

## ACCESSORIES (cont'd)

### NAILS



2" Nails

**Cat. No. 42623**

(Sold Separately)

Porta-Nail - 10 Boxes of 1000



1-1/2" Nails

**Cat. No. 42640**

(Sold Separately)

Porta-Nail - 1 Box of 1000



1-3/16" Nails

**Cat. No. 42646**

(Sold Separately)

Porta-Nail - 1 Box of 1000



2" Stainless Steel

**Cat. No. 42660**

(Sold Separately)

Porta-Nail - 1 Box of 1000

Porta-Nail Application Chart		
FASTENER	APPLICATION	T&G FLOORING THICKNESS
Porta-Nail 2"	Angle nail onto 5/8"-3/4" underlayment over joist construction.	3/8", 9/16", 1/2", 5/8", 3/4", 33/32"
	Surface (face) nail onto 5/8"-3/4" underlayment over joist construction	
Porta-Nail 1-1/2"	Angle nail onto 5/8"-3/4" underlayment over concrete slab or hydronic heating systems.	3/4", 33/32"
	Surface (face) nail onto 5/8"-3/4" underlayment over concrete slab or hydronic heating systems	33/32"
Porta-Nail 1-3/16"	Angle nail onto 5/8"-3/4" underlayment over concrete slab or hydronic heating system.	1/2", 9/16", 5/8"
	Surface (face) nail onto 5/8"-3/4" underlayment over concrete slab or hydronic heating system.	3/4"



**Cat. No. 40253**

Molded Carrying Case



OWNERS MANUAL

**MODEL 402**

**PORTA-NAILER**

For Tongue and Groove Solid Wood & Hardwood Flooring



**CAUTION - Read important safety instructions AND operation instructions for proper operation of your Nailer.**

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

FORM P/N 840256 (5/3/2008)

PO Box 1257, Wilmington, NC 28402

910-283-9791 • 800-634-9281 • Fax 910-283-6264

Home Page: [www.porta-nails.com](http://www.porta-nails.com) E-mail: [www.info@porta-nails.com](mailto:www.info@porta-nails.com)

# MODEL 402 PORTA-NAILER



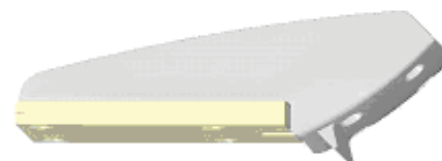
	Cat. # 402	Cat. # 402S	Cat. # 403	Cat. # 404	Cat. # 406	Cat. # 409
Porta-Nailer Model 402	✓	✓	✓	✓	✓	✓
Extension Handle	✓	✓	✓	✓	✓	✓
Mallet	✓	✓	✓	✓	✓	✓
Angled Shoe	✓	✓	✓		✓	
Face Nailing Shoe			✓	✓	✓	
Thin Flooring Shoe			✓			
Metric Shoe (Bamboo)	✓		✓	✓	✓	✓
Nail Punch			✓			
Owner's Manual	✓	✓	✓	✓	✓	✓
Instructional DVD	✓	✓	✓	✓	✓	✓
Parts Pack	✓	✓	✓	✓	✓	✓
Carrying Case	✓		✓	✓	✓	✓

- The Angled Shoe is used for secret nailing 3/4" (19mm) – 33/32" (26mm) tongue and groove wood flooring.
- The Face Shoe is used for face nailing the first two (2) rows and the last six (6) rows of tongue and groove flooring.
- The Thin Flooring Shoe is designed to nail down 3/8" (9.5mm) – 9/16" (14.25mm) tongue and groove flooring.
- The Metric Shoe is designed to nail down 5/8" (15mm – 17mm) tongue and groove bamboo flooring.

## ACCESSORIES

(Sold Separately)

The testing of this tool has been accomplished with the following accessories. For safest operation, it is recommended that only these accessories be used with this product. **WARNING – Since accessories other than those listed have not been tested with this product, use of such accessories could be hazardous.**



**Cat. No. 40221**  
**(Included w/402 Package)**  
Tongue Nailing Shoe for 3/4" -  
33/32" Flooring.



**Cat. No. 40230**  
**(Sold Separately)**  
Tongue Nailing Shoe for Solid 3/8"  
- 9/16" Flooring.



**Cat. No. 40248**  
**(Sold Separately)**  
Tongue Nailing Shoe for 5/8"  
Bamboo Flooring.



**Cat. No. 40225**  
**(Sold Separately)**  
Face Nailing Shoe



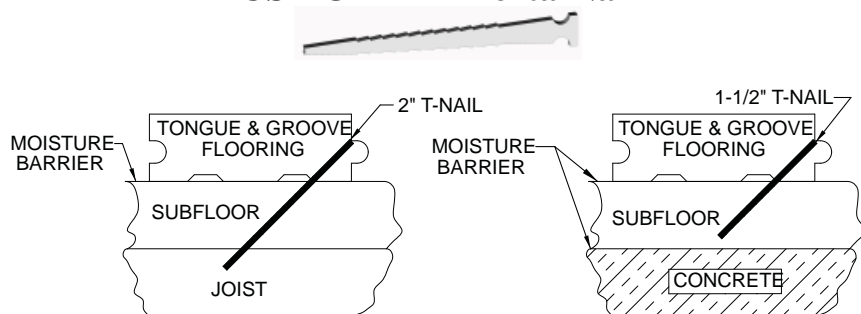
**Cat. No. 42620**  
**(Sold Separately)**  
Porta-Nail Set Tool

(Continued on next page.)

