CENTRAL PNEUMATIC®

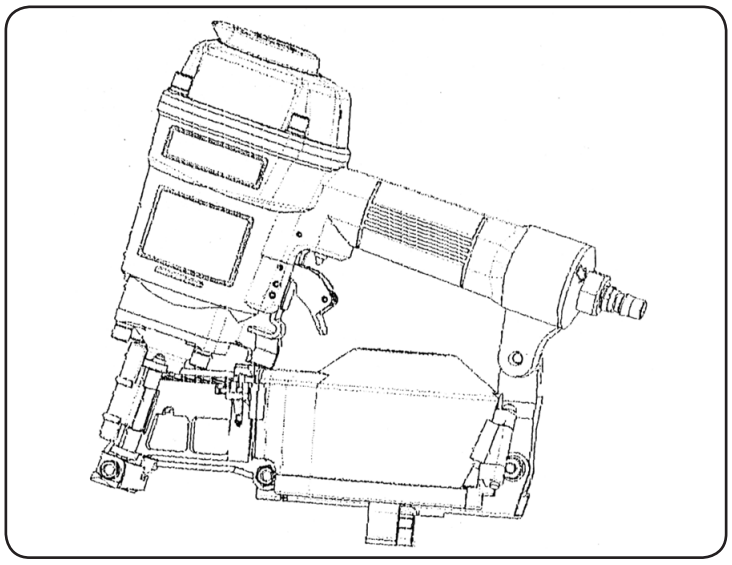
Professional

COIL ROOFING NAILER

3/4" TO 1-3/4" FASTENER LENGTH CAPACITY

Models 92917 93253

ASSEMBLY AND OPERATING INSTRUCTIONS



Distributed Exclusively by

HARBOR FREIGHT TOOLS®

3491 Mission Oaks Blvd., Camarillo, CA 93011
Visit our Web site at: http://www.harborfreight.com

**TO PREVENT SERIOUS INJURY,
READ AND UNDERSTAND ALL WARNINGS
AND INSTRUCTIONS BEFORE USE.**

For technical questions or replacement parts, please call 1-800-444-3353.

Manual Revised 05/06

Specifications

	92917	93253
Unit Weight	8 lb.	6 lb.
Housing Material	Aluminum Alloy	Magnesium
Fastener Length Capacity	3/4” to 1-3/4” Long	
Fastener Thickness	0.12” Diameter (Approximately)	
Magazine Capacity	120 Nails	
Operating PSI	70 to 100	
Air Consumption	2.5 CFM @ 90 PSI	
Triggering Type	Full-Sequential Safety Mechanism	
Accessories	5 mm Hex Wrench, Pneumatic Tool Oil, Coil of 120 Nails, Carrying Case	5 mm Hex Wrench, Pneumatic Tool Oil

Save This Manual

You will need this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures, parts list and assembly diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep this manual and invoice in a safe and dry place for future reference.

Safety Warnings and Precautions

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

Read all instructions before using this tool!

1. **Keep work area clean.** Cluttered areas invite injuries.

2. **Observe work area conditions.** Do not use machines or power tools in damp or wet locations. Do not expose to rain. Keep work area well lit. Do not use electrically powered tools in the presence of flammable gases or liquids.

3. **Keep children away.** Children must never be allowed in the work area. Do not let them handle machines, tools, extension cords, or air hoses.

4. **Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.

5. **Use the right tool for the job.** Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this tool was designed. It will do the job better and more safely at the rate for which

it was intended. Do not modify this tool and do not use this tool for a purpose for which it was not intended.

6. **Dress properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically nonconductive clothes and nonskid foot wear are recommended when working. Wear restrictive hair covering to contain long hair.

7. **Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across running machines or air hoses.

8.  **Use eye and ear protection.** Always wear ANSI-approved impact safety goggles and appropriate hearing protection. Wear a full face shield if you are producing metal filings or wood chips. Wear a NIOSH-approved dust mask or respirator when working around metal, wood, and chemical dusts and mists. Other people in the work area must also wear ANSI-approved impact safety goggles.

9. **Maintain tools with care.** Keep tools clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords and air hoses periodically and, if damaged, have them repaired by a qualified technician. The handle must be kept clean, dry, and free from oil and grease at all times. Do not operate a tool if any portion of the tool's operating controls are inoperable, disconnected, altered or not working properly.

