

Polymak[®]

JIG SAW

PM60JGE

INSTRUCTION MANUAL

Polymak[®]

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Read and follow all safety precautions in instruction manual.

General power Tool Safety Warnings

Read all safety warnings and all instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term " power tool " in the warnings refers to your mains-operated (corded)

Power tool or battery-operated (cordless) power tool.

1) Work area safety

a) keep work area clean and well lit. Cluttered or dark areas invite accidents.

b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.

c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2) Electrical safety

a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

b) Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges and moving parts. Damaged or entangled cords increase the risk of electric shock.

e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

3) Personal safety

a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

b) Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

PM60JGE JIG SAW SPARE PARTS LIST

No	Name of parts	PCS	Part No	No	Name of parts	PCS	Part No
1	Right Handle	1		41	Guide Holder	1	
2	Light Brush Cover	1		42	Spring 0.4*4.1*10.5	2	
3	Switch	1		43	Seal	1	
4	Cable 2*0.75	1		44	Pin 6*30	1	
5	Cord Protector	1		45	Pin 5.02*23	3	
6	Cord Clamp	1		46	Pin 3*9.8	2	
7	Screw ST4*14	2		47	Oilless Bearing 10*14*10	1	
8	Speed Controller	1		48	Screw STM4*60	4	
9	Rubber Ring	3		49	Screw STM4*16	6	
10	Pulley Holder	1		50	Screw STM4*40	1	
11	Pin 4*34	1		51	Screw STM3*9	1	
12	Pin 4.2*20	1		52	Left Handle	1	
13	Pulley	1		53	Left Brush Cover	1	
14	Screw ST4*14	3		54	Shaft	1	
15	Sleeve 8.5*14*10	1		55	Screw M6*7		
16	Front Cover	1		56	Screw M6*8	1	
17	Carrier	1		57	Clamp	1	
18	Guide	1		58	Rubber Washer	1	
19	Screw M4*12	2		59	Washer 16*10.2*0.3	1	
20	Needle Bearing 12*7*6	1		60	Washer	1	
21	Screw M5*16	2		61	Dust protect Washer	1	
22	Washer 9	1		62	Steel Wire	1	
23	Cam	1		63	Plastic Cover	1	
24	Washer 26.5*35*0.5	2		64	Ring 5	1	
25	Balance weight	2		65	Steel Ball M4	1	
26	Fork	1		66	Spring 0.4*3.8*15	1	
27	Needle Bearing HK0910	2		67	Lever	1	
28	Gear	1		68	Alium Base	1	
29	Washer 9*21.5*0.5	1		69	Support	1	
30	Spindle	1		70	Ring 6	1	
31	Rubber Ring	1		71	Screw M6*22		
32	Bearing 607-2RS	1		72	Steel Base	1	
33	Washer	/		73	Screw M5*8	4	
34	Armature	1		74	Baffle Plate	1	
35	Bearing 608-2RS	1		75	Field Coil	1	
36	Screw M4*10	3		76	Housing	1	
37	Gearcase	1		77	Carbon Brush	2	
38	Screw STM4*18	2		78	Brush Holder	2	
39	Paper Washer	1		79	Spring	2	
40	Screw M4*12	1					

- C) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, Picking up or carrying the tool. Carrying power source and/or battery pack, Picking up or carrying the tool. Carrying power tools with your finger on The switch or energizing power tools that have the switch on invites accidents.
- d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left. Attached to a rotating part of the power tool may Result in personal injury.
- e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, Jewellery or long hair can be caught in moving parts.
- g) If devices are provided for the connection of dust extraction and Collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.
- 4) Powertool use and care
- a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the Rate for which it was designed.
- b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) Disconnect the plug from the power source and/or the battery pack From the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive Safety measures reduce the risk of starting the power tool accidentally.
- d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to Operate the power tool. Power tools are dangerous in the hands of Untrained users.
- e) Maintain power tools. Check for misalignment or binding of moving Parts, breakage of parts and any other condition that may affect the Power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f) Keep cutting tools sharp and clean. Properly maintained cutting tools With sharp cutting edges are less likely to bind and are easier to control.
- 9) Use the power tool, accessories and tool bits etc. In accordance with these Instructions, taking into account the working conditions and The work to be performed. Use of the power tool for operations different From those intended could result in a hazardous situation.
- 5) service
- a) Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the

power tool is maintained

Safety Warnings for Jigsaws

- Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- Keep hands away from the sawing range. Do not reach under the workpiece. Contact with the saw blade can lead to injuries.
- Apply the machine to the workpiece only when switched on. Otherwise there is danger of kickback when the cutting tool jams in the workpiece.
- Pay attention that the base plate rests securely on the material while sawing. A jammed saw blade can break or lead to kickback.
- When the cut is completed, switch off the machine and then pull the saw blade out of the cut only after it has come to a standstill. In this manner you can avoid kickback and can place down the machine securely.
- Use only undamaged saw blades that are in perfect condition. Bent or dull saw blades can break, negatively influence the cut, or lead to kickback.
- Do not brake the saw blade to a stop by applying aide pressure after switching off. The saw blade can be damaged, break or cause kickback.
- Use suitable detectors to determine if utility lines are hidden in the work area or call the local utility company for assistance. Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to explosion. Penetrating a water line causes property damage or may cause an electric shock.
- Secure the workpiece. A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- Always wait until the machine has come to a complete stop before placing it down. The tool insert can jam and lead to loss of control over the power tool.

