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› EVIL ENERGY External Inline Fuel Pump KT04002-HW User Manual

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EVIL ENERGY External Inline Fuel Pump KT04002-HW User Manual

Brand: EVIL ENERGY | Model: KT04002-HW

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your EVIL ENERGY External Inline Fuel Pump, model KT04002-HW. Please read this manual thoroughly before installation and use to ensure proper function and safety.

PRODUCT OVERVIEW

The EVIL ENERGY External Inline Fuel Pump is a high-flow 12V electric fuel pump designed for EFI systems. It offers reliable fuel delivery with a universal fit for various car applications.

Key Features:

- **Application:** Designed for 12V DC EFI systems only.
- **Flow Rate:** Up to 300 LPH (at 43 PSI and 13.5V).
- **Operating Pressure:** 75 PSI.
- **Temperature Range:** -68°F to 194°F.
- **Compatibility:** Compatible with gasoline, pump gas, race gas, and diesel.
- **Material:** Durable Alloy Steel construction.

Product Parameter



Gravity-Feed



High Performance



Wide Application



Working Voltage
12V



Working Pressure
75 PSI



Working Temperature Range
-68 °F - 194 °F



Test Flow
200 LPH (75 PSI & 12V)
255 LPH (43 PSI & 12V)
300 LPH (43 PSI & 13.5V)

Image: Product Parameter overview showing working voltage, pressure, temperature range, and test flow rates.

PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 × Fuel Pump
- 2 × Gaskets
- 1 × Washer
- 2 × Nuts
- 2 × Insulated Terminals
- 1 × Inlet 10AN Adapter
- 1 × Outlet 6AN Adapter
- 2 × Rubber Connection Covers
- 1 × User Manual



Image: Visual representation of the fuel pump and all included accessories in the package.

SAFETY INFORMATION

Always prioritize safety when working with fuel systems. Fuel is highly flammable and can cause serious injury or death if not handled properly. It is recommended that installation be performed by a qualified professional.

- Ensure the vehicle's battery is disconnected before starting any work.
- Work in a well-ventilated area, away from open flames or sparks.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Have a fire extinguisher readily available.
- Verify all connections are secure and leak-free before operating the vehicle.

INSTALLATION

Proper installation is crucial for the performance and longevity of your fuel pump. Follow these steps carefully.

1. Mounting Position

It is recommended to install the fuel pump below the fuel tank. This ensures a gravity-fed fuel flow from the tank to the pump, which is optimal for pump performance and prevents cavitation.

Installation Position

Use a 100-micron pre-filter before the pump for optimal protection. If not, the pump may fail prematurely.

