



## 16Gauge 2-1/2 in. Straight Finish Nailer



**Model No. CFN64**

**IMPORTANT:**  
Please read this manual carefully before  
using this product, and save it for reference.

**INSTRUCTION  
MANUAL**

### Contact us



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## TECHNICAL SPECIFICATIONS

Operating pressure	70 – 120 psi (4.8 – 8.3bar 5 – 8.5 kgf/cm <sup>2</sup> )
Dimensions (Length*Height*Width)	11-3/4"(L) x 11-3/5"(H) x 4"(W)
	(298x295x102mm)
Net Weight	4.1 lbs (1.87 kg)
Nail capacity	100 nails (2 strips)
Air consumption	.042 ft <sup>3</sup> /cycle at 100 psi
	(1.2 ltr/cycle at 6.9 bar)
	(1.2 ltr/cycle at 7 kgf/cm <sup>2</sup> )
Air inlet	1/4 NPT Thread

CFM: Cubic feet per minute refers to the volumetric flow of air. This information is used to determine the proper compressor to suit your needs.

NPT: National Pipe Thread.

## SAFETY GUIDELINES

This manual contains information that relates to PROTECTING PERSONAL SAFETY and PREVENTING EQUIPMENT PROBLEMS. It is very important to read this manual carefully and understand it thoroughly before using the product. The symbols listed below are used to indicate this information.



### DANGER!

Potential hazard that could result in serious personal injury including possible death.



### WARNING!

Potential hazard that could result in serious personal injury to the tool user or others in the work area.



### CAUTION!

Potential hazard that could result in damage to the tool or property.

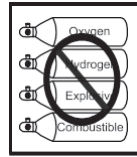
## PERSONAL SAFETY

These precautions are intended for the personal safety of the user and others working with the user. Please take time to read and understand them.

Make sure you read and understand this manual before using this tool. Make sure other users read and understand this manual before they use the tool.

## SAFETY GUIDELINES

- **DANGER!** Potential hazard that could result in serious personal injury including possible death.
- Do not use oxygen or any other combustible or bottled gas to power air-powered tools. Failure to observe this warning can cause explosion and serious personal injury or death.
- Do not use this tool in the presence of flammable liquids, dust or gases. Sparks that are created during use may ignite these materials.
- Use only compressed air to power air-powered tools. Use an approved air hose with a minimum length of 25' (7.6 m).
- Do not allow inexperienced or untrained individuals to operate any air-powered tool.
- Keep hands and other parts of the body away from the Outlet (Firing Head) during use.
- Nails or objects in the workpiece can cause serious injury if they are deflected by the workpiece.
- Keep children away from the work area. Do not allow children to handle power tools.
- Never point nailer toward yourself or anyone else.
- Always assume the nailer contains fasteners. Never point the nailer toward yourself or anyone else, whether it contains fasteners or not. If fasteners are mistakenly driven, it can lead to severe injuries. Never engage in horseplay with the nailer. Respect the nailer as a dangerous working implement.



## CAUTION!

Potential hazard that could result in damage to the tool or property.

- Disconnect the tool from the air supply and turn off the compressor before performing any maintenance, when the tool is not in use, when it is being handed to another person, when it is left unattended, or when loading and changing nails. Failure to comply may result in injury or damage to equipment.
- Do not exceed the maximum or minimum pressures. Operating the tool at the wrong pressure (too low or too high) may cause excessive noise or rapid wear.
- Use only Non-Detergent Air Tool Lubricating Oil for this tool.
- Near and below freezing, moisture in the air line may freeze and prevent tool operation. Do not store in a cold weather environment to prevent frost or ice formation. Frost and ice on the tools operating valves and mechanisms 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.



