

BENCHMARKTM_{MC}

PNEUMATIC PALM NAILER



5 Year Limited Warranty



**READ ALL INSTRUCTIONS BEFORE FIRST USE.
KEEP THIS MANUAL FOR FUTURE REFERENCE.
KEEP AWAY FROM CHILDREN.**



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**

PRODUCT SPECIFICATIONS

PNEUMATIC PALM NAILER	
Nail length	3"-3 1/2" (50-90mm)
Nail size	3 1/2" (90mm)
Recommended operating pressure	70-100 psi (4.8-7 bar)
Air inlet	1/4" (6.4mm) 18 NPT
Average air consumption	0.2 CFM /cycle @ 90 psi
Weight	0.8 lbs. oz (0.37KG)

*Please note (where the 1/4" NPT connector is not already installed on the tool) your tool may be shipped with a black plastic cap installed in the air inlet. Pry the cap out prior to installing the 1/4" NPT connector.

NEED ASSISTANCE?

Call us on our toll- free customer support line:

1-866-349-8665 (Monday through Friday 9am – 5pm Eastern Standard Time)

- Technical questions
- Replacement parts
- Parts missing from package



Note these instructions pertain to the tool only. Please refer to your compressors operators manual and follow the manufacturers instructions.

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SAFETY GUIDELINES

WARNING:

This manual contains information that relates to PROTECTING PERSONAL SAFETY and PREVENTING EQUIPMENT PROBLEMS. It is very important to read this manual carefully and understand it thoroughly before using the product. The symbols listed below are used to indicate this information.

 **DANGER! Potential hazard that will result in serious injury or loss of life.**


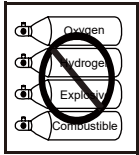


 **WARNING! Potential hazard that could result in serious injury or loss of life.**





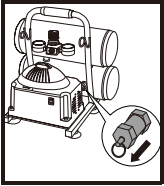
 **CAUTION! Potential hazard that may result in moderate injury or damage to equipment.**

Note - The word " Note " is used to inform the reader of something he / she needs to know about the tool.

PERSONAL SAFETY

These precautions are intended for the personal safety of the user and others working with the user. Please take time to read and understand them.

SYMBOL	MEANING
	<ul style="list-style-type: none"> • Do not use oxygen or any other combustible or bottled gas to power air-powered tools. Failure to observe this warning can cause explosion and serious personal injury or death. Use only the compressed air to power the air-powered tools. Use a minimum of 25' (7.6 m) of hose to connect the tool to the compressor. Failure to comply will result in serious injury or loss of life. 
	<ul style="list-style-type: none"> • Risk of electric shock: Do not expose a compressor to rain. Store it indoors. Disconnect the compressor from power source before servicing. Compressor must be grounded. Do not use grounding adaptors.
	<ul style="list-style-type: none"> • Risk of personal injury: Do not direct compressed air from the air hose towards the user or other personnel.

SYMBOL	MEANING
	<ul style="list-style-type: none"> • Risk of inhalation: Never directly inhale the air produced by the compressor.
	<ul style="list-style-type: none"> • Risk of bursting: Do not adjust the pressure switch or safety valve for any reason. They have been preset at the factory for this compressor's maximum pressure. Tampering with the pressure switch or the safety valve may cause personal injury or property damage.
	<ul style="list-style-type: none"> • Risk of burns. The pump and the manifold generate high temperatures. In order to avoid burns or other injuries, do not touch the pump, the manifold, or the transfer tube while the compressor is running. Allow the parts to cool down before handling or servicing. Keep children away from the compressor at all times.
	<ul style="list-style-type: none"> • Risk of bursting: Make sure the regulator is adjusted so that the compressor outlet pressure is set lower than the maximum operating pressure of the tool. Before starting the compressor, pull the ring on the safety valve to make sure the valve moves freely. Drain water from tank after each use. Do not weld or repair tank. Relieve all pressure in the hose before removing or attaching accessories. 



DANGER!

