

# **Grizzly** **Industrial, Inc.**®

## **MODEL T27338** **3-IN-1 FLOORING NAILER**

**OWNER'S MANUAL**  
*(For models manufactured since 01/15)*



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#BL18231 PRINTED IN CHINA



## **WARNING!**

This manual provides critical safety instructions on the proper setup, operation, maintenance, and service of this machine/tool. Save this document, refer to it often, and use it to instruct other operators.

Failure to read, understand and follow the instructions in this manual may result in fire or serious personal injury—including amputation, electrocution, or death.

The owner of this machine/tool is solely responsible for its safe use. This responsibility includes but is not limited to proper installation in a safe environment, personnel training and usage authorization, proper inspection and maintenance, manual availability and comprehension, application of safety devices, cutting/sanding/grinding tool integrity, and the usage of personal protective equipment.

The manufacturer will not be held liable for injury or property damage from negligence, improper training, machine modifications or misuse.



## **WARNING!**

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, cement and other masonry products.
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: Work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

# SECTION 1: SAFETY

## **WARNING**

### **For Your Own Safety Read Instruction Manual Before Operating This Equipment**

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words which are intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures.

#### **DANGER**

Indicates an imminent hazardous situation which, if not avoided, **WILL** result in death or serious injury.

#### **WARNING**

Indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

#### **CAUTION**

Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury. It may also be used to alert against unsafe practices.

#### **NOTICE**

This symbol is used to alert the user to useful information about proper operation of the equipment.

## **WARNING**

### **Safety Instructions for Pneumatic Tools**

**KEEP ALL SAFETY DEVICES IN PLACE** and in working order.

**REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before operation.

**KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.

**DO NOT USE IN DANGEROUS ENVIRONMENT.** Do not use pneumatic tools in damp or wet locations, or where any flammable or noxious fumes may exist. Keep work area well lighted.

**KEEP CHILDREN AND VISITORS AWAY.** All children and visitors should be kept at a safe distance from work area.

**MAKE WORKSHOP CHILD PROOF** by locking the shop and shutting off air valves.

**DO NOT FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.

**USE THE RIGHT TOOL.** Do not force tool or attachment to do a job for which it was not designed.

**DO NOT USE UNDER INFLUENCE OF DRUGS OR ALCOHOL.**

# WARNING

## Safety Instructions for Pneumatic Tools

**USE PROPER AIR HOSE** for the tool. Make sure your air hose is in good condition and is long enough to reach your work area without stretching.

**WEAR PROPER APPAREL.** Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Non-slip footwear is recommended. Wear a protective hair covering to contain long hair.

**ALWAYS USE SAFETY GLASSES.** Also use a face or dust mask if operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.

**WEAR APPROVED HEARING PROTECTION.** Air escaping from pneumatic tools can exceed safe exposure limits and may cause hearing damage with prolonged exposure.

**AWKWARD POSITIONS.** Keep proper footing and balance at all times when operating tool. Do not overreach! Avoid awkward hand positions that make workpiece control difficult or increase the risk of accidental injury.

**REDUCE THE RISK OF UNINTENTIONAL FIRING.** Do not carry tool with hand on trigger and always disconnect from air when not in use.

**CHECK FOR DAMAGED PARTS.** Regularly inspect tool for any condition that may affect safe operation. Immediately repair or replace damaged or mis-adjusted parts before operating tool.

**DISCONNECT TOOLS** before servicing, changing accessories, or moving to another location.

**USE RECOMMENDED ACCESSORIES.** Consult this owner's manual or the manufacturer for recommended accessories. Using improper accessories will increase the risk of serious injury.

**NEVER LEAVE UNATTENDED TOOL CONNECTED TO AIR.** Disconnect the air hose and do not leave tool until it is relieved of any built up pressure.

**NEVER ALLOW UNTRAINED USERS TO USE THIS TOOL WHILE UNSUPERVISED.**

**IF YOU ARE UNSURE OF THE INTENDED OPERATION, STOP USING TOOL.** Seek formal training or research books or magazines that specialize in pneumatic tools.

**BE AWARE OF HOSE LOCATION WHEN USING PNEUMATIC TOOLS.** Hoses can easily become a tripping hazard when laid across the floor or spread out in a disorganized fashion.

**SECURE WORK.** When required, use clamps or vises to secure workpiece. A secured workpiece protects hands and frees both of them to operate the tool.

**MAINTAIN TOOLS WITH CARE.** Keep tools lubricated and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

# WARNING

## Additional Safety for Flooring Nailers

**HAND AND FOOT INJURIES.** Do not place your hands or feet near or under the nail point of entry. A nail/staple can deflect and tear through the surface of the workpiece, puncturing your hand or foot.

**COMPRESSED AIR RATING.** Do not connect the nailer to compressed air that exceeds 115 PSI.

**ACTUATING MECHANISM.** Be careful not to bump actuating mechanism when carrying or holding tool while connected to air. If bumped, the tool may accidentally shoot in dangerous direction.

**SAFE HANDLING.** Never point nailer at others! Carry nailer only by handle, never by any other part. Do not carry nailer by air hose.

**HOSE USAGE.** Make sure your air hose is designed for tool in use, is in good condition, and is long enough to reach your work area without stretching. However, an overly long air hose in the work area may be a tripping hazard.

**OPERATING QUESTIONS.** If you are not sure about intended operation, stop using nailer. Seek formal training, or research books or magazines that specialize in pneumatic tools.

**NAILING.** Avoid driving one nail/staple on top of another. The nail/staple may deflect and cause injury.

**AIR SOURCE.** Disconnect air source before installing nails/staples, clearing jam, moving to another work area, performing maintenance, or when tool is not in use. A nailer connected to air may fire accidentally, causing serious personal injury. DO NOT use check valve or any other fitting that allows air to remain in the tool.

**COMBUSTIBLE GASES.** Never connect nailer to pressurized oxygen or other combustible gases as a power source. Only use regulated compressed air.

**CLEANING.** Never use gasoline or other flammable liquids to clean nailer; vapors in nailer will ignite by a spark and cause it to explode.