4. The first two strips of flooring and the last six (or strips that measure less than 13-1/2" from the wall) should be Face nailed with the Face Nailing Shoe installed on the Porta-Nailer or by hand.
5. The Porta-Nailer **MUST** be held firmly, but not over-tightly in the hand so that the Porta-Nailer rests perfectly flat on the floor with the lip of the shoe hanging over and against the edge of the strip being nailed. As an aid to holding it flat against the floor, rest the toe of your shoe on the rear of the Porta-Nailer Shoe.
6. **DO NOT OVERPOWER THE PORTA-NAILER** – Strike it firmly but **NOT HARD**, and then strike it again until the Ram returns. The Ram does not return until the nail is properly seated.
7. Do not attempt to nail the last six strips (or strips that measure less than 13-1/2" from the wall) of flooring down with the Angled Shoe installed. Switch and install the Face Nailing Shoe or face nail by hand.

The Porta-Nailer system is user-friendly and following these simple instructions, will insure a perfect hardwood flooring installation. Contact our Customer Service Dept. (800) 634-9281 if you encounter flooring which the Porta-Nailer does not properly position the fastener.

### USE OF THE Porta-Nail



The Porta-Nail is 2" long and the PORTA-NAILER with the standard shoe drives the nail into the Tongue and Groove Flooring at a 45-degree angle. The orientation of the nail is as depicted in wood floor joist construction. In applications where Tongue and Groove Flooring is laid over concrete or Hydronic Heating Systems, the 1-1/2" or 1-3/16" Porta-Nail is used so that the Nail will not protrude through the sub-floor. Refer to the "Porta-Nail Application Chart" for proper Fastener usage. A Stainless Steel Porta-Nail 2" long is available for applications requiring a non-corrosive nail.

### PNI's LIMITED ONE YEAR WARRANTY

PNI is proud of the products that it manufactures and warrants them to be free of defects from workmanship and material for a period of 1 year from the date of original purchase. In the unlikely event that a problem occurs, return the product to our plant freight prepaid and allowed, so that a determination of the fault can be made. If the fault is determined to be defective materials or workmanship, a no-charge replacement or repair will be made, at our discretion. The product will be returned to you freight prepaid and allowed. This warranty does not cover accidents, abuse or misuse and in no case will PNI be liable for incidental or consequential damages. No other warranty written or verbal is authorized.

**Returns for warranty service or repair must have a RMA number prior to returning; contact Customer Service at 800-634-9281.**

**Returns should be sent to:**

**Porta-Nails, Inc.  
4235 US Hwy. 421 N.  
Currie, NC 28435  
Attention Service Dept.**

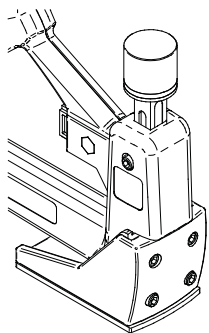
### SAFETY RULES FOR PORTA-NAILER

1. **WEAR SAFETY GLASSES** and safety shoes for protection against foreign objects.
2. **NEVER** sit the Porta-Nailer in your hand or on your knee or any part of your Body.
3. **NEVER** use a Hammer with a loose head or splintered handle.
4. **USE ONLY** nails from Porta-Nails, Inc.
5. **REPLACE** worn or damaged parts immediately.

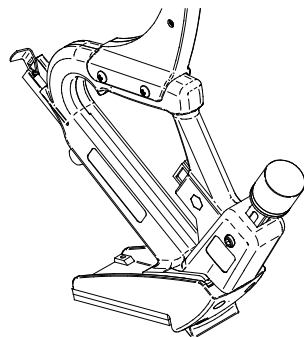
### APPLICATIONS

- Your Model 402 Porta-Nailer is designed for Angle Nailing 5/8", 3/4"-33/32" Hardwood Tongue and Groove Flooring.
- An Accessory Shoe is available (Sold Separately) for Face Nailing. (See Shoe Accessory Applications section)
- An Accessory Shoe is available (Sold Separately) for Angle Nailing 3/8" to 9/16" Flooring with the standard 2" Porta-Nail. (See Shoe Accessory Applications section)
- An Accessory Shoe is available (Sold Separately) for Angle Nailing 5/8" Bamboo Tongue and Groove Flooring. (See Shoe Accessory Applications section)
- Contact our Customer Service Dept. if you encounter a flooring that our Nailer will not match up with.

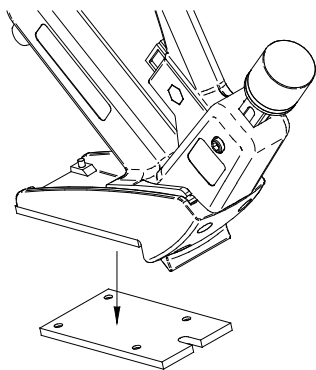
## PORTA-NAILER ACCESSORY SHOE & SHOE BASE APPLICATIONS



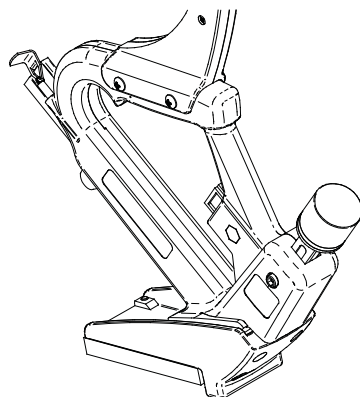
**FIGURE 1**  
**Face Nailing Shoe**  
Accessory Shoe Cat. No. 40225  
(Sold Separately)



**FIGURE 2**  
**Tongue Nailing 3/4\"**  
**Flooring Shoe**  
Standard Shoe  
(Included on 402)

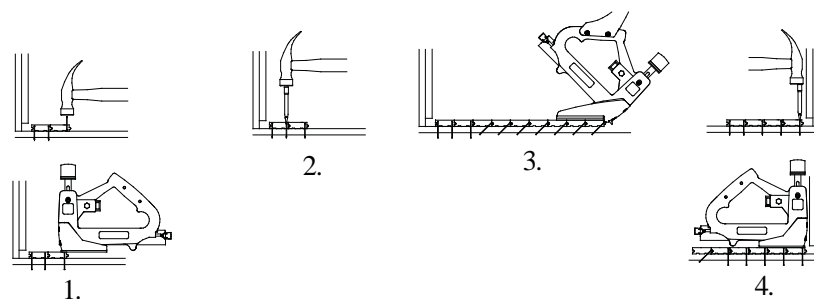


**FIGURE 3**  
**Tongue Nailing**  
**33/32\"**  
**Flooring Shoe**  
Standard Shoe with only  
One (1) Shoe base installed.

