

Model 645

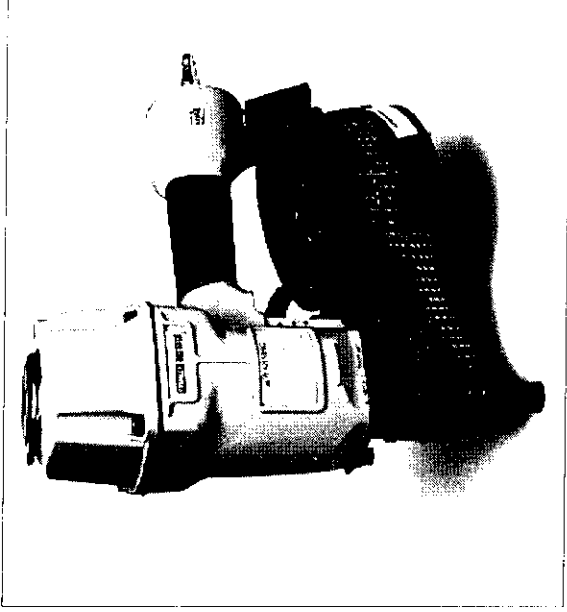
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STAMPED

BOSTITCH®

N80CB

COIL-FED PNEUMATIC NAILERS
CLAVADORAS NEUMÁTICAS ALIMENTADAS POR ROLLO
CLOUEURS PNEUMATIQUES À ENROULEMENT



OPERATION and MAINTENANCE MANUAL
MANUAL DE OPERACIÓN y DE MANTENIMIENTO
MANUEL D'INSTRUCTIONS et D'ENTRETIEN

⚠ WARNING:

BEFORE OPERATING THIS TOOL, ALL OPERATORS SHOULD STUDY THIS MANUAL, TO UNDERSTAND AND FOLLOW THE SAFETY WARNINGS AND INSTRUCTIONS. KEEP THESE INSTRUCTIONS WITH THE TOOL FOR FUTURE REFERENCE. IF YOU HAVE ANY QUESTIONS, CONTACT YOUR BOSTITCH REPRESENTATIVE OR DISTRIBUTOR.

⚠ ADVERTENCIA:

ANTES DE OPERAR ESTA HERRAMIENTA, TODOS LOS OPERADORES DEBERÁN ESTUDIAR ESTE MANUAL PARA PODER COMPRENDER Y SEGUIR LAS ADVERTENCIAS SOBRE SEGURIDAD Y LAS INSTRUCCIONES. MANTENGA ESTAS INSTRUCCIONES CON LA HERRAMIENTA PARA FUTURA REFERENCIA. SI TIENE ALGUNA DUDA, COMUNIQUESE CON SU REPRESENTANTE DE BOSTITCH O CON SU DISTRIBUIDOR.

LIRE ATTENTIVEMENT LE PRÉSENT MANUEL AVANT D'UTILISER L'APPAREIL. PRÊTER UNE ATTENTION TOUTE PARTICULIÈRE AUX CONSIGNES DE SÉCURITÉ ET AUX AVERTISSEMENTS. GARDER CE MANUEL AVEC L'OUTIL POUR FUTURE RÉFÉRENCE. SI VOUS AVEZ DES QUESTIONS, CONTACTEZ VOTRE REPRÉSENTANT OU VOTRE CONCESSIONNAIRE BOSTITCH.

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BOSTITCH®

Stanley Fastening Systems

INTRODUCTION

The Bostitch N80CB is a precision-built tool; 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, for best performance the manufacturer's instructions must be followed. 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 manual kept for reference. **NOTE:** Additional safety measures may be required because of your particular application of the tool. Contact your Bostitch representative or distributor with any questions concerning the tool and its use. Bostitch, Inc., East Greenwich, Rhode Island 02818.

