



P210

PNEUMATIC FLOORING NAILER

P220

PNEUMATIC FLOORING STAPLER

OPERATING INSTRUCTIONS



WARNING

Read these instructions thoroughly before using this tool and keep it handy for reference.

PRIMATECH PNEUMATIC NAILER P210 & STAPLER P220

The pneumatic flooring tools P210 & P220 are heavy duty precision tools specially developed for the installation of hardwood flooring. Weighting only 12 pounds (5.5 kg), these ergonomically designed tools makes the installation of hardwood floor very easy, allowing the operator to set and fasten the boards in the standing position.

The P210 nailer is available in two configurations:

- for "L" type 16GA cleats available in lengths of 1½" (38 mm), 1¾" (44 mm) or 2" (50 mm) cleats
- for "T" type 16GA cleats, in length of 1½" (38 mm) or 2" (50 mm)

The P220 stapler takes standard ½" crown, 15½ga staples in lengths of 1½" (38 mm), 1¾" (44 mm) or 2" (50 mm).

For best result, only PRIMATECH cleats or staples should be used. For maximum performance, the manufacturer guidelines should be followed. Read carefully these instructions before operating this tool. It is important to understand warnings/cautions and the safety measures to ensure safe use of this tool.

Additional information is available directly from the manufacturer:



1135 Jeremy-Fortin
Québec, QC
Canada, G1J 1R8

Phone: 1 (800) 363-1962
1 (418) 522-7744
Fax: 1 (418) 522-7466

email: support@primatech.ca
web: www.primatech.ca/support

SAFETY MEASURES

These important guidelines should always be followed to work safely with the PRIMATECH pneumatic tool model P210/P220:

1. Read these instructions thoroughly before using this tool and keep it handy for reference if necessary.
2. Always keep hands, feet or other body parts away from the fastener ejection area.
3. Never aim the tool in any direction other than the working area.
4. Always carry or manipulate the tool by its handle while the air supply hose is connected.
5. Never hit the head cap of the actuator if the plastic base is not sitting perfectly on the working surface.
6. Never leave the tool laying down on its side while the air supply hose is connected; the tool should always be left on the floor, standing on its plastic base.
7. Do not alter or remove safety.
8. Always disconnect the air supply hose when the tool is not in use.
9. Never service or repair the tool, clear obstructions or make adjustments while the air supply hose is connected.

10. Only compressed air should be used to power this tool (110 psi, 7.6 bar maximum).
11. Never use oxygen or any other compressed gas as a power source for this tool. Explosion may occur.
12. Always wear OSHA-required Z-87 safety glasses with side shields.
13. Always wear proper ear and feet protection while the air supply hose is connected.



DO NOT REMOVE OR ALTER SAFETY. DO NOT USE A TOOL WITH A DEFECTIVE SAFETY. NEVER DEPRESS THE SAFETY CONTACT WITH YOUR HANDS WHEN TOOL IS CONNECTED TO AIR SUPPLY. EXTREME CAUTION IS ADVISED WHEN USING THIS TOOL.

CONNECTION & AIR SUPPLY SYSTEM

To ensure maximum performance and efficiency, and also a minimum of care, the PRIMATECH pneumatic tool requires clean, dry air. It is necessary to use a filter and a pressure regulator.

This tool needs a detachable male coupler with 3/8" NPT male threads. Use a 3/8" (1 cm) minimum diameter air supply hose. A smaller hose could cause a pressure drop when the tool is activated repeatedly.



ALWAYS USE A FREE-FLOW CONNECTION FOR THE COMPRESSED AIR SUPPLY TO PREVENT THAT THE TOOL STAYS CHARGED AFTER DISCONNECTING THE AIR SUPPLY HOSE.

Dirt, dust, and other particles in the air supply can cause sluggish operation or premature wear of many components of the tool. Drain water from the compressor tank regularly. The compressor start-stop limits should be set to deliver an air pressure of at least 110 psi (7.6 bar) at all time. Consult the compressor manual or dealer for instructions on how to make this adjustment.

At 90 psi (6.2 bar) and 60 hits per minute, the tool consumes approximately 6.6 cu.ft (0.18 m³) of air per minute at 70 °F (21 °C). Higher air pressure will increase the consumption of compressed air considerably .