**TOOL SERVICE.** If nailer is leaking air, damaged, or not working correctly, DO NOT use before repairing.

**HAMMER SAFETY.** DO NOT use hammer with damaged handle or loose head. Make sure nobody is standing close enough to be hit when you swing hammer.

# CAUTION

No list of safety guidelines can be complete. Every shop environment is different. Always consider safety first, as it applies to your individual working conditions. Use this and other tools with caution and respect. Failure to do so could result in serious personal injury, damage to equipment, or poor work results.

# SECTION 2: INTRODUCTION

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## Manual Accuracy

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We are proud to offer this document with your new tool! We've made every effort to be exact with the instructions, specifications, drawings, and photographs of the tool we used when writing this manual. However, sometimes we still make an occasional mistake.

Also, owing to our policy of continuous improvement, your tool may not exactly match the manual. If you find this to be the case, and the difference between the manual and tool leaves you in doubt, immediately call our technical support for updates or clarification.

For your convenience, we post all available documentation on our website at [www.grizzly.com](http://www.grizzly.com). Any updates to this document will be reflected on our website as soon as complete.

## Contact Info

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We stand behind our tools. If you have any service questions, parts requests or general questions about the product, please call or write us at the location listed below.

Grizzly Technical Support  
1815 W. Battlefield

Springfield, MO 65807

Phone: (570) 546-9663

Email: [techsupport@grizzly.com](mailto:techsupport@grizzly.com)

We want your feedback on this manual. What did you like about it? Where could it be improved? Please take a few minutes to give us feedback.

Grizzly Industrial, Inc.  
C/O Technical Documentation Manager  
P.O. Box 2069

Bellingham, WA 98227-2069

Email: [manuals@grizzly.com](mailto:manuals@grizzly.com)

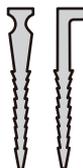
## Specifications

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Weight .....	11.2 lbs.
Length x Width x Height .....	20 x 3½ x 23 in.
Operating Pressure .....	70–115 PSI
Magazine Capacity .....	100 Cleat Nails or 120 Staples
Fastener Length .....	1½–2 in.
Fastener Size ....	16-Ga. T-Cleat Nails, 16-Ga. L-Cleat Nails, 15.5 Ga. ½ in. Crown Staples

16 Ga.  
L- or T-Cleat Nail  
1½"–2" Long  
(100 Pc. Capacity)

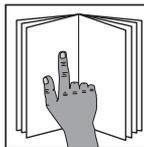
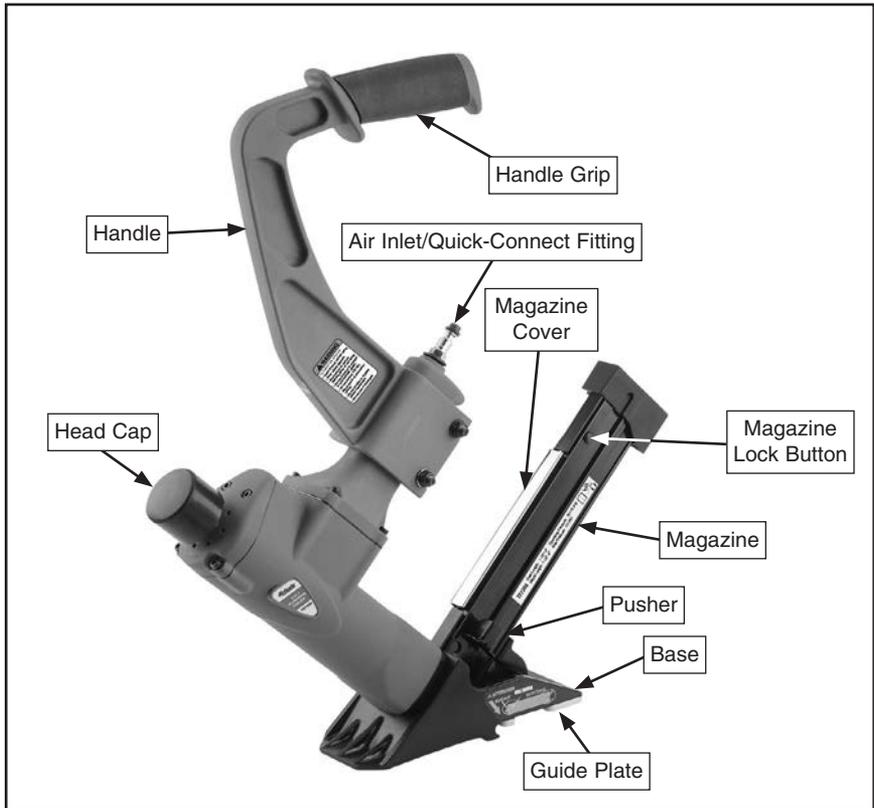


15.5 Ga.  
½" Crown Staple  
1½"–2" Long  
(120 Pc. Capacity)



# Identification

Become familiar with the names and locations of the controls and features shown below to better understand the instructions in this manual.



## **⚠ WARNING**

To reduce your risk of serious injury, read this entire manual **BEFORE** using tool.

# SECTION 3: SETUP

## Unpacking

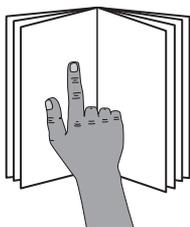
Your tool was carefully packaged for safe transportation. Remove the packaging materials from around your tool and inspect it. If you discover the tool is damaged, *please immediately call Customer Service at (570) 546-9663 for advice.*

Save the containers and all packing materials for possible inspection by the carrier or its agent. Otherwise, filing a freight claim can be difficult.

When you are completely satisfied with the condition of your shipment, inventory the contents.

If any non-proprietary parts are missing (e.g., a nut or a washer), we will gladly replace them; or for the sake of expediency, replacements can be obtained at your local hardware store.