10. **Disconnect Air Hose and release any built-up air pressure.** Never service the Nailer, clear jams, or disassemble with the air hose attached. Always release any built-up air even after disconnecting hose. Disconnect the Nailer when not in use.

11. **Remove adjusting keys and wrenches.** Check that keys and adjusting wrenches are removed from the tool or machine work surface before attaching to an air source.

12. **Avoid unintentional starting.** Be sure the trigger is in the Off position when not in use and before plugging in. Do not carry any tool with your finger on the trigger, whether it is attached to an air source or not. Do not point the tool towards yourself or anyone whether it contains fasteners or not.

13. **Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.

14. **Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician. Do not use the tool if the trigger does not operate properly.

15. **Guard against electric shock.** Prevent body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerator enclosures.

16. **Replacement parts and accessories.** This product is to be repaired and serviced only by a qualified technician. When this product is serviced, only identical replacement parts should be used. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Harbor Freight Tools.

17. **Do not operate tool if under the influence of alcohol or drugs.** Read warning labels if taking prescription medicine to determine if your judgement or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.

18. **Use proper size and type extension cord.** If an extension cord is required for the air compressor, it must be of the proper size and type to supply the correct current to the compressor without heating up. Otherwise, the extension cord could melt and catch fire, or cause electrical damage to the tool. Check your air compressor's manual for the appropriate size cord. It is also possible that the use of an extension cord may cause your circuit breaker to trip or your panel fuse to break. If this happens, either use the compressor without an extension cord or find a larger amperage circuit to use.

19. **Maintenance.** The maintenance outlined in the maintenance section should be performed regularly. For your safety, this product should be serviced or repaired regularly only by a qualified technician.

20. **Compressed air only.** Never use combustible gas as a power source.

21.  **Do not load nails with the trigger or safety depressed.** Unintentional firing may occur. Do not load nails when the air hose is connected to the tool. Always assume the tool contains fasteners.

22. **Disconnect air supply before loading the Nailer.** Before reloading (or making any adjustments to) the Nailer, make sure the compressed air is disconnected.

23. **Fire fasteners into an appropriate work surface only.** Do not attempt to fire fasteners into surfaces too hard to penetrate. Do not drive fasteners on top of other fasteners, or at too steep an angle. Fasteners can ricochet causing personal injury. Never fire the Nailer into the air, or point it toward yourself or another person. Always wear ANSI approved safety goggles during use, maintenance, and reloading.

24. **Do not fire fasteners too close to the edge of a workpiece.** They may split the workpiece and fly free, causing personal injury.

25. **Take caution, as some woods contain preservatives such as copper chromium arsenate (CCA) which can be toxic.** When stapling or nailing these materials extra care should be taken to avoid inhalation and minimize skin contact.

26. **WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contain chemicals known (to the State of California) to cause cancer, birth defects, or other reproductive harm. Some examples of these chemicals are:**
***Lead from lead-based paints**
***Crystalline silica from bricks and cement and other masonry products**
***Arsenic and chromium from chemically treated lumber.**
(California Health & Safety Code § 25249.5, *et seq.*)

27. **Stay within air pressure capacity.** Never operate the Nailer above 100 PSI.

28. **Hold tool away from head and body.** During operation the Nailer may kick back causing injury.

29. **Transport Nailer safely.** Always disconnect air supply when moving the tool in the workplace. Carry the tool by the handle to avoid contact with the trigger.

30. **Avoid working alone.** If an accident happens, an assistant can bring help.

Note: Performance of the compressor (if powered by line voltage) may vary depending on variations in local line voltage. Extension cord usage may also affect the tool performance.

