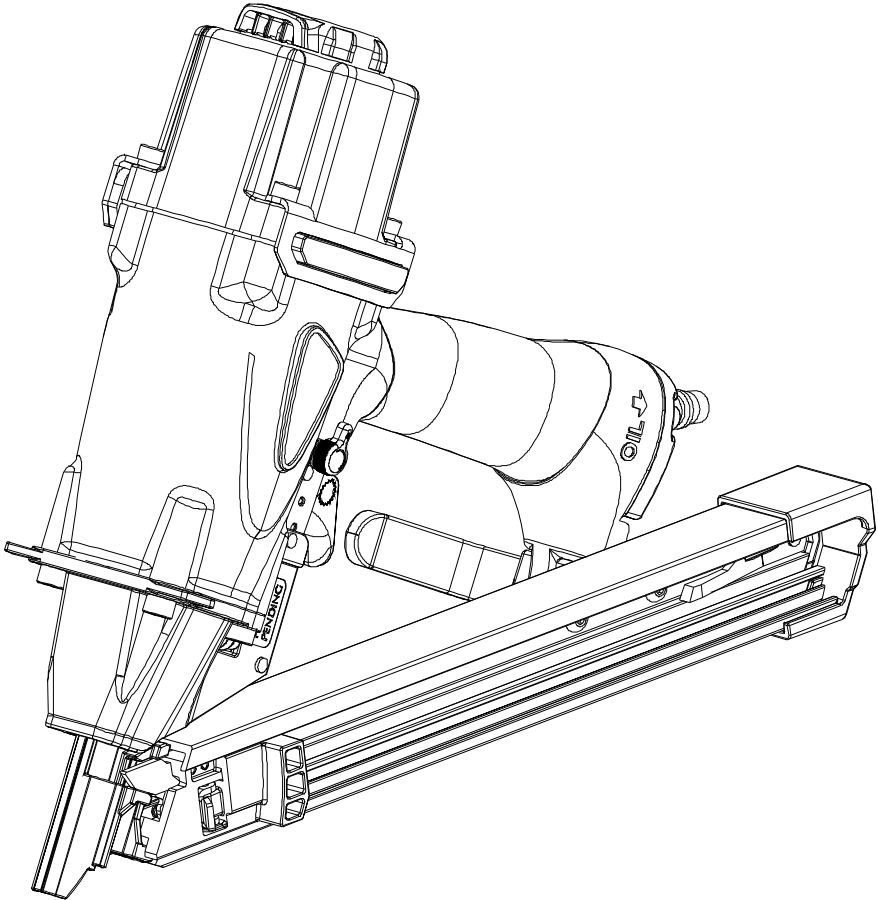


USERS MANUAL

XR150A/XR250/XR250S

Metal Connector Nailer



WARNING

Failure to follow warning could result in DEATH OR SERIOUS INJURY.

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IMPORTANT INFORMATION

⚠️ WARNING

TO AVOID SERIOUS PERSONAL INJURY, ALL USERS AND EMPLOYERS/OWNERS MUST READ AND UNDERSTAND ALL INSTRUCTIONS IN THIS MANUAL BEFORE OPERATING OR MAINTAINING THIS TOOL.

Keep this manual for the safety warnings and precautions, operating, inspection, maintenance. Keep this manual and the receipt in a safe and dry place for future reference.

EXPLANATION OF THE NAILING ACTION

◆ SINGLE ACTUATION MECHANISM:

First, press the safety against the wood; next, pull the trigger to drive the fastener. After fastening once, fastening will not be possible again until the trigger is released and pressed again.

◆ CONTACT ACTUATION MECHANISM:

First, press the safety against the wood; next, pull the trigger to drive the fastener. First. Pull the trigger; next, press the safety against the wood to drive the fastener. If the trigger is held back, a fastener will be driven each time the safety is pressed against the wood.

◆ FULL SEQUENTIAL ACTUATION MECHANISM:

First, press the safety against the wood; next, pull the trigger to drive the fastener. Follow the same sequence to continue driving fasteners.

GENERAL SAFETY RULES

WORK AREA

- ◆ **KEEP THE WORK AREA CLEAN AND WELL LIGHTED.**
Cluttered benches and dark areas increase the risks of accidents.
- ◆ **DO NOT OPERATE THE TOOL IN EXPLOSIVE ATMOSPHERES,** such as in the presence of flammable liquids, gases, or dust. The tool creates a spark which may ignite flammable liquids, gases or dust.
- ◆ **KEEP VISITORS AWAY.** Do not let visitors handle the tool. All visitors should be kept safety away from work area.
- ◆ **NEVER ENGAGE IN HORSEPLAY WITH THE TOOL.**
Respect the tool as a working implement.

PERSONAL SAFETY

- ◆ **OPERATORS AND OTHERS IN WORK AREA MUST WEAR SAFETY GLASSES WITH SIDE SHIELDS.** When operating the tool, always wear safety glasses with side shields, and make sure others in work area wear safety glasses. Safety glasses must conform to the requirements of American National Standards Institute, ANSI Z87.1 and provide protection against flying particles both from the front and side.

