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TYC 150183-A

TYC 150183-A Fuel Pump Module Assembly User Manual

Brand: TYC | **Model:** 150183-A

1. Product Overview

The TYC 150183-A Fuel Pump Module Assembly is engineered to provide reliable fuel delivery for compatible 1996 Jeep Grand Cherokee vehicles equipped with 4.0L or 5.2L engines. Manufactured with premium materials, this module is designed for direct, hassle-free installation and quiet operation, ensuring years of trouble-free service. It meets OE specifications for fit and performance.



Figure 1: TYC 150183-A Fuel Pump Module Assembly. This image shows the complete fuel pump module assembly, including the main body, electrical connections, and the fuel level sending unit float arm.

2. Package Contents

Upon opening the package, verify that all components are present and undamaged:

- 1 x TYC 150183-A Fuel Pump Module Assembly

3. Key Features

- **OE-Comparable Harness:** Designed with an OE-comparable harness (no pigtail connector) and mounting provisions for a direct, hassle-free drop-in installation.
- **Quality Assurance:** Undergoes rigorous accelerated cycling tests to ensure product quality and long-term durability.

- **Factory Tested:** Each unit is individually power-tested at the factory to guarantee full functionality upon installation.
- **Enhanced Durability:** Includes upgraded carbon commutator and other components for increased durability and operational efficiency.

4. Installation Guide

Important Safety Notice: Installation of fuel system components should only be performed by a qualified automotive technician. Working with fuel systems involves risks of fire, explosion, and exposure to hazardous chemicals. Always disconnect the vehicle's battery and relieve fuel system pressure before beginning any work.

1. **Preparation:** Ensure the vehicle's fuel tank is as empty as possible. Disconnect the negative terminal of the vehicle's battery. Relieve fuel system pressure according to the vehicle manufacturer's service manual.
2. **Access Fuel Tank:** Depending on the vehicle model, access to the fuel pump module may require lowering the fuel tank or accessing it from under the rear seat/cargo area. Consult your vehicle's service manual for specific instructions.
3. **Disconnect Components:** Carefully disconnect the electrical connector and fuel lines from the existing fuel pump module. Be prepared for residual fuel leakage and use appropriate containment.
4. **Remove Old Module:** Remove the retaining ring or bolts securing the old fuel pump module to the fuel tank. Carefully lift the old module out, ensuring the fuel level sending unit arm does not snag.
5. **Install New Module:** Inspect the fuel tank's sealing surface and clean if necessary. Install the new TYC 150183-A Fuel Pump Module Assembly, ensuring the new O-ring or gasket is properly seated to prevent leaks. Secure the module with the retaining ring or bolts.
6. **Connect Components:** Reconnect the fuel lines and the electrical connector to the new module. Ensure all connections are secure and free of leaks.

