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› Universal Air Conditioner KT 4678A A/C Compressor/Component Kit User Manual

UAC KT 4678A

UAC KT 4678A A/C Compressor/Component Kit User Manual

Model: KT 4678A

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your UAC KT 4678A A/C Compressor/Component Kit. Please read this manual thoroughly before beginning any work to ensure safe and effective use of the product.

The UAC KT 4678A kit is designed as an OE replacement for vehicle air conditioning systems, ensuring compatibility and performance that meets or exceeds original equipment specifications.

KIT CONTENTS

The UAC KT 4678A A/C Compressor/Component Kit typically includes the following components:

- A/C Compressor
- Condenser
- Accumulator/Drier
- Expansion Valve or Orifice Tube
- PAG Oil (specific to system requirements)
- Complete O-Ring and Gasket Kit



Figure 1: Overview of the UAC KT 4678A A/C Compressor/Component Kit. This image displays the main components including the A/C compressor, condenser, accumulator/drier, expansion valve, a bottle of PAG oil, and various O-rings and gaskets.

SAFETY INFORMATION

Always observe the following safety precautions when working with automotive air conditioning systems:

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle's battery is disconnected before beginning any electrical work.
- Refrigerant systems are under high pressure. Only qualified personnel should handle refrigerant.
- Do not vent refrigerant into the atmosphere. Use proper recovery equipment.
- Refer to your vehicle's service manual for specific procedures and torque specifications.

SETUP AND INSTALLATION

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.

Pre-Installation Steps:

1. **System Flush:** Thoroughly flush the entire A/C system (condenser, evaporator, lines) to remove old oil, debris, and contaminants. This is a critical step and often overlooked. *Do not flush the new compressor or accumulator/drier.*
2. **Inspect Components:** Examine all new components for any shipping damage.
3. **Verify Compatibility:** Confirm that the new components match the original parts removed from the vehicle.
4. **Lubrication:** Add the correct type and amount of PAG oil to the new compressor as specified by the vehicle manufacturer or the kit instructions. Distribute some oil by rotating the compressor clutch by hand 10-15 times.
5. **O-Rings and Gaskets:** Replace all O-rings and gaskets with the new ones provided in the kit. Lubricate them with clean PAG oil before installation.

Installation Procedure:

1. Install the new condenser, ensuring proper airflow and secure mounting.
2. Install the new accumulator/drier or receiver/drier. This component should always be replaced when the system is opened.
3. Install the new expansion valve or orifice tube.
4. Mount the new A/C compressor securely, connecting all lines and electrical connectors.
5. Connect all A/C lines, ensuring all new O-rings are properly seated and connections are torqued to vehicle manufacturer specifications.

SYSTEM OPERATION AND INITIAL START-UP

After installation, the A/C system must be properly evacuated and charged.

1. **Evacuation:** Connect a vacuum pump to the A/C system and evacuate for at least 45-60 minutes to remove all air and moisture. A deep vacuum (below 500 microns) is essential.
2. **Leak Test:** After evacuation, close the manifold gauges and observe the vacuum for at least 15-20 minutes. A stable vacuum indicates no significant leaks.
3. **Refrigerant Charging:** Charge the system with the correct type and amount of refrigerant (e.g., R-134a) as specified by the vehicle manufacturer. Refer to the vehicle's under-hood label for precise specifications.
4. **Initial Run:** Start the vehicle and turn on the A/C system to its maximum cooling setting. Allow the system to run for several minutes, observing pressures and vent temperatures. The compressor clutch should engage smoothly.

Monitor the system for proper operation, including cold air output and stable pressure readings on both high and low sides.

MAINTENANCE

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

- **Regular Use:** Operate the A/C system periodically, even in cold weather, to keep seals lubricated and prevent component seizing.
- **Cabin Air Filter:** Replace the cabin air filter regularly (typically annually or every 15,000 miles) to maintain airflow and air quality.
- **Condenser Cleaning:** Keep the condenser fins clean and free of debris (leaves, bugs, dirt) to ensure efficient heat exchange.
- **System Inspection:** Periodically inspect A/C hoses and connections for signs of leaks or wear.

Troubleshooting Common Issues

Symptom	Possible Cause	Solution
No cold air / Weak cooling	Low refrigerant charge, Clogged condenser, Faulty compressor clutch, Electrical issue	Check for leaks and recharge, Clean condenser, Inspect clutch and wiring, Consult technician
Loud noise from compressor	Insufficient lubrication, Internal compressor failure, Loose mounting bolts	Verify proper oil charge, Professional diagnosis required, Tighten bolts
Compressor clutch not engaging	Low refrigerant pressure, Electrical fault (fuse, relay, wiring), Faulty pressure switch	Check refrigerant level, Inspect electrical components, Replace faulty switch
Odor from vents	Mold/mildew in evaporator, Dirty cabin air filter	Use A/C system cleaner, Replace cabin air filter

For complex issues or if you are unsure about a repair, it is always best to consult a qualified automotive A/C technician.

Specifications

- **Model:** KT 4678A
- **Brand:** UAC (Universal Air Conditioner)
- **Type:** A/C Compressor/Component Kit
- **Quality Standard:** ISO/TS 16949 (meets or exceeds OEM specifications)
- **Typical Refrigerant Compatibility:** R-134a (verify vehicle specific requirements)
- **Typical Oil Type:** PAG 46 (verify vehicle specific requirements)
- **Product Dimensions:** Approximately 30 x 25 x 25 inches (packaged)
- **Item Weight:** Approximately 19.33 pounds (packaged)

Note: Specific refrigerant and oil capacities are vehicle-dependent. Always refer to your vehicle's service manual or under-hood label.

Warranty Information

UAC products are backed by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official UAC website. Typically, warranties cover defects in materials and workmanship under normal use and service.

Note: Improper installation, contamination, or failure to flush the system may void the warranty.

Customer Support

For technical assistance, product inquiries, or warranty claims, please contact UAC customer support through their official channels. You may find contact information on the product packaging or the manufacturer's website.

UAC Official Website: www.uacparts.com

When contacting support, please have your product model number (KT 4678A) and purchase details readily available.

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