



PORTA-NAILS, INC. • PO BOX 1257 • WILMINGTON, NC 28402 • 910-762-6334 • 800-634-9281 • FAX 910-763-8650
HOME PAGE: www.porta-nails.com • E-MAIL: pni@wilmington.net

Owners Manual

Model 461

18 Gauge

Flooring Stapler



CAUTION - Read important safety instructions AND operation instructions, BEFORE operating your Model 461 18 Gauge Flooring Stapler.

Your new **Model 461 18 Gauge Flooring Stapler** is a quality-built machine, capable of dependable performance throughout its lifetime. To take full advantage of these capabilities you should thoroughly understand the proper method and technique of its operation. Therefore, we suggest you read this manual before operating and that you save it for future reference.

Model 461 18 Gauge Flooring Stapler



Specifications:

- Operating Pressure : 70 – 100 psi.
- Fastener length range: 3/8” – 1-1/4”
- Magazine capacity: 2 Strips
- Hose fitting: 1/4”NPT
- Weight: 2.4 lbs.

Features:

- Light weight & powerful design
- Precise – drives staples at 45 degree angle every time.
- Easy loading of nails.

Applications:

- For the installation of 1/4”, 5/16”, 3/8” & 1/2” hardwood laminate flooring.

PNI

TOOL AND PARTS WARRANTY

All **PNI** Products are Computer Aided Designed to provide maximum power and reliability. The construction methods use the highest Quality standards of material and workmanship.

TOOL AND PARTS WARRANTY:

PNI Products are warranted to be free of defects from workmanship and material for a period of one year from the date of original purchase (exceptions: rubber o-rings, seals and driver blades).

A Five-Year Extended Warranty on the Main Body Casting is available (see the Warranty Registration for details).

This warranty does not apply where:

- The tool has been abused, misused or improperly maintained.
- Alterations have been made to the tool.
- Repairs have been attempted by others or the use of nonconforming parts.
- The tool has suffered any physical damage arising from the use of the wrong fasteners.
- Repairs are required because of normal wear and tear.

In no event shall **PNI** be liable for any indirect, incidental or consequential damage from the sale or use of the product. This disclaimer applies both during and after the term of warranty.

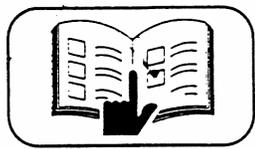
This is the only warranty and our company makes no warranties, express or implied, including merchantability and fitness for a particular purpose, after the one-year term of this warranty.

Should any trouble develop during this one-year period and/or the Extended Main Body Casting Warranty, return the complete tool, freight prepaid, to the original place of purchase or to the **PNI** factory. If inspection shows the trouble is caused by defective workmanship or material, **PNI** will repair (or at our option, replace) without charge and return prepaid.

This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



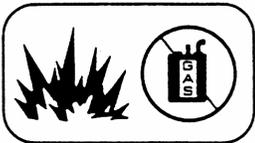
Safety Instructions



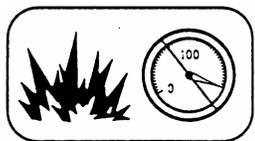
1. Read this manual and understand all safety instruction before operating the tool.



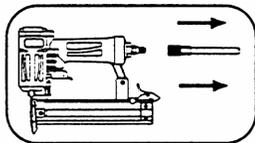
2. Never allow the use of any type of flammable gases or oxygen as a power source for the tool. Use filtered, lubricated, regulated compressed air only.



3. Never use gasoline or other flammable liquids to clean the tool. Vapors in the tool could be ignited by a spark and explode.



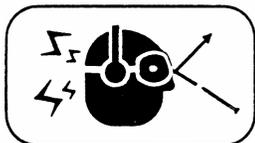
4. Do not exceed maximum permissible operating pressure 110 psi (7.6 bar).



