

Polymak[®]

STRAIGHT GRINDER

125/150mm

INSTRUCTION MANUAL

Polymak[®]

Polymak Tools(India)Pvt .Ltd

186/187, P.H Road,Alsa Towers,Kilpauk,
Chennai – 600 010,

Tel. : 044-48631869

E-mail : info@polymak.co.in

Visit us at : www.polymak.co.in



Read and follow all safety precautions in instruction manual.

PMSG5 PMSG6 STRAIGHT GRINDER SPARE PARTS LIST

| No. | Partname | Unit | Qty | No. | Partname | Unit | Qty |
|-------|----------------------------|------|-----|-----|--------------------------|------|-----|
| 01 | NUT | pc | 1 | 26 | CYLINDRIC PIN | pc | 1 |
| 02 | SPRING WASHER | pc | 1 | 27 | SQUARE KEY | pc | 1 |
| 03 | OUTER FLANGE | pc | 1 | 28 | HANDLE (RIGHT) | pc | 1 |
| 04 | PAPER WASHER | pc | 2 | 29 | MOROR HOUSING | pc | 1 |
| 05 | PLASTIC TUBE (SMALL) | pc | 1 | 30 | STATOR | pc | 1 |
| 06 | WHEEL | pc | 1 | 31 | BAFFLE PLATE | pc | 1 |
| 07 | INNER FLANGE | pc | 1 | 32 | BALL BEARING 608-2Z | pc | 1 |
| 08 | SPINDLE SLEEVE | pc | 1 | 33 | INSULATION WASHER | pc | 1 |
| 09 | RETAINING BEARING COVER | pc | 1 | 34 | ARMATURE | pc | 1 |
| 10 | BALL BEARING | pc | 1 | 35 | CROSS TAPPING HEAD SCREW | pc | 2 |
| 11 | SCREW | pc | 7 | 37 | CROSS HEX SCREW | pc | 2 |
| 12 | RETAINING BEARING COVER | pc | 1 | 38 | NAMEPLATE | pc | 1 |
| 13 | BALL BEARING 6201-2Z | pc | 1 | 39 | BRUSH HOLDER | pc | 2 |
| 14 | MIDDLE COVER | pc | 1 | 40 | CARBON BRUSH | pc | 2 |
| 15 | SHAFT RETAINING RING | pc | 1 | 41 | BRUSH HOLDER CAP | pc | 2 |
| 16 | GEAR | pc | 1 | 42 | LABEL | pc | 2 |
| 17 | WASHER FOR THE HOLE | pc | 1 | 43 | QUADRAT | pc | 1 |
| 18 | SPINDLE | pc | 1 | 44 | SWITCH | pc | 1 |
| 19 | HEAD CASE | pc | 1 | 45 | CORD GUARD | pc | 1 |
| 20 | PRESSURE PLATE WITH BUTTON | pc | 1 | 46 | CORD | pc | 1 |
| 21 | FLYING RINGS | pc | 1 | 47 | STRAIN RELIEF | pc | 1 |
| 22 | SCREW | pc | 2 | 48 | TAPPING SCREW | pc | 2 |
| 23 | NUT | pc | 2 | 49 | HANDLE (LEFT) | pc | 1 |
| 24/36 | WHEEL GUARD | pc | 1 | 50 | TAPPING SCREW | pc | 4 |
| 25 | SCREW | pc | 4 | | | | |

SPECIFICATIONS:

| Model | PMSG5 PMSG6 |
|-------------------------|--|
| Rated voltage/Frequency | 220V/50HZ |
| Input Power | 950W |
| No Load speed | 5000r/min |
| Wheel Dimension | 125mm/150mm |
| Gross /Net weight | |
| Accessories | Carbon brush 1pcs Wrench 2Pcs; Plastic tube 1pcs; Paper liner 2pcs; Operation Manual 1pcs ,service book 1pcs |

. Manufacturer reserves the right to change specifications without notice.

. Specifications may differ from country to country.

GENERAL SAFETY RULES

(For All Tools)

WARNING:

Read and understand all instructions. Failure to follow all instructions listed below, may result in electric shock, fire and / or serious personal injury.

SAVE THESE INSTRUCTIONS

Work Area

1. Keep your work area clean and well it.

Cluttered benches and dark areas invite accidents.

2. 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.

3. Keep bystanders, children, and visitors away while operating a power tool. Distractions can cause you to lose control.

