BOSTITCH®

RN46

COIL-FED PNEUMATIC ROOFING NAILER
CLAVADORA NEUMÁTICA ALIMENTADA POR ROLLO PARA TECHADO
CLOUEUR PNEUMATIQUE À ENROULEMENT POUR TOITURE

BOSTITCH 7 YEAR LIMITED WARRANTY
BOSTITCH 7 AÑOS GARANTÍA LIMITADA
BOSTITCH 7 ANS GARANTIE LIMITÉE

OPERATION and MAINTENANCE MANUAL
MANUAL DE OPERACIÓN Y DE MANTENIMIENTO
MANUEL D'INSTRUCTIONS ET D'ENTRETIEN

⚠WARNING: **⚠ ADVERTENCIA:** **⚠ ATTENTION:**

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.

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, COMUNÍQUESE 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 FUTUR RÉFÉRENCE. SI VOUS AVEZ DES QUESTIONS, CONTACTEZ VOTRE REPRÉSENTANT OU VOTRE CONCESSIONNAIRE BOSTITCH.

BOSTITCH®
BOSTITCH FASTENING SYSTEMS

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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 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 American National Standards Institute, ANSI Z87.1 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 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.

⚠WARNING: This nailer produces SPARKS during operation. NEVER use the nailer near flammable substances, gases or vapors including lacquer, paint, benzine, thinner, gasoline, adhesives, mastics, glues or any other material that is -- or the vapors, fumes or byproducts of which are -- flammable, combustible or explosive. Using the nailer in any such environment could cause an EXPLOSION resulting in personal injury or death to user and bystanders.

MAINTAINING THE TOOL

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

TOOL SPECIFICATIONS

All screws and nuts are metric

MODEL	TOOL ACTUATION	LENGTH	HEIGHT	WIDTH	WEIGHT
RN46-1	Contact Trip	10-1/2" (266.7mm)	10-5/8" (269.9mm)	4-5/8" (117.5mm)	5.5 lb (2.5 kg)
RN46-2	Sequential Trip	10-1/2" (266.7mm)	10-5/8" (269.9mm)	4-5/8" (117.5mm)	5.5 lb (2.5 kg)

FASTENER SPECIFICATIONS:

This tool uses coil roofing nails in lengths of 3/4" to 1-3/4" (19 - 45mm) with .120" (3mm) shank diameter.

TOOL AIR FITTING:

This tool uses a free-flow connector plug, 1/4 N.P.T. The inside diameter should be .200" (5mm) or larger. The fitting must be capable of discharging tool air pressure when disconnected from the air supply.

OPERATING PRESSURE:

70 to 120 p.s.i.g. (4.8 to 8.3). Select the operating pressure within this range for best fastener performance. **DO NOT EXCEED THE RECOMMENDED OPERATING PRESSURE.**

AIR CONSUMPTION:

The RN46 requires 3.9 cubic feet per minute (.11 cubic meters) of free air to operate at the rate of 100 nails per minute, at 80 p.s.i. (5.6 kg/cm^2). 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's c.f.m. which is required to operate the tool 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 in many industrial applications. 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

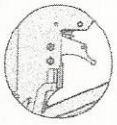
The Sequential Trip requires the operator to hold the tool against the work before pulling the trigger. This makes accurate fastener placement easier, for instance on finish applications.
The Sequential Trip allows exact fastener location without the possibility of driving a second fastener on recoil, 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 8 before proceeding to use this tool.

CONTACT TRIP
Identified by:
BLACK TRIGGER

SEQUENTIAL TRIP
Identified by:
GRAY TRIGGER



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.

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, Renolin HPL 46, 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 RN46

⚠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.

⚠WARNING: 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 (R1998) and provide both frontal and side protection. NOTE: Non-side shielded spectacles and face shields alone do not provide adequate protection.

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.