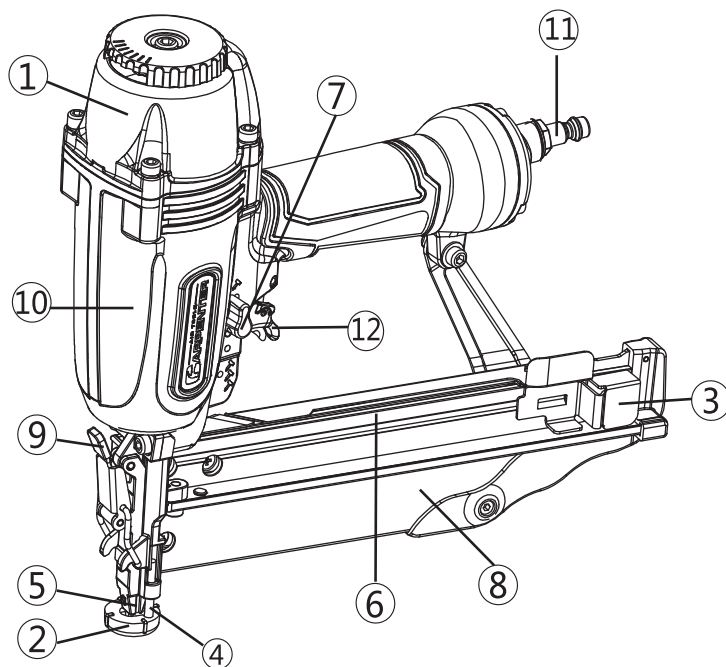
## WARNING!

Potential hazard that could result in serious personal injury to the tool user or others in the work area.

- Always wear eye and hearing protection when using the air compressor. Failure to do so may result in sight or hearing loss.
- Do not overload the tool. Allow the tool to operate at its optimum speed for maximum efficiency.
- Do not point the tool towards yourself or other people, even when the tool has stopped. Keep hands, feet, and all other parts of the body clear from work area.
- Do not attempt to clear nailer jams while the air hose is connected.
- Do not keep the trigger or the Push Lever pressed while loading nails.



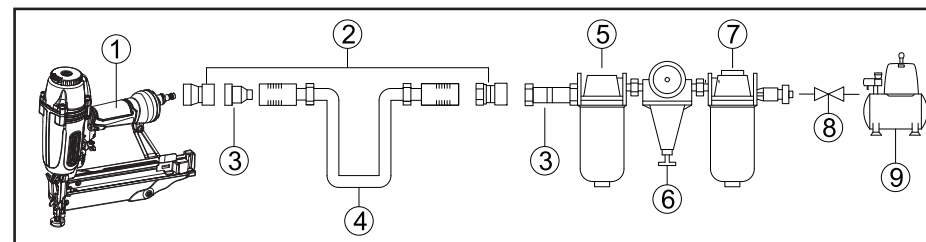
No.	Description	No.	Description
①	Exhaust Cover	⑦	Knob
②	Nose	⑧	Magazine
③	Feeder	⑨	Lock lever
④	Push Lever	⑩	Gun Body
⑤	Outlet (Firing Head)	⑪	Air plug
⑥	Nail Guide	⑫	Trigger



## COMPATIBLE COMPRESSORS

### GUIDELINES FOR PROPER USE AND OPERATION

Be sure to use a proper air compressor with CARPENTER Air Tools. The compressor should be able to supply a minimal air delivery of 4.1 CFM @ 90 PSI to ensure the compressor can run continuously with the CARPENTER Finish Nailer.



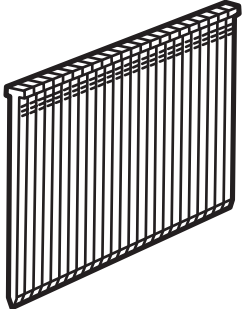
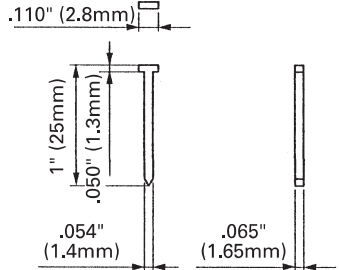

No.	Description	No.	Description
1	Air Finish Nailer	6	Regulator
2	Quick connector	7	Filter
3	Quick coupler	8	Cut-off valve
4	Air hose	9	Air compressor
5	Lubricator		

- It is recommended that a filter-regulator-lubricator be used and be located as close to the tool
- If a filter-regulator-lubricator is not installed, place up to 6 drops of compressor oil into the air inlet plug before each use.
- If a filter-regulator-lubricator is installed, keep the air filter clean. A dirty filter will reduce the air pressure to the tool, which will cause a reduction in power, efficiency, and general
- Verify that all of the connections in the air supply system are sealed in order to prevent air leakage.

