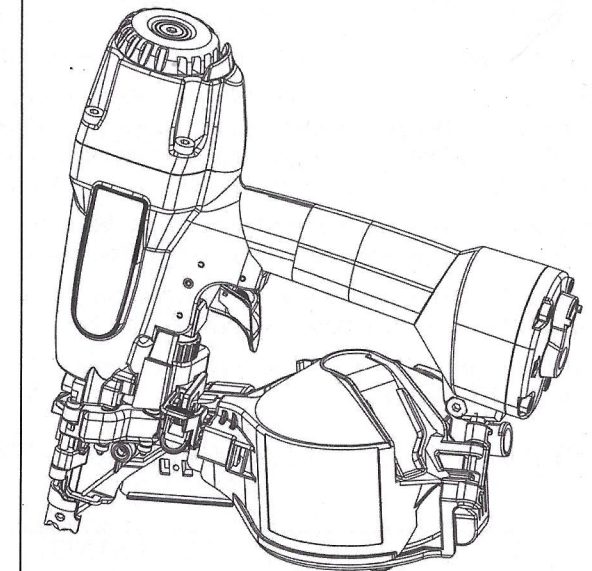


# Operator's Manual

Model No.:CN45

15°Construction Coil Nailer



## GENERAL WARRANTY CONDITIONS

Warranty will be honored, only if:

1. Clean, dry, regulated compressed air has been used at air pressure not exceeding the maximum indicated on the tool casting;
2. No evidence of abuse, abnormal conditions, accident, neglect, misuse or improper modifications or storage of the product exists;
3. No deviations from following recommended operating instructions, specifications, and maintenance schedules exist. (Read Operator Manual for use, specifications and maintenance instructions).

**NOTE:** Please read and fully understand the instructions in this manual before operating the pneumatic power tool. Carefully read through this OPERATOR'S MANUAL to ensure efficient, safe operation. It is recommended that the Manual be kept readily available as an important reference when using this tool.

**Important Information**

**WARNING:** The warnings, cautions and instructions discussed in this instruction manual can not cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which can not be built into this product, but must be supplied by the operator.



When using the tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

Read and understand tool labels and operating instructions, safety precautions and warnings in this manual before operating or maintaining this nailer.

Failure to follow warnings could result in **DEATH** or **SERIOUS INJURY**.

Most accidents that result from the operation and maintenance of nailers are caused by the failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing a potentially hazardous situation before it occurs and by observing appropriate safety procedures.

Basic safety precautions are outlined in the "**SAFETY**" section of this manual and in the sections which contain the operation and maintenance instructions.

Hazards that must be avoided to prevent bodily injury or tool damage are identified as **DANGERS** or **WARNINGS** on the nailer and in this manual.

Never allow the nailer to be operated by children or individuals who have not reviewed this manual.

**OPERATE THE NAILER ACCORDING TO THIS MANUAL.**

**WARNING!**

Always follow the tool manufacturer's safety and maintenance instructions.

Always wear safety glasses with side shields when operating or servicing tools.

Always disconnect the air supply from the tool and empty the magazine when servicing tools.

**SAVE THIS MANUAL FOR FUTURE REFERENCE!**

**Tool Information**

**Nailer Specifications: CN45 Construction Coil Nailer**

Tool Dimensions- Length x Width x Height	11-1/8" x 4-1/4" x 10-1/8" (284mm x 108mm x 260mm)
Weight	3.50 lbs. (1.60kg) Aluminum Body
Nail Capacity	400 nails (Wire Welded Nails) 200 nails (Plastic Sheet Collated Nails)
Recommended Operating Pressure	70~100 psi (5~7 bar)

**Applications**

Sub-flooring, fencing;  
Wall sheathing and roof sheathing;  
Fastening gypsum board, decorative board and other interior boards.