### **WARNING**



**This tool presents serious injury hazards to untrained users. Read through this entire manual to become familiar with the controls and operations before starting the tool!**

## Inventory

### Model T27338 Inventory (Figures 1-2)

- A. Flooring Nailer Body ..... 1
- B. Arm ..... 1
- C. Safety Glasses..... 1
- D. Hammer ..... 1
- E. Closed-End Wrench 13/16mm..... 1
- F. Bottle for Oil ..... 1
- G. L-Bolts M8-1.25..... 2
- H. Lock Nuts M8-1.25..... 4
- I. Guide Plate for 1/2" Hardwood Floors. 1
- J. Flat Washers 8mm..... 4
- K. Hex Wrenches 2.5, 3, 4, 5mm..... 1 Ea.

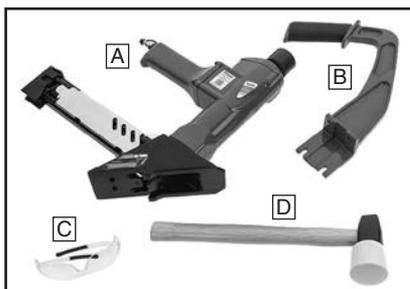


Figure 1. Model T27338 inventory.

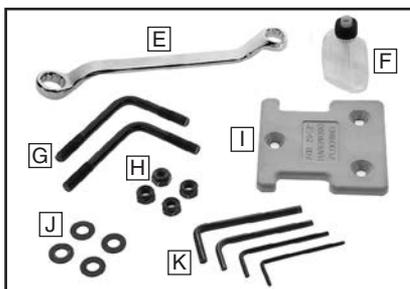


Figure 2. Model T27338 additional inventory.

# Compressed Air System

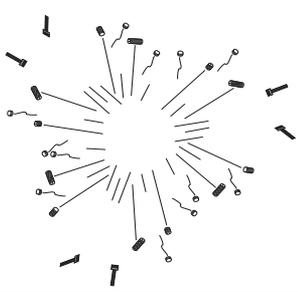
The Model T27338 is designed to be operated at 70-115 PSI using clean, dry, regulated, compressed air. **DO NOT exceed the 115 PSI maximum operating pressure for your model.** Before using, regulate the air pressure on your air compressor to 70 psi.

An in-line filter/lubricator/regulator unit, depicted in **Figure 3**, can be installed and should be located as close to the nailer as possible.

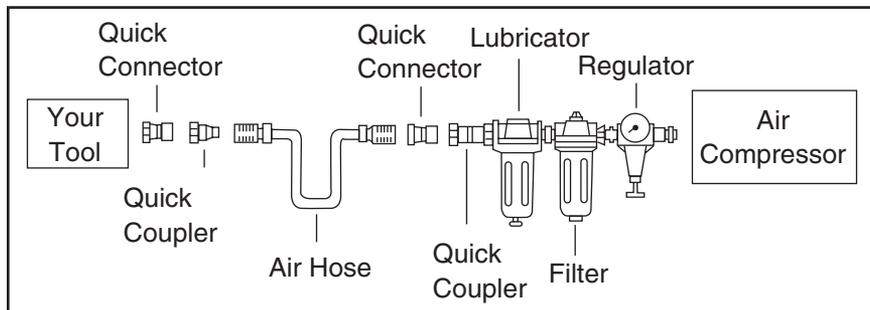
The filter/lubricator/regulator unit will protect your tool from damaging water build-up, allow you to adjust and maintain constant air pressure to your tool, and save you the inconvenience of having to manually lubricate your tool every time you use it.

Check the current Grizzly catalog for availability of this unit. If you plan on installing a filter/lubricator/regulator unit in your compressed air system, always follow the connection instructions that come with the unit.

**⚠ WARNING**



**Exceeding maximum permissible operating pressure may cause nailer to explode, blowing metal fragments in all directions. To protect yourself and bystanders from serious personal injury, DO NOT allow your air compressor to exceed the recommended pressure when connected to this nailer!**



**Figure 3.** Typical filter/lubricator/regulator installation order.

# Assembly

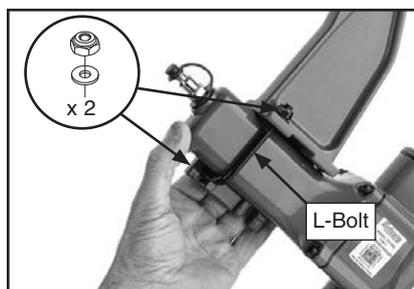
## To assemble flooring nailer:

1. Place handle against flooring nailer body, as shown in **Figure 4**, making sure it is centered from top to bottom.



**Figure 4.** Handle placed against flooring nailer.

2. Slide an L-bolt into mounting hole and slot in handle and secure with (2) 8mm flat washers and (2) M8-1.25 lock nuts, as shown in **Figure 5**.



**Figure 5.** L-Bolt installed.

**Tip:** Place thread locking compound on lock nuts before threading onto L-bolts, to prevent nuts from loosening.

3. Repeat **Step 2** to install remaining L-bolt. The handle should appear like the one in **Figure 6** when installed.



**Figure 6.** Handle installed onto nailer.

# Testing Firing Mechanism

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The nailer should not fire when connected to the air source unless it is fired by hitting the head cap with the hammer. If the firing mechanism is not working properly, the nailer could fire immediately when connected to the air source.

Before loading the nailer, check the firing mechanism to ensure safe use.

## To check firing mechanism:

1. DISCONNECT NAILER FROM AIR SOURCE!
2. Make sure magazine is empty and contains no nails/staples.
3. Place flooring nailer on ground with nailer guide plate facing down, then connect air hose. The nailer should not fire.
  - If it *does not* fire, proceed to **Step 4**.
  - If nailer *does* fire, immediately disconnect nailer from air source and call (570) 546-9663 for Technical Support.

## WARNING

Point nailer at ground when connecting to air source. NEVER aim in direction of another person or body part.

4. Place nailer guide plate along edge of a scrap piece of wood flooring that is clean and free of any knots, nails, or other foreign objects, and properly secured.

**Note:** *Nailer should sit flush along square edge of scrap piece.*

5. While holding handle with one hand, strike head cap with included hammer using moderate force. The nailer should fire.

