AIR TOOLS

CARPENTER

Coil Roofing Nailer

Model No. CCN45

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

Net Weight	5.68lbs/ 2.57 kg
Dimensions	11-1/3"(H) x 4-7/12"(W) x 11-1/10"(L) (288x116x282mm)
Load Capacity	120 PCS
Operating Pressure	70 -115 psi (4.8 -7.9 bar)
Fastener Details	15º 7/8” to 1-3/4” Wire Collated Coil Roofing Nails
Driving Power	420 in./lbs at 90 psi
Air Consumption	0.042-0.046ft3 (1.5lit)/cycle at 90 psi

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.

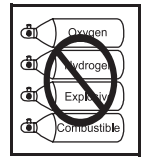
CAUTION!

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



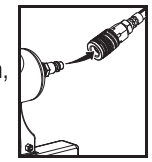
- DANGER! Potential hazard that could result in serious personal injury including possible death.
- Do not use oxygen or any other combustible or bottled gas to power air-powered tools. Failure to observe this warning can cause explosion and serious personal injury or death.
- Do not use this tool in 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.

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.

CAUTION!

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

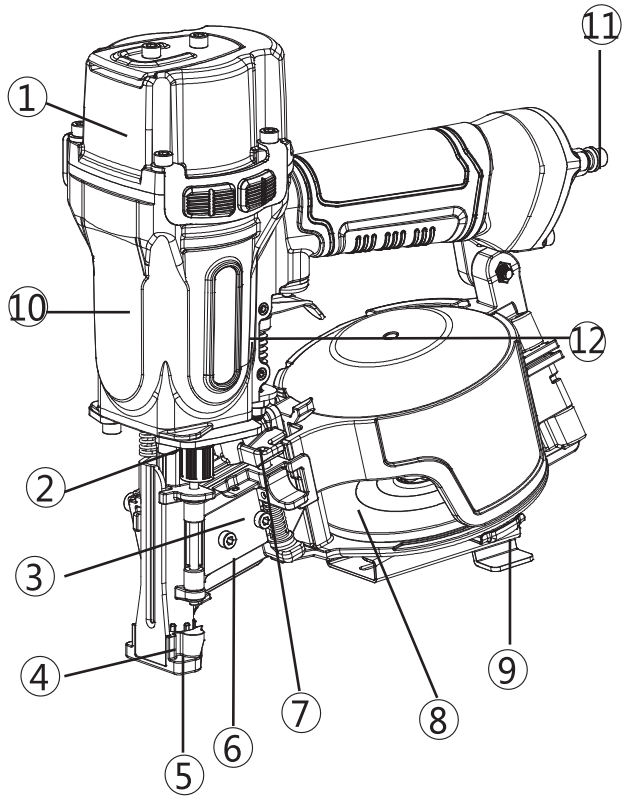


- Disconnect the tool from the air supply and turn off the compressor before performing any maintenance, when the tool is not in use, when it is being handed to another person, when it is left unattended, or when loading and changing nails. Failure to comply may result in injury or damage to equipment.
- Do not exceed the maximum or minimum pressures. Operating the tool at the wrong pressure (too low or too high) will 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.

KEY PARTS DIAGRAM

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



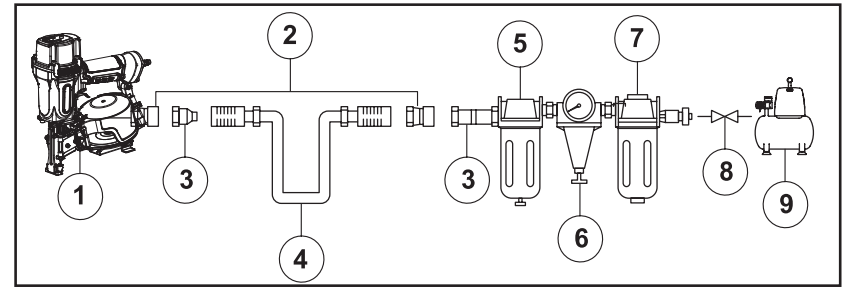
TECHNICAL INFORMATION

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 4.7 CFM @ 90 PSI to ensure the compressor can run continuously with the CARPENTER 15° Wire Collated Coil Roofing Nailer.

General use

The CARPENTER 15° Wire Collated Coil Roofing Nailer. drives 7/8" to 1-3/4" 15° Wire Collated Coil Roofing Nails. The tool is lightweight and durable, stands up to the elements and provides consistently accurate results over the life of the tool. An ideal tool for a variety of construction projects, including installation of asphalt roofing shingles and insulation boards. It also features a high-capacity side-load magazine, tool-less depth adjustment, durable construction, and more.



