

# STINGER®

## RT3 CAP NAILER OWNER'S MANUAL

- Operation
- Maintenance
- Safety
- Warranty



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**PLEASE READ!**

This manual contains important information about product safety.

REV 09/14

## WELCOME TO STINGER

Congratulations on purchasing the **STINGER RT3** Cap Nailer. You have selected a brand and a tool that you can count on to deliver best practice installation, and perform job after job.

This document serves as an addendum to the Hitachi NV50A1 Instruction Manual included with this product. Please take the time to read and understand the information contained in the NV50A1 Instruction Manual and **STINGER RT3** Owner's Manual before operating or maintaining the **STINGER RT3** Cap Nailer.

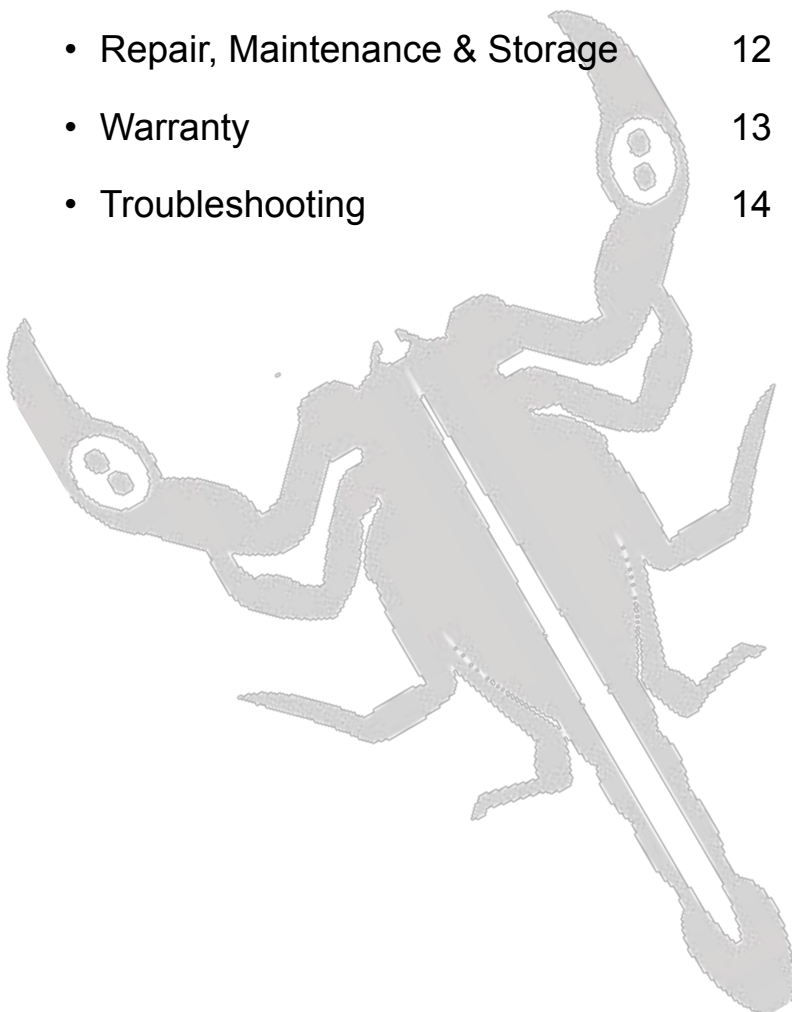
The **RT3** is intended for securing base sheet to wood decks only.

Improper use of the **RT3** could result in serious injury or even death. Most accidents occur because of the failure to observe basic safety rules and precautions, which are outlined in the "Important Information" section of this manual.

The Hitachi NV50A1 Instruction Manual and **STINGER RT3** Owner's Manual should be available to anyone who plans to operate the **RT3**.

