

Primatech

P245

**PNEUMATIC FLOORING TOOL
OPERATING INSTRUCTIONS**



WARNING

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

PRIMATECH PNEUMATIC TOOL P245

The pneumatic flooring tool P245 is a professional precision tool specially developed for the installation standard 3/4" solid hardwood flooring. It has been designed for easy maintenance where major components can be easily accessed. Weighting less than 10 pounds (4.5 kg), this ergonomically designed tool makes the installation of hardwood floor very easy, allowing the operator to set and fasten the boards in the standing position. It is offered in 3 different configurations:

- nailer P245L takes standard L-type 16GA cleats in lengths of 1½" (38 mm), 1¾" (44 mm) or 2" (50 mm)
- nailer P245T takes T-type 16GA cleats in lengths of 1½" (38 mm) or 2" (50 mm)
- stapler P245S takes ½" crown 15½GA staples in lengths of 1½" (38 mm), 1¾" (44 mm) or 2" (50 mm)

For best results, only PRIMATECH fasteners should be used. Read these instructions carefully before operating the tool. It is important to understand warnings/cautions and the safety measures to ensure safe use of the tool.

Additional information is available directly from the manufacturer:



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

Phone: 1 (800) 363-1962 or 1 (418) 522-7744
Fax: 1 (418) 522-7466
email: support@primatech.ca
web: support.primatech.ca

SAFETY MEASURES

These important guidelines should always be followed to work safely with the PRIMATECH pneumatic tool model P245:

- Read these instructions thoroughly before using this tool and keep it handy for reference if necessary.
- Always keep hands, feet or other body parts away from the fastener ejection area.
- Never aim the tool in any direction other than the working area.
- Always carry or manipulate the tool by its handle while the air supply hose is connected.
- Never hit the head cap of the actuator if the plastic base is not sitting perfectly on the working surface.
- 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.
- Always disconnect the air supply hose when the tool is not in use or when moving to another work area.
- Never service or repair the tool, clear obstructions or make adjustments while the air supply hose is connected.
- Only compressed air should be used to power this tool; do

not exceed 110 psi (7.6 bar).

- Never use oxygen or any other compressed gas as a power source for this tool. Explosion may occur.
- Always wear OSHA-required Z-87 safety glasses with side shields.
- Always wear proper ear and foot protection while the air supply hose is connected.
- Always remove fasteners from the feeder channel before servicing 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. The use of a 3/8" (1 cm) diameter air supply hose is recommended. A smaller hose or a hose longer than 50' (15 m) 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.



UNLOAD TOOL BEFORE CONNECTING AIR TO PREVENT ACCIDENTAL DISCHARGE.



AFTER MOVING TOOL TO A DIFFERENT WORK AREA, OR AFTER ANY MAINTENANCE TO THE TOOL, ALWAYS ENSURE PROPER OPERATION BY ACTUATING TOOL SEVERAL TIMES WITHOUT FASTENERS OVER THE SUBFLOORING .

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 100 psi (7 bar) at all times. Consult the compressor manual or dealer for instructions on how to make this adjustment.

At 80 psi (5.5 bar) and 100 hits per minute, this tool consumes approximately 4.7 cu.ft (130 l) of air per minute at 70°F (21°C). Higher air pressure will increase the consumption of compressed air.

This tool is designed to be operated with a compressed air pressure of 80 to 100 psi (5.5-7.0 bar). An air pressure of 90 psi (6.2 bar) is adequate for most situations, although occasionally, a higher pressure could be necessary. For example, to use the tool with different species of harder wood. Always use the tool 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 (7.0 bar). It is very important not to exceed this maximum pressure to prevent leaks, premature wear or damage to the tool.

Check the compressed air supply hose before connecting to ensure that it is 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 leaks and to have maximum efficiency.



TO PREVENT ACCIDENTAL DAMAGE TO THE FINISHED SURFACE OF THE INSTALLED FLOOR, REST THE TOOL ONTO THE SUBFLOORING WHEN CONNECTING AIR, LOADING TOOL OR PERFORMING ANY MAINTENANCE TO THE TOOL.

LOADING THE TOOL

For P245 nailer: insert a row of PRIMATECH cleats inside the feeder channel and pull back on the plastic tab gently until it engages behind the cleats. To release, simply squeeze the tab with your thumb and finger and allow the spring to recoil slowly. The clip must be released slowly to prevent damage. For MAXIMUM PERFORMANCE, always use PRIMATECH cleats. The PRIMATECH model P245 comes standard with the P-248 feeder channel to accommodate 1½" (38 mm), 1¾" (44 mm) or 2" (50 mm) L-type cleats.

For the P245 stapler: pull the pusher completely in the rear position and apply downward pressure to engage it into the locking position. Drop strips of staples through the slot in top of magazine. While pulling back and applying upward pressure, release the pusher from its locking position. Then, gently allow it to move forward to engage the staples into the magazine. The slide must be released slowly to prevent damage. For maximum performance, always use Primatech staples.

