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> Spectra Premium FG73A Fuel Sending Unit for Ford Pickup - Instruction Manual

Spectra Premium FG73A

Spectra Premium FG73A Fuel Sending Unit Instruction Manual

Model: FG73A | Brand: Spectra Premium

INTRODUCTION

The Spectra Premium FG73A Fuel Sending Unit is engineered to meet or exceed the performance standards of original equipment fuel sending units. This unit is designed for specific Ford Pickup applications, ensuring a precise fit and reliable fuel level measurement. It features OE-matched electrical connections and undergoes 100% testing to guarantee accurate fuel level readings.

Key features include:

- Engineered to meet or exceed original equipment performance.
- Developed and tested for a perfect fit in compatible vehicles.
- Equipped with OE-matched electrical connections for seamless integration.
- Features an Ohms Range of 75-10 Ohms.
- Ensures accurate fuel level readings through rigorous testing.

INSTALLATION GUIDE

Installation of a fuel sending unit requires mechanical knowledge and adherence to safety protocols. It is recommended that this procedure be performed by a qualified automotive technician.

Safety Precautions

- **Disconnect the vehicle's battery** before beginning any work to prevent electrical shorts.
- Ensure the work area is well-ventilated and free from open flames or sparks, as fuel vapors are highly flammable.
- Wear appropriate personal protective equipment, including safety glasses and fuel-resistant gloves.
- Have a fire extinguisher readily available.
- Work on a level surface and use jack stands to secure the vehicle if lifting is required.

Required Tools and Materials

- Socket/Wrench set
- Screwdrivers
- Fuel line disconnect tools (if applicable)
- Fuel-resistant sealant (if recommended by vehicle manufacturer)
- New fuel tank gasket (included with FG73A)
- Drain pan for fuel

Installation Steps

1. **Prepare the Vehicle:** Ensure the fuel tank is as empty as possible. Disconnect the negative terminal of the vehicle's battery.
2. **Access the Fuel Tank:** Depending on the vehicle model, this may involve lowering the fuel tank or accessing it from under the rear seats/bed. Refer to your vehicle's service manual for specific instructions.
3. **Relieve Fuel System Pressure:** Consult your vehicle's service manual for the correct procedure to relieve fuel system pressure.
4. **Disconnect Fuel Lines and Electrical Connectors:** Carefully disconnect all fuel lines and electrical wiring from the existing fuel sending unit. Be prepared for residual fuel leakage.
5. **Remove Old Sending Unit:** Loosen and remove the locking ring that secures the sending unit to the fuel tank. Carefully extract the old sending unit, ensuring the float arm does not bend or snag.
6. **Inspect Tank Opening:** Clean the fuel tank opening thoroughly, removing any debris or old gasket material.
7. **Install New Sending Unit:**