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## IMPORTANT INFORMATION



## PERSONAL SAFETY ITEMS

- Do not use tool prior to reading the Owner's Manual. Keep this manual available for future reference.
- Always wear eye protection that conforms to ANSI requirements (Z87.1) and provides protection against flying particles both from the front and side. Eye protection should be worn by the operator and by others in the work area. Eye protection is required to protect against flying fasteners and debris that could possibly cause severe eye injury.
- The employer is responsible to enforce the use of eye protection equipment by the tool operator and all other personnel in the work area.
- To prevent accidental injuries:
  - Handle the tool with care
  - Always assume that the tool contains fasteners
  - Always disconnect the air hose from the **STINGER RT3** when:
    - loading nails and/or caps
    - performing inspection, maintenance or repair
    - clearing a nail or collated cap jam
    - the tool is not in use
    - leaving the work area
    - moving the **STINGER RT3** to another work location
    - handing the **STINGER RT3** to another person
    - storing the tool
  - Never point the tool toward yourself or anyone else
  - Never engage in horseplay
  - Never hold or carry the tool with a finger on the actuator button.
  - Never place a hand or any other part of the body in the fastener discharge area of the tool while the air supply is connected



## IMPORTANT INFORMATION



### AIR SUPPLY AND CONNECTIONS

- Use only clean, regulated compressed air as a power source for this tool. Do not use bottle gases, combustible gases or oxygen as a power source for the tool as the tool may explode.
- Do not use air supply pressures that exceed **120 PSI** (8.28 bar or 8.4 kg/mm). Exceeding the recommended maximum operating air pressure will greatly increase tool wear.
- The air supply must be capable of maintaining the operating air pressure of the tool. Pressure drops in the air supply can reduce the tool's driving power.
- Use a pressure regulator and gauge to allow visual inspection of the air pressure being delivered to the tool.
- Use air hoses that have rated pressures of up to 150% of the maximum pressure that can be generated by the power source. The supply hose should contain 3/8" fittings that will provide quick disconnecting from the male plug on the tool.
- Use quick connect fittings that allow the tool to be unhooked from the air supply quickly and easily.
- Do not use fittings that will not allow the tool to exhaust when the air supply is disconnected.

### OPERATION OF THE TOOL

- Never inspect, maintain, repair, adjust, clear a jam or store the tool with the air connected.
- Never use the tool in proximity of flammable gases or liquids, as some tools will create sparks that can be an ignition source for a fire or explosion.
- Always inspect the safety device for damage and proper operation prior to operation.
- Never assume the tool is empty of fasteners.
- Never point the tool toward yourself or any other persons.
- Never cycle the tool unless it is in contact with the work-piece.
- Never use the tool as a hammer or wedging device or drop to the floor from any height.
- Always remove your finger from the actuator button when pausing from cycling.
- Never tamper with the safety device or use the tool if the safety device is not functioning properly.
- Use only **1 1/4" STINGER RT NailPac®** steel cap fasteners with the **STINGER RT3** Cap Nailer. Never use any fasteners that are not specified for use in this tool. The **RT3** holds 1 reel of steel caps (1500 caps) and 1 coil of collated nails (1500 nails).

## TOOL SPECIFICATIONS

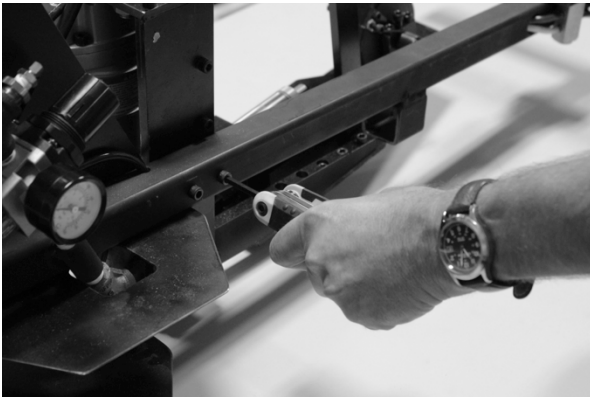
Operating pressure	95-120 psi	
Weight	62 lb. (with caps and nails)	
Nail capacity	1,500 nails (1 coil)	
Cap capacity	1,500 steel caps (1 reel)	
Air consumption	.035 ft <sup>3</sup> /cycle at 100 psi (.99 ltr/cycle at 6.9 bar) (.99 ltr/cycle at 7 kgf/cm <sup>2</sup> )	<i>Example:</i> 500 shots/minute requires 17.5 ft <sup>3</sup> / min (17.5 cfm at 100 psi)
Air inlet	3/8 NPT	
Fasteners	<b>STINGER RT NailPac</b> (National Nail product number 0136072) Consists of 2 coils of 1-1/4" electro-galvanized ring shank nails (1,500 nails per roll) and 2 reels of 1" diameter steel caps (1,500 caps per reel).	
Lubrication	For optimal performance, clean and lubricate cap feed moving parts and feed path before each day of use with a <b>dry silicone</b> lubricant. Use air line lubricators. If lubricators are not available, add 2 drops of non-detergent 20-weight oil daily into the air inlet of the tool.	



