

RANDOM ORBITAL SANDER

Stock Number M548

OWNER'S MANUAL

SPECIFICATIONS:

Pad Diameter (IN.).....	5
Air pressure (P.S.I.)	90
Average air consumption (C.F.M.).....	6
Free speed (R.P.M.)	10,000
Air inlet (N.P.T.).....	1/4
Hose size (I.D.).....	3/8 in.
Weight (LBS)	2.42

Specifications are subject to change without notice.



Performance Tool®

1 YEAR LIMITED WARRANTY

PERFORMANCE TOOL® extends only the following warranties, and only to original retail purchasers. These warranties give specific legal rights. Except where prohibited by local law, the law of the State of Washington governs all warranties and all exclusions and limitations of warranties and remedies. There may be other rights which vary from state to state.

PERFORMANCE TOOL® warrants the product to be free from defects in materials and workmanship under normal use and service. A defective product may be returned for a free replacement within 90 days from the date of purchase, provided that product is returned to place of purchase immediately after discovery of defect. After 90 days and up to one year from date of purchase, PERFORMANCE TOOL® will replace at no charge any parts which our examination shall disclose to be defective and under warranty. These warranties shall be valid only when a sales receipt showing the date of purchase accompanies the defective product or defective part(s) being returned. For part(s) after 90 days, please remit your request, postage prepaid to:

PERFORMANCE TOOL, P.O. Box 88259 Tukwila, WA 98138

These warranties exclude blades, bits, punches, dies, bulbs, fuses, hoses, and other consumables which must be replaced under normal use and service. These warranties shall not apply to any product or part which is used for a purpose for which it is not designed, or which has been repaired or altered in any way so as to affect adversely its performance or reliability, nor shall these warranties apply to any product or part which has been subject to misuse, neglect, accident or wear and tear incident to normal use and service.

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WARNING!

READ, UNDERSTAND AND FOLLOW ALL INSTRUCTIONS AND WARNINGS BEFORE OPERATING THIS TOOL. FAILURE TO DO SO MAY RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE AND WILL VOID WARRANTY.

Some dust created by power sanding contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. An example of this type of chemical is lead from lead based paints. Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure: work in a well ventilated area and work with approved safety equipment, such as dusk masks that are specially designed to filter out microscopic particles.

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Performance Tool

IMPORTANT SAFETY INFORMATION

WARNING!

READ, UNDERSTAND AND FOLLOW ALL INSTRUCTIONS AND WARNINGS BEFORE OPERATING THIS TOOL. FAILURE TO DO SO MAY RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE AND WILL VOID WARRANTY.

1. Keep work area clean. Cluttered areas invite injuries.
2. Observe work area conditions. Do not use machines or power tools in damp or wet locations. Don't expose to rain. Keep work area well lighted. Do not use electrically powered tools in the presence of flammable gases or liquids. Do not bring combustible materials near the tools.
3. As with any tool, use common sense when operating. Do not wear loose clothing or jewelry that could become caught by moving parts, causing injury. Operate tool a safe distance from yourself and others in the work area.
4. Keep children away. Children must never be allowed in the work area. Do not let them handle machines, tools, hoses or extension cords.
5. Store idle equipment. When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children and other untrained persons. Switch off all unused electrical tools when stored. Tools are dangerous in the hands of untrained users.
6. Always wear approved eye protection when using tools. If raising dust, wear a suitable mask.
7. Work Safe. When wearing gloves to operate the tool, make sure that the gloves do not interfere with operating the Trigger. Test your gloves with the Trigger before attaching the unit to an air source. Keep your finger away from the Trigger until you are ready to work. Never start the tool unless you have a firm grip with both hands and you are positioned at your work piece or area. Before using the tool, know what is directly underneath the work area or work piece. The tool can quickly penetrate material. If working directly on the ground, make sure you are not directly above shallow cables, lines, or pipes. Keep your limbs and body clear of the tool. If an accessory or attachment breaks off, the tool tends to surge forward suddenly. Operate tool a safe distance from yourself and others in the work area. Make sure the immediate area is clear of other people or animals. Spectators must stay at a safe distance. Never point the tool or the air hose (not included) at anyone. Keep proper footing and balance at all times. Do not reach over or across running machines, hoses, etc.
8. Do not operate any tool if under the influence of alcohol or drugs. Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate any tool.
9. Be sure air is in OFF position when connecting tool to air supply.
10. Use only those accessories that are designed for use with tools. For example, with impact wrenches do not use ordinary sockets. Use impact sockets for all air tools.
11. Be sure to disconnect tool from air supply before changing accessories, performing service on tool and when not in use.
12. Follow air source manufacturers' directions for connection of regulators, filters, and other accessories to air source. Do not install quick couplers directly on tool as they put unnecessary strain on the air inlet threads possibly causing them to wear out prematurely. Instead, install them on a short length of air hose attached to the tool.