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

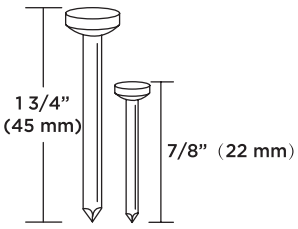
- It is recommended that a filter-regulator-lubricator be used and be located as close to the tool as possible.
- If a filter-regulator-lubricator is not installed, place up to 6 drops of compressor oil into the air inlet plug before each use.
- If a filter-regulator-lubricator is installed, keep the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

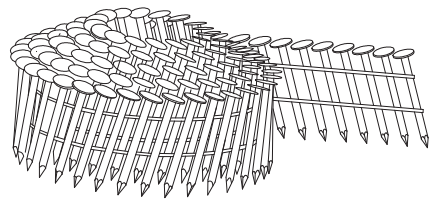
Read and follow all the safety instructions at the beginning of this manual and Inspect the air-powered nailer prior to each use in order to ensure that the proper power source is being used and verify that the tool is in proper working order.

The CARPENTER 15º Wire Collated Coil Roofing Nailer drives 7/8” to 1-3/4” 15º Wire Collated Coil Roofing Nails.

ACCEPTABLE NAILS

Length: 7/8 - 1 3/4"
Angle: 15º





Loading nails

1. Disconnect the tool (1) from the air supply (2) (Fig. A).

Fig. A

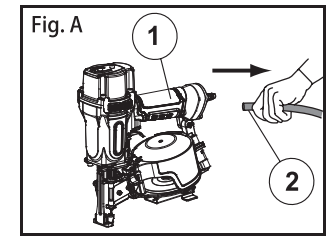
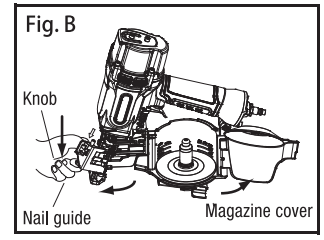


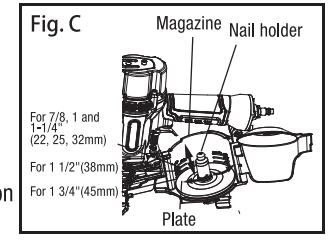
Fig. B

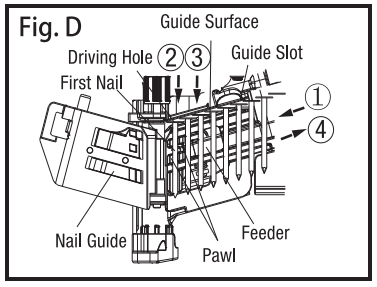


2. Grip the nail guide and knob with finger. Press the knob down, swing the nail guide open and open the magazine cover (Fig. B).

3. Adjust the position of the nail holder to correspond with the nail length. The nail will not feed smoothly if the nail holder is not correctly adjusted.
① Turn the nail holder about 90° counter-clockwise.
② Move the nail holder up and down to align the plate of the nail holder with the mark on the magazine that correspond with the length of the nails being used.
③ Turn the nail holder 90° clockwise until you hear “click”(Fig. C).

Fig. C

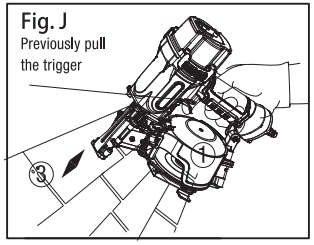




4. Place the nails in the magazine.Insert the first nail coil into the magazine opening.
   ① Uncoil enough nails to reach the driving hole.
   ② Insert the first nail into the driving hole and the second nail between the two pawls of the feeder.
   ③ Fit the nail heads in the guide slot.
   ④ Pull the nails to the right. After checking and making sure that the magazine cover is closed, hook your fingers on the nail guide and knob, turn the nail guide clockwise while pressing the knob downward, and then close the nail guide completely.
   ⑤ Lock the knob completely (Fig. D).

Method Of Operation

The Carpenter Air-powered Coiled Roofing Nailer is equipped with a push lever at the nailing point and will not operate unless the push lever is depressed (pushed upwards).



Bump fire (multiple shots)
① Pull the trigger with the nailer off the workpiece.
② Drive a nail by pressing the nailer against the workpiece to depress the push lever.
③ Drive additional nails by moving the nailer along the workpiece with a bouncing motion. Each depression of the push lever will drive a nail. When the required nails have been driven, remove finger from the trigger (Fig. J).