- Keep children away from the work area. Do not allow children to handle power tools.
- Do not use this tool in the presence of flammable liquids or gases. Sparks that are created during use may ignite gases.
- Keep air hose away from heat, oil, and sharp edges. Check air hose for wear before each use and ensure that all connections are proper.
- Always ensure that the workpiece is firmly secured leaving both hands free to control the tool.
- Always ensure that the tool has stopped before putting it down after use, for safety purposes and to prevent possible damage to the tool/user.
- Keep proper footing at all times in order to ensure correct balance.
- Always assume that the tool contains fasteners.
- Do not point the tool toward yourself or anyone else.



WARNING!

- Do not allow unskilled or untrained individuals to operate the air tool.
- Do not use the tool for any task other than that it is designed to perform.
- Locate the compressor in a well-ventilated area for cooling, and a minimum of 12" (31 cm) away from the nearest wall.
- Protect the air hose and the power cord from damage and puncture. Inspect them for weak or worn spots every week and replace them if necessary.
- Always wear hearing protection when using the air compressor. Failure to do so may result in hearing loss.
- Do not carry the compressor while it is running.
- Do not operate the compressor if it is not in a stable position.
- Do not operate the compressor on a rooftop or an elevated position that could allow the unit to fall or be tipped over.
- Always replace a damaged gauge before operating the unit again.
- Do not connect the tool to a compressed air source with a pressure output that is higher than 120psi.



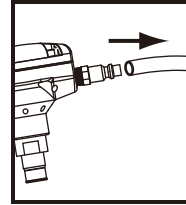
CAUTION!

- Always ensure that the tool has stopped before disconnecting the air supply.
- Do not wear watches, rings, bracelets, or loose clothing when using any air- powered tool.
- Do not overload the tool. Allow the tool to operate at its optimum speed for maximum efficiency.
- Do not use a tool that is leaking air, that has missing or damaged parts, or that requires repairs. Verify that all screws are securely tightened.
- For optimal safety and tool performance, inspect the tool before every usage, in order to ensure free movement of the trigger, safety mechanisms, and springs. Always keep your air tool clean and lubricated. Daily lubrication is essential to avoid internal corrosion and possible failures.
- Ensure the floor is not slippery and wear non-slip shoes. Floors should be kept clean and clear.
- Always follow all workshop safety rules, regulations, and conditions when using the tool and keep the work area clean.
- Carry the tool by the handle only, keeping fingers away from the trigger. Do not carry the tool by the hose, magazine, or any other parts.
- Do not use the tool near or below freezing point, as doing so may cause tool failure. Do not store the tool in a freezing environment to prevent ice formation on the tools operating valves, as doing so may cause tool failure.
- Handling and storage of oil: Use with adequate ventilation. Avoid contact of oil with eyes, skin, and clothing. Avoid breathing spray or mist. Store in a tightly closed container in a cool, dry, well-ventilated area free from Incompatible substances.
- Tripping hazard. The air hose may become a tripping hazard when it is placed in the work area. Use care when walking in the work area.



CAUTION!

- Disconnect tool from the air supply and turn off the compressor before performing any maintenance or changing accessories, when clearing a jammed fastener, when the tool is not in use, when it is being handed to another person, and when it is left unattended. Failure to comply may result in moderate injury or damage to equipment.



- Use safety goggles and ear protection: Wear safety glasses with side shields when operating the tool/compressor and verify that others in the work area are also wearing safety glasses. Safety glasses must conform to American National Standards Institute (ANSI Z87. 1) requirements and must provide protection from flying particles from the front and the sides.


















Air-powered tools are loud, and the sound can cause hearing damage.

Always wear ear protection to prevent hearing damage and loss. Failure to comply may result in moderate injury.

Note: Recycle unwanted materials rather than disposing of them as waste. Sort the tools, hoses, and packaging in specific categories and take to the local recycling centre or dispose of in an environmentally safe way.

