4" MAX PRO PNEUMATIC WET GRINDER
OPERATING INSTRUCTIONS AND PARTS MANUAL

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PART#150800

Thanks for your purchasing our air tools
and please read this Instruction Manual carefully
and thoroughly before operating the tool to do your best jobs.

1

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 conditons

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. 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 protection to avoid flying particles from the front and side when using the tool. Ear protection 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/6.2bar 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 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 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.
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 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 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.

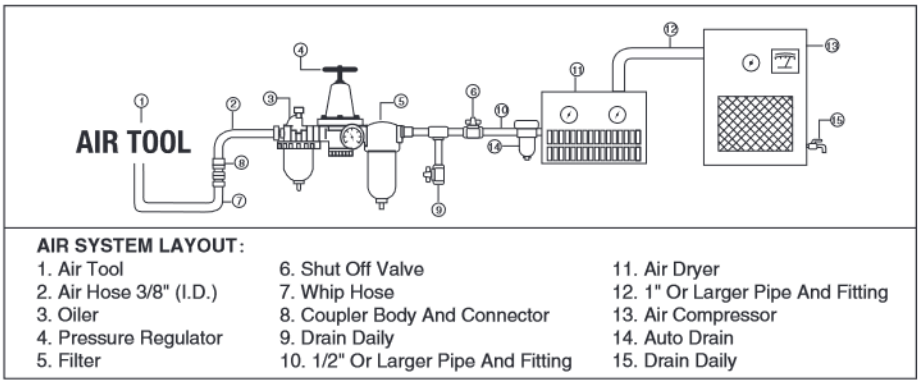
AIR SUPPLY

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.
2. Air compressors used with the tool must comply with the appropriate European Community Safety Directives.

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. Typically a 3/8" (inner diameter) air hose is recommended for air supply and airflow to get the optimum performance of tool.
9. An air hose (over 8 meters) may cause up to 15psi drop in pressure, therefore you 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 as 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 secure.



AIR SYSTEM LAYOUT:

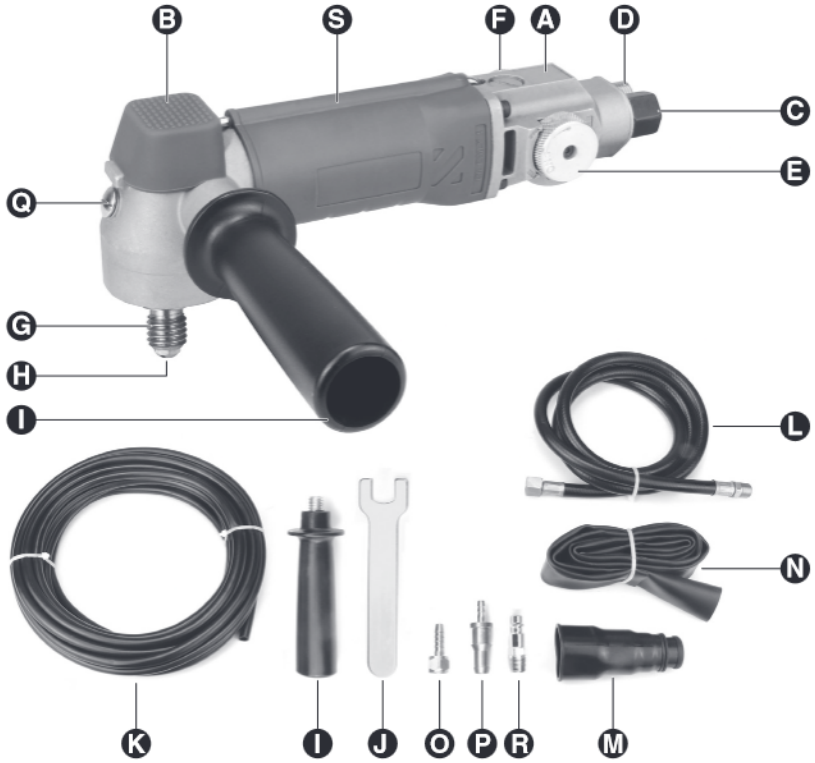
1. Air Tool	6. Shut Off Valve	11. Air Dryer
2. Air Hose 3/8" (I.D.)	7. Whip Hose	12. 1" Or Larger Pipe And Fitting
3. Oiler	8. Coupler Body And Connector	13. Air Compressor
4. Pressure Regulator	9. Drain Daily	14. Auto Drain
5. Filter	10. 1/2" Or Larger Pipe And Fitting	15. Drain Daily

SYMBOLS

Please familiarize yourself with the following symbols and abbreviations.

