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## CM COMPRESSOR CL3580

# AC Condenser Instruction Manual

Brand: CM COMPRESSOR | Model: CL3580

## 1. PRODUCT OVERVIEW

This manual provides essential information for the CM COMPRESSOR AC Condenser, designed for optimal performance in 2004-2015 Toyota Yaris and 2008-2014 Scion xD vehicles. The A/C condenser is a critical component of your vehicle's air conditioning system, responsible for dissipating heat and converting refrigerant from a gas to a liquid state.

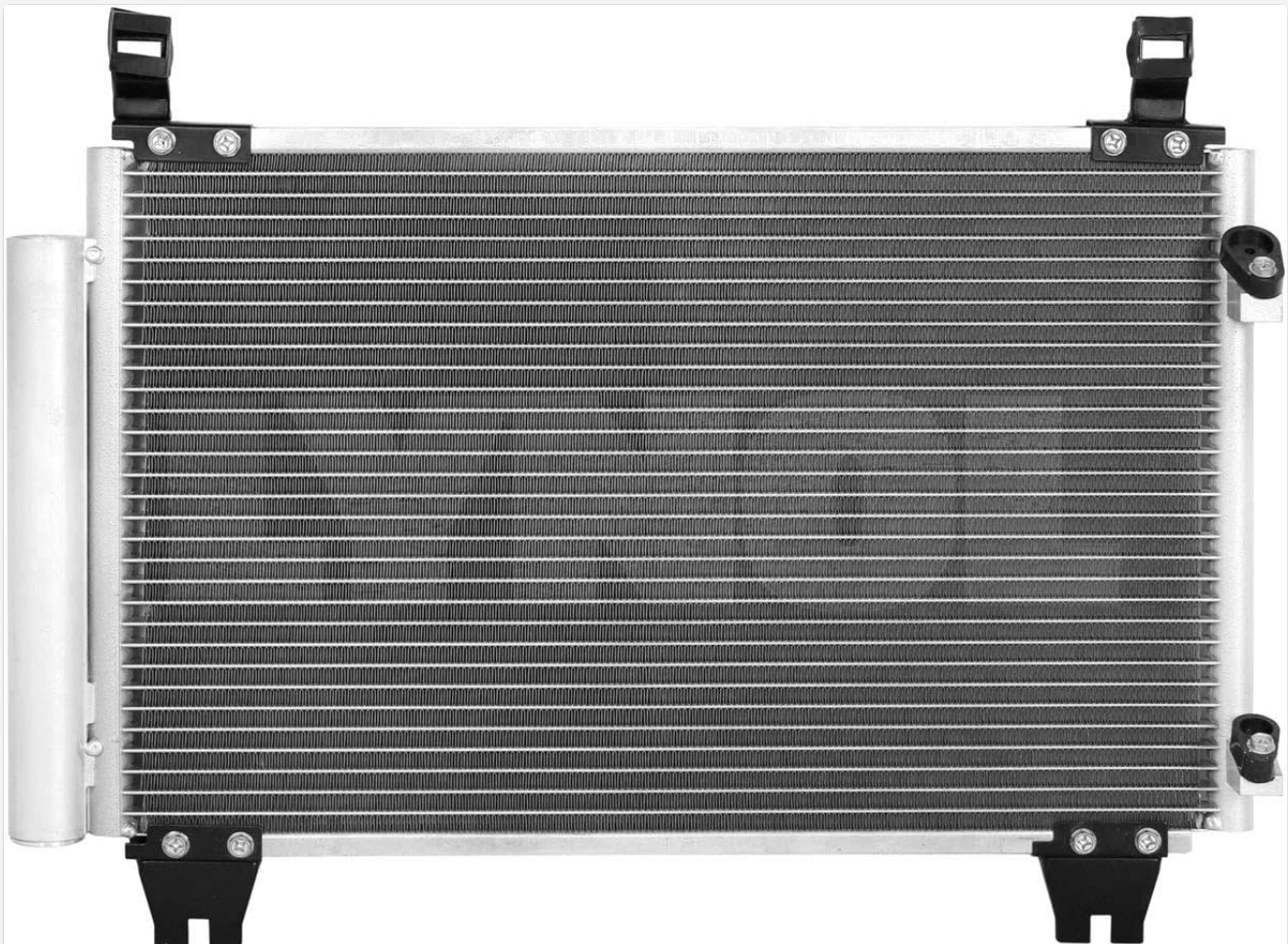


Figure 1: Front view of the CM COMPRESSOR AC Condenser.

## 2. FEATURES AND FUNCTION

The CM COMPRESSOR AC Condenser is engineered with high-strength aluminum material, ensuring durability, rigidity, and wear resistance for long-term use. It is designed to enhance corrosion resistance and has been rigorously tested under various weather conditions, making it suitable for high humidity environments.