SYMBOLS

⚠️ WARNING: Some of the following symbols may appear on the nailer. Study these symbols and learn their meaning. Proper interpretation of these symbols will allow for more efficient and safer operation of this tool.

V	Volts		Three-phase alternating current with neutral
A	Amperes		
Hz	Hertz		Direct current
W	Watts		No load speed
kW	Kilowatts		Alternating or direct current
μF	Microfarads		Class II construction
L	Litres		Splash-proof construction
kg	Kilograms		Watertight construction
H	Hours		Protective grounding at terminal, Class I tools
N/cm^2	Newtons per square centimetre		Revolutions or reciprocations per minute
Pa	Pascals		Diameter
Min	Minutes		Off position
S	Seconds		Directional arrow
~ or AC	Alternating current		Warning symbol
3 	Three-phase alternating current		Wear your safety glasses

TOOL SPECIFIC WARNINGS



DANGER Potential hazard that will result in serious injury or death.

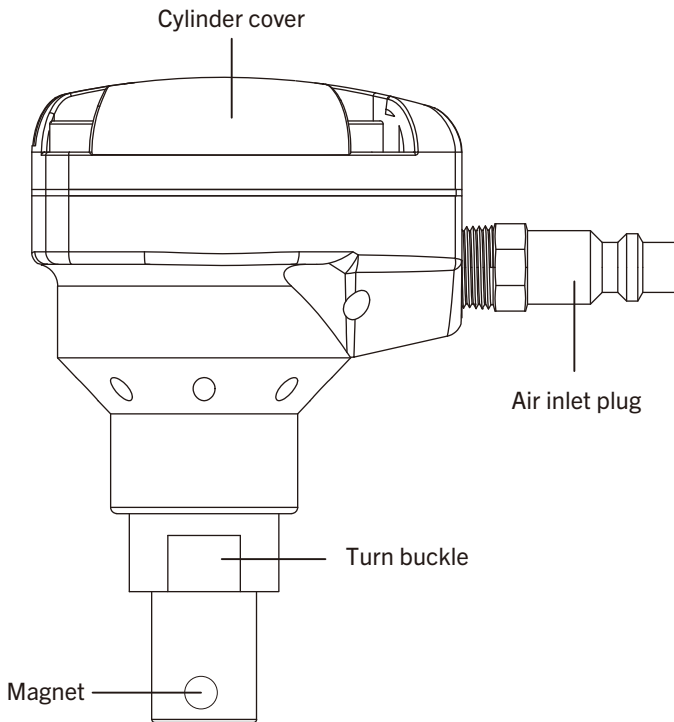
- Do not disconnect or reconnect the air hose with the tool pressed or with a fastener in the guide. The tool may fire when it is reconnected to the air supply.



WARNING Potential hazard that could result in serious injury or death.

- Keep hands and other parts of the body away from the nail guide during use. Keep hands and feet and all other parts of the body at least 8" (20cm) away from the firing head.
- Objects in the workpiece can cause serious injury if they cause the fasteners to be deflected or to be driven away from the point of entry.
- Do not drive fasteners on top of a fastener. The fastener may ricochet, causing serious personal injury.
- Do not drive fasteners on scaffoldings, ladders, or such similar construction.
- Use only fasteners of the proper size and gauge, as specified in this manual.
- Do not drive fasteners close to the edge of the workpiece. The workpiece may split which could allow the fastener to fly free or ricochet and cause serious personal injury.

