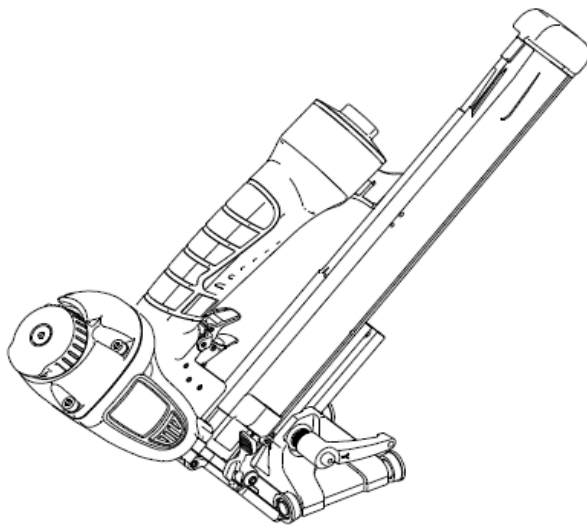


Pro Drive HD

OPERATION and MAINTENANCE MANUAL

MODEL : EFS-78150-2



⚠ WARNING:

BEFORE OPERATING THIS TOOL, ALL OPERATORS SHOULD STUDY MANUAL TO UNDERSTAND AND FOLLOW THE SAFETY WARNINGS AND INSTRUCTIONS. KEEP THESE INSTRUCTIONS WITH THE TOOL FOR FUTURE REFERENCE. IF YOU HAVE QUESTIONS, CONTACT YOUR DISTRIBUTOR.

INTRODUCTION

The pneumatic tools is a precision-built tool, designed for high speed, high volume fastening. These tools will deliver efficient, dependable service when used correctly, and with care. As with any fine power tool, for best performance, the manufacturer's instructions must be followed. Please study this manual before operating the tool and understand the safety warning and cautions. The instructions on installation, operation and maintenance should be read, carefully, and the manual kept for reference. **NOTE:** Additional safety measures may be required because of your application of the tool. Contact your representative or distributor with any questions concerning the tool and its use.

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 TOOL SPECIFICATIONS

MODEL	LENGTH	WIDTH	HEIGHT	WEIGHT	LOAD CAPACITY
PR-9040FL2	422mm(16 5/8")	103mm(4")	283mm(11 1/8")	3.39 lbs(1.54kg)	200 staples
PR-9040FL	360mm(14 1/8")	65mm(2 1/2")	242mm(9 1/2")	3.19 lbs(1.45kg)	200 staples

FASTENER SPECIFICATIONS

MODEL	GAUGE SIZE	CROWN SIZE	WIDTH×THICKNESS	LENGTH
PR-9040FL2	18 GA.	5.8mm(7/32")	1.25×1.0mm(.050"×.039")	12-40mm(1/2"-1 5/8")
PR-9040FL	18 GA.	5.8mm(7/32")	1.25×1.0mm(.050"×.039")	12-40mm(1/2"-1 5/8")

TOOL AIR FITTING

This tool uses a 1/4" N.P.T male plug. The inside diameter should be .200"(5mm) or larger. The fitting must be capable of discharging tool air pressure when disconnected from the air supply.

OPERATING PRESSURE

70 to 120psi (4.9 to 8.3kg/cm²) Select the operating pressure within this range for best fastener performance

DO NOT EXCEED THIS RECOMMENDED OPERATING PRESSURE.

A-weighted single-event sound pressure level at operator's: $L_{PA,2S} =$

A-weighted single-event sound power lever: $L_{WA,1s} =$

A-weighted single-event surface sound pressure level: $L_{PA,1s,1m} =$

VIBRATION CHARACTERISTIC VALUES IN ACCORDANCE WITH ISO 8662; PART11:

Weighted root means square acceleration:

SAFETY INSTRUCTIONS

SAFETY FIRST

These safety instructions provide information necessary for safe operation of pneumatic tools. **DO NOT** attempt to operate the tool until you read and understand all safety precautions and manual instructions.