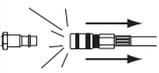
— If it *does* fire, then firing mechanism is working properly. Test is complete.

— If it *does not* fire, then firing mechanism may not be working correctly or may need service. Disconnect nailer from air source and please call (570) 546-9663 for technical support.

## **NOTICE**

**Continually firing nailer when empty can cause internal damage. Only fire empty nailer once or twice to ensure it is functioning properly.**

# SECTION 4: OPERATIONS

<b>⚠ WARNING</b>	
	<b>EYE/EAR INJURY HAZARD!</b> Wear protective equipment when using this tool.
	<b>ACCIDENTAL START HAZARD!</b> Disconnect before service or fastener replacement.
	<b>AIR PRESSURE HAZARD!</b> Never exceed max PSI rating for tool.

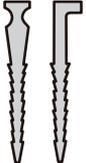
<b>⚠ WARNING</b>	
	
Deflection due to material irregularities can cause puncture injuries to improperly placed hands or body parts. Always position hands and body away from fastener trajectory and deflection paths.	

<b>NOTICE</b>
If you have never used this type of tool or equipment before, WE STRONGLY RECOMMEND that you read books, trade magazines, or get formal training before beginning any projects. Regardless of the content in this section, Grizzly Industrial will not be held liable for accidents caused by lack of training.

## Loading Nailer

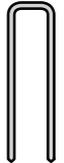
The Model T27338 shoots both nails and staples.

### Nail Replacement Guidelines

<p>16 Ga. L- or T-Cleat Nail 1 1/2"-2" Long (100 Pc. Capacity)</p>	
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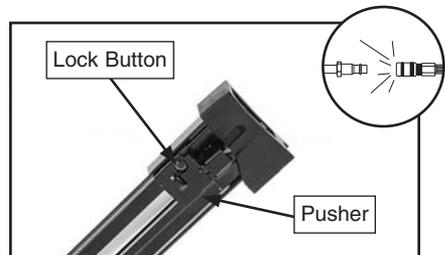
**Note:** Use 1 1/2" nails to install 1/2"- or 5/8"-thick hardwood flooring. Use 2" nails to install 3/4"- or 25/32"-thick hardwood flooring.

### Staple Replacement Guidelines

<p>15.5 Ga. 1/2" Crown Staple 1 1/2"-2" Long (120 Pc. Capacity)</p>	
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To load nailer:

1. DISCONNECT NAILER FROM AIR SOURCE!
2. Pull magazine pusher back completely, and secure pusher with lock button, as shown in **Figure 7**.

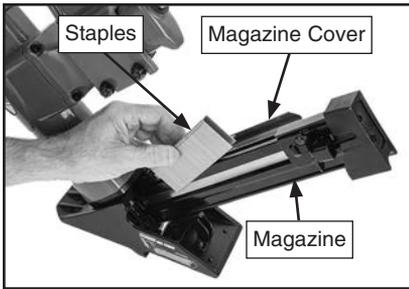


**Figure 7.** Location of pusher, lock button.

- Open magazine cover and slide strip of nails or staples pointed-end down into magazine, as shown in **Figures 8–9**.



**Figure 8.** Loading L-cleat nails.



**Figure 9.** Loading staples.

- Push lock button and allow pusher to slide nails/staples toward nose of nailer.

## Changing Guide Plate

The Model T27338 comes with a pre-installed  $\frac{25}{32}$ " guide plate and a  $\frac{1}{2}$ " un-installed guide plate. The  $\frac{25}{32}$ " guide plate is used for  $\frac{3}{4}$ " or  $\frac{25}{32}$ " hardwood flooring; the  $\frac{1}{2}$ " guide plate is used for  $\frac{1}{2}$ " or  $\frac{5}{8}$ " hardwood flooring.

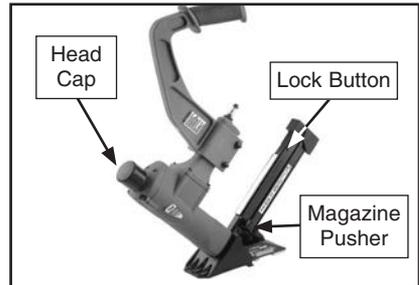
### Tool Needed

### Qty

Hex Wrench 4mm..... 1

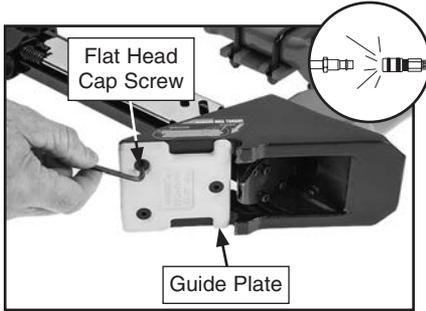
### To change guide plate:

- DISCONNECT NAILER FROM AIR SOURCE!
- Pull magazine pusher back (see **Figure 10**), secure it with lock button, remove any nails/staples from magazine, then unlock pusher and slide it forward.
- Place scrap wood under nose of nailer and hit head cap (see **Figure 10**) to make sure magazine is empty.



**Figure 10.** Location of head cap.

- Place nailer on side to access guide plate (see **Figure 11**).
- Remove (3) flat head cap screws that secure guide plate to bottom of nailer (see **Figure 11**), and remove guide plate.



**Figure 11.** Removing guide plate.

- Install replacement guide plate with flat head cap screws removed in **Step 5**.

## Operating Nailer

**Read the safety instructions in this manual before operating the nailer.**

If an automatic air line oiler is not used, before operating the nailer, place several drops of pneumatic tool oil into the quick-connect fitting.

**To operate nailer:**

- Install correct guide plate for size of flooring material (refer to **Changing Guide Plate on Page 11**).
- Install nails/staples in magazine (refer to **Loading Nailer on Page 10**).
- Place flooring nailer on ground with nailer guide plate facing down, then connect air source to quick-connect fitting.