- **Function:** The condenser acts as a heat exchanger, condensing the refrigerant from a gas to a liquid. This liquid refrigerant then flows to the evaporator inside the dashboard, where it cools the vehicle's cabin.
- **Material:** Constructed from high-strength aluminum for durability and wear resistance.
- **Performance:** Enhanced corrosion resistance, tested for tough weather conditions and high humidity areas.
- **Quality Assurance:** Each unit undergoes leakage, durability, and vibration testing to ensure noise reduction and optimized driver/passenger comfort.

### CONDENSER

The Condenser is responsible for making the heat exchange of the air conditioner, so it is one of the most important components of the system.

When functioning properly, it assures the distribution of the refrigerant gas at the correct temperature, ensuring the integrity of the system.



Figure 2: Advanced engineering for effective cooling and high-performance fixings.

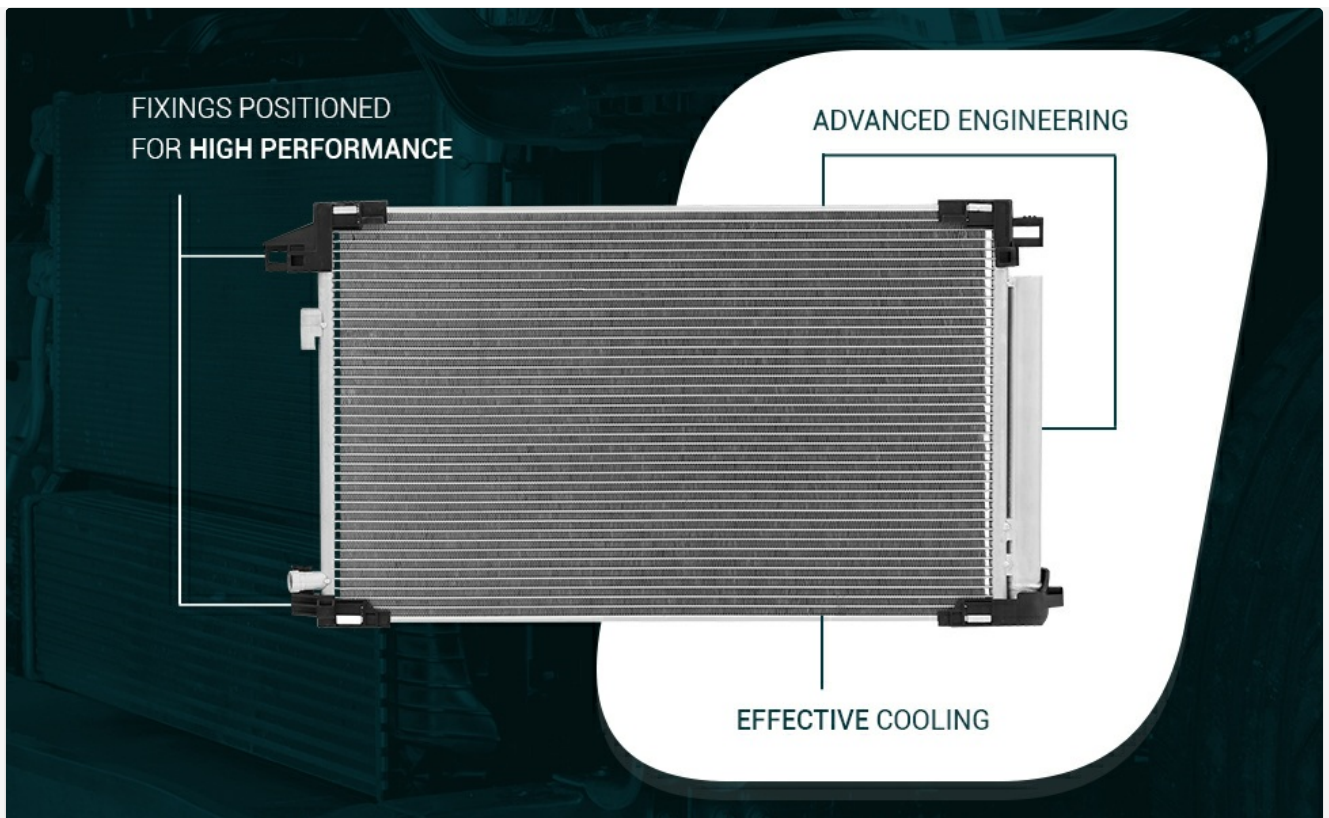


Figure 3: Overview of the Air Conditioning System, highlighting the condenser's role.

### 3. INSTALLATION AND SETUP

Installation of an A/C condenser requires specialized knowledge and tools. It is highly recommended that this component be installed by a qualified professional mechanic. Improper installation can lead to system damage, refrigerant leaks, and personal injury.

**ATTENTION:**

Use the appropriate workshop manual for your specific vehicle model to obtain detailed installation instructions. If you are unsure about the installation process or do not have access to an installation manual, please seek assistance from a qualified professional.