ELECTRICAL SAFETY

4. Power tool plugs must match the outlet.

Never modify the plugs in any way .Do not use any adapter plugs with earthed power tools. Unmodified plugs and matching outlets will reduce risk of electric shock. Do not change the plug in any way. Double insulation eliminates the need for the three wire grounded power cord and grounded power supply system.

5. Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. These is a increased risk of electric shock if your body is grounded.

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

7. Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cord increase the risk of electric shock.

8. When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W". These cords are rated for outdoor use and reduce the risk of electric shock.

PERSONAL SAFETY

9. Stay alert, watch what you are doing and use common sense when operating a power

tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.

10. Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

11. Avoid accidental starting. Be sure switch is off before plugging in. Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.

12. Remove adjusting keys or wrenches before turning the tool on. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.

13. Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.

14. Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions. Ordinary eye or sun glasses are NOT eye protection.

TOOL USE AND CARE

15. Use clamps or other practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.

16. Do not force tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.

17. Do not use tool if switch does not turn it on or off. Any tool that cannot be controlled with

the switch is dangerous and must be repaired.

18. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.

19. Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.

20. Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.

21. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tools operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.

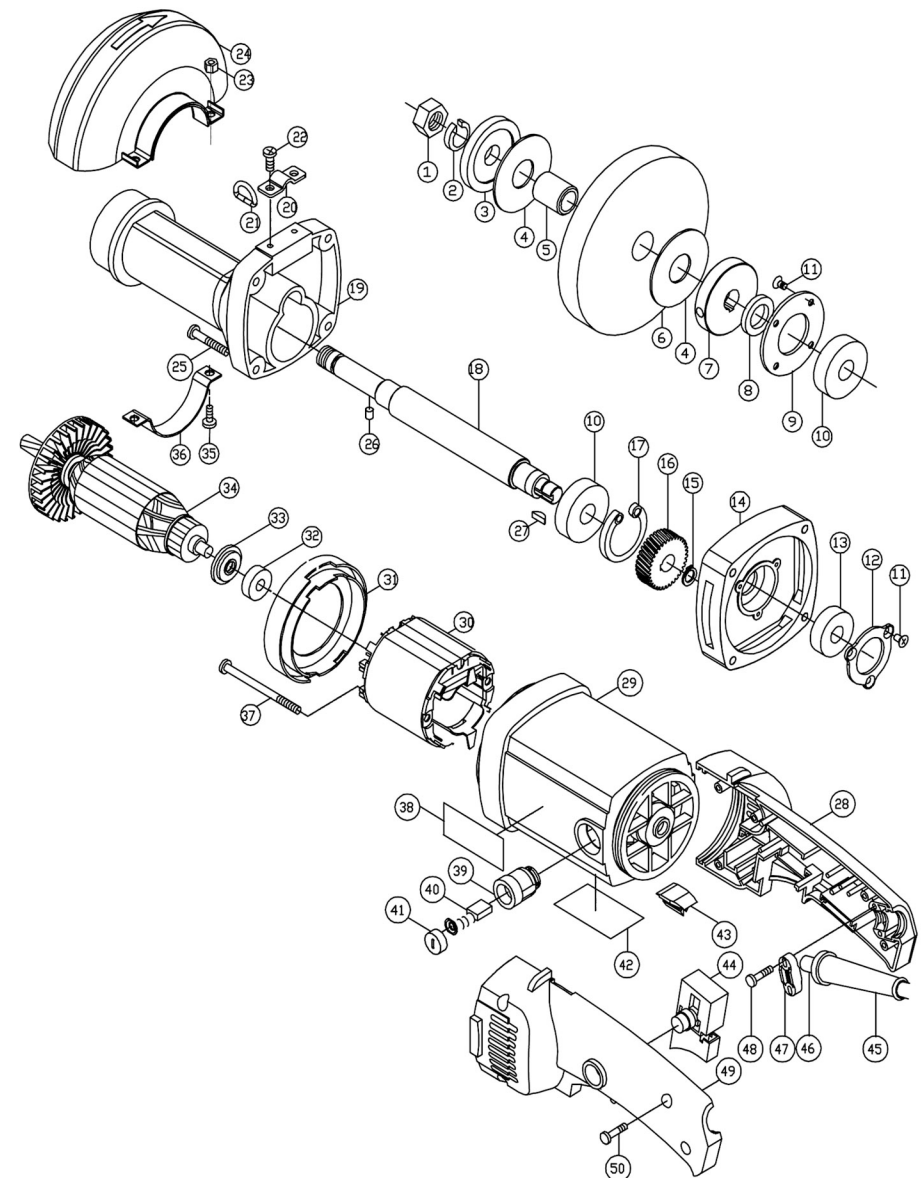
22. Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool, may become hazardous when used on another tool.