The employer must enforce the use of safety glasses by the tool operator and others in work area.

- ◆ **ALWAYS WEAR EAR AND HEAD PROTECTION.** Always wear ear protection to protect your ears from loud noise, Always wear head protection to protect your head from flying objects.
 - ◆ **USE SAFETY EQUIPMENT.** A dust mask, non-skid safety shoes and a hard hat must be used for the applicable conditions. Wear a full face shield if you are producing metal filings or wood chips.
 - ◆ **DRESS PROPERLY.** Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts and increases the risk of injury.
 - ◆ **STAY ALERT, WATCH WHAT YOU ARE DOING AND USE COMMON SENSE WHEN OPERATING A POWER TOOL.** Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating the tool may cause serious injury.
 - ◆ **AVOID UNINTENTIONAL FIRING.** Keep fingers away from trigger when not driving fasteners, especially when connecting the tool to the air supply.
 - ◆ **DO NOT OVERREACH.** keep proper footing and balance at all times. Proper footing and balance enable better control of the tool in unexpected situations.
 - ◆ **MAKE SURE AIR HOSE IS FREE OF SNAGS AND OBSTRUCTIONS. DO NOT ATTACH AN AIR HOSE OR TOOL TO YOUR BODY.** Entangled or snarled hoses can cause a loss of balance or footing in addition to unintentional tool operation. Attach the hose to the structure to reduce the risk of loss of balance of the hose shifts.
- ### **TOOL USE AND CARE**
- ◆ **NEVER POINT TOOL AT YOURSELF OR OTHERS IN WORK AREA.** Always assume the tool contains fasteners. Never point the tool at yourself or others, whether it contains fasteners or not. If fasteners are mistakenly driven, it can lead to severe injuries. Never engage in horseplay with the tool. Respect the tool as a working implement.
 - ◆ **KEEP FINGERS AWAY FROM TRIGGER WHEN NOT DRIVING FASTENERS TO AVOID ACCIDENTAL FIRING.** Never carry the tool with finger on trigger since you could drive a fastener unintentionally and injure yourself or someone else. Always carry the tool by the handle only.
 - ◆ **NEVER MODIFY OR ALTER A TOOL.** Doing so may cause malfunction and personal injuries.
 - ◆ **KNOW THIS TOOL.** Read manual carefully, learn its applications and limitations, as well as the specific potential hazards related to this tool.
 - ◆ **USE ONLY FASTENERS THAT ARE RECOMMENDED FOR YOUR MODELS.** Do not use the wrong fasteners or load the fasteners incorrectly.
 - ◆ **CHECK FOR MISALIGNMENT OR BINDING OF MOVING PARTS, BREAKAGE OF PARTS, AND ANY OTHERS**

CONDITION THAT MAY AFFECT THE TOOL'S OPERATION.

If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.

- ◆ **CHECK SAFETY BEFORE USE.** Make sure the safety operates properly. Never use the tool unless the safety is operating properly, otherwise the tool could drive a fastener unexpectedly. Do not tamper with or remove the safety, otherwise the safety becomes inoperable.
- ◆ **DO NOT USE TOOL IF TRIGGER DOES NOT ACTUATE PROPERLY.** Any tool that cannot be controlled with the trigger is dangerous and must be repaired.
- ◆ **NEVER USE TOOL WHICH IS DEFECTIVE OR OPERATING ABNORMALLY.** If the tool appears to be operating unusually, making strange noises, or otherwise appears defective, stop using it immediately and arrange for repairs by an authorized service center.
- ◆ **MAINTAIN TOOLS WITH CARE.** Keep the tool clean and lubricated for better and safer performance.
- ◆ **NEVER CARRY THE TOOL BY AIR HOSE.**
- ◆ **STORE TOOLS OUT OF THE REACH OF CHILDREN AND OTHER UNTRAINED PEOPLE.** Tools are dangerous in the hands of untrained users.
- ◆ **PLACE TOOL PROPERLY ON WORKPIECE.** Do not drive fasteners on top of other fasteners or with the tool at too steep of an angle; the fasteners can ricochet and hurt someone.
- ◆ **DO NOT USE THE TOOL AS A HAMMER.**
- ◆ **KEEP ALL SCREWS AND COVERS TIGHTLY IN PLACE.**
- ◆ **KEEP FACE, HANDS AND FEET AWAY FROM FIRING HEAD AT ALL TIMES.** Never place your face, hands or feet near the firing head.
- ◆ **DO NOT DISCONNECT AIR HOSE FROM TOOL WITH FINGER ON TRIGGER.** The tool can fire when re-connected to an air supply.
- ◆ **DO NOT LOAD FASTENERS WITH TRIGGER PULLED OR SAFETY DEPRESSED.**
- ◆ **NEVER PLACE A HAND OR ANY PART OF BODY IN FASTENER DISCHARGE AREA OF TOOL.**
- ◆ **DO NOT DRIVE FASTENERS INTO THIN BOARDS OR NEAR CORNERS AND EDGES OF WORKPIECE.** The fasteners can be driven for a way from the workpiece and hit someone.
- ◆ **DISCONNECT AIR HOSE FROM TOOL WHEN:**
 - 1). Doing maintenance and inspection;
 - 2). Turning the Exhaust deflector;
 - 3). Clearing a jam;
 - 4). It is not in use;
 - 5). Leaving work area;
 - 6). Moving it to another location;
 - 7). Handing it to another person.