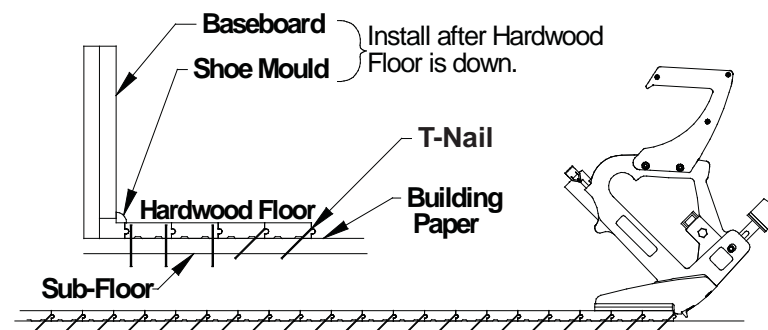


**FIGURE 4**  
**Tongue Nailing**  
**3/8\"**  
**3/8\" - 9/16\" Solid Flooring**  
Accessory Shoe  
Cat. No. 40230  
(Sold Separately)

## HARDWOOD FLOOR INSTALLATION MADE SIMPLE WITH THE **PORTA-NAILER**



1. Face Nail by hand or using the Porta-Nailer with the Face Nailing Shoe (Sold Separately) the first two courses, Tongue of Flooring toward the opposite wall.
2. Set face nails and hide with matching putty stick.
3. Blind Nail along the Tongue edge of the field of Flooring. Position a nail every 8\" to 10\". A minimum of 2 Nails per strip.  
**Note:** Always follow the Flooring Manufacturer's Instructions regarding installation requirements.
4. At the opposite wall, Face Nail the remaining strips that measure less than 13-1/2\" from the wall.



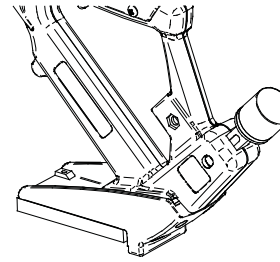
### **BRIEF INSTRUCTIONS FOR USE OF THE PORTA-NAILER SYSTEM**

Always wear safety glasses AND safety shoes.

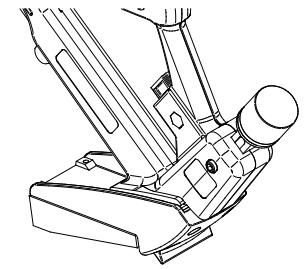
#### **OPERATION FOR USE OF THE PORTA-NAILER SYSTEM**

1. This tool is designed to properly seat the nail with one or SEVERAL blows of the Hammer.
2. Tap the flooring into place with the non-marring rubber side of the Hammer.
3. Strike the Rubber Cap of the Nailer with the iron side of the Hammer.

<b>Ref. No.</b>	<b>Part No.</b>	<b>Description</b>
33.	40037	Pawl
34.	40115	Ram Stop Springs (2 ea)
35.	40048	Ram Stop Block
36.	40243	Nailer Body Screws (4 ea)
37.	40244	Body Handle Screws (3 ea)
38.	1165	Extension Handle Fasteners
39.	40229	Thin Flooring Shoe
40.	40152	Thin Flooring Shoe Base
41.	2600	Thin Flooring Shoe Base Screws (4 ea)
42.	40221	Tongue Nailing Shoe Assembly (Includes #'s 4, 5, 6) Not to be used with Cat. No 401
43.	40225	Face Shoe Assembly (Includes #'s 7, 8, 9) Not to be used with Cat. No 501
44.	40230	Thin Flooring Shoe Assembly (Includes #'s 39, 40, 41) Not to be used with Cat. No 401
45.	40008	Hammer (Not Shown)
46.	840080	Spare Parts Package (Not Shown; Includes #'s 24, 26)
47.	2191	Pawl Housing Assembly (Includes # 31, 32, 33)
48.	40097	Pusher Spring Tube Assembly (Includes #'s 15, 16, 17)
49.	59561	Starter Parts Kit (Includes #'s 12, 13, 20, 21, 23, 24, 25, 26, 32, 33)



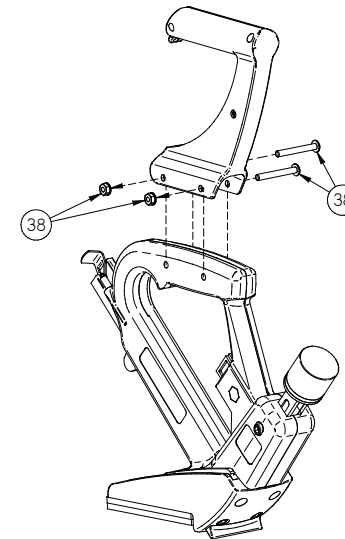
**FIGURE 5**  
**Tongue Nailing**  
**5/8" Bamboo Flooring**  
 Accessory Shoe  
 Cat. No. 40248  
 (Sold Separately)



