IMPORTANT!
DO NOT DESTROY
It is the customer's responsibility to have all operators and service personnel read and understand this manual.

OPERATING MANUAL AND TOOL SCHEMATIC
INTRODUCTION

The PASLODE PALM312 palm nailer is a quality-built tool designed for use in residential nail applications in place of a framing nailer or manual hammer. This tool will deliver efficient, dependable performance when used according to the manufacturer’s guidelines. Please study this manual including the safety instructions to fully understand the operation of this tool.

DO NOT ATTEMPT TO OPERATE THE TOOL UNTIL YOU READ AND UNDERSTAND ALL SAFETY PRECAUTIONS AND MANUAL INSTRUCTIONS.

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TOOL WARRANTY AND LIMITATIONS

Paslode warrants that newly purchased power 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 delivery to the original user.

90-DAY LIMITED WARRANTY

A 90-day warranty will apply to all parts, except those which are specifically covered by an extended warranty.

EXTENDED LIMITED WARRANTY FOR ON S ITE CONSTRUCTION APPLICATIONS

A one year warranty will apply to all housing and cap assembly casings.

NORMAL WEARING PARTS

The following parts are considered normal wearing parts and are not under warranty:

✓ Bumper
✓ Drive Blades
✓ O-Rings & Gaskets
✓ Piston Rings

WARRANTY STATEMENT

Paslode’s sole liability hereunder will be to replace any part of 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.

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

PASLODE MAKES NO WARRANTY, EXPRESSED OR IMPLIED, RELATING TO MERCHANTABILITY, FITNESS, OR OTHERWISE, EXCEPT AS STATED ABOVE, and Paslode’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.

PASLODE 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.

Paslode reserves the right to change specifications, equipment, or designs at any time without notice and without incurring obligation.
TOOL AND FASTENER SPECIFICATIONS

TOOL SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>PALM312</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEIGHT</td>
<td>TBD</td>
</tr>
<tr>
<td>WIDTH</td>
<td>TBD</td>
</tr>
<tr>
<td>LENGTH</td>
<td>TBD</td>
</tr>
<tr>
<td>OPERATING PRESSURE</td>
<td>80 to 120 p.s.i. (5.5 to 8.3 bars)</td>
</tr>
<tr>
<td>ASSEMBLY HARDWARE SYSTEM</td>
<td>Metric</td>
</tr>
</tbody>
</table>

FASTENER SPECIFICATIONS

<table>
<thead>
<tr>
<th>NAIL TYPE</th>
<th>Bulk, single nails</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAIL LENGTH</td>
<td>1 1/2” to 3 1/2”</td>
</tr>
<tr>
<td>NAIL HEAD DIAMETER</td>
<td>5/16”(8mm)</td>
</tr>
<tr>
<td>NAIL SHANK DIAMETER</td>
<td>16d</td>
</tr>
</tbody>
</table>

TOOL AIR FITTINGS:
This tool uses a 1/4” N.P.T. male plug. The inside diameter should be .28” (7mm) or larger. The fitting must be capable of discharging tool air pressure when disconnected from the air supply.

OPERATING AIR PRESSURE:
80 to 120 p.s.i. (5.5 to 8.3 bars). Select the operating air pressure within this for best tool performance.
DO NOT EXCEED THIS RECOMMENDED OPERATING PRESSURE.
SAFETY INSTRUCTIONS

SAFETY FIRST
These safety instructions provide information necessary for safe operation of Paslode® tools. DO NOT ATTEMPT TO OPERATE THE TOOL UNTIL YOU READ AND UNDERSTAND ALL SAFETY PRECAUTIONS AND MANUAL INSTRUCTIONS.

WEAR EYE AND HEARING PROTECTION
Always wear hearing and eye protection devices, that conform to ANZI Z87.1 requirements, when operating or working in the vicinity of a tool. As an employer you are responsible for enforcing the use of eye protection. Wear hard hats in environments that require their use.

THE TOOL MUST BE USED ONLY FOR THE PURPOSE FOR WHICH IT WAS DESIGNED
Do not throw the tool on the floor, strike the housing in any way or use the tool as a hammer to knock material into place.

NEVER ENGAGE IN HORSEPLAY WITH THE TOOL
The tool is not a toy so do not use it like one. Never engage in horseplay with the tool or point it at yourself or any other person, even if you think it is not loaded.

NEVER ASSUME THE TOOL IS EMPTY
Check the tool nose for fasteners that may be left in the tool. Even if you think the tool is empty or disconnected, never point it at anyone or yourself. Unseen fasteners could fire from the tool.

NEVER CLAMP THE TOOL NOSE IN A LOCKED OR OPERATING POSITION
The nose of the tool must never be tampered with, disabled or clamped in a locked or operating position since this will cause the tool to drive a fastener any time the work contacting element depressed.