The tool is designed to be operated with a compressed air pressure of 90 psi (6.2 bar). Occasionally, a higher pressure could be necessary, for example to use the tool with different species of harder wood. Always use the tools at minimum operating pressure in order to avoid unnecessary high noise level. In these more difficult cases, the compressed air pressure can be increased up to 110 psi (7.6 bar).

Check the compressed air supply hose before connecting to ensure that they are free from dirt or particles that can alter the performance of the tool. Pay special attention to any air leaks. Do not use a compressed air pressure higher than 110 psi (7.6 bar). Higher pressure can cause premature wear or damage to certain components. After assembly, check all the connections to prevent the leaks and to have maximum efficiency.

LOADING THE TOOL

Insert a row of PRIMATECH's cleats or staples inside the feeder channel and pull back on the plastic tab gently until it engages behind the fasteners. To release, simply squeeze the tab with your thumb and index and allow the spring to recoil slowly. The clip must be released slowly to prevent damage. For MAXIMUM PERFORMANCE, always use PRIMATECH fasteners. Make sure that the proper type of fasteners is used.



USE ONLY THE TYPE OF FASTENER IDENTIFIED ON THE FEEDER CHANNEL. THE USE OF ANY OTHER TYPE OF FASTENERS WILL DAMAGE THE TOOL.

Always operate the tool with fasteners in feeder channel. Damage may occur if the tool is operated without fasteners.

OPERATION

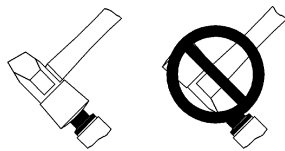
After connecting the hose and loading the tool with PRIMATECH fasteners, the PNEUMATIC TOOL is ready for use.

A 2.5 lbs (1.1 kg) hammer is supplied with the tool. Use the rubber face to help position the boards. Use the steel with caution to prevent damage to the boards.

Press the flooring firmly in place. The lip of the plastic base should rest snugly against the tongue of the flooring. Downward pressure should be applied to ensure proper seating of the fastener. To activate the tool, strike lightly the head cap (P-101) with the RUBBER FACE of the 2.5 lbs (1.1 kg) hammer supplied with the tool. **Never strike the tool with the metal end of the hammer.** If wood is slightly twisted, hitting the tool with more force will assist in pulling the board up snugly. **NEVER** strike the head cap when the tool is not sitting on the working surface.



USE ONLY THE RUBBER FACE OF THE HAMMER. USING THE STEEL END WILL DAMAGE THE TOOL AND VOID THE WARRANTY.



OPERATING THE TOOL WHEN THE SAFETY CONTACT IS NOT FULLY DEPRESSED WILL CAUSE PREMATURE WEAR OR DAMAGE TO THE DRIVING BLADE, PISTON AND CYLINDER.

Be it raw, factory finished or engineered, hardwood is a natural material subject to various factors, such as humidity, subflooring, installation procedure, type of tools, fasteners, etc. Installer should always ensure optimal surface preparation, comply with all manufacturer's recommendations and conduct a pre-installation test prior beginning any installation.



BEFORE STARTING AN INSTALLATION, FASTEN DOWN FEW BOARDS TO ASCERTAIN THAT YOU ARE USING THE RIGHT TOOL AND FASTENER.

Eye protection is recommended and should be worn by the operator and other in working area. Accidental ejection of fasteners or wood debris could cause severe eye injury.



In some environments, ear protection might be required, as working condition may include exposure to high noise levels which lead to hearing damage.



Wearing safety boots and safety hat is also highly recommended.

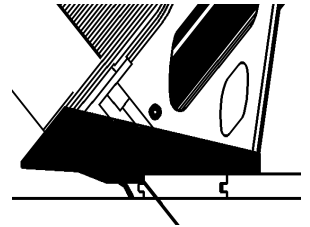


NOTE: All the personal protection equipments must meet national standards.