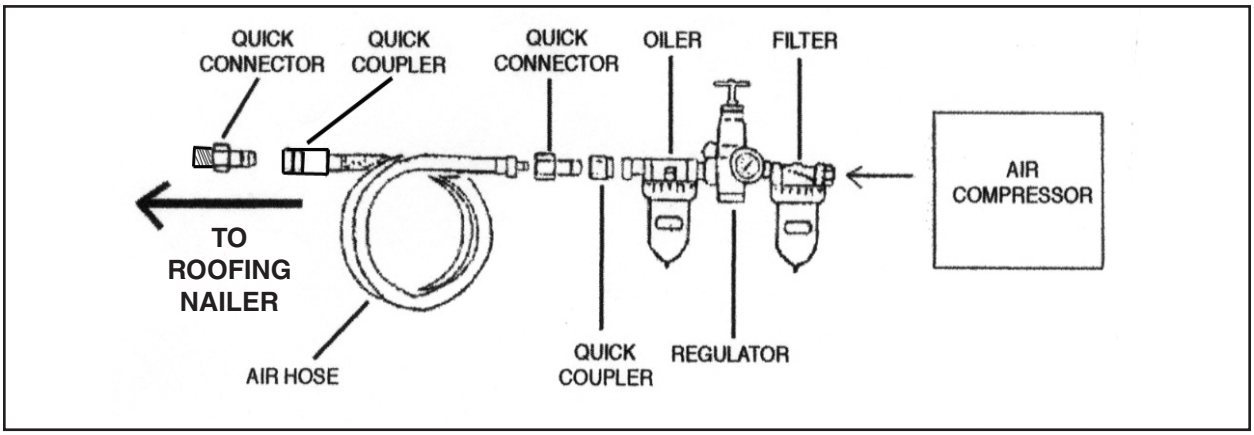
Warning: The warnings, cautions, and instructions discussed in this instruction

Unpacking

When unpacking, check to make sure all parts shown in the Parts List on page 13 are included. If any parts are missing or broken, please call Harbor Freight Tools at the number on the cover of this manual as soon as possible.

Operation

For best service, you should incorporate an oiler, regulator, and inline filter, as shown in the diagram below. Hoses, couplers, oilers, regulators, and filters are all available at Harbor Freight Tools.



Note: To connect this tool, we recommend you use Air Plug (83, not included). For smoother operation and to extend the life-span of the tool, put 3-5 drops of pneumatic tool oil in the attached Air Plug (83) before each use.

Testing the Full Sequential Safety Trip Mechanism

Warning: Even though the nailer should be empty during this procedure, ALWAYS point the nailer at a piece of scrap wood when testing.

1. Make sure the tool is disconnected from the air supply.
2. Completely empty the Nail Canister (90) of nails.
3. The Nailer should not fire if the nose is not depressed against the workpiece.
4. Make sure the Trigger (73) and nose move freely, without sticking - see the illustration on the following page.

5. Connect the air supply to the tool at the Air Plug (83). Set the regulator at the recommended **70 PSI** to **100 PSI**, and set not to go over the maximum 100 PSI.

6. Test the tool by depressing the nose against the workpiece without pulling the Trigger (73). **The Tool must not cycle (fire).** If it cycles (fires), stop immediately and have it repaired by a qualified service technician.

7. Hold the tool away or off of the workpiece. The nose of the tool should return to its original position. Squeeze the Trigger (73). **The tool should not cycle (fire).** If the tool fires, stop immediately and have it repaired by a qualified service technician.

8. Depress the nose against the workpiece and squeeze the Trigger (73). **The tool must cycle (fire) only once.** Release the Trigger and squeeze it again. **The tool must not cycle (fire).** With the Trigger held, carefully lift the nailer and press it against the workpiece again. **The tool must not cycle (fire).** If it fails to perform in the manner explained in bold, have it repaired by a qualified service technician.