**KNOW YOUR
PNEUMATIC PALM NAILER**



IMPORTANT INFORMATION

COMPATIBLE COMPRESSORS

GUIDELINES FOR PROPER USE AND OPERATION

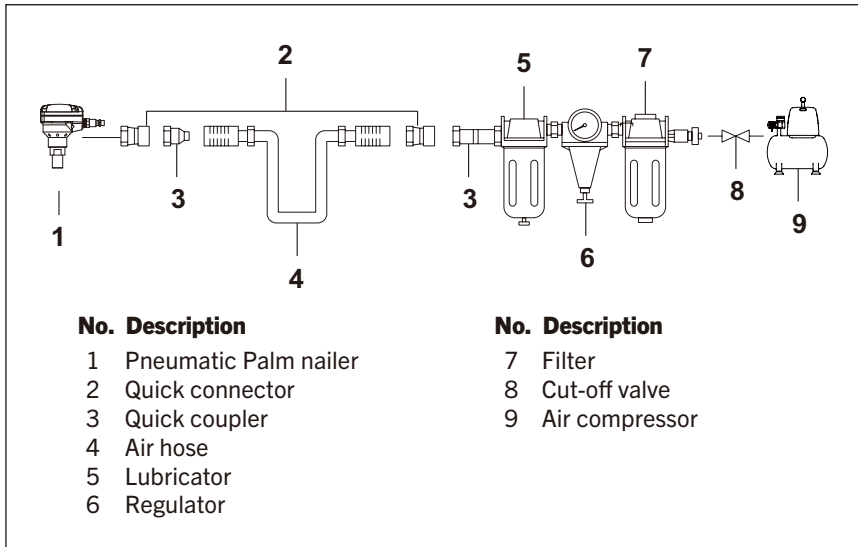
Be sure to use a proper air compressor with air-powered tools. The compressor should be able to supply a minimal air delivery of 4.0 SCFM @ 90 psi to ensure the compressor can run continuously with the Pneumatic Palm nailer.

Air Compressor Size & Power	1 1/2 – 2 HP	2 1/2 HP	3 HP and more
4 – 5 Gallons	Light-duty and intermittent use	Light-duty and intermittent use	Light-duty and intermittent use
6 – 11 Gallons	Light-duty and intermittent use	Heavy-duty and continuous use	Heavy-duty and continuous use
15+ Gallons	Medium-duty and intermittent use	Heavy-duty and continuous use	Heavy-duty and continuous use

Wood density	Nail size	Compressor air pressure
>0.6g/cm ³	<21/2" (63 mm) brad nails	90 psi
	≥21/2" (63 mm) brad nails	100 psi
≤0.6g/cm ³	<21/2" (63 mm) brad nails	80 psi
	≥21/2" (63 mm) brad nails	90 psi

Air system

- Always use clean, dry, regulated, compressed air at 70 to 100 psi (5 to 7 bar). Do not exceed the maximum or minimum pressures. Operating the tool at the wrong pressure (too low or too high) will cause excessive noise or rapid wear.



⚠️ WARNING! Potential hazard that could result in serious injury or loss of life.

- Keep hands and other parts of the body away from the tool's discharge and working areas when connecting the air supply. Failure to comply could lead to serious injury or loss of life.

Read this Instruction Manual carefully before using the Pneumatic Palm nailer

- Read and follow all the safety instructions at the beginning of this manual. Inspect the Pneumatic Palm nailer prior to each use in order to
 - ensure that the proper power source is being used.
 - verify that the tool is in proper working order.

⚠️ WARNING! Potential hazard that could result in serious injury or loss of life.

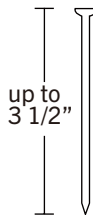
- Do not use the tool if it is not in proper working order.
- Do not use oxygen or any other combustibile or bottled gas to power this tool.
- Do not use this tool in the presence of any flammable liquids or gases.
- Keep hands and other parts of the body away from the firing head during use.
- Do not point the tool towards the operator or other people.
- Do not attempt to clear a jammed nail when the air hose is connected.
- Do not drive a nail on top of an existing nail. Failure to comply could lead to serious injury or loss of life.
- It is recommended that a filter-regulator-lubricator be used and be located as close to the tool as possible.
- If a filter-regulator-lubricator is not installed, place up to 6 drops of compressor oil into the air inlet plug before each use.

- If a filter-regulator-lubricator is installed, keep the air filter clean. A dirty filter will reduce the air pressure to the tool, which will cause a reduction in power, efficiency, and general performance.
- For optimal performance, install a quick connector to the tool and a quick coupler on the hose, if applicable.
- Verify that all of the connections in the air supply system are sealed in order to prevent air leakage.

