



## PN70CL

*Pneumatic Industrial Clinch Nailer*



### OPERATIONS and MAINTENANCE MANUAL CE DECLARATION OF CONFORMITY



BEFORE OPERATING THIS TOOL, ALL OPERATORS SHOULD READ AND STUDY THIS MANUAL TO UNDERSTAND AND FOLLOW THE SAFETY WARNINGS AND INSTRUCTIONS. KEEP THESE INSTRUCTIONS WITH THE TOOL FOR FUTURE REFERENCE.

## **INTRODUCTION**

The tool is designed for high speed, high volume nailing. These tools will deliver efficient, dependable service when used correctly and with care. As with any fine power tool, the manufacturer's instructions must be followed for best performance. Please study this manual before operating the tool and understand the safety warnings and cautions. The instructions on installation, operation and maintenance should be read carefully, and the manuals kept for reference. NOTE: Additional safety measures may be required because of your particular application of the tool. Contact your EVERWIN representative or distributor with any questions concerning the tool and its use. Everwin Pneumatic Corp., Taichung City, Taiwan 41353.

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# **1-YEAR LIMITED WARRANTY**

**(U.S. and Canada Only)**

EVERWIN products are designed and manufactured to the highest standards of both material and workmanship. EVERWIN warrants to the original retail purchaser that the product purchased is free from defect in material and workmanship and agrees to repair or replace at EVERWIN 's option any defective EVERWIN pneumatic stapler or nailer for a period of one year, subject to the exclusions and limitations described hereunder. To honor a warranty claim, EVERWIN and its authorized distributor need proof of purchase, may request the damaged tool, serial number of the damaged tool, photos/videos of the defect for test and evaluation to determine whether the damaged tool is within warranty conditions; your cooperation in this regard will be appreciated to expedite the claim process and to help with EVERWIN's continuous efforts in quality improvement.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. EVERWIN SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

## **WARRANTY EXCLUSIONS**

The following warranty exclusions apply:

- a. Normal wear parts are not covered by this warranty. Examples of such parts include, o-rings and seals, driver blades, bumpers, pistons and piston rings.
- b. Failure due to normal wear, neglect, abuse, misuse, misapplication, accidents, over-pressure usage, improper storage, shipping damages, improper maintenance, operation not within the operation manual's specification etc. are not covered by this warranty.
- c. Labor charges, loss, repairs from improper maintenance and/or usage of non-EVERWIN parts are not covered by this warranty.
- d. This warranty does not apply to production or industrial tools as defined by EVERWIN; industrial or production tools are covered on the following grounds.

## **GROUND FOR INDUSTRIAL / PRODUCTION TOOL COVERAGE**

For high production industrial tools, coverage is limited to 90 days due to high volume usage; warranty on production tools cannot be guaranteed due to unpredictable circumstances. Tools are subjected to abuse such as hammering or usage of adjustment tools, especially true in loan tool programs. Upon receiving a report, EVERWIN and its authorized distributor may request the damaged tool, serial number of the damaged tool (as a gauge for the tool's age) and photos/videos of the defect for test and evaluation to find root causes. EVERWIN's analyst will judge the issuance of defective parts and will replace at no charge if evaluation results show that the root cause is defect in material and/or workmanship.

*Note: all warranty services will be carried out by EVERWIN authorized repair centers, please contact [sales@everwinpneumatic.com](mailto:sales@everwinpneumatic.com) for the location most convenient for you.*

## CE DECLARATION OF CONFORMITY

CE Declaration of conformity

ENGLISH

**EVERWIN PNEUMATIC CORP.** declares that the product as described in attached documentation is in conformity with the Machinery Directive **2006/42/EC** and the European standard **EN 792-13**.

CE Dichiarazione di conformità

ITALIANO

**EVERWIN PNEUMATIC CORP.** dichiara, assumendo la piena responsabilità, che questa fissatrice è conforme alla Direttive Europee **2006/42/EC** e alla norma armonizzata **EN 792-13**.

CE Konformitätserklärung

DEUTSCH

**EVERWIN PNEUMATIC CORP.** erklärt hiermit in alleiniger Verantwortung das dieses Gerät übereinstimmt mit den Europäischen Richtlinien **2006/42/EC** und den Europäischen Norm **EN 792-13**.