Loading Coil Nails

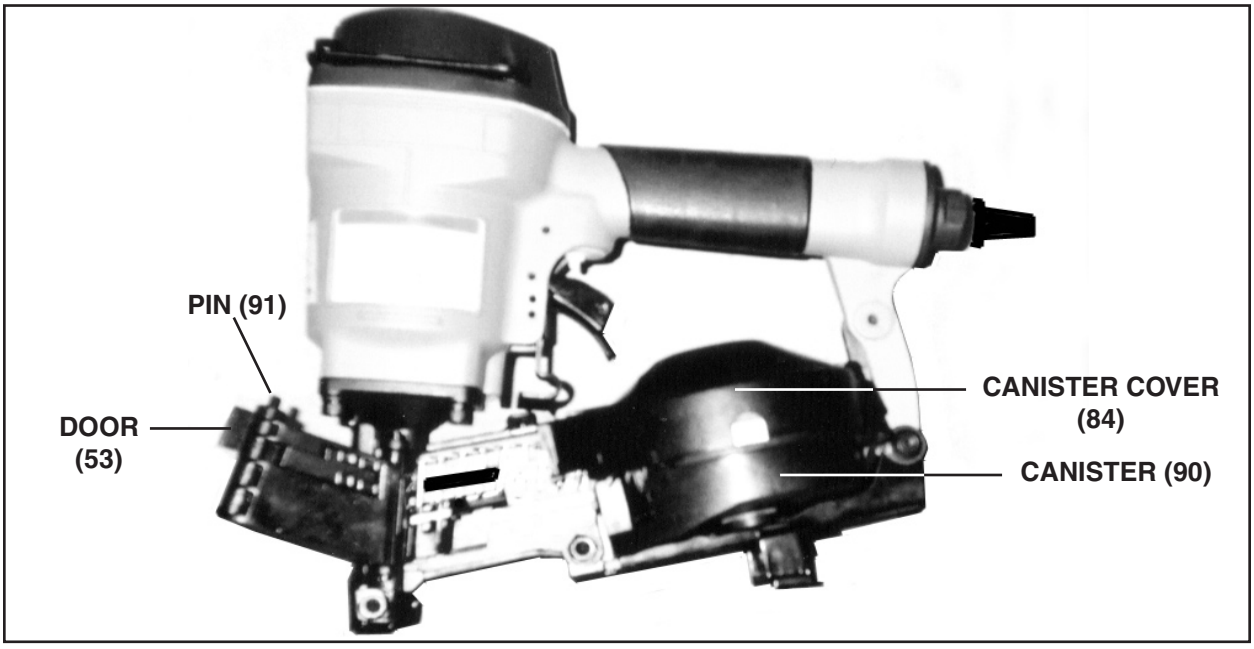
ALWAYS WEAR ANSI-APPROVED IMPACT SAFETY GOGGLES WHEN RELOADING OR DOING ANY OTHER MAINTENANCE ON THIS TOOL. Other people in the work area must also wear ANSI-approved impact safety goggles.

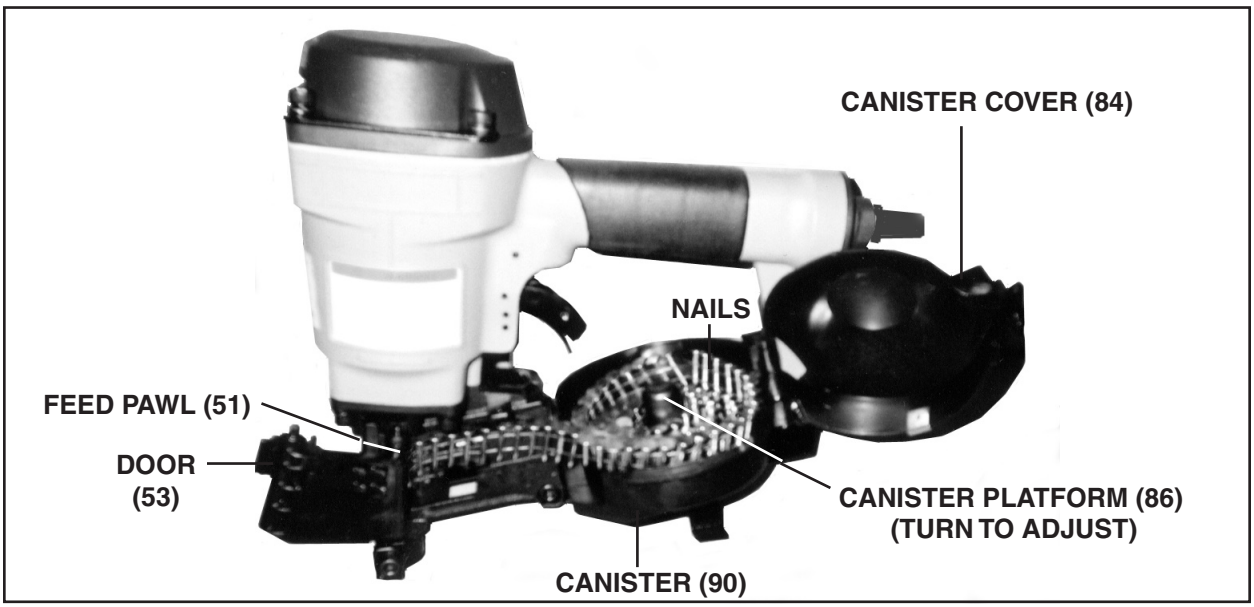
Warning! Make sure the Nailer is not attached to the air hose whenever loading the tool.