Read and follow all the safety instructions at the beginning of this manual and inspect the air-powered nailer prior to each use in order to ensure that the proper power source is being used and verify that the tool is in proper working order

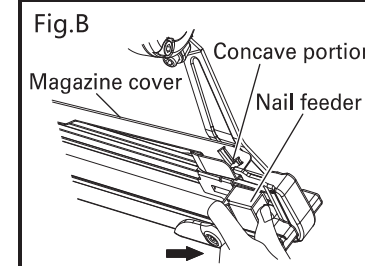
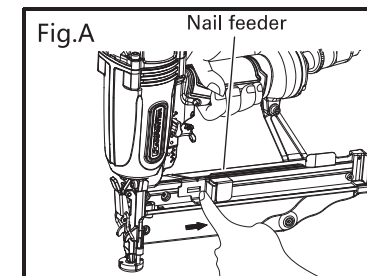
## ACCEPTABLE NAILS

Carpenter Finish Nailer drives 1" to 2-1/2" 16ga nails as following pic.

16 Gauge finish nails	Min.	Max.
		

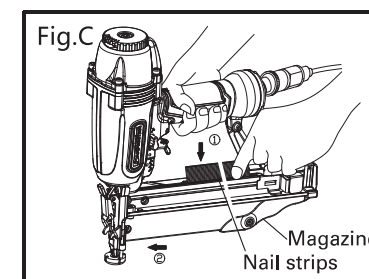
## LOADING NAILS

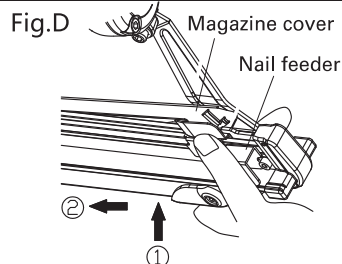
1. Pull the nail feeder back (Fig.A).



2. Pull the nail feeder until the concave portion of the magazine cover clicks (Fig.B).

3. ① Insert nail strips one by one from above the magazine.  
② Slide nails forward in the magazine (Fig.C).





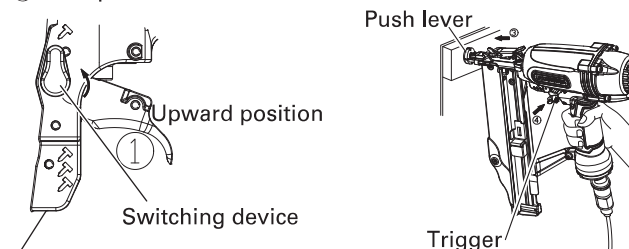
4. ① While holding the nail feeder adjust the magazine cover in place.  
 ② Slide the nail feeder slowly forward until it contacts nails. (Fig.D).

**DANGER!**

- Do not drive nails on top of other nails or with nailer at too steep an angle. Nails can ricochet and seriously injure someone.
- In order to avoid double firing or unwanted ejection of a nail due to bouncing of the nailer, do not push nailer on workpiece to avoid recoil. Recoil is necessary for proper operation of the nailer.
- Do not drive nails from both sides of a wall at the same time. Nails can be driven into and through the wall and hit a person on the opposite side.
- Never drive nails into thin boards or near corners and edges of workpiece. Nails can be driven through or away from workpiece resulting in serious or life threatening injury.
- Never use a nailer which is defective or operating abnormally.
- Never use a nailer as hammer.

**METHODS OF OPERATION**

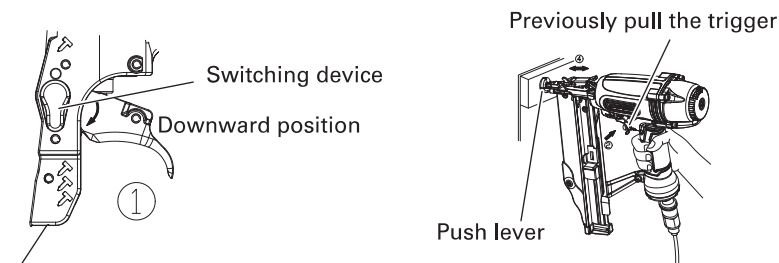
- ① Set the switching device to the upward position (to set to SINGLE SEQUENTIAL ACTUATION MECHANISM).
  - ② Position the nail outlet on the workpiece with finger off the trigger.
  - ③ Depress the push lever firmly until it is completely depressed.
  - ④ Pull the trigger to drive a nail.
  - ⑤ Remove finger from the trigger.
- To continue nailing in a separate location, move the nailer along the wood, repeating steps ② - ⑤ as required.