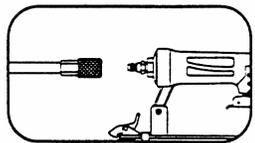
5. Disconnect the tool from air supply before clearing jams, servicing, adjusting, and during non-operation.



6. Do not keep the trigger pulled on contact safety mechanism when carrying or holding the tool. Never carry the tool by the hose or pull the hose to move the tool.



7. At the workplace, always wear the protective equipment such as Z37.1 safety glasses ear and head protection.



8. Do not use a check valve or any other fitting which allows air to remain in the tool.

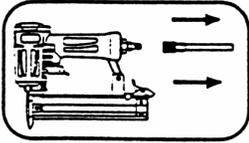


9. Never point any operational fastener driving tool at yourself or at any other person.

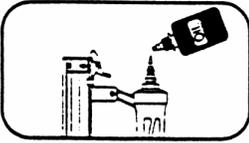
Lubrication And Maintenance



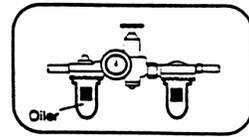
1. Your tool requires lubrication before you use it for the first time.



2. Disconnect the air supply from the tool before lubricating.



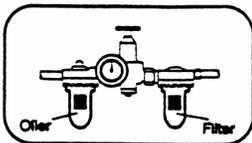
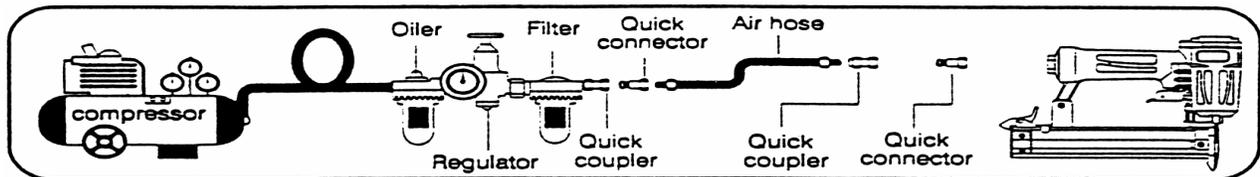
3. Turn the tool so the inlet is facing up and put one drop of high speed spindle oil, UNOCAL RX22, or 3-IN-1 oil into air inlet. Never use detergent oil or additives. Operate the tool briefly after adding oil.



4. Wipe off excessive oil at the exhaust. Excessive oil will damage O-rings of tool. If in-line oiler is used, manual lubrication through the air inlet is not required on a daily basis.

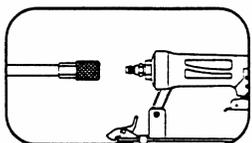
Compressed Air System And Connections

THE FOLLOWING ILLUSTRATION SHOWS THE CORRECT MODE OF CONNECTION TO THE COMPRESSED AIR SYSTEM WHICH WILL INCREASE THE EFFICIENCY AND USEFUL LIFE OF THE TOOL.



Many air tool users find it convenient to use oiler to help provide oil circulation through tool and increase the efficiency and useful life of the tool. Check oil level in the oiler daily.

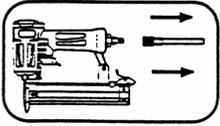
Many air, tool users find it convenient to use a filter to remove liquid and impurities which can rust or wear internal parts of the tool. A filter also increase the efficiency and life of the tool. The filter must be checked on a daily basis and if necessary drained.



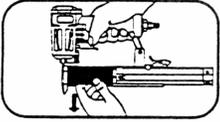
For better performance, install a 3/8" quick connector (1/4" NPT thread) with an inside diameter of .315" on your tool and a 3/8" quick coupler on the air hose.

Contact Safety Mechanism

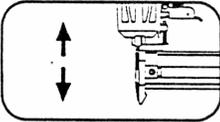
CHECKING OPERATION OF CONTACT SAFETY MECHANISM



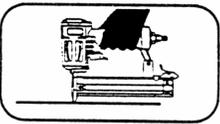
1. Disconnect the air supply from the tool.



