS ASSUME THAT THE TOOL CONTAINS FASTENERS

23. RESPECT THE TOOL AS A WORKING IMPLEMENT

24. NO HORSEPLAY

25. NEVER LOAD THE TOOL WITH FASTENERS WHEN ANY ONE OF THE OPERATING CONTROLS (e.g., TRIGGER, CONTACT ARM) IS ACTIVATED

26. WEAR THE GLOVES DEPENDING ON THE WORKING CONDITION

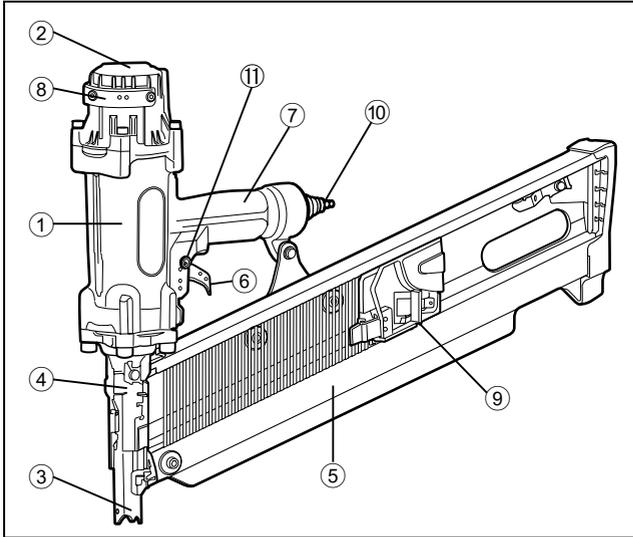
27. WHEN DISPOSING THE MACHINE OR ITS PARTS, FOLLOW THE RELEVANT NATIONAL RULES

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 the grip, never carry the tool by the air hose.
- The tool must be used only for the purpose it was designed.
- Never remove, tamper with the operating controls (e.g., TRIGGER, CONTACT ARM)
- 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 AND TECHNICAL DATA

1. NAME OF PARTS



- ① Frame
- ② Cylinder Cap
- ③ Contact Arm
- ④ Nose
- ⑤ Magazine
- ⑥ Trigger
- ⑦ Grip
- ⑧ Exhaust Cover
- ⑨ Pusher
- ⑩ Plug
- ⑪ Trigger Lock Dial

2. TOOL SPECIFICATIONS

PRODUCT NO.	HS130
HEIGHT	426 mm (16-3/4")
WIDTH (Frame)	85 mm (3-3/8")
LENGTH	571 mm (22-1/2")
WEIGHT	4.3 kg (9.5 lbs.)
RECOMMENDED OPERATING PRESSURE	17 to 23 bar (250 to 320 p.s.i.)
LOADING CAPACITY	60 Nails
AIR CONSUMPTION	5.4 l at 23 bar (320 p.s.i.) operating pressure

* The compact design of the tool allows you to use in the narrow space.

3. FASTENER SPECIFICATIONS

PRODUCT NO.	HS130
NAIL LENGTH	90 to 130 mm (3-1/2" to 5-1/8")
SHANK DIAMETER	φ3.1 to φ4.2 mm (.112" to .165")
SHANK TYPE	Smooth, Ring, Screw
HEAD DIAMETER	φ7.0 to φ8.5 mm (.276" to .335")

RECOMMENDED OPERATING PRESSURE:

17 to 23 bar (250 to 320 p.s.i.). Select the operating air pressure within this range for best fastener performance.

DO NOT EXCEED 23 bar (320 p.s.i.).

4. TECHNICAL DATA

1 NOISE

A-weighted single-event sound power level
----- LWA, 1s, d 101.5 dB

A-weighted single-event emission sound pressure level at work station

----- LpA, 1s, d 92.0 dB

These values are determined and documented in accordance to EN12549 : 1999.



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.



2 VIBRATION

Vibration characteristic value = 6.6 m/s^2

These values are determined and documented in accordance to ISO 8662-11.

This value is a tool-related characteristic value and does not represent the influence to the hand-arm-system when using the tool. An influence to the hand-arm-system when using the tool will, for example, depend on the gripping force, the contact pressure force, the working direction, the adjustment of mains supply, the workpiece, the workpiece support.

5. APPLICATIONS

- * Roof, Floor and Wall framing
- * Truss framing

3. AIR SUPPLY AND CONNECTIONS



WARNING

Read section titled "SAFETY INSTRUCTIONS".



