



# AIR PALM NAILER USER'S MANUAL



Read carefully and understand **RULES FOR SAFE OPERATION** and instructions before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

ITEM#112020

For technical questions and replacement parts, please call **1-800-222-5381**.

Thank you very much for choosing a NORTHERN TOOL + EQUIPMENT CO., INC. Product! For future reference, please complete the owner's record below:

**Model:** \_\_\_\_\_ **Purchase Date:** \_\_\_\_\_

Save the receipt, warranty and these instructions. It is important that you read the entire manual to become familiar with this product before you begin using it.

This machine is designed for certain applications only. Northern Tool + Equipment strongly recommends that this machine is not modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the machine until you have first contacted Northern Tool + Equipment to determine if it can or should be performed on the product.

Before using this product, please read the following instructions carefully.

## DESCRIPTION & INTENDED USE

The Northern Industrial Air Palm Sander features an advanced design with a compact structure, superior technology and substantial attack strength. This model is safe and reliable to operate while driving nails into the workpieces without a trigger. Ideal for nailing in tight corners, toe-nailing, joist hanger installations and more.

## TECHNICAL SPECIFICATIONS

Item	Description
Capacity	1 Piece
Nail length	Up to 4-3/4 Inches
Nail diameter	5d to 70d
Operation pressure	70-100 PSI
Air inlet	1/4" NPT
Dimension	4" x 3" x 5"
Weight	2 lbs.

## GENERAL SAFETY RULES

 **WARNING:** Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

 **WARNING:** The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

## SAVE THESE INSTRUCTIONS

### WORK AREA

- **Keep work area clean and well lit.** Cluttered and dark work areas can cause accidents.
- **Do not use your pneumatic tool where there is a risk of causing a fire or an explosion; e.g., in the presence of flammable liquids, gasses, or dust.** Pneumatic tools can create sparks, which may ignite the dust or fumes.
- **Keep children and bystanders away while operating a pneumatic tool.** Distractions can cause you to lose control, so visitors should remain at a safe distance from the work area.

## PERSONAL SAFETY

- **Stay alert, watch what you are doing and use common sense when operating a pneumatic tool. Do not use a pneumatic tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating pneumatic tools may result in serious personal injury.
- **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts. Air vents often cover moving parts and should be avoided.
- **Always use the appropriate eye and ear protection and other safety equipment.** Safety equipment such as dust mask, non-skid safety shoes, and a hardhat used for appropriate conditions will reduce personal injuries.
- **Avoid accidental starting. Disconnect tool from air supply when not in use, and when carrying tool to another work area.**
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the pneumatic tool in unexpected situations.

## TOOL USE AND CARE

- **Never use bottled gas, such as oxygen or any other combustible gases, as a pneumatic source for this tool.** Danger of explosion and serious personal injury may result.
- **Do not connect pneumatic tool to compressed air in which the pressure exceeds 120 PSI.**
- **Use air hoses rated for safe operation of the tool.** Air hoses rated for a maximum of 150 PSI or greater must be used with this tool.
- **Do not force the pneumatic tool and use the tool only for its intended use. Do not discharge fasteners into open air, concrete, stone, hardwoods, knots or any material too hard for the fastener to penetrate. Do not use the body of the tool or top cap as a hammer.** Discharged fasteners may cause injury.
- **Do not drive fasteners near edge of material.** The workpiece may split causing the fastener to ricochet. Be aware the nail may follow the grain of the wood, causing it to protrude unexpectedly from the side of the work material.
- **Do not drive nails blindly into walls, floors, or other work areas.** Fasteners driven into live electrical wires, plumbing, or other types of obstructions can result in injury.
- **Be aware that nails can be driven completely through thin or very soft work material.** Make sure the pressure in the compressor is such that nails are set into the material and not pushed completely through.
- **Do not drive nails onto the heads of other fasteners.** Strong recoil, jammed fasteners, or ricocheted nails may result.
- **Disconnect pneumatic tool from the air supply before making any adjustments, performing maintenance, clearing jammed fasteners, or storing.**
- **Secure work with clamps or a vise in order to keep hands and body out of potential harm.** Be sure the workpiece is properly secure before pressing the tool against the material.
- **Keep face and body parts away from back of the tool cap when working in restricted areas.** Sudden recoil can result in impact to the body, especially when nailing into hard or dense material.
- **Store idle pneumatic tools out of the reach of children and do not allow persons unfamiliar with the pneumatic tool or these instructions to operate the pneumatic tool.** Pneumatic tools are dangerous in the hands of untrained users.
- **Maintain pneumatic tools. Before each use check for misalignment or binding of moving parts, breakage of parts, damaged air hose and any other condition that may affect the pneumatic tools operation. If damaged, have the tool repaired before use.** Many accidents are caused by poorly maintained pneumatic tools.
- **Keep handle dry, clean, and free from oil and grease.**
- **Make sure the hose is free of obstructions or snags.** Entangled hoses can cause loss of balance or footing.