RPM	Revolutions per minute	CFM	Cubic feet per minute
PSI	Pound per square inch		
	Caution / Warning.		Read the instruction manual.
	Wear hearing protection.		Wear eye protection.
	Wear protective gloves.		

PRODUCT DESCRIPTION



Part	Description
A	Water-Feed Air Sander/Polisher
B	Head Cover
C	Air Inlet
D	Water Inlet
E	Air Regulation Knob
F	Water Flow Control Knob
G	Work Spindle
H	Water Diverter
I	Side Handle
J	Wrench

Part	Description
K	Water Hose
L	Air Hose
M	End Protection Sleeve
N	Hose Protection Tube
O	Water Inlet Connector
P	Water Hose Connector
Q	Grease Fitting
R	Air Plug
S	Soft Grip

INTENDED USE

This Water-Feed Air Sander/Polisher is of heavy duty construction and extremely powerful. The side handle and head cover reduce fatigue at operation. It is great for wet sanding and polishing of marble and stone, for trim work and much more.

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

TECHNICAL SPECIFICATIONS

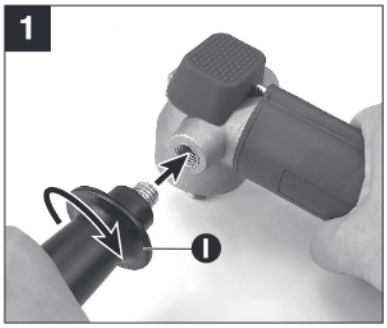
COMPONENT	SPECIFICATIONS
Backing Pad	4"
Sanding Disc	4"
Spindle Size	5/8"-11
Max. No Load Speed	5,000 RPM
Avg. Air Consumption	5.75 CFM @ 90 PSI
Operating Pressure	90 PSI
Air Inlet	1/4"
Recommended Air Hose Size (ID)	3/8"

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.

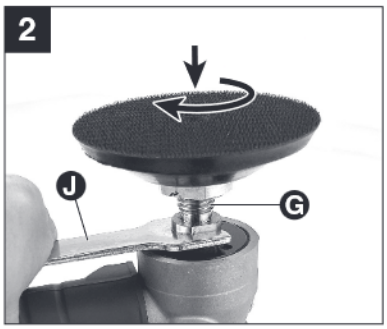
ASSEMBLY

1. Mount the side handle (I) by screwing into the threaded hole on either side of the tool depending on your likes and/or working condition. Make sure that the side handle has been set tight and secure. (See Figure 1)



2. Prepare a proper 4" backing pad (not provided) and screw tight with hand onto the male threads of the work spindle (G) while holding the wrench (J) on the flats of the spindle. (See Figure 2)

   WARNING! Only use qualified backing pad that has an RPM rating equal to or greater than the tool itself.



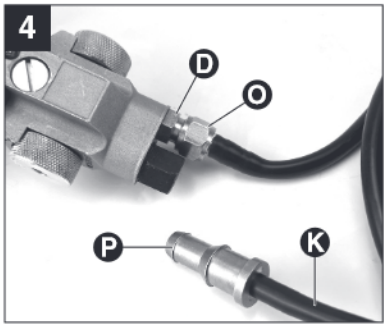
3. Apply a wet diamond sanding disc (not provided) onto the backing pad. Make sure that the disc is mounted aligned with the backing pad and set tight and correct. (See Figure 3)

   NOTE: The size of wet diamond sanding disc should match that of the backing pad.

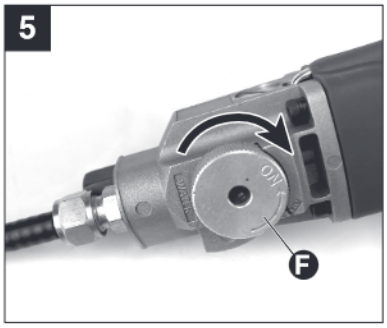
   NOTE: Choose the wet diamond sanding disc of correct grit to complete your work. It is recommended that you start with a disc of coarse grit and finish with a disc of fine grit.