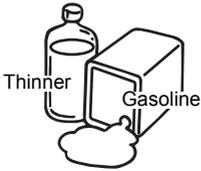
DO NOT USE ANY POWER SOURCE EXCEPT AN AIR COMPRESSOR

The tool is designed to operate on compressed air. Do not operate the tool on any other 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 is designed to operate within an air pressure range of 17 to 23 bar (250 to 320 p.s.i.). The pressure should be adjusted to the type of the work being fastened. The tool shall never be operated when the operating pressure exceeds 23 bar (320 p.s.i.).

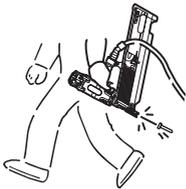


DO NOT OPERATE THE TOOL NEAR A FLAMMABLE SUBSTANCE

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 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 unattended, moving to a different work area, adjusting, disassembling, or repairing the tool, and when clearing a jammed fastener.

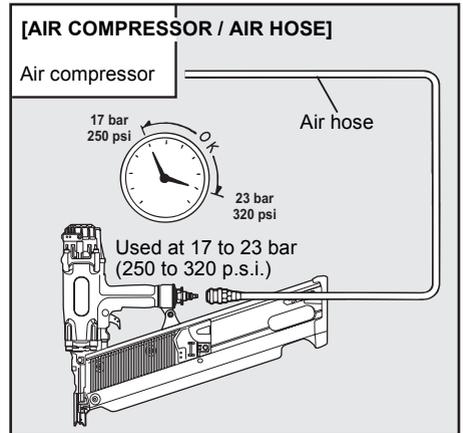
4. INSTRUCTIONS FOR OPERATION

READ SECTION TITLED "SAFETY INSTRUCTIONS".

1. BEFORE OPERATION

Check the following prior 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.



WHEN USING THE TOOL, BE SURE TO USE A SPECIAL AIR COMPRESSOR AND AIR HOSE.

In order to improve its performance, it has set its working pressure higher than the conventional nailers. To use the tool, you always need the special air compressor and air hose (MAX PowerLite Compressor and MAX PowerLite Hose). Use of high-pressure gas (for example, oxygen, acetylene, etc.) causes abnormal combustion, possibly resulting in explosion. Use only the special air compressor and air hose.

NOTE:

Frequent, but not excessive, lubrication is required for the best performance. Oil added thru the air line connection will lubricate the internal parts.

- 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 Council Directive 89/686/EEC of 21 DEC. 1989 (the American National Standards Institute, ANSI Z87.1) 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.



WARNING



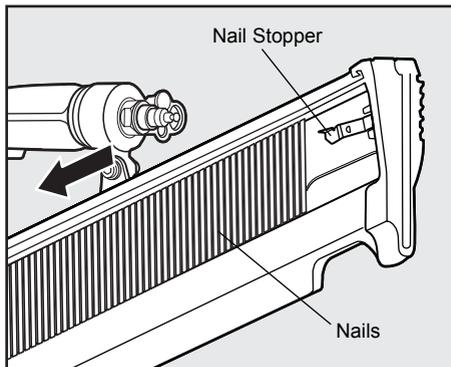
Keep hands and body away from the discharge outlet when driving the fasteners because of dangerous of hitting the hands or body by mistake.



WARNING

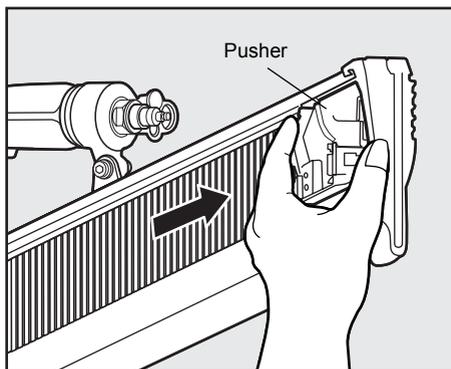
NAIL LOADING

- When loading the nails, be sure to release the finger from the Trigger.
- Do not press the Contact Arm against the object.



PROCEDURE

- ① Load the nails into the slot in the rear of the Magazine until they go over the Nail Stopper.



- ② Pull the Pusher as far as the rear end of the magazine and release it gently.



CAUTION

Abrupt release of the Pusher causes jamming of nails or dry-firing.