2. Continuous operation (Push lever fire)  
 Using CONTACT ACTUATION MECHANISM

- ① Set the switching device to the downward position (to set to CONTACT ACTUATION MECHANISM).  
 (Set the switching device to the downward position completely as shown in the diagram. Otherwise, it will not operate properly.)
- ② Pull the trigger with the Nailer off the workpiece.
- ③ Depress the push lever against the workpiece to drive a nail.
- ④ Move the Nailer along the workpiece with a bouncing motion.  
 Each depression of the push lever will drive a nail.

As soon as the desired number of nails have been driven, remove finger from the trigger.



The SINGLE SEQUENTIAL ACTUATION MECHANISM is for use where precision fastener placement is desired.

## ADJUSTING THE NAILING DEPTH

To assure that each nail penetrates to the same depth:

- ① The air pressure to the Nailer remains constant (regulator is installed and working properly),
- ② The Nailer is always held firmly against the workpiece.

1. Disconnect air hose from nailer

2a. If nails are driven too deep, turn the adjuster to the shallow side.

Adjustments are in half-turn increments.

2b. If nails are driven too shallow, turn the adjuster to the deep side.

- ③ Stop turning the adjuster when a suitable position is reached for a nailing test.

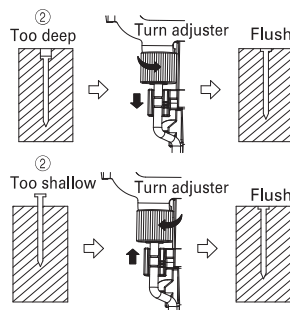
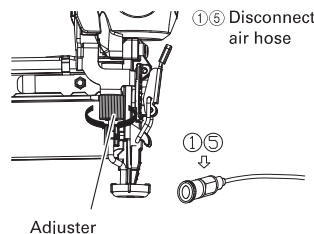
- ④ Connect the air hose.

ALWAYS WEAR SAFETY GLASSES.

Perform a nailing test.

- ⑤ DISCONNECT AIR HOSE FROM NAILER.

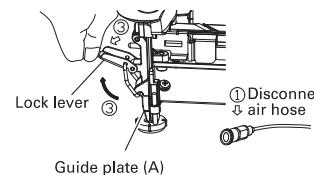
- ⑥ Choose a suitable position for the adjuster.



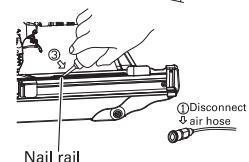
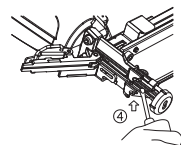
## Clearing a jammed nail

Remove a jammed nail in the following step:

- DISCONNECT AIR HOSE.
- Remove all nails.
- Release the lock lever and open guide plate (A).
- Remove the jammed nail with a slotted-head screwdriver.
- Close guide plate (A) and latch.
- In case of frequent jam, contact Carpenter.
- Clean the magazine. Remove dust which may have accumulated in the magazine.
- Lubricate the nail rail with pneumatic tool lubricant.



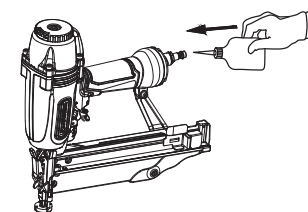
Guide plate (A)



## MAINTENANCE

MAINTENANCE REQUIRED	DESCRIPTION	TOOLS OR MATERIALS REQUIRED	MAXIMUM SERVICE INTERVAL		
			Each Use or Every 2 Hrs	Monthly	As Needed
General inspection-free movement	Trigger, spring, safety mechanism	None	X		
In-depth inspection	Worn or broken parts			X	X
Replace worn or broken parts					X
Lubrication	See below	Pneumatic tool oil	X		

- Lubrication: If the air-powered finish nailer and the compressor are not equipped with an in-line lubrication system, place up to 6 drops of pneumatic tool oil into the air inlet before each work day or after every 2 hours of continuous use, depending on the characteristics of the workpiece and type of fasteners used.