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

4. Install the water inlet connector (O) by screwing onto the male threads of the water inlet (D). Insert the barb end of the water inlet connector to one end of water hose (K). Insert the barb end of water hose connector (P) to another end of the water hose. (See Figure 4)



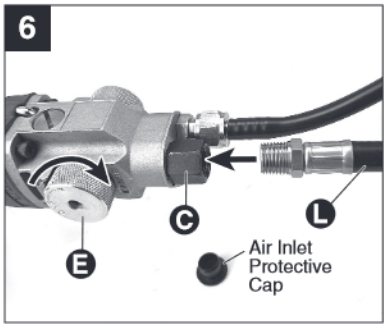
NOTE: Before connecting the water hose to the water inlet connector, turn the water flow control knob (F) clockwise to the "OFF" position. (See Figure 5)



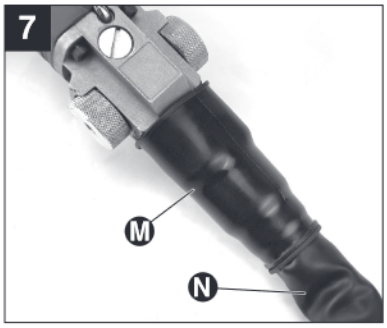
5. Remove the air inlet protective cap from the air inlet (C). Apply the air hose (L) by screwing the male threaded end to the air inlet. Use thread sealant tape (not provided) for airtight connection. (See Figure 6)

NOTE: Turn the air regulation knob (E) clockwise to the "OFF" position.

IMPORTANT: Apply 2-3 drops of air tool oil to the air inlet before each use.



6. Connect the end protection sleeve (M) to the hose protection tube (N). Slide the water hose and air hose through the tube. Have the large opening of the end protection sleeve sitting onto the rear portion of the tool, and tighten with a nylon tie if necessary. (See Figure 7)



OPERATION

1. Connect the water hose (K) to the water supply.
2. Connect the air hose (L) to the air supply. Set the operating pressure to 90 PSI (6.2 BAR) for best tool performance.

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

3. Slowly turn the water flow control knob (F) counterclockwise to the upmost to have water flow through the water diverter (H).

4. Slowly turn the air regulation knob (E) counterclockwise to the upmost to get the full speed of tool.

NOTE: Start the wet air sander/polisher (A) and have it run at lower speed before applying the tool to the workpiece.

5. To stop the tool, turn the air regulation knob clockwise 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 control knob clockwise to the "OFF" position and do not have water flow through the water diverter.

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.

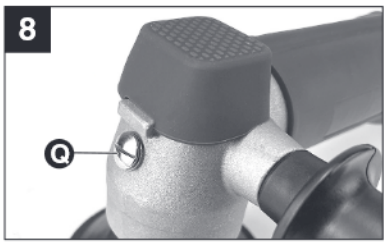
NOTE: Any excess oil may be propelled from the spindle area or air exhaust area. So keep the spindle away in a safe direction.

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.

Lubricating gear assembly

Remove the grease fitting (Q) with use of a screwdriver (not provided). Force several

drops of grease into the opening with a suitable grease gun (not provided). Replace the grease fitting. Run the tool for several moments to distribute the grease. This will help the gear assembly to work in good condition and extend tool's life. Lubricate the gear assembly once every working day. (See Figure 8)

