

# Polymak

## DEMOLITION HAMMER

### PMDH11E-DY

#### INSTRUCTION MANUAL

# Polymak

**Polymak Tools(India)Pvt.Ltd**

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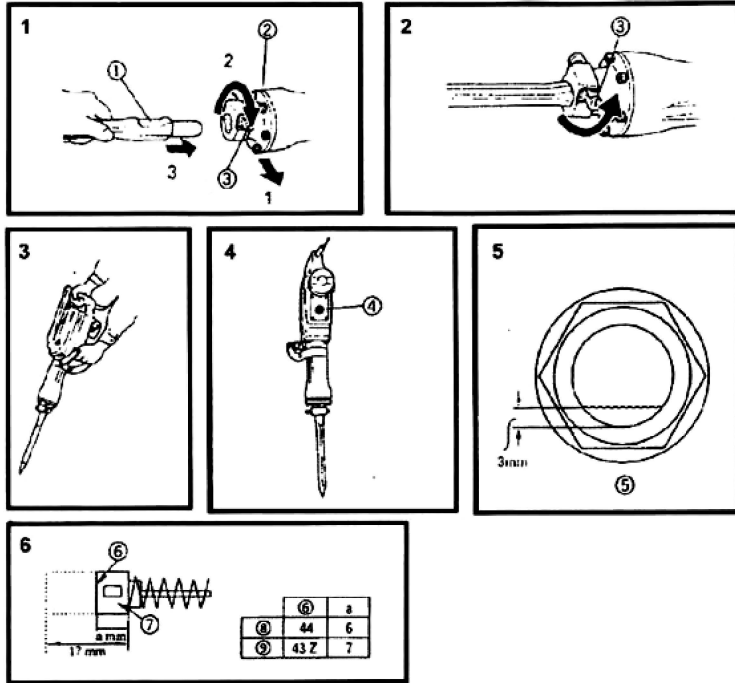
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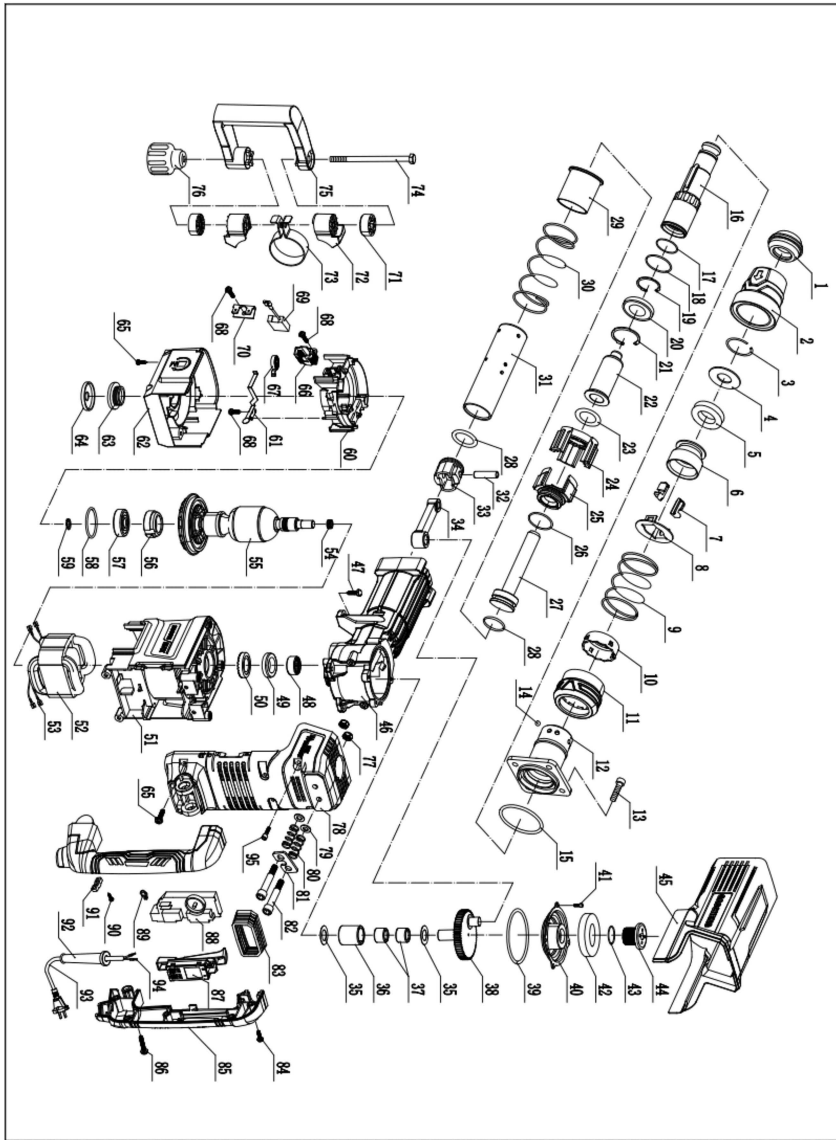
Read and follow all safety precautions in instruction manual