## OPERATING INSTRUCTION

1. Make sure the tool is disconnected from the air hose.
2. Wear appropriate eye, ear and other safety equipment.
3. Place 5-7 drops of lubrication into the air inlet before use and clean the pneumatic tool after each use.
4. Check for smooth and proper operation of the nose piece. Do not use the tool if the nose assembly is not functioning or is restrained.
5. Keep tool pointed away from yourself and others.
6. Connect air hose using only clean, dry, regulated compressed air at 70-100 PSI.
7. Check for audible leaks around valves and gaskets. Never use a tool that leaks or has damaged parts.
8. Keep tool pointed in a safe direction when loading nails. Hold the nail in the same manner as if you were using a common hammer. With the other hand place the tool in a straight line with the direction in which you intend to drive the nail.
9. Place the fix set (#21) around the nail head, and gently push the tool until the nail head comes into contact with the rampin (#13) and is steady.
10. Remove the hand that is holding the nail, and continue pushing the tool to drive the fastener into place.

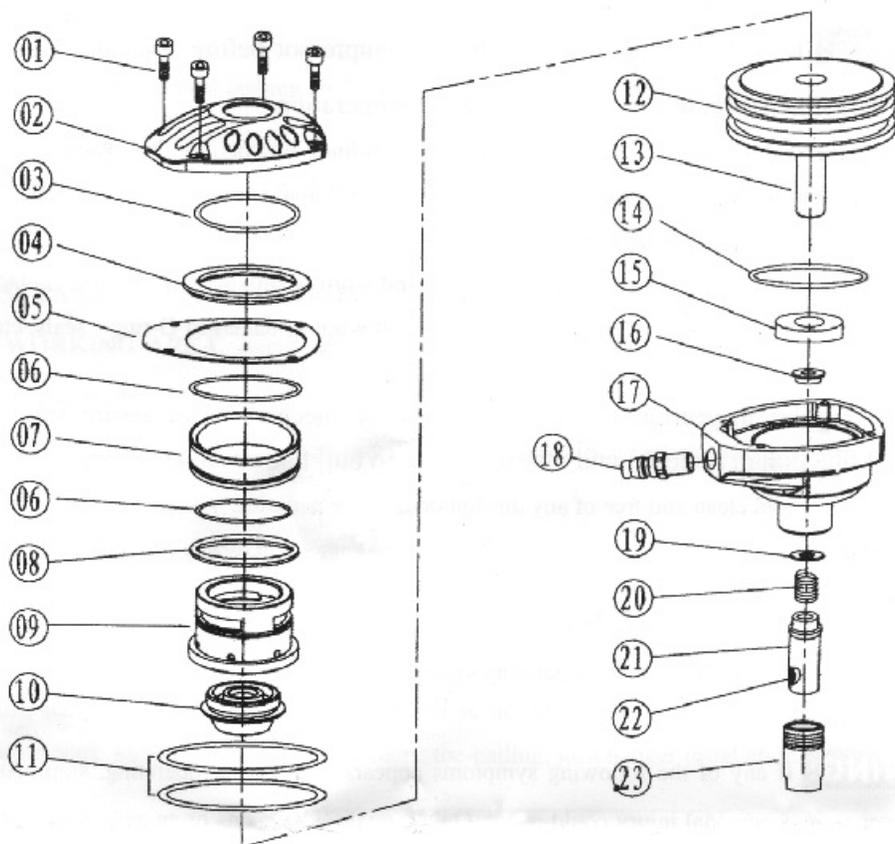
## TROUBLE SHOOTING

Symptom	Problems	Solution
Air Leaking	Worn O-ring or loose screw	Replace O-ring or tighten screw.
Attack strength not enough	Air pressure is not in specified range. The O-ring beside slip set is worn.	Adjust air pressure to the specified range. Replace O-ring.
No nail fires when connected air pressure	Insufficient air supply. Worn O-ring.	Adjust air pressure. Check and replace O-ring.

## INSPECTION, MAINTENANCE AND CLEANING

- Always disconnect the pneumatic tool from its compressed air supply before performing any inspection, maintenance, adjustments or cleaning.
- Place 5-7 drops of pneumatic tool oil into the air inlet before each work day or after 2 hours of continuous use.
- Clean daily with a clean cloth to remove all dirt, oil and grease from the pneumatic tool. If necessary, you may use a mild detergent. Do not use solvents, as damage to the pneumatic tool may occur. Do not immerse the pneumatic tool in any liquids.

## PARTS DIAGRAM



No.	Description	No.	Description	No.	Description
1	Bolt M5x20	9	Cylinder	17	Gun Body
2	Cylinder Cover	10	Cylinder Cover	18	Air Inlet Plug
3	O-ring 53.5x2.6	11	O-ring 43x2.65	19	Washer
4	Washer	12	Piston	20	Spring
5	Sealing Washer	13	Ram Pin	21	Fix Set
6	O-ring	14	O-ring 61.4x2.6	22	Magnet
7	Slip Set	15	Bumper	23	Bolt
8	Sealing Ring	16	Axle sleeve		



## **WARNING**

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints
- Crystalline silica from bricks and cement and other masonry products, and arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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