- Air-operated tools must be inspected periodically and worn or broken parts must be replaced to ensure that the tools are operating safely and efficiently.
- Inspect and replace worn or damaged O-rings, seals, etc. Tighten all screws and caps frequently in order to help prevent personal injury.
- Keep the magazine of the tool clean and free of any dirt or abrasive particles.

**Note:** Solvent sprayed on the nose to clean and free up the push lever 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.

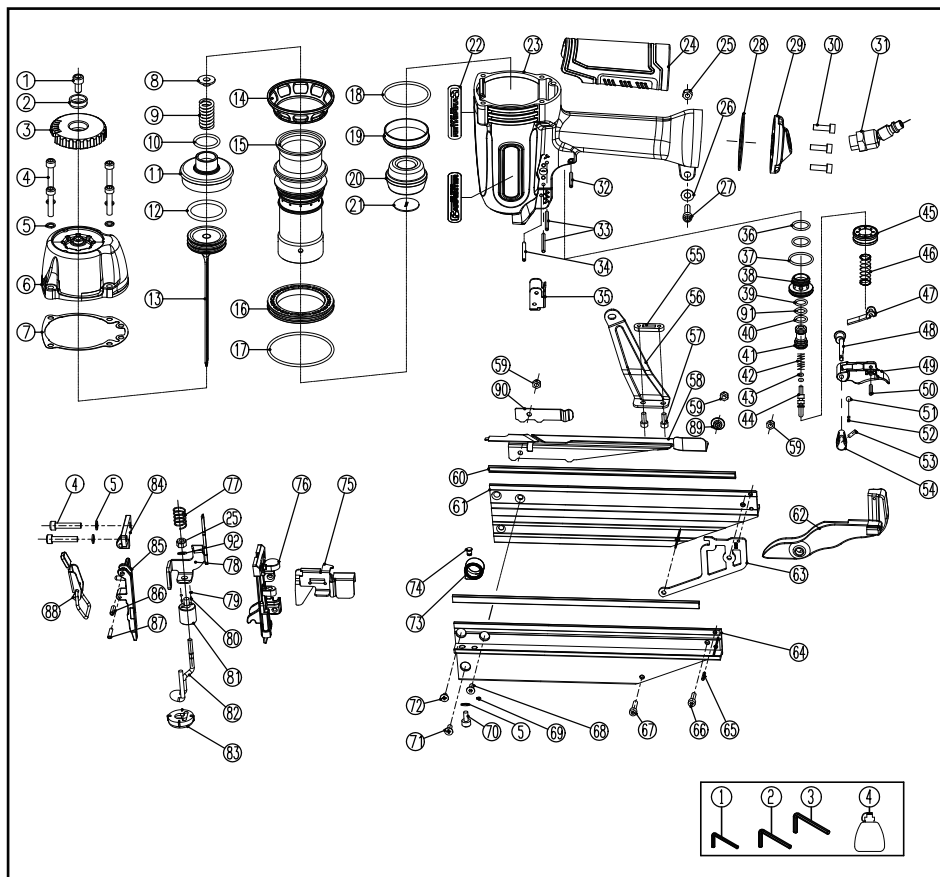
## TROUBLESHOOTING

The following chart lists common issues and solutions. Please read it carefully and follow all instructions carefully.

Disconnect the tool from the air supply before making any adjustments.

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Drain air line filter daily.	Prevent accumulation of moisture and dirt.	Open manual petcock.
Keep lubricator filled.	Keep the Nailer lubricated.	Fill with Carpenter tool lubricant.
Clean filter element — then blow air through filter in direction opposite to normal flow.	Prevent clogging of filter with dirt.	Follow manufacturer's instructions.
Clean magazine and feeder mechanism.	Prevent a jam.	Blow clean daily.
Keep push lever working properly.	Promote operator safety and efficient Nailer operation.	Blow clean daily.
Lubricate the Nailer after nailing.	Extend the Nailer life.	Supply 5 – 10 drops of lubricant into the Nailer.
Drain air compressor.	Keep the Nailer operated properly.	Open petcock on air compressor tank.