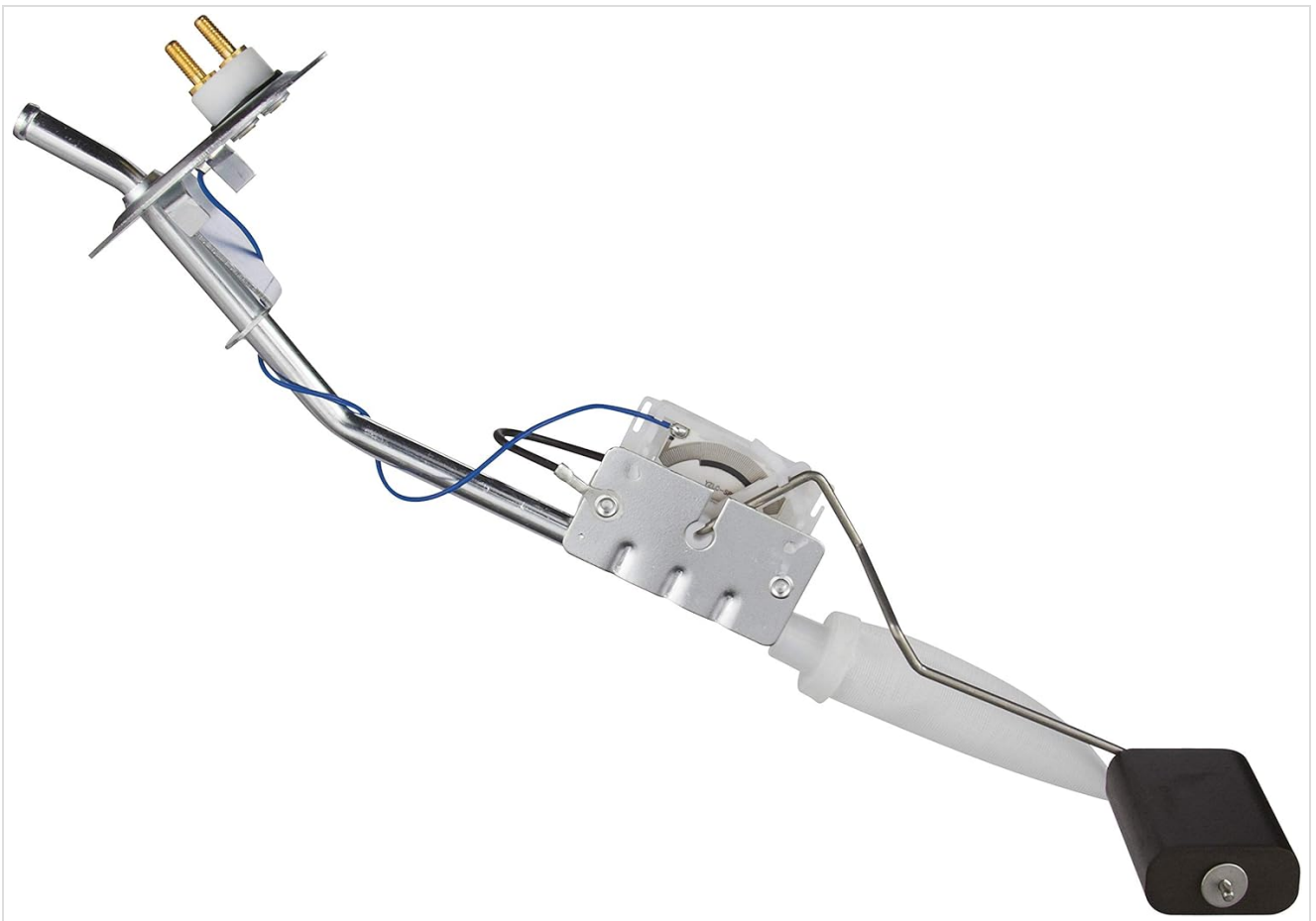


Image: The complete Spectra Premium FG73A Fuel Sending Unit, showing the main body, float arm, and electrical connections.

Place the new gasket (included) onto the fuel tank opening. Carefully insert the Spectra Premium FG73A sending unit into the tank, ensuring the float arm moves freely and does not interfere with internal tank components. Align the unit correctly with the tank opening.



Image: The new gasket and locking ring, essential components for sealing the fuel sending unit to the tank. Secure the unit with the new locking ring, ensuring it is tightened evenly to create a proper seal. Do not overtighten.

8. Reconnect:



Image: A close-up view of the top plate of the Spectra Premium FG73A, highlighting the fuel outlet tube and the two electrical posts for connection.

Reconnect all fuel lines and electrical connectors to the new sending unit. Ensure all connections are secure and free from leaks. The electrical connections are OE-matched for direct fitment.



Image: Top-down view of the Spectra Premium FG73A, showing the layout of the electrical connections and fuel line attachment point.

9. **Test for Leaks:** Reconnect the battery. Turn the ignition to the "ON" position (do not start the engine) to allow the fuel pump to prime the system. Check for any fuel leaks around the sending unit. If no leaks are present, start the engine and re-check.
10. **Verify Fuel Gauge Operation:** Observe the fuel gauge to ensure it registers the correct fuel level.