IMPORTANT SAFETY INFORMATION

13. Check for damaged parts. Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician.
14. Maintenance. For your safety, maintenance should be performed regularly by a qualified technician using original PERFORMANCE TOOLS® replacement parts. Failure to do so can lead to accidents for the operator. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Performance Tool®. Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may become hazardous when used on another tool.

WARNING: Repetitive motions or exposure to vibration may be harmful to your hands and arms.

WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov.

ADVERTENCIA: Cáncer y daños en órganos reproductivos – www.P65Warnings.ca.gov.

WARNING: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may 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. Read and understand all of the instructions provided in the instruction manual of this product, as well as, any other tool (s) used with this product.

ASSEMBLY / INSTALLATION

1. You will need to prepare the 1/4" Quick-disconnect Coupler Plug to connect to the air inlet on the sander. Wrap the Coupler Plug with pipe thread seal tape before threading it into the Air Inlet. Connect the a Quick-Disconnect coupler on a 3/8" ID Air Source Hose to the tool.

Note: If you are not using an automatic oiler system, before operation, add a few drops of Pneumatic Tool Oil to the airline connection. Add a few drops more after each hour of continual use.

2. Set the air pressure on your compressor to 90 PSI. Do not exceed the recommended air pressure of 90 PSI.
3. Check the air connection for leaks. Once you are satisfied there are no leaks, turn off the air compressor and disconnect the tool.

AIR SOURCE

Clear air of correct air pressure is recommended for the power supply for this tool. A maximum of 90 PSI at the tool is recommended for most air tools of this class. Check specifications section for recommended pressure. (Depending on length of air hose and other circumstances, air pressure at compressor may need to be increased to 100 PSI to ensure 90 PSI at the tool.)

Water in the air hose and compressor tank contributes to reduced performance and damage of the air tool. Drain the air tank and filters before each use and as necessary to keep the air supply dry.

Hose length over 25' causes loss in line pressure. Increase hose I.D. or increase compressor pressure to compensate for the pressure loss. Use an in-line pressure regulator with gauge if air inlet pressure is critical.

INSTALLING THE SANDING PAD

1. Disconnect the air hose from the tool.
2. Select the appropriate Sanding Pad (not included), and press it onto the Backing Pad. Firmly press the Sanding Pad onto the Backing Pad, making certain it is securely in place. Failure to properly secure the Sanding Pad may cause the Sanding Pad to come loose, possibly causing personal injury or property damage.

INSTALLING THE BACKING PAD

1. Disconnect tool from air supply.
2. Slide Wrench under Cover and onto the Arbor. Holding the wrench firmly, rotate Arbor counterclockwise to remove.
3. To replace the Backing Pad, place wrench onto Arbor and hold firmly.
4. Place Backing Pad onto Arbor and turn clockwise to attach. Hand tighten firmly.

OPERATION

1. Turn the air compressor (not included) on and allow the air tank to come up to pressure. Set the compressor output regulator to no more than 90 PSI.
2. Attach the air supply hose (not included) to the tool.
3. Grip the base of the tool in one hand. The Trigger will be under your palm. Squeeze the tool to depress the Trigger and the tool will operate.
4. Place the tool on the work surface to begin sanding.
5. To stop sanding, lift the tool from the work surface, and relax your grip to allow the Trigger to lift into the OFF position.
6. When you finish working, disconnect the air pressure hose from the tool and turn off the air compressor.



WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contain 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 or other masonry products
- 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.

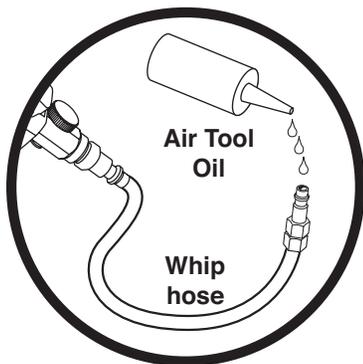
INSPECTION, MAINTENANCE & CLEANING

1. Make sure your Palm Grip Sander is disconnected from the air hose before attempting any maintenance.
2. Wipe the Palm Grip Sander down with a lint free cloth after each use.
3. If you do not use an inline oiler/filter system, lubricate the tool daily by holding it so that the Valve is facing up.
4. Squeeze the Trigger, and place one or two drops of oil into the Valve, allowing oil to circulate in the motor.
5. Store in a safe and dry location out of the reach of children.

