

# POWERNAIL® CO.

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## Operation and Maintenance Manual

### MODEL 200 PNEUMATIC POWERNAILER® For Engineered T&G FLOORING 5/16" TO 9/16"



## 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.

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## 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.

Always **DISCONNECT THE AIR SUPPLY** before making any adjustments, repairing, clearing jams or when the Nailer is not in use.

Never attach the female end of a quick disconnect to the Nailer. This will trap air inside the Nailer and permit it to be discharged. Only the unrestricted male connection should be attached to the Nailer

Use only regulated compressed air, do not use bottled gases of any kind to power this Nailer. Normal air pressure should not exceed 120 psi or damage to the Nailer and seals may occur. Excess air pressure can cause the Nailer to explode.

**THE TRIGGER IS A SAFETY DEVICE** and should only be pulled when the Nailer is in proper position on the work surface and before the plunger is struck with the mallet. Do not tie or tape down the safety trigger as the Nailer could discharge if dropped on the plunger. The Nailer will not fire unless the trigger is pulled before the mallet blow.

Do not use the trigger safety as a lock up for the plunger then rack the wood using the locked up Nailer body. It will severely damage the mechanism and the Nailer.

**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 when air is connected to the Nailer. Always connect air hose to unloaded Nailer to prevent any accidental discharge from occurring.

Never leave the Nailer unattended while it is connected to an air supply.

## DESCRIPTION

The Powernailer® Model 200 Pneumatic Nailer is the latest model designed to bring Powernail quality to a pneumatic nailer. For those looking for the ease of use of a pneumatic tool, the Powernailer® Model 200—designed for use with only 1-1/2", 1-1/4" and 1" E-Powercleats® nails—provides several distinct advantages.

The Model 200 can nail down 9/16" to 5/16" Engineered tongue and groove hardwood flooring through the use

of easy to change, no mar pads. To use the Model 200, simply snug up the flooring by tapping the front of the Adapter Foot with the rubber cap end of the mallet, pull the safety trigger and tap 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 pneumatic Nailer, look to the company that has been the industry's quality leader for over 50 years, **POWERNAIL® COMPANY, INC.**

## OPERATION

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

### WARNING

Whenever air is connected to the Nailer, keep body parts away from the nail discharge path. Disconnect the air line before making adjustments or repairs on the Nailer. Only connect air to unloaded Nailer only to prevent accidental discharge.

Consult the Adapter Pad Chart and sketch for which adapter pad to use with the flooring you 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 200

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.

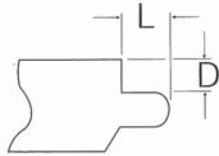
**Always follow the flooring manufacturer's recommendations for nail placement and nail schedules.**

### 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.



**FIGURE 1**

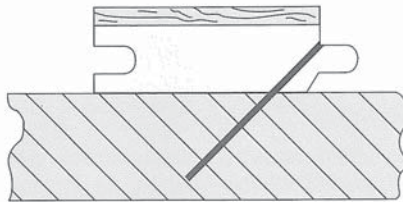
Part #	Pad	"D" Depth	"L" Length
09-200-4001	C-1	1/8-5/32 3.2-4 mm	3/32-1/8 2.4-3.2 mm
09-200-4002	M-1	7/32 5.6 mm	3/32-1/8 2.4-3.2 mm
09-200-4003	B-1	1/8 3.2 mm	3/16 4.8 mm
09-200-4004	U-1	3/16 4.8 mm	3/16 4.8 mm

Other pads not listed are available through your Powernail Dealer

**STEP FOUR:** Set compressor air gauge to 80 psi

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**

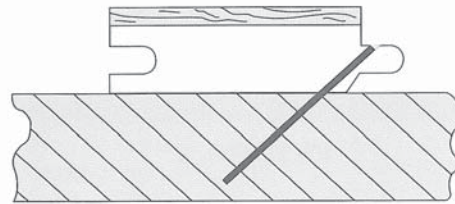
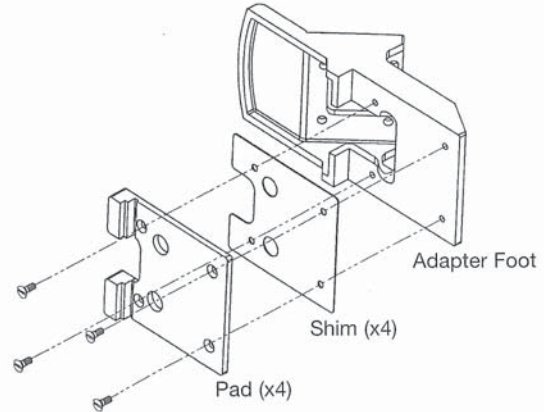
- Correct Air Pressure
- Nail counter sink is flush

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

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

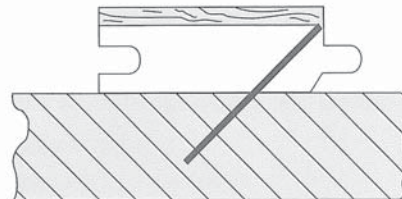
If Nail placement is into the edge, remove a shim and retest nailer. SEE FIGURE 4. If there is no shim to remove, choose another pad.