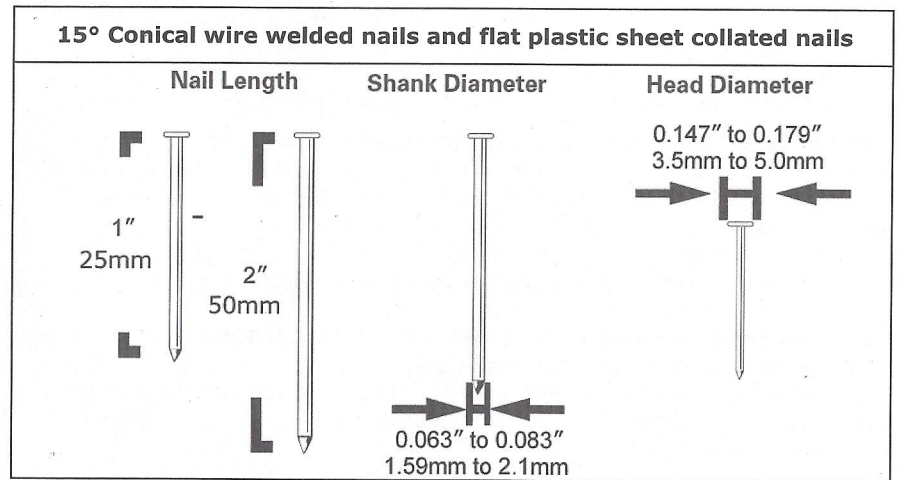
**Nail Specifications**

**WARNING:** Be sure to use only the genuine nails recommended for the this nailer. The use of any other nails can result in tool malfunction, leading to serious injuries.

Only the nail sizes shown in the table below can be driven with this nailer.

**Fasteners:** Shank type Smooth, Ring, Screw

**Dimension of Fasteners**





**Safety Information****WARNING:**

BEFORE USING THE TOOL, READ CAREFULLY AND UNDERSTAND THE FOLLOWING SAFETY INSTRUCTIONS. FAILURE TO FOLLOW WARNING COULD RESULT IN DEATH OR SERIOUS INJURY.

**1. WEAR SAFETY GLASSES OR GOGGLES.**

Danger to the eyes always exists due to the possibility of dust being blown up by the exhausted air or of a fastener flying up due to the improper handling of the tool. For these reasons, safety glasses or goggles shall always be worn when operating the tool. 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 (Council Directive 89/686/EEC of 21 DEC.1989) and provide both frontal and side protection.

The employer is responsible to enforce the use of eye protection equipment by the tool operator and all other personnel in the work area.

**NOTE:** Non-side shielded spectacles and face shields alone do not provide adequate protection.

**2. EAR PROTECTION MAY BE REQUIRED IN SOME ENVIRONMENTS.**

As the working condition may include exposure to high noise levels which can lead to hearing damage, the employer and user should ensure that any necessary hearing protection is provided and used by the operator and others in the work area.

**3. DO NOT USE ANY POWER SOURCE EXCEPT AN AIR COMPRESSOR.**

The tool is designed to operate on compressed air. Do not operate the tool on any other high pressure gas, combustible gases (e.g., oxygen, acetylene, etc) since there is the danger of an explosion. For this reason, absolutely so not use anything other than an air compressor to operate the tool.

**4. OPERATE WITHIN THE PROPER AIR PRESSURE RANGE.**

The tool is designed to operate within an air pressure range of 70 p.s.i. to 100 p.s.i. (5 to 7 bar.). The pressure should be adjusted to the type of the work being fastened. The tool shall never be operated when the operating pressure exceeds 120 p.s.i. (8 bar). Never connect the tool to air pressure which potentially exceeds 200 p.s.i. (14 bar) as the tool can burst.

**5. DO NOT OPERATE THE TOOL NEAR A FLAMMABLE SUBSTANCE.**

Never operate the tool near a flammable substance (e.g., thinner, gasoline, etc). Volatile fumes from these substances could be drawn into the compressor and compressed together with the air and this could result in an explosion.

**Safety Information****6. DO NOT USE A WRONG FITTING.**

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.

**7. DISCONNECT THE AIR SUPPLY AND EMPTY THE MAGAZINE WHEN THE TOOL IS NOT IN USE.**

Always disconnect the air supply from the tool and empty the magazine when operation has been completed or suspended, when unattended, moving to a different work area, adjusting, disassembling, or repairing the tool, and when clearing a jammed fastener.

**8. INSPECT SCREW TIGHTNESS.**

Loose or improperly installed screws or bolts cause accidents and tool damage when the tool is put into operation. Inspect to confirm that all screws and bolts are tight and properly installed prior to operating the tool.

