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Model: FA7138-4Y

1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of the Rotary Lift Pump Drive Coupling, model FA7138-4Y. This component is a critical replacement part designed for Rotary Global Hydraulic Systems power unit motors, commonly found in various Rotary and Forward automobile lifts. Adhering to these guidelines will ensure the safe and efficient function of your lift system.

2. SAFETY GUIDELINES

Always prioritize safety when working with lift equipment and mechanical components. Failure to follow safety precautions can result in serious injury or damage to equipment.

- Ensure the lift is de-energized and locked out according to standard safety procedures before beginning any work.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Consult the primary lift system's instruction manual for specific safety warnings and procedures.
- If you are unsure about any step, seek assistance from a qualified technician.

3. PRODUCT DESCRIPTION AND COMPONENTS

The Rotary Lift Pump Drive Coupling (model FA7138-4Y) is a precision-engineered component designed to transmit rotational power from the electric motor to the hydraulic pump within a lift's power unit. It ensures smooth and efficient power transfer, which is vital for the proper operation of the lift.



Figure 1: Rotary Lift Pump Drive Coupling. This image shows a close-up of the small, dark, hexagonal-shaped component, which is essential for connecting the motor to the pump in a lift's power unit.

This coupling is an original replacement part, ensuring compatibility and reliable performance with Rotary and Forward lifts utilizing Global Hydraulics motors, including models such as FA7147, FA7175, and FA7350.

4. INSTALLATION INSTRUCTIONS

These instructions outline the general procedure for replacing a pump drive coupling. Always refer to the specific service manual for your lift model for detailed steps.

1. **Prepare the Lift:** Ensure the lift is in its lowest position, de-energized, and locked out according to standard safety procedures before beginning any work.
2. **Access the Power Unit:** Locate and open the power unit housing to access the motor and pump assembly.
3. **Remove Old Coupling:** Carefully separate the motor from the pump. The old coupling will be located between the motor shaft and the pump shaft. Note its orientation and how it was seated. Remove the worn or damaged coupling.
4. **Inspect Shafts:** Clean and inspect both the motor shaft and the pump shaft for any damage, wear, or debris. Ensure they are free of burrs.
5. **Install New Coupling:** Align the new FA7138-4Y coupling with the shafts. Gently slide the coupling onto one shaft, then carefully bring the other shaft into alignment and slide it into the coupling. Ensure the coupling is fully seated on both shafts. Do not force the coupling.
6. **Reassemble Power Unit:** Reconnect the motor and pump, ensuring all mounting hardware is securely fastened according to the manufacturer's torque specifications.
7. **Restore Power and Test:** Once reassembly is complete and all safety checks are performed, restore power to the lift. Perform a functional test of the lift, observing for any unusual noises, vibrations, or operational issues.

Note: Proper alignment is crucial for the longevity and performance of the coupling and the entire power unit. Misalignment can lead to premature wear and failure.

5. OPERATION

The pump drive coupling operates passively by transmitting torque. Its correct operation is dependent on proper installation and the healthy functioning of the motor and pump it connects. Once installed, the coupling facilitates the transfer of power from the motor to the hydraulic pump, enabling the lift's hydraulic system to function.

No direct user interaction is required with the coupling during normal lift operation. Ensure that the lift operates smoothly without excessive noise or vibration, which could indicate an issue with the coupling or

other power unit components.

6. MAINTENANCE AND CARE

Regular inspection and maintenance are key to extending the life of your pump drive coupling and ensuring reliable lift operation.

- **Periodic Inspection:** During routine lift maintenance, inspect the coupling for signs of wear, cracking, or deformation. Check for any looseness between the coupling and the shafts.
- **Cleanliness:** Keep the power unit area clean and free of debris, oil, or hydraulic fluid leaks, which can degrade coupling materials over time.
- **Alignment Check:** If any unusual vibrations or noises are detected, check the alignment of the motor and pump shafts. Misalignment can cause rapid coupling wear.
- **Replacement:** Replace the coupling immediately if any signs of significant wear or damage are observed. Using a damaged coupling can lead to further, more costly damage to the motor or pump.

7. TROUBLESHOOTING

If you experience issues with your lift's power unit, the coupling may be a contributing factor. Here are some common symptoms and potential solutions:

Symptom	Possible Cause	Solution
Excessive noise or vibration from power unit	Worn, damaged, or misaligned coupling	Inspect coupling for wear; check motor/pump alignment; replace coupling if damaged.
Motor runs but pump does not engage	Completely failed or broken coupling	Inspect and replace coupling. Ensure motor and pump shafts are intact.
Intermittent lift operation	Partially damaged coupling or loose fit	Inspect coupling for partial damage or improper seating; replace if necessary.

If troubleshooting steps do not resolve the issue, consult a qualified lift technician or contact Rotary Lift support.

8. TECHNICAL SPECIFICATIONS

- **Product Name:** Pump Drive Coupling
- **Brand:** Rotary
- **Model Number:** FA7138-4Y
- **Manufacturer:** Rotary Lift
- **Compatibility:** Rotary and Forward lifts with Global Hydraulics motors (e.g., FA7147, FA7175, FA7350)
- **ASIN:** B01KKECPYY
- **Date First Available:** August 17, 2016

9. WARRANTY AND SUPPORT

This Rotary Lift Pump Drive Coupling is an original replacement part. For specific warranty information,

please refer to the documentation provided with your purchase or contact the seller, JEMKO, or Rotary Lift directly.

For technical assistance, parts inquiries, or warranty claims, please contact:

Manufacturer: Rotary Lift

Seller: JEMKO (Seller Information)

Always provide your product model number (FA7138-4Y) and purchase details when seeking support.