|   | English  |
|---|--|
| ① | Hold the tool with its flatted part directed upward            |
| ② | Front cover  |
| ③ | Stop lever   |
| ④ | Oil gauge, Check the oil quantity by holding the body upright  |
| ⑤ | Resupply oil when the oil level drops to less than approx. 3mm |
| ⑥ | Wear limit   |
| ⑦ | NO. of carbon brush  |
| ⑧ | Usual carbon brush   |
| ⑨ | Auto-stop carbon brush   |

| NO. | PART NAME                                | QTY | NO. | PART NAME                                       | QTY |
|-----|--|-----|-----|---|-----|
| 1   | Rubber dust cap                          | 1   | 49  | Gearbox skeleton oil seal                       | 1   |
| 2   | 11E Steel ball rack                      | 1   | 50  | Wool ring with iron                             | 1   |
| 3   | Swivel wire spring                       | 1   | 51  | 11E chassis                                     | 1   |
| 4   | gasket                                   | 1   | 52  | 11E stator                                      | 1   |
| 5   | Damping ring                             | 1   | 53  | 6.3 Open sockets                                | 6   |
| 6   | Lock ring                                | 1   | 54  | Threaded oil baffle ring                        | 1   |
| 7   | gripper                                  | 2   | 55  | 11E rotor                                       | 1   |
| 8   | Transfer panel                           | 1   | 56  | Bearing block                                   | 1   |
| 9   | Steel ball rack spring                   | 1   | 57  | Bearing 6200RS                                  | 1   |
| 10  | Support ring                             | 1   | 58  | Screw seat type 0 ring                          | 1   |
| 11  | Locating sleeve                          | 1   | 59  | 10 shaft retaining ring                         | 1   |
| 12  | Metal tip                                | 1   | 60  | Carbon brush holder                             | 1   |
| 13  | M8*35 hexagon two combination            | 4   | 61  | Metal contact                                   | 1   |
| 14  | 6. 5 Steel balls                         | 8   | 62  | Rear cowl                                       | 1   |
| 15  | Iron head type 0 ring                    | 1   | 63  | Screw cap                                       | 1   |
| 16  | Swivel sleeve                            | 1   | 64  | 11E Base cover                                  | 1   |
| 17  | Turn inside 0 ring                       | 1   | 65  | Slotted pad self-tapping                        | 8   |
| 18  | Turn the outer 0 ring                    | 1   | 66  | 11E carbon brush holder                         | 1   |
| 19  | 40internal circlip plier                 | 1   | 67  | Coil scheduling                                 | 1   |
| 20  | Iron head skeleton oil seal              | 1   | 68  | The pointy head attacks itself                  | 5   |
| 21  | Stop ring for 42 holes                   | 1   | 69  | Carbon brush                                    | 1   |
| 22  | impactor                                 | 1   | 70  | 11E Metal pins                                  | 2   |
| 23  | Operation disk type 0 ring               | 1   | 71  | 11E adjusting wheel                             | 2   |
| 24  | 11E Operation disk                       | 1   | 72  | 11E Clamping block                              | 2   |
| 25  | 11E spacing sleeve (including clamp)     | 1   | 73  | 11E Hoop  | 1   |
| 26  | Range sleeve type 0 ring                 | 1   | 74  | Outer hexagon bolt                              | 1   |
| 27  | rammer                                   | 1   | 75  | Return handle                                   | 1   |
| 28  | Piston/sub-hammer type 0 ring            | 2   | 76  | Hand wheel (including M8 nut)                   | 1   |
| 29  | Control sleeve                           | 1   | 77  | Outer hexagon lock nut M8                       | 2   |