**9. DO NOT TOUCH THE TRIGGER UNLESS YOU INTEND TO DRIVER A FASTENER.**

Whenever the air supply is connected to the tool, never touch the trigger unless you intend to drive a fastener into the work. It is dangerous to walk around carrying the tool with the trigger pulled, and this and similar actions should be avoided.

**10. NEVER POINT THE DISCHARGE OUTLET TOWARD YOURSELF AND PERSONNEL.**

If the discharge outlet is pointed toward people, serious accidents may be caused when misfiring. Be sure the discharge outlet is not pointed toward people when connecting and disconnecting the hose. Loading and not loading the fasteners or similar operations.

**11. USE SPECIFIED FASTENERS.**

The use of fasteners other than specified fasteners will cause the tool malfunction. Be sure to use only specified fasteners when operating the tool.

**12. PLACE THE DISCHARGE OUTLET TO THE WORK PROPERLY.**

Failure to place the discharge outlet of the nose in a proper manner can result in a fastener flying up and is extremely dangerous.

**13. KEEP HANDS AND BODY AWAY FROM THE DISCHARGE OUTLET**

When loading and using the tool, never place a hand or any part of body in fastener discharge area of the tool. It is very dangerous to hit the hands or body by mistake.



**Safety Information****14. DO NOT DRIVE FASTENERS CLOSE TO THE EDGE AND CORNER OF THE WORK AND THIN MATERIAL**

The work piece is likely to split and the fastener could fly and hit someone.

**15. DO NOT DRIVE FASTENERS ON THE TOP OF OTHER FASTENERS.**

Driving fasteners on the top of other fasteners may cause deflection fasteners which could cause injury.

**16. REMOVING THE FASTENERS AFTER COMPLETING OPERATION**

If fasteners are left in the magazine after the completion of operation, there is the danger of a serious accident occurring prior to the resumption of operation, should the tool be handled carelessly, or when connecting the air remove all fitting. For this reason, always fasteners remaining in the magazine after completion of the operation.

**17. CHECK OPERATION OF THE CONTACT TRIP MECHANISM FREQUENTLY IN CASE OF USING A CONTACT TRIP TYPE TOOL**

Do not use the tool if the trip is not working correctly as accidental driving of a fastener may result. Do not interfere with the proper operation of the contact trip mechanism.

**18. WHEN USING THE TOOL OUTSIDE OR ELEVATED PLACE.**

When fastening roofs or similar slanted surface, start fastening at the lower part and gradually work your way up. Fastening backward is dangerous as you may lose your foot place. Secure the hose at a point close to the area you are going to drive fasteners. Accidents may be caused due to the hose being pulled inadvertently or getting caught.

**19. NEVER USE THE TOOL IF ANY PORTION OF THE TOOL CONTROLS (e.g., TRIGGER, CONTACT ARM) IS INOPERABLE DISCONNECTED, ALTERED OR NOT WORKING PROPERLY.****20. NEVER ACTUATE THE TOOL INTO FREE SPACE.**

This will avoid any hazard caused by free flying fasteners and excessive strain of the tool.

**21. ALWAYS ASSUME THAT THE TOOL CONTAINS FASTENERS.****Employer's Responsibilities**

1. Ensure that this manual is available to operators and personnel performing maintenance.
2. Ensure that nailers are used only when operators and others in work area are wearing EYE PROTECTION.
3. Keep nailer in safe working order.
4. Maintain nailer properly.

**Nailer Connection and Operation**

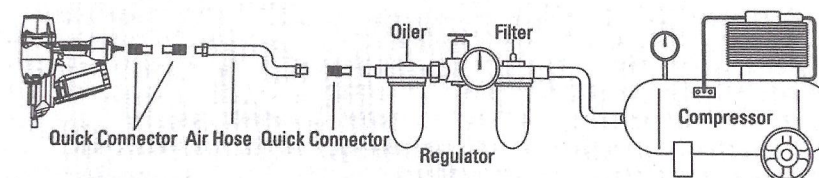
**NOTE:** The information contained in this manual is designed to assist you in the safe operation of the nailer. Some illustrations in this Manual may show details or attachments that are different from those on your nailer.

