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› QFS In-Tank EFI Fuel Pump w/Fuel Pressure Regulator, Fuel Filter, Strainer Replacement for Husqvarna SM 630 SMR 450 510 SMS 630 TC 250 310 450 510 TE 250 310 450 510 630 TXC 250 310 450 510 0 Instruction Manual

HFP HFP-389-URF2

QFS In-Tank EFI Fuel Pump System

INSTRUCTION MANUAL

Model: HFP-389-URF2 | Brand: HFP

1. Introduction

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your new HFP In-Tank EFI Fuel Pump System. This system is designed as a direct replacement for specific Husqvarna models, ensuring reliable and long-lasting performance. Please read this manual thoroughly before proceeding with installation or use.



Figure 1: Overview of the HFP In-Tank EFI Fuel Pump System components.

2. Product Components

The HFP In-Tank EFI Fuel Pump System includes the following components:

- **In-Tank EFI Fuel Pump:** The core component responsible for delivering fuel.
- **Fuel Pressure Regulator:** Maintains optimal fuel pressure for efficient engine operation.
- **Fuel Filter:** Filters contaminants from the fuel, protecting the pump and engine.
- **Fuel Strainer(s):** Pre-filters fuel at the pump inlet to prevent larger particles from entering.
- **Installation Kit:** Includes necessary accessories for a comprehensive replacement.



Figure 2: Fuel Pump (Electrical Connector End)



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**DIRECT
DROP-IN**



**UNPRECEDENTED
RELIABILITY**



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PERFORMANCE**



Figure 3: Fuel Filter



Figure 4: Fuel Pressure Regulator

3. Setup and Installation

Installation of the HFP In-Tank EFI Fuel Pump System is designed to be a direct replacement for your vehicle's original equipment. While the kit is comprehensive, professional installation is highly recommended due to the complexity and safety considerations involved with fuel systems.

3.1 Safety Precautions

- Always disconnect the vehicle's battery before beginning work.
- Ensure adequate ventilation in your work area.

- Have a fire extinguisher readily available.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Relieve fuel system pressure before disconnecting any fuel lines.

3.2 Installation Steps (General Guidelines)

1. Safely drain or minimize fuel in the tank.
2. Access the fuel pump assembly, typically located within the fuel tank.
3. Carefully disconnect electrical connectors and fuel lines from the old assembly.
4. Remove the old fuel pump, regulator, filter, and strainers from the assembly.
5. Install the new HFP fuel pump, regulator, filter, and strainers into the assembly, ensuring all components are correctly seated and secured.
6. Reconnect fuel lines and electrical connectors.
7. Reinstall the fuel pump assembly into the tank.
8. Refill the fuel tank and check for leaks before starting the vehicle.
9. Turn the ignition to the 'ON' position several times without starting the engine to prime the fuel system.
10. Start the engine and inspect for proper operation and any signs of leaks.

Refer to your vehicle's specific service manual for detailed, model-specific installation instructions.

4. Operating Principles

Once correctly installed, the HFP In-Tank EFI Fuel Pump System operates automatically as part of your vehicle's fuel delivery system. The fuel pump draws fuel from the tank, and the fuel pressure regulator ensures that fuel is delivered to the engine at the precise pressure required for optimal combustion. The integrated fuel filter and strainers continuously protect the system from contaminants, ensuring consistent fuel flow and engine performance.

The design incorporates upgraded polymers, brushes, and commutators to ensure consistent flow, amperage draw, and quiet operation, contributing to the overall reliability and longevity of your vehicle's fuel system.

5. Maintenance

The HFP In-Tank EFI Fuel Pump System is engineered for long life and durability. While the fuel pump itself is generally maintenance-free, regular maintenance of your vehicle's fuel system components is crucial for optimal performance and longevity.

- **Fuel Filter Replacement:** Although a new fuel filter is included with this kit, it is recommended to follow your vehicle manufacturer's guidelines for regular fuel filter replacement intervals. A clogged fuel filter can strain the fuel pump and reduce fuel delivery.
- **Fuel Quality:** Always use high-quality fuel to minimize contaminants and protect the fuel system components.
- **Tank Cleanliness:** If the fuel tank is known to have significant debris or rust, consider cleaning the tank before installing the new fuel pump system to prevent premature clogging of the new strainers and filter.

6. Troubleshooting

If you experience issues after installing the HFP In-Tank EFI Fuel Pump System, consider the following

common troubleshooting steps:

Symptom	Possible Cause	Solution
Engine cranks but won't start	No fuel pressure; electrical connection issue; clogged filter/strainer.	Check electrical connections to the pump. Verify fuel pressure. Inspect fuel filter and strainers for clogs.
Engine misfires or lacks power	Insufficient fuel pressure; restricted fuel flow.	Check fuel pressure regulator operation. Inspect fuel lines for kinks or damage. Replace fuel filter if necessary.
Loud whining noise from fuel tank	Low fuel level; restricted fuel flow; pump cavitation.	Ensure adequate fuel in tank. Check for restricted fuel lines or clogged filter/strainer.
Fuel leaks	Improperly seated O-rings or seals; loose connections.	Carefully inspect all connections and seals. Ensure proper torque on retaining rings.

If issues persist after troubleshooting, it is recommended to consult a qualified mechanic or contact Quantum Fuel Systems customer support.

7. Specifications

Attribute	Detail
Brand	HFP (Quantum Fuel Systems)
Model Number	HFP-389-URF2
Fit Type	Vehicle Specific Fit
Vehicle Service Type	Motorcycle
Item Dimensions (L x W x H)	7 x 4 x 3 inches
Material	Plastic
Operation Mode	Mechanical
Mounting Type	Tank Mount
Gas Type	Gasoline
OEM Part Numbers	8000H0183, 8000B0376, 8000H1185, 709000100, 8000H0184, Husqvarna 8000H1184, 8000H2930, 8000H1186

8. Warranty and Support

Quantum Fuel Systems provides a **Lifetime Warranty** for this product. This warranty covers defects in materials and workmanship under normal use and service.

For warranty claims, technical assistance, or any product-related inquiries, please contact the dedicated in-house customer service team based in Ventura, California, USA. Quantum Fuel Systems has been American-owned and operated since 2009.

Se habla Español.

