

## INSTRUCTIONS

### 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 psig 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.

# INSTRUCTIONS CONTINUED

## 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, benzene, thinner, gasoline, adhesives, mastics, glues or any other material that is -- or the vapors, fumes or by products 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.



**WARNING!** Never use rafter hook to hang tool from body, clothing or belt.

## 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          |
|--------|---|---|--------------|---|-----------------|
| N89C-1 | Contact Trip<br>(with sequential trip option) | 12 <sup>1</sup> / <sub>4</sub> " (311 mm) | 14" (355 mm) | 5 <sup>1</sup> / <sub>4</sub> " (133.4mm) | 8.2 lb (3.7 kg) |

## FASTENER SPECIFICATIONS

The N89C tools uses wire collated coil nails in lengths of 2" to 3<sup>1</sup>/<sub>2</sub>" (50 - 90mm) with shank diameters of .099" - .131" (2.5 - 3.3mm)

## TOOL AIR FITTING

This tool uses a free-flow connector plug, 1/4" N.P.T. The minimum inside diameter should be .275" (7mm). The fitting must be capable of discharging tool air pressure when disconnected from the air supply.

## OPERATING PRESSURE

70 to 120 psig (4.8 to 8.3 kg/cm<sup>2</sup>). Select the operating pressure within this range for best fastener performance.



**WARNING!** Do not exceed the recommended operating pressure.

## AIR CONSUMPTION

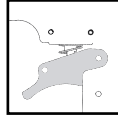
The N89C requires 8.23 cubic feet per minute (233 liters per minute) of free air to operate at the rate of 100 nails per minute, at 80 p.s.i. (5.6 kg/cm<sup>2</sup>). Take the actual rate at which the tool will be run to determine the amount of air required. For instance, if your fastener usage averages 50 nails per minute, you need 50% of the 8.23 c.f.m. (233 liters per minute) which is required to operate the tool at 100 nails per minute.

## MODES OF OPERATION

BOSTITCH OFFERS TWO MODES OF OPERATION FOR THIS SERIES TOOL.

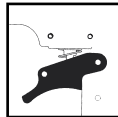
### SEQUENTIAL TRIP (GRAY TRIGGER)

The Sequential Trip requires the operator to hold the tool against the work surface before pulling the trigger. This makes accurate fastener placement easier on framing, toe nailing and crating applications. The Sequential Trip allows exact fastener placement 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 second fastener if the tool is contacted against the work – or anything else – while the operator is holding the trigger pulled.



### CONTACT TRIP (BLACK TRIGGER)

The common operating procedure on Contact Trip tools is for the operator to contact the work surface 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, re-contact the work surface with the trigger still actuated (finger still holding trigger pulled). An unwanted second fastener will be driven.



## MODEL IDENTIFICATION

Refer to Operation Instructions on page 5 before proceeding to use this tool.

## 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 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.

## 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.

## 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 (included), 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 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.

# INSTRUCTIONS CONTINUED

## LUBRICATION CONTINUED

### 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 (included) or permanent antifreeze (ethylene glycol) as a cold weather lubricant.



**CAUTION:** Do not store tools in a cold weather environment in order to prevent frost or ice formation on the tool's 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



**CAUTION:** 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.

### 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 canister:** Pull down door latch and swing door/canister cover outward. (See Figure 1)

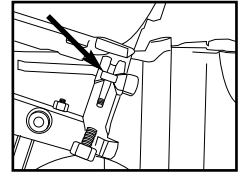


Figure 1

2. **Check Adjustment:** The nailer must be set for the length of nail to be used. Nails will not feed smoothly if the canister is not correctly adjusted. The canister contains an adjustable nail platform on which the nail coil rests. The nail platform can be moved up and down to four nail settings. To change setting pull up on the post and twist to the correct step. (See Figure 2)

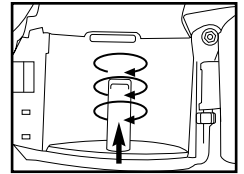


Figure 2

### PLATFORM SETTINGS

- 1st Step: 2" – 2½" (50 - 65mm) nails
- 2nd Step: 2¾" – 3" (70 - 75mm) nails
- 3rd Step: 3¼" – 3½" (80 - 90mm) nails

3. **Load the coil of nails:** Place the coil of nails over the post in the canister. 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. (See Figure 3)

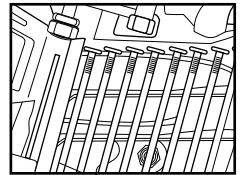


Figure 3



**NOTE:** Use only nails recommended by BOSTITCH for N89C series nailers or nails which meet BOSTITCH specifications.


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.)