Product Description and Specifications

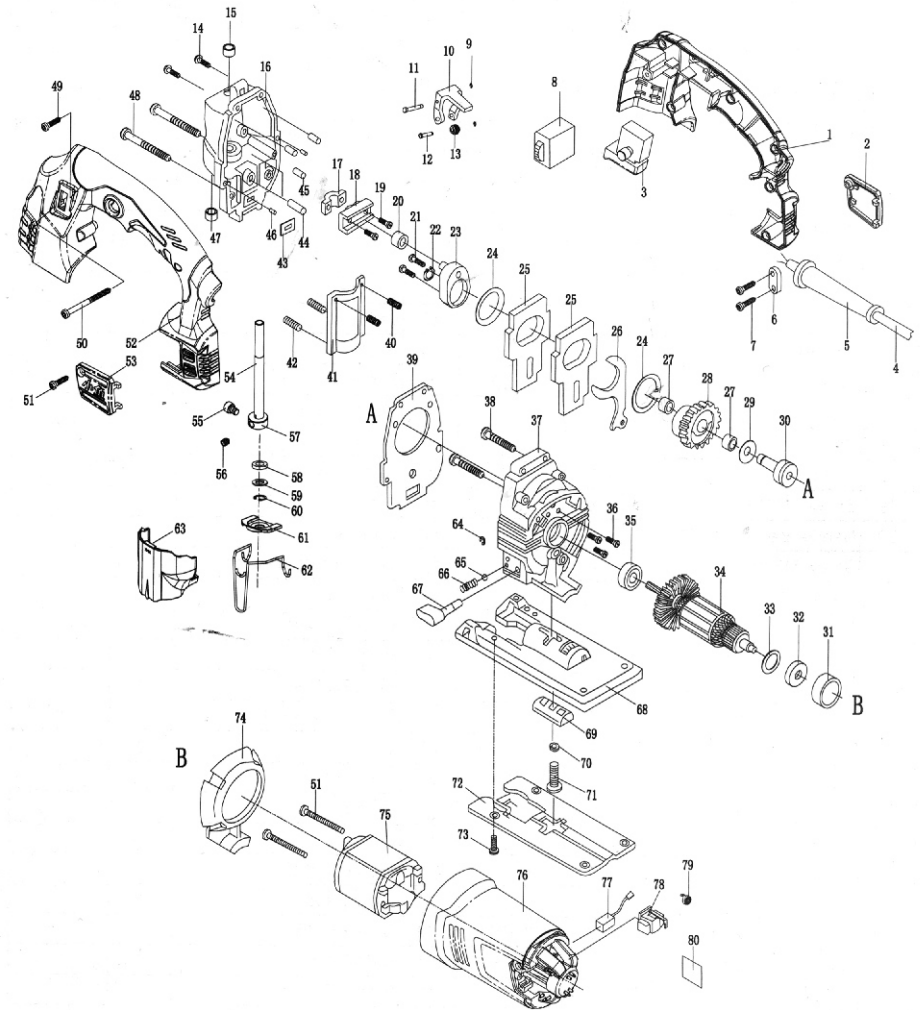
Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

While reading the operating instructions, unfold the graphics page for the machine and leave it open.

Intended Use

The machine is intended for making separating cuts and cutouts in wood, plastic, metal, ceramic plates and rubber while resting firmly on the workpiece. It is suitable for straight and curved cuts with mitre angles to 45°. The saw blade recommendations are to be observed.

PM60JGE JIG SAW



saw materials that produce a lot of dust from below or overhead.
 In extreme conditions, always use dust extraction as far as possible.
 Blow out ventilation slots frequently and install a residual current device (RCD). When working metals, conductive dust can settle in the interior of the power tool. The total insulation of the power tool can be impaired.
 Lubricate the guide roller occasionally with a drop of oil. Check the guide roller regularly.

