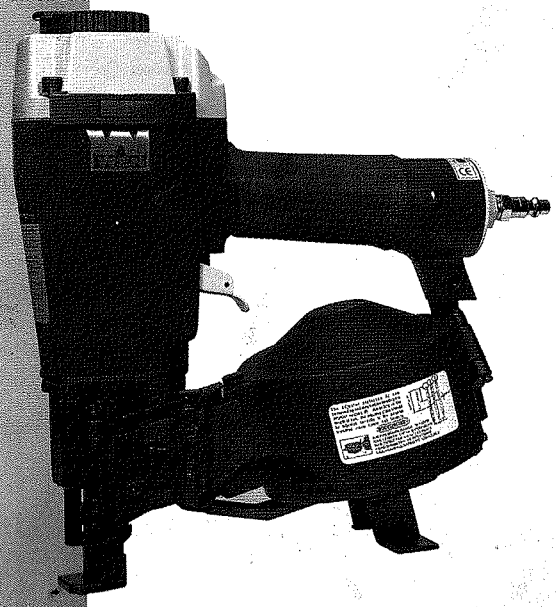
Instruction manual

MAGNESIUM
COIL ROOFING NAILER

MODEL 61782



IMPORTANT

Please read and follow all instructions and warnings in this manual. Make certain that others who use this tool understand the instructions and warnings before use.

For Questions and/or Problems, call our Customer Service Dept. 888-315-3080 M-F 8-5 Central Time

DO NOT RETURN TO STORE

IMPORTANT SAFETY INSTRUCTIONS

WARNING: When using pneumatic tools, always follow basic safety precautions to reduce the risk of personal injury.

READ AND FOLLOW ALL INSTRUCTIONS.

This tool is designed for specific applications. Dot not modify this tool and/or use it for any applications outside the design parameters. Modifying the tool and using it in a manner not intended can be dangerous and may cause personal injury. If you have any questions on application, please call our Customer Service toll free number, 888-315-3080 M-F, 8:00AM to5:00PM CST.

1. KEEP WORKING AREA CLEAN. Cluttered areas invite injuries.

2. DON'T ALLOW CHILDREN ON TO THE WORK SITE. Don't let children play with tools.

3. USE SAFETY GLASSES. To prevent eye injuries, the tool operator and all persons in the working area must wear safety glasses with permanently attached, rigid, plastic side shields. These safety glasses must conform to ANSI Z87.1 requirements (approved glasses have "Z87" printed or stamped on them)(Fig.1).

4.USE EAR PROTECTION. The working area may be exposed to high noise levels that can lead to hearing damaged.

5.ONLY USE CLEAN, dry and regulated compressed air at 70 to 120 PSI, (4.8 to 8.3 BAR)(Fig. 2).

6.DO NOT CONNECT TOOL to Pressure that potentially exceeds 180PSI (12.3 BAR).

7.USE ONLY AN AIR HOSE that is rated for 150% of the maximum system pressure. Use a 3/8" ID hose to connect the nailer to the compressor.

Fig.1

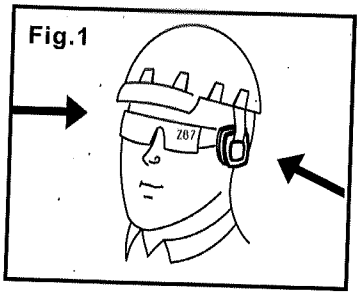


Fig.2

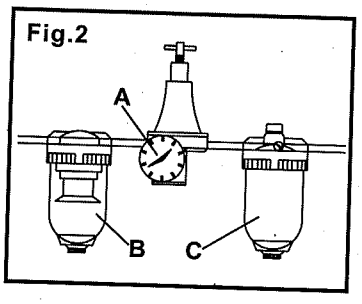
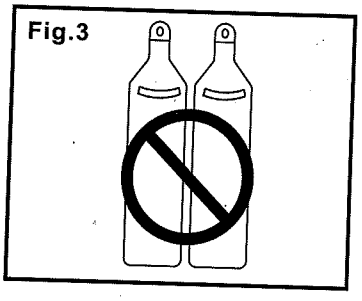


Fig.3



8. NEVER USE OXYGEN, CARBON DIOXIDE, combustible gases or any other bottled gas as a power source for this tool: explosion and serious personal injury could result(Fig. 3).