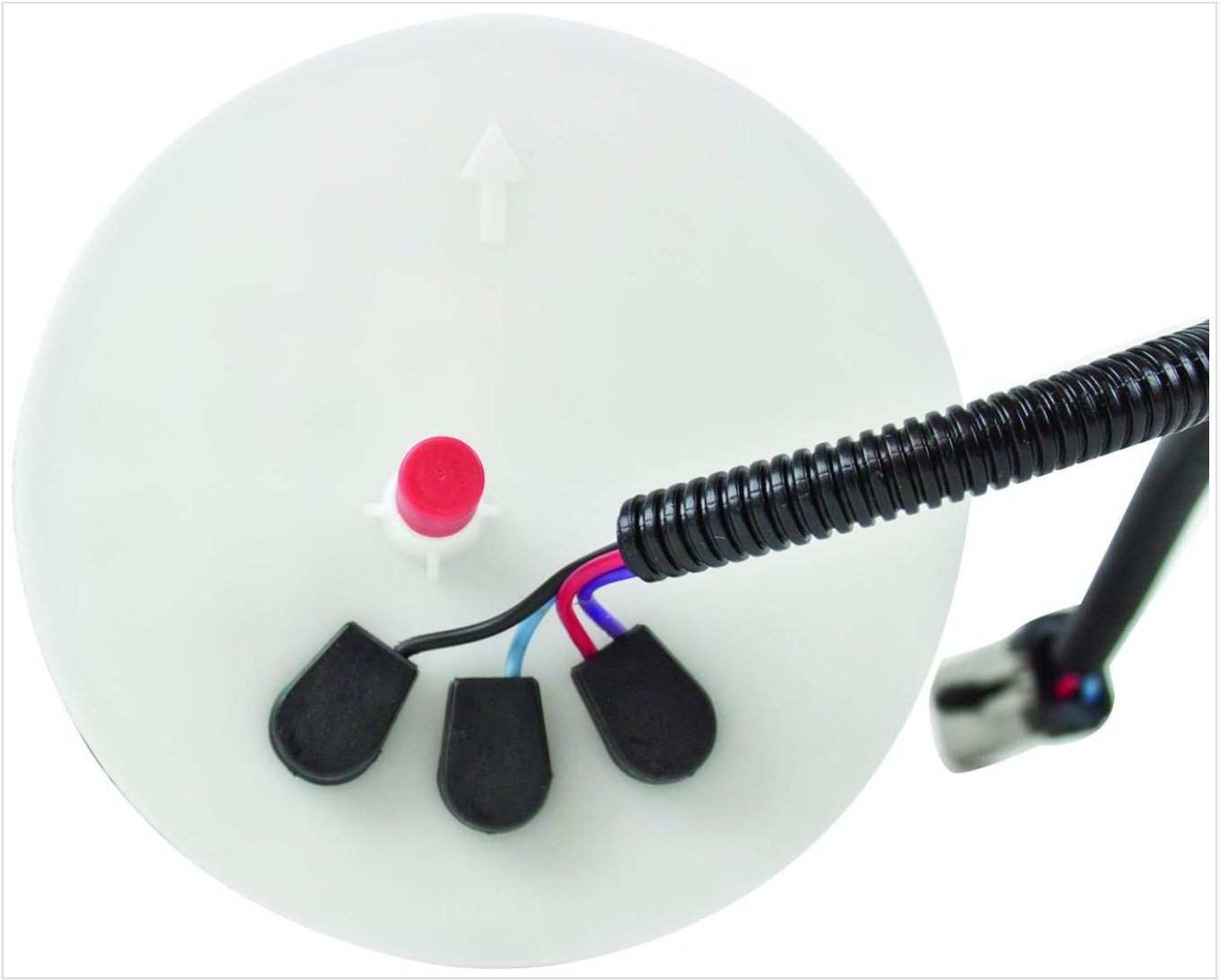


Figure 2: Top view of the fuel pump module, highlighting the electrical and fuel line connections. Proper connection of these points is crucial for safe and effective operation.

