MAHLE CR 1711 000P

MAHLE Behr CR 1711 000P Radiator User Manual

Model: CR 1711 000P | Brand: MAHLE

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your MAHLE Behr CR 1711 000P Radiator. Please read this manual thoroughly before proceeding with any procedures to ensure safe and efficient use.

The MAHLE Behr CR 1711 000P Radiator is a critical component of a vehicle's coolant module, designed to efficiently dissipate heat generated by the engine. It consists of a radiator core and water tanks, along with necessary connections and attachment elements. Heat from engine combustion is absorbed by the coolant and then released into the external air via the radiator, which is typically installed in the vehicle's front air flow.

2. Product Components

The MAHLE Behr CR 1711 000P Radiator package typically includes:

- One (1) MAHLE Behr CR 1711 000P Radiator unit.
- Integrated water tanks and core.
- Necessary connections and attachment points for vehicle integration.



Figure 2.1: Front view of the MAHLE Behr CR 1711 000P Radiator, showing the core and tank structure.



Figure 2.2: Angled view of the MAHLE Behr CR 1711 000P Radiator, highlighting its compact design.

3. Specifications

Attribute	Detail
Manufacturer	MAHLE
Brand	MAHLE
Model Name	Radiator
Item Model Number	CR 1711 000P
Item Weight	15.43 pounds (approx. 7.0 kg)

Attribute	Detail
Product Dimensions (L x W x H)	33.46 x 4.72 x 24.41 inches (approx. 85 x 12 x 62 cm)
Country of Origin	South Africa
Material	High Quality Plastic Tank and Aluminum Core
Position	Left (as specified for certain applications)
OEM Part Numbers	BEHR HELLA SERVICE 376782071, 8MK 376 782-071; BMW (BRILLIANCE) 17117542199, 17117562079, 7542199, 7562079; BMW 17117542199, 17117562079, 7542199, 7562079; MAHLE CR1711000P

4. Key Features

- **Maximum Cooling Efficiency:** Engineered to provide optimal heat dissipation for engine cooling.
- **100% Leak Tested:** All complete radiators undergo rigorous leak testing to ensure reliability.
- **Direct Fit Design:** No modifications are required for proper installation, ensuring a seamless replacement.
- **OEM Quality:** MAHLE radiators are trusted by Original Equipment Manufacturers (OEMs) and technicians globally.
- **Durable Construction:** Features a high-quality plastic tank and an aluminum core for longevity and performance.
- **Vehicle Test-Fitted:** Each radiator is test-fitted in vehicles prior to market release to guarantee a perfect drop-in fit.

5. Setup and Installation

Installation of a radiator requires mechanical expertise and specialized tools. It is highly recommended that installation be performed by a qualified automotive technician.

5.1 Pre-Installation Checks

1. Verify that the new radiator matches the specifications and part numbers of the original unit.
2. Inspect the radiator for any shipping damage before installation.
3. Ensure all necessary tools and safety equipment are available.

5.2 Installation Steps (General Guidance)

Note: *Always refer to your vehicle's specific service manual for detailed, model-specific installation instructions.*

1. Safely lift and secure the vehicle.
2. Drain the existing coolant from the system.
3. Disconnect all hoses, sensors, and mounting brackets from the old radiator.
4. Carefully remove the old radiator.
5. Install the new MAHLE Behr CR 1711 000P Radiator, ensuring all connections align correctly.
6. Reconnect all hoses, sensors, and secure mounting brackets.
7. Refill the cooling system with the appropriate coolant mixture, following vehicle manufacturer guidelines.
8. Bleed the cooling system to remove any trapped air.
9. Check for leaks after refilling and during initial operation.

6. Operation

Once installed, the radiator operates as an integral part of the vehicle's engine cooling system. Its primary function is to transfer heat from the engine coolant to the ambient air, maintaining optimal engine operating temperatures.

- Coolant circulates through the engine, absorbing heat.
- Heated coolant flows into the radiator's inlet tank and then through the radiator core.
- As coolant passes through the thin tubes of the core, air flowing over the fins dissipates the heat.
- Cooled coolant exits the radiator's outlet tank and returns to the engine to repeat the cycle.

Proper operation relies on a fully functional cooling system, including the water pump, thermostat, hoses, and cooling fan.

7. Maintenance

Regular maintenance of the cooling system is crucial for the longevity and performance of your MAHLE Behr Radiator and the overall vehicle.

7.1 Recommended Maintenance Schedule

- **Regularly:** Check coolant level and condition. Top up or replace as needed with the manufacturer-specified coolant.
- **Annually:** Inspect radiator fins for debris (leaves, insects, dirt) and carefully clean them to ensure unobstructed airflow. Use low-pressure air or water.
- **Every 2-5 Years (or as per vehicle manual):** Flush and replace the entire cooling system coolant. This prevents corrosion and buildup that can reduce radiator efficiency.
- **Periodically:** Inspect radiator hoses for cracks, swelling, or leaks. Check hose clamps for tightness.

7.2 Cleaning Instructions

To clean the exterior of the radiator:

1. Ensure the engine is cool.
2. Use a soft brush or compressed air (low pressure) to remove loose debris from the fins.
3. For stubborn dirt, a gentle stream of water can be used, ensuring not to bend the delicate fins.
4. Avoid harsh chemicals or high-pressure washers, which can damage the radiator.

8. Troubleshooting

If you experience issues with your vehicle's cooling system, the radiator may be a contributing factor. Here are some common symptoms and potential causes:

Symptom	Possible Cause	Action
Engine Overheating	Low coolant level, clogged radiator fins, internal radiator blockage, faulty thermostat, failing water pump, cooling fan issue.	Check coolant level, clean radiator fins, inspect for leaks, test thermostat and water pump, check cooling fan operation.
Coolant Leaks	Damaged radiator core/tanks, loose hose clamps, cracked hoses, faulty radiator cap.	Visually inspect radiator, hoses, and connections for signs of leaks. Tighten clamps or replace damaged components.

Symptom	Possible Cause	Action
Reduced Heater Performance	Low coolant level, air in cooling system, clogged heater core.	Check coolant level, bleed cooling system, inspect heater core.
Discolored or Rusty Coolant	Old coolant, internal corrosion in cooling system.	Flush and refill cooling system with fresh, appropriate coolant.

For complex issues or if you are unsure about diagnosing a problem, it is always best to consult a professional automotive technician.

9. Warranty and Support

MAHLE products are manufactured to high standards of quality and reliability. For specific warranty information regarding your MAHLE Behr CR 1711 000P Radiator, please refer to the warranty documentation included with your purchase or visit the official MAHLE website.

For technical support, product inquiries, or assistance with warranty claims, please contact MAHLE customer service or an authorized MAHLE distributor. You can often find contact information on the MAHLE official website or through your point of purchase.

MAHLE Official Website: www.mahle.com

Note: Warranty terms and conditions may vary by region and retailer. Keep your proof of purchase for warranty purposes.

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