◆ WEAR EYE AND HEARING PROTECTION

Always wear hearing and eye protection devices, including side shields when operating or working in the vicinity of a tool.

◆ THE TOOL MUST BE USED ONLY FOR THE PURPOSE FOR WHICH IT WAS DESIGNED

Do not throw the tool on the floor; strike the housing in any way or the tool as a hammer to knock material into place.

◆ NEVER ENGAGE IN HORSEPLAY WITH THE TOOL

The tool is not a toy so do not use it like one. Never engage in horseplay with the tool or point it at yourself or any person, even if you think it is not loaded.

◆ NEVER ASSUME THE TOOL IS EMPTY

Check the magazine for fasteners that may be left in the tool. Even if you think the tool is empty or disconnected never point it at anyone or yourself. Unseen fasteners could fire the tool.

◆ NEVER CLAMP THE TRIGGER IN A LOCKED OR OPERATING POSITION.

The trigger of the tool must never be tampered with; disabled or clamped in a locked or operating position since this will cause the tool to driver a fastener any time the work contacting element is depressed.

◆ DO NOT LOAD FASTENERS WITH THE AIR LINE CONNECTED, OR WITH THE TOOL TRIGGER OR WORK CONTACTING ELEMENT DEPRESSED

When loading fasteners into the tool sure you disconnect the air line and that you do not depress the trigger or work contacting element.

SAFETY INSTRUCTIONS

◆ OPERATE THE TOOL ONLY ON A WORKPIECE

The tool should be operated only when it is in contact with the work piece. Even then you should be careful when fastening thin material or working near the edges and corners of the work piece since the fasteners may drive through or away from the work piece.

◆ DO NOT DISABLE OR REMOVE THE WORK CONTACTING ELEMENT

This tool is equipped with a safety mechanism, called a work contacting element, to help prevent accidental firing. Never tamper with, disable, or remove the work contacting element. Do not use the tool unless the work contacting element is working properly. The tool could fire unexpectedly.

◆ DISCONNECT THE TOOL WHEN NOT IN USE

Always disconnect the tool from the air line when it is not used or when you leave the work area. The tool should never be left unattended because people who are not familiar with the tool might handle it and injure themselves or others.

◆ CARRY THE TOOL ONLY BY THE HANDLE

Always carry the tool by the handle only. Never carry the tool by the air hose or with the trigger depressed since you could drive a fastener unintentionally and injure yourself or someone else.

◆ DO NOT WEAKEN THE TOOL HOUSING

The tool housing is a pressure vessel and should never be weakened by having your company's name, area of work or anything else stamped or engraved into its surface.

◆ DISCONNECT THE TOOL WHEN PERFORMING REPAIRS AND CLEARING JAMS

Never attempt to clear a jam or repair a tool unless you have disconnected the tool from the air line and removed all remaining fasteners from the tool.

SAFETY INSTRUCTIONS

- ◆ **ALWAYS USE THE PROPER FITTING FOR THE TOOL**
Only **MALE** pneumatic type air connectors should be fitted to the tool, so that high pressure air in the tool is vented to atmosphere as soon as the air line is disconnected
NEVER install **FEMALE** quick disconnect couplings on the tool. Female couplings will trap high pressure air in the tool when the air line is disconnected, leaving the tool charged and able to drive at least one fastener.

- ◆ **DO NOT EXCEED THE MAXIMUM RECOMMENDED AIR PRESSURE**
Operate the tool only at the recommended air pressure. Do not exceed the maximum air pressure marked on the tool. Be sure the air pressure gauge is operating properly and check it at least twice a day .
Never use any bottled air or gases such as oxygen to operate the tool since they could cause the tool to explode.

- ◆ **KEEP THE TOOL CLEAN AND LUBRICATED**
Clean the tool at least daily and lubricate as required. Never operate a dirty or malfunctioning tool.

