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UAC KT 1125

UAC KT 1125 A/C Compressor and Component Kit User Manual

Model: KT 1125

PRODUCT OVERVIEW

The UAC KT 1125 A/C Compressor and Component Kit is a comprehensive solution for replacing your vehicle's air conditioning system components. This kit includes a brand new, OE replacement compressor and clutch, a drier/accumulator, an expansion device, an 8oz bottle of PAG oil, and a complete seal kit. All components are manufactured to meet or exceed OEM specifications, ensuring reliable performance and proper fitment.



Figure 1: Contents of the UAC KT 1125 A/C Compressor and Component Kit. This image displays the main compressor unit, the cylindrical drier/accumulator, the small expansion device, a bottle of PAG oil, and a collection of various O-rings and seals necessary for installation.

INCLUDED COMPONENTS

- **Compressor & Clutch:** The primary component responsible for circulating refrigerant.
- **Drier / Accumulator:** Removes moisture and contaminants from the refrigerant.
- **Expansion Device:** Regulates refrigerant flow into the evaporator.
- **PAG Oil (8oz bottle):** Lubricant for the A/C system. Note: Compressor may come charged with shipping oil; drain and replace according to your system's requirements.
- **Seal Kit:** Includes all necessary O-rings and gaskets for a leak-free installation.

INSTALLATION AND SETUP

Proper installation is crucial for the longevity and performance of your A/C system. It is highly recommended that installation be performed by a certified automotive technician. Incorrect installation can lead to system failure and void the warranty.

Pre-Installation Steps:

1. **System Flush:** Thoroughly flush the entire A/C system to remove old oil, debris, and contaminants. This step is critical to prevent contamination of the new compressor.
2. **Component Replacement:** Replace the drier/accumulator and expansion device as these are included in the kit and are essential for system integrity.
3. **Oil Management:** The new compressor may contain shipping oil. Drain this oil and add the correct amount and type of PAG oil (included) specific to your vehicle's requirements. Refer to your vehicle's service manual for exact specifications.
4. **Seal Replacement:** Always use new O-rings and seals (included in the kit) at all connection points to ensure a leak-free system.

Installation Procedure:

1. Mount the new compressor securely in its designated location.
2. Connect all refrigerant lines, ensuring new O-rings are properly seated and connections are tightened to manufacturer specifications.
3. Install the new drier/accumulator and expansion device.
4. Evacuate the A/C system using a vacuum pump to remove all air and moisture. Maintain vacuum for at least 30 minutes to ensure complete dehydration.
5. Recharge the system with the correct type and amount of refrigerant as specified by your vehicle's manufacturer.
6. Perform a leak test using an appropriate leak detection method.

OPERATING INSTRUCTIONS

Once the A/C system is properly installed and charged, operate it according to your vehicle's manufacturer guidelines. The compressor engages when the A/C system is activated, typically indicated by a button or dial on your vehicle's dashboard.

- Ensure the engine is running when operating the A/C system.
- Adjust temperature and fan speed settings as desired.
- If the A/C system does not cool effectively, refer to the Troubleshooting section.

MAINTENANCE

Regular maintenance helps ensure the longevity and efficiency of your A/C system.

- **Regular Use:** Operate your A/C system periodically, even in cold weather, to keep seals lubricated and prevent refrigerant leaks.
- **System Checks:** Have your A/C system inspected annually by a qualified technician for proper refrigerant levels, leaks, and overall performance.
- **Cabin Air Filter:** Replace your vehicle's cabin air filter regularly to maintain good airflow and air quality.

TROUBLESHOOTING

This section provides guidance for common issues. For complex problems, consult a professional technician.

Problem	Possible Cause	Solution
A/C not blowing cold air	Low refrigerant level, faulty compressor clutch, clogged expansion device, electrical issue.	Check for leaks and recharge refrigerant. Inspect compressor clutch for engagement. Consult a technician for diagnosis.
Unusual noises from A/C	Worn compressor bearings, insufficient lubrication, loose mounting hardware.	Check oil level. Ensure compressor is securely mounted. Professional inspection recommended.
A/C cycles on and off rapidly	Overcharged system, low refrigerant, faulty pressure switch.	Verify correct refrigerant charge. Inspect pressure switches.

SPECIFICATIONS

Brand: UAC

Model: KT 1125

Item Weight: Approximately 17.65 pounds (8.0 kg)

Product Dimensions: Approximately 17 x 14 x 12 inches (43.2 x 35.6 x 30.5 cm)

Included Oil Capacity: 8 ounces PAG oil

OEM Part Numbers: 590001; 590101; 638810; 709003; 758884; 77335; 78335; 5511628; 6511628; 7511628; 2010888; 143131C; 143131NC; 143131NEW; 8832035540;

WARRANTY INFORMATION

UAC products are designed for quality and reliability. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact UAC customer support directly. Typically, warranties cover manufacturing defects under normal use. Improper installation, contamination, or damage from external factors may void the warranty.

CUSTOMER SUPPORT

For technical assistance, installation questions, or warranty claims, please contact UAC customer support. Refer to the contact information provided on the product packaging or the official UAC website. When contacting support, please have your product model number (KT 1125) and purchase details ready.

Note: This manual provides general guidelines. Always consult your vehicle's specific service manual for detailed procedures and specifications.

