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› Senco TN51P1P 15 Gauge Pneumatic Finish Nailer User Manual

Senco TN51P1P

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1. INTRODUCTION

This manual provides essential information for the safe and effective operation, setup, and maintenance of your Senco TN51P1P 15 Gauge Pneumatic Finish Nailer. Please read all instructions carefully before using the tool to ensure proper function and user safety. This tool is designed for professional finish carpentry applications, including installing casing, paneling, cabinetry, and various other finish applications.



Image: Front view of the Senco TN51P1P 15 Gauge Pneumatic Finish Nailer.

2. SAFETY INFORMATION

Always observe basic safety precautions to reduce the risk of personal injury and damage to the tool. Failure to follow these instructions may result in serious injury.

- **Read the Manual:** Understand all instructions and warnings before operation.
- **Wear Eye Protection:** Always wear ANSI Z87.1 approved safety glasses with side shields.
- **Wear Hearing Protection:** Prolonged exposure to noise can cause hearing damage.
- **Wear Appropriate Clothing:** Do not wear loose clothing or jewelry that could get caught in moving parts.
- **Disconnect Air Supply:** Always disconnect the air supply before loading fasteners, performing maintenance, clearing jams, or when the tool is not in use.

- **Never Point at People:** Never point the tool at yourself or others.
- **Use Correct Air Pressure:** Do not exceed the recommended operating pressure (70-120 PSI).
- **Secure Workpiece:** Ensure the workpiece is stable and secure before fastening.
- **Maintain Good Footing:** Work in a well-lit area and maintain proper balance.
- **Keep Children Away:** Do not allow children or untrained individuals to operate the tool.

3. PRODUCT FEATURES

The Senco TN51P1P Finish Nailer is equipped with several features designed for efficiency and durability:

2 1/2" FINISH NAILER



- | | | |
|---|---|--|
| <p>1 OIL-LESS DESIGN
Routine lubrication is not required. Saving you time with daily maintenance</p> | <p>5 TOOL-FREE DEPTH ADJUSTMENT
For consistent flush or countersunk drives</p> | <p>9 NO-MAR PAD
Protects the worksurface from being scratched or damaged. Extra no-mar pad included</p> |
| <p>2 DRY FIRE LOCKOUT
Reduces tool wear and indicates the need to reload fasteners</p> | <p>6 360° ADJUSTABLE EXHAUST
Directs air away from the operator and worksurface</p> | <p>10 SWIVEL PLUG
For added maneuverability</p> |
| <p>3 SELECTABLE TRIGGER
Makes it easy to switch between contact or sequential firing modes</p> | <p>7 ROTATABLE BELT HOOK
Provides quick right/left hand access when needed</p> | <p>11 ALUMINUM MAINBODY
Durable and lightweight</p> |
| <p>4 QUICK CLEAR LATCH
Remove jams or misfeeds without the use of a tool</p> | <p>8 ERGONOMIC OVERMOLDED GRIP
Reduces fatigue and increases control of the tool</p> | |

Always read the Operators Manual and Safety Instructions with all tools to ensure proper use and safety precautions. For additional information on Senco fastening systems and how Senco will save you time, reduce costs and increase quality, call our toll-free Action Line: 800-543-4596, or visit our website at: www.Senco.com.

Image: Detailed diagram highlighting key features of the Senco TN51P1P nailer.

- **Oil-Less Design:** Eliminates the need for routine lubrication, saving time on daily maintenance.
- **Dry Fire Lockout:** Prevents the tool from firing when the magazine is empty, reducing wear and indicating when to reload.
- **Selectable Trigger:** Allows easy switching between contact actuation (bump fire) and sequential actuation modes for different applications.
- **Quick Clear Latch:** Provides a tool-free method to quickly clear nail jams or misfeeds.
- **Tool-Free Depth Adjustment:** Enables quick and easy adjustment of nail depth for consistent flush or countersunk drives.
- **360 Degree Adjustable Exhaust:** Directs exhaust air away from the operator or the work surface.
- **Rotatable Belt Hook:** Offers convenient access and storage, allowing for right or left-hand use.
- **Ergonomic Overmolded Grip:** Designed to reduce user fatigue and enhance control during operation.
- **Aluminum Main Body:** Ensures durability while maintaining a lightweight design.
- **Swivel Plug:** Enhances maneuverability by allowing the air hose to move freely.
- **No-Mar Pad:** Protects delicate work surfaces from scratches or damage during use.

4. SETUP

4.1 Connecting to Air Supply

1. Ensure the air compressor is off and the air hose is disconnected from the compressor.
2. Connect the air hose to the tool's swivel plug.
3. Set the air compressor pressure between 70-120 PSI (4.8-8.3 bar). Do not exceed 120 PSI.
4. Connect the air hose to the compressor and turn on the compressor.
5. Check for air leaks. If leaks are present, disconnect the air supply and tighten connections.

4.2 Loading Fasteners

The TN51P1P uses 15 gauge angled finish nails, ranging from 1-1/4" to 2-1/2" in length.

1. **Disconnect the air supply** from the tool.
2. Pull back the pusher assembly until it locks into place.
3. Insert a strip of 15 gauge angled finish nails into the magazine, ensuring the nail points are facing down and the collation angle matches the tool's magazine.
4. Release the pusher assembly, allowing it to push the nails forward until they are seated correctly.
5. Reconnect the air supply.