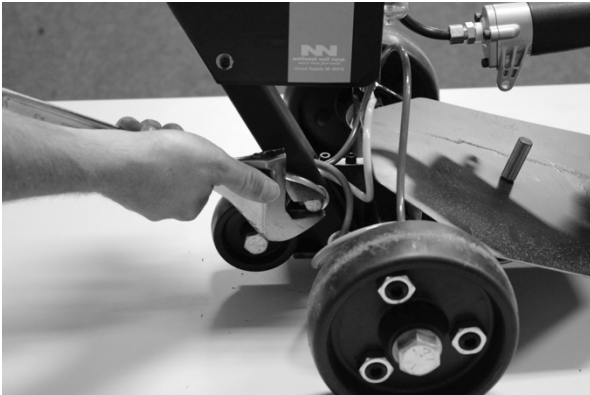
## TOOL ASSEMBLY



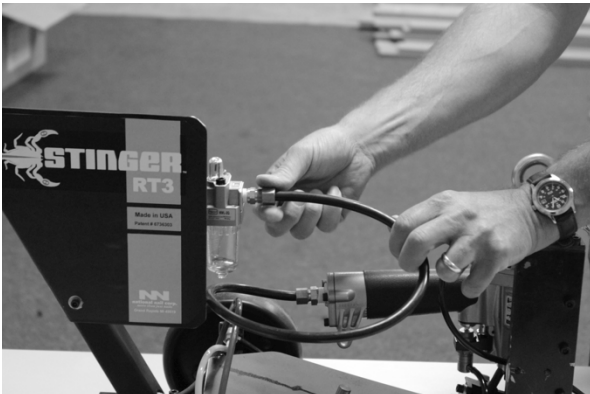
The **STINGER RT3** is shipped with the handle assembly temporarily attached to the main unit. This lowers the profile for shipping, and protects the air prep unit from shipping-related damages.



1. Remove handle assembly shipping screws and extend the handle.



2. Tighten handle assembly bolts.



3. Attach the black air supply line from air prep unit to nailer and tighten compression fitting.

## LOADING THE TOOL USE 1-1/4" STINGER RT NAILPAC® CAP NAILS ONLY

Disconnect the STINGER RT3 from air supply when loading caps and nails.



1. Open Nail Gate. Place coil nails on Feeder Paws. Close Nail Gate.



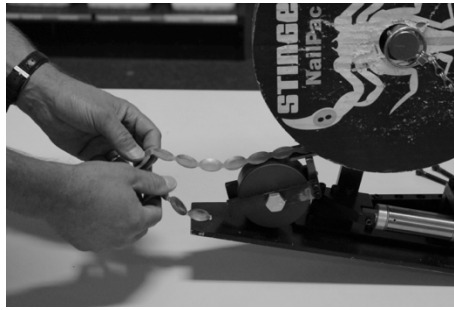
2. Remove Lynch Pin from Cap Reel Spindle.



3. Hold down Tension Arm and slide cap reel onto spindle.



4. Replace Lynch Pin.



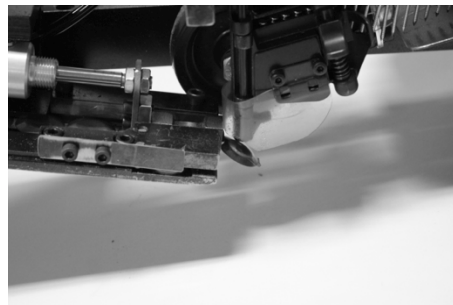
5. Unroll a 12" section of caps. Place them over the Magnetic Front Roller (**caps must be positioned tape side down**) and then onto the Cap Feed Platform.