CE Déclaration de conformité

FRANCAIS

**EVERWIN PNEUMATIC CORP.** déclare et prend sur soi toute la responsabilité de cette déclaration, que le produit est en conformité avec les Directives Européennes **2006/42/EC** et avec la norme harmonisée **EN 792-13**.

CE konformiteitsverklaring

NEDERLANDS

**EVERWIN PNEUMATIC CORP.** verklaart hierbij onder eigen verantwoording dat deze machine in overeenstemming is met de Europese Richtlijnen **2006/42/EC** en de Europese norm **EN 792-13**.

CE Declaracion de conformidad

ESPAÑOL

**EVERWIN PNEUMATIC CORP.** declaramos bajo nuestra sola responsabilidad que este producto esta en conformidad con las Directivas Europeas **2006/42/EC** y con la normativa **EN 792-13**.

Overensstemmelseserklæring / CE Deklaration

DANSK

**EVERWIN PNEUMATIC CORP.** erklærer herved, at produktet er i overensstemmelse med nedenstående normer eller normative dokumenter **2006/42/EC** i henhold til bestemmelserne i EU's direktiv **EN 792-13**.

Överstämmeelseförklaring / CE Deklaration

SVENSK

**EVERWIN PNEUMATIC CORP.** förklarar härmed att produkten överensstämmer med följande normer och direktiv **2006/42/EC** och **SS-EN 792-13**.

SAMSVARSERKLÆRING / CE Deklaration

NORSK

**EVERWIN PNEUMATIC CORP.** erklærer herved att produktet er i samsvar med følgende normer og direktiv **2006/42 EC** og **NS-EN 792-13**.

Todistus CE standardinmukaisuudesta

FINSK

**EVERWIN PNEUMATIC CORP.** vakuuttaa täten tuotteen vastaavan seuraavia standardeja ja direktiivejä: **2006/42/EC** ja **EN 792-13**.

Deklaracja zgodności CE

POLSKIE

**EVERWIN PNEUMATIC CORP.** oświadcza, że produkty opisane w załączonej dokumentacji spełniają wymogi Dyrektywy Maszynowej **2006/42/EC** oraz Europejskiej normy **EN 792-13**.

**Machine Type:** PN70CL

**Machine Name:** Pneumatic Fastener Driving Tool

**Place of Issue:** No. 7, Wugong 7th Rd., Wufeng Dist., Taichung City 41353, Taiwan.

**Date of Issue:** May 06, 2020

Signature of Issuer: \_\_\_\_\_



Hung-Ming Chuang  
General Manager

## SAFETY INSTRUCTIONS

### **⚠WARNING:**

#### TO AVOID SEVERE PERSONAL INJURY OR PROPERTY DAMAGE



BEFORE OPERATING THIS TOOL, ALL OPERATORS SHOULD READ AND STUDY THIS MANUAL TO UNDERSTAND AND FOLLOW THE SAFETY WARNINGS AND INSTRUCTIONS. FAILURE TO FOLLOW WARNINGS COULD RESULT IN DEATH OR SERIOUS INJURY. KEEP THESE INSTRUCTIONS WITH THE TOOL FOR FUTURE REFERENCE.

#### SAFETY INSTRUCTIONS:



EYE PROTECTION which conforms to ANSI/ CE specifications and provides protection against flying particles both from the FRONT and SIDE should ALWAYS be worn by the operator and others in the work area when connecting to air supply, loading, operating or servicing this tool. Eye protection is required to guard against flying fasteners and debris, which could cause severe eye injury.

The employer and/or user must ensure that proper eye protection is worn. Eye protection equipment must conform to the requirements of the ANSI Z87.1 and 89/686/EEC, and provide both frontal and side protection. NOTE: Non-side shielded spectacles and face shields alone do not provide adequate protection.



CAUTION: Additional Safety Protection will be required in some environments. For example, the working area may include exposure to noise level which can lead to hearing damage. The employer and user must ensure that any necessary hearing protection is provided and used by the operator and others in the work area. Some environments will require the use of head protection equipment. When required, the employer and user must ensure that head protection conforming to ANSI Z89.1/ CE is used.



#### AIR SUPPLY AND CONNECTIONS

Do not use oxygen, combustible gases, or bottled gases as a power source for this tool as tool may explode possibly causing injury.

Do not use supply sources which can potentially exceed 200 PSI (14 kg/cm<sup>2</sup>) as tool may burst, possibly causing injury.

### **⚠WARNING:**



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.