- ◆ **USE ONLY RECOMMENDED PARTS AND FASTENERS.**
Use only parts and fasteners specifically designed and recommended for use in the tool and for the work to be done. Using unauthorized parts and fasteners or modifying the tool in any way creates dangerous situations. Replace all missing parts-refer to tool schematic for correct placement and part number.



DANGER



Failure to follow any of the above instructions could result in severe personal injury to tool user and bystanders or cause damage to tool and property.

AIR SYSTEMS

For air-powered tools to work their best, the air supply system must be properly installed and maintained regularly. A drawing in this section shows a professionally installed air supply system. Handy checklists for installing and maintaining air supply systems follow.

◆ INDOOR AIR SYSTEM INSTALLATION BE CERTAIN THAT:

- ✧ All pipes supplying air have a large enough inside diameter to ensure adequate air supply.
- ✧ The main supply pipe slopes down, away from the compressor (1/16 inch per foot).
- ✧ Air storage is provided along lengthy air lines.
- ✧ Pipeline branch outlets are at the top of the main pipeline.
- ✧ Cut-off valves are provided at each branch pipeline throughout the system.
- ✧ Water legs extend from the bottom of each branch line.
- ✧ A refrigerant-type dryer is installed on the system.
- ✧ Air hoses are kept as short as practical.
- ✧ A regular maintenance program is followed.

◆ OUTDOOR AIR SYSTEM INSTALLATION BE CERTAIN THAT:

- ✧ A moisture trap and a filter/regulator/lubricator are installed at the compressor.
- ✧ Air hoses and fittings are large enough so that air flow not restricted. Minimum hose size is 3/8" ID, with 1/2" ID hose used for any application over 25 feet.
- ✧ Air hoses are not longer than 150 feet.
- ✧ The air system is lubricated regularly.
- ✧ A regular maintenance program is followed.

AIR SYSTEMS

◆ FILTER / REGULATOR / LUBRICATOR UNITS

Filter / regulator / lubricator units that can supply enough air and protection for pneumatic tools must meet the following specifications:

- ◇ Minimum 3/8" NPT port size.
- ◇ 50 micron or finer filters.
- ◇ Regulated pressure from zero to 120 psi

Lubricators designed for low or changing airflow.

TOOL INSTALLATION

△ DANGER △



Air pressure at the tool must never exceed 120 psi.

Your pneumatic tool Comes ready for immediate use and can be installed by following these steps:

- i. **SAFETY**-All tool operators and their immediate supervisors must become familiar with the operator safety instructions before operating the tool. The instructions are on page 2 of this manual
- ii. Included with each tool are one copy of this Safety and Maintenance manual and one copy of the Tool Schematic. Keep these publications for future reference.
- iii. The Plastic cap in the air inlet of the tool must be removed before the male air fitting is installed The fitting must be a male pneumatic type that discharges the air from the tool when the air line is disconnected.
- iv. Install a filter/regulator/lubricator unit with a gauge as close as practical to the tool, preferably within ten feet. Refer to the Air Systems section of this manual for air hose requirements and lengths. In general, no other special installation is required.
- v. If the operator is working at a bench or table, it is usually best to run the air line underneath the bench. A small tray under the benchtop can



hold the fastener supply and the tool when not in use.

- vi. If this tool does not work when is it is first connected, do not try to make repairs. Call your local service center immediately

 DANGER 
Air pressure at the tool must never exceed 120 psi.

TOOL OPERATION

Depth of Drive Adjustment

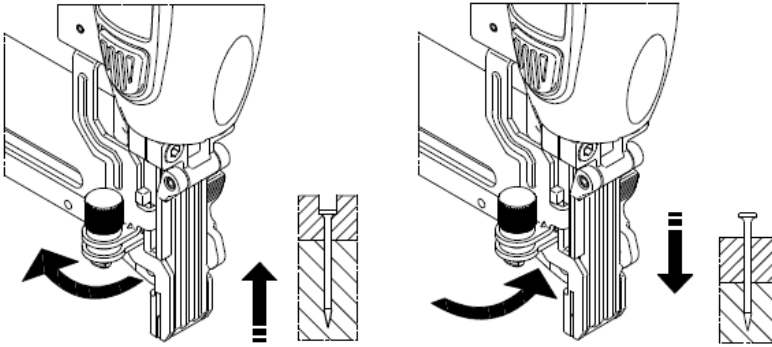
 WARNING 
Keep the tool pointed in a safe direction. Disconnect the tool from the air supply and remove all fasteners.