TEST OPERATION

- ① Adjust the air pressure at 17 bar (250 p.s.i.) and connect the air supply.
- ② Without touching the trigger, depress the contact arm against the work-piece. Pull the trigger. (The tool must fire the fastener.)
- ③ With the tool off the work-piece, pull the trigger.

Then depress the contact arm against the work-piece. (The tool must fire the fastener.)

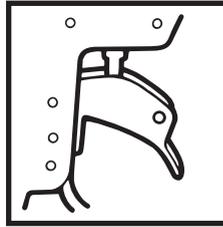
- 4 Adjust the air pressure as much as the lowest possible according the length of fastener and the hardness of work-piece.

MODEL IDENTIFICATION

SEQUENTIAL TRIP

The Sequential Trip requires the operator to hold the tool against the work before pulling the trigger. This makes accurate fastener placement easier, for instance on framing, toe nailing and crating applications. The Sequential Trip allows exact fastener location without the possibility of driving a second fastener on recoil, as described under "Contact Trip".

The Sequential Trip Tool has a positive safety advantage because it will not accidentally drive a fastener if the tool is contacted against the work- or anything else-while the operator is holding the trigger pulled.



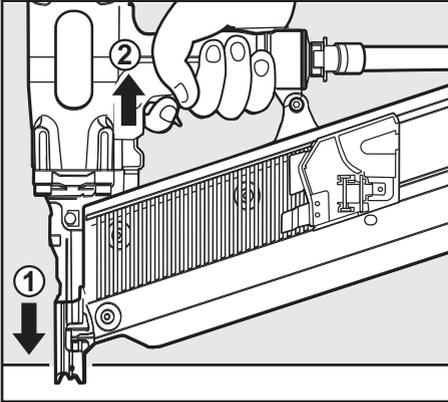
SEQUENTIAL TRIP

Identified by **ORANGE TRIGGER**.

DRIVING FASTENERS

SINGLE FIRE OPERATION (SEQUENTIAL TRIP)

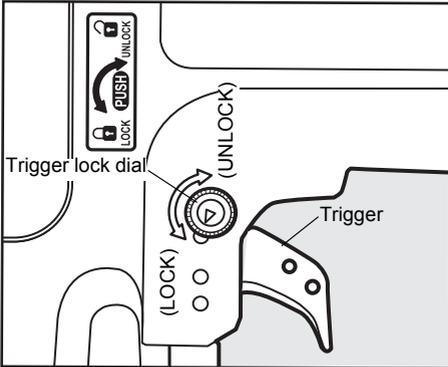
For single fire operation, depress the contact arm against the work surface and pull the trigger. Tool can not fire a second fastener until the trigger is released and tool can cycle.



PROCEDURE

- ① Depress the contact arm.
- ② Pull the trigger.

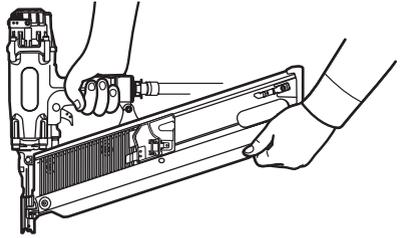
TRIGGER LOCK MECHANISM



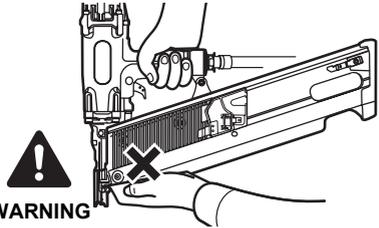
The tool is equipped with a trigger lock mechanism. Push and rotate the trigger LOCK to the trigger UNLOCK position before driving nails.

DRIVING FASTENERS

When using the tool with both hands;

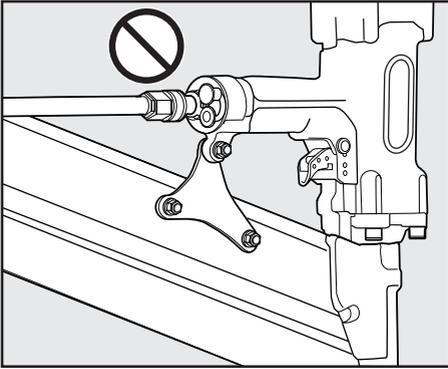


Hold the rear of the magazine to use.



