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› UAC Radiator RA 2090C User Manual

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UAC Radiator RA 2090C User Manual

Model: RA 2090C

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of the UAC Radiator RA 2090C. Designed as a direct replacement part, this radiator is engineered to meet or exceed OEM specifications for specific vehicle applications, ensuring efficient engine cooling.

The UAC Radiator RA 2090C is a brand new replacement radiator, part of UAC's premier aftermarket brand lineup with over 30 years of industry experience.

PRODUCT OVERVIEW



Figure 1: Front view of the UAC Radiator RA 2090C, showcasing the core and inlet/outlet connections.



Figure 2: Angled view of the UAC Radiator RA 2090C, highlighting the mounting points and overall construction.

What's in the Box

- One (1) UAC Radiator RA 2090C
- Body, Trim & Crash Parts; Radiator Supports/Shock Towers (as listed in product details)

SAFETY INFORMATION

WARNING:

- Always allow the engine to cool completely before attempting any work on the cooling system. Hot coolant and steam can cause severe burns.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when handling automotive fluids and components.
- Dispose of old coolant and other automotive fluids responsibly according to local regulations.
- If you are unsure about any installation steps, consult a qualified automotive technician.
- Ensure the vehicle is securely supported on jack stands before working underneath it.

SETUP AND INSTALLATION

This radiator is designed for direct fitment in the following vehicle applications:

- 1994-1998 Toyota T100 2.7L with 1 Row Equivalent
- 1995-1998 Toyota T100 3.4L with 1 Row Equivalent

Installation Steps (General Guide):

1. Preparation:

- Park the vehicle on a level surface and engage the parking brake.
- Allow the engine to cool completely.
- Disconnect the negative terminal of the battery.
- Place a drain pan under the radiator drain cock.

2. Draining Coolant:

- Open the radiator drain cock and remove the radiator cap to allow the coolant to drain completely.
- Properly dispose of the old coolant.

3. Disassembly:

- Remove the upper and lower radiator hoses.
- Disconnect any transmission cooler lines (if applicable).
- Remove any fan shrouds, electric fans, or other components obstructing radiator removal.
- Unbolt the radiator from its mounting points.
- Carefully lift the old radiator out of the engine bay.

4. Installation of New Radiator:

- Carefully lower the new UAC Radiator RA 2090C into position, ensuring it seats correctly in the mounting points.
- Secure the radiator with its bolts.
- Reconnect the upper and lower radiator hoses, ensuring clamps are tight.
- Reconnect transmission cooler lines (if applicable).
- Reinstall fan shrouds, electric fans, and any other removed components.

5. Refilling Coolant:

- Close the radiator drain cock.
- Fill the radiator with the manufacturer-recommended coolant mixture.
- Bleed the cooling system to remove any trapped air. Refer to your vehicle's service manual for specific bleeding procedures.

6. Final Checks:

- Reconnect the battery.
- Start the engine and allow it to reach operating temperature, monitoring for leaks and proper fan operation.
- Check coolant level after the engine cools down and top off if necessary.

For detailed vehicle-specific instructions, always consult your vehicle's official service manual.

The UAC Radiator RA 2090C functions as a critical component of your vehicle's engine cooling system. Its primary role is to dissipate excess heat from the engine coolant into the ambient air, preventing engine overheating. Coolant flows from the engine, through the radiator's core, where heat is transferred to the fins. Air passing over these fins (aided by the vehicle's movement and/or cooling fans) carries the heat away. The cooled coolant then returns to the engine to absorb more heat, completing the cycle. Proper operation relies on a fully functional cooling system, including the water pump, thermostat, hoses, and adequate coolant levels.

MAINTENANCE

Regular maintenance of your vehicle's cooling system, including the radiator, is essential for longevity and optimal performance.

- **Coolant Level Check:** Regularly check the coolant level in the overflow reservoir and the radiator (when cold). Top up with the correct coolant type as needed.
- **Coolant Flush and Replacement:** Follow your vehicle manufacturer's recommended schedule for coolant flushes and replacement. This prevents corrosion and maintains cooling efficiency.
- **Hose Inspection:** Periodically inspect radiator hoses for cracks, swelling, or softness. Replace any damaged hoses promptly.
- **Radiator Cap Inspection:** Ensure the radiator cap is clean and its rubber seals are intact. A faulty cap can lead to cooling system issues.
- **Radiator Core Cleaning:** Gently clean the exterior of the radiator fins to remove debris (leaves, insects, dirt) that can impede airflow. Use a soft brush or low-pressure air/water. Avoid bending the fins.
- **Leak Detection:** Visually inspect the radiator and surrounding components for any signs of coolant leaks. Address leaks immediately.

TROUBLESHOOTING

Symptom	Possible Cause	Solution
Engine Overheating	Low coolant level, clogged radiator fins, faulty thermostat, failing water pump, air in cooling system.	Check coolant level and top up. Clean radiator fins. Inspect and replace thermostat/water pump if necessary. Bleed cooling system.
Coolant Leaks	Damaged radiator, loose hoses/clamps, faulty radiator cap, cracked reservoir.	Inspect radiator for damage. Tighten or replace hoses/clamps. Replace radiator cap. Repair or replace cracked components.
Poor Heater Performance	Low coolant level, air in cooling system, clogged heater core.	Check coolant level. Bleed cooling system. Consult a technician for heater core issues.

If troubleshooting steps do not resolve the issue, it is recommended to consult a certified automotive technician.

SPECIFICATIONS

Attribute	Value
Product Type	Auto Part

Attribute	Value
Brand	UAC
Model	RA 2090C
Item Weight	1 pounds
Product Dimensions	37 x 26 x 8 inches
Manufacturer Part Number	RA 2090C
Depth (mm)	32
Height (mm)	452
Inlet (mm)	35
Length (mm)	688
Outlet (mm)	35
Country Of Origin	China

WARRANTY AND SUPPORT

UAC products are manufactured to high-quality standards. For specific warranty information, please refer to the warranty documentation included with your purchase or visit the official UAC website.

For technical support or inquiries regarding the UAC Radiator RA 2090C, please contact UAC customer service through their official channels. Keep your purchase receipt and product model number (RA 2090C) readily available when contacting support.

You can find more information about UAC products and support at [www.uacparts.com](#) (example link, actual link not provided in input).

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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