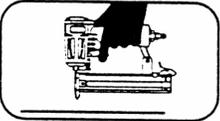
2. Empty the magazine.



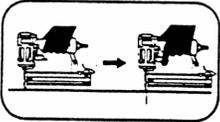
3. Make sure the trigger and contact safety mechanism move up and down without any sticking.



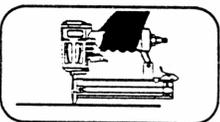
4. Connect air supply to the tool.



5. Depress the contact safety mechanism against the workpiece without pulling the trigger. The tool must not cycle. Never use the tool if a cycle occurs.

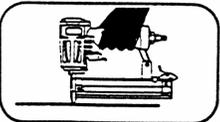


6. Hold the tool clear of the workplace. The contact safety mechanism should return to its original down position. Pull the trigger. The tool must not cycle. Never use the tool if a cycle occurs.

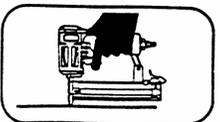


7. Depress the contact safety mechanism again the workpiece and pull the trigger, the tool must cycle.

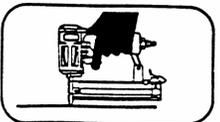
OPERATING A CONTACT SAFETY TOOL



1. The operator requires finger to be off the trigger and the nose of the tool to be placed on the workpiece.



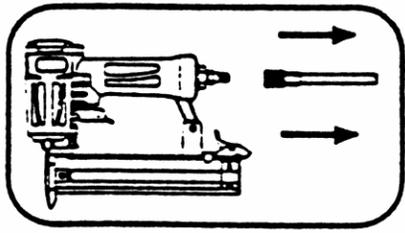
2. The contact safety mechanism is then depressed against the workpiece and the trigger is pulled to drive a fastener.



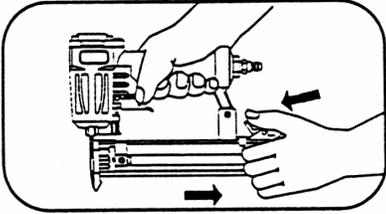
3. The trigger is released after each fastener is driven.

4. Move the tool to the next location and the above procedure repeated.

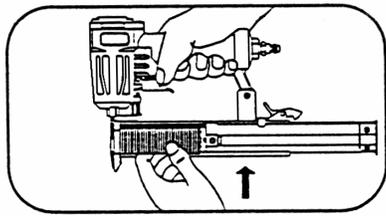
Filling The Magazine



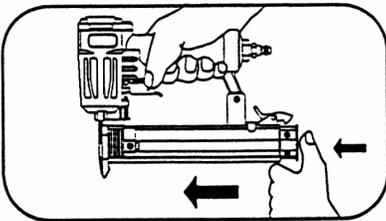
1. Disconnect air hose.



2. Depress the magazine latch. Pull back on the magazine cover.

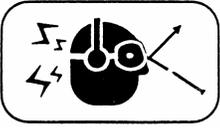


3. Insert a stick of fasteners into the magazine. Make sure the pointed ends of the fasteners are resting on the bottom edge of the magazine.



4. Push the magazine cover forward until the latch catches.

OPERATING THE TOOL



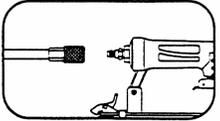
PROTECT YOUR EYES AND EARS. WEAR SAFETY GLASSES WITH SIDE SHIELDS (MUST COMPLY WITH ANSI Z87.1). WEAR HEARING PROTECTION. EMPLOYERS AND USERS ARE RESPONSIBLE FOR ENSURING THE USER OR ANYONE NEAR THE TOOL WEAR THIS SAFETY PROTECTION.

