



[Manuals.plus](#) /

› [LLNSEAUTO](#) /

› LLNSEAUTO Upper Intake Manifold with Gasket and Thermostat Kit Installation and Maintenance Manual

LLNSEAUTO E114-615175

LLNSEAUTO Upper Intake Manifold with Gasket and Thermostat Kit

MODEL: E114-615175

Installation and Maintenance Manual

1. Product Overview

The intake manifold is a critical component of your vehicle's engine, responsible for distributing the air-fuel mixture evenly to each cylinder. Proper functioning of the intake manifold ensures optimal engine efficiency and performance. This kit includes a new upper intake manifold, gaskets, a thermostat, and miscellaneous hardware for a complete replacement.



Image 1.1: Complete LLNSEAUTO Upper Intake Manifold Kit, including the manifold, thermostat, and various hardware components.

A compromised intake manifold, such as one with a leak, can lead to an imbalance in the air-fuel ratio entering the cylinders. This can result in reduced engine efficiency, poor performance, and potential damage over time. Replacing a faulty intake manifold with a high-quality unit like the LLNSEAUTO kit is essential for maintaining vehicle health.

2. Package Contents

Upon opening the package, verify that all components listed below are present and undamaged:

- 1X Upper Intake Manifold (Pre-assembled with gaskets)
- 1X Thermostat with Gasket & O-Ring
- 1X Miscellaneous Hardware Set (bolts, nuts, washers)
- 1X Bracket

Product includes:

Pre-Assembled:

1X Intake Manifold w/ Gaskets



Included in The Package:



**1X Thermostat
w/ Gasket & O-Ring**



1X Bracket



**1X Miscellaneous
Hardware Set**

Image 2.1: Visual representation of the pre-assembled intake manifold, thermostat with gasket and O-ring, bracket, and miscellaneous hardware included in the kit.

3. Product Specifications

This LLNSEAUTO Upper Intake Manifold Kit is designed to meet OEM specifications for fit and performance.

Key Product Specifications

Specification	Detail
Brand	LLNSEAUTO
Model Number	E114-615175
Item Weight	13.32 pounds
Package Dimensions	20.75 x 16.7 x 9.1 inches

Specification	Detail
Exterior Finish	Polished
Manufacturer Part Number	E114-615175

Compatible OE Part Numbers:

1L2Z9424FA

1W7Z 9424-AB

3W7Z 9424-AA

3W7Z 9424-AD

3W7Z 9424-AE

6W7Z9424AA

9W7Z9424A

615-175

Product Details:



Connect to
Fuel Injector



Thermostat
with O-Ring & Gasket



Metal Plug
Suit for Multiple Models



Image 3.1: Close-up views highlighting key features such as the connection point for fuel injectors, the thermostat with O-ring and gasket, and a metal plug suitable for multiple models.

Installation:

Direct Replacement
Includes Necessary Gasket &
Hardware for Easier Installation



Image 3.2: The intake manifold displayed alongside a list of its compatible Original Equipment (OE) part numbers.

4. Vehicle Compatibility

This Upper Intake Manifold Kit is compatible with various Ford, Mercury, and Lincoln models equipped with a V8 4.6L engine. Please verify your vehicle's make, model, and year against the list below:

- **Ford:**
 - 2001-2011 Crown Victoria V8 4.6L
 - 2002-2002 Explorer V8 4.6L (Up to March 4, 2002)
 - 1999-2004 Mustang V8 4.6L
- **Mercury:**
 - 2001-2011 Grand Marquis V8 4.6L
 - 2002-2002 Mountaineer V8 4.6L (Up to March 4, 2002)
- **Lincoln:**

- 2001-2011 Town Car V8 4.6L

This kit is suitable for vehicles manufactured between 1999 and 2011, depending on the specific model.

Compatible with:

Ford

2001-2011 Crown Victoria V8 4.6L | 2002-2002 Explorer V8 4.6L (To 3/04/02) |
1999-2004 Ford Mustang V8 4.6L |

Mercury

2001-2011 Grand Marquis V8 4.6L | 2002-2002 Mountaineer V8 4.6L (To 3/04/02) |

Lincoln

2001-2011 Town Car V8 4.6L |



Image 4.1: The intake manifold displayed with a comprehensive list of compatible Ford, Mercury, and Lincoln vehicle models and their respective years.

5. Installation (Setup)

The LLNSEAUTO Upper Intake Manifold Kit is designed as a direct replacement, including necessary gaskets and hardware for installation. Due to the complexity of engine components and the critical nature of this part, professional installation by a certified mechanic is highly recommended.