9.USE ONLY A QUICK CONNECT/ DISCONNECT system to connect the compressed air hose to the nailer. This will prevent an accidental firing of the nailer after disconnecting due to residual air in the hose.

10.DISCONNECT TOOL FROM AIR SUPPLY HOSE before doing tool maintenance, clearing a jammed fastener, leaving work area, moving tool to another location, or handing the tool to another person(Fig. 4).

11. BEFORE USING THIS TOOL, check for any missing, broken or damaged parts. If the condition exists, DO NOT use the tool until proper repairs have been made. If air is leaking from the tool, do not use but have it repaired.

12. NEVER USE TOOL if safety, trigger or spring is inoperable, missing or damaged. Do not alter or remove safety, trigger or springs. Make daily inspections for free movement of trigger and safety mechanism(Fig. 5).

13. DO NOT USE TOOL WITHOUT SAFETY WARNING LABEL. If label is missing, damaged or unreadable, contact your local agencies(Fig. 6)

14. ONLY USE PARTS AND FASTENERS, recommended by us(Fig.7)

Fig.4

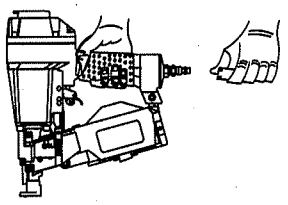


Fig.5

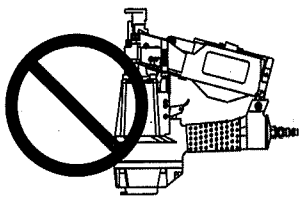
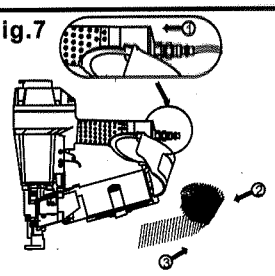


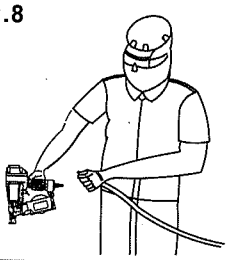
Fig.6

Fig.7



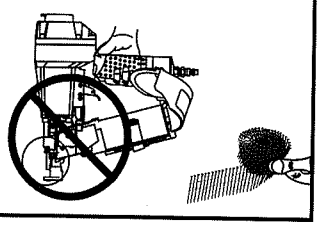
15. CONNECT TOOL TO AIR SUPPLY BEFORE LOADING FASTENERS, to prevent a fastener from being fired during connection. The tool driving mechanism may cycle when tool is connected to the air supply. When not in use, remove all the fasteners from the magazine(Fig. 8).

Fig.8



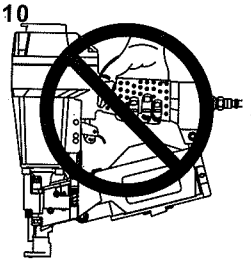
16. ALWAYS ASSUME THE TOOL CONTAINS FASTENERS. Keep the tool pointed away from yourself and others at all times. No horseplay, respect the tool as a working Implement.

Fig.9



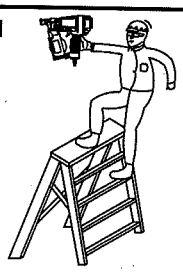
17. DO NOT LOAD FASTENERS with trigger or safety depressed, to prevent unintentional firing of a Fastener(Fig. 9).

Fig.10



18. REMOVE FINGER FROM TRIGGER when not driving fasteners. Never carry tool with finger on trigger: tool will fire a fastener if safety is bumped while trigger is depressed. (Fig. 10).