6. Manually advance the caps underneath the Cap Feeder Piston to directly in back of the Cap Picker.



7. Lift the Cap Picker. Pull it back and set down on the caps.



8. Advance the caps until the first cap is in the nailing position.

## OPERATING THE TOOL

1. Do not use tool prior to reading the **STINGER RT3** Owner's Manual.
2. Read warning label(s) on the tool.
3. Visually inspect the tool for worn or damaged parts.
4. Wear appropriate eye and ear protection.
5. Install a male pneumatic fitting into the End Cap of the tool, ensuring that the fitting allows the tool to exhaust any air in the tool when the air hose is disconnected.
6. For optimal performance, clean and lubricate cap feed moving parts and feed path before each day of use with a **dry silicone** lubricant. Use air line lubricators. If lubricators are not available, add 2 drops of non-detergent 20-weight oil daily into the air inlet of the tool.
7. Connect the air hose to the tool using a quick connect fitting, and check the air pressure reading on the regulator to ensure it does not exceed 120 PSI. Check the tool for any air leaks.
8. Disconnect the air hose from the tool when:
  - Loading nails and/or caps
  - Performing inspection, maintenance or repair
  - Clearing a nail or collated cap jam
  - The tool is not in use
  - Leaving the work area
  - Moving the tool to another work location
  - Storing the tool





## OPERATING THE TOOL

9. The **STINGER RT3** Air Preparation Unit includes an Oil Mist Lubricator for automatic nailer oiling and a Filter Regulator to assist in supply air moisture separation. Recommended pressure setting on the Air Preparation Unit is 95-120 psi.

The Oil Mist Lubricator is adjusted at the factory to supply approximately one drop of oil for each fifty nails driven. A screw located at the top of the Oil Mist Lubricator allows for automatic nailer oiling adjustments. Turn clockwise to decrease, and counter clockwise to increase.

Unscrew the Oil Mist Lubricator site glass to fill with non-detergent pneumatic tool lubricant. The Filter Regulator site glass can be unscrewed or the button on the bottom can be pushed to empty condensation.

10. To adjust the depth of penetration, regulate the air pressure at the regulator and cycle the tool on a scrap work piece to evaluate the adjustment.
11. Following recommended loading instructions, load the fasteners approved for use in the tool.
12. Cycle the tool on a scrap work piece to evaluate the depth of penetration by the fastener into the work piece.
13. Repeat Step 10 as needed to set the correct depth, using the minimum amount of air pressure to drive the fastener.

Air Prep Unit

(3/8" NPT male plug not included)



Oil Mist Lubricator

Filter Regulator

## OPERATING THE TOOL



The **STINGER RT3** is a forward operating tool. Reverse movement may cause caps to jam or fold under Cap Feed Platform.

**Connecting the air supply.** Air supply hose should be fed through one of the square hose holders on the operator's preferred side of the handle assembly.

The **STINGER RT3** can be operated in one of two modes. Manual or Automatic.

### Manual

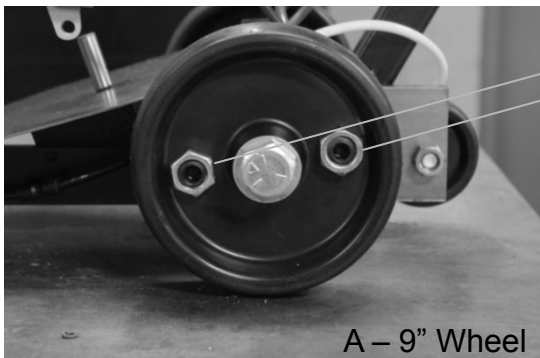
- For manual operation, place the Auto/Manual Toggle Switch in the Manual position. In this setting, the push button actuator located in the center of the handle must be depressed each time a cap fastener is required.

### Automatic

- Note: All tools are factory preset for 9" – 18" nailing patterns. Do not adjust 9" wheel (Image A).**
- For automatic firing and fastener spacing, place the Auto/Manual Toggle Switch in the Auto position. Using the Fastener Spacing Toggle Switch, select the desired nailing pattern. Depress and hold the Push Button Actuator located in the center of the handle while advancing across the work surface. A cap fastener will be placed every 9" or 18" as determined by the toggle switch selection.

