

OPERATING INSTRUCTIONS AND PARTS MANUAL

4" WET AIR SANDER/POLISHER (Model AT-720W)

Congratulations on your purchase of our air-powered tools.

To gain the best tool performance, please read this instruction manual carefully and thoroughly before operating the tool.

WARRANTY AND SERVICE

We (the manufacturers) warrant all products we sell to be free from defects in materials and workmanship for a period of 360 days from the original purchase date. This warranty does not apply to effects due directly or indirectly to abuse, misuse, negligence, normal wear and tear down or improper maintenance, nor shall it apply to any product that has been repaired or altered outside of our facilities. Should any product fail to provide satisfactory service, call your distributor for return authorization but to be accompanied with proof of purchase and an explanation for the return.

We make no other warranty, expressed and/or implied. We shall in no event be liable for death, injuries to persons or property, or for incidental, consequential, indirect or special damages of any nature arising from the sale or use of the products, excepting only the cost or expense of repair and replacement as described above. This warranty gives the customer specific legal rights. Other legal rights may vary from state to state.

WHO IS COVERED?

This warranty covers only the initial purchaser of the product.

HOW TO GET SERVICE

The product or part must be returned to the distributor or sales agent for examination. You must provide proof of initial purchase date and an explanation of the complaint must accompany the merchandise. If our inspection discloses a defect, we will repair or replace the product, or refund the purchase price, at our option. We will return the repaired product or replacement at our expense unless it is determined by us that there is no defect, or that the defect resulted from causes not within the scope of our warranty in which case we will, at your direction, dispose of or return the product. In the event you choose to have the product returned, you will be responsible for the shipping and handling costs for the return.

GENERAL SAFETY RULES

! WARNING

- * Improper operation or maintenance of this tool could result in personal injury and/or property damage. Read and understand all warnings and operation instructions before using this tool.
- * When using this tool, these basic safety precautions should always be followed to reduce the risk of personal injury and/or property damage.

WORKPLACE CONDITIONS

1. Always work in a clean, dry, well-ventilated area free of combustible materials. Never operate the tool near flammable substances such as gasoline, naphtha, cleaning solvent, etc.
2. Dress properly. Do not wear loose clothing. Tie up or cover long hair, remove any jewelry, necklaces, etc., which might become caught by the tool.
3. Keep the work area well lit and free of clutter. Slips, trips and falls are major causes of workplace injury. Be aware of excess air hose left on your walking way or on the working surface.
4. Ensure that there are no electrical cables, gas pipes, etc., which can cause a hazard if damaged by use of the tool.
5. Keep visitors a safe distance from the work area. Keep children away.

USE OF AIR TOOLS

1. Stay alert and use common sense. Watch what you are doing. Do not operate the tool when you are tired or under the influence of alcohol, drugs or medication.
2. Do not overreach. Keep proper footing and balance at all times.
3. Always wear eye protectors which provides protection from flying particles from the front and side when using the tool. Ear protectors should also be worn.
4. Never use oxygen, carbon dioxide, combustible gases or any other type of bottled gases as a power source for this tool.
5. Always verify prior to using this tool that the air source has been adjusted to the rated air pressure range. Never connect to an air source that is capable of exceeding 200psi.
6. Do not connect the air supply hose to the tool with your finger on the trigger.
7. Do not exceed the maximum working pressure 90psi/6.3bar for the tool. Excessive pressure will reduce the tool life and/or might cause a hazardous situation.
8. Never leave the operating tool unattended. Disconnect the air hose and water hose when the tool is not in use.
9. Keep the air supply hose away from heat, oil and sharp edges.
10. Check the air supply hose and water hose for wear and/or leaks before each use. Make sure that all connections are tight and secure.
11. Do not use the tool for any other than its intended use.
12. Do not carry out any alternations and/or modifications to the tool.
13. Always disconnect the tool from air supply before replacing any accessories, performing any repair and maintenance, moving to another work area, or passing the tool to another person.
14. Never use the tool if it is defective, damaged, or operating abnormally.
15. Check for misalignment or binding of moving parts, breakage of parts and any other condition that affects the tool operation. If damaged, have the tool serviced before using.
16. Keep working parts of the tool away from hands and body.
17. Do not carry the tool by the air hose and/or water hose.
18. Do not apply excessive force of any kind to the tool. Let the tool perform the work at the rate as it was designed.
19. Do not remove any labels on the tool. Replace if they become obscured or damaged.
20. Always maintain the tool with care. Keep it clean for the best and safest performance.