1. **Open the magazine:**
   Pull down door latch and swing door/magazine cover downward. Fig.A

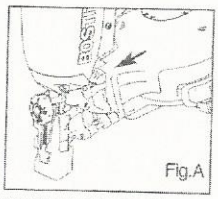


Fig.A

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 magazine contains an adjustable nail platform on which the nail coil rests.
   The nail platform can be moved up and down to two nail settings.
   To change setting pull up on the post and twist to the correct step. Fig.B
   1-1/2" - 1-3/4" (38-45mm) nails - use bottom step
   3/4", 7/8", 1",1-1/4" (19, 22, 25, 32mm) nails - use top step.

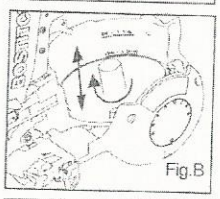


Fig.B

3. **Load the coil of nails:**
   Place the coil of nails over the post in the magazine. Uncoil enough nails to reach the feed pawl. Place the first nail in front of the front tooth on the feed pawl, in the driver channel. The nail heads must be in the slot in the nose. Fig.C

   NOTE: **Use only nails recommended by Bostitch for RN46 series nailers or nails which meet Bostitch specifications.**

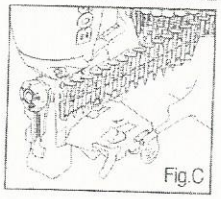
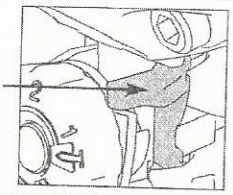


Fig.C

4. **Close the Door/Magazine Cover:**
   Swing the door/magazine cover closed. Check that the latch engages when released.

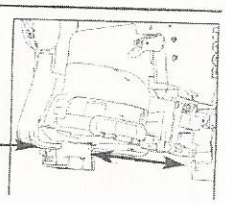
Lock-Out Mechanism

This tool is equipped with a Lock-Out mechanism.
The tool may not actuate when the Lock-Out is engaged, as shown



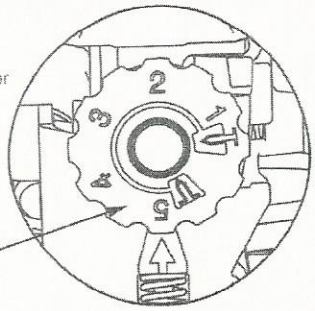
Shingle Gauge

⚠WARNING: **Disconnect the air supply before making adjustments.**
This gauge can be used to control shingle spacing. To adjust, push the gauge lever and slide the gauge to desired shingle exposure, as shown.



DIAL-A-DEPTH™ FASTENER CONTROL ADJUSTMENT

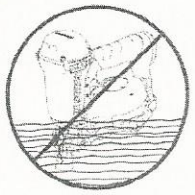
The DIAL-A-DEPTH™ Fastener control adjustment feature provides close control of the fastener drive depth: from flush with the work surface to shallow or deep countersink.
First set the air pressure for consistent drive in the specific work as described on page 4, then use the DIAL-A-DEPTH™ fastener control knob to give the desired depth of drive.



CLEANING THE ROOFING NAILER

⚠WARNING: Do not use gasoline or similar highly flammable liquids to clean the nailer. Vapor could be ignited by a spark, causing an explosion.

Tar and dirt may build up on the nose and trip lever. This can prevent correct operation.
Remove any buildup with kerosene, #2 fuel oil or diesel fuel.
Do not dunk the nailer into these solvents beyond the height of the nail heads, to avoid getting the solvent into the drive cylinder.
Dry off the nailer before use. Any oil film left after cleanup will accelerate the tar buildup, and the nailer will require more frequent re-cleaning.



NOTE: Solvents sprayed on the nose to clean and free up the trip may have the opposite effect! The solvent may soften the tar on the shingles and cause tar buildup to be accelerated. Dry operation is better, as noted above.

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.
- 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.

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 (R1998) 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. CONTACT TRIP OPERATION 2. SEQUENTIAL TRIP OPERATION 3.TRIGGER OPERATION

OPERATION

1. 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.

2. 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.

3. TRIGGER OPERATION:

The TRIGGER OPERATED tool requires a single action to drive a fastener. Each time the trigger is pulled the tool will drive a fastener. This model does not have a contact trip and is intended for use only where a contact trip cannot be used to satisfy the requirements of the application.