DO NOT LOAD FASTENERS WITH THE AIR LINE CONNECTED, OR WITH THE TOOL TRIGGER OR WORK CONTACTING ELEMENT DEPRESSED
When loading fasteners into the tool be sure you disconnect the air line and that you do not depress the nose trigger or work contacting element.

OPERATE THE TOOL ONLY ON A WORKPIECE
The tool should be operated only when it is in contact with the workpiece. Even then you should be careful when fastening thin material or working near the edges and corners of the workpiece since the fasteners may drive through or away from the workpiece.

DISCONNECT THE TOOL WHEN NOT IN USE
Always disconnect the tool from the air line when it is not in use, when you leave the work area or when moving the tool to a new location. The tool must never be left unattended because people who are not familiar with the tool might handle it and injure themselves or others.

CARRY THE TOOL ONLY BY THE CASING
Always carry the tool by the tool casing. Never carry the tool by the air hose or with the trigger depressed since you could drive a fastener unintentionally and injure yourself or someone else.

DO NOT WEAKEN THE TOOL HOUSING
The tool housing is a pressure vessel and should never be weakened by having your company’s name, area of work or anything else stamped or engraved into its surface.

DISCONNECT THE TOOL WHEN PERFORMING REPAIRS AND CLEARING JAMS
Never attempt to clear a jam or repair a tool unless you have disconnected the tool from the air line and removed all remaining fasteners from the tool.

ALWAYS USE THE PROPER FITTING FOR THE TOOL
Only MALE pneumatic type air connectors should be fitted to the tool, so that high pressure air in the tool is vented to atmosphere as soon as the air line is disconnected. NEVER install FEMALE quick disconnect couplings on the tool. Female couplings will trap high pressure air in the tool when the air line is disconnected, leaving the tool charged and able to drive at least one fastener.

DO NOT EXCEED THE MAXIMUM RECOMMENDED AIR PRESSURE
Operate the tool only at the recommended air pressure. Do not exceed the maximum air pressure marked on the tool. Be sure the air pressure gauge is operating properly and check it at least twice a day. Never use any bottled air or gases such as oxygen to operate the tool since they could cause the tool to explode.

INSPECT TOOL FOR PROPER OPERATION
Clean the tool at least daily and lubricate as required. Never operate a dirty or malfunctioning tool.

USE ONLY PASLODE RECOMMENDED PARTS
Use only parts specifically designed and recommended by Paslode for use in the tool and for work to be done. Using unauthorized parts and fasteners or modifying the tool in any way creates dangerous situations. Replace all missing warning labels—refer to tool schematic for correct placement and part number.

WARNING
Failure to follow any of the above instructions could result in severe personal injury to tool user and bystanders or cause damage to tool and property.
TOOL OPERATION

WARNING

The PALM312 Palm Nailer will commence operating when the tool nose with nail inserted is pushed against the work surface. The nailer will continue to deliver successive hammer strikes until the nail is fully driven, or the tool nose is removed from the work surface. Never press tool nose down unless it has been correctly placed to drive a nail into a safe work surface.

Loading Fasteners

STEP 1: Connect Palm Nailer to air supply

STEP 2: Insert nail (i) into tool nose piece (ii), nail head first. The magnet in the nose piece will help hold nail in position while using Palm Nailer. Do not press nail into nose piece because nailer may commence driving.

STEP 3: The Palm Nailer is now ready to drive nails.

Operation

1. Hold the tool housing (iii) securely. Do not press nose piece until you are ready to commence nailing.

2. Place the nail (iv) in the nose piece onto the work surface. If fastening metal connectors such as joist hangers, centre the nail point in pre-punched holes located on the metal connector.

3. Press the tool downward toward work surface (v), and continue steady downward pressure until nail is completely driven into work material (vi).

4. Lift tool from work surface once nail is completely driven.

5. To adjust power for harder or softer work surfaces increase or decrease air pressure.

6. Disconnect air supply from tool when finished operation.
MAINTENANCE

Paslode® tools are built for ease of maintenance. A few simple details will assure trouble-free operation and long tool life. Anyone who uses or maintains the tool must read the safety and maintenance instructions. Study the schematic drawing before starting any repairs on the tool.

Air-operated tools must be inspected periodically, and worn or broken parts must be replaced to keep the tool operating safely and efficiently. Also the items on the maintenance chart must be checked often.

Cold Weather Care

When temperatures are below freezing, tools should be kept warm by any convenient, safe method. If this is not possible, the following procedure should be used to warm up the tools.

❑ Tool operators working outdoors or in unheated areas in extremely cold temperatures should also: Use Paslode pneumatic oil with antifreeze in the lubricator, Part No. 219090 (8oz.).

Once a week, depending on the amount of tool use, take the tool apart and wash away any sludge with degreaser cleaner (Paslode Part No. 219086) to keep the tool operating efficiently.