21. It is not recommended that quick change couplings should be located directly at the air inlet, as they add weight and could fail due to vibration.
22. This tool vibrates with use. Continuous operation of this tool might be harmful to your hands or arms. Stop using the tool if discomfort, a tingling feeling or pain occurs. Resume work after recovery. Seek medical advice if a serious symptom occurs.

WET AIR SANDER/POLISHER SAFETY INSTRUCTIONS

1. Always use the sander/polisher in the manner and for the functions described in this manual.
2. Inspect the backing pad before each use. Never use a cracked or broken backing pad.
3. Always use qualified backing pad and wet diamond sanding disc. Maintain this tool in accordance with these instructions and keep well lubricated (where appropriate).
4. Avoid contact with the moving backing pad. Wear suitable gloves to protect your hands.
5. Do not put additional pressure on the sander/polisher, which would only slow down the speed of the backing pad, reducing work efficiency and placing an additional burden on the tool motor. Let the tool do the work.
6. Do not run the tool on the workpiece unless a wet 4" diamond sanding disc is applied to the backing pad.
7. Always wear a face mask when operating the sander/polisher as protection from airborne/waterborne particles from the sanding material.
8. Never carry the sander/polisher by the air supply hose.
9. Always disconnect the tool from the air supply when replacing backing pad and/or diamond sanding disc, or when the sander/polisher is not required for immediate use in order to avoid accidental start.
10. Always ensure that the sander/polisher has come to a complete stop before putting it down after use.
11. Do not discard the safety instructions, give them to the operator.
12. Always store this product in a dry and safe place out of reach of children or untrained operators.

AIR SUPPLY

Please refer to the typical air system layout recommended below.

! Warning

Compressed air can be dangerous. Ensure that you are familiar with all precautions relating to the use of compressors and compressed air supply.

1. Use only clean, dry, regulated compressed air as the power source.
3. Make sure that the air compressor being used for the tool operation supplies the correct output (CFM).
4. Have the tool in "off" position when connecting the tool to the air supply.
5. Use normal 90psi working pressure for the tool. High pressure and unclean air will shorten the tool life due to the faster wear and also may create a safety hazard.
6. Drain water from the air compressor tank daily, as well as any condensation in the air lines. Water in the air line may enter the tool and cause damage to the tool mechanisms at operation.
7. Clean the tool air inlet screen filter for blockage weekly. Clean if necessary.

8. Usually a 3/8" (inner diameter) air hose is recommended for air supply and airflow to get the optimum performance of tool.
9. A long air hose (usually over 8 meters) may cause up to 15psi drop in pressure, so you need to set the output pressure of the air compressor higher to maintain the required working pressure at the tool.
10. Use proper hoses and fittings. We do not suggest connecting quick change couplings directly to the tool since they may cause failure due to tool vibration at operation. Instead, add a lead hose and connect coupling between air supply and hose whip.
11. Check hoses for wear before each use. Make certain that all connections are in security.

AIR SYSTEM LAYOUT

- | | | |
|-------------------------|-------------------------------------|-----------------------------------|
| 1. Air Tool | 6. Shut Off Valve | 11. Air Dryer |
| 2. Air Hose 3/8" (I.D.) | 7. Whip Hose | 12. 1" or Larger Pipe and Fitting |
| 3. Oiler | 8. Coupler Body and Connector | 13. Air Compressor |
| 4. Pressure Regulator | 9. Drain Daily | 14. Auto Drain |
| 5. Filter | 10. 1/2" or Larger Pipe and Fitting | 15. Drain Daily |

SYMBOLS

On the product, the rating label and within these instructions you will find among others the following symbols and abbreviations. Familiarise yourself with them to reduce hazards like personal injuries and damage to property.

