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Polymak[®]

WALL SANDER

180mm

INSTRUCTION MANUAL



Read and follow all safety precautions in instruction manual.

I. General safety rules for electric tools

⚠ WARNING: Please be sure to read all these warnings and instructions. Failure to follow the instructions listed below may result in electric shock, fire and / or serious person injury. Keep all the warnings and operation manual for future consultation.

a) Work area safety:

- 1) Keep you working area clean and bright. Clattered or dark area may cause an accident.
- 2) Do not operate electric tools in explosive environment as in the presence of inflammable liquids, gases or dusts. Sparks generated by the electric tools may ignite the gases or fumes.
- 3) Keep children and bystanders away while operating an electric tool. Poor attention may cause you to lose control of the tool.

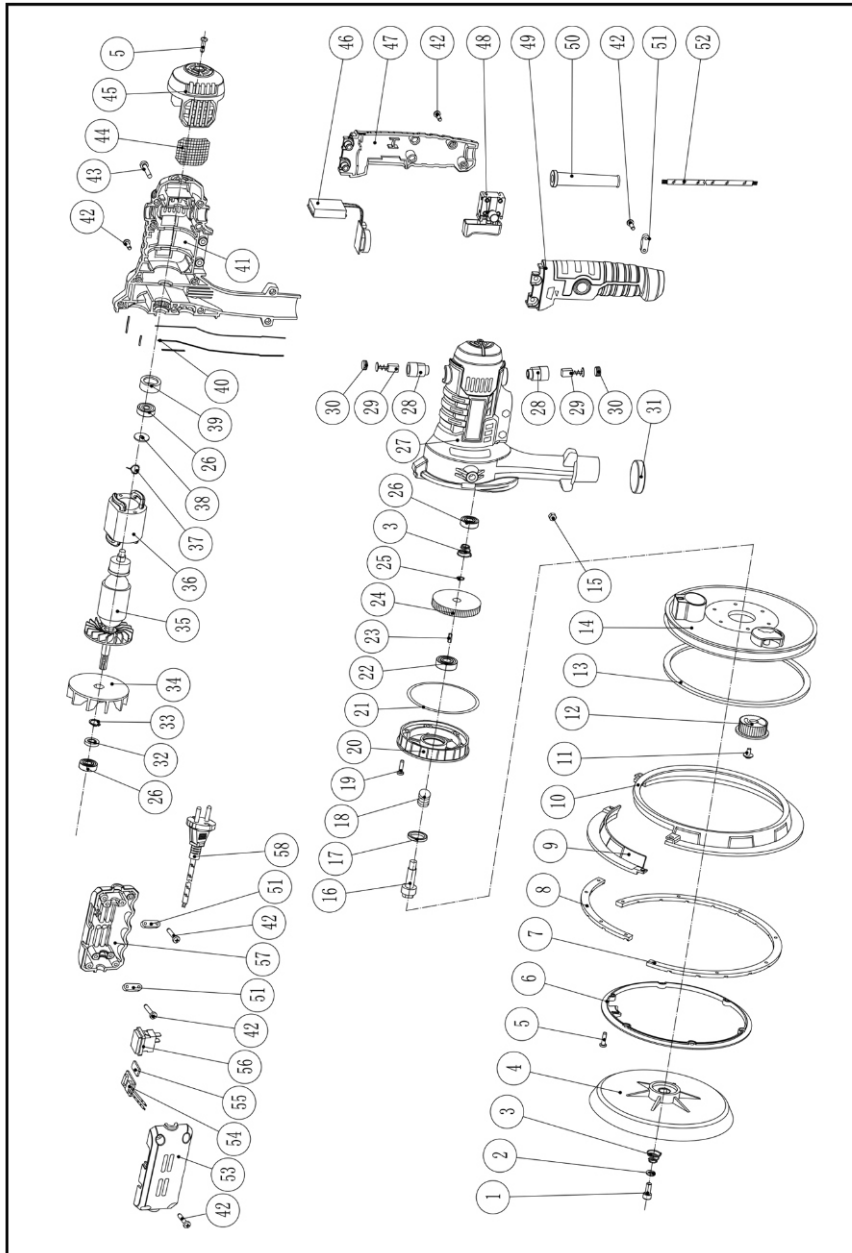
b) Electrical safety

- 1) Plugs of electric tools must match with the socket. Please never try to modify the plugs in any way. Please do not use any adapter plugs for the electrical tools that shall be grounded. Unmodified plugs and matching sockets will reduce the risk of electric shock.
- 2) Prevent the human body from contacting the grounded surfaces, such as pipes, radiators and refrigerators. Otherwise, the risk of electric shock will be increased.
- 3) Do not expose the electric tools in the rain or damp environment. An electrical tool with water entering will increase the risk of electric shock.
- 4) Please do not abuse the cable . Never use the cable to carry, pull or unplug the tool. Keep the cable away from heat source, oil, sharp edge, or moving parts. Damaged or entangled wire will increase the risk of electric shock.

