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› [JahyShow Air Compressor Pressure Switch Control \(BM-Y157\) Instruction Manual](#)

## JahyShow BM-Y157

# JahyShow Air Compressor Pressure Switch Control (BM-Y157) Instruction Manual

### INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your JahyShow Air Compressor Pressure Switch Control, model BM-Y157. This heavy-duty 26A single-port pressure switch is designed to regulate air pressure in compatible air compressors, helping to optimize energy consumption and ensure safe operation.

### SAFETY INFORMATION

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**WARNING:** Always disconnect power to the air compressor and ensure it is fully depressurized before installing, servicing, or adjusting the pressure switch. Failure to do so can result in serious injury or death.

- Ensure all electrical connections are secure and properly insulated to prevent electrical hazards.
- Installation should be performed by a qualified individual if you are unsure about any steps.
- Do not exceed the maximum voltage and amperage ratings specified for this device.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.

### PRODUCT OVERVIEW

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The JahyShow BM-Y157 pressure switch is a robust component for air compressor systems. It features a single 1/4" NPT female port for connection and an integrated ON/OFF switch lever for manual control. An unloader valve is also included to release air pressure from the compressor head when the motor stops, facilitating easier restarts.



This image displays the JahyShow Air Compressor Pressure Switch, showing its main body, pressure port, and the ON/OFF lever.

### Key Features:

- Single 1/4" NPT port connection manifold.
- Suitable for 90-125 Psi 26A air compressors.
- Heavy-duty 26A contacts for extended durability in demanding applications.
- Constructed from high-quality, corrosion-resistant materials for long mechanical life.
- Integrated ON/OFF switch lever for manual control.
- Includes an unloader valve.

### SPECIFICATIONS

<b>Model Number</b>	BM-Y157
<b>Default On (Cut-in) Pressure</b>	90 PSI
<b>Default Off (Cut-out) Pressure</b>	120 PSI
<b>Adjustable Pressure Range</b>	Min On: 35 PSI, Max Off: 150 PSI
<b>Differential</b>	30-40 PSI
<b>Pole Rating</b>	2 Pole
<b>Single Phase Rating</b>	20 Amps at 120V AC / 12 Amps at 240V AC
<b>Three Phase Rating</b>	9.6 Amps at 240V AC
<b>Maximum Voltage</b>	240V AC
<b>Port Type</b>	1/4" NPT Single Female Port

<b>Operation Mode</b>	ON-OFF
<b>Contact Type</b>	Normally Closed
<b>International Protection Rating</b>	IP54
<b>Material</b>	Plastic
<b>Item Weight</b>	12.7 ounces

## SETUP AND INSTALLATION

Follow these steps for proper installation of the pressure switch:

1. **Power Disconnection:** Ensure the air compressor is unplugged from its power source and completely depressurized before beginning any work.
2. **Remove Old Switch (if applicable):** Carefully disconnect all wiring from the existing pressure switch. Note the wiring configuration for correct re-connection. Unscrew the old pressure switch from the air compressor manifold.
3. **Prepare New Switch:** Apply thread sealant, such as PTFE (Teflon) tape, to the 1/4" NPT male threads of the new JahyShow pressure switch. Wrap the tape clockwise around the threads for a secure, leak-free seal.
4. **Install New Switch:** Screw the new pressure switch into the manifold port on your air compressor. Hand-tighten first, then use a wrench to tighten securely. Do not overtighten, as this can damage the threads or the switch housing.



This image shows the underside of the pressure switch, clearly displaying the 1/4 inch NPT single female port for connecting to the air compressor manifold.

5. **Wire Connections:** Connect the electrical wires to the appropriate terminals on the new switch. Refer to the original wiring configuration or your compressor's manual for correct connections. This switch is rated for 20A at 120V AC or 12A at 240V AC (single phase). Ensure all connections are tight and

insulated.

6. **Check for Leaks:** Once installed and wired, repressurize the air compressor system. Apply soapy water to all connections, especially around the new switch, to check for any air leaks. Bubbles indicate a leak that needs to be addressed.

## OPERATING INSTRUCTIONS

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The pressure switch automatically controls the air compressor's motor based on the tank pressure. It also features a manual ON/OFF lever.



A direct front view of the pressure switch, detailing the central pressure connection point and the red-tipped ON/OFF lever for manual control.

1. **Power On/Off:** Use the integrated ON/OFF switch lever to manually control the compressor. Move the lever to the 'ON' position to allow automatic operation. Move it to the 'OFF' position to stop the compressor and prevent automatic restarts.
2. **Automatic Operation:** When the lever is in the 'ON' position, the compressor will automatically start when the tank pressure drops below the factory-set cut-in pressure (default 90 PSI). It will then run until the tank pressure reaches the factory-set cut-out pressure (default 120 PSI), at which point it will automatically shut off.
3. **Pressure Adjustment:** The cut-in and cut-out pressures are adjustable within the specified range (Min On: 35 PSI, Max Off: 150 PSI). To adjust, locate the adjustment screw (typically under a protective cover or accessible from the top of the switch). Turn the screw clockwise to increase both cut-in and cut-out pressure settings, and counter-clockwise to decrease them. Make small adjustments and test the system's operation to achieve desired pressure levels.

## MAINTENANCE

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Regular maintenance helps ensure the longevity and reliable operation of your pressure switch:

- **Inspection:** Periodically inspect the pressure switch for any visible signs of wear, damage, cracks, or corrosion.

- **Electrical Connections:** Ensure all electrical connections remain tight and free from corrosion. Loose connections can lead to overheating or intermittent operation.
- **Cleanliness:** Keep the switch clean and free from dust, debris, and excessive moisture. A clean, dry environment is crucial for electrical components.
- **Leak Checks:** Regularly check for air leaks around the switch and its connections using soapy water. Address any leaks promptly to maintain compressor efficiency.

## TROUBLESHOOTING

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If you encounter issues with your pressure switch, refer to the following common problems and solutions:

- **Compressor Does Not Start:**
  - Ensure the ON/OFF lever on the switch is in the 'ON' position.
  - Verify that the air compressor is plugged in and receiving power.
  - Check all wiring connections for looseness or damage.
  - Confirm that the tank pressure is below the cut-in setting.
- **Compressor Does Not Stop:**
  - Ensure the ON/OFF lever is in the 'ON' position.
  - Verify that the tank pressure has reached the cut-out setting.
  - Inspect the pressure switch for internal damage or stuck contacts. (*Caution: Disconnect power before inspection.*)
  - Check for air leaks in the system, which might prevent the pressure from building up to the cut-out point.
- **Pressure Fluctuates Erratically:**
  - Check for air leaks in the system, including the tank, hoses, and fittings.
  - Inspect the unloader valve for proper function; it should close completely when the compressor is running.
  - Ensure the pressure adjustment screw is secure and not vibrating loose.

## WARRANTY INFORMATION

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JahyShow products are designed for durability and performance. For specific warranty details regarding your BM-Y157 Air Compressor Pressure Switch Control, please refer to the product packaging or contact JahyShow customer support directly. Keep your purchase receipt as proof of purchase.

## SUPPORT

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For technical assistance, product inquiries, or to report any issues, please visit the official JahyShow store on Amazon or contact their customer service directly through the provided channels on their store page.

JahyShow Store Link: [Visit the JahyShow Store](#)