RPM	Revolutions per minute	CFM	Cubic feet per minute
PSI	Pounds per square inch		
Caution / Warning		Read the instruction manual	
Wear hearing protection		Wear eye protection	
Wear protective gloves		The product complies with applicable European directives and an evaluation method of conformity for these directives was done	

PRODUCT DESCRIPTION



ACCESSORY DESCRIPTION



PART	DESCRIPTION	QUANTITY
A	Wet Air Sander/Polisher	1
B	Front Handle	1
C	Side Handle	1
D	Air Regulating Knob	1
E	Air Inlet	1
F	Water Inlet	1
G	Water Flow Regulator	1
H	Trigger	1
I	Water Tubing	1
J	3-Position Lever Block	1
K	Screw Nut	2
L	Water Diverter	1
M	Backing Pad	1
N	Set Screw	1
O	Work Spindle	1
P	Water Hose	1
Q	Air Hose	1
R	Water Protection Pad with Clamp	1
S	Enclosed Tubing with Clip	1
T	Wrench	1

INTENDED USE

This 4" wet air sander/polisher is of heavy duty construction and powerful. The lightweight and ergonomic design with soft grip handles reduces fatigue at operation. The front handle features a 3-position lever block for adjusting the height of the front handle against the tool body for different working applications. The side handle can be mounted onto either side of tool. The intended use is for sanding, polishing, and laminating marble or stone table and trim work.

For safety reasons it is essential to read the entire instruction manual before first operation and to observe all the instructions therein.

TECHNICAL SPECIFICATIONS

COMPONENT	SPECIFICATIONS
Backing pad	4 Inch
Spindle size	M14 x 2 or 5/8"-11
Free speed	4,000 RPM
Avg. air consumption	8.8 CFM
Working pressure	90 PSI (6.3 BAR)
Air inlet	1/4"
Air Hose	3/8" (inner diameter)

PREPARATION

Before beginning assembly or operation of the product, make sure that all parts are present. If any part is missing or damaged, do not attempt to assemble, install or operate the product. Contact the distributor or sales agent for replacement.

ASSEMBLY

NOTE: Before installing the side handle (C) to the tool, lubricate the gears by using a grease gun (not provided) and inserting the gun nozzle into the right threaded hole for side handle mounting. Several drops of grease are recommended for lubrication. This will protect the gears in good working condition and last tool life. The machine gears should be lubricated once every working day. (See Figure 1)

1. Remove the screw nut (K) and mount the side handle (C) to the left threaded hole of the tool. (See Figure 2)

NOTE: The side handle can be also mounted to the right threaded hole of the tool depending on your likes and/or working condition. (See Figure 3)

NOTE: The set screw (N) can be adjusted either forward or backward for best and comfortable grip of the side handle (C). First rotate the set screw forward or backward and then screw the side handle tight to the tool. (See Figure 4)

2. Screw the backing pad (M) tight with hand onto the male threads of the work spindle (O) while holding the wrench (T) on the flats of the spindle. (See Figure 5)

3. Apply a wet 4" diamond sanding disc (not provided) onto the backing pad (M). Make sure that the disc is set tight and correct. (See Figure 6)

! WARNING Only use qualified wet sanding discs that have an RPM rating equal to or greater than the tool itself.

4. Connect the water hose (P) to the water inlet (F) and leave another end of water hose to the water supply. (See Figure 7)

NOTE: Before connecting the water hose, turn the water flow regulator (G) clockwise to "OFF" position. (See Figure 8)

5. Remove the air inlet protective cap from the air inlet (E). Place 2-3 drops of air tool oil (not provided) into the air inlet before each use. (See Figure 9)

6. Connect the threaded fitting of the air hose (Q) to the air inlet, leaving another end of the air hose to the air supply. (See Figure 10)

NOTE: Use thread sealant tape (not provided) on the male threads of the air hose fitting and tighten it with a wrench (not provided) for airtight connection. Do not overtighten.

NOTE: Before connecting the air hose, turn the air regulating knob (D) backward to "OFF" position. (See Figure 11)

NOTE: Use the enclosed tubing with Clip (S) to protect the water hose (P) and air hose (Q) whenever necessary.

