

Polymak[®]

25MM DIE GRINDER

INSTRUCTION MANUAL

Polymak[®]

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Read and follow all safety precautions in instruction manual.

SPECIFICATIONS:

Model	PMDG6N
Rated voltage/Frequency	220V/50HZ~60HZ
Input Power	520W
No Load speed	26000/min
Max. wheel point diameter	∅ 25mm; collet size: 6mm
Gross /Net weight	2.1KG/1.9KG
Accessories	Carbon brush 2pcs Opening Wrench 2Pcs Operation Manual 1pc service book 1pc

. 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**

- keep your work area clean and well it.**
Cluttered benches and dark areas invite accidents.
- 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.
- Keep bystanders, children, and visitors away while operating a power tool.**
Distractions can cause you to lose control.

ELECTRICAL SAFETY

- 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.

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

- 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.

PARTS LIST OF THE MOD.PMDG6N

No.	Part name	Unit	QTY	No.	Part name	Unit	QTY
1	COLLET	pc	1	38	STRAIN RELIEF	pc	1
2	FILLER SLEEVE	pc	1	39	SWITCH	pc	1
3	ANTI-DUST COVER	pc	1	40	ANTI-DUST SLEEVE FOR SWITCH	pc	1
4	SOFT LEATHER SLEEVE	pc	1	41	POWER CORD 2X0.75mm2	pc	1
5	HEAD CASE	pc	1	42	REAR COVER	pc	1
6	TAPPING SCREW ST5*30	pc	4	43	CORD GUARD	pc	1
7	O RING $\phi 23.3 \times \phi 2$	pc	1	44	WRENCH	pc	2
8	O RING $\phi 25.3 \times \phi 2$	pc	1				
9	SPINDLE	pc	1				
10	BEARING 6901	pc	1				
11	SHAFT SEPARATIGN RING $\phi 12$	pc	1				
12	BEARING 6000	pc	1				
13	WAVE WASHER $\phi 26$	pc	1				
14	BORE SEPARATING RING FOR $\phi 26$	pc	1				
15	CONNECT SLEEVE	pc	1				
16	SPRING	pc	1				
17	MIDDLE COVER	pc	1				
18	BEARING 608	pc	1				
19	BORE SEPARATING RING FOR $\phi 22$	pc	1				
20	ARMATURE	pc	1				
21	INSULATION WASHER	pc	1				
22	BEARING 606	pc	1				
23	BEARING BUSH	pc	1				
24	BUFFLE PLATE	pc	1				
25	TAPPING SCREW ST4.2*70	pc	2				
26	PRESSING BLOCK FOR STATOR	pc	2				
27	STATOR	pc	1				
28	TENSION SPRING	pc	2				
29	PLASTIC HOUSING	pc	1				
30	LABEL	pc	1				
31	BRUSH HOLDER	pc	2				
32	CARBON BRUSH	pc	2				
33	CARBON BRUSH CAP	pc	2				
34	CAPACITOR	pc	1				
35	INDUCTOR	pc	1				
36	TERMINAL BLOCK	pc	1				
37	TAPPING SCREW ST4X16	pc	3				