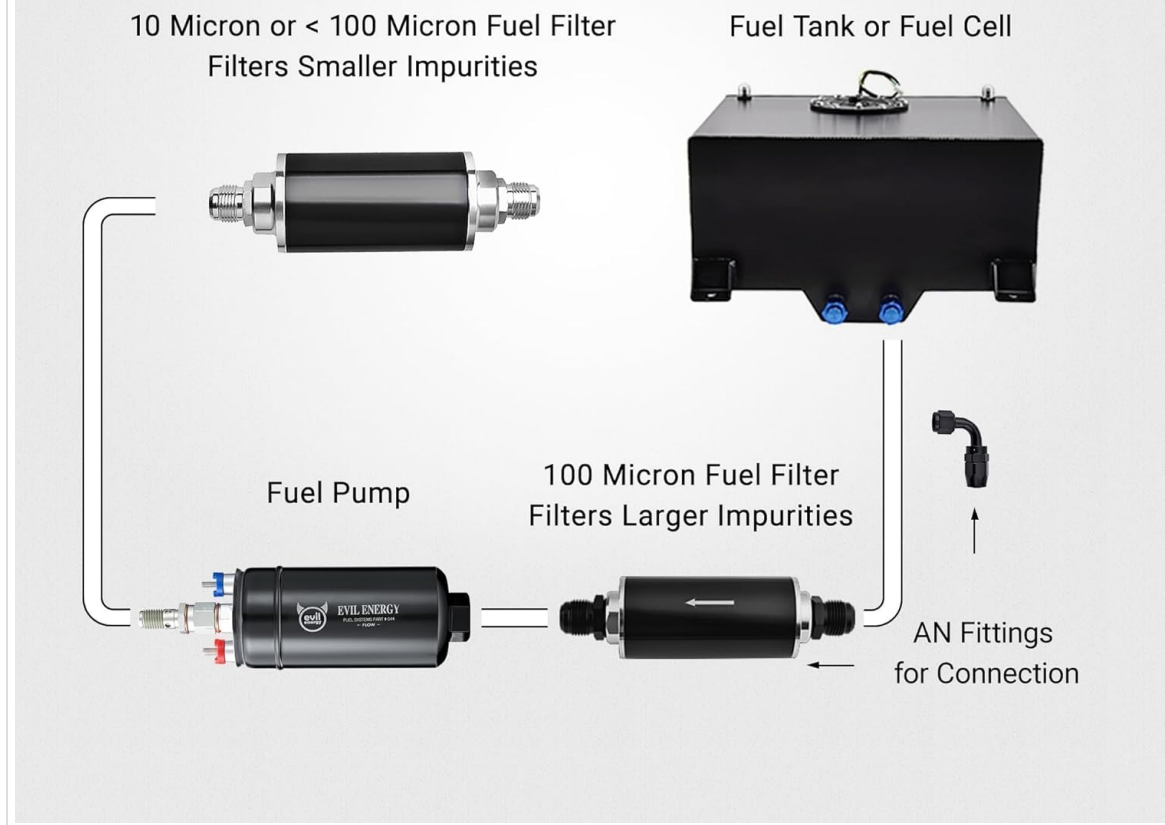


Image: Diagram illustrating the recommended installation position of the fuel pump relative to the fuel tank and the use of pre-filters.

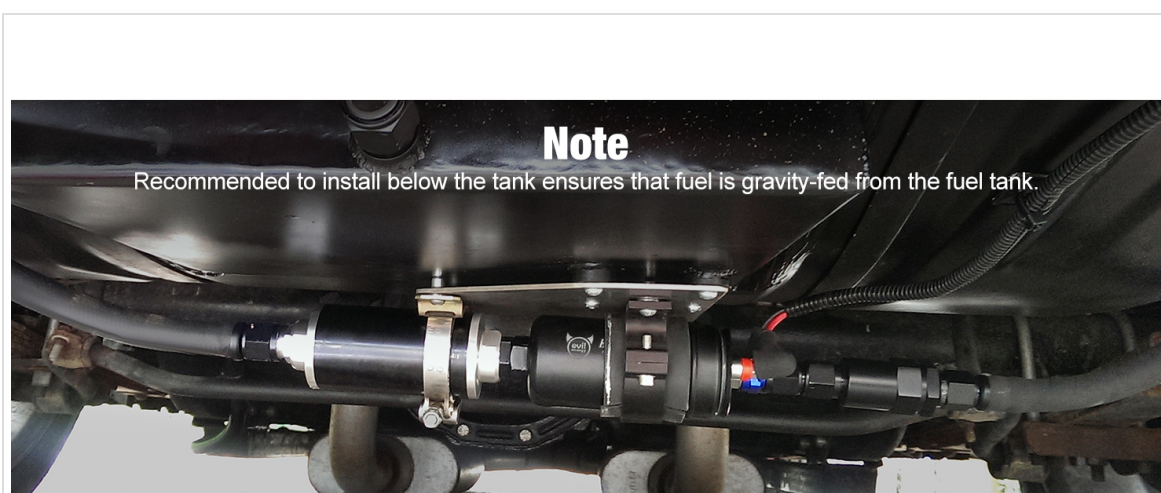


Image: An installed fuel pump mounted underneath a vehicle, demonstrating the recommended low-level placement.

2. Fuel Filtration

To protect the fuel pump and ensure its longevity, a 100-micron pre-filter **MUST** be installed before the pump. A 30-micron fuel filter should be installed after the pump to protect the engine's fuel injectors.