Fig.11



19. DON'T OVER REACH. Keep proper footing and balance at all times when using or handing the tool(Fig. 11).

20. FIRE FASTENERS INTO WORK SURFACE ONLY: never into materials too hard to penetrate(Fig.12).

21. GRIP TOOL FIRMLY TO MAINTAIN CONTROL while allowing tool to recoil away from work surface as fastener is driven. If safety bracket is allowed to contact work surface again before trigger is released, an unwanted fastener will be fired.

22. DO NOT DRIVE FASTENERS on top of other fasteners, or with the tool at too steep an angle: the fasteners can ricochet causing personal injury.

23. DO NOT DRIVE FASTENERS CLOSE to the edge of the workpiece. The workpiece is likely to split allowing the fastener to fly free or ricochet causing, personal injury. (Fig. 13)

24. KEEP HANDS AND BODY PARTS away from area shown in Fig.13A, to avoid injury.

Fig.12

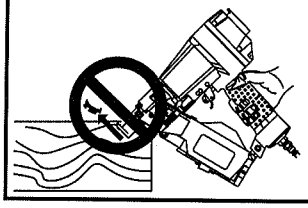


Fig.13

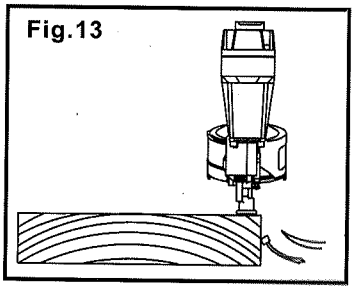
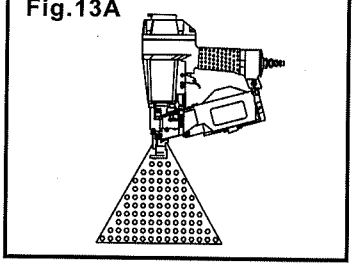


Fig.13A



EMPLOYER'S RESPONSIBILITIES

Employer must enforce compliance with the safety warnings and all other instructions contained in this manual.

Keep this manual available for use by all people assigned to use this tool.

For personal safety and proper operation of this tool, read and follow all of these instructions carefully.

PACKING LIST

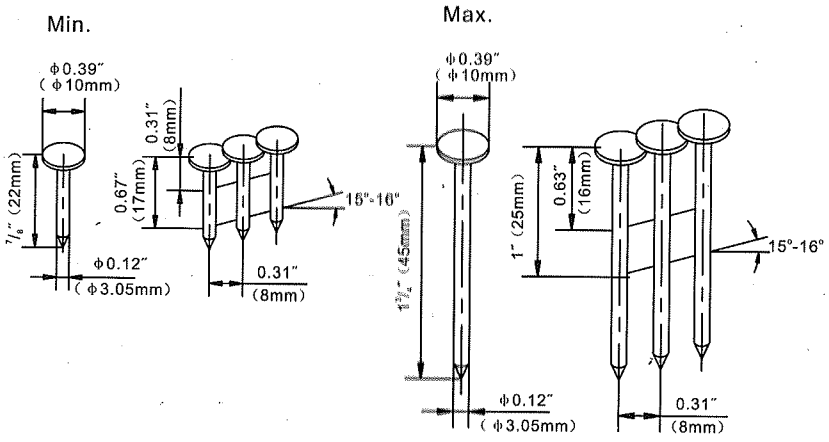
DESCRIPTION	Q'ty
61782 Coil roofing nailer	1
S5 Hex Key	1
S4 Hex Key	1
S3 Hex Key	1
Air Tool Oil	1
Safety glasses	1
Operating instruction	1

TECHNICAL PARAMETER

CHARACTERISTIC	VALUE
Compressed Air pressure	70-120PSI (4.9-8.3bar)
Outline Dimension (L×H×W)	11.5"× 11.5"×5"
Nail Length Range	$^{7}/_{8}$"-1$^{3}/_{4}$"
Tool Weight	5.58 lbs (2.53Kg)
Air Inlet	1/4"NPT
Air Consumption	0.11ft^{3}/cycle at 100psi(at pressure 6.9bar, 3.1litre/cycle)

FASTENERS SPECIFICATIONS

Use only recommended fasteners.