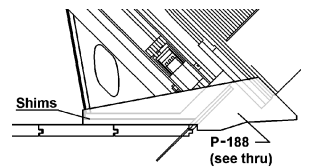


ADJUSTING FOR HARDWOOD THICKNESS

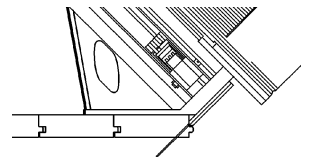
To fasten 3/4" or 25/32" flooring, no adjustment to the tool is required. Use the standard P-433 plastic base supplied with the tool.



To fasten 1/2" flooring, install optional adapter kit P-188. If necessary, use one or two shims (supplied) to insure that the gate/foot do not sit on the tongue. Insert shims between main body and plastic base as shown.



To fasten 33/32" flooring, remove plastic base as shown. You may apply the optional self-adhesive base P-986 to protect the finished surface of the flooring.



BEFORE STARTING AN INSTALLATION, FASTEN DOWN FEW BOARDS TO ASCERTAIN THAT YOU ARE USING THE RIGHT TOOL AND FASTENER.

PREVENTIVE MAINTENANCE

This tool requires daily lubrication. Few drops of oil in the air inlet is sufficient for 8 hours of use. Use only detergent-free oil such as Primatech P-090. This simple maintenance will ensure best performance and long life of your tool.



Check periodically to make sure that all screws are tight. Pay particular attention to the two screws holding the feeder channel as well as the screws and nuts on the feeder channel assembly who might loosen up over time. Be careful not to strip the threads when tightening. The use of a medium strength adhesive sealant such as the Loctite 242 is recommended for those screws and nuts.

MAINTENANCE & REPAIR

Disassembly of the tool must be done in a clean environment. Some parts can be easily damaged if disassembled with improper tools or by inadequate methods. Maintenance should only be performed by trained personnel. Use only genuine PRIMATECH replacement parts.



TO PREVENT INJURY, ALWAYS DISCONNECT THE AIR SUPPLY HOSE WHEN SERVICING OR DISASSEMBLING THE TOOL.

When assembling the tool, make sure that all hex cap screws (P-005) holding the casing on the base are tight. Inspect these screws regularly. Do not use any substitute to gasket P-107.

When servicing the tool, do not twist or force any parts. Damage may result from such abuse. If parts do not come loose easily, contact your PRIMATECH distributor for more information.

When opening the tool for maintenance, always clean all components of dirt, grit, or particles. Inspect the tool carefully for broken parts or excessive wear, and replace if necessary. When ordering parts, be sure to specify the right part number, and also the tool serial number.

CLEANING THE ACTUATOR

If the tool set the fastener and the driving blade does not return, this may indicate excessive dirt in the head of the tool, thereby impeding the cycling of the plastic piston (P-212). This may be caused by dirt, dust or other particles, or even water in the compressed air. In such case, remove the six (6) screws (P-015) and simply clean the interior and apply some grease to the plastic piston (P-212). We recommend non-detergent oil P-090, or silicon based lubricant in aerosol or petroleum jelly. Other types of lubricant may degrade the seals. It is normally possible to reuse the gasket (P-107) if it is not removed or peeled-off.

REPLACING THE DRIVING BLADE

1. Remove the plastic base.
2. Remove the four hex cap screws (P-005) holding the casing to the base (P-235) and remove it.
3. Remove the reinforcement plate.
4. Pull out the bumper and remove any debris that may be present.
5. Pull out the main piston (P-022) by pulling the driving blade.
6. Remove any debris and dispose of the broken driving blade and screw. Please note that the block (P-024) is reusable. At this time assess condition of cylinder (P-018). If marked or gouged, use a rat-tail file to smooth out walls. The piston (P-022) must be allowed to move without restriction.
7. Lock the piston in a vise, using a rag to prevent scoring. Open the split ring and use a long 3/16" Allen wrench to remove the broken blade. Discard the old screw.
8. Install the new driving blade firmly in position, using the existing block (P-024) and the new screw supplied. It is important that the blade be perpendicular to the piston. Use of a medium strength adhesive sealant such as Loctite 242 and tighten with as much force as possible.

Note: select the appropriate driving blade
use P-223 driving blade for the P210 nailer
use P-037 driving blade for the P220 stapler
9. Reverse the order of instructions to reassemble.