Never attempt to clear a jam or repair the tool unless you have disconnected air hose from the tool and removed all remaining fasteners from the tool. The tool should never be left unattended since people who are not familiar with the tool might handle it and injure themselves.

TOOL SERVICE

- ◆ **USE ONLY ACCESSORIES THAT ARE IDENTIFIED BY THE MANUFACTURER FOR THE SPECIFIC TOOL MODEL**
- ◆ **USE OF UNAUTHORIZED PARTS OR FAILURE TO FOLLOW MAINTENANCE INSTRUCTIONS MAY CREATE A RISK OF INJURY**
- ◆ **USE ONLY THE LUBRICANTS SUPPLIED WITH THE TOOL OR SPECIFIED BY THE MANUFACTURE.**
- ◆ **TOOL SERVICE MUST BE PERFORMED ONLY BY QUALIFIED REPAIR PERSONNEL.**

AIR SOURCE

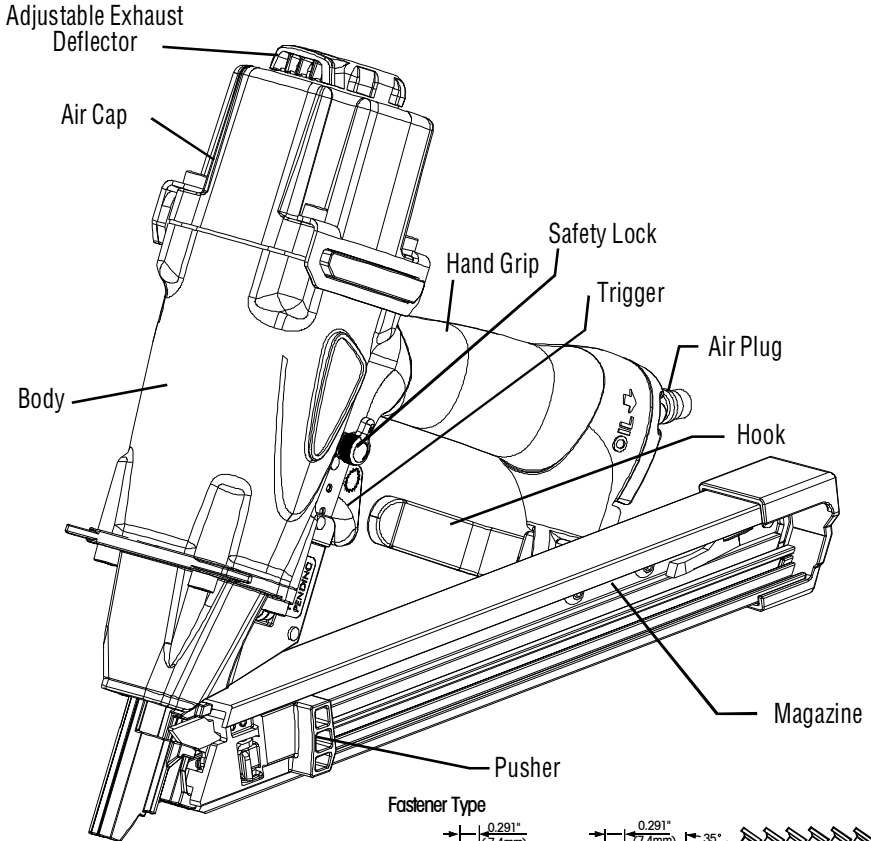
- ◆ **NEVER USE OXYGEN OR OTHER BOTTLED GASES AS A POWER SOURCE.** Explosion may occur. Combustible gases and other bottled gases are dangerous and may cause the tool to explode.
- ◆ **DO NOT EXCEED MAXIMUM RECOMMENDED AIR PRESSURE MARKED ON THE TOOL.** Use only clean, dry, regulated, compressed air within the rated pressure range marked on the tool. Never connect the tool to pressure as which potentially exceeds 200PSI the tool can burst.
- ◆ **DO NOT ABUSE THE AIR HOSE.** Protect all hoses from kinks, restrictions, solvents or sharp objects. Keep air hose away from heat, oil, sharp edges or moving parts. Replace damaged hoses immediately. Damaged hoses can burst or whip around.
- ◆ **CHECK ALL FITTINGS, HOSES, PIPES, CONNECTIONS AND COMPRESSOR BEFORE EACH USE OF THIS TOOL.** Repair or replace damaged or leaking hoses and connections immediately. Damage to a hose or connection can cause a pressure hose to break and whip around the work area, and can lead to injury.

