

## SDN11PTB PNEUMATIC STICK NAILER



### OPERATION and MAINTENANCE MANUAL

**⚠ 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 STAN-TECH REPRESENTATIVE OR DISTRIBUTOR.

# INTRODUCTION

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The Stan-Tech SDN11PTB series stick nailer tools are precision-built tools, designed for high speed, high volume fastening. 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 manuals kept for reference.

NOTE: Additional safety measures may be required because of your particular application of the tool. Contact your Stan-Tech representative or distributor with any questions concerning the tool and its use.

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# NOTE:

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Stan-Tech tools have been engineered to provide excellent customer satisfaction and are designed to achieve maximum performance when used with precision Stan-Tech fasteners engineered to the same exacting standards.

**Stan-Tech cannot assume responsibility for product performance if our tools are used with fasteners or accessories not meeting the specific requirements established for genuine Stan-Tech nails, staples and accessories.**

# LIMITED WARRANTY

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Stan-Tech warrants to the original retail purchaser that this product is free from defects in material and workmanship, and agrees to repair or replace, at Stan-Tech's option, any defective product within 90 days 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 or accident.

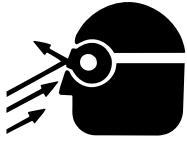
THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES. ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS LIMITED TO THE DURATION OF THIS WARRANTY. STAN-TECH SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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, you must return the product at your expense together with proof of purchase to a STAN-TECH Regional warranty repair center or you may call us at 1-800-343-1234 for the location of additional authorized warranty service locations 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 as this may cause deflection of fasteners which could cause injury.

## MAINTAINING THE TOOL

## ⚠️WARNING:

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

# SDN11PTB TOOL SPECIFICATIONS

All screws and nuts are metric.

MODEL	TOOL ACTUATION	LENGTH	HEIGHT	WIDTH	WEIGHT
SDN11PTB-1	Contact Trip	20" (508mm)	14" (355mm)	5-7/16" (138mm)	8.75lbs (4Kg)
SDN11PTB-2	Sequential Trip	20" (508mm)	14" (355mm)	5-7/16" (138mm)	8.75lbs (4Kg)

## FASTENER SPECIFICATIONS:

Wide range of nail sizes in lengths of 2" to 3-1/2" (50-90mm) and shank diameters of .113" to .131" (2.8 - 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:

The operating pressure of the SDN11PTB tool is 60 to 100 p.s.i. (4.2 to 7.1 kg/cm<sup>2</sup>). Select the operating pressure within this range for best fastener performance.

**DO NOT EXCEED THIS RECOMMENDED OPERATING PRESSURE.**

## AIR CONSUMPTION:

Model SDN11PTB requires 7.8 cubic feet per minute (.22 cubic meters) of free air to operate at the rate of 100 fasteners per minute, at 80 p.s.i. (5.6kg/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 fasteners per minute, you need 50% of the tool's c.f.m. of free air which is required for running at 100 fasteners per minute.

# OPERATION

STAN-TECH 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.

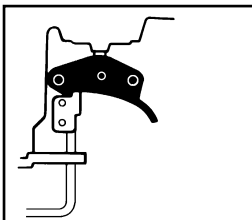
The Sequential Trip allows exact fastener location without the possibility of driving a second fastener on recoil, as described under "Contact Trip".

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.

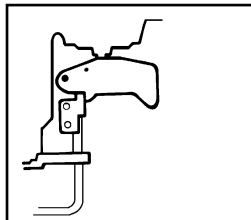
## MODEL IDENTIFICATION:

Refer to Operation Instructions on page 7 before proceeding to use this tool.

**CONTACT TRIP**  
Identified by:  
**BLACK TRIGGER**



**SEQUENTIAL TRIP**  
Identified by:  
**GRAY TRIGGER**



# AIR SUPPLY AND CONNECTIONS

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## **⚠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/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 p.s.i. 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. 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.