Do not pull trigger or depress contact arm while connected to the air supply as the tool may cycle, possibly causing injury.

Always disconnect air supply: 1.) Before making adjustments; 2.) When servicing the tool; 3.) When clearing a jam; 4.) When tool is not in use; 5.) When moving to a different work area, as accidental actuation may occur, possibly causing injury.



#### NAIL LOADING

When loading tool: 1.) Never place a hand or any part of body in fastener discharge area of tool; 2.) Never point tool at anyone; 3.) Do not pull the trigger or depress the trip as accidental actuation may occur, possibly causing injury.

### **⚠WARNING:**



#### OPERATION

Always handle the tool with care: 1.) Never engage in horseplay; 2.) Never pull the trigger unless nose is directed toward the work; 3.) Keep others a safe distance from the tool while tool is in operation as accidental actuation may occur, possibly causing injury.

The operator must not hold the trigger pulled on contact arm tools except during fastening operation as serious injury could result if the trip accidentally contacts someone or something, causing the tool to cycle.

Keep hands and body away from the discharge area of the tool. A contact arm tool may bounce from the recoil of driving a fastener and an unwanted second fastener may be driven, possibly causing injury.

Check operation of the contact-arm mechanism frequently. Do not use the tool if the arm is not working correctly as accidental driving of a fastener may result. Do not interfere with the proper operation of the contact-arm mechanism.

Do not drive fasteners on top of other fasteners or with the tool at an overly steep angle as this may cause deflection of fasteners which could cause injury.

Do not drive fasteners close to the edge of the work piece as the wood may split, allowing the fastener to be deflected possibly causing injury.

### **⚠WARNING:**

#### MAINTAINING THE TOOL

When working on air tools, note the warnings in this manual and use extra care when evaluating problem tools.

## **SPECIFICATIONS**

### **TOOL SPECIFICATIONS**

HEIGHT	15.7" (398 mm)
WIDTH	5.5" (139 mm)
LENGTH	14.2" (360 mm)
WEIGHT	15.0 lbs. (6.8 kg)
RECOMMENDED OPER. PRESSURE	70 to 120 PSI (5 to 8 bar)
LOADING CAPACITY	225 Nails
AIR CONSUMPTION at 90 PSI (6 bar) pressure	3.6 cfm (1.7 liter/sec)

### **FASTENER SPECIFICATION**

NAIL LENGTH	1-7/8" (47.6 mm)
SHANK DIA.	.113" (2.9 mm)
SHANK TYPE	Smooth

### **TOOL AIR FITTING**

This tool uses a 1/4"-18 N.P.T. or 1/4"-19 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.

### **OPERATING PRESSURE**

70 to 120 PSI (5 to 8 kg/cm<sup>2</sup>). Select the operating pressure within this range for best fastener performance. **DO NOT EXCEED THIS RECOMMENDED OPERATING PRESSURE.**

## **TECHNICAL DATA**

### **AIR CONSUMPTION**

Tool air consumption: **3.6 cfm (1.7 liter/sec.)** of free air to operate at the rate of 100 nails per minute, at 90 PSI (6.0 kg/cm<sup>2</sup>). Take the actual rate at which the tool will be run to determine the amount of air required. For instance, if your fastener usage averages 50 nails per minute, you need 50% of the tool air consumption in running at 100 nails per minute

### **NOISE**

A-weighted single-event sound power level LWA, 1s, 115.7 dBA

A-weighted single-event emission sound pressure level at work station LpA 1s,d 112.4 dBA

These values are determined and documented in accordance to EN12549.

### **VIBRATION**

Vibration characteristic value= 3.37 m/s<sup>2</sup>

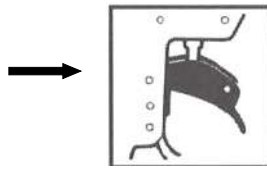
These values are determined and documented in accordance to ISO 8662-11.

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 and the workpiece support.