FUNCTIONAL DESCRIPTION AND SPECIFICATIONS

⚠ WARNING

Disconnect the tool from the air source before making any adjustments, changing accessories or storing the tool. Such precautionary safety measures reduce the risk of unintentional tool operation.

FIG. 1



SPECIFICATIONS

Normal Operating Pressure: 70–115PSI(0.5–0.8MPa)

Maintenance: Oiling

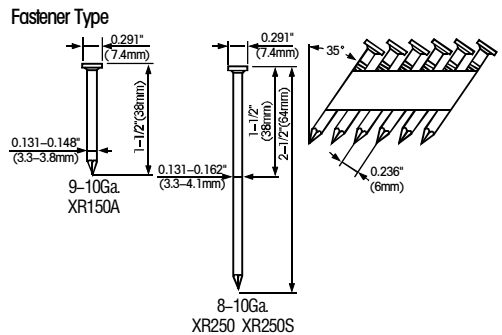
Firing Mode: Sequential Fire

Fastener Size Range:

XR150A: 1-1/2"(38mm)

XR250/XR250S: 1-1/2"(38mm) & 2-1/2"(64mm)

Product Size:



Model	Length	Width	Height	Weight	Magazine Capacity
XR150A	12.80"(325mm)	3.74"(95mm)	12"(305mm)	5.24lbs(2.38kgs)	35PCS
XR250	17.52"(445mm)	4.09"(104mm)	13.62"(346mm)	6.09lbs(2.77kgs)	55PCS
XR250S	13"(330mm)	4.09"(104mm)	13.62"(346mm)	5.68lbs(2.58kgs)	35PCS

FEATURES

- ◆ 360°adjustable exhaust.
- ◆ Anti-dry-firing design.
- ◆ Fire lock prevents accidental firing when the tool is not in use.

ASSEMBLY/INSTALLATION

Follow the instructions below to prepare your tool for operation.

1. All tool operators and their immediate supervisors must become familiar with the operator safety instructions before operating the tool.
2. Included with each tool are one copy of these Operating/Safety Instructions. Keep this publications for future reference.
3. Install a filter, regulator, lubricator unit and moisture trap on your air delivery system per the manufacturer's instructions for these devices. Additionally, install a pressure gauge as close as practical to the tool, preferably within 10 feet.
4. Select hoses with a minimum inner diameter of 1/4 inches and a maximum length of 100 feet.

⚠ WARNING

To reduce the risk of injury from a hose bursting, select hoses that are rated at least 200PSI.

5. Select fittings that are appropriate size for the selected hoses. The tool and air hose must have a hose coupling so that all pressure is removed from the tool when the coupling joint is disconnected.

⚠ WARNING

Never use non relieving couplers and/or female quick disconnect couplings on the tool. Non relieving couplings and female couplings will trap high pressure air in the tool when the air line is disconnected. This will leave the tool charged with enough air after it has been disconnected to drive a nail. 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.

6. Set the regulator at the air delivery system to a PSI that falls within the tool's operating range of 70–115PSI. The correct pressure is the lowest pressure that will do the job.

OPERATION

LUBRICATION

⚠ WARNING

USE ONLY THE AIR TOOL LUBRICANTS SUPPLIED WITH THE TOOL. Do not use other lubricants as they may damage the tool.

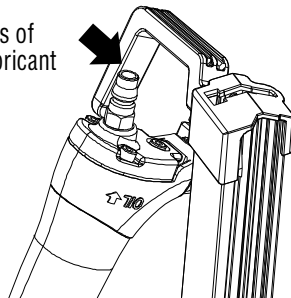
If the tool is not used with an in-line lubrication system on the air supply it is necessary to periodically lubricate the tool with air tool lubrication.

Under low use, lubricate once a day. Under heavy use, lubricate twice a day. To lubricate, insert 2–3 drops of lubricant into the air supply fitting attached to the tool

handle (FIG 2). Using too much oil will cause it to collect in the tool and be noticeable in the exhaust.

FIG. 2

2–3 Drops of
Air Tool Lubricant



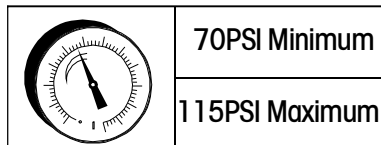
Do not use detergent oil, WD-40, transmission fluid, motor oil, or other lubricants not specifically designated as air tool lubricants. These lubricants will cause accelerated wear to the seals, o-rings, and bumpers in the tool, resulting in poor tool performance and frequent maintenance.

ADJUSTING AIR PRESSURE

Adjust the air pressure at recommended operating pressure 70–115PSI according to the length of nails and the hardness of workpiece.

