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APR MS100016

APR MS100016 High Pressure Fuel Pump - 2.0T EA113 User Manual

Comprehensive instructions for installation, operation, and maintenance.

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1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your APR MS100016 High Pressure Fuel Pump. This pump is specifically designed for 2.0T EA113 engines to enhance fuel delivery. Please read this manual thoroughly before proceeding with any installation or operation.

2. SAFETY INFORMATION

WARNING: Improper installation or handling of fuel system components can lead to serious injury, fire, or explosion. Always follow safety precautions.

- Installation should only be performed by qualified automotive technicians.
- Ensure the vehicle's battery is disconnected before beginning any work.
- Relieve fuel system pressure before disconnecting any fuel lines.
- Work in a well-ventilated area, away from open flames or ignition sources.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Refer to the vehicle manufacturer's service manual for specific procedures and torque specifications.
- Do not modify the fuel pump or its components.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before proceeding with installation.

- APR MS100016 High Pressure Fuel Pump - 2.0T EA113



Figure 3.1: The APR MS100016 High Pressure Fuel Pump assembly. This image shows the complete unit as it would appear out of the box, ready for installation.

4. SETUP & INSTALLATION

Installation of the APR MS100016 High Pressure Fuel Pump requires specialized tools and knowledge of automotive fuel systems. It is strongly recommended that this procedure be performed by a certified professional technician.

4.1 Pre-Installation Checks

- Confirm the vehicle is a 2.0T EA113 engine.
- Ensure all necessary tools and replacement gaskets/seals are available.
- Verify the new fuel pump matches the original equipment for fitment.

4.2 General Installation Steps (Professional Installation Recommended)

1. Safely lift and support the vehicle.
2. Disconnect the vehicle's battery.
3. Relieve fuel system pressure according to the vehicle manufacturer's instructions.
4. Carefully disconnect electrical connectors and fuel lines from the existing high-pressure fuel pump.
5. Remove the old high-pressure fuel pump.
6. Install the new APR MS100016 pump, ensuring all connections are secure and torqued to manufacturer specifications. Use new seals and gaskets as required.
7. Reconnect electrical connectors and fuel lines.
8. Reconnect the vehicle's battery.
9. Prime the fuel system and check for leaks before starting the engine.
10. Start the engine and verify proper operation and absence of fuel leaks.