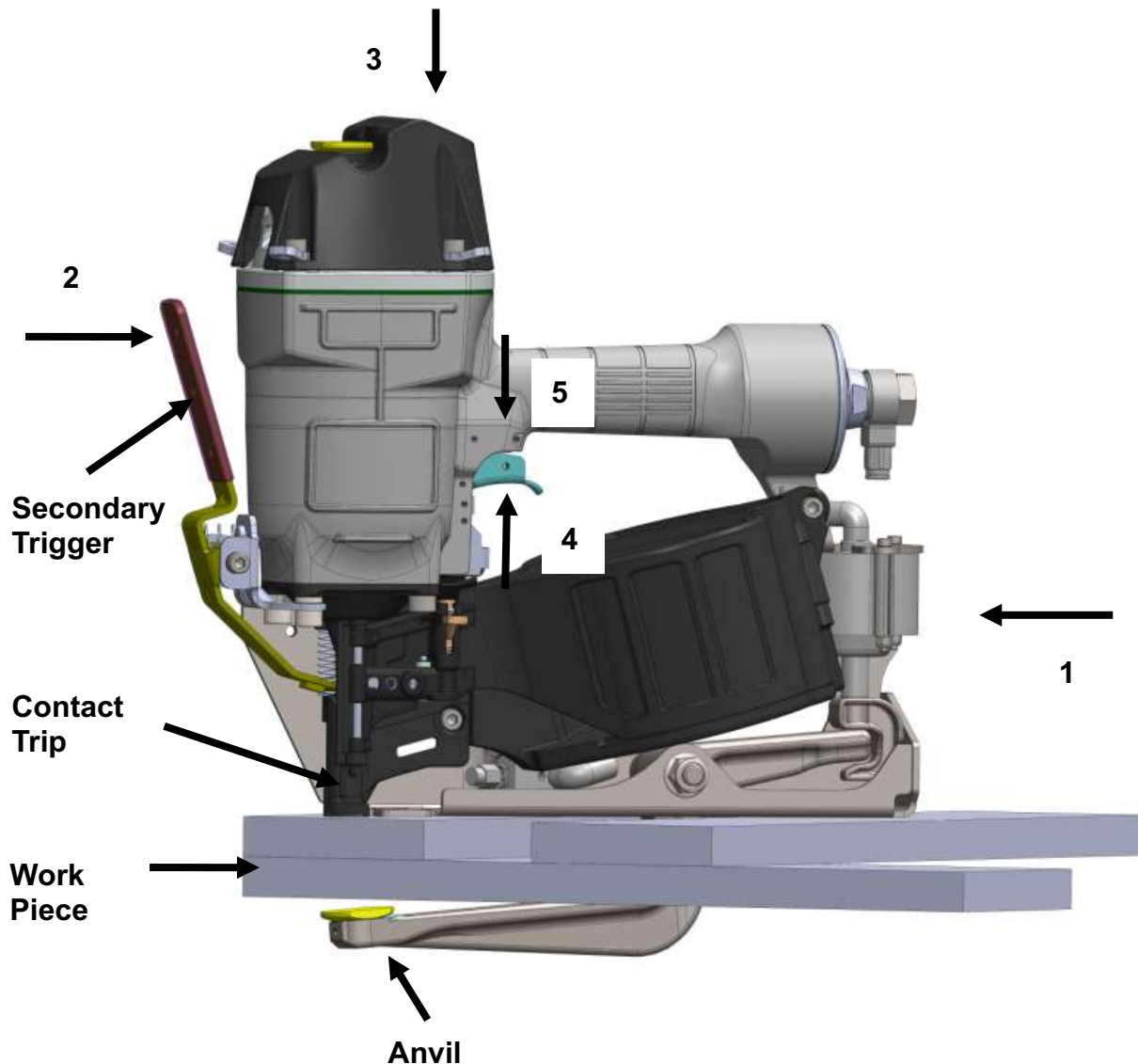
## OPERATION

Refer to Operation Instructions and warnings on pages before proceeding to use this tool.

IDENTIFIED BY BLACK  
TRIGGER



The common operating procedure on tools is for the operator to place Contact Trip to the Work Piece surface and depress Secondary Trigger, then pull the trigger to close Anvil and drive a fastener each time when trigger is pulled. This will allow fastener placement on many jobs, such as pallet repair.



1. Slide tool into deck boards as shown, placing in between the contact arm and anvil.
2. Depress secondary trigger to free contact arm
3. Press tool into the deck board
4. Pull trigger to actuate tool.
  - a. Anvil will clamp into the deck boards.
  - b. Tool will operate and clinch the nail
5. Release trigger.
6. For the next nailing, slide into place and repeat items #2 to #5.