The correct air pressure is the lowest pressure which will do the job. Using the tool at a higher than required air pressure unnecessarily over stresses the tool. Don't exceed 115PSI.

FIG. 3



CONNECTING AIR SUPPLY

⚠ WARNING

Never use oxygen or other bottled gases as a power source. Explosion may occur. Combustible gases and other bottled gases are dangerous and may cause the tool to explode.

⚠ WARNING

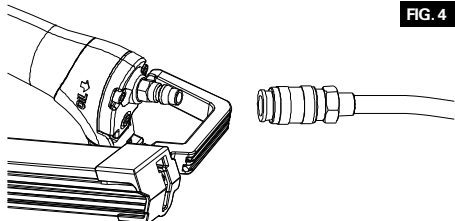
Do not exceed maximum recommended air pressure marked on the tool. Verify prior to using the tool that the air source has been adjusted within the rated air-pressure rang. Be sure the air pressure gauge is operating properly and check it at least twice a day. Tools operated in excess

of their maximum pressure rating may operate abnormally or burst resulting in personal injury.

⚠️ WARNING

To connect the tool to the compressor only use pneumatic air hoses that meet the following criteria:

1. Minimum hose pressure rating, 200PSI.
2. Minimum hose inner diameter, 1/4 in.
3. Maximum hose length, 100 ft.



Connect the air supply:

- Snap the air hose onto the quick connector.
- Check for air leakage. If leakage is noted, stop using the tool immediately and performed by qualified repair personnel.
- Be sure the air pressure gauge is operating properly and check it at least twice a day.

TOOL TESTING

⚠️ DANGER

OPERATORS AND OTHERS IN WORK AREA MUST WEAR SAFETY GLASSES WITH SIDE SHIELDS WHICH CONFORMS TO ANSI Z87.1 SPECIFICATIONS.

⚠️ WARNING

NEVER USE TOOL UNLESS SAFETY IS OPERATING PROPERLY.

This tool has a Sequential Trip Mechanism for use when precision nail placement is necessary. You must first depress the nail point where you want to drive a nail is driven, completely release the trigger and lift the tool off the work surface.

This tool is not designed for contact trip operation, and not available for contact trip valve units. And it's safety mechanism is different from another nailers.

When nails are loaded and the trigger is depressed, the safety comes down and when the safety touches the workpiece, a nails driven.

This tool is equipped with a lockout feature that prevents the tool from being activated when the are 5 or less nails in the magazine.

Before actually beginning the nailing work, test the tool by using the check list below. Conduct the test in the following order.

If abnormal operation occurs, stop using the tool and performed by qualified repair personnel immediately.

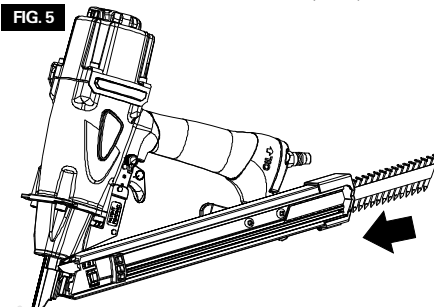
1. Disconnect air hose from tool. Remove all nails from tool.
 - ALL SCREWS MUST BE TIGHTENED. If any screws are loose, tighten them.
 - THE SAFETY AND TRIGGER MUST MOVE SMOOTHLY.
2. Adjust the air pressure to 70PSI, connect the air hose. Do not load any nails in the tool.
 - THE TOOL MUST NOT LEAK AIR.
3. Hold the tool downward and pull the trigger with pulling back the pusher.
 - THE TOOL MUST NOT DRIVE
4. With finger off the trigger, depress the safety against the workpiece.
 - THE TOOL MUST NOT DRIVE
5. Without touching the trigger, first depress the safety against the workpiece. Pull the trigger with pulling back the pusher.
 - THE TOOL MUST NOT DRIVE
6. With the tool off the workpiece, pull the trigger. Depress the safety against the workpiece.
 - THE TOOL MUST NOT DRIVE

NAIL LOADING

⚠️ WARNING

When loading the tools magazine, check that the nail tips contact the wear rail and slide smoothly against the surface of the magazine. If the nails are not loaded properly, the tool will misfire and nails can be deflected, causing the tool to react in an unexpected manner, and damage the tool.

1. Connect the tool to the air resource.
2. Hold nailer with magazine tilted downward. Insert stick of nailer nails from rear of magazine (FIG 5).



⚠️ WARNING

The XR250/XR250S have two separate nail channels. The lower position for 1-1/2" (38mm) length and the upper position for 2-1/2" (64mm) length. When nails are loaded in the magazine, the nail gate can not be charged to the other position.

3. Slide nails all the way to the front of magazine (FIG 9).
4. Pull pusher towards rear of magazine beyond the last nail, then release to engage pusher to strip of nails (FIG 10).