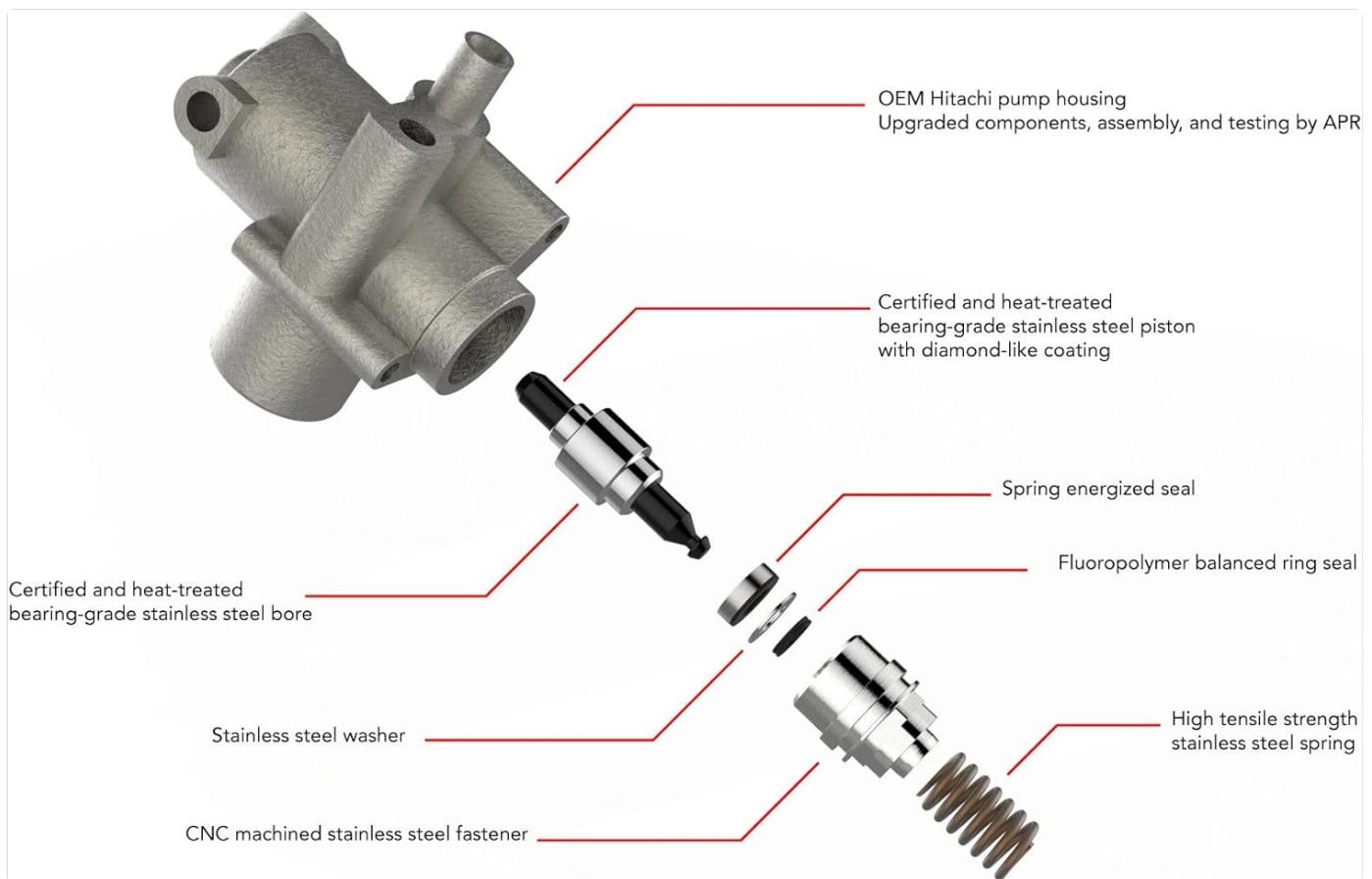


Figure 4.1: Exploded view illustrating the internal components of the APR High Pressure Fuel Pump. This diagram highlights key elements such as the piston, seals, and springs, which are critical for the pump's function.

5. OPERATION

The APR MS100016 High Pressure Fuel Pump operates automatically as part of the vehicle's engine management system. Once installed correctly, it will deliver the necessary fuel pressure to the engine's direct injection system. No user intervention is required for its operation.

- The pump is designed to provide consistent and reliable high-pressure fuel delivery.
- Proper engine tuning may be required to fully utilize the capabilities of this performance fuel pump. Consult with an APR authorized tuner.

