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Dreyoo 40-80 PSI Water Pump Pressure Switch Assembly

Dreyoo 40-80 PSI Water Pump Pressure Switch Assembly User Manual

Model: 40-80 PSI Water Pump Pressure Switch Assembly

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Dreyoo 40-80 PSI Water Pump Pressure Switch Assembly. Please read these instructions carefully before use and retain them for future reference.

The Dreyoo pressure switch is designed to automatically control water pumps by starting and stopping them based on water pressure. It is compatible with various water pump brands and supports multiple voltage systems (12V, 24V, 110V, 115V).

Note: This product is not suitable for drinking water delivery systems.

2. Package Contents

Verify that all components are present in the package:

- 1 x Pump Pressure Switch
- 1 x Pressure Sensing Diaphragm

3. Specifications

Feature	Description
Brand	Dreyoo
Pressure Value Range	40-80 PSI
Supported Voltages	12V, 24V, 110V, 115V
Material	Plastic

Color	Black
Product Style	Diaphragm

Compatibility: This switch is compatible with most major brands of water pumps. Refer to your pump's specifications for exact compatibility.



Image: Diagram showing the dimensions (1 inch, 1.2 inch, 1.2 inch) and components of the Dreyoo pressure switch, including the switch diaphragm. It also lists support pressure (12V, 24V, 110V, 115V) and pressure value range (40-80 PSI).



Image: A graphic listing various brands compatible with the Dreyoo water pump pressure switch, including ANBULL, BORDSTRACT, DC HOUSE, DICMIC, DREYOO, ECCPP, and others.

4. Safety Information

- Always disconnect power to the water pump before attempting any installation, maintenance, or repair.
- Ensure all electrical connections are secure and properly insulated to prevent electrical hazards.
- This product is designed for water pump control only. Do not use it for purposes other than its intended use.
- If you are unsure about any installation steps, consult a qualified electrician or plumber.
- Keep children and pets away from the work area during installation and maintenance.

5. Installation

This section details the steps for replacing an existing pressure switch with the Dreyoo 40-80 PSI Water Pump Pressure Switch Assembly. Always ensure the water pump is disconnected from power before beginning.

5.1. Overview of Installation Steps



Image: A four-panel visual guide titled "Easy To Install". Panel 1 shows removing the broken pressure switch assembly. Panel 2 shows reconnecting electrical wires to the switch's two prong connectors. Panel 3 shows adjusting the pressure value. Panel 4 indicates installation is complete.

5.2. Detailed Disassembly and Installation Procedure

Refer to the detailed diagram below for specific steps on disassembling the old switch and installing the new one.

Diaphragm Pump Pressure Switch Manual

One.Product Information

Product name:	Diaphragm pump pressure switch	Pressure Range:	40-80PSI
Current range:	30A	Voltage range:	DC12V,DC24V,DC48V,AC110V,A115V,AC220V,AC230
Cope of application:	All diaphragm pump models include two chamber diaphragm pump, three chamber diaphragm pump, four chamber diaphragm pump, five chamber diaphragm pump, etc		

Two.Packing list

Pressure switch upper cover *1 Pressure switch assembly *1 (BB4*8)Screw*1 Black switch diaphragm *1 (TB3.1*23)Screw*2

Three. Steps for disassembling the pressure switch

No.	Operation Instruction	Picture
1	A.Unplug the power and stop the water pump from running B.Align the screwdriver with the screw, rotate the screw to open the pressure switch cover, as shown in the right figure	
2	Use a screwdriver to remove the screws on the left and right sides, as shown in the figure ① and ② on the right	
	Unplug the red wire from the left motor terminal, as shown in Figure ③ Unplug the red wire from the right motor terminal, as shown in Figure ④	
3	Remove the pressure switch and diaphragm	

Four.Steps for installing the pressure switch

No.	Operation Instruction	Picture
1	A.Unplug the power and stop the water pump from running B.Place the new black diaphragm in the circular groove of the switch (as shown in the figure), with the font side facing upwards, and then align it with the arc shape in the groove to ensure that the switch diaphragm is not pressed on the edge	
2	Press the pressure switch assembly onto the black diaphragm, with the terminal spring facing downwards (Figure ⑦⑧) Align the screws on both sides of the circular groove, as shown in Figure ⑤ ⑥	
3	Tighten the screws on both sides with a screwdriver, as shown in Figure ① and ②	
	Align the red wire terminal of the motor with the shrapnel and clamp it, as shown in Figure ③ Align the red wire terminal of the switch with the shrapnel and secure it, as shown in Figure ④	
4	Tighten the pressure switch cover with screws	

Image: A detailed instruction diagram for the Diaphragm Pump Pressure Switch. It includes sections for "Disassembling the pressure switch" (unplugging, unscrewing cover, disconnecting wires, removing switch and diaphragm) and "Installing the pressure switch" (inserting diaphragm, attaching assembly, securing screws, reconnecting wires, closing cover). Each step is accompanied by a visual reference.

5.3. Visual Installation Guide

Your browser does not support the video tag.

Video: An official product video demonstrating the installation process of the Dreyoo Water Pump Pressure Switch. This video provides a visual step-by-step guide for replacing the switch components.

6. Operation

The Dreyoo pressure switch automatically controls your water pump. When a faucet is opened, the pressure drops, and the switch activates the pump. When the faucet is closed, pressure builds, and the switch deactivates the pump.

6.1. Adjusting Pressure Settings

The pressure switch is adjustable within the 40-80 PSI range. To adjust the pressure:

- Locate the center screw under the switch cover.
- Turn the screw **clockwise** to *increase* the pressure setting.
- Turn the screw **counter-clockwise** to *decrease* the pressure setting.



Image: A visual representation of adjusting the pressure switch. It shows a screwdriver turning a screw, with arrows indicating that turning counter-clockwise decreases pressure and turning clockwise increases pressure.

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your pressure switch.

- **Periodic Inspection:** Periodically check the switch for any signs of wear, damage, or loose connections.
- **Cleanliness:** Keep the switch free from dirt, debris, and moisture.
- **Diaphragm Check:** If the pump is not cycling correctly, inspect the pressure sensing diaphragm for damage or blockages. Replace if necessary.
- **Electrical Connections:** Ensure all electrical connections remain tight and free from corrosion.

8. Troubleshooting

Problem	Possible Cause	Solution
Pump does not start	No power; Loose electrical connections; Faulty switch	Check power supply; Secure connections; Test/replace switch
Pump runs continuously	Pressure leak in system; Faulty diaphragm; Incorrect pressure setting	Check for leaks; Inspect/replace diaphragm; Adjust pressure setting
Inconsistent pressure	Air in system; Partially clogged lines; Incorrect pressure setting	Bleed air from system; Check and clear lines; Adjust pressure setting

If problems persist after attempting these solutions, contact customer support or a qualified technician.

9. Warranty and Support

For warranty information or technical support, please refer to the product packaging or contact Dreyoo customer service through their official channels. Keep your purchase receipt as proof of purchase.
Manufacturer: Dreyoo

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When my 110V 5.5GPM 70PSI water booster pump cycles, it runs at full speed and then makes a 'rat-a-tat' sound for 10 to 20 seconds at the end of the cycle. Is the pump trying to achieve the set pressure, and can this portion of the cycle be shortened or eliminated, especially since I have installed a 2-gallon accumulator tank?

The "rat-a-tat" sound you are hearing at the end of the cycle is likely pressure switch chattering. This occurs when the pump is rapidly turning on and off as it nears its shut-off pressure...

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