Product Size

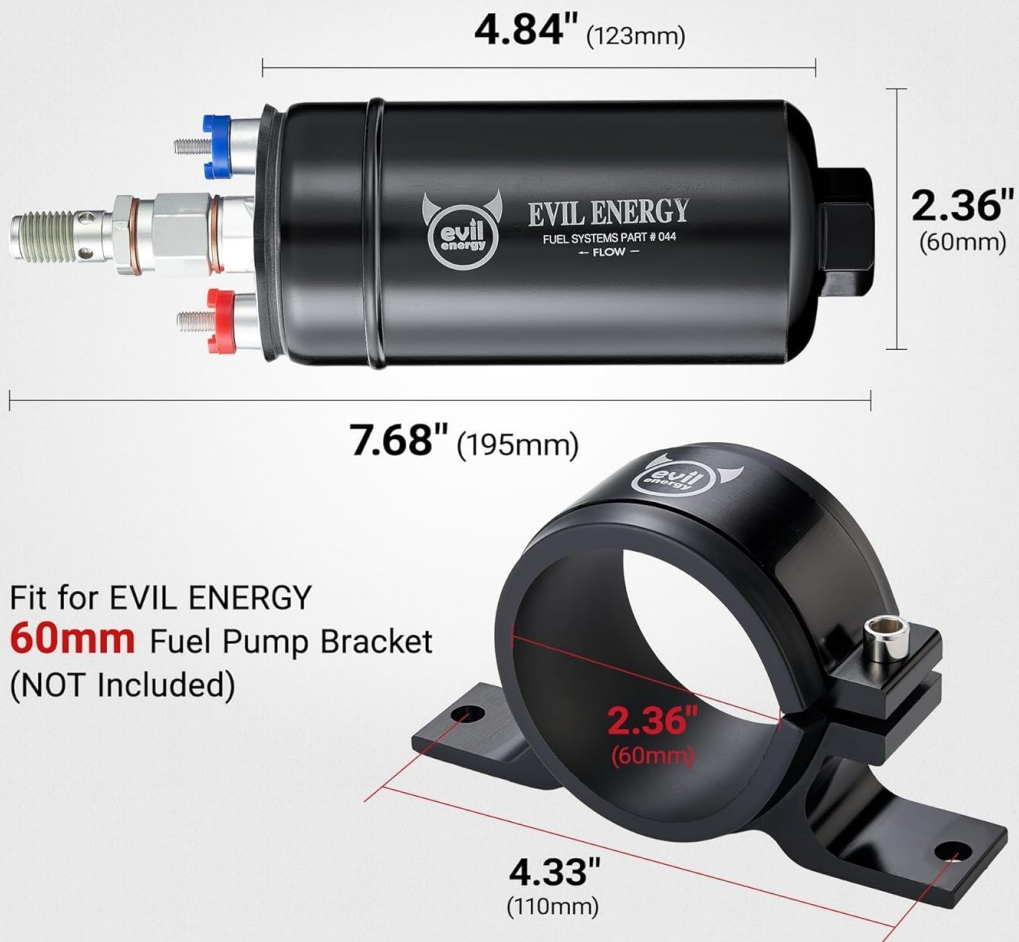


Image: Detailed diagram showing the fuel flow path, emphasizing the placement of a 100-micron pre-filter before the pump and a 30-micron filter after the pump.

Installation Step

A pre-filter rated at 100 microns is recommended.

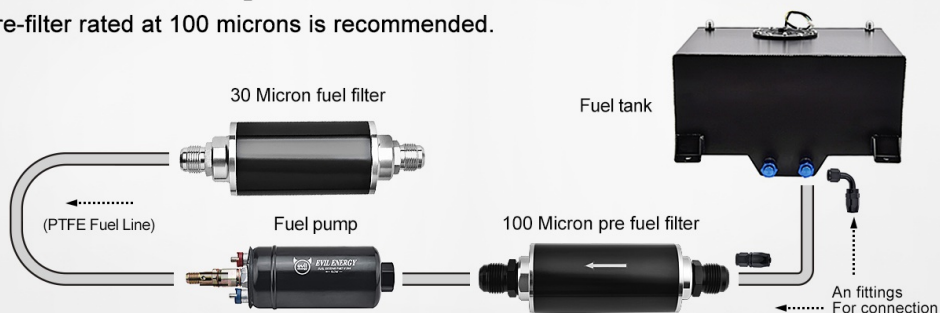


Image: An illustration of the fuel pump installation process, highlighting the connection points and the role of the pre-filter.

3. Wiring Connections

Ensure correct polarity when wiring the pump. The blue terminal is for negative (-) and the red terminal is for positive (+). Use the provided insulated terminals and nuts for secure connections.