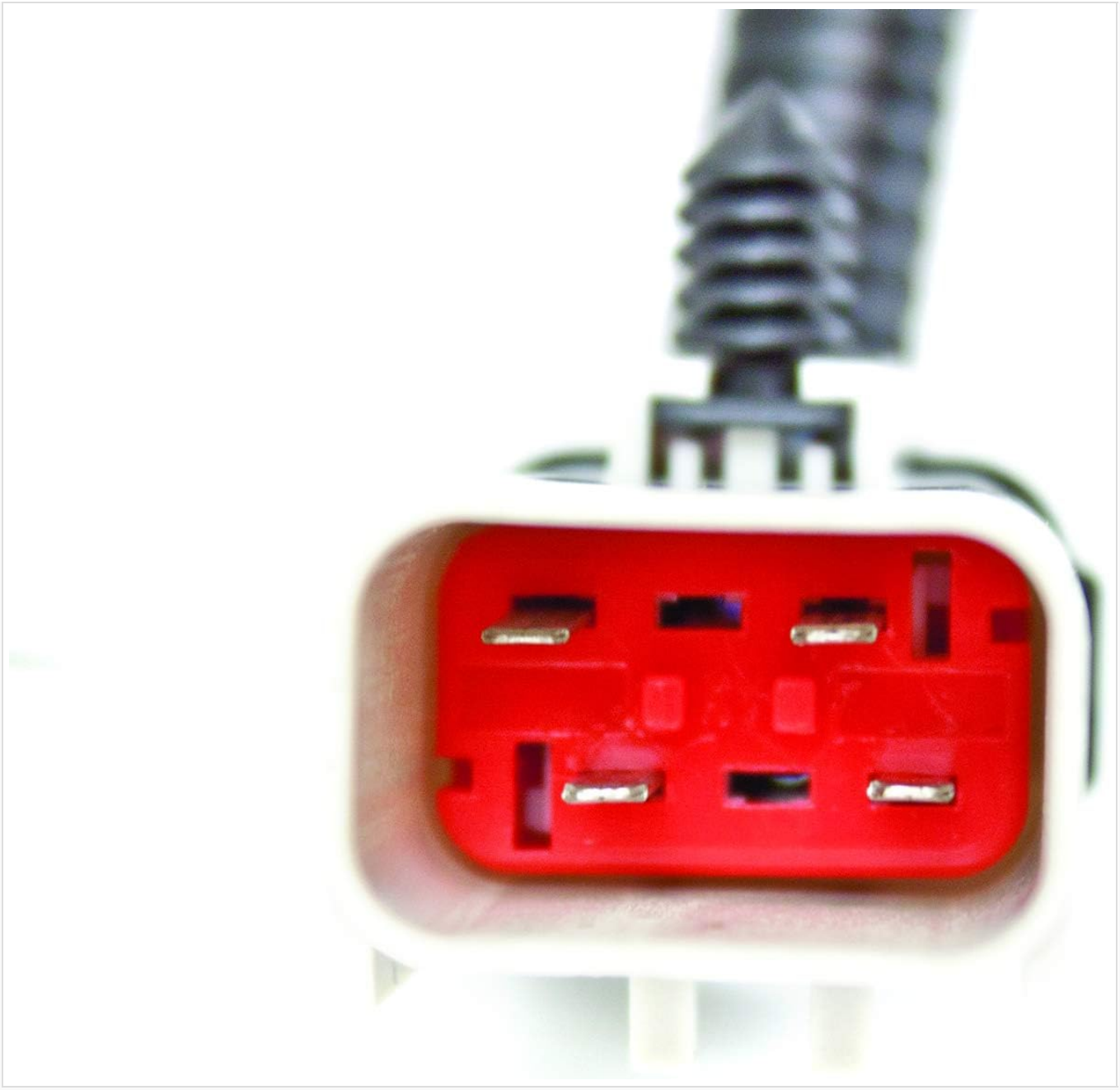


Figure 3: Detailed view of the electrical connector. Ensure this connector is clean and securely latched to prevent intermittent power issues.

Post-Installation Check: Reconnect the battery. Turn the ignition to the 'ON' position (without starting the engine) for a few seconds to allow the fuel pump to prime the system. Check for any fuel leaks around the module and connections. Start the engine and re-check for leaks and proper operation.

5. Operation

The TYC 150183-A Fuel Pump Module Assembly operates automatically as part of your vehicle's fuel delivery system. When the ignition is turned on, the vehicle's computer activates the fuel pump to pressurize the fuel lines, ensuring a consistent supply of fuel to the engine. The integrated fuel level sending unit accurately reports the fuel level to your vehicle's dashboard gauge.



Figure 4: Internal view of the fuel pump module, illustrating the fuel level sending unit with its float arm. This mechanism accurately measures the fuel level in the tank.

6. Maintenance

The TYC 150183-A Fuel Pump Module Assembly is a sealed unit and generally requires no routine maintenance. However, to ensure the longevity and optimal performance of your fuel system, consider the following:

- **Fuel Quality:** Always use high-quality fuel from reputable sources. Poor quality or contaminated fuel can lead to premature wear of fuel system components, including the fuel pump.
- **Fuel Filter:** Regularly check and replace your vehicle's fuel filter according to the manufacturer's recommendations. A clogged fuel filter can put excessive strain on the fuel pump.
- **Avoid Running on Low Fuel:** Consistently running your vehicle with a very low fuel level can expose the fuel pump to air and reduce its cooling, potentially shortening its lifespan.

7. Troubleshooting

If you experience issues with your vehicle's fuel delivery after installing the TYC 150183-A Fuel Pump Module Assembly, consider the following common troubleshooting steps. For complex issues, professional diagnosis is recommended.

- **Engine Cranks but Won't Start:**
  - Check for proper electrical connection to the fuel pump module.
  - Verify that the fuel pump fuse and relay are intact and functioning.
  - Listen for the fuel pump priming sound when the ignition is turned to 'ON'.
  - Check for fuel pressure at the fuel rail (requires specialized tools).
- **Engine Stalling or Hesitation:**
  - Could indicate insufficient fuel pressure. Check fuel filter for clogging.
  - Inspect fuel lines for kinks or damage.
- **Inaccurate Fuel Gauge Reading:**
  - Ensure the fuel level sending unit arm was not bent or damaged during installation.
  - Check the electrical connection to the sending unit.
- **Fuel Leaks:**
  - Immediately address any fuel leaks. Re-check the sealing O-ring/gasket and the tightness of the retaining ring/bolts.
  - Inspect fuel line connections for proper seating and tightness.

If these steps do not resolve the issue, it is recommended to consult a certified mechanic for professional diagnosis and repair.

8. Technical Specifications

Specification	Detail
Brand	TYC
Model Number	150183-A

Specification	Detail
Fit Type	Vehicle Specific Fit
Vehicle Service Type	Car
Style	Gerotor
Specification Met	OE
Operation Mode	Mechanical
OEM Part Number	5003867AD
UPC	762405825502
Item Weight	3.59 pounds
Package Dimensions	14.58 x 7.09 x 6.7 inches

9. Warranty and Support

TYC stands behind the quality of its products. For specific warranty information regarding your TYC 150183-A Fuel Pump Module Assembly, please refer to the warranty documentation included with your purchase or visit the official TYC website. For technical support, installation assistance, or any product-related inquiries, please contact TYC customer service through their official channels.

You can find more information and contact details on theTYC Store on Amazon.

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