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› [APDTY](#) /

› APDTY 134025 AC Air Conditioning Condenser Assembly User Manual

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Model: 134025

1. PRODUCT OVERVIEW

The APDTY 134025 AC Air Conditioning Condenser Assembly is a brand new replacement component designed to restore the air conditioning system's efficiency in compatible vehicles. The condenser is a crucial part of the vehicle's air conditioning system, responsible for dissipating heat from the refrigerant after it has absorbed heat from the cabin.



Figure 1: APDTY 134025 AC Air Conditioning Condenser Assembly. This image shows the full condenser unit, highlighting its finned structure and connection ports.

2. COMPATIBILITY

This AC Air Conditioning Condenser Assembly is specifically designed for direct fitment in the following vehicle models:

- **Compatible With:** 2000-2006 Jeep Wrangler, Wrangler TJ

This part is a direct replacement for OEM Part Numbers:

- 55037618AH
- 55037618AD

Always verify compatibility with your vehicle's specific make, model, and year before installation. Consult your vehicle's service manual for precise part requirements.

3. INSTALLATION GUIDELINES

Installation of an AC condenser requires specialized tools and knowledge of automotive air conditioning systems. It is highly recommended that this component be installed by a certified automotive technician.

3.1. Safety Precautions

- Ensure the vehicle's engine is off and the battery is disconnected before beginning any work.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Automotive air conditioning systems contain refrigerant under pressure. Improper handling can lead to serious injury or environmental damage. **Do not attempt to discharge the AC system yourself.** This must be done by a qualified professional using proper recovery equipment.
- Be aware of sharp edges and hot surfaces during removal and installation.

3.2. General Installation Steps (Professional Installation Recommended)

1. **Refrigerant Recovery:** Have a certified technician recover the refrigerant from the AC system using an approved recovery machine.
2. **Access:** Depending on the vehicle, access to the condenser may require removal of the front bumper, grille, or other components.
3. **Disconnect Lines:** Carefully disconnect the refrigerant lines from the old condenser. Be prepared for residual refrigerant or oil. Cap the lines immediately to prevent contamination.
4. **Remove Old Condenser:** Unbolt and remove the old condenser from its mounting brackets.
5. **Install New Condenser:** Position the new APDTY 134025 condenser into place and secure it with the appropriate bolts.
6. **Connect Lines:** Reconnect the refrigerant lines to the new condenser. Replace any O-rings or seals as necessary to ensure a leak-free connection. Use new O-rings and lubricate them with appropriate PAG oil.
7. **Vacuum and Recharge:** Once the new condenser is installed and lines are connected, the system must be evacuated (vacuumed) to remove air and moisture, and then recharged with the correct type and amount of refrigerant and PAG oil according to the vehicle manufacturer's specifications. This step is critical for proper system operation and longevity.
8. **Leak Test:** Perform a leak test on the entire AC system to ensure there are no leaks.
9. **Test System:** Start the vehicle and test the AC system for proper operation and cooling performance.

4. OPERATING PRINCIPLES

The AC condenser is a heat exchanger located at the front of the vehicle, typically in front of the radiator. Its primary function is to cool down the hot, high-pressure gaseous refrigerant that comes from the AC compressor. As the refrigerant flows through the condenser's tubes and fins, heat is transferred to the cooler ambient air passing over it (aided by the vehicle's cooling fan or airflow during driving). This process causes the refrigerant to condense from a gas into a high-

pressure liquid, which then flows to the expansion valve or orifice tube, ready to absorb heat from the vehicle's cabin.

5. MAINTENANCE

Proper maintenance of your vehicle's AC system, including the condenser, can extend its lifespan and ensure optimal performance.

- **Keep Clean:** Periodically inspect the condenser fins for debris (leaves, bugs, dirt) that can block airflow. Carefully clean the fins with a soft brush or low-pressure water spray. Avoid bending the fins.
- **Check for Damage:** Inspect for any signs of physical damage, such as bent fins, dents, or leaks.
- **System Checks:** Have your AC system professionally inspected annually to check refrigerant levels, pressure, and overall component health.
- **Address Leaks Promptly:** If any leaks are detected in the AC system, have them repaired immediately by a qualified technician to prevent further damage to components like the compressor.

6. TROUBLESHOOTING COMMON ISSUES

If your vehicle's air conditioning system is not performing as expected, the condenser might be a contributing factor. Here are some common issues and potential causes:

- **Poor Cooling Performance:**
 - **Blocked Condenser Fins:** Debris obstructing airflow can prevent proper heat dissipation.
 - **Low Refrigerant Charge:** A leak in the system, including the condenser, can lead to insufficient refrigerant.
 - **Condenser Damage:** Physical damage (e.g., from road debris) can impair its function.
- **AC System Not Engaging:**
 - While less common for the condenser itself to cause this directly, a severe leak in the condenser can cause the system pressure to drop below the threshold required for the compressor to engage.
- **Visible Leaks:**
 - Oily residue or refrigerant stains on or around the condenser indicate a leak.

For any significant AC system issues, it is strongly recommended to consult a professional automotive technician for diagnosis and repair.

7. SPECIFICATIONS

Attribute	Specification
Model Number	134025
Brand	APDTY
Item Weight	Approximately 1 pound
OEM Part Numbers Replaced	55037618AH, 55037618AD
Position	Front

8. SAFETY INFORMATION AND PROPOSITION 65 WARNING

⚠ **California Proposition 65 WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. Always handle automotive parts with care. Ensure proper ventilation when working in enclosed spaces. Dispose of old parts and fluids responsibly according to local regulations.

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, returns, or technical support for your APDTY 134025 AC Air Conditioning Condenser Assembly, please contact the seller or manufacturer directly. Retain your proof of purchase for any warranty claims.

Manufacturer: APDTY

For further assistance, you may visit the APDTY store on Amazon:[APDTY Store](#)