For 78150-EFS-2

If nails are driven too deep or shallow into the work surface, turn the adj. bolt to allow the safety lever to be moved up or down.

If the tool is overdriving (the fastener head is driven below the work surface), the safety lever should be moved downward. If the fasteners stand up (the head is not flush with the work surface), the safety lever should be moved up.

Adjust the safety lever until the fastener head depth meets job requirements.



TOOL OPERATION

◆ PRECISION PLACEMENT DRIVING:

- ◇ Grasp the tool handle firmly and hold the bottom of the work contacting element firmly against the workpiece until it is completely depressed.
- ◇ Squeeze the trigger to drive the fastener.
- ◇ Lift the tool from the workpiece.
- ◇ Repeat the procedure for the next fastener.

◆ SUCCESSIVE(BOUNCE) DRIVING

- ◇ Grasp the handle firmly.
- ◇ Squeeze the trigger and move the tool along the workpiece with a bouncing motion, depressing the work contacting element at the points where you want to insert a fastener.
- ◇ Keep the trigger depressed and continue to bounce the work contacting element against the workpiece, positioning the tool as above as carefully as possible.
- ◇ When the desired number of fasteners have been driven, release the tool trigger to avoid unintentional fastener discharge.

⚠ **WARNING** ⚠

**Do not clamp or hold trigger with anything
Other than your hand.**

◆ **SEQUENTIAL OPERATION**

The sequential operating prevents successive or “bounce” driving.

◇ Depress the work contacting element and hold it against the work surface before pulling the trigger.

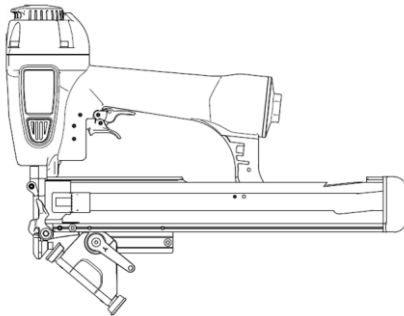
◇ After each fastener is driven, completely release the trigger and lift the tool from the work surface.

For 78150-EFS-2

The tool is equipped with secondary trigger. Position tool against work surface, using the middle finger, pull the secondary trigger clear of the primary trigger. Then, using the first finger, pull the primary trigger to actuate the tool.

Step. 1: Pull the secondary trigger.

Step. 2: Pull the primary trigger.

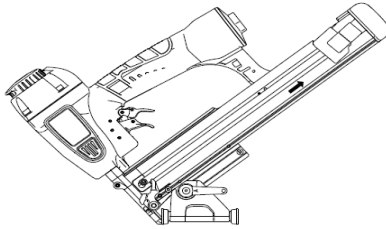


TOOL LOADING

STAPLER

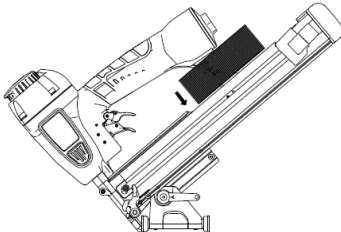
(1) Grasp the stapler handle firmly. Pull the pusher all the way to the rear of the magazine until it is latched into its loading

position by the magazine slot.



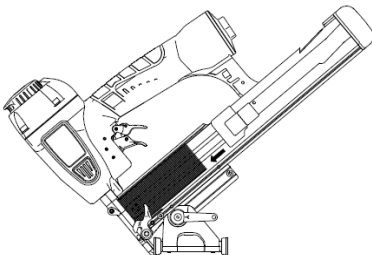
78150-EFS-2

- (2) Insert one or two strips of fasteners into the top of the magazine.