# AIR CONDITIONING SYSTEM

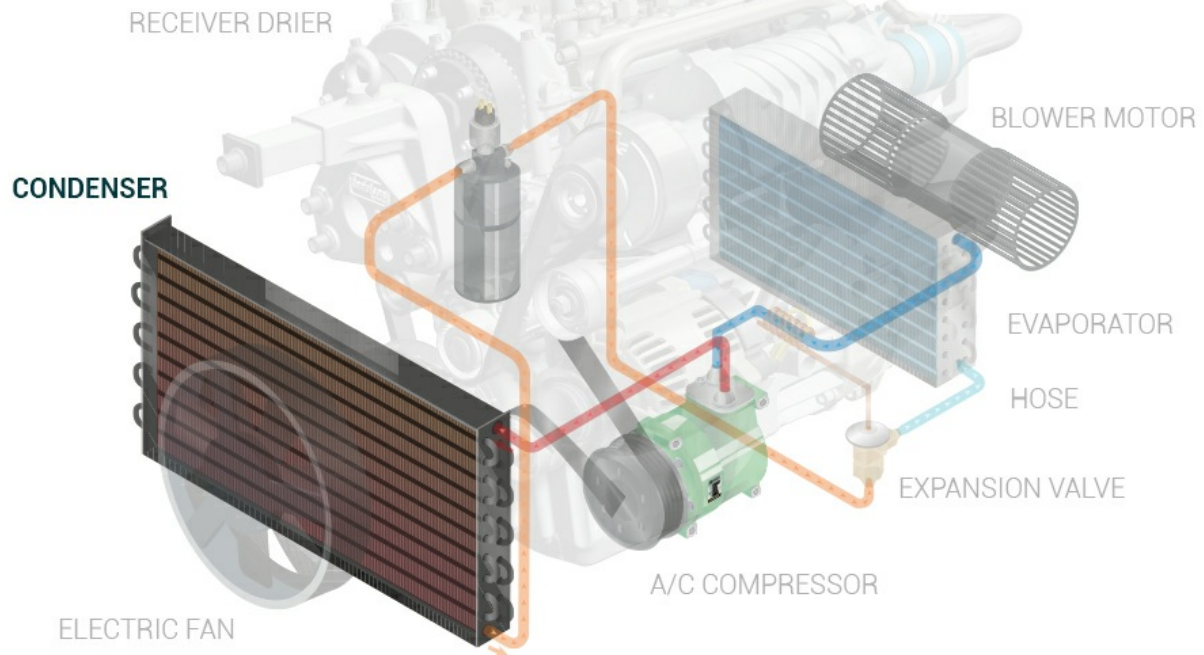


Figure 4: Important notice regarding professional installation.

## 4. OPERATING PRINCIPLES

Once installed, the AC condenser operates as an integral part of your vehicle's air conditioning system. It works in conjunction with the compressor, evaporator, and expansion valve to circulate refrigerant, absorb heat from the cabin, and release it to the outside environment, thereby cooling the interior of your vehicle.

## 5. MAINTENANCE

While the condenser itself requires minimal direct maintenance, ensuring the overall health of your vehicle's AC system will prolong its lifespan. Regular maintenance practices include:

- Periodically inspect the condenser fins for debris (leaves, bugs, dirt) and gently clean them to ensure proper airflow.
- Check for any visible signs of damage or corrosion on the condenser.
- Have your vehicle's AC system professionally inspected and recharged as recommended by your vehicle manufacturer.

## 6. TROUBLESHOOTING: SYMPTOMS OF A BAD CONDENSER

If your vehicle's air conditioning system is not performing optimally, the condenser might be a contributing factor. Common symptoms of a failing or damaged condenser include:

- Reduced cooling performance from the AC system.
- Visible damage such as a smashed condenser frame or honeycomb.

- Evidence of leakage of refrigerant gas and/or oil on or around the condenser unit.

If you observe any of these symptoms, it is advisable to consult a qualified mechanic for diagnosis and potential replacement.



## SYMPTOMS OF A BAD CONDENSER

- Smashed in the condenser frame or honeycomb; 
- Leakage of gas and/or oil on the Condenser. 
- \* To identify if replacement is needed, consult your mechanic. 

Figure 5: Common symptoms indicating a potential issue with the AC condenser.

## 7. SPECIFICATIONS

Specification	Detail
Manufacturer	CM Compressor
Brand	CM COMPRESSOR
Model Number	CL3580
Item Weight	7 pounds
Core Height	20 5/8 inches
Core Thickness	11/16 inches
Core Width	12 1/2 inches
Product Type	Auto A/C Condenser
ASIN	B08SF71C5X
Date First Available	January 7, 2021

## 8. SUPPORT AND CONTACT

For any questions regarding the CM COMPRESSOR AC Condenser, installation, or troubleshooting, please contact our support team. We are committed to providing responsive support to help resolve any issues you may encounter. You may reach out to the seller, Qualy Air, for assistance.



Figure 6: Our support team is ready to assist you.