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Mixizap EBY-433131A-6542

Mixizap 12V Hydraulic Power Unit Pump

4 QUART DOUBLE ACTING - USER MANUAL

Model: EBY-433131A-6542

1. Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Mixizap 12V Hydraulic Power Unit Pump, 4 Quart Double Acting. This unit is designed for heavy-duty applications requiring reliable hydraulic power for lifting and lowering.



Figure 1: Mixizap 12V Hydraulic Power Unit Pump with 4 Quart Reservoir.

2. Safety Instructions

WARNING: Failure to follow these safety instructions may result in serious injury or death.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when working with hydraulic systems.
- Ensure the power unit is disconnected from its power source before performing any maintenance, installation, or troubleshooting.
- Do not exceed the maximum rated pressure or lifting capacity of the unit. Refer to the specifications section.
- Keep hands and clothing clear of moving parts and hydraulic lines. High-pressure fluid can cause severe injury.
- Use only recommended hydraulic fluid. Mixing different types of fluid can cause system damage.
- Ensure all connections are tight and leak-free before operation.
- Do not operate the unit in explosive atmospheres or near flammable materials.

- Properly dispose of hydraulic fluid and other waste materials according to local regulations.

3. Included Components

The Mixizap 12V Hydraulic Power Unit Pump comes with the following components:

- 12V DC Hydraulic Power Unit (4 Quart, Double Acting)
- Wired Remote Control (15 ft cable)
- 2 x SAE #6 Connectors

Easy to Use

The entire power unit is easy to wire and operate



The positive and negative ports need to connect with the battery correctly to deliver quick oil output



Remote Controller



SAE #6 Connector

Figure 2: Main components including the power unit, remote control, and SAE #6 connectors.

4. Specifications

Feature	Specification
Model Number	EBY-433131A-6542

Feature	Specification
Voltage	12V DC
Motor Power	1.6 - 3.0 kW
Reservoir Capacity	4 Quart
Acting Type	Double Acting
Max Pressure (A port)	3200 PSI
Max Pressure (B port)	1500 PSI
Flow Rate	2 GPM
Product Dimensions	21 x 10 x 10.5 inches
Item Weight	31 pounds

5. Setup and Installation

The hydraulic power unit comes pre-assembled for convenience. Follow these steps for proper installation:

- Mounting:** Securely mount the power unit horizontally in a stable location. Avoid vertical mounting to prevent potential issues.
- Hydraulic Connections:** Connect your hydraulic lines to the A and B ports of the unit. Ensure all fittings are SAE #6 compatible and tightened to prevent leaks. This unit is not compatible with Metric/US Standard fittings.
- Electrical Wiring:** Connect the positive and negative terminals of the power unit directly to a 12V DC battery. Ensure correct polarity for proper operation and quick oil output. Refer to the wiring diagram for detailed connections.
- Fluid Fill:** Before first use, ensure the reservoir is filled with the appropriate hydraulic fluid to the recommended level.

DOUBLE-ACTING HYDRAULIC SYSTEM

Lift and lower with controlled hydraulic power

3200 PSI High Pressure

5 Ton Lifting Capacity

Smooth Down Control



Figure 3: Important installation requirements for the hydraulic power unit.



Figure 4: Detail of the electrical wiring connections on the power unit.

6. Operating Instructions

The Mixizap 12V Hydraulic Power Unit is designed for double-acting operation, providing power for both lifting and lowering applications. Use the included remote control for operation.

1. **Pre-Operation Check:** Before each use, inspect the unit for any visible damage, leaks, or loose connections. Ensure the hydraulic fluid level is adequate.
2. **Lifting (Power Up):** Press and hold the 'Up' button on the remote control. The pump will activate, and the hydraulic cylinder will extend, lifting the load. Release the button to stop lifting.
3. **Lowering (Power Down):** Press and hold the 'Down' button on the remote control. The pump will activate, and the

hydraulic cylinder will retract, lowering the load. Release the button to stop lowering.

4. **Emergency Stop:** In case of an emergency, release the remote control button immediately.

Powerful Lifting Capacity

double-acting pump for both power up and power down



Down



Up



Figure 5: Double-acting operation for lifting and lowering.



Figure 6: Double-acting hydraulic system in action, showing controlled lift and lower.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your hydraulic power unit.

- **Check Fluid Level:** Regularly check the hydraulic fluid level in the reservoir. Refill as needed with recommended hydraulic fluid.
- **Fluid Replacement:** Replace hydraulic fluid periodically, typically every 100-200 hours of operation or annually, whichever comes first. Consult your equipment manufacturer's recommendations.
- **Inspect for Leaks:** Periodically inspect all hydraulic lines, fittings, and seals for any signs of leaks. Address leaks immediately to prevent fluid loss and system contamination.
- **Clean Unit:** Keep the exterior of the power unit clean and free from dirt, debris, and moisture.
- **Electrical Connections:** Check electrical connections for corrosion or looseness. Ensure all wiring is secure.



Figure 7: Reservoir cap for fluid checks and refills.

8. Troubleshooting

Refer to the table below for common issues and their potential solutions.

Problem	Possible Cause	Solution
Pump does not operate	No power, loose wiring, faulty remote, motor issue	Check battery connections, verify remote functionality, inspect wiring for damage.
Slow or weak operation	Low hydraulic fluid, air in system, clogged filter, worn pump	Check and refill fluid, bleed air from system, inspect/replace filter, consult technician.
Fluid leaks	Loose fittings, damaged seals, cracked reservoir	Tighten fittings, replace damaged seals, inspect reservoir for cracks.
Overheating	Low fluid, continuous operation, motor overload	Check fluid level, allow unit to cool, reduce load or duty cycle.

9. Warranty and Support

Mixizap products are designed for durability and performance. For specific warranty details, please refer to the product packaging or contact Mixizap customer service. A 30-day return policy is typically offered for this product. For technical support or inquiries, please visit the official [Mixizap Store on Amazon](#) or contact your retailer.

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