NOTE: Use the water protection pad with clamp (R) by pressing the clamp onto the tool housing whenever necessary. (See Figure 12)

NOTE: The tool front handle (B) features a 3-position lever block (J) for adjusting the height of the front handle against the tool body for different working applications. Rotate the lever block (J) having the concave line(s) on the lever block facing visibly to the operator. "Setting 1" stands for the highest position of the front handle against the tool body while "Setting 3" is for lowest

position of the front handle against the tool body. (See Figure 13)

Setting 1 (1 line) Setting 2 (2 lines) Setting 3 (3 lines)

OPERATION

1. Connect the water hose (P) to the water supply.
2. Connect the air hose (Q) to the air supply. Set the working pressure to 90 PSI (6.3 BAR) for best tool performance.

NOTE: The working pressure refers to the air line pressure set to the tool when the tool is under working condition.

3. Slowly turn the water flow regulator (G) counterclockwise to the upmost to have water flow through the water tubing (I). (See Figure 14)

4. Press the trigger while slowly turning the air regulating knob (D) forward to start the tool. (See Figure 15)

NOTE: The maximum tool speed can be obtained by turning the air regulating knob (D) forward to the upmost.

! WARNING Always ensure that the tool has come to a complete stop before putting it down after use.

! WARNING When stopping your work, turn the water flow regulator (G) clockwise to "OFF" position and do not have water flow through the water tubing (I).

CARE AND MAINTENANCE

The tool should be lubricated daily (or before each use) with air tool oil (not included).

NOTE: Air tool oil is available at major tool hardware stores. SAE #10 weight oil or sewing machine lubricant or any other high grade turbine oil containing moisture absorbent, rust inhibitors, metal wetting agents and an EP (extreme pressure) additive may be used as a substitute. Do not use detergent oil.

During continuous operation, the tool should be oiled every 1 to 2 hours. This may be done using an in-line oiler, or manually. If done manually, proceed as follows:

1. Disconnect the tool from air supply.
2. Place a few drops of air tool oil into the air inlet.
NOTE: Avoid the misuse of thicker oil which may lead to the reduced performance or malfunction.
3. Connect the tool to the air supply. Run the tool without load for a few seconds to distribute the oil through the tool.
NOTE: Any excess oil may be propelled from the spindle area or air exhaust area. So keep the spindle away in a safe direction.
4. After operating the tool and before storing the tool, disconnect the air hose and place 4 or 5 drops of air tool oil into the air inlet, then re-connect the air hose and run the tool to evenly distribute the oil throughout the tool for 30 seconds approximately. This will prolong the tool life.
5. Avoid storing the tool in a humid environment which promotes rusting of internal mechanisms. Always oil the tool before storage.
6. When the tool is seriously damaged or out of life, it should be left in a resource recycling can. Never drop it into fire.

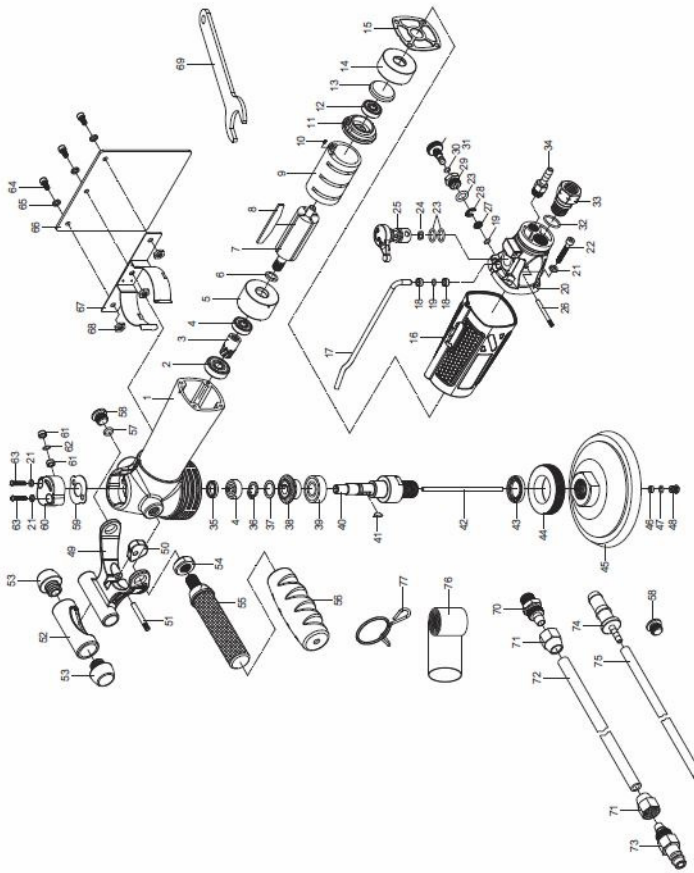
TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
<p>Tool runs slowly or will not operate.</p>	<ol style="list-style-type: none"> 1. Grit or gun in tool. 2. No oil in tool. 3. Low air pressure. 4. Air hose leaks 5. Pressure drops. 6. Worn rotor blade 7. Moisture blowing out of tool exhaust 	<ol style="list-style-type: none"> 1. Flush the tool with air tool oil or gum solvent. 2. Lubricate the tool according to the lubrication instructions in this manual 3. a. Adjust the regulator on the tool to maximum setting. b. Adjust the compressor regulator to tool maximum of 90 PSI 4. Tighten and seal hose fittings if leaks are found. Use sealing tape. 5. a. Be sure the hose is the proper size. Long hose or tool using large volumes of air may require a hose with I.D. of 1/2 in. or larger depending on the total length of the air hoses. b. Do not use a multiple number of air hoses connected together with quick-connect fittings. This causes additional pressure drops and reduces tool power. Directly connect the air hoses together. 6. Replace rotor blade. 7. Water in tank: Drain tanks (See air compressor manual.) Oil tool and run until no water is evident. Oil tool again and run 1-2 seconds.