### **⚠WARNING**

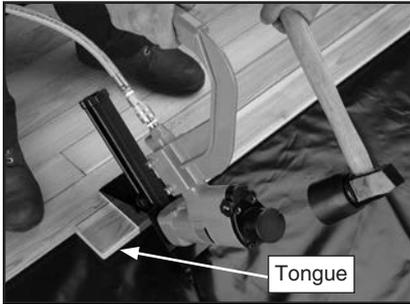
**IMPACT INJURY!**

**Point nailer at ground when connecting to air source. To prevent serious injury, NEVER aim in direction of another person or body part.**

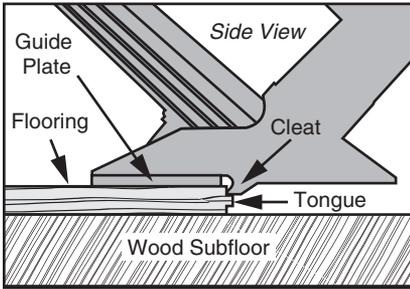
- Position flooring strip and lightly tap it into place with metal side of hammer. **DO NOT** use nailer to position flooring strips.

**Note:** Test nailer on sample flooring strip when installing pre-finished flooring to make sure nailer does not damage finish. Replace base plate if it is damaged and marring flooring finish.

- Place nailer with guide plate on flooring, as shown in **Figures 12–13**. Make sure cleat on bottom of nailer is positioned above tongue in flooring.



**Figure 12.** Typical example of operating nailer.



**Figure 13.** Correct setup for operating nailer.

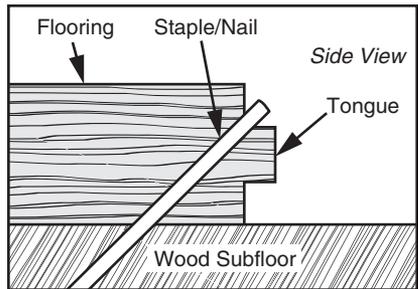
- Using *rubber* end of included hammer, strike head cap with light/medium force to shoot nail/staple into wood. **DO NOT** use multiple strikes to force nail into wood. This will cause a jam or a ricochet, and possible injury.

- Check nail/staple for proper depth and placement. The goal is to insert a nail / staple flush with tongue, or just below tongue.

— If depth is satisfactory, then proceed with your project.

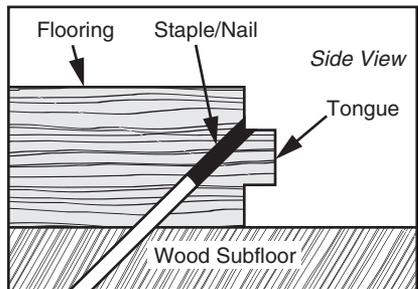
— If depth is **too shallow** (see **Figure 13**), then slightly **increase** air pressure and repeat **Steps 4–6**.

**Note:** *If necessary, use a center punch to seat the nail/staple more deeply.*



**Figure 14.** Example of nail/staple depth too shallow.

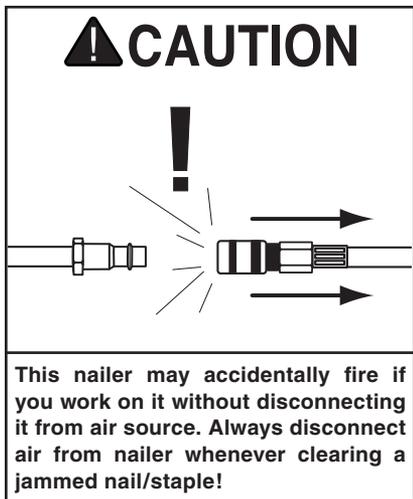
— If depth is **too great** (see **Figure 15**), then slightly **decrease** air pressure and repeat **Steps 4–6**.



**Figure 15.** Example of nail/staple depth too deep.

**Note:** *Nailing/stapling depth is not always consistent due to variations in the flooring material. Sometimes it will be necessary to tap a few nails/staples flush with a hammer and a punch.*

# Cleaning Jammed Nails



Tools Needed	Qty
Hex Wrench 4mm.....	1
Needle-Nose Pliers .....	1

If the nailer does not fire nails/staples when you strike the head cap, it can indicate the nailer has jammed. A jammed nail *must* be cleared before using the nailer again.

### To clear jammed nail from discharge area:

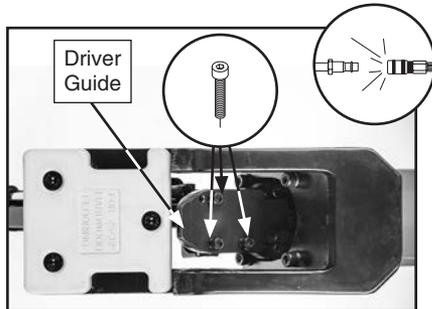
1. DISCONNECT NAILER FROM AIR SOURCE!
2. Pull magazine loader all the way back, lock in top position, then remove nails/staples.
3. Place scrap wood under nose of nailer and strike head cap (see **Figure 10**) to ensure magazine is empty and make sure all compressed air is expended.

4. Jammed nail/staple should now be visible; use needle nose pliers to remove it from discharge area.

— If nail cannot be removed, continue to **Step 5**.

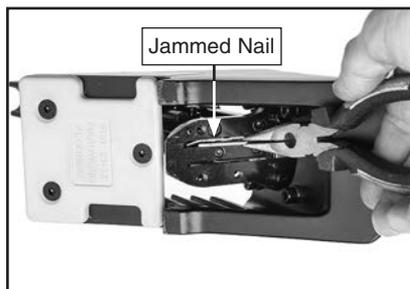
— Continue to **Step 7** when jammed nail is removed.

5. Remove three cap screws shown in **Figure 16** that secure driver guide.



**Figure 16.** Cap screws securing driver guide.

6. Remove jammed nail (see **Figure 17**) with pair of needle-nose pliers, then replace driver guide.



**Figure 17.** Jammed nail in discharge area.

7. Load new nail/staple magazine that only contains clean, undamaged nails/staples. DO NOT use dirty or damaged nails/staples!

