

# CN452S

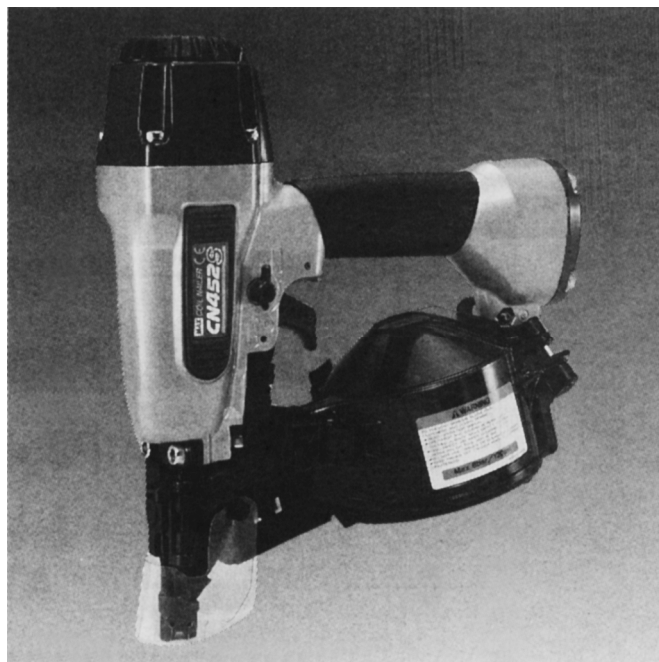
PNEUMATIC COIL NAILER

DRUCKLUFT-COIL-NAGLER

CLOUEUSES PNEUMATIQUES  
A BOBINES

SPARACHIODI AD ARIA COMPRESSA  
CON CARICAMENTO A ROTOLO

CLAVADORAS NEUMATICAS PARA  
ROLLOS DE CLAVOS



## OPERATING and MAINTENANCE MANUAL BETRIEBSANLEITUNG MANUEL D'UTILISATION et D'ENTRETIEN MANUALE DI FUNZIONAMENTO E MANUTENZIONE MANUAL DE OPERACIONES 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.

### **⚠ ACHTUNG!**

LESEN SIE VOR INBETRIEBNAHME DES GERÄTES DIE GEBRAUCHS- UND SICHERHEITS-HINWEISE. 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

### **⚠ ATENCION:**

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

## INDEX   INHALTSVERZEICHNIS INDEX   INDICE   INDICE

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**ITALIANO      Page 39 to 50 Page**

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### **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**

**ACHTUNG!**      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'AVERTISSEMENTS**

**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**

**¡ATENCIÓN!**      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**

# CN452S

## PNEUMATIC COIL NAILER

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### OPERATING and MAINTENANCE MANUAL

#### **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

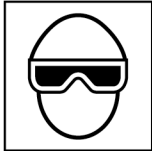


### **WARNING:**

#### **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 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. **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.



#### 8. **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.



#### 9. **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.



#### 10. **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.

#### 11. **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.



#### 12. **PLACE THE DISCHARGE OUTLET TO THE WORK 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.



#### 13. **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.



#### 14. **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.



#### 15. **DO NOT DRIVE FASTENERS ON THE TOP OF OTHER FASTENERS**

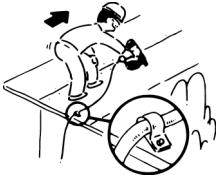
Driving fasteners on the top of other fasteners may cause deflection fasteners which could cause injury.

#### 16. **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.

#### 17. **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.



**18. 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.

**19. 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.

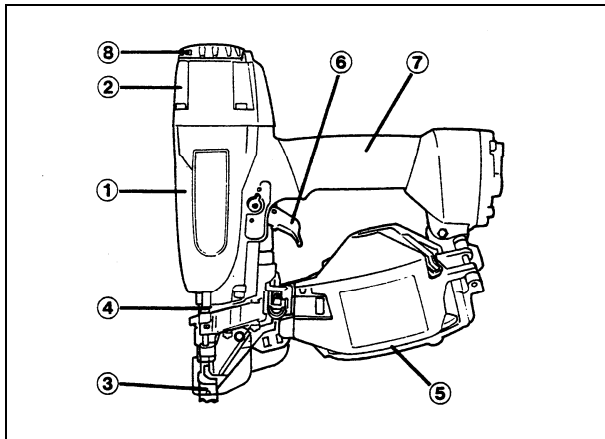
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**OBSERVE THE FOLLOWING GENERAL CAUTION IN ADDITION TO  
THE OTHER WARNINGS CONTAINED IN THIS MANUAL**

