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YHTAUTO YHTFP0143

YHTAUTO Electric Fuel Pump with Sending Unit

Instruction Manual for Ford Mustang 2005 V6 4.0L / V8 4.6L (Left Side)

1. Introduction

The YHTAUTO Electric Fuel Pump with Sending Unit is a high-quality replacement component designed to ensure reliable fuel delivery to your vehicle's engine. This manual provides essential information for the proper installation, operation, and maintenance of the fuel pump assembly, helping to maintain your vehicle's performance and fuel efficiency.

2. Product Overview & Features

This electric fuel pump module assembly is engineered to provide consistent and powerful fuel flow, supporting the engine's power output for smoother acceleration and improved responsiveness. It is manufactured with precision to meet factory specifications.

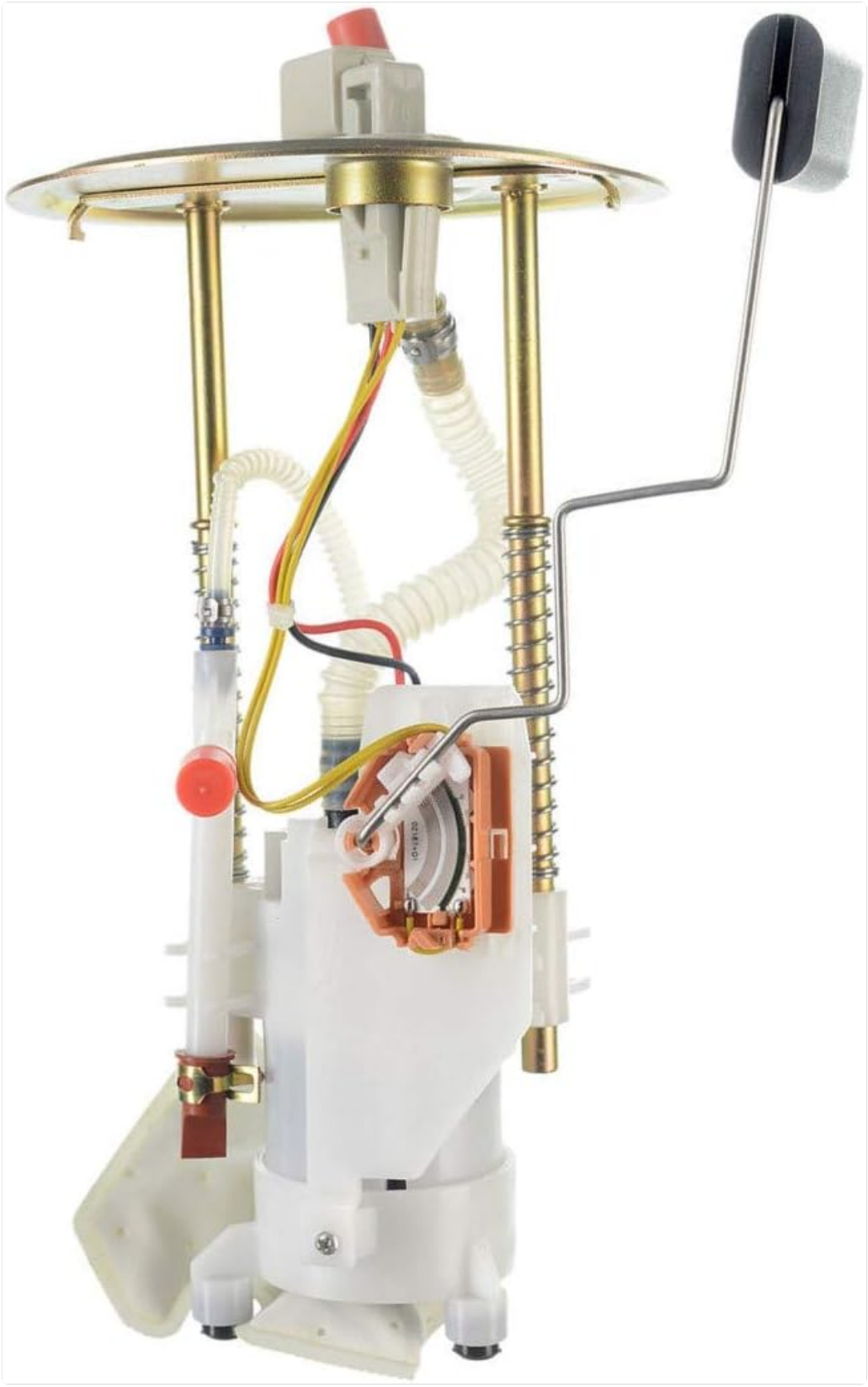

Figure 2.1: YHTAUTO Electric Fuel Pump with Sending Unit.