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



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

OPERATION

Unload tool and rest it onto the subflooring. Connect the hose and cycle tool once or twice without fasteners. After loading the tool, the PNEUMATIC TOOL model P245 is ready for use.

Use only the 2.5 lbs (1.1 kg) hammer supplied with the tool. The use of other type of hammers may affect performance. The rubber face of the hammer can be used with care to help position the boards.

With the flooring firmly in place, position the tool onto the flooring and apply downward pressure to ensure proper seating of the fastener. Strike the head cap Q-001 with the hammer to activate the tool, **Use only the RUBBER FACE of the hammer to activate the**



tool. Using the steel end will damage the tool and void the warranty. 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.

Eye protection is recommended and should be worn by the operator and others 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 conditions may include exposure to high noise levels which lead to hearing damage.



Wearing safety boots and a safety hat is also highly recommended.



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



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 manufacturers recommendations and conduct a pre-installation test prior to beginning any installation.



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

PREVENTIVE MAINTENANCE

This tool requires minimal lubrication. Use only detergent-free oil such as Primatech P-090. A few drops of oil weekly in the air inlet is sufficient. Other types of lubricant may degrade the seals.



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 which might loosen up over time. The use of a medium strength adhesive sealant is recommended.

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 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, as well as the tool serial number.



AFTER ANY MAINTENANCE TO THE TOOL, REMOVE ALL FASTENERS BEFORE CONNECTING AIR AND ACTUATE THE TOOL REPEATEDLY OVER A PIECE OF WOOD OR SUBFLOORING TO INSURE PROPER OPERATION.

ASSEMBLING THE VALVE

This section describes how to disassemble/assemble all the components together. If the tool becomes sluggish or does not set the fastener, it may indicate excessive dirt, dust, other particles, or even water in the head assembly, thereby impeding the cycling of the valve. The first step in troubleshooting is to clean up the head assembly. However, it is usually not necessary to completely disassemble the valve. The following procedure assumes that the gate/foot assembly (P-429) are already installed. Refer to the "Replacement Parts" document for a complete list and schematic of the tool.

- Unscrew the head P-206 and take it out of the tool.
- Clean the inside wall of the head body P-206 and lubricate lightly with a non-detergent oil. Check the o-ring Q-006A. It is generally not necessary to remove the head cap Q-001.
- It is usually not required to separate the head disk Q-001A from the head cap Q-001. If necessary, insert the head disk firmly in place into the head cap.
- Align the head cap Q-001 with the head P-206 and snap the cap in place. It is usually not required to remove the head cap from the head.
- Pull out the valve assembly P-043 and perform a visual inspection of all rings. Check that the actuator assembly P-642/P-644 is sliding easily on valve P-043. Clean and lubricate lightly.
- If necessary, actuator cap P-644 may be unsnapped from actuator P-642 by inserting the long arm of an Allen wrench through the hole on top of the actuator and using a hammer with moderate force to get the parts apart.
- Check the condition of all rings and seals on the actuator P-642, actuator cap P-644 and main valve P-043.

- Lightly lubricate actuator P-642 and insert it into valve P-043.
- Lightly lubricate the permanent seal of actuator cap P-644. Do not lubricate the small o-ring (see part P-644C on schematic). Insert the actuator cap and forcibly snap it into the actuator P-642
- Remove the piston assembly .
- Remove the cylinder by pushing on the seal bushing when tool is upside down. The bumper and the seal bushing will be ejected at the same time.
- Perform a visual inspection of all rings on the cylinder and check that the band-valve P-618A is properly installed onto the main cylinder P-118.
- Check that the piston sub-assembly, including rings and driving blade, is sliding easily into the cylinder P-118. It should offer some resistance, but if it moves too easily, it may be required to replace the piston wear-ring P-622A.
- Insert the seal bushing P-525B or P-525C in the lower section of main body P-316 and engage it onto the upper portion of the gate/foot assembly (P-429). A flat screwdriver can help to seat the seal bushing correctly. Use the wooden handle of a hammer to tap the seal bushing completely in place. It is usually not necessary to pull-out the seal bushing P-525B for maintenance.
- With the tool in the upright position, push the bumper P-525A in place, indexed onto the seal bushing and use the wooden handle of a hammer to seat the bumper in position.
- Insert the piston sub-assembly into the main body P-216 and engage the driving blade P-423 in the seal bushing opening.
- Insert cylinder in main body.
- Insert valve assembly and pull down the valve P-043 to sit it onto the cylinder and pull up the actuator.
- Screw the head on body.



ALWAYS PULL DOWN THE VALVE AGAINST THE CYLINDER BEFORE INSERTING THE HEAD ASSEMBLY.



AFTER REASSEMBLY, ALWAYS ACTUATE THE TOOL REPEATEDLY WITHOUT FASTENERS AGAINST A PIECE OF WOOD TO INSURE PROPER OPERATION.