SERVICE

23. Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.

24. When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of the manual. Use of unauthorized parts or failure to follow Maintenance instructions may create a risk of electric shock or injury.

PMSG5 PMSG6 STRAIGHT GRINDER ASSEMBLY VIEW



SPECIFIC SAFETY RULES

DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to vertical grinder safety rules. If you use this tool unsafely or incorrectly, you can suffer serious personal injury.

1. Always use proper guard with grinding wheel. A guard protects operator from broken wheel fragments.

2. Accessories must be rated for at least the speed recommended on the tool warning label. Wheels and other accessories running over rated speed

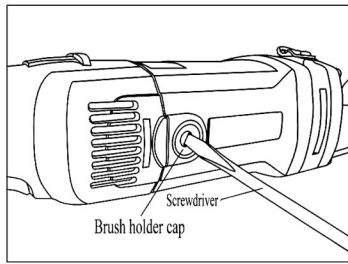


Fig6

◆ **Replacing carbon brushes.**

1. Remove and check the carbon brushes regularly. Replace when the tool occurs obvious sparks or wear down to the limit mark.
2. Both carbon brushes should be replaced at the same time. Use only brushes provided.
3. Use a screwdriver to remove the brush holder caps. Take out the worn carbon brushes, insert the new ones and secure the brush holder caps (Fig6)

△CAUTION:

Be sure to re-install the knob after inserting new carbon brush.

After replacing brushes, plug in the tool and break in brushes by running tool with no load for about 10 minutes. Then check the tool while running, when releasing the switch trigger. If the tool is not working well, ask your local service center for repair.

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Authorized or Factory service centers, always using replacement parts.

■ **Maintenance & Daily Care .**

△CAUTION:

Always be sure that the tool is switch off and unplugging before attempting to perform inspection and maintenance.

1. The tool and its air vents have to be keep clean, regularly clean the tool's air vents or whenever the vents start to become obstructed
2. Check the all screws if be loosened or not periodically
3. Check the cord insulation if broken or not.

can fly apart and cause injury. In addition, all the accessories outer dimension and thickness must be rated, NOT True accessories dimension cannot be protected & controlled enough by user.

3. Hold tool by insulated gripping surfaces when performing and operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
4. Always use safety glasses or goggles. Ordinary eye or sun glasses are NOT safety glasses,.
5. Check the wheel carefully for cracks or damaged before operation. Replace cracked or damaged wheel immediately. Run the tool at no load for about a minute, holding tool away from others. If wheel is flawed, it will likely separate during this test.
6. Hold the tool firmly.
7. Keep hands away from rotating parts.
8. Always be sure you have a firm footing. Be sure no one is below when using the tool in high locations.
9. Do not use water or grinding lubricant. Do not use this tool as cutter
10. Not recommended use this tool for sanding, polishing, or cutting operation etc. Maybe result in dangerous or serious injury when you operating.
10. Keep cord away from the rotating parts, if don't control well the cord will be cut or wrapped so that avoid your hand and arms entangling the rotating parts.

11. Make sure the tool is switched off when taking it by myself. Accidentally touch the rotating parts maybe result in the clothes be wrapped or user be wounded.
 12. Before using the tool on an actual workpiece, let it run for a while. Make sure the wheel, flange, liner if are fit well with the spindle or not, watch for vibration or wobbling that could indicate poor installation or a poorly balanced wheel.
 13. Watch out for flying sparks. Hold the tool so that sparks fly away from you and other persons or flammable materials.
 14. Do not leave the tool running. Operate the tool only when hand-held.
 15. Do not touch the workpiece immediately after operation; it may be extremely hot and could burn your skin.
 16. ALWAYS wear proper apparel including long sleeve shirts, leather gloves and shop aprons to protect skin from contact with hot grindings.
 17. Use of this tool to grind or sand some products. Paints and wood could expose user to dust containing hazardous substances. Use appropriate respiratory protection.
 18. Usually clean the intake of tool, much more metal powder accumulation will result in electric dangerous.
- Note: The "I" style wheel is better for the circle grinding, you should change a new wheel when the wheel's diameter is less than 80mm, and the rated wheel's velocity must exceed 50m/s.