**Air Supply, Connections and Operating Pressure**

**Read section titled SAFETY. Make sure of the following before operation:**

**Air Supply****Power Source (Compressor)**

- Use only clean, dry, regulated compressed air as a power source for this nailer.
- NEVER use oxygen or other bottled gases, as an explosion may occur.
- Air compressors used to supply compressed air to this nailer must comply with the requirements of the latest version of ANSI Standard B 19.3 Safety Standard for compressors for Process Industries.
- Moisture or oil in the air compressor may accelerate wear and corrosion in the nailer.
- Drain daily.

**Connections****1. Fittings**

Install a female coupler to the hose. The female coupler will connect to the quick release that fits the tool.

**2. Filter-Regulator-Lubricator**

- NEVER connect nailer to pressure which potentially exceeds 150psi.
- Filter-regulator-lubricator units supply an optimum condition for the nailer and extend the nailer life. These units should always be used.

**Filter**

- The filter removes moisture and dirt mixed in compressed air.
- Keep the filter clean by maintaining tool regularly.
- Drain daily.

**Regulator**

- The regulator controls the operating pressure for safe operation of the nailer.
- Inspect the regulator before operation to be sure it operates properly.



**Nailer Connection and Operation**

**Lubricator**

- The lubricator supplies and oil mist to the nailer.
- Inspect the lubricator before operation to be sure the supply of lubricant is adequate.
- If an inline lubricator is not used, a few drops of oil will need to be added to the nailer inlet before each use.

**3. Air Hose**

Air hose must have a minimum working pressure rating of 150psi or 150% of the maximum pressure produced in the system, whichever is higher. Hose has a min. ID of 1/4" and max. length of no more than 17'(5 meter). The supply hose should contain a fitting that will provide "quick disconnecting" from the male plug on the tool.

**Operating Pressure**

- Recommended operating pressure range is 70 to 100 psi.
- Maximum permissible operating pressure is 150 psi.
- Select the operating pressure within this range for the best fastener performance. The nail length and thickness and the hardness of the wood are factors in determining what the pressure should be set at.
- Do not exceed this recommended operating pressure.

**NOTE:**Dirt and water in the air supply are major causes of wear in the tool. An air filter will help to get the best performance and minimum wear from the tool. Frequent, but not excessive, lubrication is required for the best performance. Oil added through the air line connection will lubricate the internal parts.

**WARNING**

**NEVER connect nailer to pressure which potentially exceed 150psi. DO NOT USE THE WRONG FITTING ON NAILER.**



The nailer and air hose must have a hose coupler so that all pressure is removed from the nailer when the coupler is disconnected. The connector on the tool must not hold pressure when the air supply is disconnected. If the wrong fitting is used, the tool can remain charged with air after disconnecting and thus will be able to drive a nail even after the air line is disconnected, possibly causing injury.

**DANGER**



**NEVER use oxygen or other bottled gases, as an explosion may occur.**

**Maintenance and Inspection**

Read the section title **SAFETY**.

**SERVICE AND REPAIRS**

All quality tools will eventually require servicing or replacement of parts due to wear from normal use. It is recommended that these operations should be performed by a professional technician.

**NOTE:**The information contained in this Manual is designed to assist you in the safe maintenance of the nailer. Some illustrations in this Manual may show details or attachments that are different from those on your nailer.

**WARNING:** Disconnect air hose and remove nails from nailer when:

- Doing maintenance and inspection
- Cleaning a jam

**Inspecting the magazine**

1. DISCONNECT AIR HOSE.
2. Clean the magazine. Remove dust which may have accumulated in the magazine.
3. Lubricate the nailer rail with nailer lubricant.

**Clearing a jam**

Remove a jammed nail in the following order:

1. DISCONNECT AIR HOSE.
2. Remove all nails.
3. Remove the jammed nail with a slotted head screwdriver.
4. In case of frequent jams, contact an authorized service center.

**A qualified person should perform repair and maintenance**

**Periodic maintenance to be performed:**

- Check that the piston bumper is operating normally. A damaged piston bumper may cause damages to other component parts.
- Check o-rings for wear or damage. Damaged o-rings may affect overall performance.
- Make sure all screws are secure. Loose screws may affect overall performance.
- When repairing a tool, make sure the internal parts are clean and lubricated.