1. To open the Canister (90), press down on the Pin (91) and swing the Door (53) and Canister Cover (84) open.

2. Check the Canister Platform (86) inside the Canister (90). The Platform can be adjusted up and down to use various lengths of nails from 3/4" to 1-3/4":

   A. <u>3/4" Long Nails</u>
   (Use top setting).
   B. <u>Between 3/4" and 1-3/4" Long Nails</u>
   (Use middle setting).
   C. <u>1-3/4" Long Nails</u>
   (Use bottom setting).





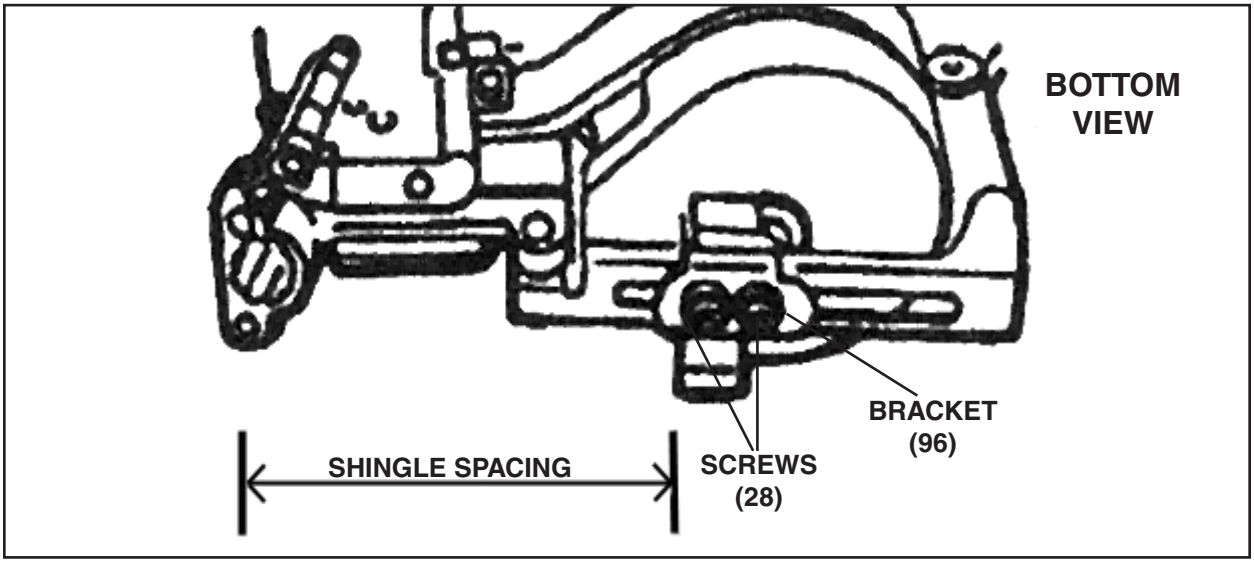
3. Place a coil of Nails (99) around the Canister Platform (86) in the Nail Canister (90).

4. Uncoil enough nails to reach the Feed Pawl (51). Place the *second* nail on the coil between the teeth of the Feed Pawl, making sure the nail head fits in the slot in the upper portion of the Feed Pawl.

5. Swing the Canister Cover (84) closed. Then, close the Door (53). Make sure the Door closes securely. If it does not engage, the nail head is not in the slot in the upper portion of the Feed Pawl (51).

To Adjust The Shingle Gauge:

The Bracket (96) controls roof shingle spacing. To adjust the Bracket to work with a particular width of shingles, use the accessory Hex Wrench (97) to loosen the two Screws (28) on the Bracket. Slide the Bracket forward or backward to the desired spacing. Then, retighten the two Screws.



Operating the Nailer

1. Attach the Nailer to the air supply at the Air Plug (83). Start your compressor and check the pressure making sure it is set at the recommended 70-100 PSI and not to go over the maximum 100 PSI.

2. To fire, place the nose of the Nailer on the workpiece. The Nailer should not fire if the nose is not depressed. Once depressed, gently and briefly squeeze the Trigger (73) once. **Do not fire repeatedly.** Nails could bounce off of one another, damaging the workpiece or causing PERSONAL INJURY.