### FASTENER DEPTH CONTROL ADJUSTMENT

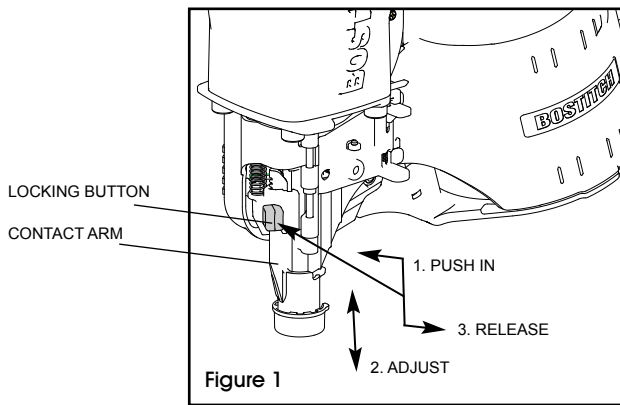
The Fastener Depth Control Adjustment feature on this tool provides control of the nail drive depth from flush with or just above the work surface to shallow or deep countersink.

## FASTENER DEPTH CONTROL ADJUSTMENT CONTINUED

### TO ADJUST THE FASTENER DEPTH CONTROL

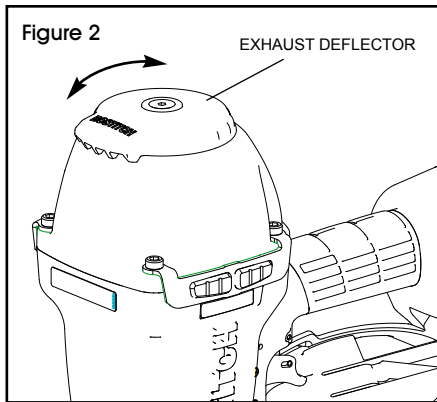
 **WARNING!** Disconnect tool from air supply before attempting any parts disassembly and before changing the work contacting element adjustment.

1. Push in on locking button.
2. Adjust contact arm up to increase depth of drive or down to decrease it.
3. Release locking button. (See Figure 1)




## DIRECTIONAL EXHAUST DEFLECTOR

The adjustable exhaust deflector can be rotated into any desired position by hand without the use of any tools. (See Figure 2)




## 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

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.

### 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 two available operation modes on these BOSTITCH pneumatic tools. They are:

1. SEQUENTIAL TRIP OPERATION
2. CONTACT TRIP OPERATION

## OPERATION

BOSTITCH offers two types of triggers for pneumatic tools: Sequential Trip (gray trigger) and Contact Trip (black trigger). Each trigger has specific advantages. You should evaluate your particular construction project to determine which trigger is best.

Your tool was shipped from the factory in the Sequential Trip (gray trigger) configuration. It can easily be converted to the Contact Trip (black trigger) mode of operation.

### 1. SEQUENTIAL TRIP OPERATION (GRAY TRIGGER)

The Sequential Trip (gray trigger) gets its name from the "sequence" required to drive a fastener. To drive a fastener, the operator must first depress the "trip" FULLY against the work surface and then pull the trigger. To drive a second nail, the operator must lift the tool from the work surface, release the trigger and then repeat the above sequence.

- a. The Sequential Trip (gray trigger) offers a positive safety advantage since it will not accidentally drive a fastener if the tool is bumped against any surface or anybody while the operator is holding the tool with the trigger pulled.


## TOOL OPERATION CONTINUED

- b. The Sequential Trip (gray trigger) allows "place nailing" without the possibility of driving a second, unwanted fastener on recoil as described below under "Contact Trip".


## 2. CONTACT TRIP (CONVENTIONAL) OPERATION (BLACK TRIGGER)


Your new BOSTITCH tool can be configured for use in Contact Trip mode. To drive a nail, the "trip" and the trigger must both be depressed. In Contact Trip tools, the trigger may be depressed and held, and each "contact" between the trip and the work surface will drive a nail.


- a. **SINGLE FASTENER PLACEMENT (Place Nailing)** – First position the "trip" FULLY on the work surface WITHOUT PULLING THE TRIGGER. Depress the "trip" FULLY until the nose of the tool touches the work surface and then pull the trigger to drive a nail. Do not press the tool against the work surface with extra force. Instead, allow the tool to recoil off the work surface to avoid a second unwanted fastener.

 **NOTE:** Remove your finger from the trigger after each operation.

- b. **RAPID FIRE OPERATION ("Bump" Nailing)** – First, hold the tool with the "trip" pointing towards but not touching the work surface. Pull the trigger and then tap or "bump" the trip against the work surface using a bouncing motion. Each depression of the "trip" will cause a nail to be driven.

 **WARNING!** The Contact Trip (black) will not prevent a nail from being accidentally driven if the trigger is depressed and the "trip" is bumped against any object or person. Never hold or carry the tool with your finger on the trigger. Only depress and hold trigger when you intend to rapidly drive multiple nails and the tool is pointed at the work surface.

 **WARNING!** Never use contact trigger (black trigger) with metal connector attachment. Only use sequential trigger (grey trigger) with metal connector attachment. Refer to trigger conversion instruction included in the kit.

 **WARNING!** When using conventional Contact Trip for Place Nailing, the tool may bounce due to recoil and if the tool is allowed to re-contact the work surface while you are holding the trigger pulled, a second unwanted nail will be driven. You should allow the tool to recoil far

enough to release the trip and avoid a second cycle. Don't push the tool down extra hard; let the tool do the work.



