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› Spectra Premium FN1006 Fuel Tank Filler Neck User Manual

Spectra Premium FN1006

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Model: FN1006

INTRODUCTION

This manual provides essential information for the proper installation, maintenance, and troubleshooting of your Spectra Premium FN1006 Fuel Tank Filler Neck. This component is engineered to meet or exceed the performance of original equipment, ensuring reliable fuel delivery to your vehicle's tank.

SAFETY INFORMATION

Always observe the following safety precautions when working with vehicle fuel systems:

- Ensure the vehicle is turned off and the battery is disconnected before beginning any work.
- Work in a well-ventilated area to avoid inhaling fuel vapors.
- Keep open flames, sparks, and other ignition sources away from the work area.
- Wear appropriate personal protective equipment, including safety glasses and chemical-resistant gloves.
- Have a fire extinguisher readily available.
- Dispose of fuel and related materials according to local regulations.
- If unsure about any step, consult a qualified automotive technician.

PRODUCT OVERVIEW

The Spectra Premium FN1006 Fuel Tank Filler Neck is a critical component designed to facilitate the safe and efficient transfer of fuel from the pump nozzle to the vehicle's fuel tank. Key features include:

- Designed to Original Equipment (OE) fit, form, and function requirements.
- Fit tested on vehicle applications to ensure proper fit and ease of installation.
- Dual coated for enhanced corrosion protection, extending product lifespan.
- Leak tested after production to ensure freedom from fuel and evaporative leaks.
- Tested with Original Equipment (OE) fuel caps to prevent EVAP system issues and check engine light activation.



Image 1: The Spectra Premium FN1006 Fuel Tank Filler Neck, showing its main body and connection points. This is the primary component for fuel transfer.



Image 2: A close-up view of the fuel tank filler neck's opening, where the fuel nozzle is inserted. This shows the internal design for secure fuel flow.



Image 3: An example of a typical installation kit that may accompany a fuel tank filler neck, including hoses, clamps, and other necessary hardware for a complete replacement.

SETUP AND INSTALLATION

Installation of the Spectra Premium FN1006 Fuel Tank Filler Neck typically involves replacing an existing component. While specific steps may vary by vehicle model, the general procedure is as follows:

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and disconnect the negative terminal of the battery. Ensure the fuel tank is as empty as possible.
2. **Access:** Locate the existing fuel filler neck. This may require removing wheel well liners, trim panels, or other components depending on the vehicle's design.
3. **Drain Fuel (if necessary):** If there is fuel in the filler neck or connecting hoses, carefully drain it into an approved container.
4. **Disconnect Hoses and Wires:** Loosen clamps and disconnect the main fuel filler hose and any vent hoses from the fuel tank and the filler neck. Disconnect any electrical connectors if present.
5. **Remove Old Filler Neck:** Unbolt or unclip the old filler neck from its mounting points on the vehicle body. Carefully remove it, being mindful of any remaining fuel.
6. **Install New Filler Neck:** Position the new Spectra Premium FN1006 filler neck in place. Secure it with the appropriate bolts or clips.
7. **Connect Hoses and Wires:** Reconnect the main fuel filler hose and vent hoses, ensuring all clamps are tightened securely to prevent leaks. Reconnect any electrical connectors.
8. **Inspect:** Double-check all connections for tightness and proper routing. Ensure there are no kinks in hoses.
9. **Test:** Reconnect the battery. Add a small amount of fuel to the tank and visually inspect for any leaks around the new filler neck and hose connections. If no leaks are observed, the installation is complete.

Note: Assembly is generally not required for the FN1006 unit itself, as it comes as a complete assembly. However, installation into the vehicle requires connecting it to existing vehicle components.

OPERATING PRINCIPLES

The Spectra Premium FN1006 Fuel Tank Filler Neck functions as a passive conduit for fuel. Its primary role is to provide a secure and sealed pathway for fuel from the dispensing nozzle to the vehicle's fuel tank. It also incorporates design features to prevent fuel spillage and manage fuel vapor emissions, working in conjunction with the vehicle's evaporative emissions (EVAP) system and fuel cap.

Proper operation relies on a tight seal with the fuel cap and secure connections to the fuel tank and vent lines. Any compromise to these seals can lead to fuel leaks, vapor emissions, and potentially trigger a "Check Engine" light due to EVAP system faults.

Maintenance

The Spectra Premium FN1006 Fuel Tank Filler Neck is designed for durability and minimal maintenance. However, periodic inspection can help ensure its continued performance:

- **Visual Inspection:** Periodically check the filler neck for signs of corrosion, cracks, or physical damage, especially around the connection points and the fuel cap seating area.
- **Hose Connections:** Ensure that the fuel filler hose and vent hoses connected to the filler neck are secure and free from cracks or deterioration. Tighten clamps if necessary.
- **Fuel Cap:** Verify that the fuel cap seals properly. A faulty or ill-fitting fuel cap can lead to EVAP system issues, even if the filler neck itself is in good condition.
- **Cleaning:** Keep the area around the filler neck opening clean to prevent dirt and debris from entering the fuel tank.

Troubleshooting

If you experience issues related to your fuel filler neck, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Fuel Leakage	Loose hose clamps, damaged hoses, cracked filler neck, faulty O-rings/gaskets.	Inspect all connections and hoses. Tighten clamps. Replace damaged hoses or the filler neck if cracked. Ensure O-rings/gaskets are properly seated.
"Check Engine" Light (EVAP System)	Loose or faulty fuel cap, leak in filler neck or hoses, EVAP system component failure.	Ensure fuel cap is tightened correctly. Inspect filler neck and hoses for leaks. If problem persists, consult a mechanic for EVAP system diagnosis.
Difficulty Fueling	Kinked vent hose, internal obstruction in filler neck, faulty fuel tank pressure sensor.	Check vent hoses for kinks or blockages. Inspect filler neck for debris. If issues persist, professional diagnosis may be required.

Specifications

Attribute	Detail
Brand	Spectra Premium
Model Number	FN1006
Product Grade	Performance
OEM Part Number	52121252AA
UPC	671607116458
Manufacturer	Spectra Premium
Product Dimensions (LxWxH)	88.6 x 50.8 x 15.6 Centimeters
Item Weight	4 kg 60 g (8.95 Pounds)
Assembly Required	No (for the unit itself)

Attribute	Detail
Fit Type	Vehicle Specific
Fuel Type Compatibility	Petrol
ASIN	B00HLVXBFC
Date First Available	4 May 2015

WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts for your Spectra Premium FN1006 Fuel Tank Filler Neck, please refer to the official Spectra Premium website or contact their customer service directly. Keep your purchase receipt and product model number (FN1006) handy when contacting support.

Note: Specific warranty terms may vary by region and retailer.

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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