XR250/250S LOAD NAILS

FIG. 6

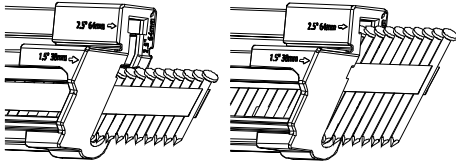
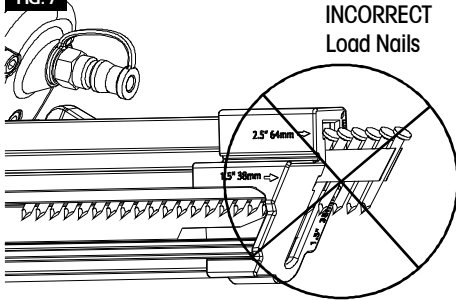


FIG. 7



Do not insert different length sized nail strips at same time. If do so, it could result in damaging nail strips and jamming.

FIG. 8

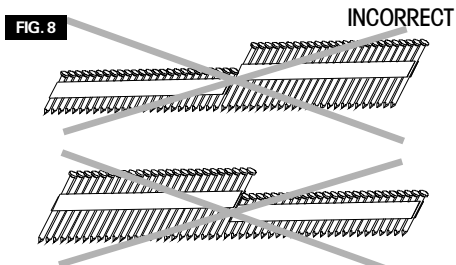


FIG. 9

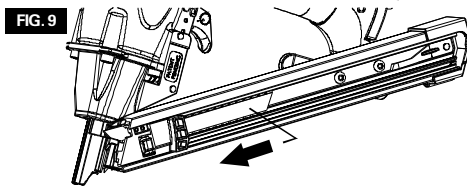
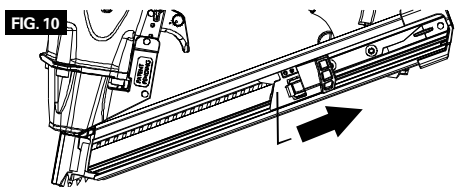


FIG. 10



REMOVING NAILS:

⚠ WARNING

Always disconnect tool from air supply before removing nails from magazine. This avoids the risk of unintentional operation.

⚠ WARNING

Do not disconnect air hose from the tool with finger on the trigger or safety depressed. The tool can fire when reconnected to air supply.

1. Disconnect air supply.
2. Depress the pusher tab to disengage pusher from the nails (FIG 11).
3. Slowly slide pusher forward past the nails to the nosepiece (FIG 12). Remove nails by releasing the pusher spring and sliding nails backwards.
4. Depress the magazine tab then slid nails past nail stopper tab and out of the magazine (FIG 13,14).

FIG. 11

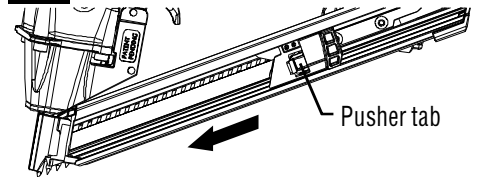


FIG. 12

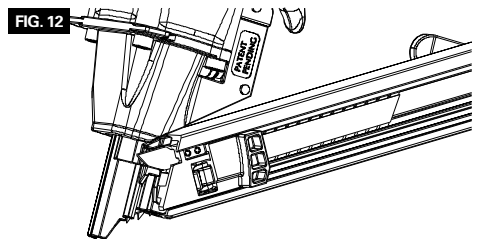


FIG. 13

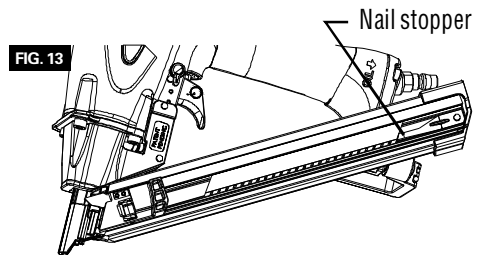
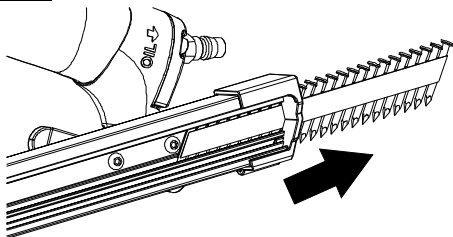


FIG. 14



METHODS OF OPERATION

The Sequential Triggering system gets its name from the "sequence" required to drive a fastener.

1). First, be sure the position and place the tip of the nail into the metal connectors preformed hole. (FIG 15)

- Keep the tool vertically when driving.
- Don't push the tool forward when positioning the first nail in metal hole. (FIG 16)

2). Then hold the moveable nose fully against the work surface, then pull the trigger.

3). To drive a second nail the operator must lift the tool from the work surface, release the trigger and then repeat the above sequence.

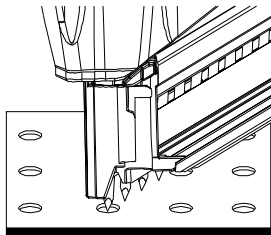
⚠ WARNING

To avoid serious injury from fasteners and flying debris when installing metal connectors nailer

1. Use the recommended type metal connector nails.
2. Use only one stick of metal connector nails at a time.
3. Metal connector nails are not designed to penetrated metal. When installing metal connectors, always place the exposed point of the metal connector nail into the metal connector's pre-formed hole and orients, so the nail is perpendicular to the hole before attempting to drive a fastener.