Key Features:

- **Fuel Delivery:** Designed to provide consistent and powerful fuel flow for optimal engine performance.
- **Factory Compatibility:** Precision-manufactured to interchange with OEM part numbers 4R3Z9H307AA, 5R3Z9H307AC, SP2062M, P76342M, SP2397M, E2457M.
- **POM Materials:** Constructed from durable and fatigue-resistant POM material, ensuring longevity and quiet operation.

- **Easy Installation:** Designed for straightforward installation and maintenance, with easy-to-plug and secure connectors.

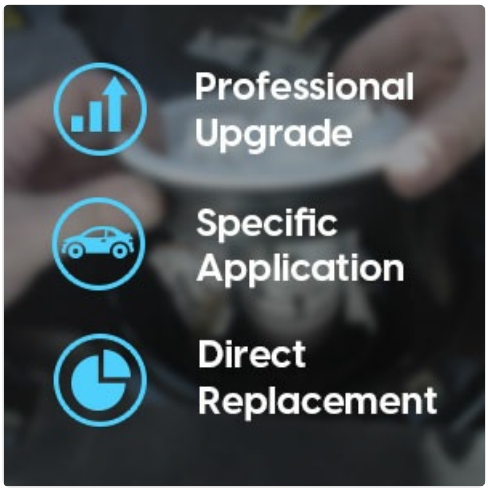

Figure 2.2: Product highlights: Professional Upgrade, Specific Application, Direct Replacement.

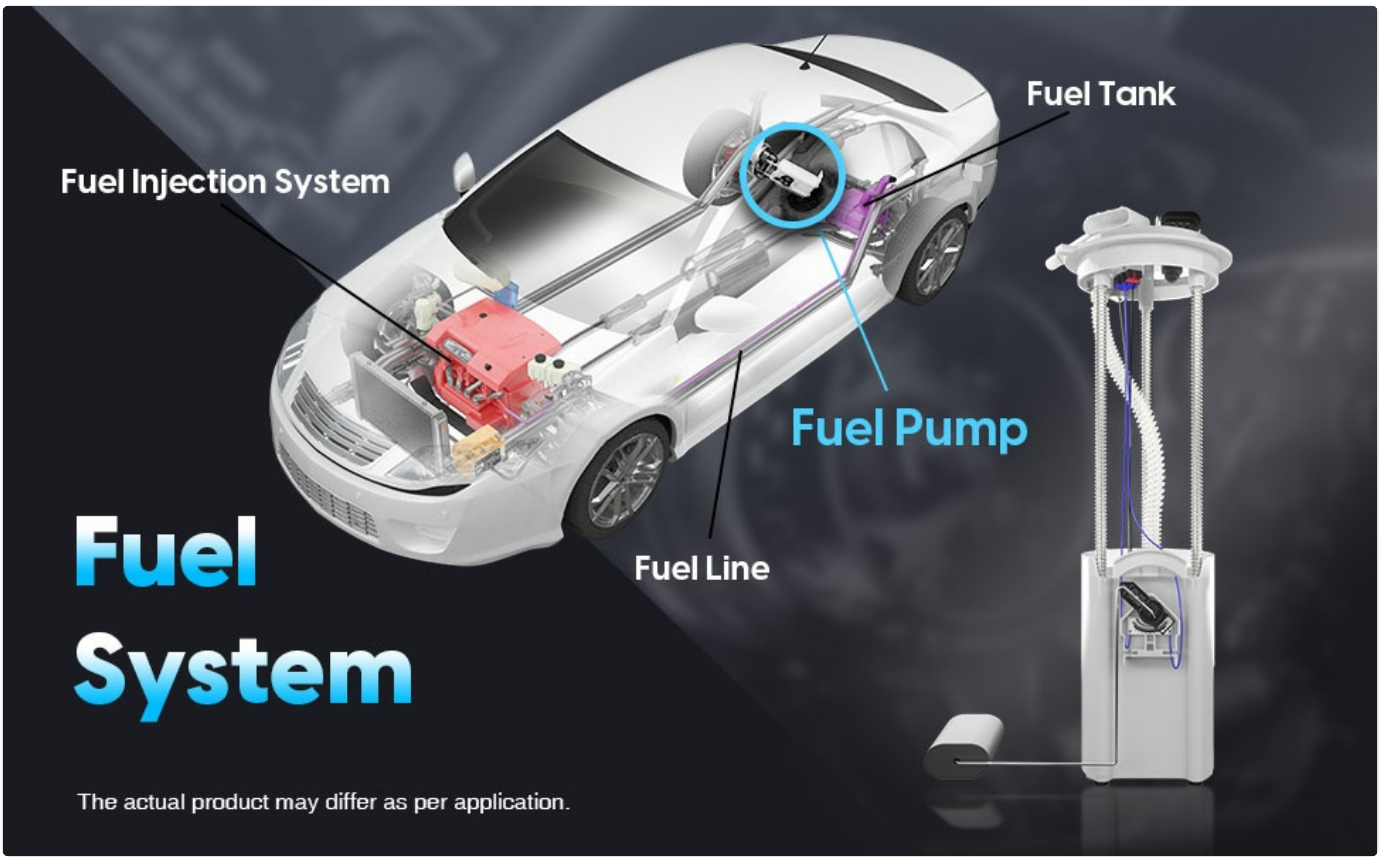

Figure 2.3: Diagram illustrating the fuel system components including the fuel tank, fuel pump, fuel line, and fuel injection system.