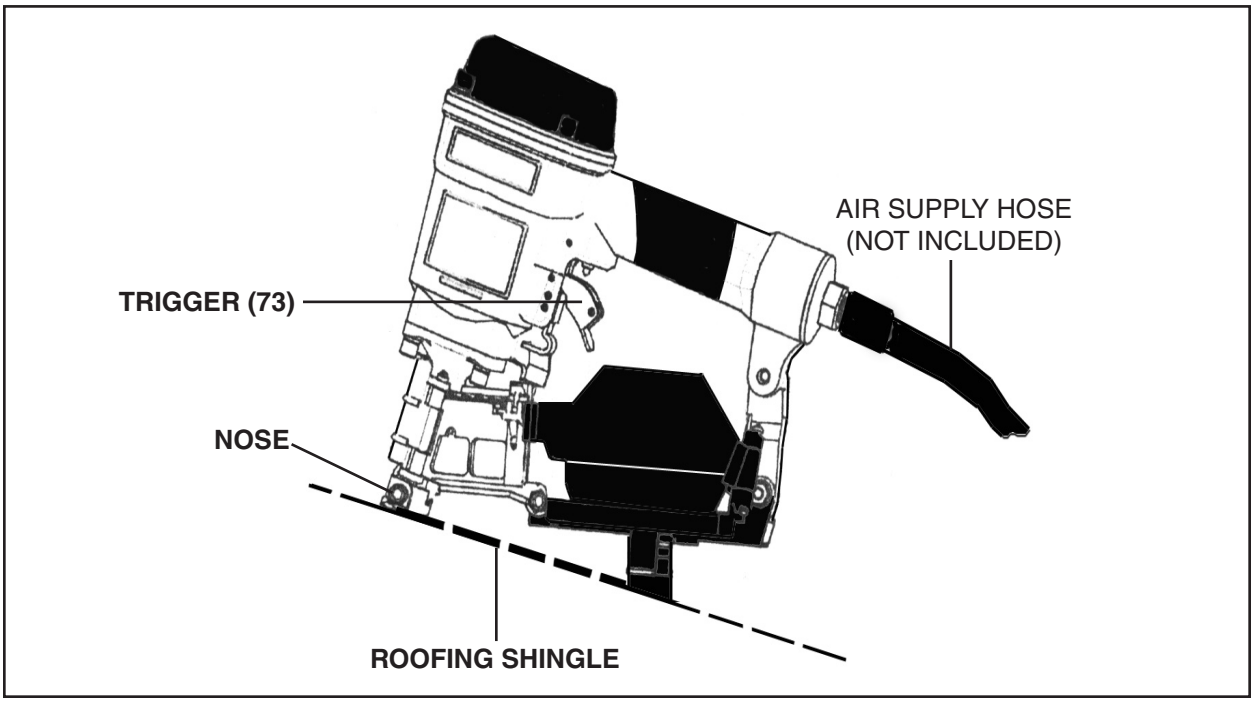
3. **Caution:** When the Trigger (73) is depressed, the Roofing Nailer will fire if the Nose of the tool comes in contact with anything.

4. Do not press the Nose of the Roofing Nailer against the work surface with extra force. Allow the tool to do the work. Always allow the tool to recoil off the workpiece.

5. **Caution:** While working on roofs, tar and dirt may build up on the Nose of the Roofing Nailer. This can prevent normal operation. Remove buildup with a nonflammable solvent. NEVER use gasoline or other flammable solvents. Do not immerse the Roofing Nailer in an approved solvent beyond the height of the nail heads, to avoid getting the solvent into the drive cylinder of the tool. Make sure to dry off the Roofing Nailer before use. Any oil film left after cleanup will accelerate tar buildup.

6. When finished using the Roofing Nailer, always disconnect the tool from its compressed air supply. Empty the Nail Canister (90) completely of nails. Attempt to fire the Roofing Nailer into a piece of scrap wood to ensure it is disconnected and is incapable of firing any nails. **Always leave the Nail Canister open during this procedure. The Canister is spring loaded and may cause parts or a nail to fly out of the Roofing Nailer.**

7. Make sure to store the Roofing Nailer in its accessory Carrying Case and in a clean, dry, safe location out of reach of children.