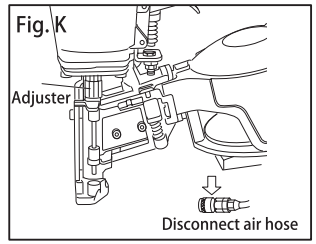
DANGER!

- 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.

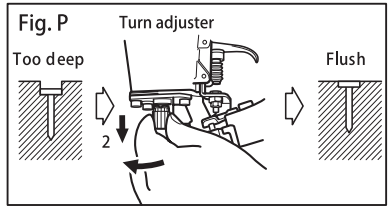
ADJUSTING THE NAILING DEPTH

To assure that each nail penetrates to the same depth, be sure that:
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. If nails are driven too deep or too shallow into the workpiece, adjust the nailing depth using the following instructions.

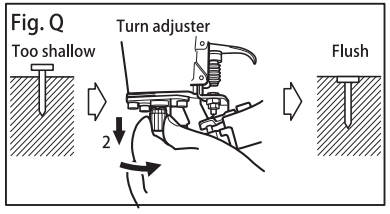
1. Disconnect air hose from nailer (Fig. K).



2a. If the nails are driven too deep, pull the adjuster downward and turn counter-clockwise (Fig. P).

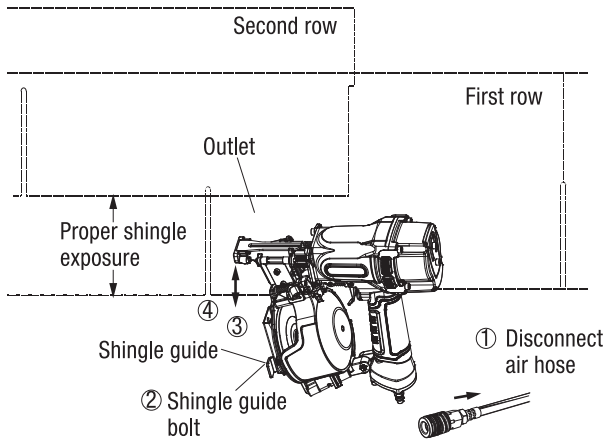


2b. If nails are driven too shallow, pull the adjuster downward and turn clockwise (Fig. Q).



When the adjuster is released it will spring back up and can be set with a click at each 1/4 rotation. The adjuster changes the nailing depth approximately 0.25 mm per 1/4 rotation.
3. Connect the air hose and perform a nailing test. ALWAYS WEAR EYE PROTECTION.
4. If additional adjustments are necessary, DISCONNECT AIR HOSE FROM NAILER and repeat step 2.

Using the single guide
The shingle guide can be used to control shingle spacing.
① Disconnect air hose from nailer.
② Loosen the shingle guide bolt with the accessory hex wrench.
③ Place the shingle guide against the bottom of the first row of shingles.
④ Adjust the distance between the outlet and the shingle guide to the proper shingle exposure by sliding the shingle guide.
⑤ Tighten the shingle guide bolt.



Clearing a jammed nail

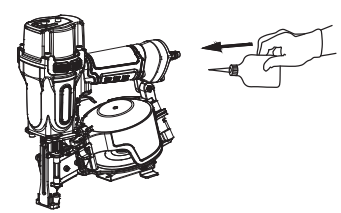
To clear a jammed nail

- Disconnect the tool from the air supply line.
- Open the nail guide and insert a rod into the outlet. Tap the rod with a hammer.
- Remove the jammed nail with a slotted screwdrive.
- Cut the deformed collated wire with shipls. Correct the deformation.
- Remove the non-jammed nails that are stored in the tool's magazine.
- Operate the magazine latch and slide the pusher back to open the magazine for checking the jammed nails.
- Use pliers or any appropriate tool to remove the jammed nails.
- Close the magazine cover and slide the pusher to its original position.
- Reload the nails into the tool magazine.
- Reconnect the air supply line to the tool's air inlet.
- Test fire 3 to 5 nails into a piece of scrap wood in order to ensure proper operation.

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 coil roofing 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.