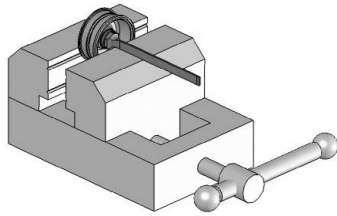
REPLACING THE DRIVING BLADE

The driving blade is sold separately or supplied as a complete subassembly with the piston P-622.

- Unscrew the head assembly P-306 and take it out of the tool. Afterwards, remove the valve assembly.
- Pull out the piston assembly from the cylinder. Remove any debris and assess condition of cylinder P-118. If marked or gouged, use fine sand paper to smooth out walls. The piston P-622 must be allowed to move without restriction.

Skip to step (7) if you are replacing with a piston/driving blade subassembly.

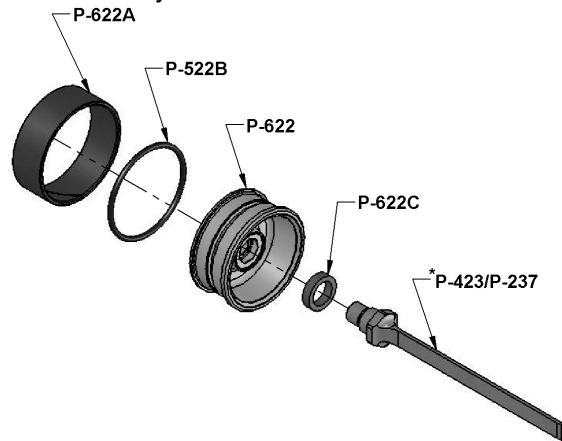
- Lock the piston in a vise, using a rag to prevent scoring. Always use the top and bottom faces to secure the piston in place.
- Remove the broken driver using a 1/2" closed-end wrench.
- Put one drop of medium strength adhesive sealant onto the threads of the piston P-622.



- Insert the P-622C lock washer and screw the new driving blade onto the piston P-622. Tighten very hard (140 lb-in minimum). Make sure that the lock washer P-622C is completely flattened.
- Insert the piston sub-assembly into the main body P-216 and engage the replacement driving blade in the seal bushing opening.

Note: select the appropriate driving blade
use P-423 driving blade for the "L" or "T" nailer configurations
use P-237 driving blade for the stapler configuration

- Insert valve assembly and follow the procedure to complete the assembly of the head.



TROUBLESHOOTING PRIMACT PNEUMATIC NAILERS/STAPLERS

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



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

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:

- check the pressure at the output of the compressor; adjust to 80-100 psi (5.5-7.0 bar) as required
- check the tank pressure of the compressor & adjust the start/stop limits
- check the air delivery system; a 3/8" hose is recommended
- use fewer tools simultaneously; do not exceed the capacity of the compressor or of the delivery system
- drain water from the compressor

SECOND: CHECK FOR AIR LEAKS

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

- Check all seals in head, valve and cylinder assemblies; replace if necessary
- Check the top edge of main cylinder for burrs or dents
- Clean & lubricate the head and valve assemblies; re-assemble the head assembly carefully
- Check the interior of the head for scratches

TOOL DOES NOT DRIVE FASTENERS

- Check for fasteners in the feeder channel
- Check that the proper type of fasteners is used; 16GA & 18GA nails are not interchangeable
- Make sure the feeder clip is engaged behind the fasteners
- Check the front end of the feeder channel for burrs or damages
- Check the safety mechanism
- Check if the driver is stuck in down position (see note below)
- Check for obstruction in the fastener ejection area

HEAD ASSEMBLY LOOSENS UP DURING OPERATION (PRIMACT tools only)

- Remove the head assembly
- Make sure the cylinder is fully screwed onto it.
- Re-insert the head assembly in place and insure that it is fully screwed in place using moderate effort.
- Lock in place with the head lock.
- Check regularly that the head is always fully screwed.

FASTENERS ARE NOT SET COMPLETELY

- First, check air supply (see first note)
- Clean and lubricate tool; particularly the head assembly
- Increase air pressure when working with harder woods; do not exceed 110 psi (7.6 bar)
- Check the driving blade for broken end
- Check piston wear-ring; replace if piston is sliding too easily
- Check seal bushing
- Check the adjustment of the base and ensure the tool is well seated on the floor while ejecting

TOOL DOES NOT ACTIVATE

- Check air supply
- Inspect the head assembly and check all seals; reassemble carefully

DRIVING BLADE DOES NOT RETURN

- Check for jammed fastener or obstruction
- Check gate/foot and end of feeder channel for damages or burrs.
- Check the driving blade
- Inspect the head assembly and check all seals; clean & lubricate.
- Check band-valve on cylinder
- Check that the bumper and seal bushing are in place; severe damages will occur if missing

BROKEN OR WORN DRIVING BLADE

Replace the driving blade ; failure to follow the instructions carefully will result in repeated breakage of the driving blade.

OTHER PROBLEMS

Contact technical support
by phone

1 (800) 363-1962
1 (418) 522-7744

by email
on-line

support@primatech.ca
<http://support.primatech.ca>



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 valid 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 remainder 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. Serial # must be intact and legible for warranty to apply.

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.