Anytime *any* maintenance or repairs are done (including clearing jams), FIRST:

1. Disconnect the Nailer from the air hose.
2. Empty the **Nail Canister (90)** completely.
3. Attempt to fire the Nailer into a piece of scrap wood to ensure that it is disconnected and is incapable of firing any nails.
4. **Always leave the Nail Canister (90) open during maintenance. The Canister is spring-loaded and may cause parts or a nail to fly out of the Nailer.**

Clearing Jams

1. Occasionally a nail may become jammed in the firing mechanism of the Roofing Nailer, making the tool inoperable.

2. To remove a jammed nail, disconnect the Roofing Nailer from its compressed air supply. Empty the Nail Canister (90) completely of nails. Attempt to fire the Roofing Nailer into a piece of scrap wood to ensure it is disconnected and is incapable of firing any nails. Always leave the Canister open during this procedure. The Nail Canister is spring loaded and may cause parts or a nail to fly out of the Roofing Nailer.

3. Use a pair of needle nose pliers (not included) to remove the jammed nail (usually from the Feed Pawl (51) area). Replace the coil of nails into the Roofing Nailer. Close the Canister Cover (84) and Door (53) securely. Then, reconnect the air supply hose to the tool.

Anytime *any* maintenance or repairs are done, FIRST:

1. Disconnect the Nailer from the air hose.
2. Empty the **Nail Canister (90)** completely.
3. Attempt to fire the Nailer into a piece of scrap wood to ensure that it is disconnected and is incapable of firing any nails.
4. **Always leave the Nail Canister (90) open during maintenance. The Canister is spring-loaded and may cause parts or a nail to fly out of the Nailer.**

Inspection, Maintenance, and Cleaning

1. Inspect the Nailer frequently and lubricate periodically with Pneumatic tool oil, then wipe dry. Do not use detergent oil or additives as these lubricants will cause accelerated wear to the internal seals.

2. Inspect the air supply filter, if present, before each use and clean or replace as necessary. Dirt and water in the air supply filter are major causes of pneumatic tool wear. Use a filter/oiler for better performance and longer tool life. The filter must have adequate flow capacity for the specific application.

3. Store the unit in a clean and dry location.

4. **All maintenance, service, or repairs not listed in this manual are only to be attempted by a qualified technician**.

Please Read the Following Carefully

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

PARTS LIST

When ordering parts, specify which model number they are for.

Part	Description
1	Screw
2	Exhaust Cover
3	Screw
4	Screw
5	Cap
6	Packing
7	Ring
8	Head Cap
9	Compression Spring
10	O-Ring
11	Head Valve
12	O-Ring
13	Cylinder Ring
14	Screw
15	Washer
16	Piston Head
17	O-Ring
18	Driver Blade
19	Screw
20	Cylinder Plate
21	O-Ring
22	Cylinder
23	O-Ring
24	Cylinder Ring
25	O-Ring
26	Bumper
27	Push Lever
28	Screw
29	Flake
30	Spring
31	Cover Plate
32	Nose (Bottom Plate)
33	Feed Pawl (A)
34	Pin Guide
35	Spring

Part	Description
36	Feed Piston
37	Spring Guide
38	O-Ring
39	O-Ring
40	Spring
41	Spring
42	Spring Guide
43	Piston Stopper
44	Piston
45	Ring
46	Pin Guide
47	Ring
48	Pin
49	Screw
50	Screw
51	Feed Pawl (B)
52	Spring
53	Door
54	Pin
55	Pin
56	Pin Guide
57	Spring
58	Latch Door
59	Pin
60	Trigger Valve
61	O-Ring
62	O-Ring
63	Trigger Valve Cover
64	O-Ring
65	Trigger Plunger
66	Spring
67	O-Ring
68	O-Ring
69	Valve Bushing
70	Flake