# SECTION 5: ACCESSORIES

## **⚠ WARNING**

Installing unapproved accessories may cause nailer to malfunction, resulting in serious personal injury or tool damage. To reduce this risk, only install accessories recommended for this tool by Grizzly.

## **NOTICE**

Refer to our website or latest catalog for additional recommended accessories.

T20451—"Kirova" Clear Safety Glasses

H7194—Bifocal Safety Glasses 1.5

H7195—Bifocal Safety Glasses 2.0

H7196—Bifocal Safety Glasses 2.5



Figure 18. Assorted safety glasses.

H4979—Twin Cup Hearing Protector

Optime III is a super-muff, and has been developed for use in extremely noisy environments. The hearing protection is based on a technology with a double casing that minimizes resonance in the holder casing.



Figure 19. Hearing protection.

T22456—Bostitch Pneumatic Lubricant

This Premium Grade Pneumatic Tool Lubricant is specially formulated for pneumatic tools and blended using premium grade turbine oil. Contains rust and oxidation inhibitors to prevent degradation of tool components.



Figure 20. Pneumatic tool lubricant.

**order online at [www.grizzly.com](http://www.grizzly.com) or call 1-800-523-4777**

**T22805—15½ Gauge 1½" Hardwood Floor Staples (Box of 9660)**

**T22806—15½ Gauge 2" Hardwood Floor Staples (Box of 7720)**

These 15½ gauge galvanized Hardwood Flooring Staples are perfect for finishing up that hardwood flooring project.



**Figure 21.** T22805 15½ Gauge 1½" Hardwood Floor Staples.

**H6143—2½" Finish Nailer**

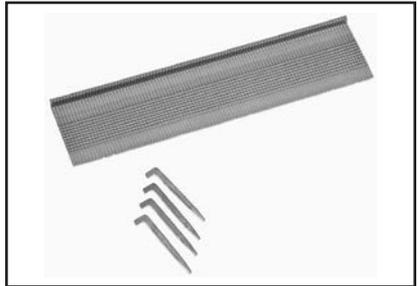
This Finish Nail Gun drives 16-gauge finish nails from 1¼" to 2½" long. Built for tough use, the large cast aluminum body provides plenty of power for the hardest woods. Features include a 360° exhaust port, comfort grip rubber handle, economical air consumption with low noise, narrow nose for tight spots, and a quick jam release mechanism. Great for all trim applications.



**Figure 22.** H6143 Finish Nailer.

**T22721—1½" Hardwood Flooring L-Nails, 1000 Pc.**

These finish coated cleats are packed in quantities of 1,000 per box, which is enough for 200 square feet of flooring.



**Figure 23.** T22721 1½" Flooring Nails.

**T22325—Bostitch 12" Claw Bar**

Designed for the professional or serious do-it-yourselfer, this 12-Inch Bostitch Claw Bar is made of forged, high-carbon spring steel for extreme strength and durability. Its flat striking surface and polished beveled claws allow this tool to be driven deeply under hard to reach embedded nails. As a result, this is an ideal claw bar for precision prying in applications such as demolition, roofing, flooring and framing.



**Figure 24.** T22325 Claw Bar.

# SECTION 6: MAINTENANCE

## Cleaning

Disconnect the nailer from the air source before cleaning. Use compressed air to clean the magazine and discharge area.

Do not allow dust, chips, sand, etc. into the air connectors or into the body of the nailer; this may result in leaks and damage to the nailer and the air couplings.

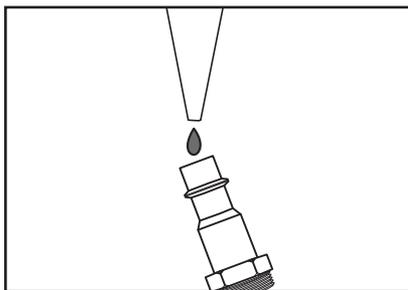
**⚠ WARNING**



**Never use gasoline or other flammable liquids to clean this tool. Vapors in tool may ignite, causing tool to explode. Ignoring this warning may lead to serious personal injury or even death!**

## Lubricating

Place two to three drops of pneumatic tool oil in the nailer air inlet (as shown in **Figure 25**) before every use and after every 2 hours of continuous use. Wipe off any excess oil near the nailer exhaust to avoid dust build-up.

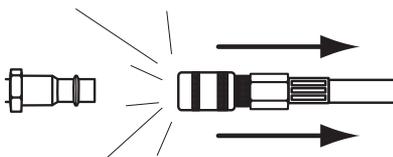


**Figure 25.** Lubricating nailer via air inlet.

An alternative to manual oiling would be to simply install a lubricator in your air compressor line. Refer to **Page 7** for additional information. If your air compressor line already has a lubricator, then regular lubrication of your nailer will not be necessary. Just make sure there is always oil in the lubricator.

# SECTION 7: SERVICE

## **⚠ WARNING**



Always disconnect air from tool whenever servicing! During maintenance, tool connected to air may fire accidentally, causing serious personal injury!

## Replacing Pistons/ O-Rings

If you use your nailer day in and day out, piston repair assemblies (part PT27338026) and O-ring kits (part PT27338061) are cheap insurance against wasted down time and lost profits, in the event that the piston assembly or O-rings become worn out. Air leaking from vents under the head cap can indicate O-rings need to be replaced.

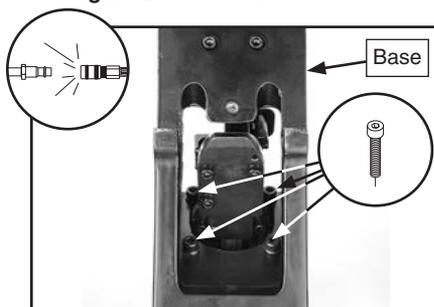
## **⚠ WARNING**

Disconnect air from nailer whenever servicing! During maintenance, a nailer connected to air may fire accidentally, causing serious injury!