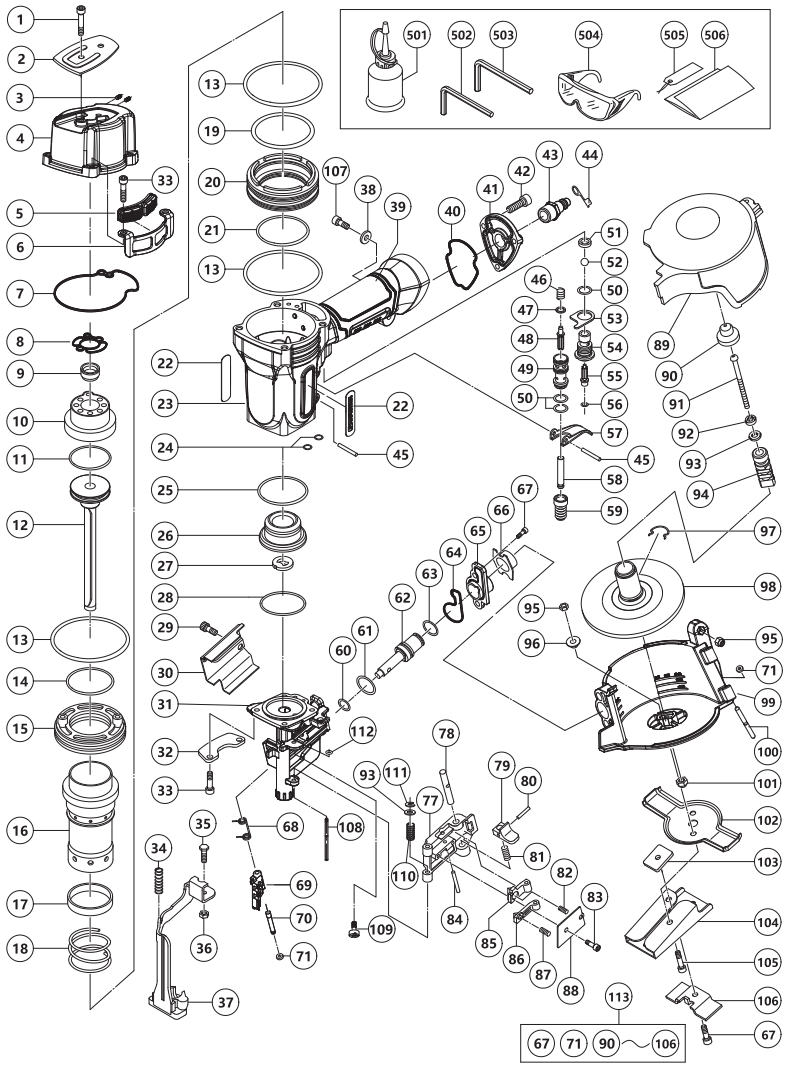
Note: Solvent sprayed on the nose to clean and free up the push lever may have the opposite effect.The solvent may soften the tar on the shingles and cause tar buildup to be accelerated.Dry operation is better.

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
Air leakage at the top of the tool or in the trigger area.	1. O-rings in the trigger valve are damaged. 2. The trigger valve heads are damaged. 3. Trigger valve stem, seal, or O-rings are damaged.	1. Inspect and replace the O-ring. 2. Inspect and replace trigger valve heads. 3. Inspect and replace the trigger valve stem, seal, or O-ring. **Have the tool serviced by a qualified service technician.**
Air leakage near the bottom of the tool.	1. The screws are loose. 2. The O-rings or the bumper are worn or damaged.	1. Tighten the screws. 2. Inspect and replace the O-rings or the bumper. **Have the tool serviced by a qualified service technician.**
Air leakage between the bottom and the cylinder cap.	1. The screws are loose. 2. The O-rings or the seals are worn or damaged.	1. Tighten the screws. 2. Inspect and replace the O-rings or the seals. **Have the tool serviced by a qualified service technician.**
The nails are being driven too deep.	1. The bumper is worn. 2. The air pressure is too high. 3. The depth adjustment knob is not adjusted properly.	1. Replace the bumper. 2. Adjust the air pressure. 3. Adjust the depth setting by turning the depth adjustment knob counter-clockwise (see section "Adjusting nail depth" for more detailed instructions).

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
The tool does not operate properly, it does not drive the nails or operates sluggishly.	1. The air supply is inadequate. 2. Lubrication is inadequate. 3. The O-rings or seals are worn or damaged. 4. The exhaust deflector in the cylinder head is blocked.	1. Verify that the air supply is adequate. 2. Pour up to 6 drops of oil into the air inlet. 3. Inspect and replace O-rings or seals. 4. Replace the damaged internal parts. **Have the tool serviced by a qualified service technician.**
The tool skips nails.	1. The bumper is worn or the spring is damaged. 2. There is dirt in the front plate. 3. Nails cannot move freely in the magazine due to dirt or wear. 4. The O-ring on the piston is worn or dry or lubrication is insufficient. 5. The cylinder cover seal is leaking.	1. Replace the bumper or spring. 2. Clean the drive channel on the front plate. 3. Clean the magazine. 4. Replace the O-ring. 5. Replace the sealing washer. **Have the tool serviced by a qualified service technician.**
The tool jams.	1. Improper nails are used, or nails are damaged. 2. The driver guide is damaged or worn. 3. The magazine screw is loose. 4. There is dirt in magazine.	1. Use proper nails. (see section "Clearing a jammed nail.") 2. Inspect and replace the driver. 3. Tighten the magazine. 4. Open and clean the magazine.
Air exhaust is being directed towards the operator.	The direction of the exhaust deflector requires adjustment.	Direct the exhaust deflector away from the operator.