OPERATING INSTRUCTIONS

FOREWORD

Model 61782 is a heavy duty pneumatic coil roofing nailer designed to install 11GA(0.12″ diameter) roofing nails of various lengths from 7/8″ to 1-3/4″. The fastener collation angle is 15 degrees to 16 degrees. The magnesium alloy body and cylinder cap lightens the tool but maintains high strength and rigidity.

POWER SOURCE

This tool is designed to operate on clean, dry, compressed air at regulated pressures between 70 and 120 PSI (Pounds per Square Inch). The preferred system would include a filter (C) Fig.2, a pressure regulator (A) Fig.2, and automatic oiler (B) Fig.2 located as close to the tool as possible (within15 feet is ideal).

All compressed air contains moisture and other contaminates that are detrimental to internal components of the tool. An air-line filter will remove most of these contaminates and significantly prolong the life of the tool. If an in-line oiler is not available: place five or six drops of oil, into the tool's air inlet at the beginning of each workday.

CAUTION: All line components (hoses, connectors, filters, regulators, etc.) must have a minimum working pressure rating of 150 PSI or 150% of maximum system potential, whichever is higher.

DO NOT connect the tool to a system with a maximum potential pressure greater than 180PSI.

Use only quick disconnect connectors when connecting the compressed air hose to the body tail portion of the air inlet.

Disconnect the tool from air supply before performing any maintenance, clearing a jammed fastener, leaving the work area, moving the tool to another location or handing the tool to another person.

PREPARING THE TOOL BEFORE USE

1. After reading and understanding the manual, connect tool to air supply.
   CAUTION: Keep tool pointed away from yourself and others at all times.
   Always connect tool to air supply before loading fasteners.
   Do not load fasteners with trigger or safety depressed.
   Always wear safety goggles or safety glasses with side shields and hearing protection when preparing or operating tool.
   Never use a tool that leaks air or needs repair.

2. Depress spring loaded lock(A in Fig. 14) and open the latch. Rotate the UPPER NAIL HOUSING to the side of the BODY.

3. The ADJUSTER PLATE should be moved when changing nail length. The height of the plate can be adjusted by twisting the knob on top of the post (B in Fig.15) . Rotate the knob clockwise lowers the plate and vice versa. Match the nail height to the marks on the inside back wall of the nail housing.

4. Place a coil of nails over the LOWER NAIL HOUSING. Uncoil enough nails to reach the FEED HOOK and place the second nail between the teeth on the FEED HOOK. (Fig. 16).

5. Close the UPPER NAIL HOUSING and depress the LATCH(Fig. 17).

6. Adjust directional EXHAUST deflector (Fig. 18), so that the exhaust air blast will be directed away from the operator. Grasp the deflector and rotate it to the desired position for the current application.