SAVE THESE INSTRUCTIONS

WARNING:

MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

SYMBOLS

The following show the symbols used for the tool.

V-----voltage

A-----ampere

Hz-----hertz

n_o ----- no load speed.

--/min----- revolutions or reciprocation per minute

□ -----class II construction

FUNCTIONAL DESCRIPTION

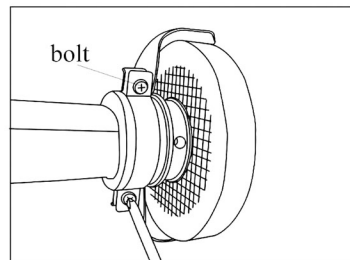


Fig 1

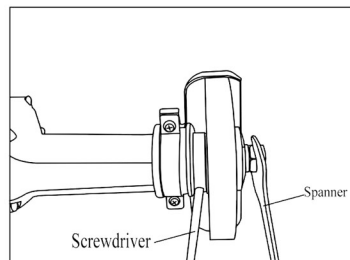


Fig2

■ Operation instruction

◆ Installing or removing wheel guard(Fig1)

1. To install the wheel guard, link the wheel guard with wheel guard hoop by the bolt and put it onto the gearbox, and then tighten the two screws.
2. Loose the both screws and can remove the wheel guard.

◆ Installing or removing wheel

△Caution:

•Always be sure that the tool is switched off and unplugged before installing or removing the wheel.

1. To remove the wheel, insert a thin & long hard stick (such as screwdriver) into the side of inner flange and hold it, and then use the open spanner to loose the nut counterclockwise.(Fig2)
2. To install the wheel, first remove the wheel guard and put the paper liner、wheel、paper liner、mounting flange、spring washer、 and nut onto the spindle, and then insert a thin & long hard stick(such as screwdriver) into the side of inner flange and must hold it, finally you can tighten the nut clockwise and install the wheel guard.(Fig3)

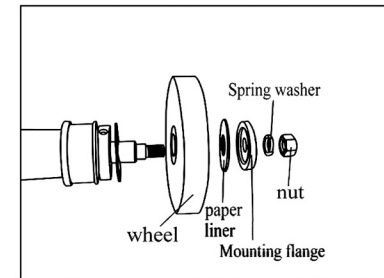


Fig3

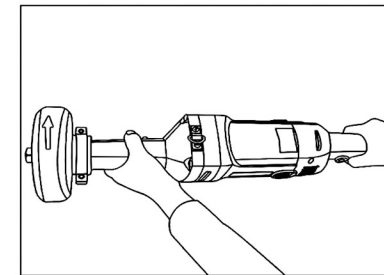


Fig4

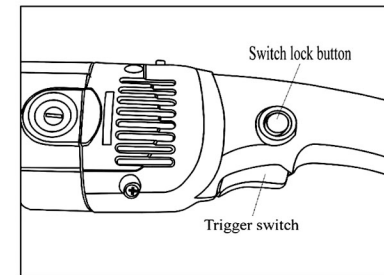


Fig5

◆Holding tool

Must hold the handle of tool by one hand and the other hand hold the long neck part of tool when operation. Only this way you can control the tool well.(Fig4)

◆ Switch action

△Caution:

•Before plugging in the tool, always check to see that the lever switch actuates properly and returns to the “OFF” position

- Switch can be locked in “ON” position for ease of operator comfort during extended use. Apply caution when locking tool in “ON” position and maintain firm grasp on tool.

To start the tool, simply pull the switch trigger and release the trigger to stop.

For continuous running, pull the switch trigger and depress the lock button. Release the trigger to stop slowly when the lock button be come back to the original position. (Fig5)

◆ Effective and safe for Grinding

1. When grinding, should contact the workpiece first before starting the tool. Should take away the workpiece first before turning off the tool when finish work.
2. Must use the wheel’s outer circle to grind.
3. Don’t allow to force much more pressure on the workpiece and wheel or impacted each other when operating the tool. Should give some pressure on the workpiece and wheel gradually ,avoid the wheel being cracked so that result in serious accident.
4. In general, should choose the softer wheel when you are grinding the harder workpiece, in reverse should choose the harder wheel when you are grinding the softer workpiece.