

TYC 13398

TYC 13398 Radiator Instruction Manual

Model: 13398 | Brand: TYC

INTRODUCTION

The TYC 13398 Radiator is engineered to restore your vehicle's factory cooling efficiency. It is constructed to be equivalent to Original Equipment (OE) specifications regarding the number and placement of fluid tubes and cooling fins. Radiators equipped with transmission oil coolers feature tanks molded from heat-resistant, high-density polymer plastic, providing enhanced protection against extreme engine temperatures. Each TYC radiator undergoes rigorous leak-testing prior to leaving the factory, ensuring consistent quality and reliable performance.

PRODUCT OVERVIEW

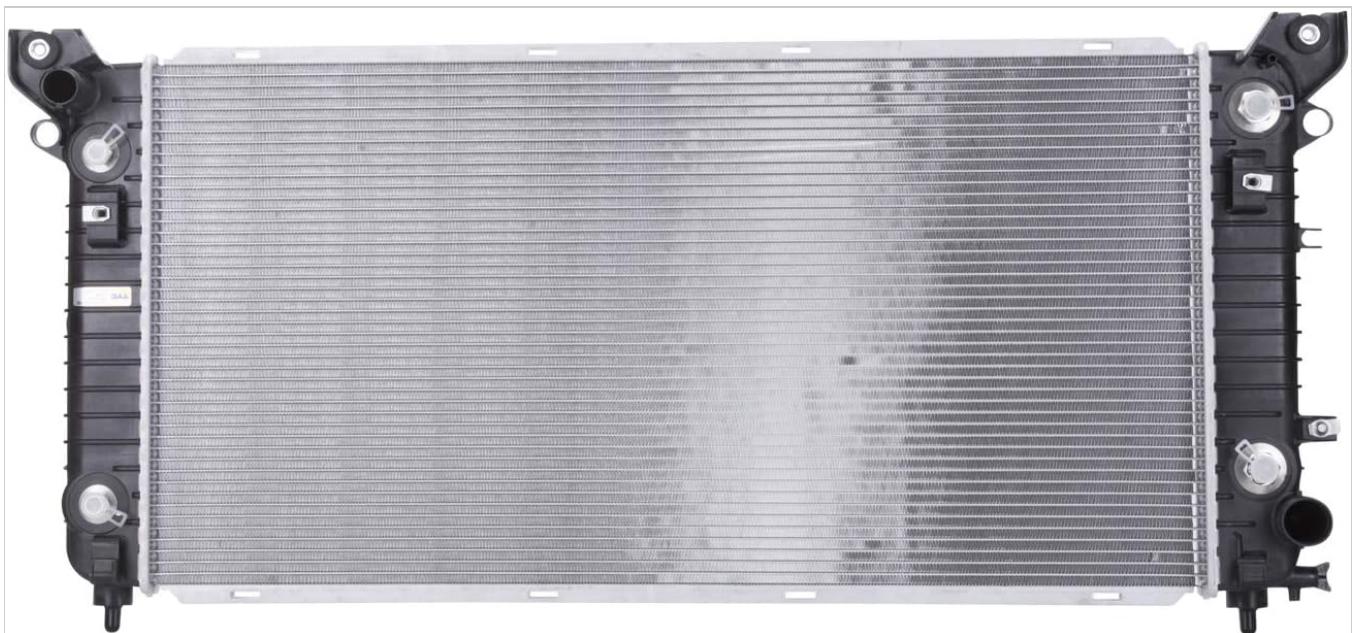


Figure 1: Front view of the TYC 13398 Radiator, showcasing the core and end tanks. This image provides a comprehensive look at the radiator's overall structure and design, highlighting its robust construction.