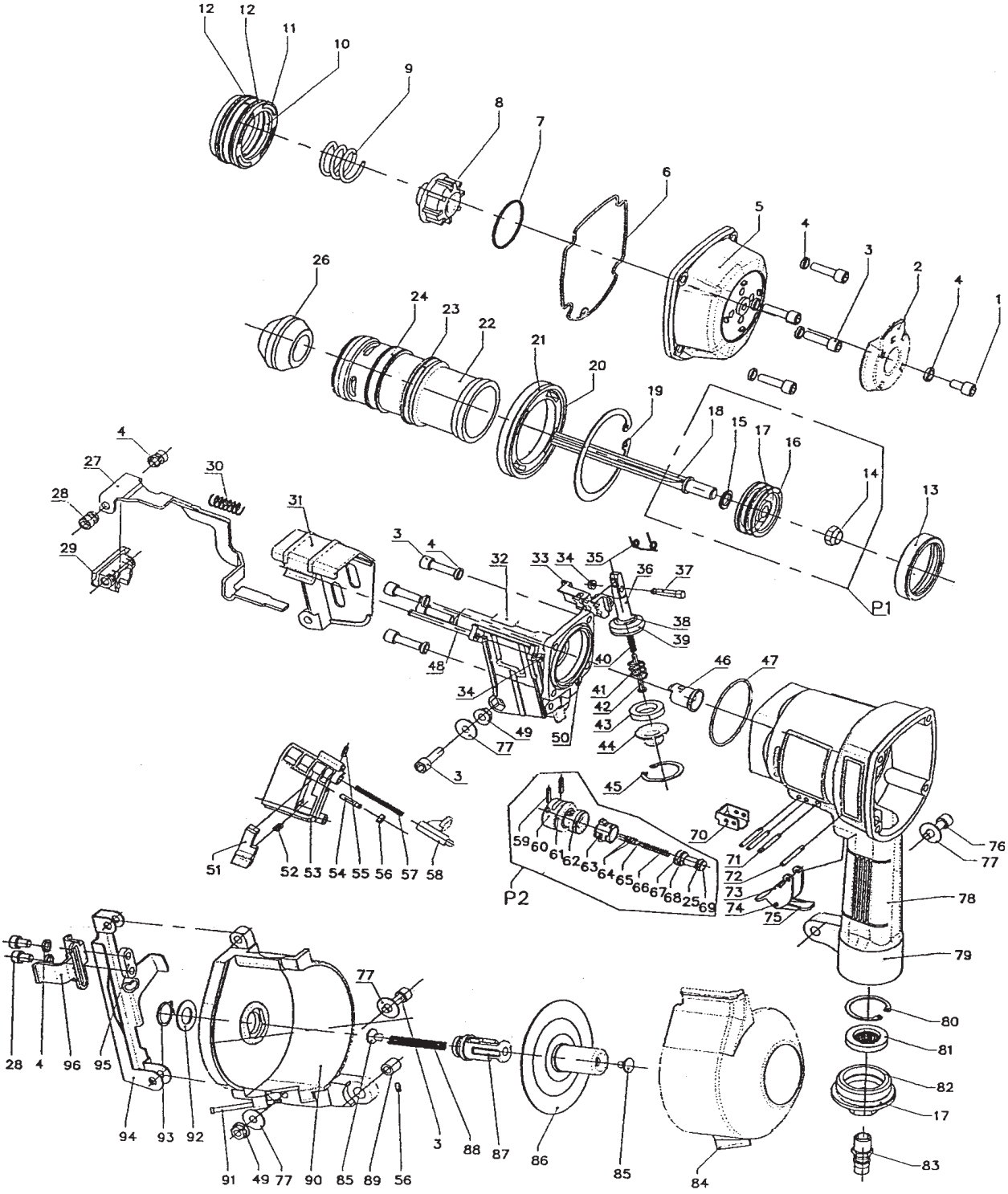
Part	Description
71	Pin
72	Pin
73	Trigger (A)
74	Pin
75	Trigger (B)
76	Screw
77	Screw
78	Grip Handle
79	Body
80	Spring
81	Filter Unit
82	End Cap
83	Air Plug (not included)
84	Canister Cover
85	Receiver (B)
86	Canister Platform
87	Canister Guide
88	Spring
89	Pin Guide
90	Canister
91	Pin
92	Ring
93	Screw
94	Platform Canister
95	Trigger
96	Bracket
97	5 mm Hex Wrench*
98	Pneumatic Tool Oil*
99	120 Piece Nail Coil*
100	Carrying Case*
P1	Driver Ass'y Includes parts 14-18
P2	Trigger Ass'y Includes parts 25 and 59-69

*Not shown on diagram

NOTE:
Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

REV 11/05

ASSEMBLY DIAGRAM



NOTE:
Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.