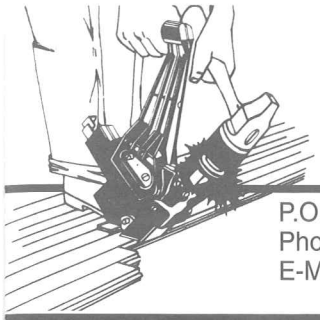

# POWERNAIL® Co.

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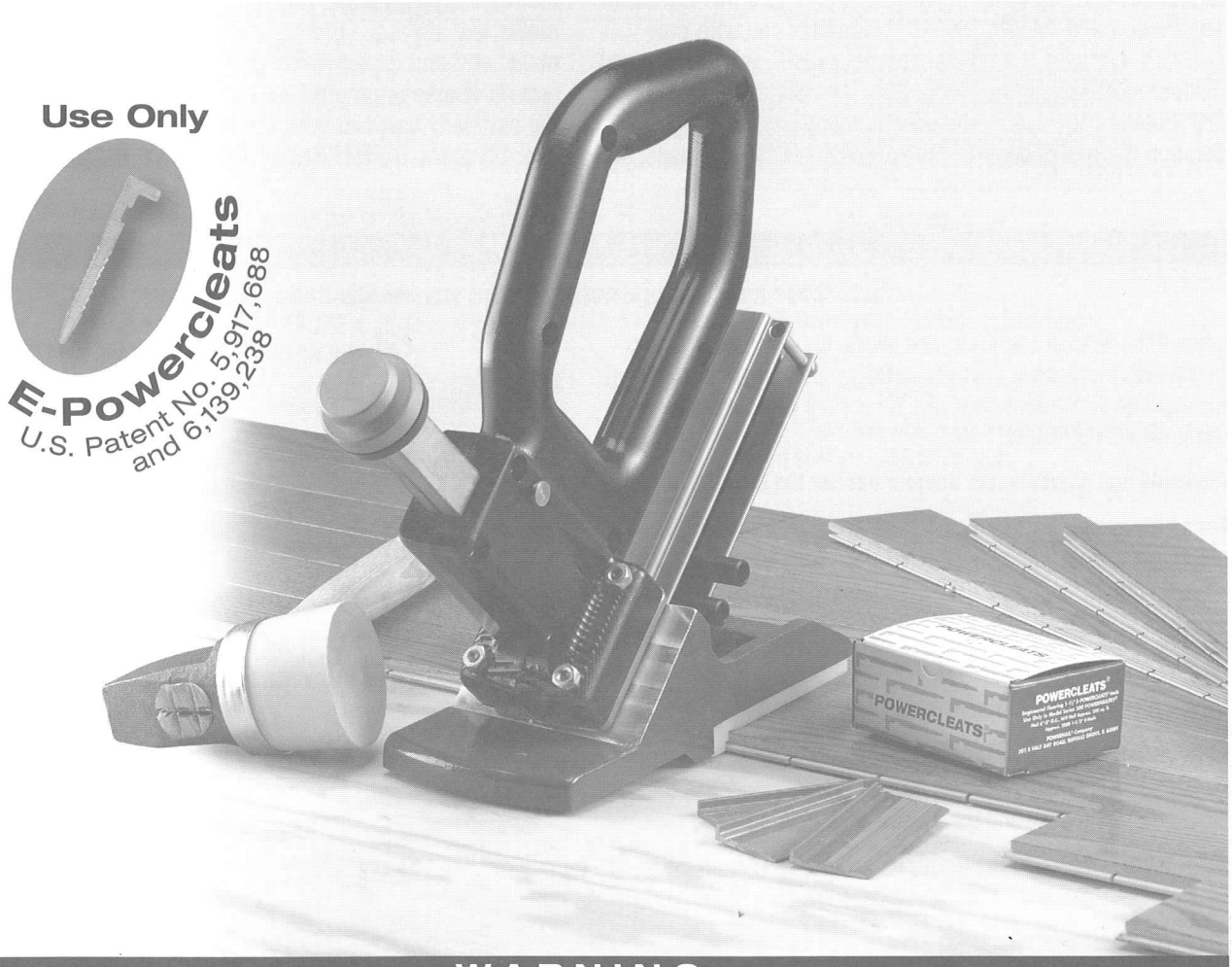
## MODEL 250 MANUAL POWERNAILER®
## For Engineered T&G Flooring 5/16" to 5/8" Thick

## OPERATION and MAINTENANCE MANUAL




**WARNING**

Read this manual before you use this Nailer. Follow all safety warnings and instructions. If you are uncertain about the operation of the Nailer, call us directly at 1-800-323-1653 for assistance or contact the closest Powernail® Dealer for help. Please retain this information for future reference.