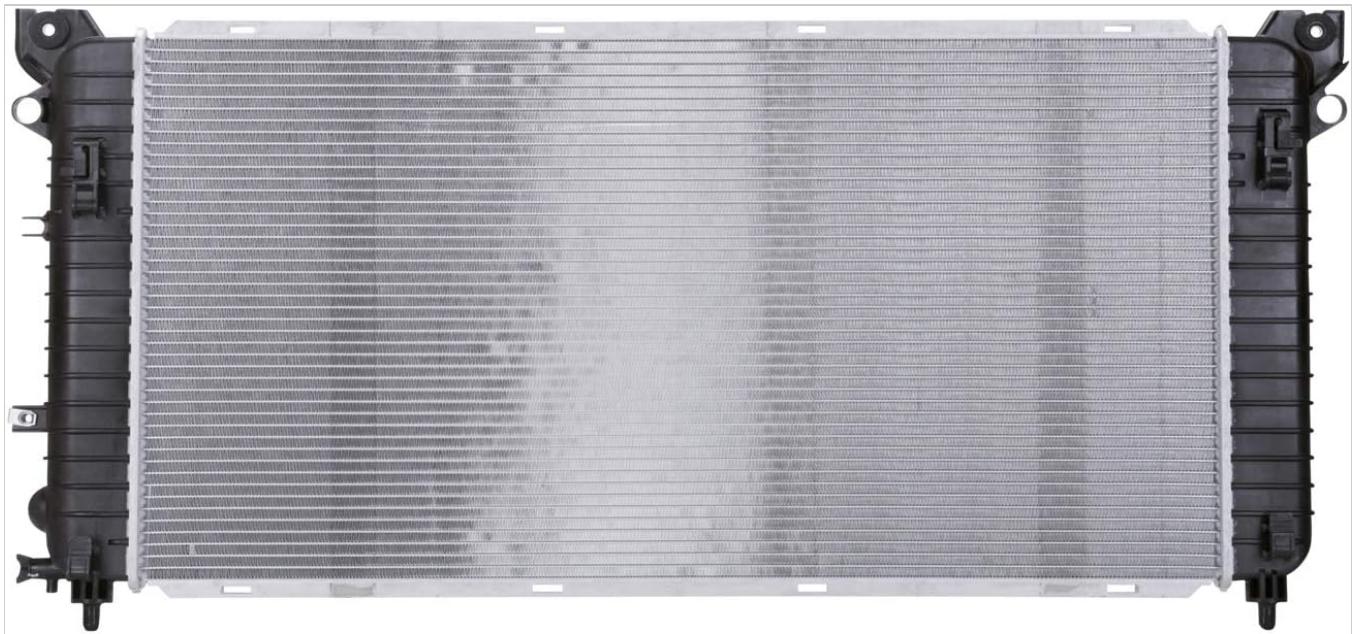


Figure 2: Rear view of the TYC 13398 Radiator, showing the mounting points and the reverse side of the core. This perspective is useful for understanding how the radiator integrates into the vehicle's chassis.



Figure 3: Detailed close-up of the radiator's upper inlet/outlet connection point, illustrating the precision molding of the plastic tank and the secure fitting for hoses. This view emphasizes the quality of the connection points.



Figure 4: Close-up of the radiator's lower section, highlighting the drain plug and potential sensor port. This image details the features designed for maintenance and system integration.

SETUP AND INSTALLATION

Installation of a vehicle radiator requires specialized tools and knowledge. It is highly recommended that installation be performed by a certified automotive technician to ensure proper fitment and function, and to prevent damage to the vehicle or the new component.

Key Installation Considerations:

- **Direct OE Replacement:** The TYC 13398 Radiator is designed for direct OE replacement, ensuring a precise drop-in fitment. This facilitates easier installation compared to non-OE compatible parts.
- **Coolant System Preparation:** Before installation, ensure the old coolant system is completely drained and flushed. Use the vehicle manufacturer's recommended coolant type and mixture.
- **Hose and Clamp Inspection:** Inspect all radiator hoses and clamps. It is advisable to replace old or worn hoses and clamps during radiator replacement to prevent future leaks.

- **Air Bleeding:** After installation and refilling the coolant, properly bleed the cooling system to remove any trapped air. Air pockets can lead to inefficient cooling and potential engine damage. Refer to your vehicle's service manual for specific bleeding procedures.
- **Transmission Cooler Lines (if applicable):** If your vehicle's radiator includes a transmission oil cooler, ensure the transmission lines are properly connected and secured, and check for leaks after refilling.

Always consult your vehicle's specific service manual for detailed, step-by-step instructions pertinent to your make and model year.

OPERATING PRINCIPLES

The radiator is a critical component of your vehicle's engine cooling system. Its primary function is to dissipate excess heat generated by the engine into the ambient air. Coolant circulates through the engine, absorbing heat, and then flows into the radiator. Within the radiator, the hot coolant passes through a series of tubes and fins, which maximize the surface area exposed to airflow. As air passes over these heated surfaces, heat is transferred from the coolant to the air, cooling the fluid before it returns to the engine to repeat the cycle.

Ensuring Optimal Operation:

- **Maintain Proper Coolant Levels:** Regularly check your coolant reservoir and ensure the coolant level is between the minimum and maximum marks when the engine is cold. Low coolant levels can lead to overheating.
- **Use Correct Coolant Type:** Always use the type of coolant specified by your vehicle manufacturer. Mixing different types or using incorrect coolant can cause damage to the cooling system components.
- **Monitor Temperature Gauge:** Pay attention to your vehicle's engine temperature gauge. If it consistently reads higher than normal, or if the warning light illuminates, pull over safely and investigate the cause.

MAINTENANCE

Regular maintenance of your cooling system, including the radiator, is essential for prolonging its lifespan and ensuring efficient engine operation.