Items Needed	Qty
Hex Wrench 3mm.....	1
Hex Wrench 4mm.....	1
Hex Wrench 5mm.....	1
Piston Replacement Assembly.....	1
Replacement O-Rings .....	2
Snap-Ring Pliers .....	1

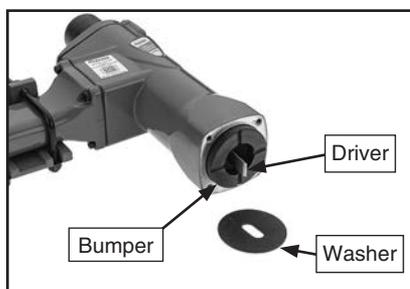
To replace piston:

1. DISCONNECT NAILER FROM AIR SOURCE!
2. Remove all nails/staples from magazine and remove guide plate.
3. Remove (4) cap screws shown in **Figure 26** that secure base.



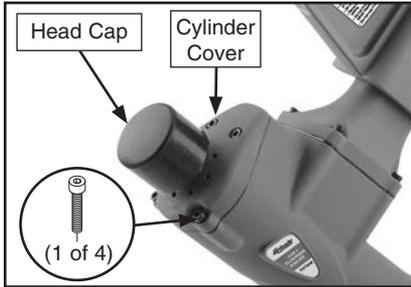
**Figure 26.** Location of cap screws that secure base.

4. Carefully slide base off of driver and remove large washer and rubber bumper (see **Figure 27**).



**Figure 27.** Bumper and washer.

- Twist off head cap shown in **Figure 28**.
- Remove (4) cap screws from cylinder cover shown in **Figure 28**. Slide cylinder cover and rubber gasket off plunger.



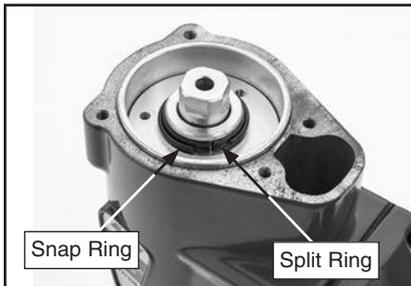
**Figure 28.** Cylinder cover location.

- Unscrew (3) cap screws and remove plunger (see **Figure 29**).



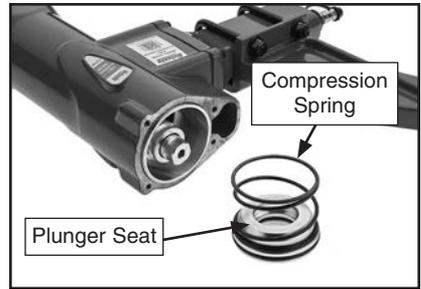
**Figure 29.** Plunger location.

- Remove snap ring and split ring from top of piston assembly (see **Figure 30**).



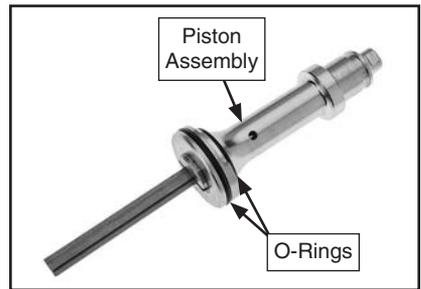
**Figure 30.** Split ring and snap ring location.

- Push driver up to remove plunger seat and compression spring (see **Figure 31**).



**Figure 31.** Plunger seat and compression spring.

- Grab onto driver and pull piston assembly out from bottom.
- Apply thin film of nailer lubricating oil on O-rings of new piston assembly.



**Figure 32.** Piston and driver.

- Re-assemble nailer in reverse order.

# Troubleshooting

Symptom	Possible Cause	Solution
Air leaking at head cap area.	<ol style="list-style-type: none"> <li>1. Loose cylinder cover screws.</li> <li>2. Damaged seal.</li> <li>3. O-rings on plunger are damaged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Tighten cylinder cover screws.</li> <li>2. Replace damaged seal.</li> <li>3. O-rings must be replaced (<b>Page 18</b>).</li> </ol>
Air leaking between body and hose.	<ol style="list-style-type: none"> <li>1. Loose air fitting.</li> <li>2. Worn air fitting.</li> </ol>	<ol style="list-style-type: none"> <li>1. Tighten air fitting &amp; use pipe sealant tape.</li> <li>2. Replace air fitting.</li> </ol>
Air leaking around driver.	<ol style="list-style-type: none"> <li>1. Damaged O-ring on piston.</li> <li>2. Worn bumper.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace O-ring (<b>Page 18</b>).</li> <li>2. Replace bumper.</li> </ol>
Nailer does not fire.	<ol style="list-style-type: none"> <li>1. Nail/staple is jammed in magazine or discharge area.</li> <li>2. Air line blocked/air pressure too low.</li> <li>3. Insufficient lubrication.</li> <li>4. Worn or damaged O-rings.</li> </ol>	<ol style="list-style-type: none"> <li>1. Clear magazine or discharge area (<b>Page 14</b>).</li> <li>2. Check for blockage/increase air pressure.</li> <li>3. Lubricate nailer (<b>Page 17</b>).</li> <li>4. Replace O-rings (<b>Page 18</b>).</li> </ol>
Nailer fires slowly or lacks power.	<ol style="list-style-type: none"> <li>1. Air line blocked/air pressure too low.</li> <li>2. Insufficient lubrication.</li> <li>3. Dirt and oil buildup on driver.</li> <li>4. Exhaust port is blocked.</li> <li>5. Worn or damaged O-rings.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check for blockage/increase air pressure.</li> <li>2. Lubricate nailer (<b>Page 17</b>).</li> <li>3. Disassemble, clean driver.</li> <li>4. Clean exhaust port.</li> <li>5. Replace O-rings (<b>Page 18</b>).</li> </ol>
Nailer skips nails/staples while discharging.	<ol style="list-style-type: none"> <li>1. Nails/staples bent, dirty, incorrect size/type, or loaded incorrectly.</li> <li>2. Air leaks, air line blocked or pressure too low.</li> <li>3. Insufficient lubrication.</li> <li>4. Dirt in driver guide or magazine.</li> <li>5. Worn or damaged O-rings.</li> <li>6. Worn bumper.</li> <li>7. Damaged pusher spring.</li> <li>8. Damaged driver.</li> </ol>	<ol style="list-style-type: none"> <li>1. Use new, undamaged, correct size, nails/staples.</li> <li>2. Check for blockage/increase air pressure.</li> <li>3. Lubricate nailer (<b>Page 17</b>).</li> <li>4. Clean driver guide or magazine.</li> <li>5. Replace O-rings (<b>Page 18</b>).</li> <li>6. Replace bumper (<b>Page 18</b>).</li> <li>7. Replace pusher spring.</li> <li>8. Replace driver.</li> </ol>
Nailer jams often.	<ol style="list-style-type: none"> <li>1. Nail/staple size is wrong.</li> <li>2. Insufficient lubrication.</li> </ol>	<ol style="list-style-type: none"> <li>1. Use correct nail/staple size.</li> <li>2. Lubricate nailer (<b>Page 17</b>).</li> </ol>
Nail/staple drives too deep.	<ol style="list-style-type: none"> <li>1. Too much air pressure.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce air pressure.</li> </ol>
Nail/staple depth too shallow.	<ol style="list-style-type: none"> <li>1. Air line blocked/air pressure too low.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check for blockage/increase air pressure.</li> </ol>