FIG. 15

CORRECT
Placement of nail



INCORRECT
Placement of nail

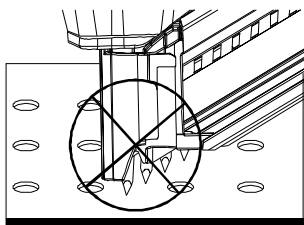
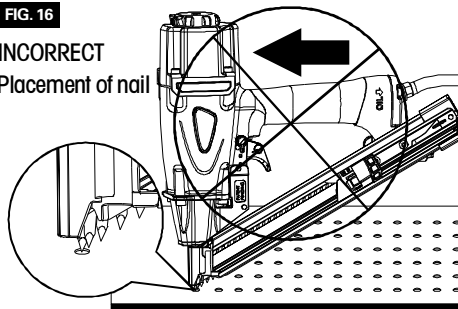


FIG. 16

INCORRECT
Placement of nail



NOTE:

- Always handle nails and package carefully. If nails are dropped, collating bent may be broken, which will cause mis-feeding and jamming.
- After nailing:
 - 1). Disconnect air hose from the tool.
 - 2). Remove all nails from the tool.
 - 3). Supply 5-10 drops of pneumatic tool lubricant into the air plug on the tool.
 - 4). Open the petcock on the air compressor tank to drain any moisture.

COLD WEATHER OPERATION

⚠ WARNING

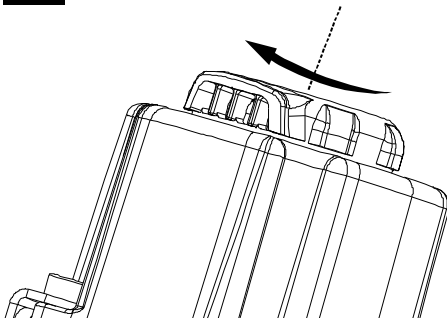
DO NOT USE A FROZEN TOOL. Allow tool to thaw before using. Moisture frozen in the tool may impede internal components resulting in the risk of injury and/or tool damage.

When using the tool in cold conditions the tool will cycle slower than usual while driving the first nails. The cycle rate will increase as the tool warms up. Keep tool warm to avoid reduced cycle rate.

ADJUSTING THE EXHAUST

The adjustable exhaust on the cap of the tool allows users to direct the exhaust according to operator preference. To adjust the direction, turn the exhaust cap in the desired direction.

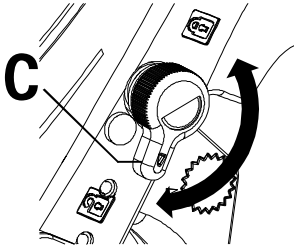
FIG. 17



TRIGGER LOCK

The nailer is equipped with a trigger locker C. If it is in lock position, tool is restricted to work and be safe. When it is in un-lock position, the tool is in work status.

FIG. 18



MAINTENANCE

CLEANING

⚠WARNING

When cleaning a tool be careful not to disassembly any portion of the tool since internal components may be misplaced or safety components may be improperly mounted. Certain cleaning agents such as gasoline, carbon tetrachloride, ammonia, etc. may damage plastic parts and o-rings.

⚠WARNING

Do not attempt to clean by inserting pointed objects through openings. Sharp edges may damage internal components causing a serious hazard.

Ventilation openings, the work contact element, and the trigger must be kept clean and free of foreign matter.

Clean the magazine. Remove metal or wooden chips which may have accumulated in the magazine. Periodically clean magazine with compressed air.

STORAGE

⚠WARNING

Keep out of reach of children and personnel unfamiliar with tool operation. Lock the storage area. Tools are dangerous in the hands of personnel unfamiliar with the tool.

When not in use, the tool should be disconnected and stored in the storage case in a warm and dry place. When

tool will not be in use for an extended period, apply a thin coat of the lubricant to the steel parts to avoid rust. Do not store the tool in a cold weather environment.

HOOKUP INSTRUCTIONS FOR TOOL TO AIR SUPPLY

NOTE:

For better performance, install a 3/8 inch quick plug(1/4 inch NPT threads) with an inside diameter of 0.315 inch (8mm) on the nailer and a 3/8 inch quick coupler on the air hose.

1. With trigger locker in lock position, plug compressor into electrical outlet.
2. Close pressure regulator by turning all the way to the left. Turn compressor ON and let it pump all the way up to automatic shut-off pressure.
3. Attach air hose to regulator outlet. Adjust pressure regulator by turning to the right so that outlet pressure is between 70PSI to 115PSI.
4. Load fasteners into nailer.
5. Point the nailer in a safe direction while attaching to air hose.
6. Turn the trigger locker in untook position. Nailer is ready for use. You may need to adjust outlet pressure to achieve proper fastener depth.