Recommended Maintenance Practices:

- **Coolant Level Checks:** Check coolant levels at least once a month. Top off with the correct coolant mixture if necessary.
- **Coolant Flush and Replacement:** Follow your vehicle manufacturer's recommendations for coolant flush and replacement intervals. Old coolant loses its protective properties over time.
- **Visual Inspection for Leaks:** Periodically inspect the radiator, hoses, and connections for any signs of leaks, corrosion, or damage. Look for coolant stains or drips under the vehicle.
- **Radiator Fin Cleaning:** Over time, debris (leaves, insects, dirt) can accumulate on the radiator fins, reducing airflow and cooling efficiency. Carefully clean the fins with a soft brush or low-pressure air/water spray, ensuring not to bend or damage them.
- **Hose and Clamp Inspection:** Check radiator hoses for cracks, swelling, or softness. Ensure all hose clamps are tight and secure.

TROUBLESHOOTING

If you experience issues with your vehicle's cooling system, it's important to address them promptly to prevent engine damage. Below are common symptoms and potential causes related to radiator function.

Symptom	Potential Cause	Action
Engine Overheating	Low coolant level, clogged radiator fins, internal radiator blockage, faulty thermostat, failing water pump, air in cooling system.	Check coolant level. Inspect radiator for debris. Consult a professional for system diagnosis and repair.
Coolant Leaks	Damaged radiator (cracks in tanks, core damage), loose or cracked hoses, faulty hose clamps, leaking water pump, leaking thermostat housing.	Visually inspect for leak source. Tighten clamps. Replace damaged hoses or radiator. Seek professional repair for internal leaks.
Reduced Heater Performance	Low coolant level, air in cooling system, clogged heater core.	Check coolant level and bleed air from system. If problem persists, professional diagnosis is recommended.

For any persistent or complex cooling system issues, it is always best to consult a qualified automotive mechanic.

SPECIFICATIONS

Model: TYC 13398 Replacement Radiator

Part Number: 13398

OEM Part Number: 84062174

ABPA Partslink Number: GM3010565

Item Weight: Approximately 5 pounds

Country of Origin: Taiwan

Construction: Premium grade aluminum tubes and fins, high-density polymer plastic tanks.

Compatibility: Compatible with 2014-2019 Chevrolet Silverado 1500 (Please verify fitment for your specific vehicle configuration).

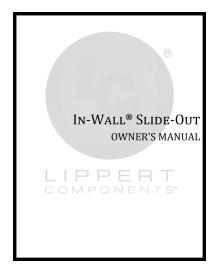
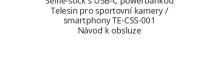
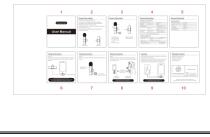
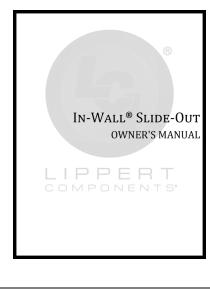
WARRANTY INFORMATION

For specific warranty terms and conditions regarding the TYC 13398 Radiator, please refer to the warranty documentation provided with your purchase or contact TYC directly. Warranty coverage typically addresses manufacturing defects and material flaws under normal use and service. Keep your proof of purchase for any warranty claims.

SUPPORT

Should you require technical assistance, have questions regarding installation, or need to inquire about product compatibility, please contact TYC customer support. For the most current contact information, please visit the official TYC website or refer to the packaging materials.

Note: For vehicle-specific repair procedures or complex diagnostic issues, always consult a qualified automotive professional.

	<p>Lippert In-Wall® Slide-Out Owner's Manual Comprehensive owner's manual for the Lippert In-Wall Slide-Out system, covering operation, safety, troubleshooting, maintenance, and repair for RV slide-out rooms.</p>
TELESIN  Selfie-stick s USB-C powerbankou Telesin pro sportovní kamery / smartphony TE-CSS-001 Návod k obsluze	<p>TELESIN TE-CSS-001 Selfie Stick s USB-C Power Bankou - Návod k obsluze Podrobný návod k obsluze pro TELESIN TE-CSS-001 selfie tyč s integrovanou USB-C powerbankou pro sportovní kamery a smartphony. Obsahuje informace o montáži, použití, nabíjení, specifikacích, bezpečnosti a záruce.</p>
	<p>Enping Maisida TYC-2 Wireless Microphone System User Manual User manual for the Enping Maisida TYC-2 wireless microphone system, providing product details, setup instructions, specifications, troubleshooting tips, and FCC compliance information.</p>
	<p>Lippert In-Wall Slide-Out Owner's Manual: Operation, Maintenance, and Troubleshooting Comprehensive owner's manual for the Lippert In-Wall Slide-Out system, detailing operation, safety, maintenance, troubleshooting, and component identification for RV slide-out rooms.</p>
	<p>Lippert InWall Slideout Owner's Manual and Troubleshooting Guide Comprehensive owner's manual and troubleshooting guide for the Lippert InWall Slideout system, detailing error codes, manual override procedures, and common issue resolution for RV slideouts.</p>
	<p>Typecase Flexbook Touch Keyboard for iPad User Manual & Setup Guide Comprehensive user manual for the Typecase Flexbook Touch keyboard case, detailing setup, compatibility with iPadOS, touchpad functions, installation, troubleshooting, and product specifications.</p>

Documents - TYC – 13398

no relevant documents