NOTE:

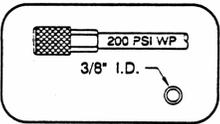
CHECK AND REPLACE ANY DAMAGED OR WORN COMPONENTS ON THE TOOL. THE SAFETY WARNING LABELS ON THE TOOL MUST ALSO BE REPLACED IF THEY ARE NOT LEGIBLE.



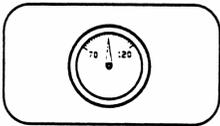
1. Add a few drops of UNOCAL RX22 or 3-IN-1 oil into the air inlet.



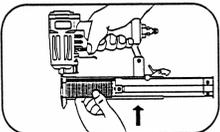
2. Install a quick connect fitting to the tool.



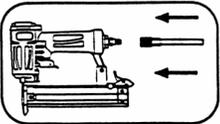
3. Connect the tool to an air compressor using a 3/8" I.D. hose. Make sure the magazine must be empty of all fasteners and the hose has a rated working pressure exceeding 200 psi (13.8 bar) and a female quick coupler.



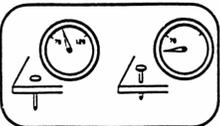
4. Regulate the air pressure to obtain 85 psi (5.9 bar) at the tool. Check the operation of the contact safety mechanism following the instructions in this manual.



5. Insert fasteners into your tool following the instructions of loading the tool.



6. Reconnect the air hose to the tool.

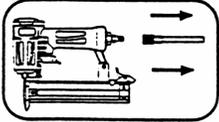


7. Test for proper fastener penetration by driving fasteners into a piece of wood. If the fasteners do not achieve the desired penetration, regulate the air pressure to a higher setting until the desired penetration is achieved. Do not exceed 100 psi (6.9 bar) at tool.

Clearing A Jam From The Tool



DISCONNECT THE TOOL FROM AIR COMPRESSOR BEFORE ADJUSTING. CLEARING JAMS. SERVICING, RELOCATING AND DURING NON-OPERATION.



Fastener jammed inside magazine:

1. Disconnect tool from air supply.
2. Press down on latch and pull back on magazine.
3. Remove jammed fastener and push magazine cover forward until latch catches.

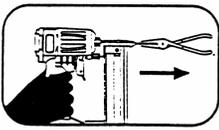


Fig. 1

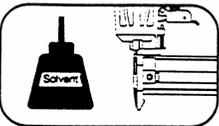
Fastener jammed in fastener discharge area:

1. Disconnect tool from air supply.
2. If need, remove 2 screws from nose door and open the nose door.
3. Grab jammed fastener with pliers and remove. (See **Fig. 1**)
4. Close the nose door and install 2 screws. Check the operation of the contact safety mechanism following the instructions in this manual.

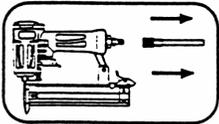
Cleaning The Tool



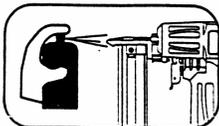
NEVER USE GASOLINE OR OTHER FLAMMABLE LIQUIDS TO CLEAN THE TOOL. VAPORS IN THE TOOL WILL IGNITE BY A SPARK AND CAUSE THE TOOL TO EXPLODE AND RESULT IN DEATH OR SERIOUS PERSONAL INJURY.