This Pneumatic Palm nailer drives 90 mm (3 1/2").

ACCEPTABLE FASTENERS

Nails (14 gauge)



⚠ WARNING! Potential hazard that could result in serious injury or loss of life.

- The use of any other types of nails will cause the nailer to jam and could lead to serious injury or loss of life.

This nailer can be used with a variety of shank types (e.g., ring, smooth, spiral) and a variety of coatings or nail compositions (e.g., Electro, mechanical, hot-dipped galvanized or stainless steel, etc.).

OPERATING INSTRUCTIONS

This Pneumatic Palm nailer is an air-powered tool with a new and advanced design, compact structure, and superior technology which enables the tool to drive nails into the workpiece without a trigger. The tool is dexterous, safe, and reliable to operate. The tool is ideal for nailing at tight corners, toe-nailing, joist hanger installations, etc.

Loading nails



DANGER! Potential hazard that will result in serious injury or loss of life.

- Do not point the tool towards the operator or other people while changing the nails or after loading the nail.
 - Do not hold the tool with the nail guide pressed while changing nails. Failure to comply will lead to serious injury or loss of life.
1. Plug in compressor, turn it on, set the pressure regulator to 40 psi, attach one end of the air hose to the compressor and the other end of the air hose (1) to the tool (2) (fig A). ➔ page 7 (wood density chart)

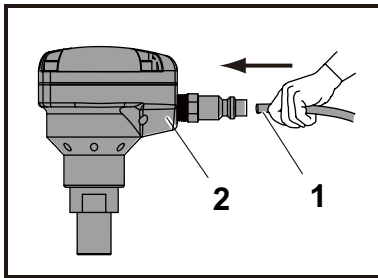


fig A

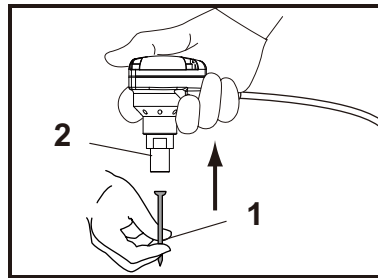


fig B

2. Grip the base of the tool in one hand. Hold a nail by the shaft (1), and place the flat head into the nail guide (2). The nail will be held in place by the magnet (fig B).
3. Place the pointed end of the nail (1) on the workpiece (2). Keep your free hand away from the tool and the nail (fig C).

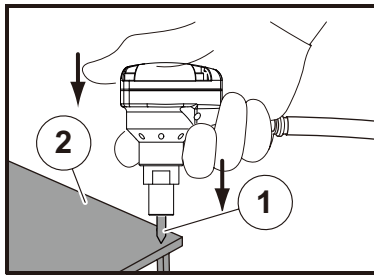


fig C

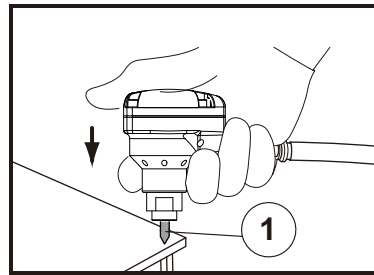


fig D

4. Press the tool straight down. This will trigger the tool and cause it to hammer the nail. Continue pressing down until the nail is driven all the way in (fig D).

⚠ CAUTION! Potential hazard that may result in moderate injury or damage to equipment.

- Add some drops of pneumatic tool oil into the air inlet for lubrication before use. Failure to comply may result in moderate injury or damage to equipment.

⚠ WARNING! Potential hazard that could result in serious injury or loss of life.

- Do not operate the tool if the nails are not loaded, as doing so may damage the tool.
- Load the correct type of nails only. Failure to comply could lead to serious injury or loss of life.

Cold weather operation

When operating any air-powered tool below freezing temperature. Do not use below 14°F(-10°C) freezing temperature.