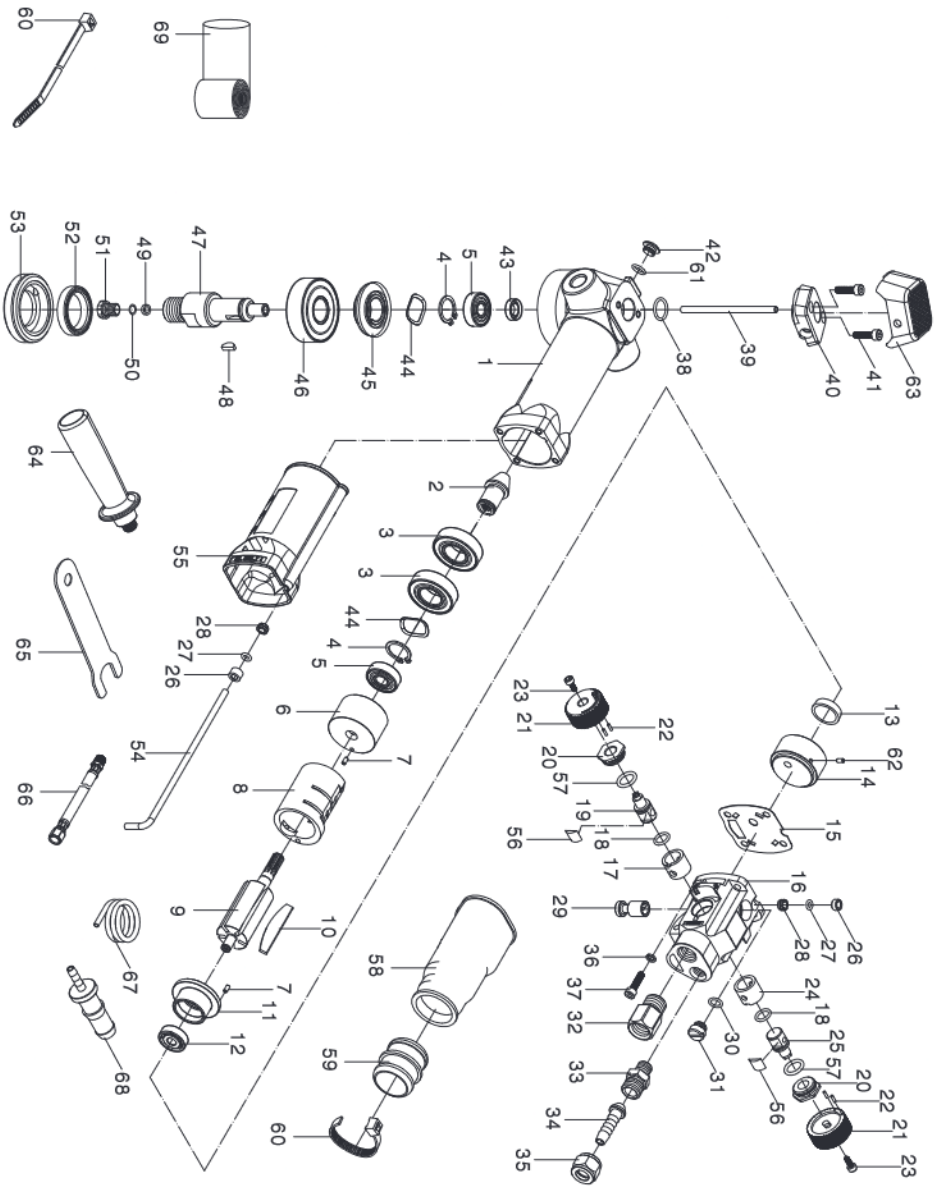


TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Tool runs slowly or will not operate.	1. Grit or gun in tool.	1. Flush the tool with air tool oil or gum solvent.
	2. No oil in tool.	2. Lubricate the tool according to the lubrication instructions in this manual.
	3. Low air pressure.	3. a. Adjust the regulator on the tool to maximum setting. b. Adjust the compressor regulator to tool maximum of 90 PSI.
	4. Air hose leaks.	4. Tighten and seal hose fittings if leaks are found. Use sealing tape.
	5. Pressure drops.	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. Worn rotor blade.	6. Replace rotor blade.
	7. Moisture blowing out of tool exhaust.	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.
Abnormal vibration and/or excessive heat develops in the tool.	Improper lubrication.	Follow proper lubrication procedures in this manual.

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



PARTS LIST

Part No.	Description	Qty.
1	Main housing	1
2	Gear	1
3	Bearing	2
4	Circlip	2
5	Bearing	2
6	Front cover	1
7	Pin	2
8	Cylinder	1
9	Rotor	1
10	Rotor blade	5
11	Rear cover	1
12	Bearing	1
13	Dust protection cover	1
14	Top sleeve	1
15	Gasket	1
16	Rear housing	1
17	Bushing	1
18	O-ring	2
19	Valve	1
20	Nut	2
21	Air adjustable knob	1
22	Pin	4
23	Screw	2

Part No.	Description	Qty.
24	Bushing	1
25	Water valve	1
26	Bushing	2
27	O-ring	2
28	Bushing	2
29	Bushing	1
30	O-ring	1
31	Nut	1
32	Air inlet	1
33	Water inlet	1
34	Water inlet connector	1
35	Nut	1
36	Spacer	4
37	Screw	4
38	O-ring	1
39	Brass tubing	1
40	Water tube connector	1
41	Screw	2
42	Grease fitting	1
43	Seal ring	1
44	Spacer	2
45	Gear	1
46	Bearing	1

Part No.	Description	Qty.
47	Work spindle	1
48	Woodruff key	1
49	Bushing	1
50	O-ring	1
51	Water diverter	1
52	Seal ring	1
53	Fix ring	1
54	Water tube	1
55	Soft grip	1
56	Gasket	2
57	O-ring	2
58	End protection sleeve	1
59	Connector	1
60	Nylon ties	4
61	O-ring	1
62	Pin	1
63	Head cover	1
64	Side handle	1
65	Wrench	1
66	Air hose	1
67	Water hose	1
68	Water hose connector	1
69	Hose protection tube	1