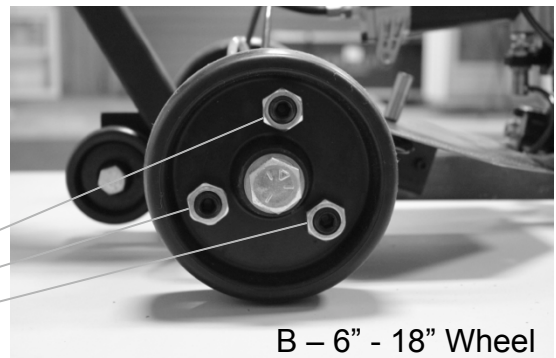
### Changing to 9" – 6" Nailing Option

- When 6" spacing is required, all three Wheel Actuators (Image B) must be engaged. This is done by turning the additional two actuators located on the wheel.
- Loosen the Jam Nut (Image D2). Turn the 5/16" Actuator Bolts in slightly (turning Actuator Bolts too far will cause damage to Actuator Ball Switches). Rotate the wheel slowly to ensure that Actuator Bolts are only making contact with the ball portion of the switch and not the switch casing. Tighten the Jam Nuts.
- The **STINGER RT3** is now set to nail 9"-6" patterns.



Preset  
Wheel  
Actuators

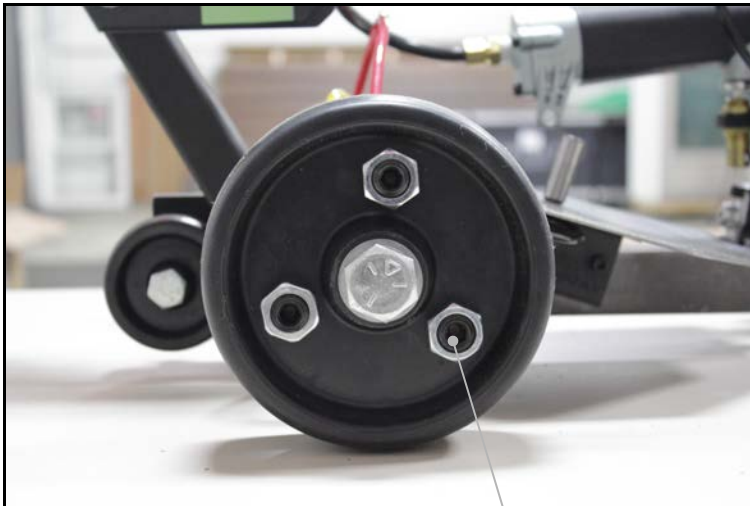
Adjustable  
Wheel  
Actuators



## STINGER RT3 SCHEMATIC



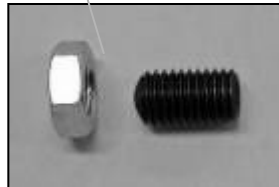
C – Cap Delivery Assembly



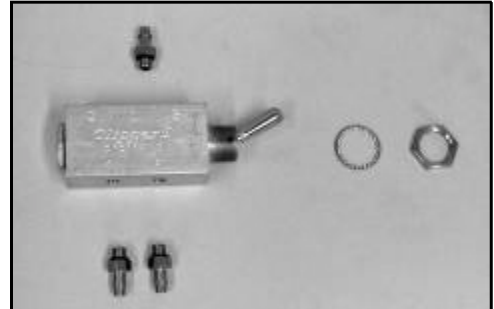
D – Actuator Wheel



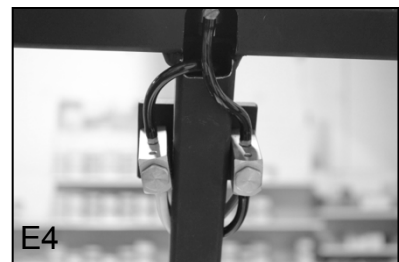
D1 - Ball/Actuator Assembly  
(inside wheel area)



D2 – Actuator Bolt and  
Jam Nut



E – Auto/Manual Toggle Switch



## STINGER RT3 SCHEMATIC



Contains:

- Cap Feed Platform
- Cap Feeder Piston
- Cap Picker



Includes:

- Oil Mist Lubricator
- Filter Regulator
- Air Supply Line

## STINGER RT3 PARTS LIST

Call 800-746-5659 for details.