## AIR SUPPLY AND CONNECTIONS



**DO NOT USE OXYGEN, COMBUSTIBLE GASES, OR BOTTLED GASES AS A POWER SOURCE FOR THIS TOOL AS TOOL MAY EXPLODE, POSSIBLY CAUSING INJURY.**

### **▲WARNING:**

**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.

### **▲WARNING:**

**HOSES:** Air hoses should have a minimum of 150 PSI (10.6 kg/cm<sup>2</sup>) working pressure rating or 150 percent of the maximum pressure that could be produced in the air system. 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 this tool. NEVER USE OXYGEN, COMBUSTIBLE GASES, OR BOTTLED GASES AS A POWER SOURCE FOR THIS TOOL AS TOOL MAY EXPLODE.

### **▲WARNING:**

**REGULATOR:** A pressure regulator with an operating pressure of 0 - 125 PSI. (0 - 8.79 kg/cm<sup>2</sup>) is required to control the operating pressure for safe operation of this tool. Do not connect this tool to air pressure which can potentially exceed 200 PSI. (14 kg/cm<sup>2</sup>) as tool may fracture or burst, possibly causing injury.

### **▲WARNING:**

**OPERATING PRESSURE:** Do not exceed recommended maximum operating pressure as tool wear will be greatly increased. The air supply must be capable of maintaining the operating pressure at the tool. Pressure drops in the air supply can reduce the tool's driving power. Refer to “TOOL SPECIFICATIONS” for setting the correct operating pressure for the tool.

### **▲WARNING:**

**FILTER:** Dirt and water in the air supply are major causes of wear in pneumatic tools. A filter will help to get the best performance and minimum wear from the tool. The filter must have adequate flow capacity for the specific installation. The filter has to be kept clean to be effective in providing clean compressed air to the tool. Consult the manufacturer's instructions on proper maintenance of your filter. A dirty and/or clogged filter will cause a pressure drop which will reduce the tool's performance.

## LUBRICATION

Frequent, but not excessive, lubrication is required for best performance. Air-tool oil added through the air line connection will lubricate the internal parts. Do not use detergent oil or additives as these lubricants will cause accelerated wear to the seals and bumpers in the tool, resulting in poor tool performance and frequent tool maintenance.

If no air line lubricator is used, add oil during use into the air fitting on the tool once or twice a day. Only a few drops of oil at a time is necessary. Too much oil will only collect inside the tool and will be noticeable in the exhaust cycle.

### COLD WEATHER OPERATION

For cold weather operation, near and below freezing, the moisture in the air line may freeze and prevent tool operation. We recommend the use of permanent antifreeze (ethylene glycol) as a cold weather lubricant.

### **CAUTION:**

**Do not store tools in a cold-weather environment to prevent frost or ice formation on the tools operating valves and mechanisms, which could cause tool failure. Test tool without fasteners prior to operations to ensure no malfunction on the tool due to ice formation.**

### **NOTE:**

**Some commercial air line drying liquids are harmful to O-Rings and seals – do not use these low temperature air dryers without checking compatibility.**



## FASTENER LOADING

### **WARNING:**



**EYE PROTECTION** which conforms to ANSI/ CE specifications and provides protection against flying particles both from the **FRONT** and **SIDE** should **ALWAYS** be worn by the operator and others in the work area when connecting to air supply, loading, operating or servicing this tool. Eye protection is required to guard against flying fasteners and debris, which could cause severe eye injury.

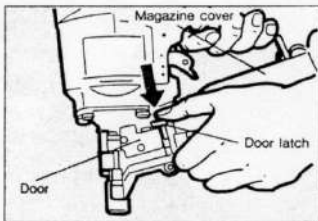
The employer and/or user must ensure that proper eye protection is worn. Eye protection equipment must conform to the requirements of the ANSI Z87.1 89/686/EEC, and provide both frontal and side protection. **NOTE:** Non-side shielded spectacles and face shields alone do not provide adequate protection.

### **WARNING:**

#### TO PREVENT ACCIDENTAL INJURIES:

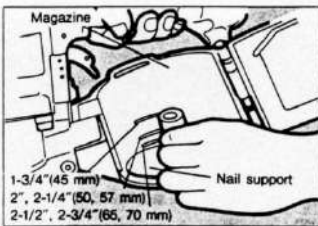
- Never place a hand or any other part of the body in nail discharge area of tool while the air supply is connected.
- Never point the tool at anyone else.
- Never engage in horseplay.
- Never pull the trigger unless nose is directed at the work.
- Always handle the tool with care.
- Do not pull the trigger or depress the trip mechanism while loading the tool.