1/01

## TO PREVENT ACCIDENTAL INJURIES:

Always wear approved front and side **EYE PROTECTION** when operating this Nailer. Others in the work area should also wear front and side **EYE PROTECTION**. Eye protection will help guard against flying nails and debris, which could cause severe eye injury.

**EAR PROTECTION** may be required to prevent hearing damage when there are high noise levels in the work area.

**DO NOT USE THE METAL END OF THE MALLET TO STRIKE THE PLUNGER**, use the rubber capped end only.

Never place any part of the body in the discharge path of the Nailer.

## DESCRIPTION

The Powernailer® Model 250 Manual Nailer is the latest model designed to bring Powernail quality to a manual Nailer. The Powernailer Model 250—designed for use with only 1-1/2", 1-1/4" and 1" E-Powercleats® nails—provides several distinct advantages.The Model 250 can nail down 5/16" to 5/8" Engineered tongue and groove hardwood flooring through the use of easy-to-change, no-mar adapter pads. To use the Model 250, simply snug up the flooring by tapping the front of the Adapter Foot with the rubber cap end of the mallet and strike the plunger with the same rubber capped mallet end and let the Nailer drive and set the nail at the correct 45 degree angle. For a superior manual Nailer, look to the company that has been the industry's quality leader for over 50 years, POWERNAIL® COMPANY, INCORPORATED.

## OPERATION

**Read these instructions carefully before you use the Nailer.**

Consult the Adapter Pad Chart and sketch for which adapter pad to use with the flooring your are installing. Be sure to measure the required dimensions carefully. We are not responsible for using the wrong Adapter Pad.

**Choosing and adjusting the adapter pad for the Model 250**

For a proper flooring installation, it is necessary to adjust the nail placement to penetrate at the intersection of the tongue and at the vertical edge of the flooring.

**Always follow the flooring manufacturer's recommendations for nail placement and nail schedules.**

**HOW TO CHOOSE THE PROPER ADAPTER PAD**

**STEP ONE:** Measure the depth of the tongue "D" from the top surface of the flooring to the intersection of the tongue and the vertical edge (See figure 1)

**STEP TWO:** Measure the length of the tongue "L" from the tip of the tongue to the vertical edge. (See figure 1)

**STEP THREE:** Match dimensions "D" and "L" to the closest dimensions on the chart to determine which adapter plate to use.

| Part # | Pad | "D" Depth | "L" Length |
|---|---|---|---|
| 09-200-4001 | C-1 | 1/8-5/32<br>3.2-4 mm | 3/32-1/8<br>2.4-3.2 mm |
| 09-200-4002 | M-1 | 7/32<br>5.6 mm | 3/32-1/8<br>2.4-3.2 mm |
| 09-200-4003 | B-1 | 1/8<br>3.2 mm | 3/16<br>4.8 mm |
| 09-200-4004 | U-1 | 3/16<br>4.8 mm | 3/16<br>4.8 mm |

**Other pads not listed are available through your Powernail Dealer**

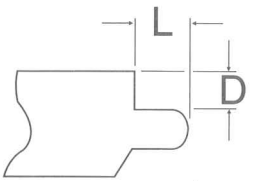



**FIGURE 1**

**STEP FOUR:** Nail down a sample of flooring. Be sure the flooring is from the same lot that is to be used on your current installation.

Nail placement should be at the intersection of the tongue and the vertical edge or per manufacturer's recommendations. SEE FIGURE 2