No.	Description	Qty.
1	Hex. Socket HD. Bolt M5x30	2
2	Top Cover	1
3	Hex. Socket HD. Bolt M5x8	2
4	Exhaust Cover	1
5	Protector	2
6	Body Guard	2
7	Gasket(F)	1
8	Gasket(G)	1
9	Exhaust Valve	1
10	Head Cap	1

No.	Description	Qty.
11	Cylinder O-ring 30.5X3.5	1
12	Piston(H)	1
13	O-ring 65X2	3
14	O-ring 41.5X2.4	1
15	Cylinder Plate	1
16	Cylinder	1
17	Cylinder Ring	1
18	Cylinder Spring	1
19	O-ring 56X2.4	1
20	Cylinder Guide	1

No.	Description	Qty.
21	O-ring 47X2.4	1
22	label	2
23	Body	1
24	O-ring 5.15X1.5	2
25	O-ring 43.5X2.65	1
26	Piston Bumper	1
27	Bumper Sheet	1
28	O-ring 41X1.6	1
29	Hex.Socket HD.Bolt M5x8	2
30	Guard	1
31	Nose	1
32	Nose Guard	2
33	Hex.Socket HD.Bolt M5X25	9
34	Spring	1
35	Safety Bolt M5X16	1
36	Nut M5	1
37	Pushing Lever	1
38	Washer	1
39	Grip Rubber	1
40	Gap washer	1
41	Cap	1
42	Hex.Socket HD.Bolt M5X20	3
43	Air inlet plug 3/8"	1
44	Dust Cap	1
45	Roll Pin D3x30	2
46	Plunger Spring	1
47	O-ring 3.55X2	1
48	Plunger (A)	1
49	Valve Bushing	1
50	O-ring 11.8X1.5	3
51	Valve Packing	1
52	Urethane Ball	1
53	Valve Plate	1
54	Trigger Valve Bushing	1
55	Trigger Plunger	1
56	O-ring 2.8X1.8	1
57	Trigger	1
58	Plunger(B)	1
59	Valve Rubber Cover	1
60	O-ring 8.75X1.8	1
61	Feed Piston O-ring	1
62	Feed Piston	1
63	O-ring 11.2X1.8	1
64	Gasket(E)	1
65	Feed Piston Cover	1
66	Magazine Bushing	1
67	Hex. Socket HD.Bolt M5x10	3
68	Feeder Spring	1

No.	Description	Qty.
69	Feeder (A)	1
70	Feeder Shaft	1
71	Feeder Shaft Ring	2
77	Nail Guide	1
78	Lock Shaft	1
79	Guide Lock	1
80	Roll Pin D3x10	1
81	Spring	1
82	Main Stopper Spring	1
83	Hex. Socket HD.Bolt M4x6(10pcs.)	2
84	Roll Pin D3x28(10pcs.)	1
85	Main Nail Stopper	1
86	Nail Stopper	1
87	Sub Stopper Spring	1
88	Nail Guide Cover	1
89	Magazine Cover	1
90	Holder Cap	1
91	Machine screw M4x50	1
92	Spring Washer M4	1
93	Washer M4	1
94	Holder Shaft	1
95	U-Nut M5	3
96	Sleeve	2
97	Ratchet Spring	1
98	Nail Holder	1
99	Magazine	1
100	Pin	1
101	Nylon Nut M4	1
102	Magazine Guard	1
103	Plate Nut	1
104	Guide Base	1
105	Hex.Socket HD.Bolt M5x14	2
106	Guide Block	1
107	Hex.Socket HD.Bolt M5x25	1
108	Movable cover plate shaft pin A	1
109	Regulating screw	1
110	Pressed Spring	1
111	Split washer	1
112	O-ring 3X1.8	1
113	Magazine set	1
Standard accessory		
501	Oil pot	1
502	Hex M5/4mm	1
503	Hex M4/3mm	1
504	Glasses	1
505	hang tag	1
506	Manual	1