#### LOADING THE TOOL:



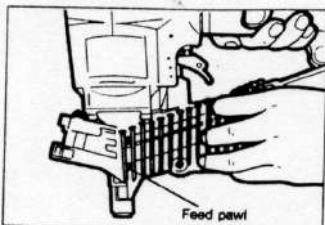
**Open the magazine:**

Pull down door latch and swing door open. Open the magazine.



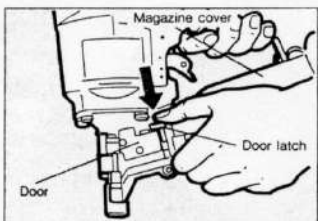
**Nail length adjustment:**

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.



**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.



**Swing Cover Closed  
Close the door:**

Check that latch engages. (If it does not engage, check that the nail heads are in the slot on the nose.)

## TOOL OPERATION

### **⚠WARNING:**



EYE PROTECTION which conforms to ANSI/ CE specifications and provides protection against flying particles both from the **FRONT** and **SIDE** should **ALWAYS** be worn by the operator and others in the work area when connecting to air supply, loading, operating or servicing this tool. Eye protection is required to guard against flying fasteners and debris, which could cause severe eye injury.

The employer and/or user must ensure that proper eye protection is worn. Eye protection equipment must conform to the requirements of the ANSI Z87.1 and 89/686/EEC, and provide both frontal and side protection. **NOTE:** Non-side shielded spectacles and face shields alone do not provide adequate protection.

### BEFORE HANDLING OR OPERATING THIS TOOL:

- **READ AND UNDERSTAND THE WARNINGS CONTAINED IN THIS MANUAL.**
- **REFER TO “TOOL SPECIFICATIONS” IN THIS MANUAL TO IDENTIFY THE OPERATING SYSTEM ON YOUR TOOL.**

## OPERATION

The common operating procedure on tools is for the operator to place Contact Trip to the Work Piece surface and depress Secondary Trigger, then pull the trigger to close Anvil and drive a fastener each time when trigger is pulled.

Release trigger and secondary trigger, so the tool can be shifted to another position. Repeat the above sequences to driver fasteners.

### **⚠WARNING:**

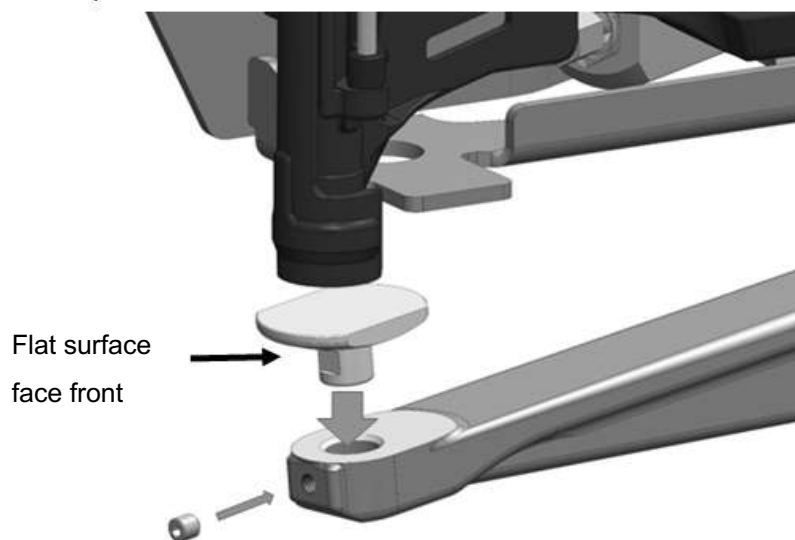
The operator must not hold the trigger on contact trip tools except during fastening operation, as serious injury could result if the trip accidentally contacts someone or something, causing the tool to cycle.

### **⚠WARNING:**

Keep hands and body away from the discharge area of the tool. A contact trip tool may bounce from the recoil of driving a fastener and an unwanted second fastener may be driven, possibly causing injury.

## REPLACE ANVIL

Please be advised that the Anvil is replaceable, please see the explanation below.