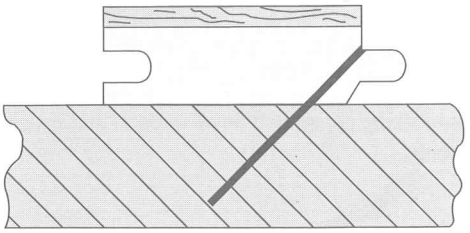


**FIGURE 2**

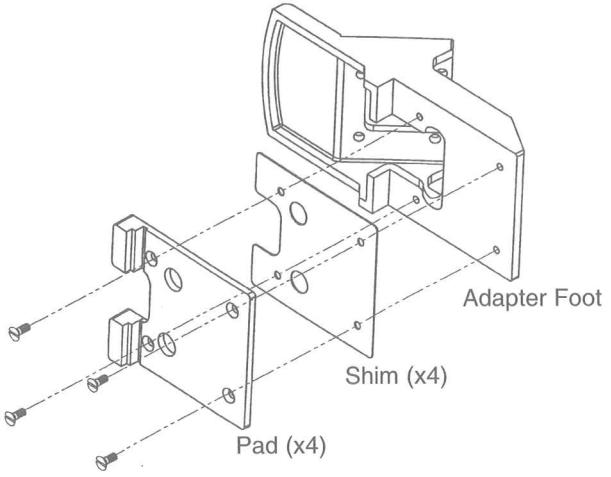
- Nail counter sink is flush

**STEP FIVE:** (Adjusting nail placement)

If Nail placement is too far out on the tongue, add a shim and retest Nailer. SEE FIGURE 3

If Nail placement is into the edge, remove a shim and retest nailer. SEE FIGURE 4. If there is no shim to remove. choose another pad.

Add or remove additional shims as needed. (See below)



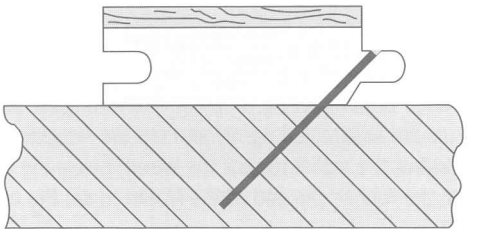



**FIGURE 3**

- Add Shim
- Improper Pad used
- Damage to Tongue

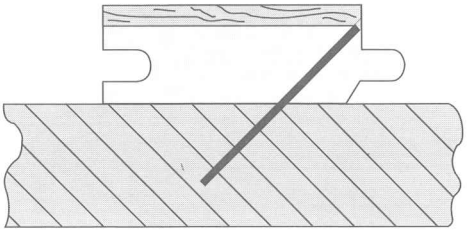


**FIGURE 4**

- Remove Shim
- Improper Pad used
- Damage to Surface or Flooring

**STEP SIX:** (Verify Counter Sink)

Correct counter sink is flush to slightly below the wood surface. SEE FIGURE2

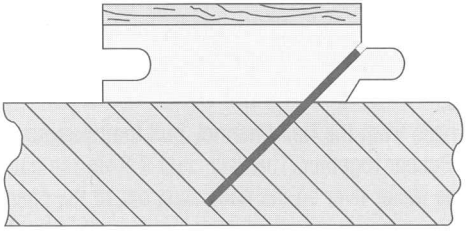


**FIGURE 5**

- Nail is counter sunk below Tongue

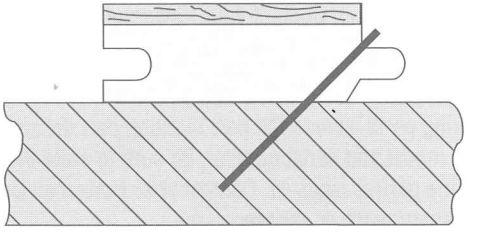
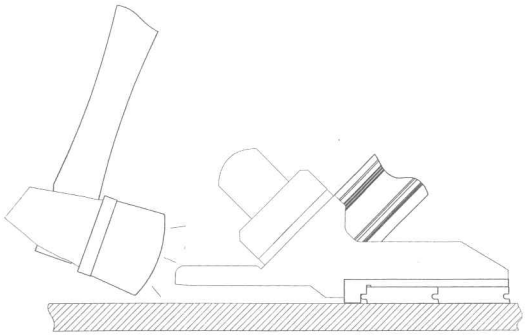


**FIGURE 6**

- Nail is not counter sunk

**RACKING WOOD:**
Place the Nailer Adapter Foot on the tongued edge of the flooring strip to be nailed. Be sure the Adapter Foot is pressed tightly against the edge of the flooring strip above the tongue. Be sure flooring strips are assembled tightly and tap the Adapter Foot with the rubber end of the mallet to rack the wood. Strike the Nailer Plunger with the rubber cap end of the Mallet to set the nail.



