

Fleetguard UF101

Fleetguard UF101 Urea Filter Instruction Manual

Model: UF101

1. INTRODUCTION

This manual provides essential information for the proper handling, installation, and maintenance of the Fleetguard UF101 Urea Filter. The UF101 is designed to ensure the purity of Diesel Exhaust Fluid (DEF) within Selective Catalytic Reduction (SCR) systems, which is crucial for reducing nitrogen oxide (NOx) emissions in diesel engines.

Proper filtration of DEF prevents contamination from reaching sensitive components of the SCR system, such as the DEF pump and injector, thereby maintaining optimal system performance and compliance with emission standards.

2. SAFETY INFORMATION

Always observe the following safety precautions when handling the Fleetguard UF101 Urea Filter or working on a vehicle's DEF system:

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, to protect against DEF contact. DEF is corrosive to some materials and can cause skin irritation.
- Ensure the vehicle's engine is off and cooled down before beginning any work on the DEF system.
- Relieve any pressure in the DEF system according to the vehicle manufacturer's service manual before removing components.
- Avoid spilling DEF. If spills occur, clean immediately with water. DEF can crystallize and damage surfaces.
- Dispose of used filters and DEF in accordance with local environmental regulations.
- Refer to the vehicle manufacturer's service manual for specific instructions and torque specifications related to DEF system components.

3. INSTALLATION

The Fleetguard UF101 Urea Filter is a critical component of the DEF system. Installation should be performed by a qualified technician or an individual with experience in automotive maintenance, following the vehicle manufacturer's specific procedures.



Image 1: The Fleetguard UF101 Urea Filter. This image displays the cylindrical filter with its distinctive pleated media, which is light orange, and black end caps. The pleats are visible, indicating the filtration surface.

General Installation Steps (Consult Vehicle Manual for Specifics):

1. **Locate the Filter:** Identify the location of the existing urea filter within the DEF system. This is typically near the DEF tank or pump module.
2. **Prepare for Removal:** Place a suitable container beneath the filter housing to catch any residual DEF.
3. **Remove Old Filter:** Carefully disconnect any lines or sensors attached to the filter housing. Use appropriate tools to unfasten and remove the old filter. Be prepared for some DEF to drain.
4. **Clean Housing:** Inspect and clean the filter housing and sealing surfaces to ensure no debris or old gasket material remains.
5. **Install New Filter:** Insert the new Fleetguard UF101 filter into the housing, ensuring it is seated correctly. Apply a thin layer of clean DEF to any new O-rings or seals if specified by the vehicle manufacturer.
6. **Secure and Reconnect:** Fasten the filter housing securely, tightening to the vehicle manufacturer's specified torque. Reconnect all lines and sensors.
7. **Check for Leaks:** After installation, start the vehicle and check for any DEF leaks around the new filter.
8. **Reset System (if required):** Some vehicles may require a system reset or diagnostic tool to clear fault codes or acknowledge the new filter.

4. FUNCTION AND OPERATION

The Fleetguard UF101 Urea Filter operates by filtering impurities and particulate matter from the Diesel Exhaust Fluid (DEF) before it is injected into the exhaust stream. DEF, a solution of urea and deionized water, must be clean to prevent clogging of the DEF injector and damage to the SCR catalyst.

The filter's pleated media provides a large surface area for efficient particle capture, ensuring that only clean DEF reaches the critical components of the SCR system. This maintains the effectiveness of the emission reduction process and prolongs the life of the DEF pump and injector.

5. MAINTENANCE

Regular maintenance of the DEF system, including timely replacement of the urea filter, is essential for the longevity and efficiency of your vehicle's emission control system.

- **Replacement Interval:** Refer to your vehicle manufacturer's service schedule for the recommended replacement interval for the urea filter. This interval can vary based on vehicle type, operating conditions, and DEF quality.
- **Signs of Clogging:** A clogged urea filter can lead to reduced DEF flow, triggering diagnostic trouble codes (DTCs) related to the SCR system, reduced engine performance, or increased emissions.
- **Disposal:** Dispose of the used filter and any drained DEF according to local environmental regulations for automotive waste.

6. TROUBLESHOOTING

While the Fleetguard UF101 is a passive component, issues in the DEF system can sometimes be attributed to a clogged or improperly installed filter. Consider the following if you experience DEF system issues:

- **Check Engine Light / DEF System Warning:** If a warning light related to the DEF system illuminates, a restricted urea filter could be a contributing factor.
- **Reduced Engine Power (Derate):** Many modern diesel vehicles will enter a "derate" mode if the SCR system is not functioning correctly, often due to DEF quality or flow issues, which a clogged filter can cause.
- **No DEF Consumption:** If the vehicle is not consuming DEF as expected, the filter might be blocked, preventing DEF from reaching the injector.
- **Visual Inspection:** After safely accessing the filter area, check for any visible leaks around the filter housing or signs of improper installation.

For persistent issues, consult a certified automotive technician or refer to your vehicle's diagnostic manual.

7. SPECIFICATIONS

Key specifications for the Fleetguard UF101 Urea Filter:

Manufacturer	Fleetguard
Brand	Fleetguard
Model Number	UF101
Item Weight	3.2 ounces
Package Dimensions	6 x 3 x 3 inches
ASIN	B0844NKNY4

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For technical support or further information, please visit the official Fleetguard website or consult your vehicle's service manual.

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

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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