- Verify the compressor tanks have properly drained prior to use.
- Keep tools as warm as possible using any safe, convenient method.
- Place up to 6 drops of pneumatic tool oil into the tool's air inlet.
- Adjust the air pressure to 80 psi or lower.
- Actuate the tool 5 to 6 times into a scrap wooden piece in order to lubricate the O-rings.
- Adjust the air pressure to the operating level (do not exceed 120 psi) and use the tool normally.
- Relubricate the tool, as described in the maintenance section.
- Drain the compressor tanks at least once per day.

Do not store tools in a cold weather environment to prevent frost or ice formation on the tools operating valves and mechanisms that could cause tool failure. Store in a dry place.

MAINTENANCE

Note: Do not store the tool anywhere temperatures will fall below freezing.

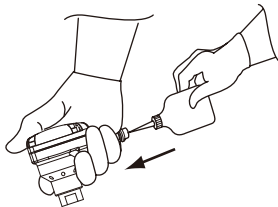


DANGER!

Disconnect the tool from the air compressor before maintenance/service, adjusting, cleaning jams, reloading, and when it is not in use. Repairs must be performed by a qualified service technician only. Failure to comply will lead to serious injury or loss of life.

MAINTENANCE REQUIRED	DESCRIPTION	TOOLS OR MATERIALS REQUIRED	MAXIMUM SERVICE INTERVAL		
			Each Use or every 2 Hrs.	Monthly	As Needed
General inspection – free movement	Trigger, spring, safety mechanism	None	X		
In-depth inspection	Worn or broken parts			X	X
Replace worn or broken parts					X
Lubrication	See below	Pneumatic tool oil	X		

- Lubrication: If the Pneumatic Palm nailer and the compressor are not equipped with an in-line lubrication system, place 2 to 6 drops of pneumatic tool oil into the air inlet before each work day or after every 2 hours of continuous use, depending on the characteristics of the workpiece and type of nails used.



- Air-operated tools must be inspected periodically and worn or broken parts must be replaced in order to keep tools operating safely and efficiently.
- Inspect and replace worn or damaged O-rings, seals, etc. Tighten all screws and caps frequently in order to help prevent personal injury.
- Inspect the spring and safety mechanism for free movement on a regular basis in order to ensure that the safety system is fully functional. Verify that no parts are loose or missing and no parts are sticking or jammed.
- Keep the nail guide clean and free of any dirt or abrasive particles.

TROUBLESHOOTING

⚠ DANGER! If any of the following symptoms appear while the tool is in use, turn it off and disconnect it from the air supply immediately. Failure to comply will lead to serious injury or loss of life.

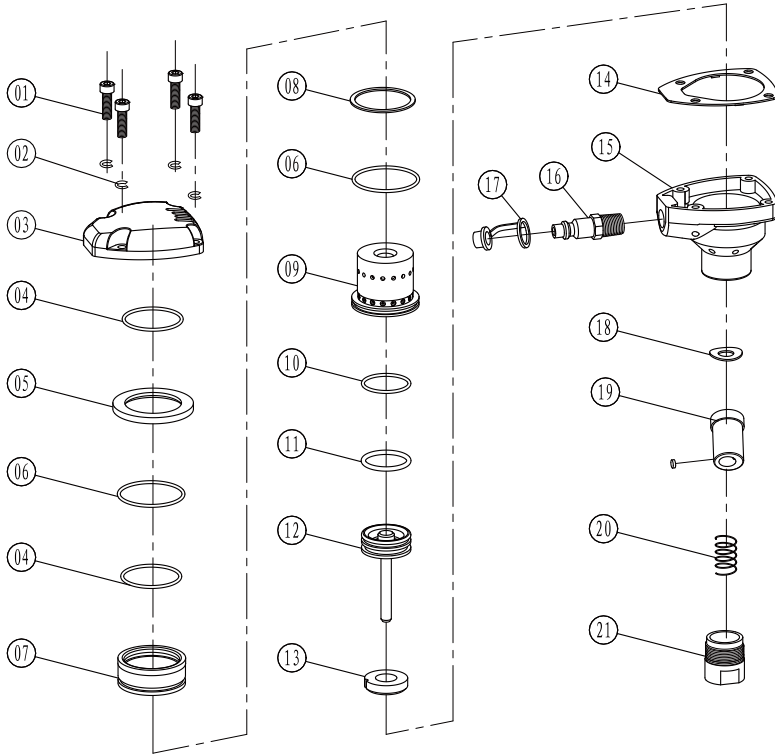
Disconnect the tool from the air supply before making any adjustments.