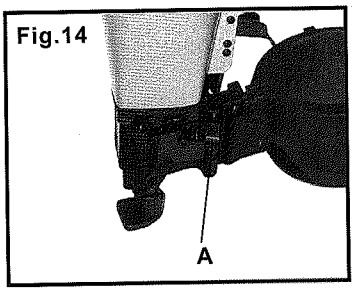


Fig.14

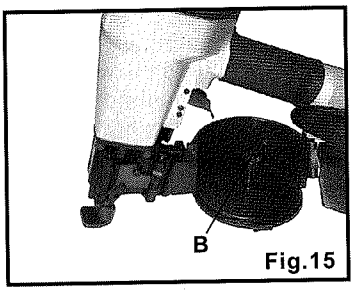


Fig.15

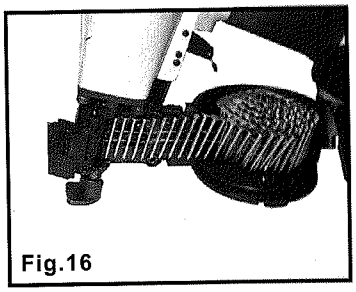


Fig.16

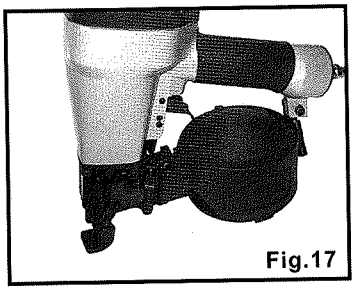


Fig.17

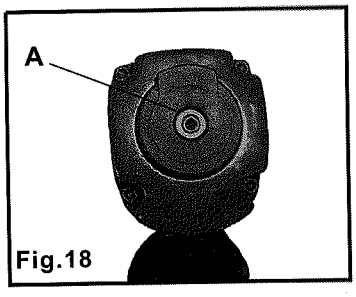


Fig.18

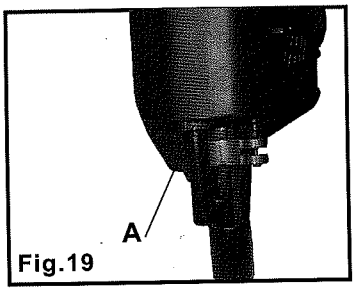


Fig.19

USING THE TOOL

The roofing nailer can be fired in two different ways, depending on the accuracy required:

1. The most accurate method is the "trigger fired" way. Position the drive guide to the desired location and lightly push the tool down on the working surface until the safe bracket is depressed. Pull the trigger to drive the fastener into the surface . Immediately remove pressure from the trigger to prevent a second nail from firing.

2. The second method is the "safe bracket fire". This method requires the operator to continually hold the trigger in a firing position and push the safe bracket unto the work surface. The nailer will fire each time the safe bracket is pushed to the work surface. This method adds speed to the nailing process but sacrifices accuracy.

CAUTION:

Remove the finger from the trigger when not driving fasteners.
Never carry tool with the finger on the trigger. There is a danger of firing a fastener if the safety is bumped.

Keep tool pointed away from yourself and others at all times.

Never attempt to drive a fastener into materials that are too hard, at too steep an angle or near the edge of the workpiece. The fastener can ricochet causing injury.

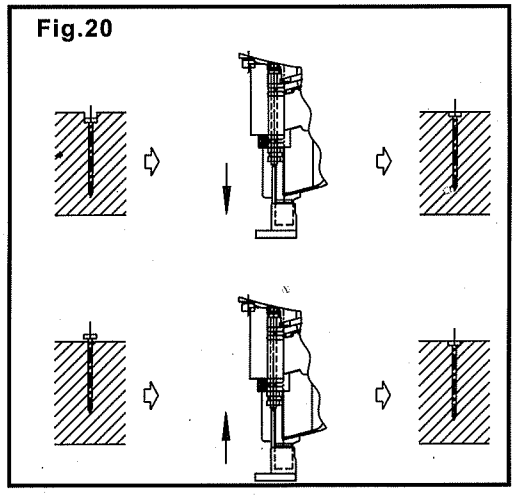
Disconnect the tool from air supply before performing any maintenance, clearing a jammed fastener, leaving the work area, moving tool to another location or handing the tool to another person.

Clean and inspect tool daily. Carefully check for the proper operation of the trigger and safety mechanism. **Do Not** use the tool if either one or both are not functioning. Repair the tool before use. Do not use if the tool is leaking air. Repair before use.

ADJUSTING THE DRIVING DEPTH

Driving depth can be adjusted by rotating the adjuster knob (A in Fig.19).Test fire a fastener and check depth. If the nail is driven too deep, rotate the adjuster knob so the safe bracket move downward. Conversely, if the nail is not driven deep enough, rotate the adjuster knob so the safe bracket moves upward. Test fire a fastener and adjust as necessary (Fig.20).