# REPAIR, MAINTENANCE AND STORAGE

## REPAIR

1. Repair and maintenance shall only be carried out by specialists experienced with servicing the **STINGER RT3**. Call 800-746-5659 to find a specialist near you.

## MAINTENANCE

1. Disconnect the air hose from the tool when performing inspections, maintenance or repairs.
2. Use air line lubricators. If lubricators are not available, or if hose lengths exceed 10 feet, add 2 drops of non-detergent 20-weight oil daily into the air inlet of the tool.
3. Whenever repairs or replacement of parts inside the body occur, check the piston “O” ring for adequate grease lubrication.
4. Never use any parts other than genuine **STINGER** replacement parts.
5. Periodically clean the magazine and nose of the tool with a mild solvent.

## STORAGE

1. Disconnect the air hose when storing the tool.
2. Never store the tool in cold weather environments for any duration of time as any frost or ice formation in the tool will cause tool failures.
3. For prolonged storage, add 2 drops of oil to the air inlet of the tool prior to discontinuing use. Also clean the exterior of the tool with a mild solvent.

## WARRANTY

This National Nail product is warranted for a period of one (1) year from the original purchase date against defective materials and/or workmanship. Normal wear items such as O-rings are warranted for a period of ninety (90) days from the original purchase date. Call National Nail Corp. at 800-746-5659 for product technical assistance, warranty repair, and ordering replacement parts.

## WARRANTY ITEMS

1. Warranty for cap assemblies, castings and housing castings is one year.
2. Warranty for bumpers, “O” rings, driver blades and piston rings is not applicable as they are normal wearing parts whose life is dependent on application.
3. Warranty for all other parts is 90 days.

## WARRANTY CONDITIONS

1. The beginning date in which the warranty is in force is the date of purchase.
2. The warranty is not transferable.
3. The warranty is voided by any of the following:
  - a. Abuse, misuse, or damage to the tool
  - b. Use of parts other than genuine STINGER parts
  - c. Use of fasteners not designated for use in the tool
  - d. Modifications to the tool that alter the original function or intent of use of the tool by anyone other than National Nail
4. National Nail retains the right to replace or repair any warranty items it deems necessary.

## TROUBLESHOOTING

*Disconnect the air hose from the tool when performing inspections, maintenance or repairs.*