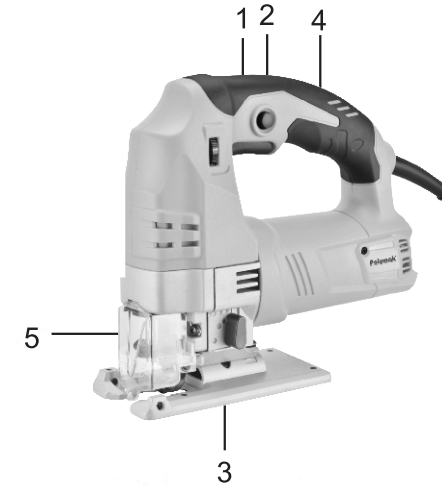
DISPOSAL



Do not dispose of power tools into household waste! According to the European Guideline 2002/96/EC for Waste Electrical and Electronic Equipment and its implementation into national right, power tools that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

Product Features

The numbering of the product features refers to the illustration of the machine on the graphics page.



- 1 On/Off switch
- 2 Lock-on button for On/Off switch
- 3 Base plate
- 4 Handle
- 5 Clamping lever for saw blade release

Technical Specification:

Jig Saw		
Voltage	V	220-230
Power	W	600
No load speed	min ⁻¹	500-3000
Mitre angle	°	45
Cutting capacity, max.		
- steel	mm	10
- Wood	mm	60
Weight	Kg	2.08
Protection class		II/II

Assembly

Before any work on the machine itself, pull the mains plug.

Replacing/Inserting the saw Blade

When mounting the saw blade, wear protective gloves, Danger of injury

When touching the saw blade.

Selecting a saw Blade

An overview of recommended saw blades can be found at the end of these instructions. Use only T-shank saw blades or saw blades with 1/4" universal Shank (U-shank). The saw blade should not be longer than required for the intended cut.

Use a thin saw blade for narrow curve cuts.

Inserting the Saw Blade

Clean the shank of the saw blade before inserting it. An unclean shank cannot be fastened securely.

If required, remove the dust cover. Loosen the saw blade holder nut. Insert the saw blade (teeth in cutting direction) to the stop into the saw blade holder and tighten the nut again.

While inserting the saw blade, pay attention that back of the saw blade is positioned in the groove of the guide roller.

Check the tight seating of the saw blade. A loose saw blade can fall out and lead to injuries.

Removing the Saw Blade

Loosen the saw blade holder nut and remove the saw blade.

If the saw blade is wedged or jammed when removing, set adjusting lever to maximum orbital action and press the saw blade holder lightly toward the front (max. 2 mm).

Dust Cover

Mount the dust cover before connecting the machine to the dust extraction.

Mount the dust cover onto the machine in such a manner that centre holder engages on the contact protector and the two outer holders engage in the openings on the casing.

Operation

Operation Modes

Before any work on the machine itself, pull the mains plug.

Adjusting the Cutting Angle

The base plate can be swivelled by 45° to the left or right for mitre cuts.

Loosen the screw and lightly slide the base plate toward the vacuum connection. For adjustment of precise mitre angles, the base plate has adjustment notches on the left and right at 0°, 30° and 45°. Swivel the base plate to the desired position according to the scale. Other mitre angles can be adjusted using a protractor.

Afterwards, push the base plate to the stop in the direction of the saw blade.

Tighten the screw again.

Starting Operation

Switching On and Off

To start the machine, press the On/Off switch and keep it pressed.

To lock the pressed On/Off switch, press the lock-on button.

To switch off the machine, release the On/Off switch or when it is locked with the lock-on button, briefly press the On/Off switch and then release it.

To save energy, only switch the power tool on when using it.

Working Advice

Before any work on the machine itself, pull the mains plug.

When working small or thin workpieces, always use a stable support or a saw station

Saw with moderate pressure in order to achieve optimal and precise cutting results.

For long and straight cuts in thick wood (>40 mm), the cutting line can become inaccurate. In this case, using a circular saw is recommended to achieve accurate cuts.

Plunge Cutting

Plunge cuts may only be applied to soft materials, such as wood, gypsum plaster boards, etc.!

Use only short saw blades for plunge cutting. Plunge cutting is possible only with the mitre angle set at 0°.

Place the machine with the front edge of the base plate on to the workpiece without the saw blade touching the workpiece and switch on. For machines with stroke rate control, select the maximum stroke rate. Firmly hold the machine against the workpiece and by tilting the machine, slowly plunge the saw blade into the workpiece.

When the base plate fully lays on the workpiece, continue sawing along the desired cutting line.

Coolant/Lubricant

When sawing metal, coolant/lubricant should be applied alongside cutting line because of the material heating up.

Maintenance and Cleaning

Before any work on the machine itself, pull the mains plug.

For safe and proper working, always keep the machine and ventilation slots clean.

Clean the saw blade holder regularly. For this, remove the saw blade from the machine and lightly tap out the machine on a level surface.

Heavy contamination of the machine can lead to malfunctions. Therefore, do not