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MPS CY001

MPS CY001 Bootstrap Compressor Instruction Manual

Model: CY001

1. INTRODUCTION AND SAFETY INFORMATION

This manual provides essential information for the safe and efficient operation and maintenance of your MPS CY001 Bootstrap Compressor. Please read all instructions carefully before use to prevent injury and ensure proper function.

General Safety Warnings:

- Always wear appropriate personal protective equipment (PPE), including eye protection, when operating the compressor.
- Ensure the compressor is placed on a stable, level surface in a well-ventilated area.
- Do not exceed the maximum rated pressure of the compressor or any connected tools/equipment.
- Regularly inspect all hoses, fittings, and gauges for damage or leaks. Replace any damaged components immediately.
- Disconnect the power source before performing any maintenance or repairs.
- Keep children and unauthorized personnel away from the operating compressor.

2. PRODUCT OVERVIEW

The MPS CY001 Bootstrap Compressor is designed for applications requiring precise pressure regulation. It features a robust design with clear pressure gauges for monitoring supply and discharge pressures.

Key Features:

- Discharge Pressure:** 200 PSI Maximum
- Supply Pressure:** 15 to 150 PSI
- Equipped with two 0-200 PSI gauges for accurate pressure readings.

Figure 2.1: Product label detailing model and pressure specifications.



Figure 2.2: Front view of the compressor with gauges and regulator.



Figure 2.3: Close-up of gauges and regulator.

3. SPECIFICATIONS

Specification	Value
Model Name	CY001
Brand	MPS
Manufacturer	MPS
Product Dimensions	16 x 7 x 9 inches
Item Weight	16 pounds
Discharge Pressure (Maximum)	200 PSI
Supply Pressure	15 to 150 PSI
Style	Portable



Figure 3.1: Serial number identification label.



Figure 3.2: Additional identification tag.

4. SETUP

Proper setup is crucial for the safe and effective operation of your compressor.

Installation Steps:

- Unpacking:** Carefully remove the compressor from its packaging. Inspect for any shipping damage.
- Placement:** Position the compressor on a firm, level surface. Ensure adequate ventilation around the unit to prevent overheating.
- Connections:** Connect the air supply line to the designated inlet port. Connect the discharge line to your pneumatic tool or system. Ensure all connections are secure and leak-free.
- Power Source:** Connect the compressor to an appropriate power source as specified by the manufacturer (if applicable for an electric model, though this appears to be a pneumatic booster).



Figure 4.1: Side view of the compressor, illustrating connection points.

Figure 4.2: Bottom view, showing connection and mounting details.

5. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your MPS CY001 Bootstrap Compressor.

Operation Procedure:

- Initial Check:** Before starting, ensure all connections are tight and there are no visible signs of damage or leaks.
- Supply Pressure:** Gradually introduce the supply air pressure to the compressor. Monitor the supply pressure gauge to ensure it is within the 15 to 150 PSI range.
- Adjust Discharge Pressure:** Use the pressure regulator (typically the knob located between the gauges) to set the desired discharge pressure. Observe the discharge pressure gauge to ensure it does not exceed the 200 PSI maximum.
- Monitor Operation:** During operation, regularly check both gauges to ensure pressures remain within safe and desired limits. Listen for any unusual noises or air leaks.
- Shut Down:** To shut down, first relieve the pressure from the discharge line. Then, gradually reduce and shut off the supply air pressure.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your compressor.

Maintenance Schedule:

- Daily/Before Each Use:**
 - Inspect all hoses and fittings for wear, cracks, or leaks.
 - Check gauges for proper function and accuracy.
 - Ensure the compressor is clean and free of debris.
- Monthly/Periodically:**
 - Check mounting bolts and fasteners for tightness.
 - Inspect the regulator for smooth operation.
- As Needed:**
 - Clean the exterior of the compressor with a damp cloth. Do not use harsh chemicals.
 - Replace any worn or damaged components with genuine MPS replacement parts.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your MPS CY001 Bootstrap Compressor.

Problem	Possible Cause	Solution
No discharge pressure	No supply pressure; Regulator closed; Leak in system	Check supply air; Open regulator; Inspect for and repair leaks

Problem	Possible Cause	Solution
Low discharge pressure	Insufficient supply pressure; Regulator setting too low; Leak in system	Increase supply pressure; Adjust regulator; Inspect for and repair leaks
Air leaks	Loose fittings; Damaged hoses/seals	Tighten all connections; Replace damaged components
Gauges not reading correctly	Damaged gauge; Blocked port	Replace faulty gauge; Clear any obstructions

8. WARRANTY AND SUPPORT

Warranty information for the MPS CY001 Bootstrap Compressor is not provided within this document. For details regarding warranty coverage, technical support, or to order replacement parts, please contact MPS directly through their official customer service channels.

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