**WARNING:** Never hit the Nailer with excessive force or with the metal end of the mallet, this will damage the Nailer.

Before each use check all screws to be sure they are tight. Shock and vibration can loosen screws. Do not over tighten any screw.

**TO LOAD MODEL 250:**
Place up to one stick (100) of E-Powercleats nails, 1-1/2", 1-1/4" or 1" long into the Nail Channel feed slot. Pull back the spring loaded Nail Pusher over the nails until it contacts the last nail and slowly release the Nail Pusher.

**TO UNLOAD:**
To remove nails from the Nail Channel, pull the two round knobs on the Nail Pusher together. This will clear it from the nail path. Then turn the Nailer over so the nails slide out of the channel.

Do not use any nails other than Powernail E-Powercleats Nails, which are specifically designed for use in the Model 250 Powernailer. E-Powercleats nails are available in 1-1/2", 1-1/4" and 1" lengths to accommodate 5/16" to 5/8" Engineered T&G hardwood flooring. Contact your Powernail Dealer for E-Powercleats nails.

**PARTS & SERVICE:**
When ordering parts include the part number, part description, Powernailer model and serial number. Be sure to state the quantity of the part(s) required. Contact your Powernail Dealer for the necessary parts or service.

**TO CLEAR A NAIL JAM:**

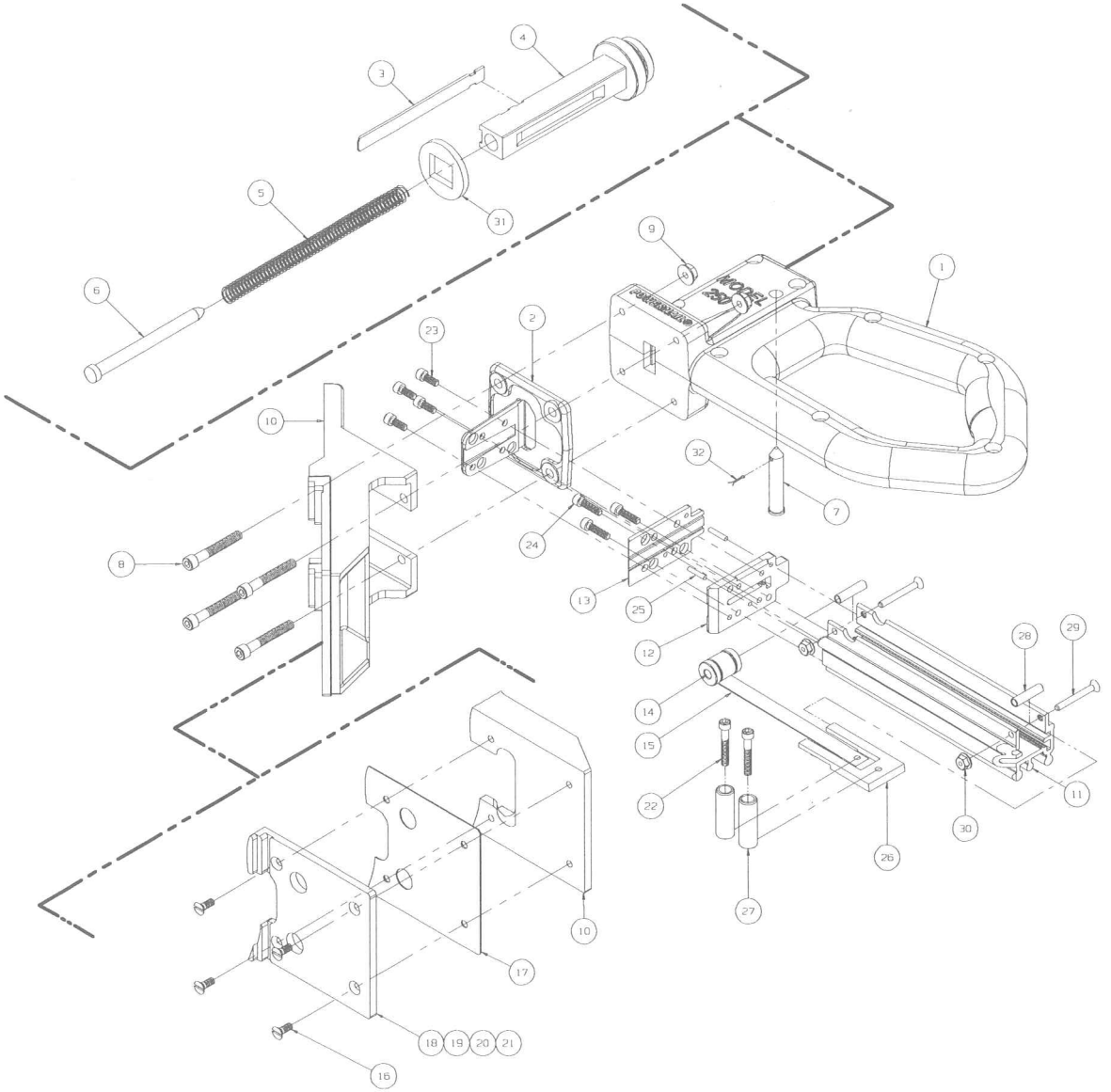
1. It helps to tap the Driving Blade back to the retracted position before trying to remove a jammed nail. A spare Driving Blade works best for this.

