

UAC KT 1060

UAC KT 1060 A/C Compressor and Component Kit Instruction Manual

Comprehensive guide for installation, operation, and maintenance.

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your UAC KT 1060 A/C Compressor and Component Kit. Adhering to these instructions will help ensure optimal performance and longevity of the product. Please read this entire manual carefully before beginning any work.

1.1 Product Overview

The UAC KT 1060 is an OE replacement A/C Compressor and Component Kit designed to restore your vehicle's air conditioning system. This kit is manufactured to meet or exceed OEM specifications, ensuring a guaranteed fit and reliable performance.

1.2 Kit Contents

The UAC KT 1060 A/C Compressor and Component Kit typically includes the following items:

- A/C Compressor with Clutch
- Drier / Accumulator
- Expansion Device
- 8oz bottle of PAG oil (specific type may vary, e.g., PAG 46)
- Seal Kit (various O-rings)



Figure 1: UAC KT 1060 A/C Compressor and Component Kit. This image displays all components included in the kit: the A/C compressor with its clutch, a bottle of PAG 46 oil, two expansion devices, a variety of green O-rings in different sizes, and a desiccant bag with a filter element.

2. SAFETY INFORMATION

Working with automotive air conditioning systems involves high pressures and specialized refrigerants. Improper handling can lead to serious injury or damage. Always observe the following safety precautions:

- **Professional Installation Recommended:** Due to the complexity and safety requirements, professional installation by a certified automotive technician is strongly recommended.
- **Eye Protection:** Always wear appropriate eye protection (safety glasses or goggles) when working on the A/C system.
- **Skin Protection:** Wear gloves and long sleeves to protect skin from refrigerant and oils.
- **Refrigerant Handling:** Refrigerant must be handled by certified personnel using proper recovery and charging equipment. Do not vent refrigerant into the atmosphere.
- **High Pressure:** A/C systems operate under high pressure. Never disconnect lines or components without first ensuring the system is fully discharged by a qualified technician.

- **Electrical Safety:** Disconnect the vehicle's battery before performing any electrical work on the compressor or related components.
- **Flammable Materials:** Keep all flammable materials away from the work area.

3. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your A/C system. This section outlines general steps; consult your vehicle's specific service manual for detailed procedures.

3.1 Pre-Installation Checks

1. **Verify Fitment:** Confirm the kit is compatible with your specific vehicle year, make, and model.
2. **Inspect Components:** Before installation, carefully inspect all components for any shipping damage.
3. **System Flush:** It is highly recommended to flush the entire A/C system (condenser, evaporator, lines) to remove old oil, debris, and contaminants. Failure to do so can lead to premature compressor failure.
4. **Drier/Accumulator Replacement:** Always replace the drier/accumulator and expansion device (orifice tube or expansion valve) when replacing the compressor.
5. **PAG Oil Management:** The new compressor may come charged with shipping oil. This oil is for lubrication during transit only. Drain the shipping oil and replace it with the correct amount and type of PAG oil specified for your vehicle's A/C system. Refer to your vehicle's service manual for exact specifications. The included 8oz bottle of PAG oil should be used according to your system's requirements.
6. **O-Ring Replacement:** Use the new O-rings provided in the seal kit for all connections. Lubricate O-rings with clean PAG oil before installation.

3.2 Installation Steps (General)

1. **Discharge System:** Ensure the A/C system is completely discharged by a certified technician using proper equipment.
2. **Remove Old Components:** Disconnect and remove the old compressor, drier/accumulator, and expansion device.
3. **Install New Components:**
 - Install the new expansion device.
 - Install the new drier/accumulator.
 - Mount the new UAC compressor, ensuring all mounting bolts are tightened to the manufacturer's specifications.
 - Connect all A/C lines to the compressor, drier, and expansion device using new, lubricated O-rings.
 - Connect the electrical connector to the compressor clutch.
4. **Add PAG Oil:** Add the correct amount of new PAG oil to the system, distributing it between the compressor, drier, and other components as per vehicle specifications.
5. **Evacuate System:** Use a vacuum pump to evacuate the A/C system for at least 30-45 minutes (or longer, depending on system size and ambient temperature) to remove air and moisture. This is critical for system performance and longevity.
6. **Leak Test:** Perform a vacuum decay test to check for leaks. The system should hold vacuum for at least 15-30 minutes.
7. **Charge System:** Charge the A/C system with the correct type and amount of refrigerant (e.g., R-134a) as specified by your vehicle manufacturer. Do not overcharge.