TROUBLESHOOTING

This section will help to diagnose common problems and will give suggestions to solve them. Consult our on-line Technical Support site at www.primatech.ca/support for updated documents and more tips.



TO PREVENT INJURY, ALWAYS DISCONNECT THE AIR SUPPLY HOSE WHEN ADJUSTING, SERVICING OR DISASSEMBLING THE TOOL.

(1) FIRST: CHECK THE COMPRESSED AIR SUPPLY

Many of problems come from a faulty or inadequate compressed air supply system. Before attempting to repair the tool, the following points should be checked:

- a) check the pressure at the output of the compressor, adjust to 90-110 psi (6.2-7.6 bar)
- b) check the tank pressure of the compressor & adjust the start/stop limits
- c) check the air delivery system, use a hose of at least 3/8"
- d) use fewer tools simultaneously; do not exceed the capacity of the compressor or of the delivery system
- e) drain water from the compressor

(2) SECOND: CHECK FOR AIR LEAKS

At rest, this tool should not have any air leak. Before attempting to repair the tool and replace parts, check the following:

- a) Tighten screws P-015 or replace gasket P-107
- b) Check for broken spring P-010 or broken actuator P-108
- c) Check rectangular ring P-009; replace if necessary
- d) Clean & lubricate the head assembly; re-position the plastic piston and re-assemble the head assembly carefully
- e) Check interior of head P-006 for scratches
- f) Check top ring P-014; replace if necessary

(3) TOOL DOES NOT DRIVE FASTENERS

- a) Check that there are fasteners in the feeder channel
- b) Make sure the feeder clip is engaged behind the fasteners
- c) Check the front end of the feeder channel for burrs or damages
- d) Check the safety element
- e) Check if the driver is stuck in down position (see 6 below)
- f) Check for obstruction in the fastener ejection area

(4) FASTENERS ARE NOT SET COMPLETELY

- a) First, verify air supply (see 1 above)
- b) Clean tool and lubricate with detergent-free oil (P-090) as directed, particularly the head assembly
- c) Increase air pressure to 110 psi (7.6 bar) for harder woods
- d) Check the driving blade for broken end
- e) Ensure the tool is well seated on the floor while ejecting

(5) TOOL DOES NOT ACTIVATE

- a) Check the air supply
- b) Check the actuator P-108 and the plastic piston P-212; reassemble the head assembly carefully
- c) Clean and lubricate the head assembly with detergent-free oil (P-090)

(6) DRIVING BLADE DOES NOT RETURN

- a) Check for jammed fastener or obstruction
- b) Check gate/foot and end of feeder channel for damages or burrs.
- c) Check the driving blade
- d) Check for broken spring P-010
- e) Check for damaged or missing bottom O-ring P-014
- f) Tighten reinforcement plate
- g) Clean and lubricate the head assembly with detergent-free oil (P-090).
- h) Check that the bumper is in place.

(7) TOOL DOES NOT COMPLETE CYCLE

- a) Clean & lubricate the head assembly; re-position the plastic piston and re-assemble the head assembly carefully.
- b) Check for broken spring P-010 or broken actuator P-108.
- c) When replacing the plastic piston or the actuator with new parts, the tool may be hesitant or may not complete the cycle. Remove fasteners and disengage the safety, then actuate the tool repeatedly. Remove air supply and reconnect to reset tool if necessary.

(8) BROKEN OR WORN DRIVING BLADE

Replace the driving blade. Follow carefully the instructions supplied with the replacement part. Failure to follow the instructions carefully will result in repeated breakage of the driving blade.

Note: select the appropriate driving blade
use P-223 driving blade for the P210 nailer
use P-037 driving blade for the P220 stapler

(9) POOR FEED OR TOOL JAMMING

- a) Make sure the feeder clip engages behind the fasteners
- b) Check the gate and foot for damages or wear
- c) Check the front end of the feeder channel for burrs or damages

(10) OTHER PROBLEMS

Contact Primatech by phone

1 (800) 363-1962

1 (418) 522-7744

by email

support@primitech.ca

or consult our on-line Technical Support site at

<http://www.primitech.ca/support>

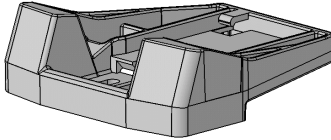
ACCESSORIES

- P-149 18" (45 cm) "L" feeder channel
- P-951 "T" type cleats conversion kit

- P-080 Hammer
- P-084 White rubber cap
- P-188 Adapter for 1/2" to 5/8" (13 to 17mm) solid
- P-288 Adapter for 3/4" to 33/32" (19 to 26mm)
- P-090 Non detergent oil

TrakEdge Adapters for factory finished floorings.