# Main Parts List

REF	PART #	DESCRIPTION
1	PT27338001	HEAD CAP
2	PT27338002	CAP SCREW W/WASHER M5-.8 X 25
3	PT27338003	CYLINDER COVER
4	PT27338004	O-RING 25 X 3.55
5	PT27338005	CAP SCREW W/WASHER M4-.7 X 20
6	PT27338006	PLUNGER
7	PT27338007	SNAP RING 28MM
8	PT27338008	SPLIT RING 28 X 30 X 0.5MM
9	PT27338009	O-RING 50 X 2.65
10	PT27338010	PLUNGER SEAT
11	PT27338011	O-RING 28 X 2.65
12	PT27338012	O-RING 55.2 X 1.8
13	PT27338013	COMPRESSION SPRING 2 X 40 X 55
14	PT27338014	CYLINDER
15	PT27338015	O-RING 56 X 2.5
16	PT27338016	SLEEVE GASKET
17	PT27338017	CYLINDER COVER GASKET
18	PT27338018	NAILER BODY
19	PT27338019	HANDLE GASKET
20	PT27338020	HANDLE
21	PT27338021	HANDLE GRIP
22	PT27338022	ARM
23	PT27338023	L-BOLT M8-1.25
24	PT27338024	FLAT WASHER 8MM
25	PT27338025	LOCK NUT M8-1.25
26	PT27338026	PISTON ASSEMBLY
27	PT27338027	BUMPER 30 X 57 X 10MM (RUBBER)
28	PT27338028	SLOTTED WASHER 57 X 2MM
29	PT27338029	CYLINDER HEAD SEAT
30	PT27338030	BASE
31	PT27338031	CAP SCREW W/WASHER M5-.8 X 14
32	PT27338032	DRIVER GUIDE COVER
33	PT27338033	CAP SCREW W/WASHER M5-.8 X 18
34	PT27338034	CAP SCREW W/WASHER M5-.8 X 16
35	PT27338035	CAP SCREW W/WASHER M3-.5 X 12
36	PT27338036	ROLL PIN 3 X 12
37	PT27338037	DRIVER GUIDE

REF	PART #	DESCRIPTION
38	PT27338038	CAP SCREW W/WASHER M6-1 X 35
39	PT27338039	FLAT HD CAP SCR M6-1 X 14
40	PT27338040	GUIDE PLATE FOR 25/32" FLOORING
41	PT27338041	CAP SCREW M5-.8 X 14
42	PT27338042	SPRING HOOK
43	PT27338043	FLAT COIL SPRING
44	PT27338044	FEEDER SHOE
45	PT27338045	LOCK NUT M5-.8
46	PT27338046	MAGAZINE SUPPORT
47	PT27338047	MAGAZINE
48	PT27338048	COMPRESSION SPRING 1 X 5 X 4
49	PT27338049	LOCK BUTTON
50	PT27338050	MAGAZINE END CAP
51	PT27338051	CAP SCREW W/WASHER M4-.7 X 12
52	PT27338052	SPRING RETAINER
53	PT27338053	CAP SCREW M4-.7 X 10
54	PT27338054	TORSION SPRING 1.5 X 12 X 30
55	PT27338055	E-CLIP 3MM
56	PT27338056	MAGAZINE PIN
57	PT27338057	MAGAZINE COVER
58	PT27338058	AIR FITTING 1/4" NPT MALE
59	PT27338059	MALLET
60	PT27338060	GUIDE PLATE FOR 1/2" FLOORING
63	PT27338063	HEX WRENCH 2.5MM
64	PT27338064	HEX WRENCH 3MM
65	PT27338065	HEX WRENCH 4MM
66	PT27338066	HEX WRENCH 5MM
67	PT27338067	SAFETY GLASSES
68	PT27338068	WRENCH 13 X 16MM CLOSED-ENDS
69	PT27338069	BOTTLE FOR OIL
70	PT27338070	O-RING REPAIR KIT
71	PT27338071	MACHINE ID LABEL
72	PT27338072	MODEL NUMBER LABEL, RIGHT
73	PT27338073	MODEL NUMBER LABEL, LEFT
74	PT27338074	WARNING LABEL
75	PT27338075	TOUCH-UP PAINT, GRIZZLY GREEN
76	PT27338076	PISTON ASSEMBLY REPAIR KIT



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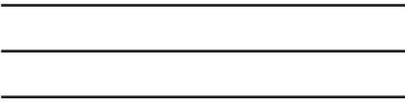
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The manufacturers reserve the right to change specifications at any time because they constantly strive to achieve better quality equipment. We make every effort to ensure that our products meet high quality and durability standards and we hope you never need to use this warranty.

Please feel free to write or call us if you have any questions about the machine or the manual.

Thank you again for your business and continued support. We hope to serve you again soon.

**Grizzly Tech Support**  
**1815 W. Battlefield**  
**Springfield, MO 65807**  
**Phone: (570) 546-9663**

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