- 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 AND TECHNICAL DATA

### 1. NAME OF PARTS



- A Frame
- B Cylinder Cap
- X Contact Arm
- Δ Nose
- E Magazine
- Φ Trigger
- Γ Grip
- H Exhaust Cover

### 2. TOOL SPECIFICATIONS

HEIGHT	11-3/16" (284 mm)
WIDTH	4-1/4" (108 mm)
LENGTH	10-3/8" (260 mm)
WEIGHT	3.5 lbs. (1.6 kg)
RECOMMENDED OPERATING PRESSURE	60 to 100 p.s.i. (4 to 7 bar)
LOADING CAPACITY	400 Nails
AIR CONSUMPTION	0.7 at 90 p.s.i. (6 bar) operating pressure
ACCESSORIES	Hex. bar wrench

### 3. FASTENER SPECIFICATIONS

NAIL LENGTH	1" to 2" (25 to 50 mm)
SHANK DIAMETER	.063" to .083" (1.59 to 2.1 mm)
SHANK TYPE	Smooth, Ring, Screw
HEAD DIAMETER	.138" to .197" (3.5 to 5.0 mm)

### TOOL AIR FITTINGS:

This tool uses a 1/4" N.P.T. male plug. The inside diameter should be .28" (7mm) 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), CN890B: 85 to 100 p.s.i. (6 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. TECHNICAL DATA

### A NOISE

A-weighted single-event ----- LWA, 1s, d 93.72 dB  
sound power level

A-weighted single-event ----- LpA, 1s, d 85.82 dB  
emission sound pressure  
level at work station

These values are determined and documented in accordance to CEN/TC 255 WG 1N 45.3 E. (EN-standard in preparation)

### B VIBRATION

Vibration characteristic value =  $3.43 \text{ m/s}^2$

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

\* General construction works including siding, decking, panel sheathing

**▲ 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 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 should never be operated when the operating pressure exceeds 120 p.s.i. (8 bar.)

#### DO NOT OPERATE THE TOOL NEAR A FLAMMABLE SUBSTANCE

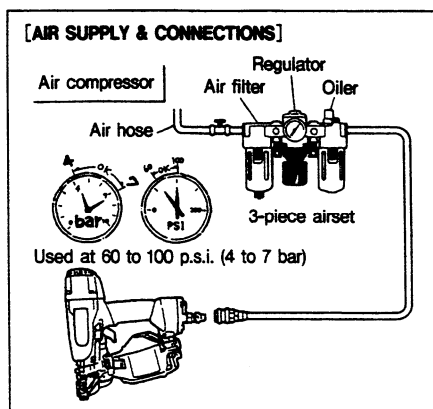
Never operate the tool near a flammable substance (e.g., thinner, gasoline, etc.). Volatile fumes from these substances could be drawn into the compressor and compressed together with the air and this could result in an explosion.

#### 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 1/4" (6 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

- A Wear Safety Glasses or Goggles.
- B Do not connect the air supply.
- X Inspect screw tightness.
- Δ Check operation of the contact arm & trigger if moving smoothly.
- E Connect the air supply.
- Φ Check the air-leakage. (The Tool must not have the air-leakage.)
- Γ Hold the Tool with finger-off the trigger, then push the contact arm against the work-piece. (The tool must not operate.)
- H Hold the Tool with contact arm free from work-piece and pull the trigger. (The Tool must not operate.)
- I Disconnect the air supply.

### ▲ WARNING:



### 2. OPERATION

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.

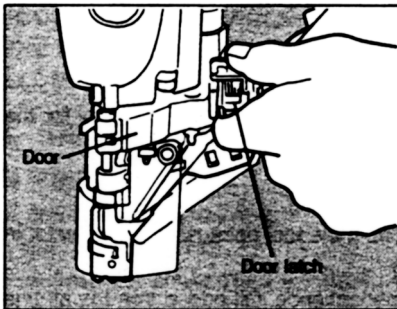
The employer and/or user must ensure that proper eye protection is worn. Eye protection equipment must conform to the requirements of the American National Standards Institute, ANSI Z87.1 (Council Directive 89/686/EEC of 21 DEC. 1989) and provide both frontal and side protection.