❑ Ensure that all hardware is tight.
❑ Ensure that the work contacting element is installed correctly in relation to the trigger, and that both parts move freely.
❑ Ensure that the magazine is properly attached.
❑ Ensure that the required safety information on the tool is legible.
❑ Use only Paslode approved fasteners in the tool, and ensure that they are correct for the application.
❑ Ensure that a male air fitting is securely connected to the tool.
❑ Test the tool by driving fasteners into a workpiece identical to the tool’s application.
❑ Check the tool for air leaks during testing and for the proper sequence of operation.
❑ Ensure that all fasteners are driven to the same depth and that the crown of the fastener is flush with the workpiece.

Tool Lubrication

It is most important that the tool be properly lubricated by keeping the air line lubricator filled and correctly adjusted. Without proper lubrication the tool will not work properly and parts will wear prematurely.

Use the proper lubricant in the air line lubricator. The lubricator should be of low air flow or changing air flow type, and should be kept filled to the correct level. Use only Paslode recommended lubricants. Substitutes may harm the rubber compounds in the tools O-rings and other rubber parts. Paslode Part No. 403720 is a pneumatic lubricating oil specially made for pneumatic applications.

If a filter/regulator/lubricator is not installed on the air system, air operated tools should be lubricated at least once a day with 6 to 20 drops of oil, depending on the work environment, directly through the male fitting in the tool housing. Most minor problems can be resolved quickly and easily using the maintenance table that follows. If problems persist, contact your Paslode dealer for assistance.

Cleaning the air-operated tools with solvents removes the thin coating of grease applied to the cylinder wall and O-rings at the factory. To replace this coating of grease, use Chemplex grease (Paslode Part No. 403734).

❑ Open the drain on the air compressor tank to drain any moisture at least daily in extremely cold or humid weather. A few ounces of anti-freeze in the tank will keep the air free of frost.

Testing the Tool After Servicing

After replacing any part or parts, it is important to check the tool for proper operation. This ensures that the tool was put together correctly, is safe to use, and will perform the job properly.
## OPERATOR TROUBLESHOOTING

### CAUTION
Disconnect the tool when performing Repairs or clearing jams.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fasteners will not drive completely into wood.</td>
<td>Increase air pressure (do not exceed 110 psi).</td>
</tr>
<tr>
<td>Fasteners drive too deeply into wood.</td>
<td>Reduce air pressure.</td>
</tr>
<tr>
<td>Air leaks at cap when tool is connected to air.</td>
<td>Tighten cap screws.</td>
</tr>
<tr>
<td>Ref#</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>101</td>
<td>BOLT ASSY</td>
</tr>
<tr>
<td>102</td>
<td>CAP</td>
</tr>
<tr>
<td>103</td>
<td>O - RING</td>
</tr>
<tr>
<td>104</td>
<td>COLLAR</td>
</tr>
<tr>
<td>105</td>
<td>CYLINDER CAP SEAL</td>
</tr>
<tr>
<td>106</td>
<td>CYLINDER SPACER</td>
</tr>
<tr>
<td>107</td>
<td>O - RING</td>
</tr>
<tr>
<td>108</td>
<td>SEAL</td>
</tr>
<tr>
<td>109</td>
<td>CYLINDER</td>
</tr>
<tr>
<td>110</td>
<td>O - RING</td>
</tr>
<tr>
<td>111</td>
<td>O - RING</td>
</tr>
<tr>
<td>112</td>
<td>DRIVER UNIT</td>
</tr>
<tr>
<td>113</td>
<td>BUMPER</td>
</tr>
<tr>
<td>114</td>
<td>GUN BODY</td>
</tr>
<tr>
<td>115</td>
<td>AIR PLUG</td>
</tr>
<tr>
<td>116</td>
<td>WAVE WASHER</td>
</tr>
<tr>
<td>117</td>
<td>SPRING</td>
</tr>
<tr>
<td>118</td>
<td>ROD</td>
</tr>
<tr>
<td>119</td>
<td>MAGNET</td>
</tr>
<tr>
<td>120</td>
<td>DEEP IMPACT SOCKET</td>
</tr>
<tr>
<td>121</td>
<td>AIR PLUG CAP</td>
</tr>
</tbody>
</table>
All parts must be periodically inspected and replaced if worn or broken. Failure to do this can affect the tool’s operation and present a safety hazard.
ACCESSORIES
(not included with tool)

### Lubricants
- Lubricating Oil 16 oz.  Part No. 403720
- Lubricating Oil with Antifreeze 8 oz.  Part No. 219090
- Chemplex 710 Lubricant 1lb.  Part No. 403734

### Degreaser Cleaner
Ideal cleaner for all Paslode tools.  Part No. 219086

### Safety Glasses
- Clear  Part No. 402510
- Tinted  Part No. 402512

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