LUBRICATION & MAINTENANCE

Oil tool before each use. 4 to 5 drops of a good grade Air Tool Oil placed in the air inlet is sufficient. Use proper air pressure and CFM rating listed for this tool.

Drain water from hoses and compressor tank. Water in the air supply line will cause gumming and loss of power. Clean the air filter on the supply line and flush the tool with gum solvent or a 50/50 mix of air tool oil and kerosene. It may be necessary to disassemble the tool to properly clean and re-lubricate.



Yes



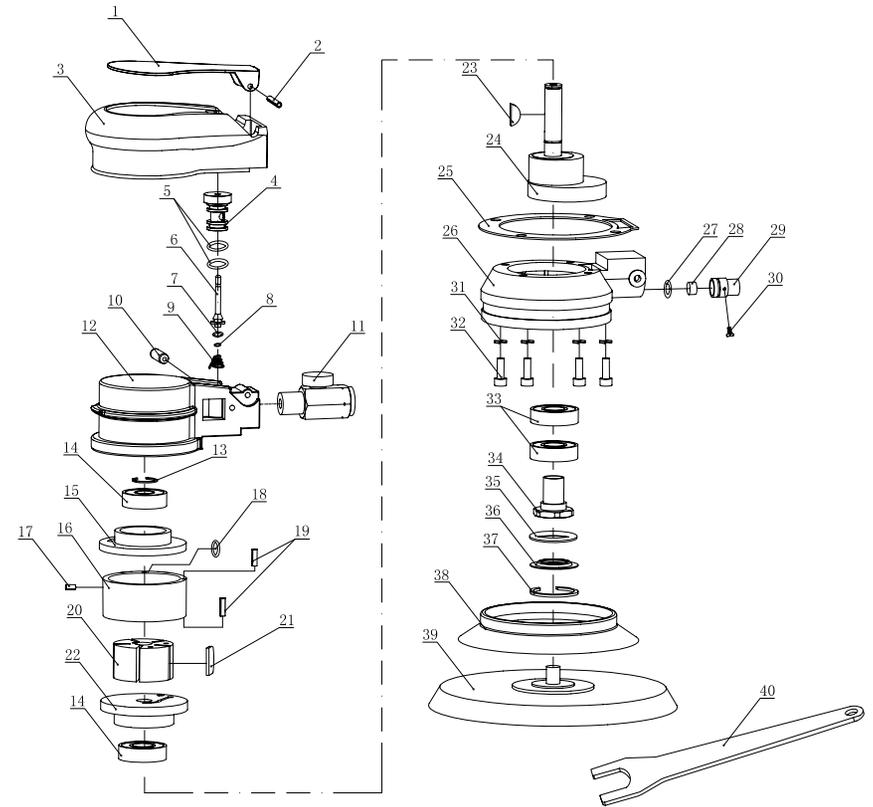
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TROUBLESHOOTING

INSUFFICIENT POWER:

Probable Cause	Solution
Dirty or clogged air passages.....	Flush and lubricate tool, drain air tank and supply line
Insufficient air supply.....	Increase line pressure, Make sure compressor matches tool's air pressure and consumption needs
Air leakage.....	Use PTFE tape at all fittings and joints. Check tool for worn or damaged O-rings & seals.
Worn/damaged wear & tear parts...	Replace as necessary.
Tool matching	Be sure you are using a tool suited for the torque requirements of the job at hand.

PARTS LIST



Ram Assembly Parts List

#	Description	Qty.	#	Description	Qty.	#	Description	Qty.
1	Trigger	1	15	End Plate	1	29	Muffler Cover	1
2	Pin	1	16	Cylinder	1	30	Screw	1
3	Grip	1	17	Pin	1	31	Spring Washer	4
4	Valve	1	18	O-Ring	1	32	Screw	4
5	O-Ring	2	19	Pin	2	33	Ball Bearing	2
6	Valve Stem	1	20	Rotor	1	34	Arbor	1
7	O-Ring	1	21	Rotor Blade	5	35	Washer	1
8	O-Ring	1	22	Front Plate	1	36	Bearing Washer	1
9	Spring	1	23	Half Round Key	1	37	C-Ring	1
10	Pin	1	24	Eccentric Gear	1	38	Cover	1
11	Air Regulator	1	25	Gasket	1	39	5 in. Sanding Pad	1
12	Body	1	26	Housing	1	40	Wrench	1
13	Retaining Ring	1	27	O-Ring	1			
14	Ball Bearing	2	28	Muffler Washer	1			