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## **LUBRICATION**

Frequent, but not excessive, lubrication is required for best performance. Oil added through the air line connection will lubricate the internal parts. Use STAN-TECH 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:**

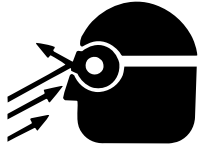
For cold weather operation, near and below freezing, the moisture in the air line may freeze and prevent tool operation. We recommend the use of STAN-TECH WINTER FORMULA air tool lubricant or permanent antifreeze (ethylene glycol) as a cold weather lubricant.

**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 SDN11PTB

## **⚠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 the tool while the air supply is connected.
- Never point the tool toward 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.

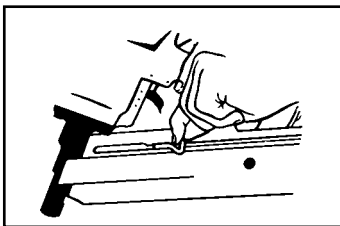
# FASTENER DEPTH CONTROL ADJUSTMENT

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

## **TO ADJUST THE FASTENER DEPTH CONTROL:**

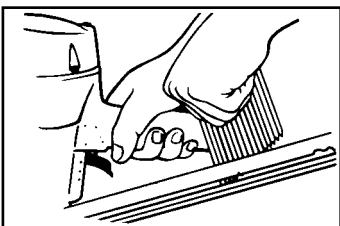
### **⚠WARNING:**

**DISCONNECT TOOL FROM AIR SUPPLY BEFORE ATTEMPTING ANY PARTS DISASSEMBLY AND BEFORE CHANGING THE WORK CONTACTING ELEMENT ADJUSTMENT.**



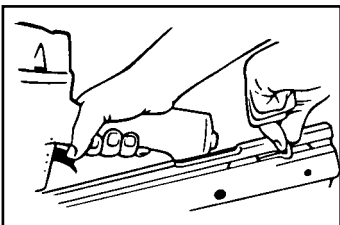
### **1. Open the magazine:**

Pull pusher back to engage latch.



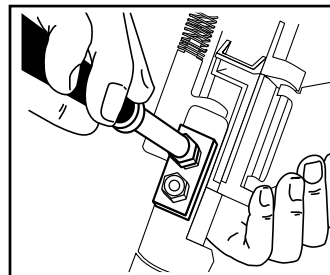
### **2. Load Nails:**

Hold nailer with magazine tilted downward. Insert stick of nails.



### **3. Close Magazine:**

Release latch by pulling latch tab and pusher together slightly to disengage, slide pusher against nails.



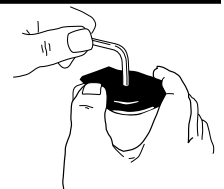
1. With air pressure set, drive a few fasteners into a representative material sample to determine if adjustment is necessary.
2. If adjustment is required, disconnect air supply.
3. If adjustment to the drive depth is required, measure the difference in depth between the nail as driven in the sample material and the desired drive. The depth control should be

changed by the same amount. To reduce the drive depth, the work contacting element should be lengthened. To obtain a deeper drive, the work contacting element should be shortened.

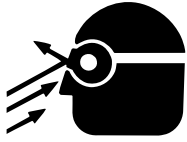
4. To make the adjustment, use a 10mm wrench or nut driver to loosen the (2) elastic stop nuts on the depth control approximately 2 full revolutions. It is not necessary to remove these nuts. Move the lower portion of the depth control to the desired height and tighten the nuts. Do not overtighten. Check that the work contacting element operates freely without sticking or binding.
5. Reconnect air supply and drive a few fasteners in a sample of material to determine if adjustment is correct. If further adjustment is necessary, disconnect air and repeat above.

# **DIRECTIONAL EXHAUST DEFLECTOR**

Loosen screw as shown. Adjust to desired exhaust direction and tighten screw as specified in tool parts illustration.



**NOTE:** Use only nails recommended for use in STAN-TECH SDN11PTB series nailers or nails which meet STAN-TECH specifications.