OPERATION

The Spectra Premium FG73A Fuel Sending Unit operates automatically to measure the fuel level within the vehicle's fuel

tank. It transmits this information as an electrical resistance signal to the vehicle's fuel gauge. As the fuel level changes, the float arm moves, altering the resistance and consequently the reading on the fuel gauge. This unit is designed to provide accurate and consistent fuel level data to the vehicle's instrument cluster.

MAINTENANCE

The Spectra Premium FG73A Fuel Sending Unit is a sealed component and generally requires no routine maintenance. However, to ensure its longevity and accurate operation, consider the following:

- **Fuel Quality:** Using clean, high-quality fuel helps prevent sediment buildup that could potentially interfere with the float arm's movement or clog the unit's filter (if applicable).
- **Fuel System Integrity:** Regularly inspect fuel lines and connections for leaks or damage. A compromised fuel system can affect the overall performance and safety.
- **Avoid Running on Empty:** Consistently running the fuel tank to near empty can expose the sending unit's components to air and contaminants, potentially reducing its lifespan.

TROUBLESHOOTING

If you experience issues with your fuel gauge after installing the FG73A unit, consider the following troubleshooting steps. Always ensure safety precautions are followed when working with fuel systems.

Common Issues and Solutions

- **Fuel Gauge Reads Incorrectly (e.g., always full, always empty, erratic):**
 - **Check Electrical Connections:** Ensure all electrical connectors to the sending unit and the vehicle's wiring harness are clean, secure, and free from corrosion. A loose or corroded connection can cause inaccurate readings.
 - **Verify Ground Connection:** A poor ground connection for the fuel sending unit or the fuel gauge itself can lead to incorrect readings.
 - **Inspect Float Arm:** If the unit was recently installed, the float arm might be bent or obstructed, preventing it from moving freely. This would require re-accessing the fuel tank.
 - **Gauge Compatibility:** Ensure the vehicle's fuel gauge is compatible with the **75-10 Ohms range** of the Spectra Premium FG73A. Incompatible gauges may display incorrect levels.
 - **Wiring Harness Integrity:** Inspect the wiring harness leading from the sending unit to the gauge for any cuts, shorts, or damage.
- **Fuel Leakage Around Sending Unit:**
 - **Check Gasket and Locking Ring:** Ensure the new gasket is properly seated and the locking ring is securely and evenly tightened. Overtightening or undertightening can cause leaks.
 - **Inspect Fuel Lines:** Verify that all fuel lines are correctly connected and their seals (O-rings, clamps) are intact and not damaged.
- **No Fuel Gauge Reading:**
 - **Check Fuses:** A blown fuse in the vehicle's electrical system could affect the fuel gauge.
 - **Electrical Continuity:** Use a multimeter to check for continuity in the wiring from the sending unit to the gauge.
 - **Sending Unit Failure:** Although tested, a rare manufacturing defect or damage during installation could lead to unit failure.

If these steps do not resolve the issue, it is advisable to consult a certified automotive technician for further diagnosis and repair.

TECHNICAL SPECIFICATIONS

Specification	Detail
Brand	Spectra Premium
Model Number	FG73A
Part Number	FG73A
UPC / GTIN	671607141863
Ohms Range	75-10 Ohms
Material	Metal, Plastic
Item Dimensions (L x W x H)	12.69 x 8.5 x 7 inches
Switch Type	Metal
Connector Type	Clamp
Terminal Type	Spade

WARRANTY INFORMATION

The Spectra Premium FG73A Fuel Sending Unit comes with a **1-Year Limited Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service. It does not cover damage resulting from improper installation, accident, misuse, abuse, or unauthorized modifications. For specific warranty claims and procedures, please refer to the official Spectra Premium warranty policy or contact customer support.

CUSTOMER SUPPORT

For technical assistance, installation questions, or warranty inquiries regarding your Spectra Premium FG73A Fuel Sending Unit, please contact Spectra Premium customer support. You can typically find contact information on the official Spectra Premium website or through your product retailer.

Online Resources: Visit the [Spectra Premium Store on Amazon](#) for additional product information and resources.

When contacting support, please have your product model number (FG73A) and proof of purchase readily available.