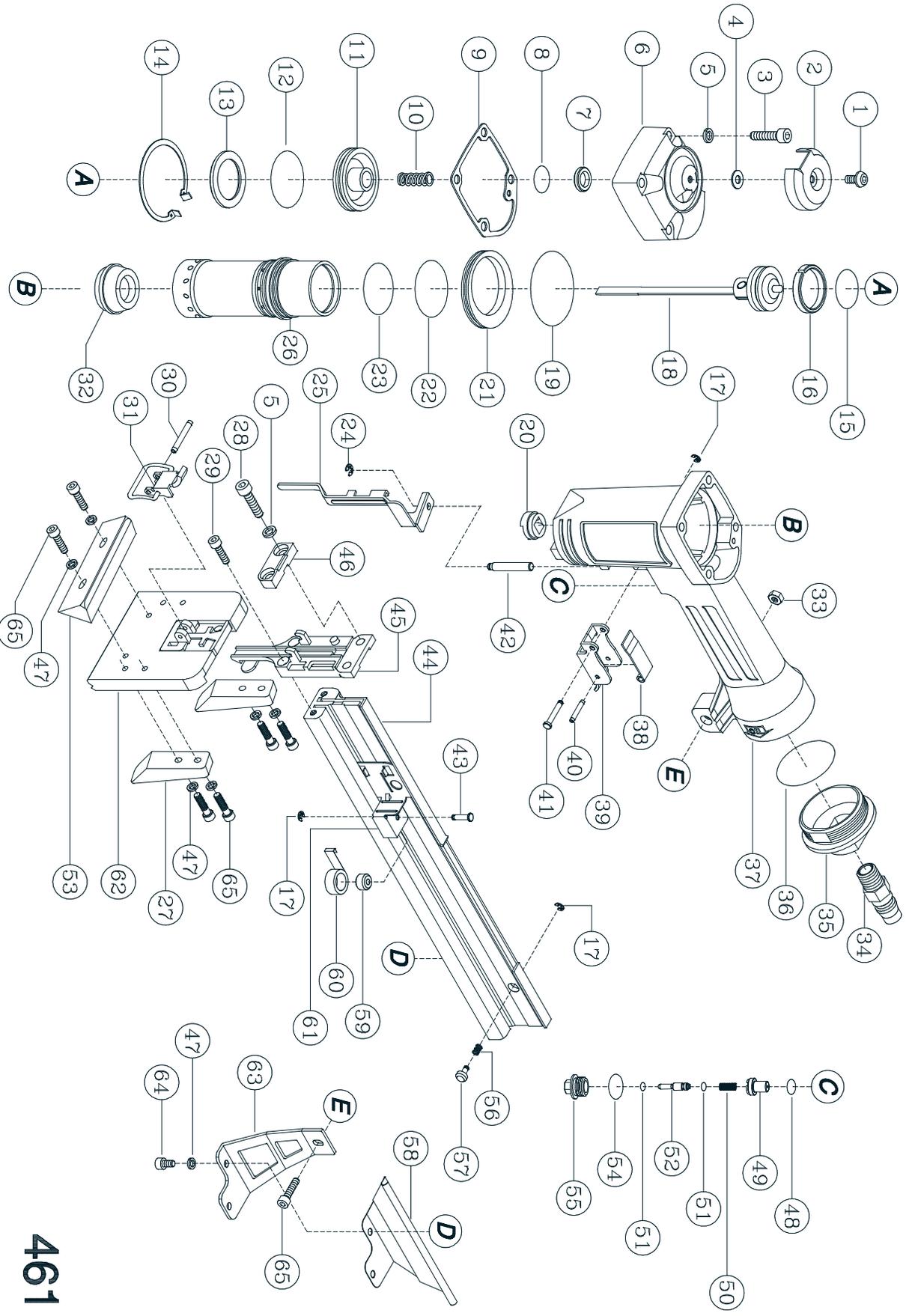
SOLVENTS USED TO CLEAN THE NOSE OF THE TOOL AND CONTACT SAFETY MECHANISM MAY CAUSE BUILDUP TO BE ACCELERATED IF NOT DRY. MAKE SURE TO DRY THE TOOL THOROUGHLY AFTER CLEANING AND BEFORE OPERATING THE TOOL AGAIN.



1. Disconnect the air supply from the tool.



2. Remove tar buildup with kerosene #2 fuel oil or diesel fuel. Do not allow solvent to get into the cylinder or damage may occur. Dry off the tool completely before use.