3. Compatibility

Vehicle Fitment:

This YHTAUTO Electric Fuel Pump with Sending Unit is compatible with the following vehicle:

- **Make:** Ford

- **Model:** Mustang
- **Year:** 2005
- **Engine:** V6 4.0L, V8 4.6L (GAS)
- **Side:** Left Side

Interchange Part Numbers:

- 4R3Z9H307AA
- 5R3Z9H307AC
- SP2062M
- P76342M
- SP2397M
- E2457M

4. Installation (Setup)

Safety Precautions:

- Always disconnect the vehicle's battery before beginning any work on the fuel system.
- Ensure the vehicle is on a stable, level surface and properly supported with jack stands.
- Work in a well-ventilated area, away from open flames or sparks.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Relieve fuel system pressure before disconnecting any fuel lines.

General Installation Steps:

1. Access the fuel tank: This typically involves removing the rear seats or accessing from underneath the vehicle.
2. Disconnect electrical connectors and fuel lines from the old fuel pump assembly.
3. Remove the retaining ring or bolts securing the old fuel pump assembly to the fuel tank.
4. Carefully remove the old fuel pump assembly from the tank.
5. Install the new YHTAUTO fuel pump assembly, ensuring all seals and gaskets are correctly seated.
6. Reconnect fuel lines and electrical connectors.
7. Secure the new assembly to the fuel tank.
8. Reconnect the vehicle's battery.
9. Turn the ignition to the 'ON' position (without starting the engine) several times to prime the fuel system and check for leaks.
10. Start the engine and check for proper operation and any fuel leaks.

REMINDER:

If you are not sure qualified or skilled to do the replacement, please consult with a professional technician. Please make sure to take necessary safety precaution before operation.

5. Operation

The electric fuel pump operates by drawing fuel from the fuel tank and delivering it under pressure to the engine's fuel injection system. This continuous and regulated supply of fuel is crucial for the engine's combustion process, ensuring smooth running and efficient power generation. The sending unit integrated with the pump accurately measures the fuel level in the tank and transmits this information to the vehicle's fuel gauge.

6. Maintenance

While the YHTAUTO Electric Fuel Pump is designed for durability and long service life, proper vehicle maintenance contributes to its optimal performance. Regularly check your vehicle's fuel filter and replace it according to your vehicle manufacturer's recommendations. A clogged fuel filter can put undue strain on the fuel pump, potentially leading to premature failure. Avoid running your fuel tank consistently low, as this can cause the fuel pump to overheat due to lack of fuel for cooling.

7. Troubleshooting

Identifying a Malfunctioning Fuel Pump:

Recognizing the symptoms of a failing fuel pump can help in timely diagnosis and replacement. Common indicators include:

- **Car Sputters at High Speeds:** Inconsistent fuel delivery can cause the engine to hesitate or sputter, especially under acceleration.
- **Loss of Power While Accelerating:** A weak fuel pump may not supply enough fuel to meet the engine's demands during acceleration, leading to a noticeable loss of power.
- **Sudden and Unexplained Power Surges:** Intermittent fuel pressure can cause unexpected surges in power.
- **Difficulty or Fails to Start:** Insufficient fuel pressure can prevent the engine from starting or cause prolonged cranking.
- **Low Gas Mileage:** An inefficient fuel pump can lead to the engine running rich, consuming more fuel than necessary.
- **Whining Noise From the Fuel Tank:** A failing fuel pump may produce an audible whining or humming sound from the rear of the vehicle, particularly when the fuel level is low.



Figure 7.1: Visual guide to symptoms of a malfunctioning fuel pump.

8. Specifications

Attribute	Value
Brand	YHTAUTO
Model Number	YHTFP0143
Fit Type	Vehicle Specific Fit
Vehicle Service Type	Car, Truck
Item Weight	1.31 Kilograms (2.88 pounds)
Specification Met	OE
Auto Part Position	Left
Body Material	Plastic
Operation Mode	Electric
Mounting Type	Tank Mount
Gas Type	Petrol

9. Warranty and Support

YHTAUTO is committed to providing high-quality automotive parts. For specific warranty information or technical support, please refer to the product packaging or contact YHTAUTO customer service directly. Ensure you have your product model number (YHTFP0143) and purchase details available when seeking support.

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