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ALINREDBX 42TO250109S01

ALINREDBX Air Con Compressor Instruction Manual

Model: 42TO250109S01

1. Introduction

This manual provides essential information for the ALINREDBX Air Con Compressor, model 42TO250109S01. It covers product overview, safety guidelines, installation considerations, operational aspects, maintenance recommendations, and troubleshooting tips. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

2. Product Overview and Compatibility

The ALINREDBX Air Con Compressor is designed to restore the air conditioning system's cooling capacity in compatible vehicles. It features a sturdy construction for durability and reliable performance.

2.1 Compatibility

- **Vehicle:** Hino 500 Ranger FD 8.0L Diesel J08C
- **Model Years:** January 1997 - December 2002

2.2 Product Features

- Provides smooth and reliable air conditioning.
- Constructed for long-lasting durability.
- Designed for straightforward installation.



Figure 1: Main view of the ALINREDBX Air Con Compressor. This image shows the overall design and primary components of the compressor unit.



Figure 2: Side view of the ALINREDBX Air Con Compressor, highlighting the pulley and mounting points.

3. Safety Information

Always observe the following safety precautions when handling or installing automotive components:

- Disconnect the vehicle's battery before beginning any installation work.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands if working underneath.
- Refrigerant systems are under high pressure. Only qualified personnel should handle refrigerant recovery and recharging.
- Refer to the vehicle manufacturer's service manual for specific procedures and torque specifications.

4. Setup and Installation

This air conditioning compressor is designed for a quick and straightforward installation. However, due to the complexity of

automotive air conditioning systems, professional installation by a certified technician is highly recommended.

4.1 Pre-Installation Checks

1. Verify that the new compressor matches the specifications and fitment for your vehicle.
2. Inspect the new compressor for any shipping damage.
3. Ensure all necessary tools and replacement components (e.g., O-rings, drier/accumulator, expansion valve) are available.

4.2 Installation Steps (General Guidance)

The following steps are general and should be supplemented by a vehicle-specific service manual:

1. Safely recover all refrigerant from the AC system using proper equipment.
2. Disconnect electrical connectors and refrigerant lines from the old compressor.
3. Remove mounting bolts and carefully detach the old compressor.
4. Install the new ALINREDBX compressor, ensuring proper alignment and secure mounting. Replace O-rings on refrigerant lines.
5. Reconnect electrical connectors and refrigerant lines.
6. Replace the drier/accumulator and expansion valve as recommended for AC system repairs.
7. Evacuate the AC system to remove air and moisture.
8. Recharge the system with the correct type and amount of R134a refrigerant and compressor oil according to vehicle specifications.
9. Check for leaks using a leak detector.



Figure 3: View of the compressor highlighting the electrical connection point, crucial for proper installation.

5. Operating Instructions

Once the ALINREDBX Air Con Compressor is correctly installed and the AC system is recharged, its operation is integrated with the vehicle's existing air conditioning controls. The compressor engages when the AC system is activated, circulating refrigerant to provide cooling.

- Turn on the vehicle's air conditioning system using the dashboard controls.
- Adjust temperature and fan speed as desired.
- Listen for the compressor clutch engagement, which indicates the compressor is active.

6. Maintenance

Regular maintenance of your vehicle's AC system helps ensure the longevity and efficient performance of the ALINREDBX Air Con Compressor.

- **Refrigerant Level Check:** Periodically check the refrigerant level. Low refrigerant can indicate a leak and cause the

compressor to run excessively, leading to premature wear.

- **Belt Inspection:** Inspect the serpentine belt that drives the compressor for cracks, fraying, or excessive wear. Replace if necessary.
- **System Leaks:** Have the AC system checked for leaks annually, especially if cooling performance diminishes.
- **Cabin Air Filter:** Replace the cabin air filter regularly to maintain good airflow and reduce strain on the AC system.

7. Troubleshooting

If you experience issues with your vehicle's air conditioning system after installing the ALINREDBX compressor, consider the following common problems and potential solutions:

- **No Cooling or Weak Cooling:**
  - Check refrigerant level. Low refrigerant is a common cause.
  - Inspect the compressor clutch for engagement. If it's not engaging, check electrical connections and fuses.
  - Ensure the condenser is clean and free of obstructions.
- **Unusual Noises from Compressor:**
  - A squealing noise may indicate a loose or worn serpentine belt.
  - Grinding or rattling noises could suggest internal compressor issues or improper lubrication. Consult a professional.
- **Compressor Cycling On and Off Frequently:**
  - This can be caused by low or overcharged refrigerant.
  - A faulty pressure switch can also cause rapid cycling.

For complex issues or if basic troubleshooting does not resolve the problem, it is recommended to seek assistance from a qualified automotive AC technician.

8. Specifications

Detailed specifications for the ALINREDBX Air Con Compressor:

Specification	Value
Product Type	Air Con AC Compressor
Compressor Model	Compatible with 10S13C
Material	High-quality metal and plastic components
Refrigerant Type	Compatible with R134a
Volts	24V
Pulley Type	1A
Pulley Diameter	133mm
Ports	Pad
Item Weight	15.4 pounds
Manufacturer Part Number	42TO250109S01

9. Warranty and Support

For information regarding the product warranty, please refer to the terms and conditions provided by your retailer or contact the ALINREDBX manufacturer directly. Support inquiries should also be directed to the point of purchase or the manufacturer for assistance with product-specific questions or issues.

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