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› Griffin Radiator 1-56182-X MaxCool Universal Race Radiator User Manual

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Model: 1-56182-X

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Griffin Radiator 1-56182-X MaxCool Universal Race Radiator. This high-performance radiator features a 2-row design with 1.25-inch tubes, designed for optimal cooling in demanding race applications. Please read this manual thoroughly before installation and use to ensure safety and product longevity.



Image: The Griffin Radiator 1-56182-X MaxCool Universal Race Radiator, showcasing its aluminum construction, core fins, and inlet/outlet ports. The top right port is the inlet, and the bottom left port is the outlet.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and lifespan of your radiator. It is recommended that installation be performed by a qualified professional.

Pre-Installation Checklist:

- Verify all components are present and undamaged.
- Ensure the mounting location is clean and free of debris.
- Confirm compatibility with your vehicle's cooling system and engine.
- Have appropriate tools and coolant ready.

Installation Steps:

1. Drain the existing cooling system completely.
2. Remove the old radiator and associated hoses.

- Carefully position the new Griffin radiator into the mounting location.
- Secure the radiator using appropriate mounting hardware.
- Connect the 1.5-inch inlet hose to the top right port and the 1.75-inch outlet hose to the bottom left port.
- Connect any additional hoses (e.g., overflow, heater core) as required by your vehicle's setup.
- Refill the cooling system with the recommended coolant, ensuring no air pockets remain.
- Inspect all connections for leaks.
- Run the engine to operating temperature and re-check coolant levels and for leaks.

Note: This radiator does not include provisions for a transmission cooler or engine oil cooler. If your application requires these, external coolers must be used.

OPERATING GUIDELINES

Once installed, the Griffin MaxCool radiator operates as part of your vehicle's cooling system. Monitor your engine's temperature gauge regularly to ensure proper cooling performance.

Coolant Management:

- Always use the manufacturer-recommended coolant type and mixture ratio.
- Check coolant levels before each race or demanding operation.
- Never open the radiator cap when the engine is hot.

Performance Notes:

This radiator is rated for a maximum horsepower of 400 HP. With the addition of electric fans, it can handle up to 600 HP. Optimal performance is achieved when the cooling system is free of air and properly maintained.

MAINTENANCE

Regular maintenance will extend the life and efficiency of your Griffin radiator.

Routine Checks:

- Visual Inspection:** Periodically inspect the radiator for any signs of leaks, damage to fins, or corrosion.
- Cleanliness:** Keep the radiator fins clean and free of debris (leaves, insects, dirt) to ensure optimal airflow. Use low-pressure air or water to clean the fins from the back side if possible.
- Hose and Clamp Inspection:** Check all hoses for cracks, swelling, or hardening, and ensure clamps are tight.
- Coolant Flush:** Follow your vehicle manufacturer's recommendations for coolant flush intervals.

Do not use harsh chemicals or abrasive tools for cleaning, as this can damage the aluminum fins.

TROUBLESHOOTING

This section addresses common issues you might encounter with your cooling system.

Problem	Possible Cause	Solution
Engine Overheating	Low coolant level, clogged fins, faulty thermostat, air in system, insufficient airflow.	Check and top up coolant. Clean radiator fins. Inspect thermostat. Bleed air from system. Ensure fan operation.

Problem	Possible Cause	Solution
Coolant Leak	Loose hose clamps, damaged hose, crack in radiator, faulty radiator cap.	Tighten clamps. Replace damaged hoses. Inspect radiator for damage (repair or replace). Replace radiator cap.
Poor Heater Performance	Low coolant level, air in system, clogged heater core.	Check coolant level. Bleed air from system. Consult a professional for heater core issues.

If you are unable to resolve an issue, consult a certified automotive technician.

SPECIFICATIONS

Feature	Detail
Model Number	1-56182-X
Brand	Griffin
Tube Size	1.25 inches (2 rows)
Overall Height (incl. filler neck)	19.6 inches
Overall Width (excl. mounting brackets)	22 inches
Core Height	18.81 inches
Core Width	17 inches
Core Thickness	3 inches
Inlet Size	1.5 inches
Inlet Location	Top Right
Outlet Size	1.75 inches
Outlet Location	Bottom Left
Finish	Natural
Transmission Cooler	No
Engine Oil Cooler	No
Max Horsepower Rating	400 HP (600 HP with electric fans)
Item Weight	25.0 pounds
Package Dimensions	35.5 L x 23.5 H x 8.5 W (inches)

WARRANTY AND SUPPORT

For specific warranty information and technical support regarding your Griffin Radiator, please contact Griffin Radiator directly. Refer to the contact information provided with your purchase or visit the official Griffin Radiator website. For general inquiries or to speak with a representative, you may call 800-RACERAD as mentioned in the product description for specific dimensions or fan shroud provisions.

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.

Name

Anonymous

Email

you@example.com

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