### PROBLEM:

### CORRECTION:

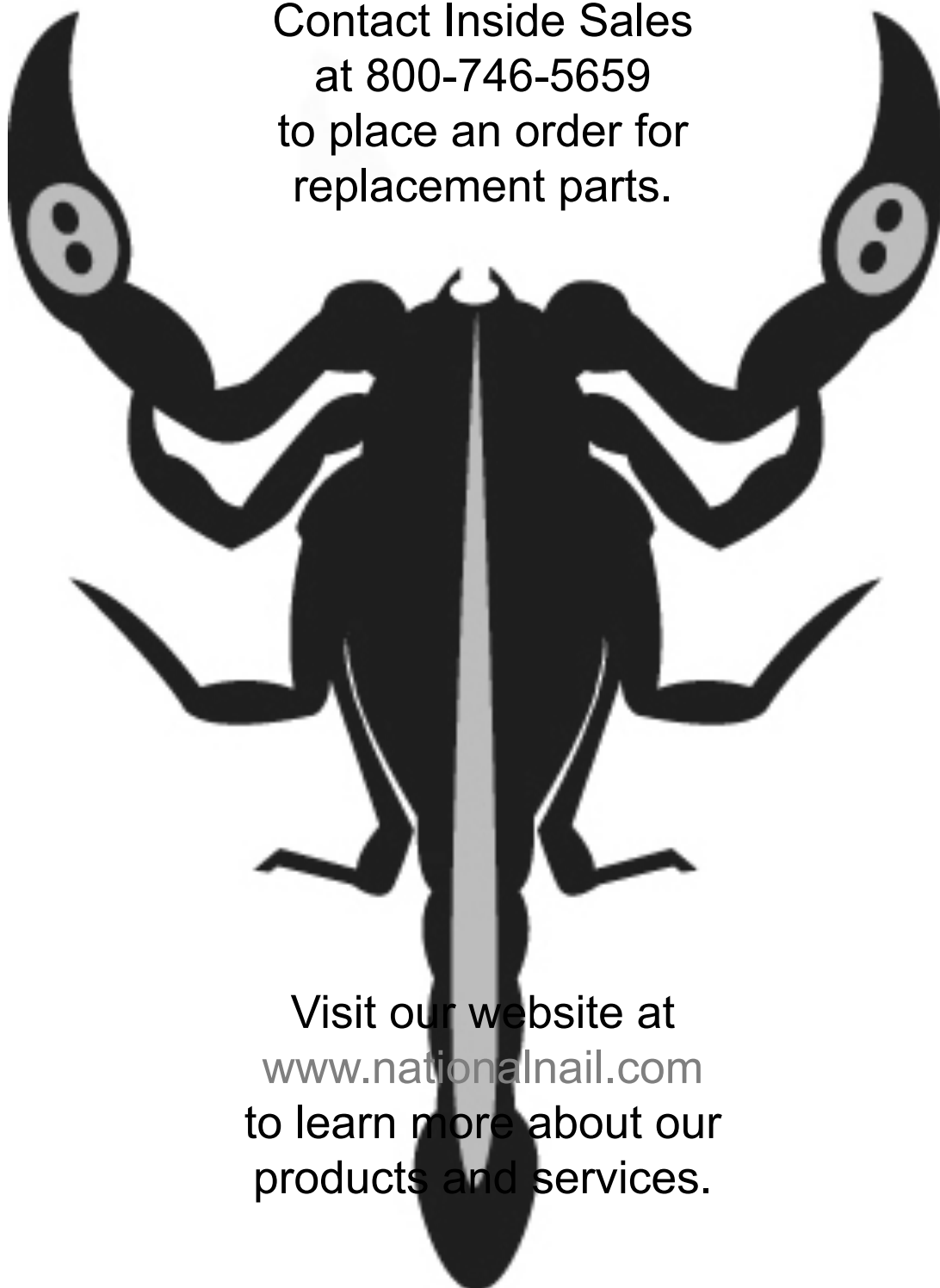
- |                                    |  |
|------------------------------------|--|
| 1. Nail not driven deep enough     | <ul style="list-style-type: none"><li>• Check the air pressure - recommended 95-120 psi</li><li>• Check air supply - recommended 3/8" hose and fittings; 17.5cfm @ 100 PSI.</li></ul>  |
| 2. Nails breaking or bending       | <ul style="list-style-type: none"><li>• Check the Nail Pawl and Feeder Spring inside the door, making sure they move freely and have full travel - Blow out debris - Clean and lubricate - Check spring tension</li><li>• Check Nail Picker alignment to ensure it is not turned sideways in the track (caused by a broken feeder pawl spring).</li></ul>                |
| 3. Caps not feeding properly       | <ul style="list-style-type: none"><li>• Check for debris – clean, blow dry, and lubricate with <b>dry silicone</b> lubricant</li></ul>   |
| 4. Cap feeder not cycling properly | <ul style="list-style-type: none"><li>• Check Roller Ball contacts to ensure sure they move freely and are not stuck</li><li>• Check the spacing between the Timing Button(s) and the Roller Ball(s) to ensure actuation</li><li>• Check movement of the cap feeder - it should snap fully forward with spring pressure only (it should not have to be pushed)</li></ul> |

*Please contact Inside Sales for technical support if you have any other problems: 800-968-6245*

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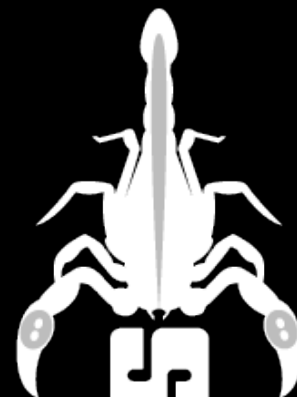
Contact Inside Sales  
at 800-746-5659  
to place an order for  
replacement parts.



Visit our website at  
[www.nationalnail.com](http://www.nationalnail.com)  
to learn more about our  
products and services.

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2964 Clydon SW, Grand Rapids MI 49519, USA  
Phone: 800-968-6245 Fax: 616-531-5970



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