4. OPERATING INSTRUCTIONS

Once the UAC KT 1060 A/C Compressor and Component Kit is correctly installed and the system is charged, operate your vehicle's A/C system as follows:

1. Start the vehicle engine and allow it to reach normal operating temperature.
2. Turn on the air conditioning system to its maximum cooling setting and fan speed.

- 3. Observe the system's performance. You should feel cold air from the vents.
- 4. Listen for any unusual noises from the compressor or other components.
- 5. Check for proper clutch engagement and disengagement.
- 6. Monitor system pressures using appropriate gauges (if available) to ensure they are within manufacturer specifications.

If any issues arise during initial operation, refer to the Troubleshooting section or consult a qualified technician.

5. MAINTENANCE

Regular maintenance helps prolong the life of your A/C system and ensures efficient cooling.

- **Regular Operation:** Operate your A/C system for at least 10-15 minutes once a month, even during colder weather. This helps keep seals lubricated and prevents refrigerant pooling.
- **Check for Leaks:** Periodically inspect A/C lines and connections for signs of oil residue or refrigerant leaks.
- **Belt Inspection:** Check the compressor drive belt for proper tension and wear. Replace if necessary.
- **Condenser Cleaning:** Keep the condenser fins clean and free of debris (leaves, dirt, bugs) to ensure efficient heat transfer.
- **Cabin Air Filter:** Replace your vehicle's cabin air filter regularly to maintain good airflow and air quality.
- **Professional Inspection:** Consider having your A/C system professionally inspected every 1-2 years to check refrigerant levels, pressures, and overall component health.

6. TROUBLESHOOTING

This section addresses common issues you might encounter after installing the A/C compressor kit. For complex problems, consult a qualified automotive technician.

Problem	Possible Cause	Solution
No cold air / Poor cooling	• Low refrigerant charge • System leak • Improper oil level • Clogged expansion device or drier • Compressor clutch not engaging • Electrical issue	• Check for leaks and recharge system. • Verify correct PAG oil amount. • Inspect and replace expansion device/drier if necessary. • Check electrical connections to compressor clutch. • Consult a technician for diagnosis.
Compressor making unusual noises	• Incorrect oil level or type • Contaminants in system • Loose mounting bolts • Worn clutch bearing	• Verify correct oil. • System flush may be required. • Check and tighten mounting bolts. • Professional diagnosis recommended.
Compressor clutch not engaging	• Low refrigerant pressure (safety switch) • Faulty electrical connection or fuse • Defective clutch coil • Faulty pressure switch	• Check refrigerant charge. • Inspect wiring, fuses, and relays. • Test clutch coil and pressure switches. • Professional diagnosis recommended.

7. SPECIFICATIONS

Attribute	Detail
Brand	UAC
Model	KT 1060
Item Weight	20 pounds
Product Dimensions	17 x 14 x 12 inches
Manufacturer Part Number	KT 1060
OEM Part Numbers	590001; 590101; 707701; 707712; 759186; 759580; 759596; 759604; 759611; 759613; 759627; 759654; 759659; 759670; 157312; 25865635; 140445C; 140445NC; 7512559; 158312;

8. WARRANTY AND SUPPORT

The UAC KT 1060 A/C Compressor and Component Kit is backed by an industry-leading warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official UAC website.

For technical support, installation assistance, or warranty claims, please contact UAC customer service through their official channels. When contacting support, please have your product model number (KT 1060) and purchase information readily available.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