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



**FIGURE 3**

- Add Shim
- Improper Pad used
- Damage to Tongue



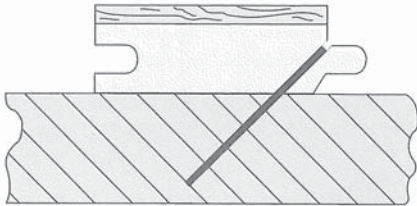
**FIGURE 4**

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

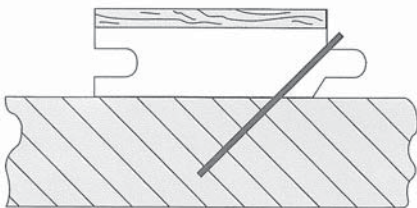
**STEP SIX: (Adjusting Counter Sink)**

To Set countersink, increase or decrease air pressure in 10 psi increments. SEE FIGURE 5 and 6

Correct counter sink is flush to slightly below the wood surface. SEE FIGURE 2

**FIGURE 5**

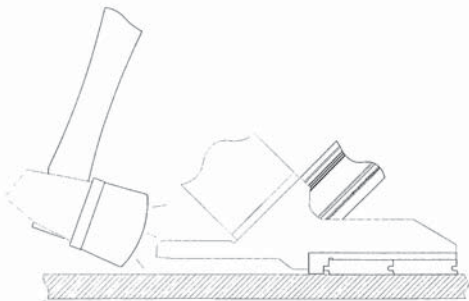
- Air pressure too high
- Nail is counter sunk below Tongue

**FIGURE 6**

- Air pressure is too low
- 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. Pull the Safety Trigger and tap the Nailer Plunger Rubber Cap with the rubber cap end of the Mallet to discharge the Nailer.

**WARNING**

It is not necessary to hit the Nailer hard to activate it. Never hit the Nailer with excessive force or with the metal end of the mallet, this will damage the Nailer.

Never use the Safety Trigger interlock to lock up the plunger and rack the wood with blows to the Nailer body. This will severely damage the safety mechanism and Nailer. This abuse and damage is not covered by the warranty.

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

**AIR SUPPLY:**

The air must be clean and dry. Dirty and/or wet air will damage the Nailer. A combination filter-regulator-lubricator is required for proper Nailer performance and should be placed close to the Nailer per manufacturer's recommendations.

Fill the lubricator with Mobil DTE Light Synthetic Hydrocarbon Oil. Adjust the lubricator to the manufacturers' recommendations. Do not over oil the Nailer, as excess oil will be discharged with the spent air and could stain the wood flooring, walls or furnishings. **We will not be responsible for oil stains.**

**WARNING**

Detergent oil is not recommended and may damage the seals. Consult the filter regulator lubricator manufacturer's recommendations for proper operation, settings and unit maintenance.

The air source must continuously deliver 70 to 110 psi and 3-1/2 cubic feet of air per minute to operate the Nailer. Connect a clean air hose and air regulator to the Nailer.

Check for air supply leaks that waste air and starve the Nailer of air thereby reducing its performance.

**LUBRICATION:**

If you do not use an in line lubricator, you must lubricate the Nailer manually. The frequency of lubrication is dependent upon the duty cycle of the Nailer. Continuous duty requires more frequent oiling than intermittent duty.

At least every eight (8) hours place two to four drops of Mobil DTE Light Oil, supplied with your Nailer, into the disconnected air line male connector attached to the Nailer.

**WARNING**

Do not over lubricate the Nailer, excess oil mist or drops will be vented with spent air when over lubricated. Excess oil could stain the wood flooring, walls or furnishings. Dry fire the Nailer, without nails, to purge excess oil, before you begin to nail down flooring. **We will not be responsible for oil stains.** Before storing the Nailer, lubricate and cycle the Nailer in insure internal parts are oil protected from corrosion.

**TO LOAD MODEL 200:**

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.

**WARNING**

Do not use any nails other than Powernail E-Powercleats Nails, which are specifically designed for use in the Model 200 Powernailer. E-Powercleats nails are available in 1-1/2", 1-1/4" and 1" lengths to accommodate 9/16" through 5/16" Engineered T&G hardwood flooring. Contact your Powernail Dealer for E-Powercleats nails.