PM7WS Exploded

No	Name	Qty	No	Name	Qty
01	Screw M6X22	1	30	Carbon brush cover	2
02	Washer (φ 13.5X φ 6X0.8)	1	31	Dustproof leather case	1
03	Compression spring	2	32	Oil seal (φ 20X φ 10X5)	1
04	180 Adhibit tray	1	33	Snap ring 9	1
05	Screw ST4X10	7	34	Wind leaf	1
06	Sliding clamp	1	35	Rotor	1
07	Wearing strip A	1	36	Stator	1
08	Wearing strip B	1	37	Rind	2
09	Movable shield	1	38	Washer (φ 18X φ 8X1)	1
10	Fixed shield	1	39	608 Bearing sleeve	1
11	Screw ST4X10	1	40	Rubber strip	surname
12	Knob	1	41	Right enclosure	1
13	Connection cable	1	42	Screw ST4X16	25
14	Lamp-chimney	1	43	Screw M5X32	2
15	Nut M5	2	44	Dust screen	2
16	Output shaft	1	45	Back cover	1
17	Oil seal (φ 24X φ 18X3)	1	46	Speed governor	1
18	Compression spring	1	47	Right-handle	1
19	Screw ST4X25	6	48	Switch	1
20	Gearbox	1	49	Left-handle	1
21	Paper washer	1	50	Cable sheatch	1
22	6000 Bearing	1	51	Cable pressing plate	3
23	Flat key (3X3X8)	1	52	four-core electric wire	1
24	Big gear	1	53	Left-switch cover	1
25	Ring 10	1	54	Transformer	1
26	608 Bearing	3	55	Transformer cover	1
27	Left enclosure	1	56	Switch	1
28	Brush holder	2	57	Right-switch cover	1
29	Carbon brush	2	58	Power cable	1

PM7WS Partlist



5) While operating an electric tool outdoors, select a proper piece of grounding cord suitable for outdoor purpose. A cord suitable for outdoor use will reduce the risk of electric shock.

6) If it is necessary to operate an electric tool in damp environment, a residual current device (RCD) shall be used.

c) Personal safety

1) Stay alert. Concentrate on what you are engaged in and keep clear-minded while operating an electric tool. Please do not use an electric tool when you feel tired or under the influence of drugs, alcohol or medication. A moment of inattention at operation may result in serious human injury.

2) Use personal protective equipment. Goggles shall be worn all the time. Protective equipment, such as dust mask, antiskid shoes, safety helmet, hearing protector and others, will reduce personal injuries when they are used for appropriate conditions.

3) Avoid accidental starting of tools. Make sure the switch of the tool is in its "OFF" position while connecting an electric tool to the power supply and / or battery packs, moving or carrying an electric tool. Placing your fingers on the switch with power on or plugging in the electric tool with power switch at "ON" position will cause a danger.

4) Remove all the regulating keys or wrenches before turning on the electric tool. A key or wrench left onto the rotating parts of the electric tool may result in personal injury.

5) Do not overreach your hands. Keep proper footing and balance all the time so that you can better control the electric tool in unexpected situations.

6) Be properly dressed. Please do not wear loose clothing and accessories. Keep your hair, gloves and clothing away from the moving parts. Loose clothing, accessories or long hairs may be caught in the moving parts of electric tool.

7) If devices are supplied to connect with chip removal and dust collection facilities, make sure they are well connected and properly used. Application of these devices can reduce dust-related hazards.

d) Operation and attentions of electric tools

1) Do not abuse the electric tool. Select the right type of electric tool in accordance with your application. A properly designed electric tool will make your job more efficient and safer.

2) Do not use the electric tool if the switch cannot be turned on and off. An electric tool that cannot be controlled with the switch is dangerous and must be repaired.

3) Disconnect the plug from power supply or battery pack from the tool before any adjustment, accessory replacement or electric tool storage. Such preventive measures can reduce the risk of accidental starting of the electric tool.

4) Store the electric tools that will not be used out of the reach of children. Do not allow persons unfamiliar with the electric tools or the instructions to operate the tools. Operation of the tools by untrained user is dangerous.

5) Maintain the electric tools. Check whether the moving parts are properly adjusted or seized; check the components for breakage and check any other conditions that may affect normal operation of the electric tools. If there is damage, please have it repaired before use. A lot of accidents are caused by improperly maintained electric tools.

6) Keep the cutting tools sharp and clean. Properly maintained cutting tools with sharp edges are less likely stuck and are easier to control.

7) Use the electric tool, accessories, tool bit and others in accordance with the operation instructions, working conditions and the work to be performed. Use of electric tool for operations against its application range could result in a danger.