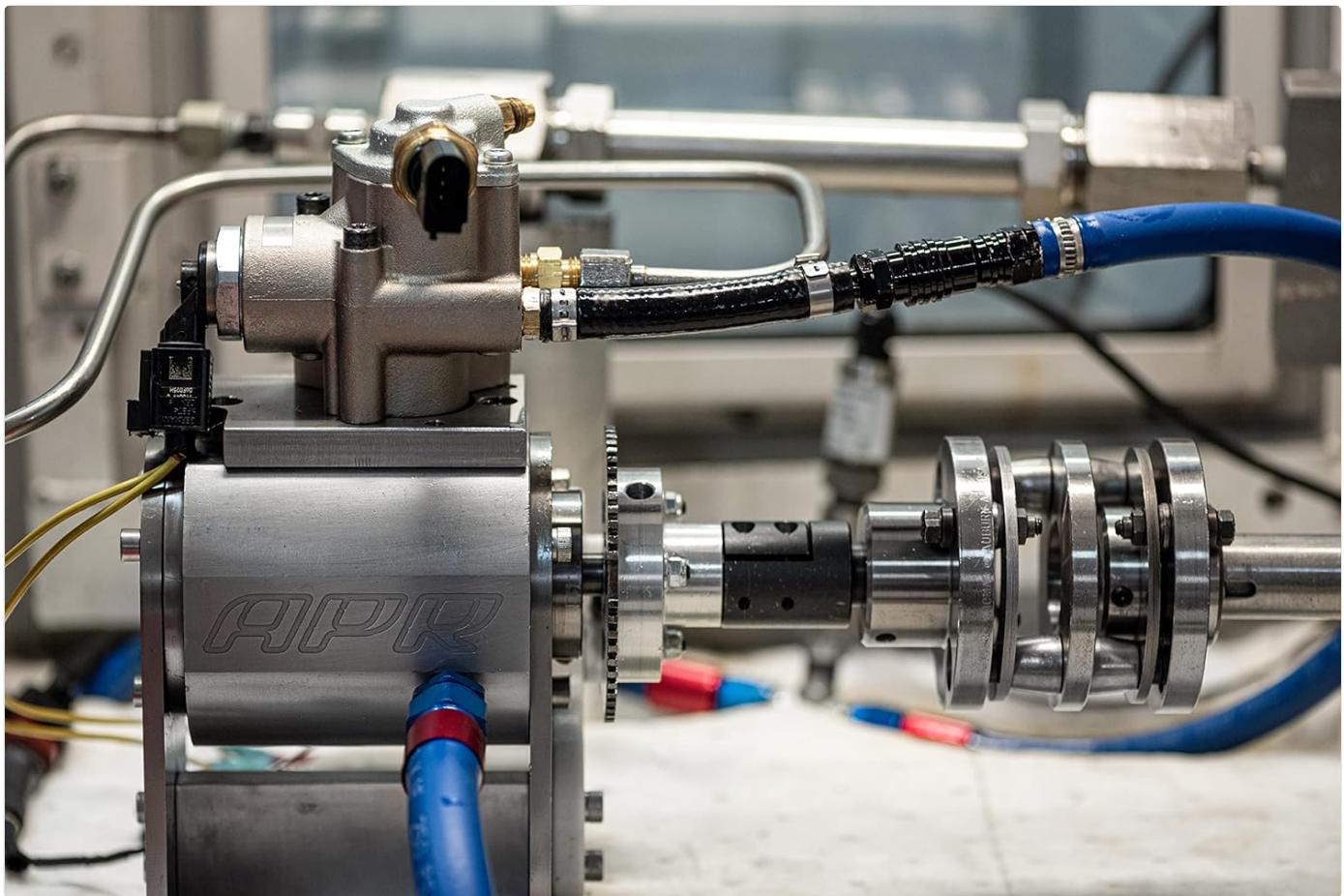


Figure 5.1: The APR High Pressure Fuel Pump undergoing rigorous testing on a specialized test bench. This demonstrates the quality control and performance validation processes.

6. MAINTENANCE

The APR MS100016 High Pressure Fuel Pump is designed for long-term reliability and typically requires no routine maintenance beyond standard vehicle service intervals. However, regular inspection of the fuel system is recommended.

- Periodically inspect fuel lines and connections for any signs of leaks or damage.
- Ensure all electrical connections remain secure and free of corrosion.
- Adhere to the vehicle manufacturer's recommended fuel filter replacement schedule. A clogged fuel filter can negatively impact fuel pump performance and longevity.

7. TROUBLESHOOTING

If you experience issues with your fuel system after installing the APR MS100016 High Pressure Fuel Pump, consider the following common troubleshooting steps. For complex issues, consult a qualified technician.

Symptom	Possible Cause	Solution
Engine misfires or loss of power	Insufficient fuel pressure, clogged fuel filter, incorrect installation.	Check fuel pressure, replace fuel filter, verify installation steps.
Fuel leaks	Loose connections, damaged seals/gaskets.	Inspect all fuel lines and connections, replace any damaged seals or gaskets.
Check Engine Light (CEL)	Faulty sensor, electrical issue, fuel system malfunction.	Scan for diagnostic trouble codes (DTCs) and address the specific issue.

8. SPECIFICATIONS

Feature	Detail
Model Number	MS100016
Application	2.0T EA113 Engines
Fit Type	Vehicle Specific Fit
Material	Plastic (Body), Stainless Steel (Internal Components)
Operation Mode	Mechanical
Gas Type	Gasoline
Item Dimensions (L x W x H)	9 x 7 x 5 inches
Weight	Approximately 2268 Grams (Package Weight)

9. WARRANTY INFORMATION

The APR MS100016 High Pressure Fuel Pump is covered by a manufacturer's warranty. For detailed information regarding warranty terms, conditions, and claim procedures, please refer to the official APR website or contact APR customer support directly. Proof of purchase and professional installation may be required for warranty claims.

10. CUSTOMER SUPPORT

For technical assistance, installation guidance, or any questions regarding your APR MS100016 High Pressure Fuel Pump, please contact APR customer support through their official website or authorized dealers. Always provide your product model number (MS100016) and proof of purchase when seeking support.

APR Official Website: www.goapr.com