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Delphi FS0108

Delphi FS0108 Fuel Pump Strainer Instruction Manual

INTRODUCTION

The Delphi FS0108 Fuel Pump Strainer is a critical component in your vehicle's fuel system, designed to protect the fuel pump and engine from contaminants. This strainer acts as the first line of defense against particles that can enter the fuel tank, ensuring a clean fuel supply for efficient engine operation. It is often referred to as a 'fuel sock' due to its appearance and is located inside the gas tank, just below the fuel pump.

In addition to filtering contaminants, the strainer also provides a wicking action that draws fuel into the pump, similar to how liquids are absorbed by a paper towel. While not a regular maintenance item, it is strongly recommended to replace the fuel pump strainer whenever a new fuel pump is installed to maintain system integrity and performance.

PRODUCT OVERVIEW



Image 1: Top view of the Delphi FS0108 Fuel Pump Strainer, showing its overall shape and the inlet connection.



Image 2: Angled view of the fuel pump strainer, highlighting the mesh material and connection point.



Image 3: Close-up view of the strainer's inlet, showing the fine mesh filter material.



Image 4: Full view of the Delphi FS0108 Fuel Pump Strainer, illustrating its elongated design.



Image 5: Bottom view of the fuel pump strainer, showing the mesh surface.

IMPORTANT VIDEOS

How To Clean Your Fuel Tank

Your browser does not support the video tag.

This video from PHINIA Delphi USA LLC provides a detailed guide on how to safely and effectively clean a fuel tank. Proper fuel tank cleaning is crucial to prevent contamination of new fuel system components, including the fuel pump strainer, and ensures the longevity of your fuel pump.

Fuel Pump Strainer Video

Your browser does not support the video tag.

This video from Merchant Video explains the function and importance of the fuel pump strainer. It highlights how the strainer protects the fuel pump from debris and ensures proper fuel flow, emphasizing its role as the first line of defense against fuel system contamination.

INSTALLATION AND SETUP

1. **Safety First:** Before beginning any work on the fuel system, ensure the vehicle is turned off, the battery is disconnected, and appropriate safety gear (eye protection, gloves) is worn. Work in a well-ventilated area and have a fire extinguisher nearby.
2. **Access the Fuel Pump:** The fuel pump strainer is located inside the fuel tank, attached to the fuel pump module. Access to the fuel pump typically requires removing the fuel tank or accessing it through an access panel under the rear seat or in the trunk. Refer to your vehicle's service manual for specific instructions.
3. **Drain Fuel (if necessary):** If the fuel tank needs to be removed or significantly lowered, it may be necessary to drain the fuel. Follow proper procedures for fuel handling and disposal.
4. **Remove Old Strainer:** Once the fuel pump module is accessible, carefully detach the old strainer from the fuel pump inlet. It is usually a press-fit or clip-on connection.
5. **Inspect and Clean:** Inspect the fuel tank for any debris or contaminants. If significant contamination is present, consider cleaning the fuel tank thoroughly (refer to the "How To Clean Your Fuel Tank" video).
6. **Install New Strainer:** Securely attach the new Delphi FS0108 Fuel Pump Strainer to the inlet of the fuel pump. Ensure it is properly seated and sealed to prevent unfiltered fuel from entering the pump.
7. **Reassemble:** Reinstall the fuel pump module and fuel tank (if removed) according to your vehicle's service manual. Reconnect all fuel lines, electrical connectors, and the battery.
8. **Test System:** After reassembly, turn the ignition to the ON position (without starting the engine) for a few seconds to allow the fuel pump to prime the system. Check for any fuel leaks before starting the engine.

OPERATING PRINCIPLES

The Delphi FS0108 Fuel Pump Strainer operates on a simple yet crucial principle: filtration. As the fuel pump draws fuel from the tank, the strainer's fine mesh material captures larger particles and debris, preventing them from entering the fuel pump and subsequently the rest of the fuel system. This protection is vital for the longevity and efficient operation of the fuel pump, fuel filter, and fuel injectors.

The strainer's design also facilitates a 'wicking' action, which helps draw fuel into the pump even when fuel levels are low, ensuring a consistent supply to the engine. This prevents the fuel pump from running dry, which can lead to premature wear and failure.

MAINTENANCE

The Delphi FS0108 Fuel Pump Strainer is generally considered a non-serviceable component and is not designed for routine cleaning or maintenance. Its primary function is to capture contaminants, and over time, it will accumulate debris. Attempting to clean a clogged strainer may not fully restore its filtration efficiency and could potentially damage the delicate mesh, allowing contaminants to pass through.

Recommendation: It is highly recommended to replace the fuel pump strainer every time the fuel pump is replaced. This ensures that the new fuel pump operates with a clean, unobstructed inlet, maximizing its lifespan and maintaining optimal fuel system performance. Replacing the strainer with the fuel pump is a cost-effective measure to prevent future fuel delivery issues caused by a clogged strainer.

TROUBLESHOOTING

A clogged or damaged fuel pump strainer can lead to various fuel delivery problems. If you experience any of the following symptoms, consider inspecting or replacing the fuel pump strainer:

- **Engine Stalling or Hesitation:** A restricted fuel flow due to a clogged strainer can cause the engine to starve for fuel, leading to stalling, hesitation, or misfires, especially under acceleration.
- **Reduced Engine Performance:** Insufficient fuel delivery can result in a noticeable drop in engine power, poor acceleration, and overall sluggish performance.
- **Difficulty Starting:** If the fuel pump struggles to draw fuel through a clogged strainer, it can lead to extended cranking times or a no-start condition.
- **Whining Noise from Fuel Tank:** A fuel pump working harder to pull fuel through a restricted strainer may produce an audible whining or buzzing sound from the fuel tank area.
- **Check Engine Light:** In some cases, severe fuel pressure issues caused by a clogged strainer can trigger the Check Engine Light and store diagnostic trouble codes related to fuel system performance.

If these symptoms occur, it is advisable to consult a qualified automotive technician for diagnosis and repair. Always ensure the fuel pump strainer is replaced with a new, compatible unit when addressing fuel pump or fuel delivery issues.

SPECIFICATIONS

Brand	Delphi
Model Number	FS0108
Part Type	Fuel Pump Strainer
Material	Polyester
Item Dimensions (L x W x H)	1.6 x 1.6 x 8 inches
Item Weight	0.704 ounces
Fit Type	Vehicle Specific Fit
Vehicle Service Type	Car
OEM Part Numbers	AFS0197S, AFS0309S, AFS0312S, AFS0887P, RE0197S, RE0309S, RE0312S, RE0887P, E2201S, E2202S, E2205S, E2471, FS197, FS198, S13004, S15005, S15021, TS134, A30148, A30179, E16006, S13070, S14000

WARRANTY INFORMATION

Delphi products are manufactured to meet original equipment (OE) standards, ensuring quality and fitment. Specific warranty details for the Delphi FS0108 Fuel Pump Strainer are typically provided at the point of purchase or can be found on the official Delphi website. Please retain your proof of purchase for any warranty claims.

SUPPORT

For technical assistance, installation guidance, or product inquiries regarding the Delphi FS0108 Fuel Pump Strainer, please visit the official Delphi website or contact their customer support. You can also find more information and resources by visiting the [Delphi Store on Amazon](#).