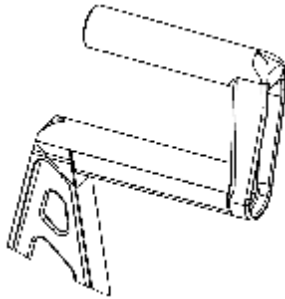
- A-001 for standard 3/4" floorings
- A-002 for 1/2" floorings
- A-004 for 9/16" floorings



Custom fits to flooring manufacturers specifications also available. Contact us for more information.

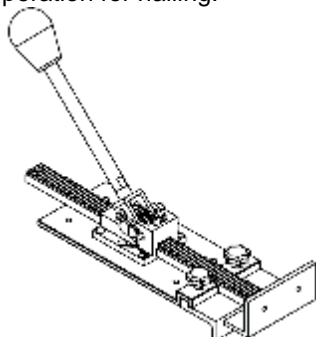
A-800 Extension Handle

The A-800 extension handle allows to operate the tool at a higher or lower position. It provides a better tool control, improve ease and stability when sliding the tool sideways.



A-400 Prim-Jack

The *Prim-Jack* floor tightening jack is designed to hold flooring strips tight for nailing. It can straighten crooked or bowed flooring strips and hold in the nailing position. The Prim-Jack is designed as one tool that will both push or pull the flooring strips tight. With its removable shoe you can efficiently position the jack on the floor or in the field of flooring without damage to the flooring, enabling hands-free operation for nailing.



TOOL WARRANTY AND LIMITATIONS

Primatech warrants that newly purchased fastening tools, parts and accessories will be free from defects in material and workmanship (excluding wear parts) for the period shown below, after the date of purchase by the original user as evidenced by a valuable purchase invoice.

ONE-YEAR LIMITED WARRANTY will apply to all parts, except those subjected to normal wear

SEVEN-YEAR EXTENDED LIMITED WARRANTY covers tool casing.

WARRANTY STATEMENT

Primatech 's sole liability hereunder will be to replace any part or accessory which proves to be defective within the specific time period. Any replacement part or accessories provided in accordance with this warranty will carry a warranty for the balance of the period of warranty applicable to the part it replaces. When repair or replacement of part or tool is required, the complete tool or part(s) must be returned to Primatech or at such authorized warranty service point of Primatech, transportation prepaid, with a copy of proof of purchase evidencing that the part or tool is within the warranty period.

This warranty is void as to any tool which has been subjected to misuse, abuse, accidental or intentional damage, used with fasteners not meeting Primatech specifications, size or quality, improperly maintained, repaired with other than genuine Primatech replacement parts, damaged in transit or handling, or which, in Primatech 's sole opinion, has been altered, modified or repaired in a way that affects or detracts from the performance of the tool.

PRIMATECH MAKES NO WARRANTY, EXPRESSED OR IMPLIED, RELATING TO MERCHANTABILITY, FITNESS, OR OTHERWISE, EXCEPT AS STATED ABOVE, and Primatech's liability AS STATED ABOVE AND AS ASSUMED ABOVE is in lieu of all other warranties arising out of, or in connection with, the use and performance of the tool, except to the extent otherwise provided for by applicable law.

PRIMATECH SHALL IN NO EVENT BE LIABLE FOR ANY DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES WHICH MAY ARISE FROM LOSS OF ANTICIPATED PROFITS OR PRODUCTION, SPOILAGE OF MATERIALS, INCREASED COST OF OPERATION, OR OTHERWISE. Any liability, if any, connected with the use of the tool shall terminate upon the expiration of the warranty period specified above.