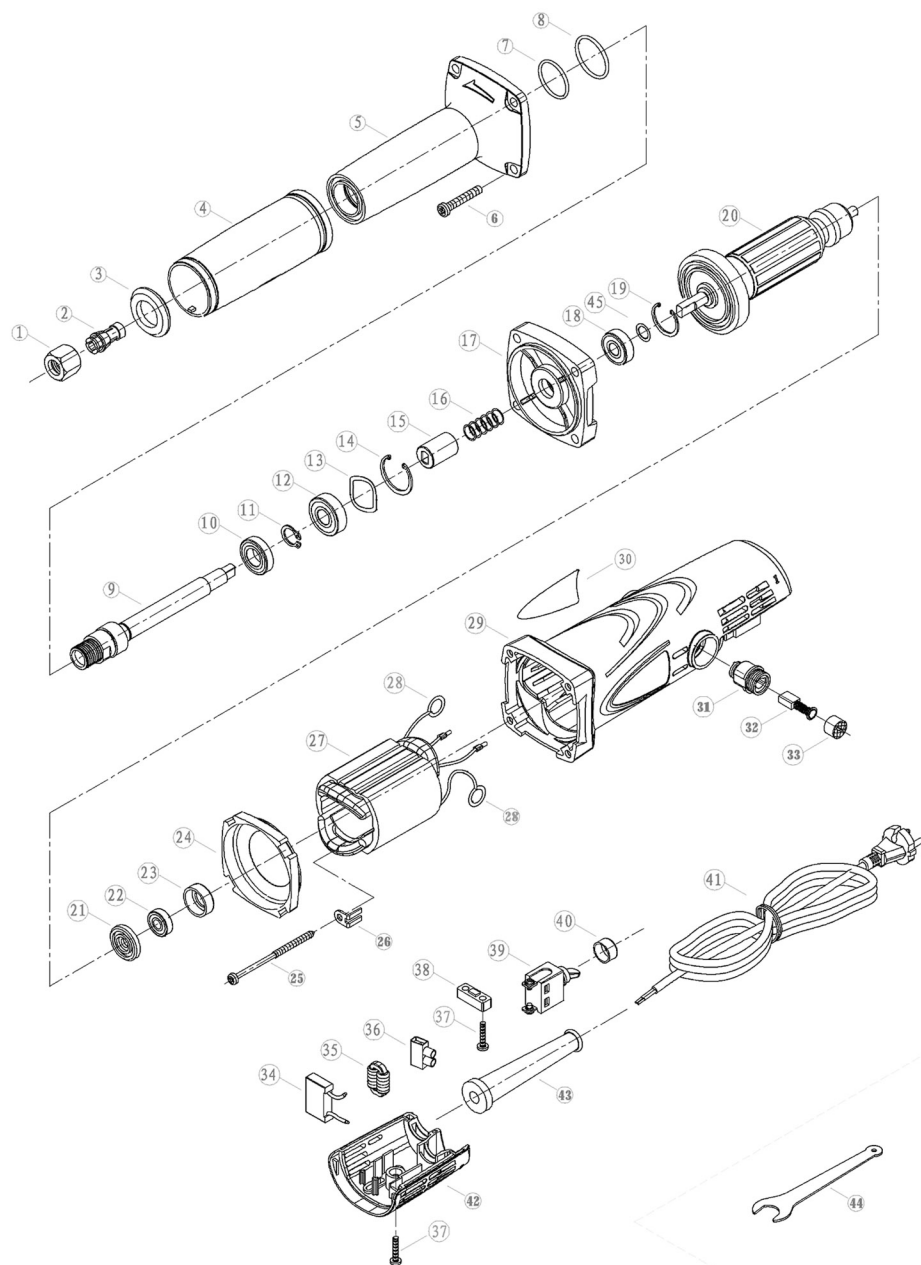
SPECIFIC SAFTETY RULES

DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to 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 can

ASSEMBLY VIEW OF THE MOD. PMDG6N



Fly apart and cause injury.

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. **Make sure the wheel is not contacting the workpiece before the switch is turned on.**

11. **Before using the tool on an actual workpiece, let it run for a while. Watch for vibration or wobbling that could indicate poor installation or a poorly balanced wheel.**

12 **Watch out for flying sparks. Hold the tool so that sparks fly away from you and other persons or flammable materials.**

13. **Do not leave the tool running. Operate the tool only when hand-held.**

14. **Do not touch the workpiece immediately after operation; it may be extremely hot and could burn your skin.**

15. **ALWAYS wear proper apparel including long sleeve shirts, leather gloves and shop aprons to protect skin from contact with hot grindings.**

16. **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.**

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

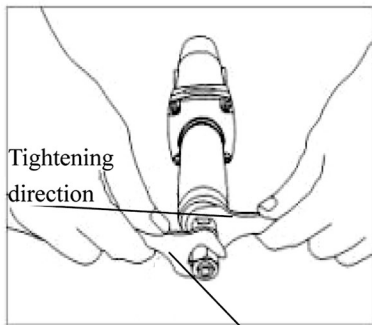


Fig 1 Loosing direction

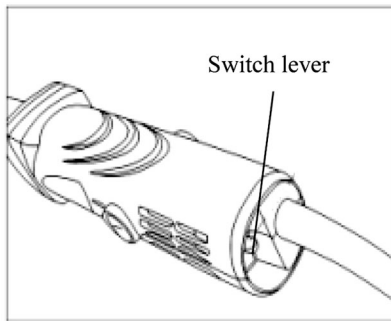


Fig2

◆ Effective and safe for Grinding

1. To improve the grinding efficiency, should choose different hardness and granularity wheel point for different workpiece.
2. The outer dimension of wheel point must less than 25mm.
3. Apply light pressure on the tool. Excessive pressure on the tool will only cause a poor finish and overloading of the motor.
4. The wheel point could be trimmed by diamond pen in grinding machine and lathe.

■ Operation instruction

◆ Installing or removing wheel point(Fig1)

△Caution:

- Always be sure that the tool is switched off and unplugged before installing or removing the wheel point.
- Don't rotate the collet nut before inserting the wheel point, or the collet cone of inner collet nut will be damaged.

1. Loosen the collet nut and insert the wheel point into the collet nut. Use the smaller wrench to hold the spindle and the larger one to tighten the collet nut securely.
2. The wheel point should not be mounted more than 8 mm (5/16") from the collet nut. Exceeding this distance could cause vibration or a broken shaft.
3. To remove the wheel point, follow the installation procedure in reverse.

◆ Switch action(Fig2)

△Caution:

- Before plugging in the tool, always check to see that the lever switch actuates properly and returns to the "OFF" position when the rear of the lever switch is pulled out.
- 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, pull out the switch lever toward the "I(ON)" position and can continue to run.

To stop the tool, pull out the switch lever toward "0(OFF)" position. (Fig2)

■ Maintenance & Daily Check.

△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 screws if be loosened or not.
3. Check the cord insulation if broken or not.

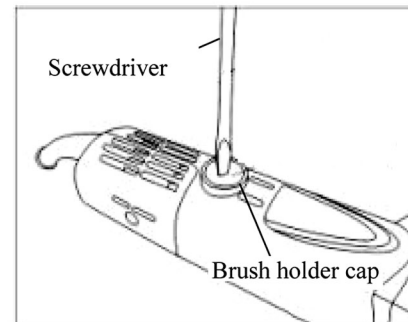


Fig3

◆ Replacing carbon brushes.

1. Remove and check the carbon brushes regularly. Replace when the tool occur obvious sparks or wear down to the limit mark.
2. Both carbon brushes should be replaced at the same time. Use only PROFIELD 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 (Fig3)

△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 PROFIELD service center for repair.

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