| 30  | Control sleeve spring                    | 1   | 78  | 11E Handle seat                                 | 1   |
| 31  | Air cylinder                             | 1   | 79  | gasket  | 2   |
| 32  | Piston pin                               | 1   | 80  | Damping spring A                                | 2   |
| 33  | 11E Piston                               | 1   | 81  | Damping gasket                                  | 1   |
| 34  | 11E connecting rod (including clamp)     | 1   | 82  | Hex socket M8*43 shock absorbing screws         | 2   |
| 35  | gasket                                   | 2   | 83  | Handle shock absorber sleeve                    | 1   |
| 36  | Needle roller bearing sleeve             | 1   | 84  | Slot self-attack                                | 5   |
| 37  | Needle roller bearing                    | 2   | 85  | Switch handle (left and right) with adhesive    | 1   |
| 38  | Eccentric gear                           | 1   | 86  | Slot self-attack                                | 1   |
| 39  | Iron oil cover type 0 ring               | 1   | 87  | Switch  | 1   |
| 40  | Iron fuel tank cap                       | 1   | 88  | Constant power governor                         | 1   |
| 41  | Hexagonal two combination                | 4   | 89  | Pilot lamp                                      | 1   |
| 42  | Wool felt ring                           | 1   | 90  | The pointy head attacks itself                  | 2   |
| 43  | Oil cap type 0 ring                      | 1   | 91  | Cable ramp                                      | 1   |
| 44  | 11E Oil cap                              | 1   | 92  | Cable sheath (Deshi 45MA)                       | 1   |
| 45  | Plastic front barrel cover               | 1   | 93  | Cable line                                      | 1   |
| 46  | 11E Gear box                             | 1   | 94  | U-shaped I-button                               | 2   |
| 47  | Outer hexagonal pointed head self-attack | 4   | 95  | Cross three combination screw M6*25 three combi | 2   |
| 48  | Needle roller bearing                    | 1   |     |   |     |

## Exploded view for PMDH11E-DY



## GENERAL OPERATIONAL PRECAUTIONS

1. Keep work area clean. Cluttered areas and benches invite injuries.
2. Consider work area environment. Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep work area well lit. Don't use tool in presence of flammable liquids or gases.  
Power tools produce sparks during operation. They also spark when switching ON/OFF.  
Never use power tools in dangerous sites containing lacquer, paint, benzene, thinner, gasoline, gases, adhesive agents, and other materials which are combustible or explosive.
3. Guard against electric shock. Prevent body contact with grounded surfaces. For example: pipes, radiators, ranges, refrigerator enclosures.
4. Keep children away. Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.
5. Store idle tools. When not in use. Tools should be stored in dry and high or locked-up place out of reach of children.
6. Don't force tool. It will do the job better and safer at the rate for which it was intended.
7. Use right tool. Don't force small tool or attachment to do the job of a heavy-duty tool. Don't use circular saw for cutting tree limbs or logs.
8. Dress properly. Don't wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
9. Use safety glasses. Also use face or dust mask if cutting operation is dusty.
10. Don't abuse cord. Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat. Oil receptacle. Keep cord from heat. Oil and sharp edges.
11. Secure work. Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
12. Don't overreach. Keep proper footing and balance at all times.
13. Maintain tools with care. Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing

accessories. Inspect tool cords periodically and if damaged. Have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry. Clean and free from oil and grease.