INDEX

Warranty	2
Safety Instructions	3
Tool Specifications: Air Consumption & Operating Pressure	4
Air Supply: Fittings, Hoses, Filters, Regulators	5
Lubrication and Cold Weather Operation	5
Loading the Tool	6
Adjusting for Nail Length	6
Operating the Tool	7 & 8
Basic Tool Function Diagram	9
Maintaining the Pneumatic Tool	9
Trouble Shooting	10
Driver Maintenance/Adjusting Exhaust	11
Accessories	11

NOTE:

Bostitch tools have been engineered to provide excellent customer satisfaction and are designed to achieve maximum performance when used with precision Bostitch fasteners engineered to the same exacting standards. **Bostitch cannot assume responsibility for product performance if our tools are used with fasteners or accessories not meeting the specific requirements established for genuine Bostitch nails, staples and accessories.**



LIMITED WARRANTY

Bostitch, Inc., warrants to the original retail purchaser that this product is free from defects in material and workmanship, and agrees to repair or replace, at Bostitch's option, any defective product within 1 year from the date of purchase. This warranty is not transferable. It only covers damage resulting from defects in material or workmanship, and it does not cover conditions or malfunctions resulting from normal wear, neglect, abuse, accident or repairs attempted or made by other than our regional repair center or authorized warranty service center. Driver blades, bumpers and o-rings are considered normally wearing parts.

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

This warranty is limited to sales in the United States and Canada. Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

To obtain warranty service, return the product at your expense together with proof of purchase to a Bostitch Regional or authorized warranty repair center. You may call us at 1-800-556-6696 for the location of authorized warranty service centers in your area.

SAFETY INSTRUCTIONS

⚠WARNING:

EYE PROTECTION which conforms to ANSI 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 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 American National Standards Institute, ANSI Z87.1-1989 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 1986 is used.

AIR SUPPLY AND CONNECTIONS

⚠WARNING:

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

⚠WARNING:

Do not use supply sources which can potentially exceed 200 P.S.I.G. 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.

⚠WARNING:

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

⚠WARNING:

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.

LOADING TOOL

⚠WARNING:

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.

OPERATION

⚠WARNING:

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.

⚠WARNING:

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 contacted someone or something, causing the tool to cycle.

⚠WARNING:

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.

⚠WARNING:

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.

⚠WARNING:

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.

⚠WARNING:

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.

MAINTAINING THE TOOL

⚠WARNING:

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

N80CB TOOL SPECIFICATIONS

All screws and nuts are metric.

MODEL	TOOL ACTUATION	LENGTH	HEIGHT	WIDTH	WEIGHT
N80CB-1	Contact Trip	12" x 1/16" (306mm)	13-1/4" (336mm)	5-9/16" (140mm)	8lb. 8oz. (3.86kgs.)
N80CB-2	Sequential Trip	12" x 1/16" (306mm)	13-1/4" (336mm)	5-9/16" (140mm)	8lb. 8oz. (3.86kgs.)

TOOL AIR FITTING:

This tool uses a 1/4 N.P.T. male plug. The inside diameter should be .275" (7mm) or larger. The fitting must be capable of discharging tool air pressure when disconnected from the air supply. The connector socket on the air hose should be .275" (7mm) inside diameter or larger.

OPERATING PRESSURE:

70 to 100 p.s.i.g. (4.9 to 7.0 kg/cm²). Select the operating pressure within this range for best fastener performance.

DO NOT EXCEED THIS RECOMMENDED OPERATING PRESSURE.

AIR CONSUMPTION:

The N80CB requires 7.2 cubic feet per minute of free air to operate at the rate of 100 nails per minute, at 80 p.s.i.g. (5.6 kg/cm²). 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 7.8 c.f.m. which is required for running at 100 nails per minute.

OPERATION

BOSTITCH OFFERS TWO TYPES OF OPERATION FOR THIS SERIES TOOL

CONTACT TRIP

The common operating procedure on "Contact Trip" tools is for the operator to contact the work to actuate the trip mechanism while keeping the trigger pulled, thus driving a fastener each time the work is contacted. This will allow rapid fastener placement on many jobs, such as sheathing, decking and pallet assembly.

All pneumatic tools are subject to recoil when driving fasteners. The tool may bounce, releasing the trip, and if unintentionally allowed to recontact the work surface with the trigger still actuated (finger still holding trigger pulled) an unwanted second fastener will be driven.

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.