Fig.20



CLEARING A JAMMED FASTENER

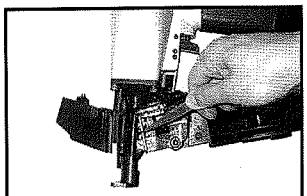


Fig.21

CAUTION: Disconnect air supply from tool.

remove the nails from the lower housing.
A. Open latch, rotate lower housing and remove the nails of the lower housing.
b. Use a slender, soft steel rod to drive the drive blade to its uppermost position. Use needle nose pliers to remove the jammed fastener (Fig.21).
c. Follow instructions in PREPARING THE TOOL BEFORE DRIVING to reload fasteners.

MAINTENANCE

CLEAN AND INSPECT DAILY

CAUTION: Disconnect tool from air supply before cleaning and inspection. Correct all problems before use.

To Clean: Wipe tool clean. Use non-flammable cleaning solutions to wipe exterior only if necessary. DO NOT soak tool in cleaning solutions since they can damage internal parts.

Inspect trigger and safety mechanism to ensure system is functional. Check for loose, missing, binding or sticking parts. Correct any deficiencies use. Keep all screws tight.

If tool is used without an in-line oiler, place 5 or 6 drops of Pneumatic Oil into the tool air inlet at the beginning of each workday.

SERVICE AND REPAIR

All quality tools eventually require service and replacement of parts due to wear. Some user serviceable components are described in the TROUBLE SHOOTING section. For other service, please contact us at 888-315-3080.We will repair your tool or recommend a service group in your area .We cannot guarantee repairs made or attempted by anyone other than these agencies.

Should you have any questions about your tool, please call our Customer Service Dept. at 888-315-3080. Please provide us with the model number of the tool.