**FIGURE 6**  
**Angled Shoe Base**  
 for nailing 3/4" Flooring over 3/4" Sub-flooring over Concrete.  
 Accessory Shoe  
 Cat. No. 42626  
 (Sold Separately)

## **ASSEMBLING THE EXTENSION HANDLE**

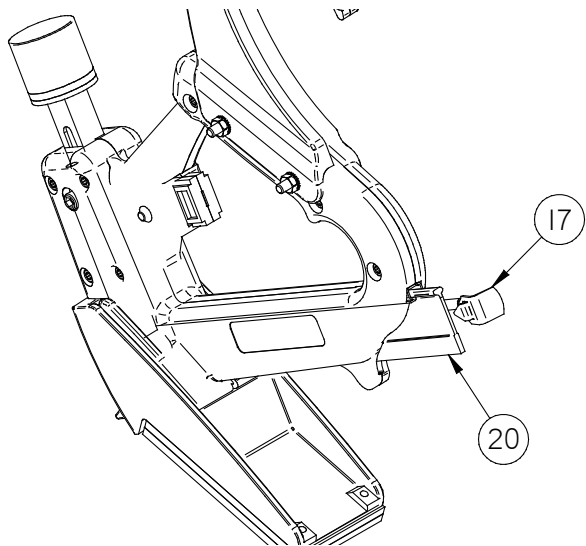
Fasten the Extension Handle to the Nailer using the two (2) Screws and Nuts (Ref. No. 38) furnished with the unit.



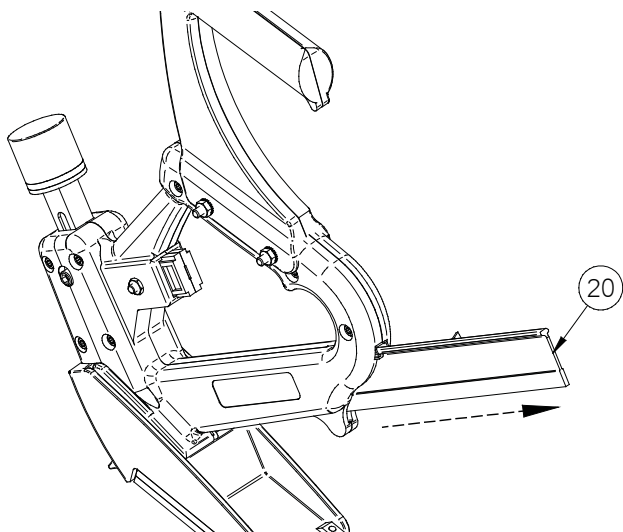
**FIGURE 7**  
 Installing the Extension Handle



## LOADING NAILS

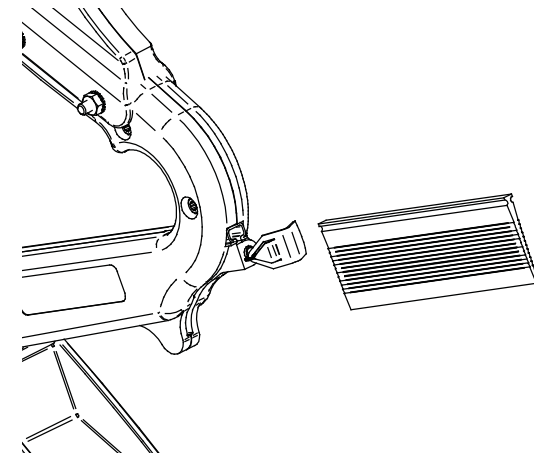
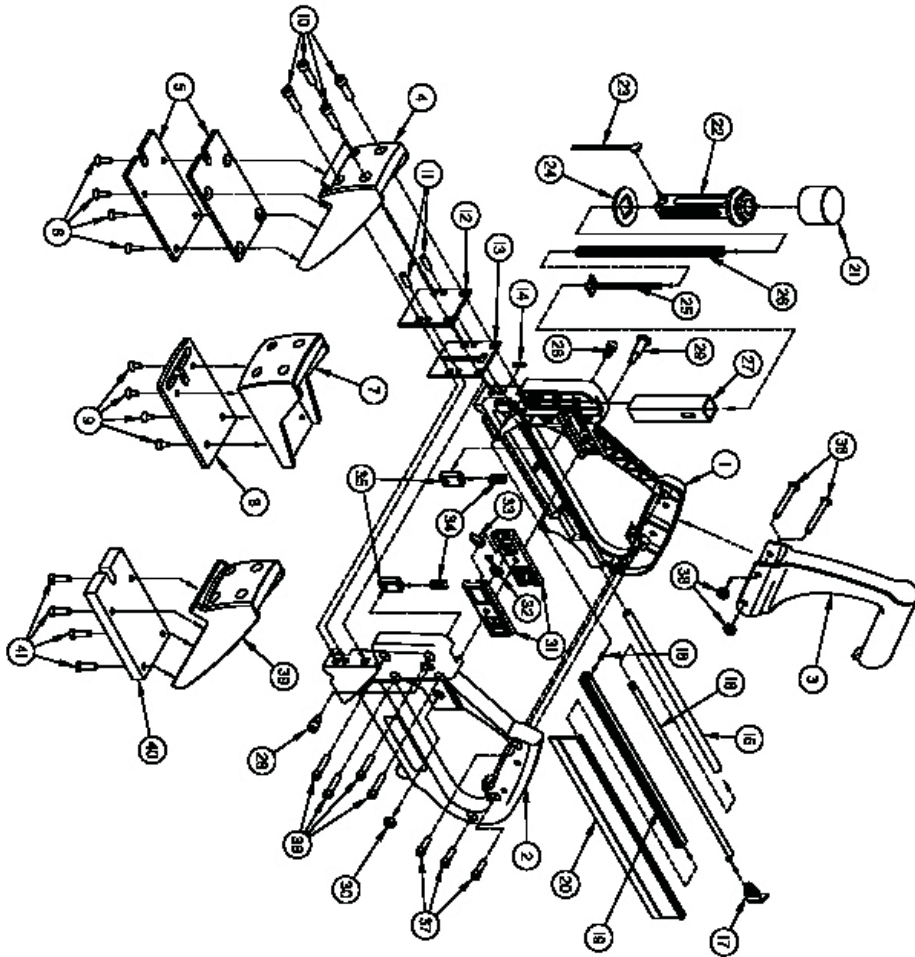