<p>Abnormal vibration and/or excessive heat develops in the tool.</p>	<p>Improper lubrication.</p>	<p>Follow proper lubrication procedures in this manual.</p>
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NOTE: For any special troubles which cannot be settled down by the operator, contact the distributor or sales agent from whom you purchase the tool.

EXPLODED DIAGRAM AND PARTS LIST



Part No.	Description	Quantity	Part No.	Description	Quantity
1	Main housing	1	45	Gear	1
2	Bearing	1	46	Bearing	1
3	Gear	1	47	Work spindle	1
4	Bearing	2	48	Semi-round key	1
5	Front cover	1	49	Brass tubing	1
6	Bushing	1	50	Fix ring	1
7	Rotor	1	51	Seal ring	1
8	Rotor blade	4	52	Backing pad	1
9	Cylinder	1	53	Bushing	1
10	Bolt	1	54	O-ring	1
11	Rear cover	1	55	Water diverter	1
12	Bearing	1	56	Front handle	1

13	Dust protection cover	1	57	3-position lever block	1
14	Top sleeve	1	58	Bolt	1
15	Cushion	1	59	Soft grip	1
16	Soft grip	1	60	Plug	2
17	Water tubing	1	61	Set screw	1
18	Bushing	2	62	Side handle	1
19	O-ring	2	63	Soft grip	1
20	Rear housing	1	64	Screw nut	2
21	Spacer	6	65	Cushion	1
22	Screw	4	66	Water tube connector	1
23	Spring	1	67	Bushing	2
24	Bolt	1	68	O-ring	1
25	O-ring	1	69	Screw	2
26	O-ring	3	70	Wrench	1
27	Cushion	1	71	Screw	3
28	Air regulating knob	1	72	Spacer	3
29	Bolt	1	73	Water protection pad	1
30	E-clip	1	74	Bracket	1
31	Valve seat	1	75	Nut	3
32	O-ring	1	76	Air hose fitting	1
33	Water flow regulator	1	77	Set nut	2
34	Trigger	1	78	Air hose	1
35	Bolt	1	79	Air hose connector	1
36	Bolt	1	80	Water hose connector	1
37	Spring	1	81	Water hose	1
38	Lever block	1	82	Enclosed tubing	1
39	O-ring	1	83	Clamp	1
40	Air inlet	1	84	Bushing	1
41	Water inlet	1	85	O-ring	1
42	Seal ring	1			
43	Clip	1			
44	Spacer	1			

- Contact the distributor or sales agent from whom you purchase the tool for spare parts ordering for any necessary replacement to get continuous use of tool and for extending the tool life.
- When ordering spare parts and components, give each part number and order quantity.

Thank you.