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

### ▲ WARNING:

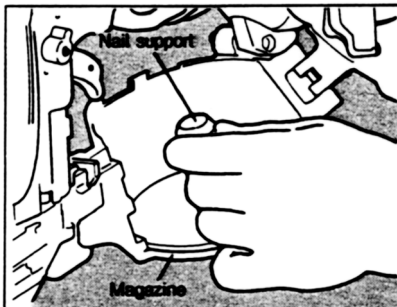


Keep hands and body away from the discharge outlet when driving the fasteners because of dangerous of hitting the hands or body by mistake.

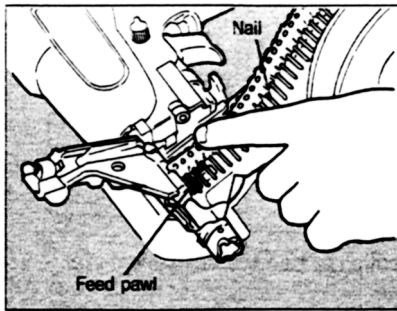


### NAIL LOADING

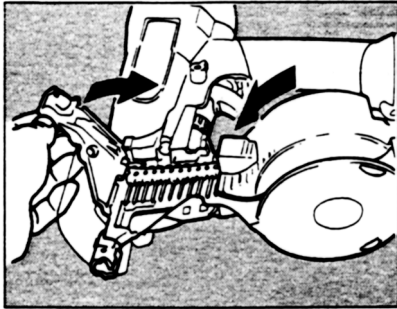
- A Open the magazine:  
Hold door and door latch by fingers and pull up door latch. Swing door open. Swing magazine cover open.



- B Check adjustment:  
The nail support can be moved up and down to four settings. To change setting pull up on the post and twist to the correct step. The nail support should be adjusted correctly to the position indicated in inches and millimeters inside magazine.



- X Nail loading:  
Place a coil of nails over the post in the magazine. Uncoil enough nails to reach the feed pawl, and place the second nail between the teeth on the feed pawl. The nail heads fit in slot on nose.



- Δ Swing cover closed.
- E Close the door.  
Check that latch engages. (If it does not engage, check that the nail heads are in the slot on the nose).
- \* It is also possible to close the door first, followed by the cover.

### TEST OPERATION

- A Adjust the air pressure at 70 p.s.i. (5 bar) and connect the air supply.
- B Without touching the trigger, depress the contact arm against the work-piece.  
Pull the trigger. (The tool must fire the fastener.)
- X With the tool off the work-piece, pull the trigger.  
The depress the contact arm against the work-piece.  
(The tool must fire the fastener.)
- Δ Adjust the air pressure as much as the lowest possible according to the diameters and length of fastener and the hardness of work-piece.

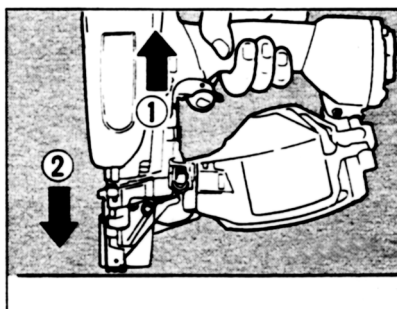
### DRIVING FASTENERS

This tool is designed to be used with "RAPID FIRE OPERATION", although it also has single fire capability.

#### RAPID FIRE OPERATION

For rapid fire operation, depress the trigger and push the contact arm tip against the work surface. Each time contact is made a fastener is driven.

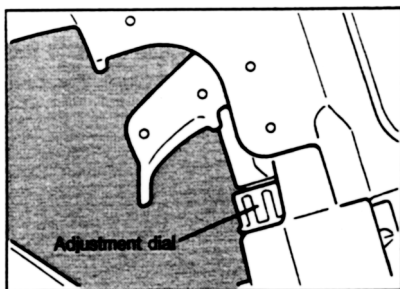
This method of operation is suitable when nails are fastened such as when securing flooring, walls and roofing.



#### PROCEDURE

- A Pull the trigger.
- B Wire the trigger depressed, push the contact arm tip against the work surface.

To operate the tool using the single fire mode, press the contact arm tip against the work surface and pull the trigger to drive just one nail at a time.