1. Unhook the Connector (Ref. No. 17) from the Pusher (Ref. No. 20).

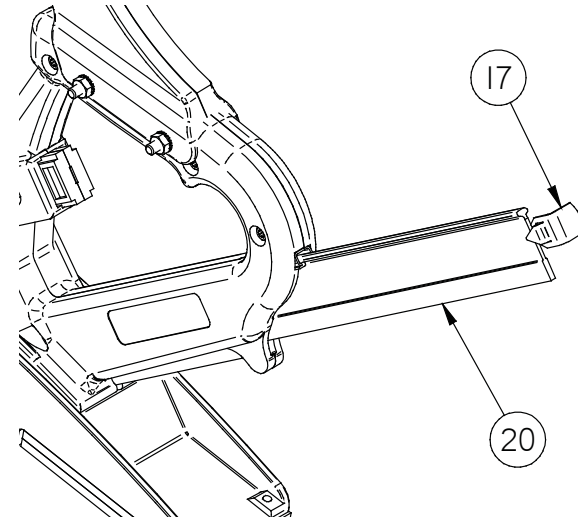


2. Remove the Pusher (Ref. No. 20) from the Nail Rail.

Ref. No.	Part No.	Description
1.	40272	Body – R.H.
2.	40273	Body – L.H.
3.	40061	Extension Handle (Includes #38)
4.	40220	Tongue Nailing Shoe
5.	40153	Tongue Nailing Shoe Base (2 ea)
6.	2598	Tongue Nailing Shoe Base Screws (4 ea)
7.	40223	Face Shoe
8.	40224	Face Shoe Base
9.	40226	Face Shoe Base Screws (4 ea)
10.	40043	Shoe Screws (4 ea)
11.	40040	Wear Plate / Shear Plate Dowels (2 ea)
12.	54580	Wear Plate
13.	40170	Shear Plate
14.	53849	Pusher Spring Roll Pin 1/8 x 5/8
15.	-----	Pusher Spring Tube (See Ref. No. 48)
16.	40146	Pusher Spring
17.	40093	Connector
18.	40109	Rail Spring Pin 1/8 x 3/8
19.	40151	Rail
20.	40094	Pusher
21.	40030	Rubber Ram Cap
22.	40116	Ram (Includes #'s 21,24,26)
23.	40131	Driver Blade
24.	40052	Ram Washer
25.	40124	Ram Spring Guide
26.	40126	Ram Spring
27.	40245	Ram Guide
28.	40050	Ram Stop Screws (2 ea)
29.	40241	Shoulder Screw (Includes #30)
30.	802194	Shoulder Screw Nut
31.	2190	Pawl Housing Set
32.	40101	Pawl Spring



3. Insert a stack of Nails into the Nail Rail with the Heads “up”.



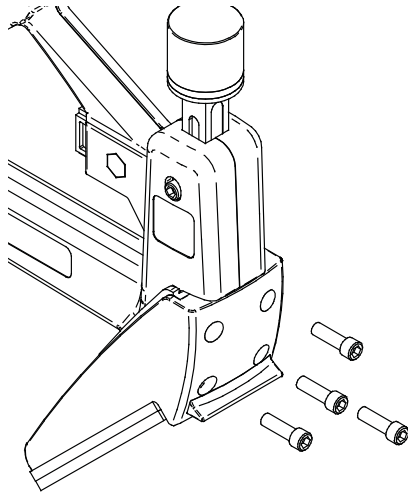
4. Place the Pusher (Ref. No. 20) in the Nail Rail and hook the Connector (Ref. No. 17) to the Pusher (Ref. No. 20).

**WARNING:** For proper operation never use Nailer with less than a 2 inch stack of nails remaining in the Nail Rail. A Jam may occur when less than a 2 inch Stack of nails remain in the Nail Rail.

# SHOE CHANGING

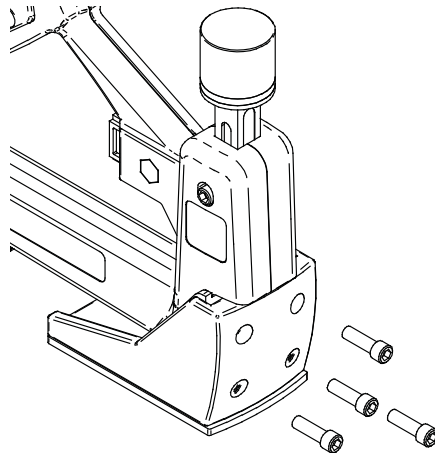
## CONVERSION TO AND FROM FACE NAILING

### APARENTE



**FIGURE 8**

Angled Tongue and Groove  
Flooring Shoe



**FIGURE 9**

Face Nailing Shoe  
Cat. No. 40225  
(Sold Separately)