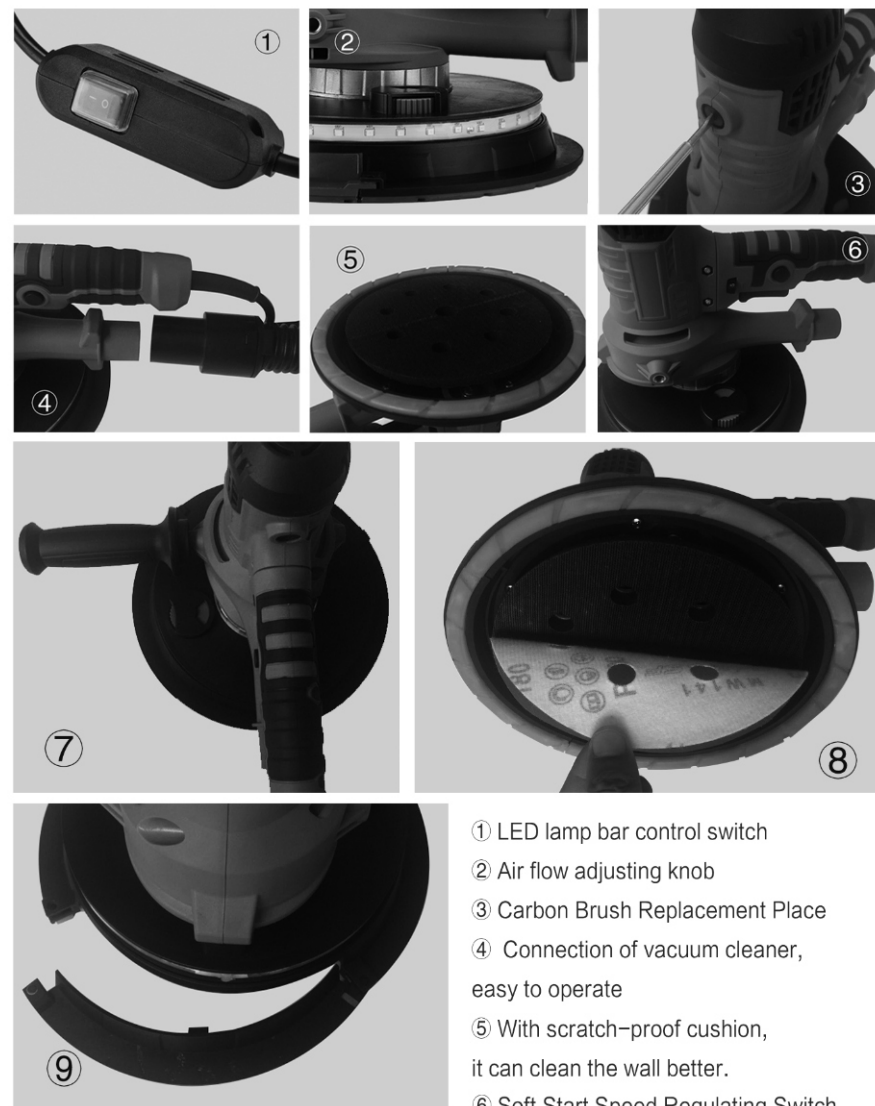
e) Repair

Have your electric tool repaired by qualified serviceman and with the same spare part. This will ensure the safety of the repaired electric tool.

2. Instructions for all the operations

General safety rules for sanding operation

Operation instructions



- ① LED lamp bar control switch
- ② Air flow adjusting knob
- ③ Carbon Brush Replacement Place
- ④ Connection of vacuum cleaner, easy to operate
- ⑤ With scratch-proof cushion, it can clean the wall better.
- ⑥ Soft Start Speed Regulating Switch
- ⑦ Auxiliary Handle Operation
- ⑧ Place 180 mm sandpaper on floppy disk
- ⑨ Corner removable

4. Additional instructions on sanding operation

Special safety warning on sanding operation:

a) While sanding, do not use extra large sand disk paper. Select the sand disk paper recommended by the manufacturer. Large sand paper beyond the range of sand disc has the risk of tear and causes entangling, tear and bounce of sand disc.

II Voltage

Before connecting the electric tool to a power socket, please make sure that the voltage of power supply is in consistent with the rated voltage of the tool. If voltage of the power supply is higher than that of the tool, but use it by mistake, it will not only damage the tool, but cause human injuries. If the voltage of the socket cannot be ensured, please never try to use it. Additionally, if the voltage of power supply is lower than the voltage required by the tool, it is also harmful to the electrical motor.

III Application of tool

The tool is one of the series of products made by our company and belongs to handheld electric tools.

The tool is mainly used for interior wall, external wall, corridor and other limestone walls. It removes paint, lime sludge and wall paper on the walls and smoothen and flatten the walls as well. It improves efficiently the wall polishing efficiency and quality.