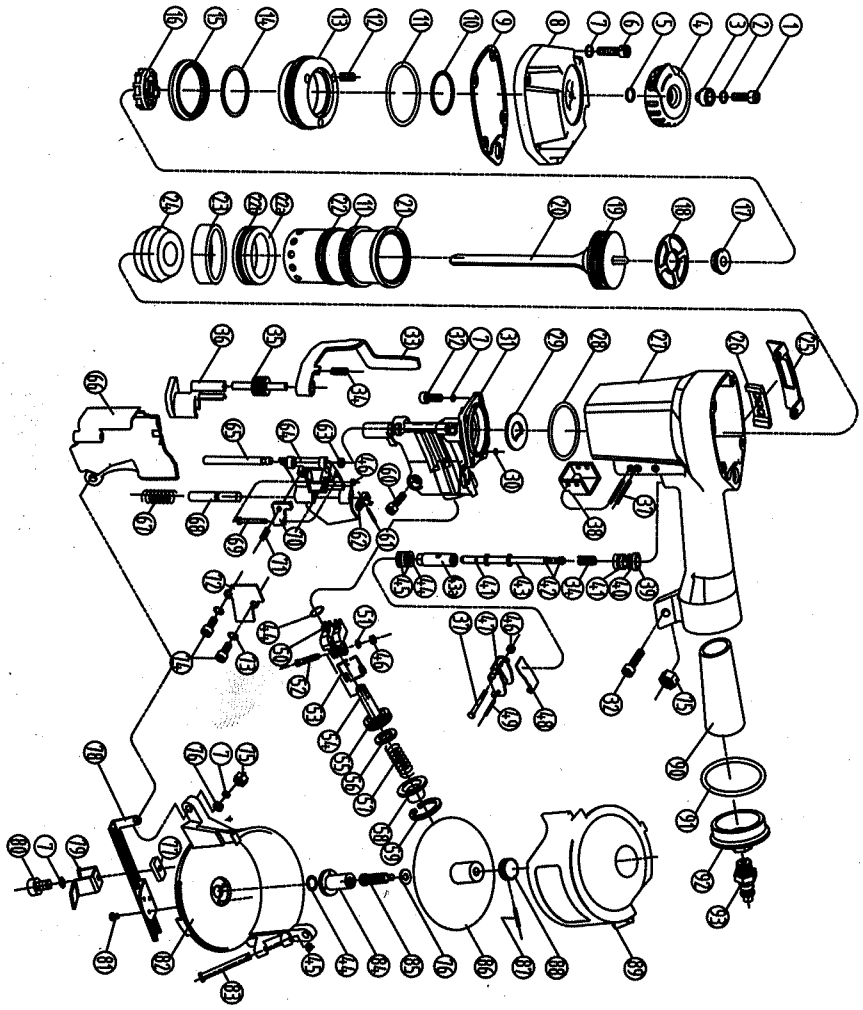
TROUBLESHOOTING

CAUTION: Disconnect tool from air supply before performing any service procedure.

PROBLEM	CAUSE	SOLUTION
Air leaking at trigger area	1. O-ring in trigger valve stem is worn and damaged. 2. O-ring in trigger valve head is worn and damaged. 3. Foreign matter is present.	1.Check/replaceO-ring/lubricate. 2.Check/replaceO-ring/lubricate 3.Clean the tool/lubricate
Air leaking at the body lower portion and nose	1.Screw is loose at the connection between nose and body. 2.O-ring is damaged between body and nose. 3.Bumper is damaged. 4.Foreign matter is present at the contact point of the bumper and body.	1.Tighten screw/recheck 2.Check/replaceO-ring/lubricate 3. Replace the bumper. 4. Disassemble and clean
Air leaking at the body upper portion and nose	1.Screw is loose at the connection between cylinder and body. 2.O-ring is damaged. 3.Gasket is damaged.	1. Tighten the screw and recheck. 2. Check/replace0-ring/lubricate 3. Replace the gasket.
Failure to start tool.	1.Tool dry, lacks lubrication. 2.The spring in the cylinder cap is damaged.	1. Use pneumatic tool oil 2.Replace the spring in the cylinder cap.
Blade driving fasteners too deeply	1.Safe bracket position is not correct. 2.Air pressure is too high.	1.Rotate knob of the adjuster to move safe bracket down. 2.Decrease air pressure.

PROBLEM	CAUSE	SOLUTION
Skipping fasteners/feeding intermittently	1.Foreign matter is present between small piston and small cylinder. 2.O-ring on the small piston is worn and damaged. 3.Tool dry, lacks lubrication. 4.The spring on the small piston is damaged. 5.Air pressure is too low. 6.Connecting screw between nose and body is loose. 7.Stopped hook can't stop the fasteners. 8.Bent fasteners. 9.Wrong size fasteners. 10.Gasket is damaged. 11.Small piston bumper is worn and/or damaged. 12.Feed hook is binding. 13.Loading space in nail housing is incorrect against the nail height. 14.Weld wires in nail coil is broken.	1.Disassemble/ clean/lubricate. 2.Check/replaceO-ring/lubricate 3.Use pneumatic tool oil. 4.Replace small piston spring. 5.Increase the air pressure, but don't exceed 120 PSI (8.3 bar). 6.Tighten all screws. 7.Replace taper spring of the stopped hook. 8.Use recommended fasteners. 9.Use recommended fasteners 10.Replace gasket/tighten screw. 11.Replace bumper and lubricate small piston. 12.Clean feed hook and torsion spring. 13.Adjust base of nail housing to match length of nail. Position for base for each size nail is marked on the inside back wall of the nail housing. 14.Stop using.
Runs slowly or has power loss	1. Tool dry, lacks lubrication. 2. The spring in the cylinder cap is damaged. 3.Foreign matter is present between piston assembly and cylinder. 4.Reassembly of cylinder was done incorrectly. 5.O-ring on the valve is dry after disassemble. 6.Air pressure is too low. 7.Driver is worn. 8.Inner diameter of air hose is too small.	1.Use pneumatic tool oil. 2.Replace the spring in the cylinder cap. 3.Disassemble/clean/lubricate. 4.Reassemble after disassembling. 5.Reassemble after lubricating 6.Increase the air pressure, but don't exceed 120 PSI (8.3 bar). 7.Replace piston assembly. 8.Use larger internal diameter hose.
Fasteners are jammed	1.Fasteners are wrong size. 2.Weld wires in nail coil is broken.	1.Use recommended fasteners. 2.Stop using.
Others	To be determined	Contact us at 888-315-3080