**Storing**

- When not in use of an extended period, apply a thin coat of the lubricant to the steel parts to avoid rust.
- The nailer should be stored in a warm and dry place when not in use. Do not store the nailer in a cold weather environment.



Parts List and Drawing

CN45 PARTS LIST

NO.	CODE	Description	NO.	CODE	Description
1	610200	BOLT M6X20	54	420080	TRIGGER VALVE CAP
2	321600	BUSHING	55	320110	TRIGGER STEM
3	410490	EXHAUST COVER	56	510030	O-RING 2.5X1.4
4	321590	EXHAUST FILTER (A)	57	620050	TRIGGER VALVE SPRING
5	321580	EXHAUST FILTER (B)	58	510240	O-RING 8.6X1.9
6	610120	BOLT M5X25	59	330010	TRIGGER VALVE BUSHING
7	110380	CYLINDER CAP	60	510180	O-RING 5.8X1.9
8	520240	GASKET	61	420160	PIN CAP (B)
9	410480	BACK BUMPER	62	321640	STEP PIN
10	421000	EXHAUST SEAL	63	620730	FEED SPRING
11	620690	COMPRESSION SPRING	64	321630	CHECK TOE
12	420990	HEAD VALVE PISTON	65	420170	PIN CAP (A)
13	510550	O-RING 40X2.65	66	210510	FEED PAWL
14	410470	BUMPER	67	620720	SPRING
15	510690	O-RING 51.5X2.65	68	321620	FEED PAWL PIN
16	420980	CYLINDER RING	69	321610	DOOR PIN
17	510540	O-RING 38.7X3.55	70	210500	NOSE
18	310330	CYLINDER	71	210490	DOOR
19	510530	O-RING 38.7X2.65	72	322170	CHECK PAWL PIN
20	420970	CYLINDER COLLAR	73	210480	CHECK PAWL
21	110370	BODY	74	620710	CHECK PAWL SPRING
22	410460	HANDLE GRIP	75	421010	GUARD COVER
23	640010	ROLL PIN 2X8	76	640130	ROLL PIN 3X20
24	420590	TRIGGER BRACKET	77	210470	LATCH
25	620370	SPRING	78	620700	LATCH SPRING
26	110190	ADJUSTER BUTTON	79	510260	O-RING 9X1.8
27	320880	CONTACT PLATE	80	321720	FEED PISTON
28	420580	TRIGGER	81	510390	O-RING 17X2.65
29	640180	ROLL PIN 3X30	82	620120	FEED PISTON SPRING
30	420950	PIN CAP	83	410510	FEED PISTON BUMPER
31	323170	STEP PIN	84	321710	FEED PISTON CAP
32	510090	O-RING 4X1.5	85	630080	SNAP RING
33	610210	BOLT M6X22	86	520250	END CAP SEAL
34	321550	SAFETY UPPER	87	110390	END CAP
35	620670	SPRING	88	610110	BOLT M5X22
36	420930	SAFETY UPPER GUIDE	89	421060	MAGAZINE COVER
37	640020	ROLL PIN 2.5X10	90	421050	SPRING HOLDER (A)
38	420920	ADJUSTER DIAL	91	620750	MAGAZINE SPRING
39	420910	SAFETY GUIDE	92	421040	NAIL SUPPORT PLATE
40	321680	ADJUSTER	93	321700	SPRING HOLDER (B)
41	510140	O-RING 5.15X1.8	94	421030	MAGAZINE
42	630180	SNAP RING	95	610140	BOLT M5X35
43	321670	NUT	96	610320	NUT M5
44	321660	SAFETY	97	321690	MAGAZINE PIN
45	#####	NOT APPLICABLE	98	410500	NOSE CAP
46	321650	DIRVER BLADE	99	#####	NOT APPLICABLE
47	310340	PISTON	100	510310	O-RING 10X1.8
48	510480	O-RING 30X3.55	101	510210	O-RING 6.3X1.8
49	620740	SPRING	102	323130	STRAIGHT PIN
50	640250	STRAIGHT PIN B3X15	103	511020	O-RING 1.5X1.8
51	420090	TRIGGER VALVE CAGE			
52	510410	O-RING 18.3X2.65			
53	510380	O-RING 16X1.8			
			P1	D321651	DRIVER UNIT
			P2	T420091	TRIGGER VALVE

Parts List and Drawing