2. Try to pull the jammed nail out of the gate with a pair of long nose pliers. If this does not work remove the four (4) cap screws holding the Foot, Gate and Nail Channel Assembly together.

3. Separate the Foot and Gate with a screw driver just enough to clear out the jammed nail.

4. Put thread locking compound on all screws and reassemble the components.

# POWERNAILER MODEL 250



# MODEL 250 PARTS LIST

| ITEM | PART NO. | DESCRIPTION | QTY. REQ'D |
|---|---|---|---|
| 1. | 08-250-00-630 | BODY ASSEMBLY | 1 |
| 2. | 08-250-00-150 | FOOT | 1 |
| 3. | 08-250-00-380 | DRIVING BLADE | 1 |
| 4. | 07-250-00-370 | PLUNGER | 1 |
| 5. | 08-250-00-450 | PLUNGER SPRING | 1 |
| 6. | 08-250-00-410 | PLUNGER SPRING PIN | 1 |
| 7. | 08-250-00-640 | ROLLER PIN | 1 |
| 8. | 08-250-00-740 | 1/4-20 X 1-3/4 S.H.C.S (FOOT) | 4 |
| 9. | 08-250-00-750 | 1/4-20 FLANGE NUT | 4 |
| 10. | 09-200-3005 | ADAPTER FOOT | 1 |
| 11. | 09-200-3008 | CHANNEL | 1 |
| 12. | 09-200-3016 | GATE | 1 |
| 13. | 09-200-3017 | GATE PLATE | 1 |
| 14. | 09-200-3035 | SPOOL SET | 1 |
| 15. | 09-200-3034 | PUSHER SPRING | 1 |
| 16. | 09-200-3057 | #10-32 X 1/2 F.H. SLOTTED | 4 |
| 17. | 09-200-4000 | SHIM | 4 |
| 18. | 09-200-4001 | C-1 PAD | 1 |
| 19. | 09-200-4002 | M-1 PAD | 1 |
| 20. | 09-200-4003 | B-1 PAD | 1 |
| 21. | 09-200-4004 | U-1 PAD | 1 |
| 22. | 09-445-29745 | #10-32 X 1-1/4 S.H.C.S. (KNOBS) | 2 |
| 23. | 09-445-29754 | #10-32 X 1/2 S.H.C.S. (FOOT) | 4 |
| 24. | 09-445-29822 | #10-32 X 3/4 S.H.C.S. (GATE) | 3 |
| 25. | 09-445-29741 | 1/8 X 5/8 ROLL PIN | 2 |
| 26. | 09-445-29735 | NAIL PUSHER | 1 |
| 27. | 09-445-29735.2 | KNOBS | 2 |
| 28. | 09-445-29756 | STANDOFF | 2 |
| 29. | 09-445-29750 | #8-32 X 1-1/2 F.H.C.S. | 2 |
| 30. | 09-445-29751 | 8-32 LOCKNUT | 2 |
| 31. | 08-45-00-580 | BLADE RETAINER | 1 |
| 32. | 08-45-00-610 | COTTER PIN | 1 |

# MODEL 250 ASSEMBLIES, KIT AND ACCESSORIES

| ITEM | PART NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| A-1 | AW-250 | ALLEN WRENCH SET | 1 |
| A-2 | 09-200-3061A | CHANNEL ASSEMBLY | 1 |
| A-3 | 09-445-29763A | NAIL PUSHER ASSEMBLY | 1 |