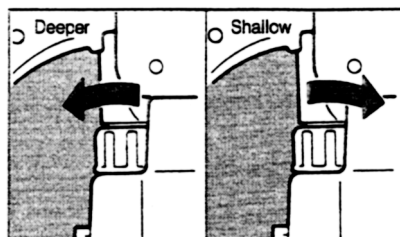


## DRIVING DEPTH ADJUSTMENT DIAL

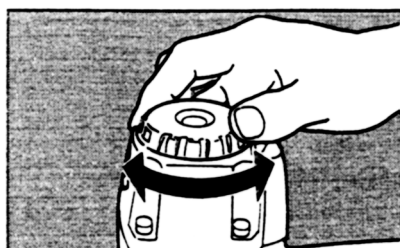
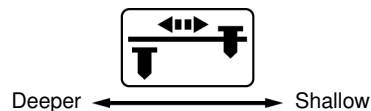
### ▲ WARNING:

**ALWAYS disconnect air supply before adjustment dial.**

- A With air pressure set, drive nails into a representative material sample to determine if adjustment is necessary.
- B If adjustment is required, disconnect air supply.
- X Refer to the mark on the contact arm for direction to turn the adjustment dial.



△ Reconnect air supply.

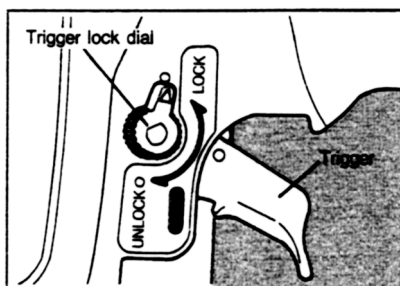


## DIRECTIONAL EXHAUST COVER

### ▲ WARNING:

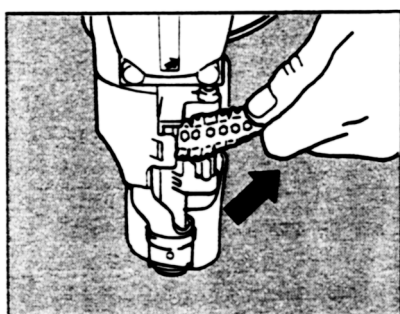
**ALWAYS disconnect air supply before rotating the exhaust cover.**

Direction of the exhaust air is changeable by rotating exhaust cover by hand.



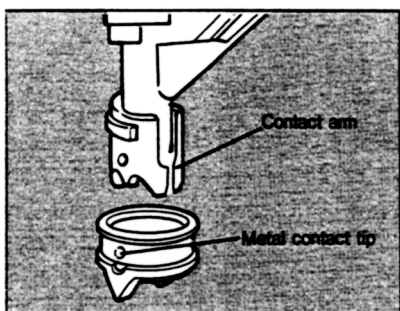
## TRIGGER LOCK MECHANISM

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



## HOW TO REMOVE PLASTIC SHEET

As nails are driven the plastic sheet will feed out of the tool. When sufficient strip has been fed out it can be torn away by pulling against the tear edge in the nose.



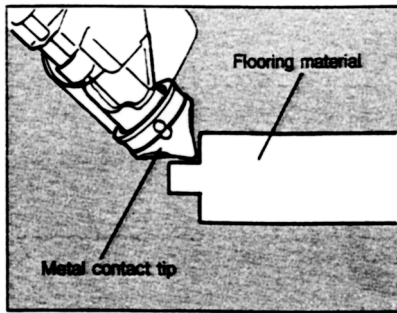
## ADDITIONAL INSTRUCTIONS FOR NEW CN452S COIL NAILER

### METAL CONTACT TIP FOR LOORING APPLICATION

#### CONTACT TIP REPLACEMENT

### ▲ WARNING:

**ALWAYS disconnect air supply before attaching / detaching the contact tip.**



- A Mount the metal contact tip firmly, onto the contact arm.
- B Metal contact tip can be mounted with tool in horizontal or vertical position.
- X Place the tool onto the flooring material as illustrated.

RUBBER CONTACT TIP FOR DRY WALL APPLICATION

## 5. MAINTAIN FOR PERFORMANCE

### A DO NOT FIRE THE NAILER WHEN IT IS EMPTY

### B 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.

### X 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)

### Δ 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

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