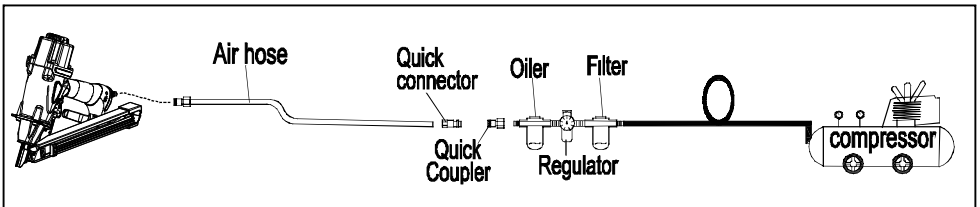
RECOMMENDED HOOKUP

MINIMUM COMPONENTS REQUIRED FOR HOOKUP

Air compressor: The air compressor must be able to maintain a minimum of 70PSI when the nailer is being used. An inadequate air supply can cause a loss of power and inconsistent driving.

Pressure regulator: A pressure regulator is required to control the operating pressure of the nailer between 70PSI and 115PSI .

Air supply hose: Always use air supply hoses with a minimum working pressure rating equal to or greater than the pressure from the power source, or 150PSI, whichever is greater. Use 1/4 inch air hose for runs up to 50 feet. Use 3/8 inch air hose for 50 feet, run or longer.



TROUBLE SOLVING

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Trigger valve housing leaks air	O-ring cut or cracked	Replace O-ring
Trigger leaks air	O-ring cut or cracked	Replace trigger valve assembly
Nose leaks air	Loose nose screws	Tighten screws and recheck
	O-ring cut or cracked	Replace O-ring
	Bumper cracked or worn	Replace gasket
Deflector leaks air	Damaged gasket	Replace gasket
	Cracked or worn head valve piston	Replace head valve piston
	Loose deflector screws	Tighten screws and recheck
Failure to cycle	Air supply restriction	Check air supply equipment
	Tool dry lack of lubrication	Use air tool lubricant
	Worn head valve O-ring	Replace O-ring
	Broken head valve spring	Replace head valve spring
	Head calve stuck in cap	Disassemble/check/lubricate
	Trigger valve O-ring cut or cracked	Replace trigger valve assembly
	Moveable nose broken	Replace moveable nose
Moveable nose too far from work piece	Place nail point in metal connector hole/make sure tool is not tipped so magazine is in contact with work surface	
Lack of power slow to cycle	Tool dry, lacks lubrication	Use stated air tool lubricant
	Broken head valve spring	Replace head valve spring
	O-ring cut or cracked/gasket damaged	Replace O-ring/gasket
	Exhaust blocked	Check top seal, head valve, deflector cover and replace
	Trigger valve worn/leaks	Replace trigger valve assembly
	Dirt/grime built up on driver	Disassemble to remove driver, clean driver
Skipping fasteners; intermittent feed	Worn magazine	Replace magazine
	Dry/dirty magazine	Clean/lubricate using stated air tool lubricant
	Broken/chipped driver	Replace driver(check driver piston O-ring)
	Trigger valve O-ring cut or cracked	Replace trigger valve assembly
	Leaking deflector gasket	Tighten screws; replace gasket
	Wrong sized fasteners	Use only recommended fasteners
	Bent/damaged fasteners or collation	Discontinue using these fasteners
Skipping fasteners; intermittent feed	Loose magazine nose screws	Tighten all screws
	Low air pressure	Check air supply system to tool
	Damaged pusher spring	Replace spring
	Tool dry, lacks lubrication	Use stated air tool lubricant
	Worn driver piston O-ring	Replace O-ring, check driver
Air restriction/inadequate air flow through socket and plug	Replace quick disconnect fittings	

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Skipping fasteners; intermittent feed	Dirt/grime in driver channel	Disassemble and clean driver and sleeve
	Worn bumper	Replace bumper, check driver and driver piston O-ring
Fasteners jam in tool	Driver channel worn	Replace fixed nose
	Wrong sized fastener	Use only recommended fasteners
	Bent/damaged fasteners or collation	Discontinue using these fasteners
	Loose magazine/nose screws	Tighten all screws
	Broken/chipped driver	Replace driver
Fasteners misses metal connector hole	Damaged moveable nose	Replace moveable nose
	Nail not fully positioned in the drive channel	Check for debris/collation in drive channel; remove debris/remove nails and replace with new strip
	Hole not properly located with point of nail	Place nail point in metal connector hole before firing the tool
Nail point not visible	Trigger stem depressed	Release trigger; disconnect and reconnect air; replace trigger valve assembly
	Nose spring broken	Replace nose spring
	Nail jammed in drive channel	Disconnect air/clear jam
	Less than 5 nails/tool in lockout mode	Disconnect from air and add new strip of nails