78150-EFS-2

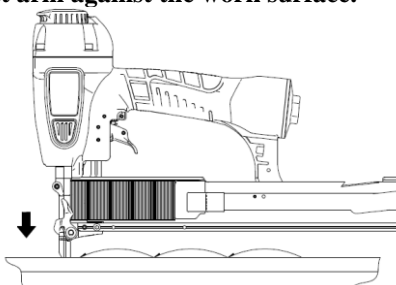
- (3) Hold the pusher firmly and slide the pusher forward until it contacts the staples. The tool is now ready for use.



78150-EFS-2

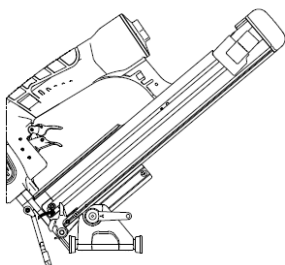
DRIVING FASTERS / CLEANING JAMMED STAPLE
CONTACT FIRE OPERATION FOR 78150-EFS-2

- (1) Hold the trigger.
- (2) Depress the contact arm against the work surface.



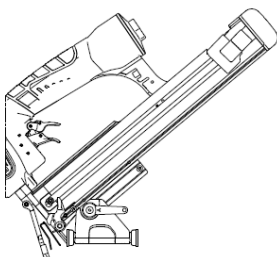
CLEANING JAMMED STAPLES

- (1) Take out the staples from the inside of the magazine.
- (2) Press the stopper and open door.
- (3) Remove staples that are jammed inside the nose by using a punch or slotted screwdriver.



78150-EFS-2

- (1) After removing the staples.
- (2) Close the door and now ready for use.



78150-EFS-2

MAINTENANCE

These tools are built for ease of maintenance. A few simple details will assure trouble-free operation and long tool life. Anyone who uses or

maintains the tool must read the safety and maintenance instructions. Study the schematic drawing before starting any repairs on the tool.

Air-operated tools must be inspected periodically, and worn or broken parts must be replaced to keep the tool operating safely and efficiently. The item on the maintenance chart must be checked often.

◆ COLD WEATHER CARE

When temperatures are below freezing, tools should be kept warm by any convenient, safe method. If this is not possible, the following procedure should be used to warm up the tool parts.

- ◇ Reduce the regulated air pressure to 30 psi.
 - ◇ Remove all fasteners from the tool.
 - ◇ Collect an air line and blank fire the tool. The reduced air pressure will be enough to free fire the tool. Slow speed operation tends to warm up the moving parts. Slowing up the piston helps bumper and the O-rings to become springy.

△ CAUTION △
Never free fire the tool at high pressure.

- ◇ Once the tool is warmed up, readjust the regulator to the proper working pressure and reload the tool.
- ◇ Tool operators working outdoors or in unheated areas in extremely cold temperatures should also:
 - ◇ Use recommended air tool oil with antifreeze in the lubricator.
 - ◇ Depending on the amount of tool use, take the tool apart and wash away any sludge with degreaser cleaner parts to keep the tool operating efficiently.

MAINTENANCE

△ CAUTION △
Never use kerosene or flammable solvents to clean the tool.

Cleaning air-operated tools with solvents remove the thin coating of grease applied to the cylinder wall and "O" rings at the factory. To replace this coating of grease, use LITHIUM grease or equivalent on parts.

- ◇ Open the drain on the air compressor tank to drain any moisture at least daily in extremely cold or humid weather. A few ounces of

anti-freeze in the tank will keep the air free of frost.

◆ TESTING THE TOOL AFTER SERVICING

After replacing any part or parts, it is important to check the tool for proper operation. This ensures that the tool was put together correctly, is safe to use, and will perform the job properly.