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Nailer operates, but no nail is driven.	Check for a jam. Nail feeder damaged? Ribbon spring weakened or damaged? Check for proper nails.	Clear a jam page 24. Replace nail feeder. Replace ribbon spring. Use only recommended nails.
Weak drive. Slow to cycle.	Check air pressure.  Driver blade worn? Piston O-ring worn or damaged?	Increase air pressure. (Do not exceed 120 psi (8.3 bar 8.5 kgf/cm <sup>2</sup> )) Contact Carpenter for replacement.
Drives too deep.	Check air pressure.	Reduce air pressure. (Adjust 70 – 120 psi (4.9 – 8.3bar 5 – 8.5 kgf/cm <sup>2</sup> ))
Skiping nails. Intermittent feed.	Check for proper nails.  Nail feeder damaged? Ribbon spring weakened or damaged? Piston O-ring worn or damaged?	Use only recommended nails. Replace nail feeder. Replace ribbon spring. Contact Carpenter for replacement.
Nails jam. Driven nail is bent.	Check for proper nails.  Driver blade worn?	Use only recommended nails. Contact Carpenter for replacement.
Drives properly during normal operation, but does not drive fully at faster nailing speeds.	Check inside diameter of air hose.	Use larger air hose.



No.	Description	Qty.
1	Hex bolt M6X12	1
2	Sleeve	1
3	Air exhauster	1
4	Hex bolt M5*25	6
5	Washer	7
6	Cylinder head cap	1
7	Washer	1
8	Washer	1
9	Spring	1
10	O-ring 21X2.5	1
11	Switch valve	1
12	O-ring 31.4X3.55	1
13	Main piston	1
14	Support collar upper	1
15	Cylinder	1
16	Support collar lower	1
17	O-ring 60X2.5	1
18	O-ring 42X2.5	1
19	Sealing washer	1
20	Bumper	1
21	Washer	1
22	Brand label	2
23	Tool body	1
24	Handle grip	1
25	Nut M5	2
26	Washer D=5	1
27	Hex bolt M5x20	1
28	Washer	1
29	End cover	1
30	Hex bolt M5x16	3
31	1/4 NPT18 Air inlet plug	1
32	Pin 3X25	1
33	Pin 3X32	2
34	Pin 3X30	1
35	Guide seat	1
36	O-ring 14X1.8	2
37	O-ring 20X1.8	1
38	Valve bushing	1
39	O-ring 6.1X1.8	1
40	O-ring 9X1.8	1
41	Sleeve	1
42	Switch Spring	1
43	O-ring 2.4X1.6	2
44	Trigger valve plunger	1
45	Trigger valve bushing	1
46	Trigger spring	1

No.	Description	Qty.
47	Safety shield	1
48	Shift lever	1
49	Trigger body	1
50	Pin 3X16	1
51	Steel ball DW=4	1
52	Adjustable spring	1
53	Pin 3X8	1
54	Shift knob	1
55	Spacer	1
56	Fixed seat	1
57	Hex bolt M4X10	2
58	Handle	1
59	Locked nut M4	3
60	Article guide pin	2
61	Magazine a-1	1
62	Retainer	1
63	Magazine Washer	1
64	Magazine a-2	1
65	Pin 2.5X12	1
66	Hex bolt M4X14	1
67	Hex bolt M4X16	1
68	Hex bolt M4X10	1
69	Split washer	1
70	Hex bolt M5X12	1
71	Bolt M4X10	1
72	Bolt M4X6	1
73	Ribbon spring	1
74	Shaft pin	1
75	Nail pusher	1
76	Driver head	1
77	Compression spring	1
78	Safety shelf	1
79	Steel ball DW=2	2
80	Spring	2
81	Adjustable Nut	1
82	Safety tip	1
83	Safety sleeve	1
84	Baffle	1
85	Clacking	1
86	Pin 4X12	1
87	Pin 3X20	1
88	Lock lever	1
89	Washer	1
90	Waher II	1
91	O-ring 6.4X2	1
92	Washer	1