Installation Tips

Ensure the polarity is correct while wiring the pump.

Blue for Negative



Red for Positive



Outlet: M12x1.5



Inlet: M18x1.5

Note The pump comes with a 6AN male outlet adapter and a 10AN male inlet adapter.

Image: Close-up view of the fuel pump's electrical terminals, indicating blue for negative and red for positive connections.

4. Adapter Connections

The pump comes with a 10AN male inlet adapter (M18x1.5) and a 6AN male outlet adapter (M12x1.5). Ensure these are properly threaded and sealed to prevent leaks.

Wide Application

Suitable for EFI systems only.



Image: The fuel pump showing the inlet and outlet ports with their respective AN adapter sizes.

Note: The pump is designed for universal fit in 12V DC EFI systems. Always verify compatibility with your specific vehicle setup.

OPERATION

Once properly installed, the fuel pump will activate with the vehicle's ignition system to deliver fuel to the engine. The pump operates at a nominal pressure of 75 PSI and is designed for continuous duty within its specified operating temperature range.

- Ensure the fuel tank contains sufficient fuel before operating the pump to prevent dry running, which can damage the pump.
- Listen for a consistent hum from the pump when the ignition is turned on (before starting the engine), indicating it is priming the fuel system.
- Regularly check for any unusual noises or vibrations during operation, which could indicate a problem.

MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your fuel pump.

- **Filter Replacement:** Inspect and replace the 100-micron pre-filter and 30-micron post-filter according to your vehicle's maintenance schedule or if signs of clogging (reduced fuel flow, pump strain) appear.
- **Connection Checks:** Periodically inspect all fuel lines, electrical connections, and mounting hardware for tightness, corrosion, or damage. Address any issues promptly.
- **Fuel Quality:** Use clean, appropriate fuel (gasoline, pump gas, race gas, diesel) as specified. Poor fuel quality can lead to premature pump failure.

TROUBLESHOOTING

If you experience issues with your fuel pump, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Pump does not run	No power, blown fuse, faulty wiring, seized pump.	Check electrical connections, inspect fuses, verify power supply, test pump directly if safe to do so.
Low fuel pressure	Clogged fuel filter, fuel line restriction, faulty pressure regulator, low fuel level, worn pump.	Replace fuel filters, inspect fuel lines, check fuel level, test fuel pressure regulator, consider pump replacement if worn.
Excessive noise from pump	Air in fuel system (cavitation), clogged pre-filter, loose mounting, internal pump issue.	Ensure pump is gravity-fed, check for air leaks in suction line, replace pre-filter, secure mounting, inspect pump for damage.
Fuel leaks	Loose fittings, damaged O-rings/gaskets, cracked housing.	Tighten all fittings, replace damaged O-rings/gaskets, inspect pump housing for integrity.

If problems persist after attempting these solutions, consult a qualified automotive technician.

SPECIFICATIONS

Feature	Detail
Brand	EVIL ENERGY
Model Number	KT04002-HW
Fit Type	Universal Fit (12V DC EFI systems)
Material	Alloy Steel

Feature	Detail
Item Weight	1.17 Kilograms
Operating Pressure	75 PSI
Test Flow (12V)	200 LPH (at 75 PSI), 255 LPH (at 43 PSI)
Test Flow (13.5V)	300 LPH (at 43 PSI)
Operating Temperature Range	-68°F to 194°F
Compatible Fuel	Gasoline, pump gas, race gas, diesel
Inlet Connection Type	Hose Barb (10AN adapter included)
Outlet Connection Type	Barb (6AN adapter included)
Operation Mode	Electric
Certifications	CE, UL

Applicable Medium

Includes gasoline, pump gas, race gas, and diesel.



Diesel



Gasoline

Image: Product size diagram showing the overall length and diameter of the fuel pump, along with dimensions for an optional mounting bracket (not included).

OFFICIAL PRODUCT VIDEO



Video: An official overview of the EVIL ENERGY 300LPH External Fuel Pump Kit, demonstrating its features and components.

WARRANTY INFORMATION

For specific warranty details regarding your EVIL ENERGY External Inline Fuel Pump, please refer to the warranty card included with your product or contact EVIL ENERGY customer support directly. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need to report an issue, please contact EVIL ENERGY customer support. Contact information can typically be found on the product packaging or the official EVIL ENERGY website.