- ◇ Ensure that all hardware is tight.
- ◇ Ensure that the work contacting element is installed correctly in relation to the trigger, and that both parts move freely.
- ◇ Ensure that the magazine is properly attached.
- ◇ Ensure that the required safety information on the tool is legible.
- ◇ Use only approved fasteners in the tool and ensure that they are correct for the application.
- ◇ Ensure that a male air fitting is securely connected to the tool.
- ◇ Test the tool by driving fasteners into a workpiece identical to the tool's application.
- ◇ Check the tool for air leaks during testing and for the proper sequence of operation.
- ◇ Ensure that all fasteners are driven to the same depth and that the crown of the fastener is flush with the workpiece.

MAINTENANCE

◆ TOOL LUBRICATION

It is most important that the tool be properly lubricated by keeping the air line lubricator filled and correctly adjusted. Without proper lubrication the tool will not work properly, and parts will wear prematurely.

Use the proper lubricant in the air line lubricator. The lubricator should be of the low air flow or changing air flow type and should be kept filled to the correct level. Use only recommended lubricants. Substitutes may harm the rubber compounds in the tool "O" rings and other rubber parts.

If a filter / regulator / lubricator is not installed on the air system, air-operated tools should be lubricated at least once a day with 6 to 20 drops of oil, depending on the work environment, directly through the male air fitting in the tool housing.

Most minor problems can be resolved quickly and easily using the maintenance table that follows. If problems persist, contact your local dealer for assistance.

MAINTENANCE

△ CAUTION △
Disconnect the tool when performing repairs or clearing jams.

MAINTENANCE TABLE

ACTION	WHY	HOW
Drain air line filter (daily)	Prevent accumulation of moisture and dirt.	Open manual petcock (most air supply systems have such a valve)
Keep lubricator filled.	Keep tool lubricated.	Fill with recommended air tool lubricant
Clean filter element-then blow air through filter in direction opposite to normal flow.	Prevent clogging of filter with dirt.	Wash with soap and water or follow manufacturer's instructions.
Check that all screws on tool are tight.	Prevent air leakage and promote efficient tool operation.	Check screw daily.
Keep work contacting element working properly.	Promote operator safety and efficient tool operation.	Blow clean daily.
Keep magazine and feeder mechanism clean.	Prevent jamming of fasteners.	Blow clean daily.
Lubricate" O" rings that are replaced.	Assure long life and proper operation of tool.	Use lithium grease or equivalent.
Use only recommended replacement parts.	Keep tool operating efficiently.	Order any replacement parts needed from local service center dealer.

OPERATOR TROUBLESHOOTING

<p>△ CAUTION △</p>
<p>Disconnect the tool when performing repairs or clearing jams.</p>

PROBLEM	CORRECTIVE ACTION
Fasteners will not drive completely into wood	Adjust work contacting element (retract length). increase air pressure (do not exceed 120 psi)
Fasteners penetrate properly during normal operation but won't drive fully at faster speeds.	Increase air flow to tool-use larger air lines (3/8" ID minimum)
Fasteners drive too deeply into wood	Adjust work contacting element (extend length). Reduce air pressure.
Fastener jams in nose of tool.	Open front guide latch, release jammed fastener, and close latch securely)
Tool skips during operation-no fasteners are driven from time-to-time.	<p>Check magazine for proper fasteners. Magazine follower should slide freely. Clean as needed to remove debris.</p> <p>Make sure correct fasteners are being used. Use fasteners that meet specifications only.</p> <p>Increase air flow to tool-use larger air lines (3/8 ID minimum)</p> <p>Adjust work contacting element where available.</p>
Tool operates, but no fasteners are driven.	<p>Check magazine for proper fasteners. Fasteners should slide freely with no follower pressure.</p> <p>Open front guide latch or loosen magazine knob and check for jams or debris in nose area. Clear, as necessary.</p> <p>Increase air pressure (do not exceed 120 psi)</p>
Air leaks at cap when tool is connected to air	Tighten cap screws.

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