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Aeromotive 13701 Regulator Spring Replacement Kit User Manual

For Aeromotive Fuel Pressure Regulators P/N 13301 and P/N 13351

INTRODUCTION

This manual provides essential information regarding the Aeromotive 13701 Regulator Spring Replacement Kit. This kit is designed to replace the internal springs within specific Aeromotive fuel pressure regulators, allowing for adjustment of fuel pressure ranges. Proper installation and understanding of this component are crucial for the correct operation of your fuel system.

PRODUCT CONTENTS

The Aeromotive 13701 Regulator Spring Replacement Kit includes the following components:

- One (1) High Pressure Spring
- One (1) Low Pressure Spring



Image: The Aeromotive 13701 kit contains both a high pressure spring (taller, more coils) and a low pressure spring (shorter, fewer coils) for fuel pressure regulator adjustment.

COMPATIBILITY

This spring replacement kit is specifically designed for use with the following Aeromotive fuel pressure regulators:

- Aeromotive P/N 13301 Regulator
- Aeromotive P/N 13351 Regulator

Important: This kit is not intended for use with any other Aeromotive bypass regulator or regulators from other manufacturers. Using incorrect springs can lead to improper fuel pressure regulation and potential engine damage.

FUNCTION OF REGULATOR SPRINGS

Fuel pressure regulators utilize springs to maintain a consistent fuel pressure differential across the fuel injectors. The choice of spring dictates the operational pressure range of the regulator.

- **High Pressure Spring:** Typically used for applications requiring higher base fuel pressure settings.
- **Low Pressure Spring:** Typically used for applications requiring lower base fuel pressure settings.

The 13701 kit provides both options, allowing users to configure their compatible Aeromotive regulator (13301 or 13351) for either high or low pressure applications as needed.

INSTALLATION GUIDELINES

Installation of fuel system components requires specialized knowledge and tools. It is highly recommended that installation be performed by a qualified professional.

Safety Precautions:

- Always disconnect the vehicle's battery before working on the fuel system.
- Relieve fuel system pressure before disassembling any components.
- Ensure adequate ventilation to prevent accumulation of fuel vapors.
- Have a fire extinguisher readily available.
- Wear appropriate personal protective equipment, including eye protection and fuel-resistant gloves.

General Procedure for Spring Replacement:

1. Safely relieve fuel pressure from the system.
2. Carefully remove the top cap or housing of the compatible Aeromotive regulator (13301 or 13351) according to the specific regulator's instructions.
3. Remove the existing spring.
4. Insert the desired new spring (high pressure or low pressure) from the 13701 kit into the regulator.
5. Reassemble the regulator, ensuring all seals and O-rings are correctly seated and not damaged.
6. Reconnect fuel lines and check for leaks.
7. Start the engine and verify proper fuel pressure using a reliable fuel pressure gauge. Adjust as necessary.

Refer to the original Aeromotive regulator's instruction manual for detailed disassembly and reassembly procedures.

MAINTENANCE

The springs themselves generally do not require routine maintenance. However, regular inspection of the fuel pressure regulator and associated fuel system components is recommended.

- Periodically check fuel lines and connections for leaks.
- Monitor fuel pressure during operation to ensure it remains within the desired range.
- Inspect the regulator's O-rings and seals for signs of wear or degradation. Replace if necessary.

TROUBLESHOOTING

If you experience issues after replacing the regulator springs, consider the following:

Incorrect Fuel Pressure:

- **Pressure too high or too low:** Verify that the correct spring (high or low pressure) was installed for your application. Ensure the regulator adjustment screw is set correctly.

- **Inconsistent pressure:** Check for proper seating of the spring and diaphragm within the regulator. Inspect for any debris or damage that might impede regulator function.

Fuel Leaks:

- Ensure all fittings are tightened to the manufacturer's specifications.
- Inspect O-rings and seals for damage or improper installation. Replace any compromised seals.

If problems persist, consult a qualified automotive technician or contact Aeromotive technical support.

SPECIFICATIONS

Part Number	13701
Product Type	Regulator Spring Replacement Kit
Compatibility	Aeromotive Regulators P/N 13301, P/N 13351
Contents	High Pressure Spring, Low Pressure Spring
Item Weight	0.704 ounces (approximate)

WARRANTY AND SUPPORT

For specific warranty information and technical support regarding the Aeromotive 13701 Regulator Spring Replacement Kit or compatible regulators, please refer to the official Aeromotive website or contact Aeromotive customer service directly.

Aeromotive Contact Information:

- Website: www.aeromotiveinc.com
- Refer to the website for current contact numbers and support resources.