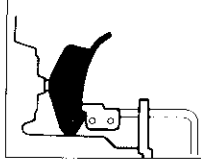
The Sequential Trip allows exact fastener location without the possibility of driving a second fastener on recoil, as described under "Contact Trip".

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.

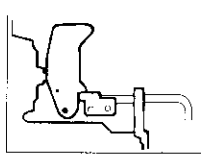
MODEL IDENTIFICATION:

Refer to Operation Instructions on page 4 before proceeding to use this tool.

CONTACT TRIP
Identified by:
BLACK TRIGGER



SEQUENTIAL TRIP
Identified by:
GRAY TRIGGER



AIR SUPPLY AND CONNECTIONS

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

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:

Air hoses should have a minimum of 150 p.s.i. (10.6 kg/cm²) 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.**

REGULATOR:

A pressure regulator with an operating pressure of 0 - 125 p.s.i. (0 - 8.79 KG/CM²) 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 p.s.i. (14 KG/CM²) as tool may fracture or burst, possibly causing injury.

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.

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 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. Oil added through the air line connection will lubricate the internal parts. Use BOSTITCH Air Tool Lubricant, Mobil Velocite #10, or equivalent. 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 airline 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 BOSTITCH WINTER FORMULA air tool lubricant or 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 that could cause tool failure.

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.

LOADING THE N80CB SERIES COIL NAILER

WARNING:



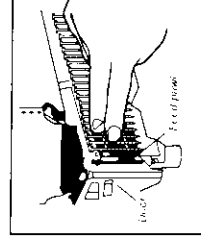
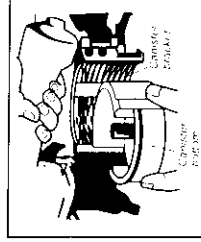
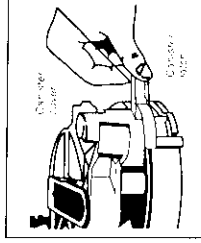
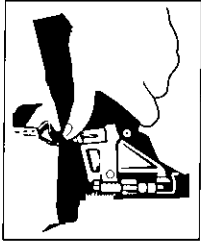
EYE PROTECTION which conforms to ANSI specifications and provides protection against flying particles both from the **FRONT** and **SIDE** should **ALWAYS** be worn by the operator and others in the work area when loading, operating or servicing this tool. Eye protection is required to guard against 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 American National Standards Institute, ANSI Z87.1-1989 and provide both frontal and side protection.
NOTE: Non-side shielded spectacles and face shields alone do not provide adequate protection.

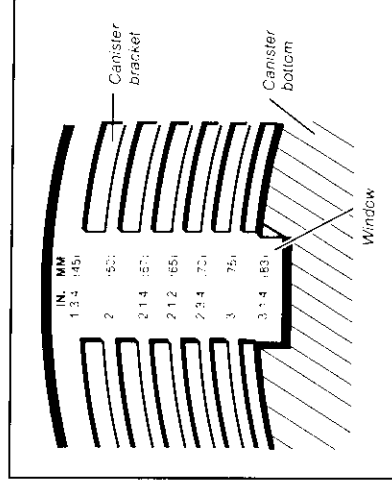
WARNING:

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 toward the work.
- Always handle the tool with care.
- Do not pull the trigger or depress the trip mechanism while loading the tool.



1. **Open the magazine:** pull down latch and swing door open. Swing magazine cover open.
2. **Check adjustment:** the nailer must be set for the length of nail to be used. Nails will not feed smoothly if the magazine is not correctly adjusted.
The N80CB accepts from 1-1/2" to 3-1/4" nails. To change setting:
 - a) Release the canister latch on the rear of the canister.
 - b) Pull out canister bottom by swinging right to left until tabs disengage.
 - c) Inside the canister bracket are settings in inches and millimeters. The canister is adjusted correctly when the length of the nail being used is shown in the window of the canister bottom.



3. Load the coil of nails:

Place a coil of nails over the post in the canister. 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.

4. Swing cover closed.

5. Close the door.

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

Note: The canister is adjusted correctly for 1-1/2" and 1-3/4" nails when "1-3/4 (45)" appears in the window of the canister bottom.