14. Disconnect tools. When not in use. Before servicing. And when changing accessories. Such as blades. Bits. Cutters.
15. Remove adjusting keys and wrenches. From habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
16. Avoid unintentional starting. Don't carry plugged-in tool with finger on switch. Be sure switch is off when plugging in.
17. Outdoor use extension cords. When tool is used outdoors. Use only extension cords intended for use outdoors and so marked.
18. Stay alert. Watch what you are doing. Use common sense. Do not operate tool when you are tired.
19. Check damaged parts. Before further use of the tool. A guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts. Binding of moving parts, breakage of parts, mounting. And any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center, Do not use tool if switch does not turn it on and off.
20. Do not use power tools for applications other than those specified in the Handling Instructions
21. To ensure the designed operational integrity of power tools. Do not remove installed covers or screws.
22. Do not touch movable parts or accessories unless the power source has been disconnected.
23. Use your tools at lower input than specified on the nameplate: otherwise. The finish may be spoiled and working efficiency reduced due to motor overload.

3. Check the oil level once daily, confirming that oil is filled
4. After feeding oil, securely clamp the oil gauge .

**Note:** As an optional accessory, Oil for the Electric Hammer (one liter) is sold separately. Use this oil when oil in the tank is depleted. Shell Oil Co ROTELLA #40 (engine oil) can also be used. This oil is sold as shell filling stations most anywhere.

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## MAINTENANCE AND INSPECTION

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### 1. inspecting the tool

Since use of a dull tool will cause motor malfunctioning and degraded efficiency. When it or replace with a new one without delay when abrasion is noted.

### 2. Inspecting the mounting screws

Regularly inspect all mounting screws and ensure that they are properly tightened. Should any of the screws be loose. Retighten them immediately. Failure to do so could result in serious hazard.

### 3. Maintenance of the motor

The motor unit winding is the very " heart " of the power tool . Exercise due care to ensure the winding does not become damaged and/or wet with oil or water

### 4. Inspecting the carbon brushes (Picture.6)

The motor employs carbon brushes which are consumable parts. When they become worn to or near " wear limit " .It could result in motor trouble. When an auto-stop carbon brush is equipped. The motor will stop automatically. At that time. Replace both carbon brushes with new ones which have the same carbon brush ones. shown in the figure. In addition. Always keep carbon brushes clean and ensure that they slide freely within the brush holders. Replacement steps. The carbon brush can be removed by removing the cap cover. Cap rubber and brush cap in that order at the interior.

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### **Note:**

Due to continuing program of research and development. The specifications herein are subject to change without prior notice.

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- (1) Rotate the stop lever 180° in a clockwise direction while pulling it toward you. Next, insert the tool shank into the hexagonal hole on the front cover. **(Picture.1)**
  - (2) Clamp the tool by turning the stop lever half a turn in the opposite direction. **(Picture.2)**
- (note) When removing the tool, follow the above procedure in reverse order.

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#### HOW TO USE THE HAMMER (Picture 3)

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1. After placing the tip of the tool in the base hold switch ON.  
In some cases, it is necessary to punch the tip of the bit against the crushing position forcibly in order to begin the striking stroke.  
This is not due to malfunction of the tool. It means that the safe guard mechanism against no-load striking is working.
2. By utilizing the weight of the machine and by firmly holding the hammer with both hands, one can effectively control the subsequent recoil motion.  
Proceed at a moderate work-rate. The use of too much force will impair efficiency.

**Caution:** Sometimes the tool does not begin the striking stroke even when the motor rotates because the oil has become thick. If the tool is used at low temperatures or if it is used after a long time idle, the tool should be used running in for five minutes in order to warm it up.