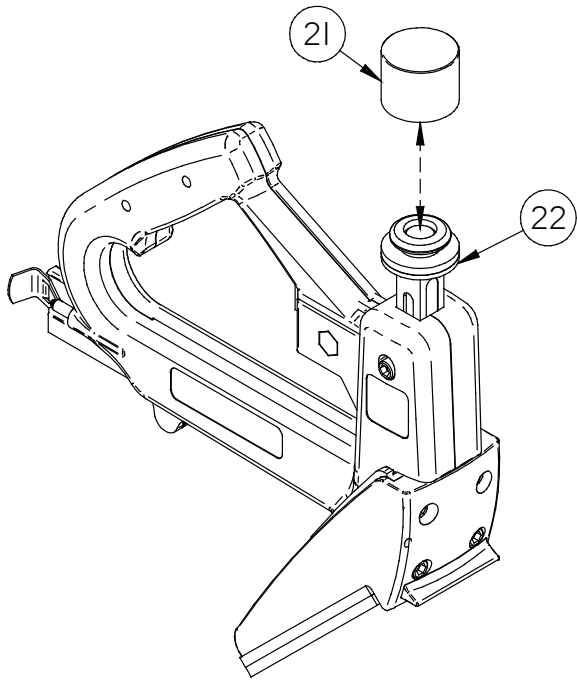
Loosen and remove Socket Head Cap Screws (Ref. No. 10) to remove Shoe & Shoe Base Assembly. Change over from the Angled Tongue Nailing to Face Nailing Applications or change from Face Nailing to Angled Tongue Nailing Applications by removing Socket Head Cap Screws (Ref. No. 10) and re-tightening after changeover.

# TROUBLESHOOTING

PROBLEM OR QUESTION	CAUSE	CORRECTIVE ACTION
Ram comes up before completing cycle	Ram(Ref. No. 22) or Pawl (Ref. No. 33) worn; Pawl Spring (Ref. No. 32) Broken	Remove the Shoulder Screw Nut (Ref. No.30) and the Shoulder Screw (Ref. No.29). Pull out Pawl Housing Assembly (Ref. No. 47) and inspect the Pawl (Ref. No. 33) and the Pawl Spring (Ref. No. 32) for wear or breakage and replace if necessary. Reinstall and firmly tighten Shoulder Screw Nut (Ref. No. 30).
Ram does not come up after completing downward cycle.	Ram Spring (Ref. No. 26) or Pawl Spring (Ref. No. 33) broken	Loosen, but DO NOT REMOVE, the two (2) Ram Stop Screws (Ref. No. 28). Remove the Ram (Ref. No. 22) and Driver Blade (Ref. No. 23). Replace the Ram Spring. If the Ram Spring is not broken, reverse correction given above. Refer to the above Corrective Action for replacing the Pawl Spring.
Ram will not go all the way down or up.	Nails Jammed in Shear Plate (Ref. No. 13).	Remove the Ram (Ref. No. 22) and Driver Blade (Ref. No. 23) as outlined above. Remove the four (4) Shoe Screws (Ref. No. 10) and Shoe (Ref. No. 4). Lift off the Wear Plate (Ref. No. 12) and remove the jammed nails.
Ram will make a complete cycle but works hard.	Lack of lubrication and dirt / contaminate accumulation	Remove the Ram (Ref. No. 22) and Driver Blade (Ref. No. 23) as outlined above. Clean the Ram and Driver Blade and lubricate the Ram lightly with a dry silicone lubricant.



## RELACING THE RAM CAP



1. To replace the Ram Cap (Ref. No. 21) remove worn Ram Cap (Ref. No. 21) from the Ram (Ref. No. 22).
2. Use soap and water to aid in applying the Ram Cap (Ref. No. 21) to the head of the Ram (Ref. No. 22).

**THE GUARANTEE ON THE RAM IS VOID  
WHEN USED WITHOUT THE RAM RUBBER  
CAP IN PLACE.**

## NAILING TONGUE AND GROOVE FLOORING

Your Model 402 Nailer is furnished with two (2) Shoe Bases (Ref. No. 5). When nailing 3/4" thick flooring, both of these bases are used. When nailing 33/32" thick flooring, only use one (1) Shoe Base (Ref. No. 5).

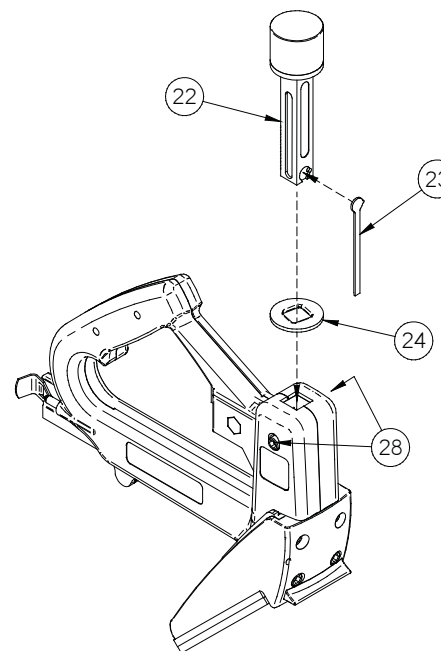
1. Prior to laying the felt, identify the nail line attaching the Sub Floor to the joists by marking the nail line on each wall. After laying the felt, transfer the nail line to the top of the felt. When nailing, the Floor, stay left or right of the chalk line.
2. After squaring the Floor and allowing for expansion as recommended by the Wood Flooring Industry (NWFA, NOFMA and MFMA), place the grooved edge of the first row of Flooring towards the wall on the side of the room from which you are starting. Face Nail in place by hand or by using the Model 402 Nailer with the Face Shoe (Sold Separately) installed. (See Shoe Changing Section Pg. 8).
3. After Face nailing the First (1st) row of Flooring, (See Figure 8) place the groove of the Second (2nd) row of Flooring over the Tongue of the First (1st) row of Flooring and drive snug using the rubber knob end of the Porta-Nailer Hammer and Face nail in place just as the First (1st) Row of Flooring.
4. You are now ready to Blind Nail the field of Flooring.
5. Position the Model 402 Nailer along the Tongue edge of the Third (3rd) Row of Flooring in the manner shown in Figure 8. **(THE FIELD SHOULD BE NAILED ONLY THRU THE TONGUE. SEE ILLUSTRATION ON PAGE 22).**
6. Strike the Ram Head (Ref. No. 21) with the metal end of the Hammer Head to drive the Nail.
7. Continue to strike the Ram Head (Ref. No. 21) until the Ram returns to its original position. (It usually takes two blows to drive a nail.)
8. If, after striking the Ram Head (Ref. No. 21), the Ram does not return to its original position, it is a warning that the Nail has not been completely driven.
9. When the Nail has been completely driven, the Ram will return to its original position.