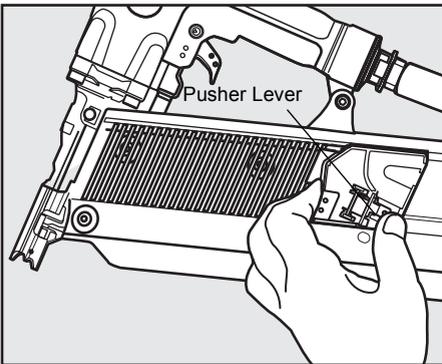
WARNING
Do not hold the front of the magazine because your hand may be injured by nails.

REMOVING JAMMED NAILS



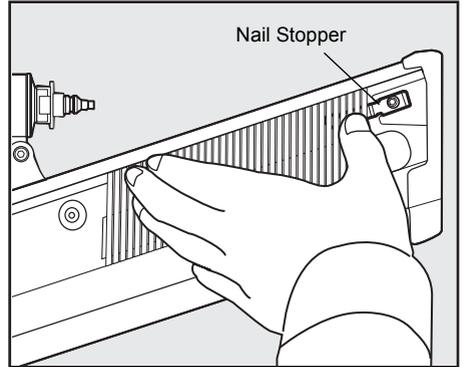
WARNING

ALWAYS disconnect air supply before removing jammed nails.

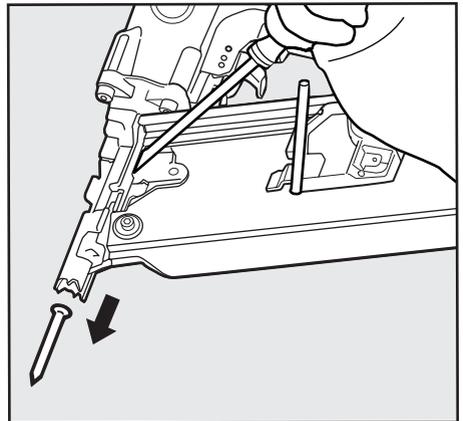


PROCEDURE

- 1 Push the Pusher Lever and release the strip nails from the Pusher.



- 2 Push the Nail Stopper, and remove the strip nails from inside of the Magazine.



- 3 Pull and stayed the Pusher with hand.
- 4 Remove the jammed nail from the Nose using a punch or a slotted screw driver.



WARNING

When removing the jammed nail, wear the gloves.
Do not remove the jammed nail with your bare hands.

5. MAINTENANCE

1 ABOUT PRODUCTION YEAR

This product bears production number at the lower part of the grip of the main body. The two digits of the number from left indicates the production year.

(Example)

0 8 8 2 6 0 3 5 D

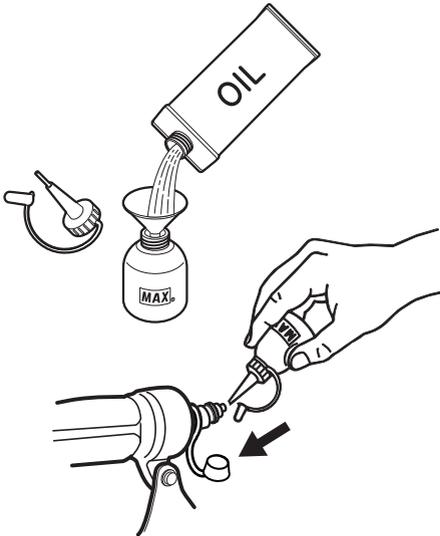


Year 2008

2 DO NOT FIRE THE NAILER WHEN IT IS EMPTY

3 USE RECOMMENDED OIL

The velocite or turbine oil should be used to lubricate the tool. Upon completion of operations, place 5 or 6 drops of oil into the air plug inlet with the jet oiler. (Recommended Oil : ISO VG32)



4 INSPECT AND MAINTAIN DAILY OR BEFORE OPERATION



WARNING

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

- (1) Tighten all screws
- (2) Keep contact arm moving smoothly

6. STORAGE

- 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. authorised distributors or by other specialists.



Supplement to the operating instruction

According to the European Norm EN 792-13 the regulation is valid from 01.01.2001 that all fastener driving tools with contact actuation must be marked with the symbol "Do not use on scaffoldings, ladders" and they shall not be used for specific application for example:

- * when changing one driving location to another involves the use of scaffoldings, stairs, ladders or ladder alike constructions e.g. roof laths,
- * closing boxes or crates,
- * fitting transportation safety systems e.g. on vehicles and wagons.