**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.



**WARNING!** Never use rafter hook to hang tool from body, clothing or belt.

## TOOL OPERATION CHECK



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

### 1. 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.**

### 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.**

# INSTRUCTIONS CONTINUED

## TOOL OPERATION CHECK CONTINUED

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. Contact ULINE Customer Service at 1-800-295-5510 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.

### REPLACEMENT PARTS

BOSTITCH replacement parts are recommended. Do not use modified parts or parts which will not give equivalent performance to the original equipment.

### 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 BOSTITCH Air Tool Lubricant through the air line fitting before testing.

### AIR SUPPLY 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.

# TROUBLESHOOTING

| OPERATING ISSUE              | CAUSE  | CORRECTION  |
|------------------------------|--|---|
| Trigger valve stem leaks air | O-ring cut or cracked<br>O-ring/seals cut or cracked                           | Replace O-ring<br>Replace trigger valve assembly                  |
| Frame/nose leaks air         | Loose nose screws<br>O-ring or gasket is cut or cracked<br>Bumper cracked/worn | Tighten and recheck<br>Replace O-ring or gasket<br>Replace bumper |
| Frame/cap leaks air          | Damaged gasket or seal<br>Cracked/worn head valve bumper<br>Loose cap screws   | Replace gasket or seal<br>Replace bumper<br>Tighten and recheck   |

## TROUBLESHOOTING CONTINUED

| OPERATING ISSUE                          | CAUSE   | CORRECTION  |
|--|---|---|
| Failure to cycle                         | Air supply restriction<br>Tool dry, lack of lubrication<br>Worn head valve O-rings<br>Broken cylinder cap spring  | Check air supply equipment<br>Use BOSTITCH Air Tool Lubricant<br>Replace O-rings<br>Replace cylinder cap spring   |
| Lack of power; slow to cycle             | Tool dry, lacks lubrication<br>Broken cylinder cap spring<br>O-rings/seals cut or cracked<br>Exhaust blocked<br>Trigger assembly worn/leaks<br>Dirt/tar buildup on driver<br>Cylinder sleeve not seated correctly on bottom bumper<br>Head valve dry<br>Air pressure too low  | Use BOSTITCH Air Tool Lubricant<br>Replace cap spring<br>Replace O-rings/seals<br>Check bumper, head valve spring, muffler<br>Replace trigger assembly<br>Disassemble nose/driver to clean<br>Disassemble to correct<br>Disassemble/lubricate<br>Check air supply equipment   |
| Skipping fasteners;<br>intermittent feed | Worn bumper<br>Tar/dirt in driver channel<br>Air restriction/inadequate air flow through quick disconnect socket and plug<br>Worn piston O-ring<br>Tool dry, lacks lubrication<br>Damaged feed piston spring<br>Low air pressure<br>Loose canister nose screws<br>Fasteners too short for tool<br>Bent fasteners<br>Wrong size fasteners<br>Leaking head cap gasket<br>Trigger valve O-ring cut/worn<br>Broken/chipped driver<br>Dry/dirty magazine | Replace bumper<br>Disassemble and clean nose and driver<br>Replace quick disconnect fittings<br>Replace O-ring, check driver<br>Use BOSTITCH Air Tool Lubricant<br>Replace spring<br>Check air supply system to tool<br>Tighten all screws<br>Use only recommended fasteners<br>Discontinue using these fasteners<br>Use only recommended fasteners<br>Tighten screws/replace gasket<br>Replace O-ring<br>Replace driver (check piston O-ring)<br>Clean/lubricate use BOSTITCH Air Tool Lubricant |
| Fasteners jam in tool                    | Driver channel worn<br>Wrong size fasteners<br>Bent fasteners<br>Loose canister/nose screws<br>Broken/chipped driver  | Replace nose/check door<br>Use only recommended fasteners<br>Discontinue using these fasteners<br>Tighten all screws<br>Replace driver  |



## TROUBLESHOOTING CONTINUED

### COIL NAILERS

| OPERATING ISSUE                          | CAUSE  | CORRECTION  |
|--|--|---|
| Skipping fasteners;<br>intermittent feed | Feed piston dry  | Add BOSTITCH Air Tool Lubricant in hole in feed piston cover    |
|  | Feed piston O-rings cracked/worn                         | Replace O-rings/check bumper and spring. Lubricate assembly     |
|  | Check pawl binding                                       | Inspect pawl and spring on door<br>Must work freely             |
|  | Canister bottom not set correctly                        | Set canister bottom for length of nails being used              |
|  | Broken weld wires in nail coil                           | Remove coil of nails and use another coil                       |
| Fasteners jam in tool/canister           | Wrong size fasteners for tool                            | Use only recommended fasteners/check canister bottom adjustment |
|  | Broken welded wires in nail coil                         | Remove coil of nails and use another coil                       |
|  | Wrong slide plate adjustment for wire collated nail coil | Adjust switch pins for wire collated nail coil                  |