10. Be careful not to drive one Nail on top of another. Damage to the Nailer might result if this should occur.
11. Slide the Nailer along the tongue of the board to the location at which you desire to drive the next nail. (8-10 inches is the general rule of thumb.) Try to get a nail in each Joist.
12. Continue Steps 5-10 until you have completely nailed the board.
13. Repeat Steps 4-11 until all but the last Six (6) Rows of boards (or boards measuring less than 13-1/2" from the wall) have been nailed in place.
14. Face Nail the last Six (6) Rows of Flooring or boards measuring less than 13-1/2" from the wall.

### ROUTINE MAINTENANCE / INSPECTION SCHEDULE

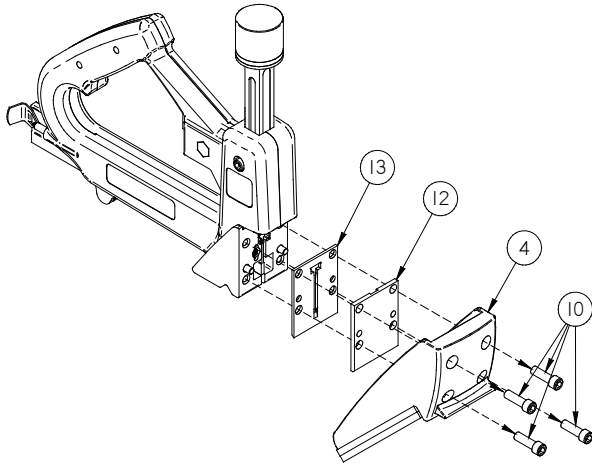
Daily	Inspect the Ram Spring to insure proper return of the Ram. Inspect the Ram Guide / Ram to insure no dirt or debris is causing the Ram not to return. Inspect the Driver Blade to insure there are no chips/dings or rounded-over tip for proper contact with the nail.
Weekly	Inspect the Pusher End to make sure of proper concise contact with the nail stack. Inspect the Wear Plate & Shear Plate to make sure there are no dings to cause improper contact with or damage to the flooring.
Monthly	Inspect the Rail to make sure nails feed into the Shear Plate / Wear Plate properly. Inspect the Pawl Spring & the Pawl to make sure the Tip is not rounded inhibiting ratcheting.

### REPLACING THE RAM WASHER

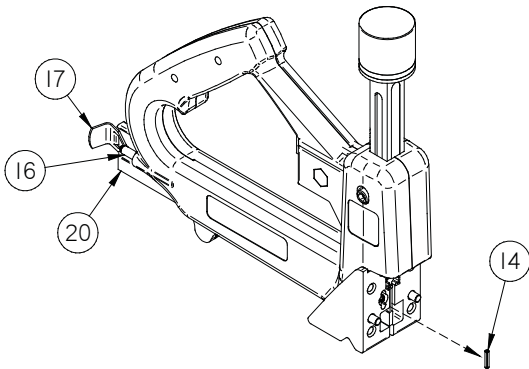


1. Loosen, but DO NOT REMOVE, the two (2) Ram Stop Screws (Ref. No. 28) while holding the Ram (Ref. No. 22) down.
2. After the Ram Stop Screws are loose enough to allow the Ram to be removed, gently pull out the Ram and Driver Blade (Ref. No. 23).
3. Remove the Driver Blade and slide the worn Ram Washer (Ref. No. 24) over the Ram to remove it.
4. Slide the replacement Ram Washer over the Ram until it is positioned under the Ram Cap.
5. Reposition the Driver Blade (Ref. No. 23) into the recess in the Ram (Ref. No. 22). Slip the entire assembly into the Ram Guide
6. Push the Ram down so the Driver Blade (Ref. No. 23) will slide down between the Wear Plate and Shear Plate. Hold the Ram (Ref. No. 22) down and tighten the two (2) Ram Stop Screws (Ref. No. 28).

## REPLACING THE PUSHER SPRING



1. Remove the four (4) Shoe Screws (Ref. No. 10), securing Shoe (Ref. No. 4) and remove the Shoe from the Nailer. Remove the Wear Plate (Ref. No. 12) and the Shear Plate (Ref. No. 13).



2. Unhook the Connector (Ref. No. 17) from the Pusher (Ref. No. 20) and remove the Pusher. Disconnect the Connector (Ref. No. 17) from the Pusher Spring (Ref. No. 16). Pull the Pusher Spring out thru the front end of the Pusher Spring Tube (Ref. No. 15).

## DISASSEMBLY OF UNIT

Check the Nailer for faulty operation. It can probably be noted at this time if there are any broken springs or assemblies which do not work properly or if the machine is jammed.