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ITEM	DESCRIPTION	PART NO.
1	SCREW - SOC BUTT. HD	46141
2	DEFLECTOR	46109
3	SCREW - SOC HEAD	46159
4	SEAL	46016
5	WASHER - SPRING	46065
6	CAP	46119
7	SEAL	46101
8	O-RING	46147
9	GASKET - CAP	46124
10	SPRING	46103
11	VALVE - PISTON HEAD	46120
12	O-RING	46150
13	COLLAR	46125
14	C-RING	46123
15	O-RING	46153
16	O-RING - PISTON	46122
17	E-RING	46051
18	PISTON RAM ASSEMBLY	46135
19	O-RING	46148
20	GUIDE - RAM	46102
21	SPACER - CYLINDER	46117
22	O-RING	46149
23	O-RING	46151
24	E-RING	46145
25	SAFETY	46136
26	CYLINDER	46116
27	FOOT - REAR	46138
28	SCREW - SOC HEAD	46067
29	SCREW - SOC HEAD	46157
30	PIN - SPRING	46144
31	COVER - QUICK RELEASE	46126
32	BUMPER	46118
33	NUT - LOCK	46142

ITEM	DESCRIPTION	PART NO.
34	CONNECTOR - AIR	46050
35	CAP - END	46121
36	O-RING	46152
37	BODY - GUN	46115
38	TRIGGER - SECONDARY	46104
39	TRIGGER - PRIMARY	46110
40	PIN - SPRING	46143
41	PIN - STEPPED	46111
42	ROD	46112
43	PIN - ROLL	46133
44	MAGAZINE	46130
45	NOSE	46139
46	COVER - NOSE B	46114
47	WASHER - SPRING	46064
48	O-RING	46155
49	VALVE - TRIGGER	46106
50	SPRING	46108
51	O-RING	46154
52	STEM - TRIGGER VALVE	46107
53	FRONT FOOT	46137
54	O-RING	46146
55	GUIDE - TRIGGER VALVE	46105
56	SPRING	46113
57	BUTTON	46134
58	PLATE	46129
59	ROLLING ELEMENT	46132
60	SPRING - ROLLER	46131
61	PUSHER	46127
62	COVER - NOSE ASSEMBLY	46140
63	BRACKET - LATCH	46128
64	SCREW - SOC HEAD	46156
65	SCREW - SOC HEAD	46158

Troubleshooting

Problem	Cause	Remedy
Air leaking at trigger valve area.	O-rings in trigger valve housing are damaged.	O-rings must be replaced & operation of contact safety trip mechanism must be checked.
Air is leaking between housing and nose.	Loose screws in housing. Damaged O-rings. Damage to Bumper	Screws need to be tightened. O-rings must be replaced. Bumper needs to be replaced
Air is leaking between housing and cap assembly.	Loose screws. Damaged Seal.	Screws need to be tightened. Seal needs to be replaced.
Tool skips driving Fastener.	Worn Bumper. Dirt in nose. Dirt or damage prevents fasteners from moving freely in the magazine. Inadequate air flow to tool. Worn O-rings on Piston or lack of lubrication. Damaged O-rings on Trigger Valve. Air leaks. Cap Seal is leaking.	Bumper needs to be replaced. Clean. Magazine needs to be cleaned. Fitting house or air compressor needs to be checked. O-ring needs to be replaced. Lubricate. O-ring needs to be replaced. Screws and fittings need to be tightened. Seal needs to be replaced.
Tool runs slow or has loss of power.	Tool not lubricated sufficiently. Broken Spring in Cap assembly. Exhaust port in Cap is blocked.	Tool needs to be lubricated. Spring needs to be replaced. Damaged internal parts, need to be replaced.
Fasteners are jammed in Tool	Driver Guide worn or damaged. Driver is damaged. Fasteners are not correct size. Fasteners are bent. Magazine or nose screws are loose.	Replace Driver Guide. Replace Driver. Fasteners recommended for tool must be used. Replace with undamaged fasteners. Screw need to be tightened.

NOTES