Repairs must be performed by a qualified service technician only.

When replacing O-rings or cylinder, lubricate the tool with pneumatic tool oil before assembly.

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Air leakage.	<ol style="list-style-type: none"> 1. O-rings are worn or damaged. 2. Screws are loose. 	<ol style="list-style-type: none"> 1. Inspect and replace the O-rings. 2. Tighten the screws.
Attack strength is not enough.	<ol style="list-style-type: none"> 1. Air pressure is not in specified range. 2. The O-ring beside slip set is worn. 	<ol style="list-style-type: none"> 1. Adjust the air pressure to specified range. 2. Replace the O-ring.
The tool does not drive out the nails when connected to air supply.	<ol style="list-style-type: none"> 1. Insufficient air supply. 2. O-rings are worn or damaged. 	<ol style="list-style-type: none"> 1. Adjust the air pressure. 2. Inspect and replace the O-rings.

EXPLODED VIEW



PARTS LIST



WARNING: When servicing, use only original equipment replacement parts. The use of any other parts may create a safety hazard or cause damage to the tool. Any attempt to repair or replace electrical parts on this tool may create a safety hazard unless repairs are performed by a qualified technician. For more information, call the Toll-free Helpline, at 1-866-349-8665.

Always order by part number.

Key #	Part #	Part Name	Quantity
1	03.04.05.032	Bolt M5x20	4
2	03.04.05.263-03	Spring washer 5	4
3	03.04.28.041-02	Cylinder cover	1
4	03.04.01.133	O-ring 33.6x1.8	2
5	03.04.06.134	Cylinder washer	1
6	03.04.01.143	O-ring 37.5x1.8	2
7	03.04.29.197	Slip set	1
8	03.04.25.063	Sealing washer	1
9	03.04.27.132	Cylinder	1
10	03.04.01.114	O-ring 26.5x1.8	1
11	03.04.01.291	O-ring 25x2.4	1
12	03.04.39.01.210	Piston	1
13	03.04.06.058	Bumper	1
14	03.04.07.031	Washer	1
15	03.04.26.054	Gun body	1
16	03.04.40.169	Plug	1
17	03.04.29.162	Plug cover	1
18	03.04.19.168	Elasticity washer	1
19	03.04.29.196	Fix set	1
20	03.04.34.080	Spring	1
21	03.04.29.195	Screw cover	1

WARRANTY

BENCHMARK WARRANTY

If this Benchmark tool fails due to a defect in material or workmanship within five years from the date of purchase, return it to any Home Hardware store with the original bill of sale for exchange. 3-year warranty for the battery and charger. This warranty does not include expendable parts including but not limited to blades, brushes, belts, light bulbs. This warranty covers defects in material or workmanship only. It does not cover normal wear and tear, failure due to abuse/misuse, or defects caused by careless or accidental mishandling. If this Benchmark product is used for commercial or rental purposes, this warranty does not apply.

PNEUMATIC PALM NAILER



*5 year limited warranty on tool

BENCHMARKTM_{MC}

BENCHMARK TOOLS CANADA

ST. JACOBS, ONTARIO N0B 2N0

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CUSTOMER SERVICE/TECH SUPPORT

1-866-349-8665

1282 208

Made in China



*This BenchmarkTM product carries a five (5) year LIMITED warranty against defects in workmanship and materials. The charger and batteries carry a three (3) year LIMITED warranty. See Owner's Manual for full details.

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