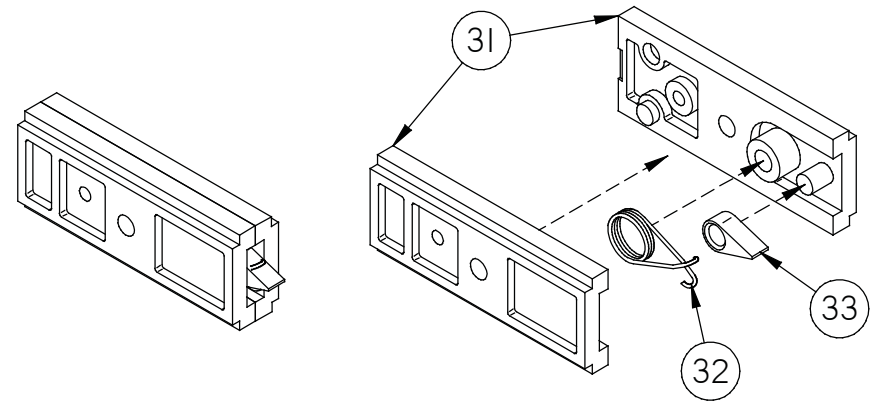
1. Unhook the Connector (Ref. No. 17) and remove the Pusher (Ref. No. 20) from the Nail Rail.
2. Back out, but do not remove, the two (2) Ram Stop Screws (Ref. No. 28) and pull out the Ram (Ref. No. 22), Ram Spring (Ref. No. 26), and Ram Spring Guide (Ref. No. 25). Remove the Driver Blade (Ref. No. 23) from the Ram.
3. Remove the four (4) Shoe Screws (Ref. No. 10), securing Shoe (Ref. No. 4) and remove the Shoe from the Nailer. Check the Wear Plate (Ref. No. 12) and Shear Plate (Ref. No. 13) for wear.
4. Both the Wear Plate (Ref. No. 12) and the Shear Plate (Ref. No. 13) can be removed. If the Shear Plate (Ref. No. 13) is tight, pry it off, but use CAUTION not to damage any of the parts.
5. Turn the Nailer over and remove the Shoulder Screw Nut (Ref. No. 30) from the Shoulder Screw (Ref. No. 29).
6. Remove the Shoulder Screw (Ref. No. 29) and pull the Pawl Housing Assembly (Ref. No. 47) from the Pawl Housing Cavity area.
7. Remove the three (3) Body Handle Screws (Ref. No. 37) in the Handle area and the four (4) Nailer Body Screws (Ref. No. 36) in the Ram Housing area.
8. Separate the two (2) main Nailer Body Castings (Ref. Nos. 1 & 2) and lift out the Ram Guide (Ref. No. 27). Check the Ram Stop Blocks (Ref. No. 35) and the Ram Stop Springs (Ref. No. 34) positioned by the Ram Stop Screws (Ref. No. 28) for wear.
9. Remove the Nail Rail (Ref. No. 19) from the Casting.

## ASSEMBLY OF UNIT

1. Clean and inspect all parts and check springs for breakage or weak sections. Check the Nailer Body Castings (Ref. Nos. 1 & 2) for cracks or worn spots.
2. Insert the Nail Rail (Ref. No. 19) into the Nailer Body Casting (Ref. No. 1) being sure that the Rail Spring Pin (Ref. No. 18) and the hole in the Nail Rail line up properly.
3. Insert the Ram Guide (Ref. No. 27) into the Nailer Body Casting (Ref. No. 1). NOTE: Be sure the Ram Stop Blocks (Ref. No. 35) are well seated in the Nailer Body Casting recess under the Ram Guide and that the holes in the Ram Guide will line up with the two (2) Ram Stop Block Screws (Ref. No. 28).
4. Position the Nailer Body Castings (Ref. Nos. 1 & 2) together; check to be sure they are lined up properly.
5. Replace the three (3) Body Handle Screws (Ref. No. 37) in the Handle area and the four (4) Nailer Body Screws (Ref. No. 36) in the Ram Housing area.
6. Insert the Pawl Housing Assembly (Ref. No. 47) into the Pawl Housing Cavity area.
7. Insert the Shoulder Screw (Ref. No. 29) thru the Nailer Body Castings and fasten with the Shoulder Screw Nut (Ref. No.30).
8. Position the Shear Plate (Ref. No. 13) and tap it lightly to seat it on the Wear Plate / Shear Plate Dowel Pins (Ref. No. 11) and against the Nailer Body Castings. Position the Wear Plate (Ref. No. 12) on the same Pins and tap into place against the Shear Plate. (Ref. No. 13).
9. Secure the Shoe Assembly (Ref. No. 4) with the four (4) Shoe Screws (Ref. No. 10).
10. Insert the Ram Spring Guide (Ref. No. 25) with the flat end down and the round notch towards the front. Slide the Ram Spring (Ref. No. 26) down over the Ram Spring Guide.
11. Lubricate the Ram (Ref. No. 22) lightly with silicone spray or a similar non-fluid lubricant. Position the Driver Blade (Ref. No. 23) into the recess in the Ram (Ref. No. 22). Slip the entire assembly into the Ram Guide (Ref. No. 27).

12. Push the Ram down so the Driver Blade (Ref. No. 23) will slide down between the Wear Plate (Ref. No. 12) and Shear Plate (Ref. No. 13). Hold the Ram (Ref. No. 22) down and tighten the two (2) Ram Stop Screws (Ref. No. 28).
13. Slide the Pusher (Ref. No. 20) into the Nail Rail (Ref. No. 19) and secure it with the Connector (Ref. No. 17).
14. Check the Nailer for overall operation.

## REPLACING THE PAWL & PAWL SPRING



1. Separate the Pawl Housings (Ref. No. 31). Remove the Pawl Spring (Ref. No. 32) and replace if needed. Remove the Pawl (Ref. No. 33) and replace if needed. Insert the Pawl and Pawl Spring into one side of the Pawl Housing (male side with posts). Position the other Pawl Housing on top of the assembly and press together.
2. After pressing together, check to make sure the Pawl moves freely and always returns to the center position.