EXPLODED VIEW DRAWING



PART LIST

Item	Part	Description
1	ND032	Screw
2	TD003	Spring Washer
3	CT034	Bushing
4	PG013	Exhaust Cover
5	JX009	Washer
6	ND043	Screw
7	TD004	Spring Washer
8	QG042	Cylinder Cap
9	QD013	Gasket
10	OR055	O-ring 36.3x2.5
11	OR088	O-ring 54.3x3
12	YH025	Spring
13	PF021	Valve
14	OR065	O-ring 40.2x2.3
15	QS005	Valve Seal
16	PZ001	Valve Seat
17	ZD003	Stopped Washer
18	DQ007	Washer
19	OR071	O-ring 43.3x3.5
20	HS102	Piston Assembly
21	QC063	Cylinder
22	OR082	O-ring 50.5x2.5
22a	QS013	Restrictive Plate
22b	OR103	O-ring 70.4x3.5
23	GT004	Cylinder Seal
24	HC016	Bumper
25	BK004	Protective Piece
26	BK002	Soft Spacer
27	KT096	Body
28	OR075	O-ring 46x1.3
29	QD021	Restrictive Washer
30	OR008	O-ring 8.3x1.8
31	DT090	Nose
32	ND042	Screw
33	BX057	Bracket
34	YH062	Spring
35	TG007	Adjuster
36	BX066	Bracket Assembly
37	TX032	Spring Pin
38	DX002	Safe Bracket Guide
39	FT006	Trigger Valve Guide
40	OR018	O-ring 12.8x1.9
41	OR019	O-ring 14.3x1.9
42	OR005	O-ring 6.4x1.5
43	FG025	Trigger Valve Stem
44	FT011	Trigger Valve Guide
44a	CT017	Bushing
45	OR015	O-ring 12.3x1.9

Item	Part	Description
46	JX008	Washer
47	BB007	Trigger
48	PH001	Trigger Spring
49	TX014	Spring Pin
50	SZ004	Feed Hook
51	PD001	Washer
52	ZX021	Feed Hook Pin
53	NH015	Torsion Spring
54	HS093	Piston
55	OR038	O-ring 24.3x2.8
56	HC023	Piston Bumper
57	YH020	Spring
58	DC001	Cover
59	KL002	Locking Washer
60	ND050	Screw
61	TX023	Spring Pin
62	SB002	Handle
63	JX018	Washer
64	YB014	Latch
65	ZX050	Pin
66	BH003	Protector
67	YH019	Spring
68	ZX052	Shaft
69	ZX051	Pin
70	ZZ005	Stopped Hook
71	ZH001	Taper Spring
72	DK006	Block Plate
73	TD002	Spring Washer
74	ND013	Screw
75	SM001	Nut
76	PD008	Washer
77	LB001	Connected Plate
78	GZ062	Support
79	ZB001	Bracket
80	ND039	Screw
81	ND010	Screw
82	XH003	Lower Nail Housing
83	ZX020	Pin
84	TT001	Adjuster Bushing
85	TG008	Adjuster Stem
86	XD002	Adjuster Plate
87	TX015	Spring Pin
88	XL006	Adjuster Nut
89	SD003	Upper Nail Housing
90	ST007	Soft Grip Sleeve
91	OR078	O-ring 48.5x2.5
92	DE005	End Cap
93	GJ003	Air Plug