Add Loctite 243 or equivalent to bolt before assembly

## **TOOL OPERATION CHECK**

**CAUTION:** Remove all fasteners from tool before performing tool operation check.

- a. With finger off the trigger, press the contact trip against the work surface.  
**THE TOOL MUST NOT CYCLE.**
- b. With finger off the trigger, press the secondary trigger.  
**THE TOOL MUST NOT CYCLE.**
- c. Hold the tool off the work surface without depressing second trigger, and pull the trigger.  
**THE TOOL MUST NOT CYCLE.**
- d. Hold the tool on the work surface, depress secondary trigger, and pull the trigger.  
**THE TOOL MUST CYCLE.**

### **IN ADDITION TO THE OTHER WARNINGS CONTAINED IN THIS MANUAL OBSERVE THE FOLLOWING FOR SAFE OPERATION**

- Use this pneumatic tool only for the purpose for which it was designed like pallet, crating, sheathing, decking applications
- Never use this tool in a manner that could cause a fastener to be directed toward the user or others in the work area.
- Do not use the tool as a hammer.
- Always carry the tool by the handle. Never carry the tool by the air hose.
- Do not carry this tool with the trigger depress when not in use.
- Do not alter or modify this tool from the original design or function.
- Always be aware that misuse and improper handling of this tool can cause injury to yourself and others.
- Never clamp or tape the trigger or contact trip in an actuated position.
- Never leave a tool unattended with the air hose attached.
- Do not operate this tool if it does not contain a legible WARNING LABEL.
- Do not continue to use a tool that leaks air or does not function properly. Notify your distributor or representative if your tool continues to experience functional problems.

## **MAINTAINING THE PNEUMATIC TOOL**

### **⚠WARNING:**

When working on air tools, note the warnings in this manual and use extra care evaluating problem tools. Disconnect air supply and empty the magazine when inspecting or maintaining the tool.

### **REPLACEMENT PARTS:**

Use only genuine parts from the manufacturer or distributor. Do not use modified parts or parts which will not give equivalent performance to the original equipment.

Tighten all screw.

Keep contact arm moving smoothly.

### **ASSEMBLY PROCEDURE FOR SEALS:**

When repairing a tool, make sure the internal parts are clean and lubricated. Use Parker "O"-LUBE or equivalent on all "O"-rings. Coat each "O"-ring with "O"-LUBE before assembling. Use a small amount of oil on all moving surfaces and pivots. After reassembly add a few drops of Air Tool Lubricant through the air line fitting before testing.

### **AIR PRESSURE AND VOLUME:**

Air volume is as important as air pressure. The air volume supplied to the tool may be inadequate because of undersize fittings and hoses, or from the effects of dirt and water in the system. Restricted air flow will prevent the tool from receiving an adequate volume of air, even though the pressure reading is high. The results will be slow operation, misfeeds or reduced driving power. Before evaluating tool problems for these symptoms, trace the air supply from the tool to the supply source for restrictive connectors, swivel fittings, low points containing water and anything else that would prevent full volume flow of air to the tool.

## **DRIVER MAINTENANCE INSTRUCTIONS**

Worn driver causing poor quality or loss of power:

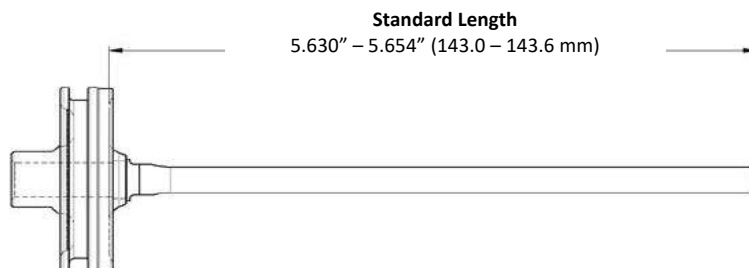
Wear on the driving tip will affect the nail drive, giving symptoms of bent and incompletely driven nails, and damaged nail heads.

The driver length may be adjusted to allow the driving tip to be redressed to compensate for wear. Heat and precise measurement are required. Contact a qualified service technician for this adjustment.

The length setting for a new driver is shown below. Measurement is from the bottom face of the main piston.

Note that the measurement from the top of the piston gives the maximum amount the driver may be adjusted to allow redressing. Always extend the driver the minimum required to allow redressing to restore the driving end; several redressings will be possible before this maximum depth is reached.

When using optional flangeless driver, see adjustment below. Be sure to use proper preparation and installation.



## **TROUBLESHOOTING / REPAIRS**

The troubleshooting and / or repairs shall be carried out only by the authorized dealer / distributor **or** by other pneumatic tool specialists.