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#### OIL FEEDING

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**Caution:** Prior to oil feeding, always disconnect the plug from the power supply receptacle. Since an oil chamber is built in this Electric Hammer, it can be used for approximately 20 days without supplying lubricating oil, assuming that the Hammer is used continuously 3~4 hours daily. Feed oil into the oil tank as described below before using this Hammer. **(see Picture. 4 and 5)**

1. Just before no oil is visible in the oil gauge window when the device is held upright, feed oil without fail.
2. Before feeding oil, use the provided wrench to remove the oil gauge. **Be careful not to lose the rubber packing attached below the oil gauge.**

24. Do not wipe plastic parts with solvent. Solvents such as gasoline, thinner, benzene, carbon tetrachloride, alcohol, ammonia, and oil containing chloric annex may damage and crack plastic parts. Do not wipe them with such solvent. Wipe plastic parts with a soft cloth lightly dampened with soapy water.
25. Consult an authorized Service Agent in the event of power tool failure.
26. Use only original replacement parts.
27. This tool should only be disassembled for replacement of carbon brushes.

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#### PRECAUTIONS ON USING HAMMER

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1. Wear protective glasses to protect your eyes.
2. Wear a mask when turning your head upward.
3. Use earplugs to keep your ears noise-free while working.
4. Properly set the bit holder.
5. Since the bit becomes very hot during operation, exercise extremes very hot.
6. Be sure to use side handle.
7. Safe operation depends on one's stable posture.
8. At the start of work, confirm the oil supply and screw tightening.
9. When working at a highly elevated location, pay attention to articles and persons below.
10. Before starting breaking or chipping a wall, floor, or ceiling, thoroughly confirm that no items such as an electric cable or conduit are buried inside.
11. Wear protective shoes to protect your feet.

## SPECIFICATIONS

|                       |             |
|-----------------------|-------------|
| Voltage(by areas)     | 220V~50Hz   |
| Input                 | 2600W       |
| Full-load Impact Rate | 0-2000r/min |

Be sure to check the nameplate on product at it is subject to change by areas.

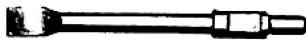
## STANDARD ACCESSORIES

- (1) Steel Case.....1
- (2).Bull Point(Total Length 410mm)····1
- (3) Oil Feeder.....1
- (4) Hexagon Bar Wrench.....2
- (5) Wrench.....1

Standard accessories are subject to change without notice.

## OPTIONAL ACCESSORIES(sold separately)

◎ Cutter (for crushing asphalt)



Total length: 410mm  
Width: 75mm

◎ Cold Chisel (for grooving and squaring)



Total length: 410mm  
Width: 75mm

◎ Electric Hammer Oil (one liter)

Optional accessories are subject to change without notice.

## APPLICATIONS

◎Crushing concrete. Chipping. Digging. and squaring.

(Application Examples):

Installation of piping and wiring. Sanitary facility installation. Machinery installation. Water supply and drainage work. Interior jobs. Harbor facilities and other civil engineering work.

## PRIOR TO OPERATION

### 1. Power source

Ensure that the power source to be utilized conforms to the power requirements specified on the product nameplate.

### 2. Grounding

This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with a three conductor cord and grounding type plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal.

### 3. Power switch

Ensure that the power switch is in the OFF position. If the plug is connected to a power receptacle while the power switch is in the ON position. The power tool will start operating immediately. Inviting serious accident.

### 4. Extension cord

When the work area is removed from the power source. Use an extension cord of sufficient thickness and rated capacity. The extension cord should be kept as short as practicable.

### 5. Feeding oil (refer to the paragraph on oil feeding)

Prior to using the power tool. Remove the oil gauge and do not fail the oil tank with the provided oil. (Although the oil tank is built in. it contains only a small volume of oil when shipped from the works)

### 6. Mounting a tool

**Note:** When handling bull point. Cold chisel and other accessories. Standard tools are recommended for better operation.