**⚠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 STAN-TECH 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:

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**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.**

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

- Use the STAN-TECH 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 STAN-TECH.
- 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**.

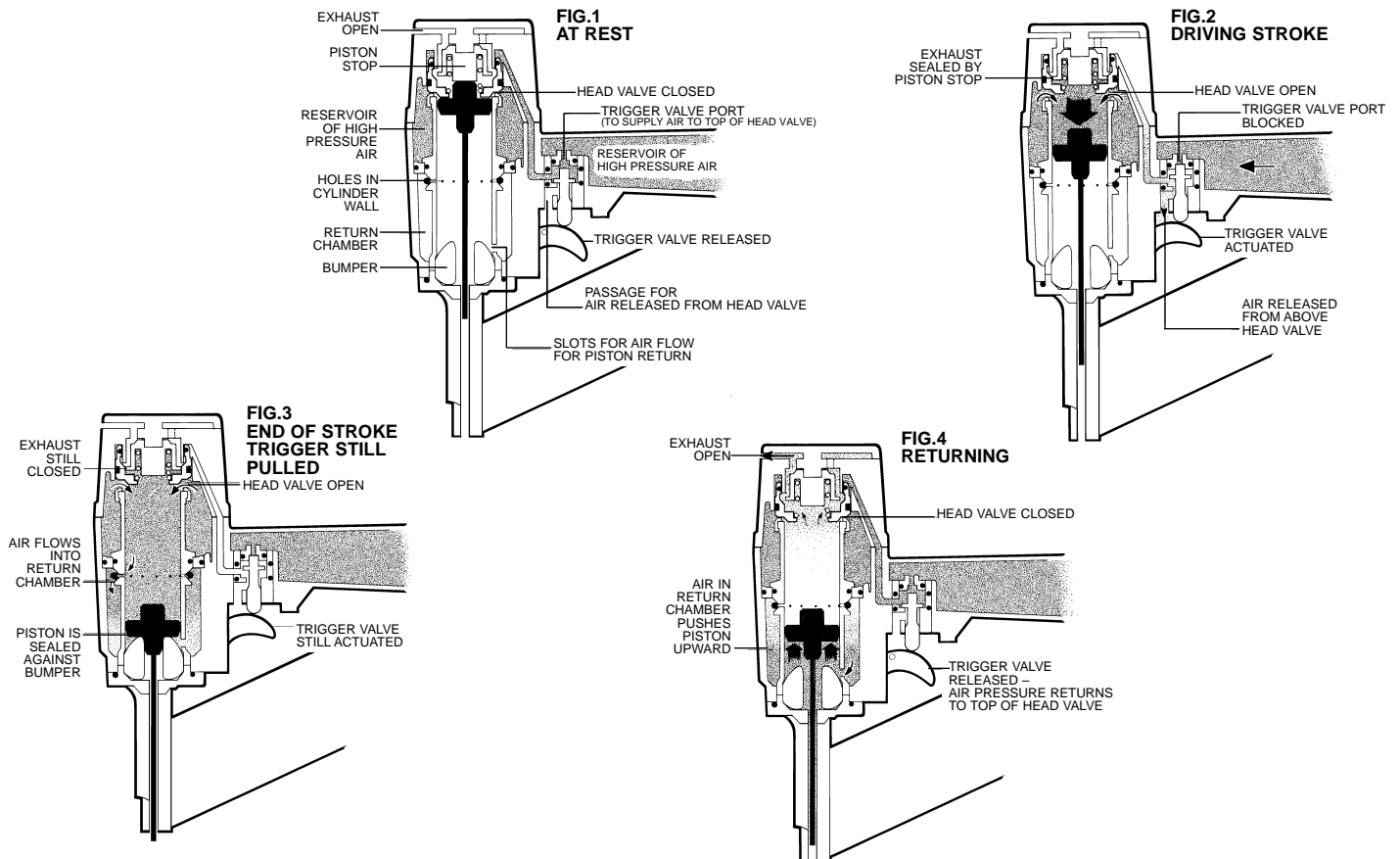
**NOTE:** Do not continue to use a tool that leaks air or does not function properly. Notify your nearest Stan-Tech representative if your tool continues to experience functional problems.