The tool takes into full consideration of all types of working conditions at design. It can run at high and low speed with user-friendly and convenient design.

IV Technical parameters

Model	PM7WS
Voltage/Frequency	220V/50Hz
Power	850W
No load speed	1000-2500r/min
Disc Dia.	180mm
Dust Clean Rate	98%

a) The electric tool is used to realize functions of sander. Read carefully all the safety warnings, instructions, illustrations and regulations related to the electric tool. Operations without following the listed instructions may cause electrical shock, fire and /or serious injuries.

b) Using the electric tools for sand milling, brushing, polishing, cutting or other operations are not suggested. Operations of the electric tool without following its assigned functions may cause danger and result in personal injury.

c) Do not use spare parts not recommended or specially designed by the manufacturer; otherwise the unqualified spare parts may be installed onto your electric tool, which cannot guarantee operation safety.

d) The rated rotary speed of the accessory must be at least equal to the maximum rotary speed labeled on the electric tool. Rotation of the accessory in a speed beyond its rated rotary speed range can cause a burst and spatter.

e) Outer diameter and thickness of the accessory must be within the rated capacity of the electric tool. Incorrect accessory size cannot ensure sufficient protection or control.

f) Shaft hole sizes of sand wheel, flange disk, back cushion or any other accessories must be appropriate to be installed onto the main shaft of the electric tool. Accessories with shaft hole, or mismatched with the installation parts of the electric tool will result in instability, over vibration and be out of control.

g) Do not use damaged accessories. Check the accessories before each operation, such as to check the sand wheel for cracks and fragments, to check the back cushion for cracks, tear or excessive wear, and to check the steel brush for looseness or the metal wires for breakage. If the electric tool or its accessory falls down, check if it is damaged or if is necessary to install undamaged accessory. After the checkup and installation of accessory, the operator and bystanders shall be far away from the plane of rotary accessory and run the electric tool at the maximum idle load speed for 1min. The damaged accessories usually break during the test.

h) Wear protective equipment. Use face mask, safety goggles or safety blindfold as actually needed. Where applicable, wear dust mask, hearing protector, gloves, and working apron that can keep out of small abrasives or work fragments. Goggles must be able to keep off the flying chips from all the operations. Dust mask or face mask must be able to filter the particles generated by the operations. Long time exposure to the noise of high intensity will result in hearing loss.

i) Keep the bystanders a safety distance from the working area. Any person entering the working area shall wear protective equipment. Working pieces or fragments from the damaged accessory may spatter and hurt the bystanders close to the working area. Exposed metal of the electric tool will be electrified and shock the operator when the cutting accessory touches a piece of live wire.

j) When the cutting accessory have to work in an area where it may cut the concealed wire or its own wire, the operator can only hold the electric tool via the insulated holding surface. Exposed metal of the electric tool will be electrified and shock the operator when the cutting accessory touches a piece of live wire.

k) Keep the cord away from rotary accessories. Under improper control, the cord may be cut or entangled, and furthermore the hand or arm of the operator may be drawn into the rotary accessories.

l) Do not put down the electric tool till the accessories stop rotation completely. Rotating accessory can grab the surface and pull the electric tool, which may make the operator lose control of the tool.

m) Please do not turn on the electric tool while carrying it. If you touch the rotating accessory by accident, the rotating accessory could twine your clothes and hurt your body.

n) Clean frequently the air vent of the electric tool. Otherwise, too much metal dust deposit will cause electrical danger.

o) Do not operate the electric tool near inflammable materials. Sparks from the tool may ignite the materials.

p) Do not use accessories that require cooling liquid. Water or other cooling liquid would cause electro-corrosion or electrical shock.

3. Further safety instructions on all the operation

Bounce and relevant warning:

Bounce is a sudden counter acting force produced due to stuck or entangled rotating sand wheel, back cushion, steel brush or other accessories. Being stuck or entangled will cause a rapid stall to the rotating accessory; thereupon, at the stuck position, the out-of-control electric tool produces a movement opposite to the rotation direction of accessory.

For example, if the sand wheel is entangled or stuck by the work piece, the sand wheel edge stretching into the stuck point could enter the surface of material and cause the sand wheel to climb out or bounce.

The sand wheel may fly towards or off the operator. It depends on the moving direction of sand wheel at the stuck point. Under the situation, the sand wheel may break.

Bounce represents misuse of electric tool and / or improper operation procedures or conditions, which can be avoided by taking the following proper protective measures:

a) Keep holding the electric tool and make your body and arm in the correct state to resist the bounce. If there is an auxiliary handle, which shall be used at all the time so that the operator can to the utmost extent control the bounce or counter torque at starting. If proper preventative measures are taken, the counter torque or bounce shall be controlled at all the time.