NOTE: Use only nails recommended by Bostitch for use in Bostitch N80CB Series nailers or nails which meet Bostitch specifications.

TOOL OPERATION

⚠WARNING:



EYE PROTECTION which conforms to ANSI 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 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 American National Standards Institute, ANSI Z87.1-1989 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:

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

There are three available systems on BOSTITCH pneumatic tools. They are:

1. **TRIGGER OPERATION**
2. **CONTACT TRIP OPERATION**
3. **SEQUENTIAL TRIP OPERATION**

OPERATION

1. TRIGGER OPERATION

A **TRIGGER OPERATED** tool requires a single action to drive a fastener. Each time the trigger is pulled the tool will drive a fastener. The trigger operated model is intended for use only when a contact trip or sequential trip cannot be used due to the requirements of the application.

2. CONTACT TRIP OPERATION

The **CONTACT TRIP MODEL** tool contains a contact trip that operates in conjunction with the trigger to drive a fastener. There are two methods of operation to drive fasteners with a contact trip tool.

A. SINGLE FASTENER PLACEMENT: To operate the tool in this manner, first position the contact trip on the work surface, **WITHOUT PULLING THE TRIGGER**. Depress the contact trip until the nose touches the work surface and then pull the trigger to drive a fastener. Do not press the tool against the work with extra force. Instead, allow the tool to recoil off the work surface to avoid a second unwanted fastener. Remove your finger from the trigger after each operation.

B. RAPID FASTENER OPERATION: To operate the tool in this manner, hold the tool with the contact trip pointing towards but not touching the work surface. Pull the trigger and then tap the contact trip against the work surface using a bouncing motion. Each depression of the contact trip will cause a fastener to be driven.

⚠WARNING:

The operator must not hold the trigger pulled on contact trip tools except during fastening operation, as serious injury could result if the trip accidentally contacted 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.

3. SEQUENTIAL TRIP OPERATION:

The **SEQUENTIAL TRIP MODEL** contains a contact trip that operates in conjunction with the trigger to drive a fastener. To operate a sequential trip tool, first position the contact trip on the work surface **WITHOUT PULLING THE TRIGGER**. Depress the contact trip and then pull the trigger to drive a fastener. As long as the contact trip is contacting the work and is held depressed, the tool will drive a fastener each time the trigger is depressed. If the contact trip is allowed to leave the work surface, the sequence described above must be repeated to drive another fastener.

TOOL OPERATION CHECK:

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

1. TRIGGER OPERATED TOOL:

- A. With finger off the trigger, hold the tool with a firm grip on the handle.
- B. Place the nose of the tool against the work surface.
- C. Pull the trigger to drive. Release the trigger and cycle is complete.

CAUTION: THE TOOL WILL CYCLE EACH TIME THE TRIGGER IS PULLED!

2. CONTACT TRIP OPERATION:

- A. With finger off the trigger, press the contact trip against the work surface.
THE TOOL MUST NOT CYCLE.
 - B. Hold the tool off the work surface, and pull the trigger.
THE TOOL MUST NOT CYCLE.
 - C. With the tool off the work surface, pull the trigger.
Press the contact trip against the work surface.
THE TOOL MUST CYCLE.
 - D. Without touching the trigger, press the contact trip against the work surface,
then pull the trigger.
THE TOOL MUST CYCLE.
- ### **3. SEQUENTIAL TRIP OPERATION:**
- A. Press the contact trip against the work surface, without touching the trigger.
THE TOOL MUST NOT CYCLE.
 - B. Hold the tool off the work surface and pull the trigger.
THE TOOL MUST NOT CYCLE.
Release the trigger. The trigger must return to the trigger stop on the frame.
 - C. Pull the trigger and press the contact trip against the work surface.
THE TOOL MUST NOT CYCLE.
 - D. With finger off the trigger, press the contact trip against the work surface. Pull the trigger.
THE TOOL MUST CYCLE.

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

- Use the BOSTITCH pneumatic tool only for the purpose for which it was designed.
- 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 alter or modify this tool from the original design or function without approval from BOSTITCH, INC.
- 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 nearest Bostitch representative if your tool continues to experience functional problems.