4.3 Adjusting Depth of Drive

The tool features a tool-free depth adjustment mechanism.

1. **Disconnect the air supply** from the tool.
2. Locate the depth adjustment dial or lever near the nose of the tool.
3. Rotate the dial or move the lever to increase or decrease the depth of the nail drive. Test on a scrap piece of material to achieve the desired depth.
4. Reconnect the air supply.

4.4 Selecting Firing Mode

The selectable trigger allows you to choose between two firing modes:

- **Sequential Actuation:** The trigger must be pressed for each fastener. The contact element must be depressed against the workpiece before the trigger is pulled. This mode offers precise fastener placement.
- **Contact Actuation (Bump Fire):** The tool will fire a fastener each time the contact element is depressed against the workpiece while the trigger is held down. This mode is suitable for rapid fastening.

To switch modes, locate the selector switch on the trigger assembly and move it to the desired position.

5. OPERATING INSTRUCTIONS

1. Ensure all safety precautions are followed and the tool is properly set up.
2. Hold the tool firmly with both hands.
3. Place the nose of the tool firmly against the workpiece where the fastener is to be driven.
4. For sequential mode, depress the contact element against the workpiece, then pull the trigger. For contact mode, hold the trigger and depress the contact element against the workpiece.
5. After driving a fastener, lift the tool from the workpiece.

5.1 Dry Fire Lockout

The dry fire lockout feature prevents the tool from operating when the magazine is empty. This protects the tool from unnecessary wear. When the tool stops firing, it indicates that the magazine needs to be reloaded with fasteners.

5.2 Clearing Jams

If a fastener jam occurs:

1. **Immediately disconnect the air supply** from the tool.
2. Locate the quick clear latch near the nose of the tool.
3. Open the latch to expose the fastener channel.
4. Carefully remove the jammed fastener using pliers if necessary. Do not force it.
5. Close the quick clear latch securely.
6. Reconnect the air supply and test the tool on a scrap piece.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Senco TN51P1P nailer.

- **Oil-Less Design:** This tool features an oil-less design, meaning routine lubrication of the internal components is not required. Do not add oil to the air inlet.
- **Daily Cleaning:** Keep the tool clean and free of debris. Wipe down the exterior with a clean, dry cloth.
- **Inspect Air Filter:** Periodically check the air inlet filter for clogs and clean if necessary.
- **Check Fastener Channel:** Ensure the fastener channel is clear of any residue or small debris that could cause jams.
- **Store Properly:** When not in use, store the tool in a dry, secure location, disconnected from the air supply.

7. TROUBLESHOOTING

If you encounter issues with your Senco TN51P1P nailer, refer to the following common troubleshooting steps:

- **Tool Not Firing:**

- Check air supply connection and pressure (70-120 PSI).
- Ensure magazine is loaded with fasteners (dry fire lockout engaged if empty).
- Verify the contact element is fully depressed against the workpiece.
- Check for jammed fasteners.

- **Nails Not Driving Fully:**

- Increase air pressure within the recommended range.
- Adjust the depth of drive setting.
- Ensure the correct length and gauge of fasteners are being used.

- **Nails Jamming Frequently:**

- Ensure fasteners are loaded correctly and are not damaged.
- Check for debris in the fastener channel.
- Verify the correct fastener type for the tool.

- **Air Leaks:**

- Tighten all air connections.
- Inspect O-rings and seals for damage.

If problems persist after following these steps, contact Senco customer support or an authorized service center.

8. SPECIFICATIONS

Key specifications for the Senco TN51P1P 15 Gauge Pneumatic Finish Nailer:

FASTENERS

Series	DA
Capacity	110
Range	1¼" - 2½" (32mm - 65mm)
Gauge	15
Shank	.069" (1.75mm)
Collation	34° Angled Taped Strip



Image: Tool specifications for the Senco TN51P1P.

SPECIFICATIONS

Trigger	Selectable
Op. Pressure	70-120 psi (4.8 - 8.3 bar)
Air Consumption (60 CPM)	3.2 scfm
Air Inlet	¼" NPT
Weight	4.5 lbs (2.0 kg)
Height	12.25" (311 mm)
Length	13" (330 mm)
Width	3.5" (89 mm)
Main Body Material	Aluminum



Senco TN51P1P Tool Specifications

Feature	Value
Trigger	Selectable
Operating Pressure	70 - 120 PSI (4.8 - 8.3 bar)
Air Consumption (60 CPM)	3.2 scfm
Air Inlet	1/4" NPT
Weight	4.5 lbs (2.0 kg)
Height	12.25" (311 mm)
Length	13" (330 mm)
Width	3.5" (89 mm)
Main Body Material	Aluminum

Senco TN51P1P Fastener Specifications

Feature	Value
Series	DA
Capacity	110 fasteners
Range	1-1/4" - 2-1/2" (32mm - 65mm)
Gauge	15 Gauge
Shank Diameter	0.069" (1.75mm)
Collation	34° Angled Taped Strip

9. WARRANTY AND SUPPORT

The Senco TN51P1P Finish Nailer comes with a manufacturer's warranty. For specific warranty details, please refer to the warranty documentation included with your product or visit the official Senco website. The product description mentions a general "Warranty" without further specifics.

For technical assistance, parts, or service, please contact Senco customer support. Always provide your tool's model number (TN51P1P) and serial number when seeking support.

Optional protection plans may be available for purchase separately, offering extended coverage beyond the manufacturer's warranty.