# BASIC TOOL OPERATION

Stan-Tech pneumatic tools are cycled by a compressed air operated single piston design. The following illustrations show the four functional cycles that occur when the tool is operated to drive a fastener:

## BASIC SINGLE PISTON STAPLER/NAILER



## MAINTAINING THE PNEUMATIC TOOL

### **⚠WARNING:**

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

**CAUTION:** Pusher spring (constant force spring). Caution must be used when working with the spring assembly. The spring is wrapped around, but not attached to, a roller. If the spring is extended beyond its length, the end will come off the roller and the spring will roll up with a snap, with a chance of pinching your hand. Also the edges of the spring are very thin and could cut. Care must also be taken to insure no permanent kinks are put in the spring as this will reduce the springs force.

### REPLACEMENT PARTS:

STAN-TECH 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 STAN-TECH 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.

# TROUBLE SHOOTING

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

## COIL NAILERS

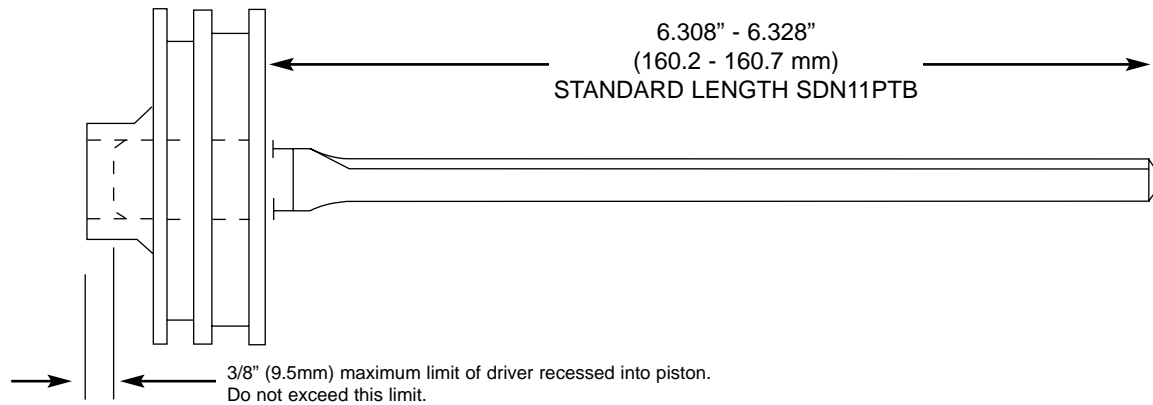
Skipping fasteners; intermittent feed.....	Feed piston dry.....	Add STAN-TECH Air Tool Lubricant
	in hole in feed piston cover	
	Feed piston O-rings cracked/worn.....	Replace O-rings/check bumper and spring. Lubricate assembly.
	Check Pawl binding.....	Inspect Pawl and spring on door. Must work freely.
Fasteners jam in tool/canister.....	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
	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/plastic collated nail coil.....	Adjust switch pins for wire/plastic collated nail coil

# DRIVER LENGTH AND ADJUSTMENT

The driver length may be adjusted to compensate for wear. Heat and precise measurement are required. Contact a qualified service technician if adjustment is necessary.

The standard length, measured from the bottom of the main piston to the tip of the driver is: 6.328".

**NOTE:** Driver wear of approximately 1/8" (3mm) can be tolerated in most applications. However, in difficult driving applications, driver wear of approximately 1/16" (1.5mm) may cause a slight reduction in the apparent driving power.



**NOTE:** For "Flush-Driving", length settings shorter than 5.808" (147.5mm) may be used. However, the adjusted length should never be less than 5.625" (142.8mm) or more than 5.828" (148mm), otherwise normal nailer function may be adversely affected.