General Installation Considerations:

1. **Safety First:** Ensure the vehicle is cooled down, disconnected from the battery, and properly secured on a lift or jack stands.
2. **Component Removal:** Carefully remove all components obstructing access to the old intake manifold, including air intake, fuel lines, electrical connectors, and vacuum hoses. Labeling or photographing connections can aid reassembly.

3. **Old Manifold Removal:** Unbolt and remove the old intake manifold. Clean the mating surfaces on the cylinder heads thoroughly to ensure a proper seal with the new gaskets.
4. **New Manifold Installation:** Position the new gaskets and carefully place the LLNSEAUTO intake manifold onto the cylinder heads. Ensure proper alignment.
5. **Torque Specifications:** Tighten the manifold bolts to the manufacturer's specified torque settings and sequence. Refer to your vehicle's service manual for precise values.
6. **Thermostat Installation:** Install the new thermostat and O-ring into its housing, ensuring a tight seal.
7. **Reassembly:** Reconnect all fuel lines, electrical connectors, vacuum hoses, and other removed components.
8. **Fluid Refill:** Refill the cooling system with the appropriate coolant and bleed any air from the system.
9. **Leak Check:** After installation, start the engine and carefully check for any coolant, fuel, or vacuum leaks. Monitor engine temperature and performance.



Image 5.1: An illustration depicting the installation of the intake manifold within a vehicle's engine bay, highlighting its direct replacement design.

Failure to follow proper installation procedures can lead to engine damage or leaks. If you are not confident in performing this installation, seek assistance from a qualified automotive technician.

6. Operation

Once correctly installed, the LLNSEAUTO Upper Intake Manifold will function as an integral part of your engine's air intake system. It ensures that the precisely measured air-fuel mixture from the carburetor or fuel-injection system is delivered uniformly to each cylinder during its intake stroke. This uniform distribution is crucial for consistent combustion, optimal engine power, and fuel efficiency.

The included thermostat regulates the engine's operating temperature by controlling the flow of coolant. A properly functioning thermostat is vital for engine longevity and performance, ensuring the engine reaches and maintains its ideal operating temperature quickly and efficiently.

7. Maintenance

While the intake manifold itself typically requires minimal direct maintenance, regular inspection of surrounding components is recommended to ensure its continued optimal performance:

- **Visual Inspection:** Periodically check the intake manifold for any signs of cracks, damage, or coolant/oil leaks around the gasket mating surfaces.
- **Hose and Connector Check:** Inspect all vacuum hoses, fuel lines, and electrical connectors attached to the manifold for cracks, looseness, or corrosion. Ensure they are securely connected.
- **Coolant System:** Monitor your vehicle's coolant levels and condition. A properly functioning thermostat and leak-free cooling system are essential for engine health.
- **Gasket Integrity:** Although new gaskets are installed with this kit, extreme engine temperatures or vibrations over time can affect their integrity. Any signs of external leakage should be addressed promptly.

8. Troubleshooting

A leaking intake manifold can manifest several symptoms due to the disruption of the air-fuel mixture. If you experience any of the following, it may indicate an issue with the intake manifold or its gaskets:

- **Engine Misfires or Rough Idling:** An air leak can cause certain cylinders to run lean, leading to misfires, especially at idle.
- **Reduced Engine Performance:** The engine may feel sluggish, have reduced power, or poor acceleration due to an incorrect air-fuel ratio.
- **Decreased Fuel Economy:** An engine running lean due to an intake leak will often consume more fuel.
- **Coolant Leaks:** If the manifold has internal coolant passages, an internal leak can lead to coolant loss or mixing with oil. External coolant leaks may also be visible around the manifold.
- **Check Engine Light:** An intake manifold leak can trigger the Check Engine Light (CEL) with various diagnostic trouble codes (DTCs) related to lean conditions or misfires.
- **Sweet Smell:** A sweet smell from burning coolant can indicate an internal coolant leak.

Recommended Actions:

- **Professional Diagnosis:** If you suspect an intake manifold leak or other related issues, it is best to have your vehicle inspected by a qualified mechanic. They can perform diagnostic tests, such as a smoke test, to pinpoint the exact location of any leaks.
- **Address Promptly:** Ignoring an intake manifold leak can lead to more severe engine problems over time.

9. Warranty and Support

LLNSEAUTO stands behind the quality of this Upper Intake Manifold Kit. Your purchase is covered by a **1-year warranty**, ensuring your satisfaction.

If you encounter any issues with your purchase or have questions regarding the product, please contact the seller directly. We are committed to providing 100% satisfaction and will assist you with any concerns.

For further assistance or technical inquiries, please refer to the contact information provided with your purchase or on the product listing page.