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Aeromotive 13201

Aeromotive 13201 Carburetor Fuel Pressure Regulator User Manual

Brand: Aeromotive | Model: 13201

INTRODUCTION

The Aeromotive 13201 Carburetor Fuel Pressure Regulator is designed to enhance the performance of gasoline-fueled racing or street engines up to 750 FWHP. This adjustable regulator features a dead-head design, providing high flow, rapid response, and effective prevention of pressure creep. It offers precise fuel pressure adjustment from 5-10 PSI and includes ORB-06 inlet and outlet ports, along with a dedicated 1/8" NPT gauge port. Optimized for secure installation with its robust mounting bracket, this regulator is also suitable for nitrous applications, ensuring reliable operation under demanding conditions.

SAFETY INFORMATION

WARNING: Improper installation or use of this product can lead to serious injury, fire, or explosion. Always follow all instructions and safety precautions.

- Installation should only be performed by a qualified professional.
- Ensure the vehicle's fuel system is depressurized before beginning any work.
- Always disconnect the battery before working on electrical components.
- Wear appropriate personal protective equipment (PPE), including eye protection and gloves.
- Do not use this regulator with alcohol fuels. It is specifically designed for gasoline applications.
- Ensure all fuel lines and connections are properly secured and free of leaks.
- Keep a fire extinguisher readily available during installation and testing.

WHAT'S IN THE BOX

- Aeromotive 13201 Carbureted Adjustable Fuel Pressure Regulator (Billet 2-Port AN-6)
- Mounting Bracket

SETUP AND INSTALLATION

Proper installation is critical for the safe and effective operation of your Aeromotive fuel pressure regulator. It is highly recommended that installation be performed by a certified automotive technician. For detailed instructions, please refer to the official installation manual provided by Aeromotive:

General Installation Guidelines:

1. **Preparation:** Ensure the vehicle's fuel system is completely depressurized and the battery is disconnected. Gather all necessary tools and fittings (ORB-06 fittings are required for inlet/outlet).
2. **Mounting:** Select a suitable location for the regulator, preferably close to the carburetor, ensuring it is securely mounted using the provided bracket. The location should be away from heat sources and moving parts.
3. **Fuel Line Connections:** Connect the fuel supply line from the pump to the inlet port (typically the bottom port). Connect the outlet port(s) to the carburetor(s). The regulator features two outlet ports for versatility; block off any unused ports with appropriate plugs.
4. **Gauge Installation:** Install a fuel pressure gauge into the dedicated 1/8" NPT gauge port to monitor pressure.
5. **Leak Check:** After all connections are made, re-connect the battery and prime the fuel system. Carefully inspect all connections for any signs of fuel leaks before starting the engine.
6. **Initial Adjustment:** With the engine running, adjust the regulator to the desired fuel pressure within the 5-10 PSI range.



Figure 1: The Aeromotive 13201 Carburetor Fuel Pressure Regulator with its mounting bracket. This image shows the primary view of the product, highlighting its compact design and connection points.

SS-SERIES ORB-06 CARBURETOR FUEL PRESSURE REGULATOR

For Carbureted Street or Racing Engines on Gasoline ●

Base Pressure Adjustable: 5-10 PSI ●

Dead-Head Regulator for up to
750 FWHP on gas ●



Figure 2: Overview of the SS-Series ORB-06 Carburetor Fuel Pressure Regulator, detailing its suitability for carbureted street or racing engines on gasoline, adjustable base pressure (5-10 PSI), and dead-head design for up to 750 FWHP.

PRODUCT SPECIFICATIONS

- Adjustable: Yes
- 1/8" NPT Gauge Port
- Inlet Port Diameter: ORB-06



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Figure 3: A visual representation highlighting key product specifications such as adjustability, 1/8" NPT gauge port, and ORB-06 inlet port diameter.

OPERATING INSTRUCTIONS

The Aeromotive 13201 regulator is designed for straightforward operation once installed. Its primary function is to maintain a consistent fuel pressure to your carburetor(s).

Adjusting Fuel Pressure:

- The regulator features an adjustment screw, typically located on the top.
- To increase fuel pressure, turn the adjustment screw clockwise.
- To decrease fuel pressure, turn the adjustment screw counter-clockwise.
- Always make small adjustments and monitor the fuel pressure using a reliable gauge connected to the 1/8" NPT port.
- The adjustable range for this regulator is 5-10 PSI. Do not attempt to operate outside this range.
- The dead-head design ensures minimal pressure creep, providing stable fuel delivery.

ADVANCED FUEL CONTROL

○ Enhanced Performance

Higher flow and quicker response

○ Pressure Creep Prevention

Re-seats when the needle and seat close

○ Versatile Applications

Popular in circle track applications, including NASCAR-level horsepower engines



Figure 4: This image illustrates the advanced fuel control features of the regulator, including enhanced performance through higher flow and quicker response, pressure creep prevention, and its versatility in applications like circle track racing.

MAINTENANCE

The Aeromotive 13201 fuel pressure regulator is designed for durability and minimal maintenance. However, periodic checks are recommended to ensure optimal performance and safety:

- **Inspect for Leaks:** Regularly check all fuel lines and fittings connected to the regulator for any signs of leaks. Address any leaks immediately.
- **Check Pressure Stability:** Periodically monitor the fuel pressure gauge to ensure consistent readings and proper operation within the specified range.
- **Cleanliness:** Keep the exterior of the regulator clean and free from dirt, debris, or corrosive substances.
- **Component Integrity:** Inspect the mounting bracket and the regulator body for any signs of damage, corrosion, or wear.

TROUBLESHOOTING

If you experience issues with your Aeromotive 13201 fuel pressure regulator, consider the following common troubleshooting steps:

- **Unstable or Fluctuating Pressure:**

- Check for air in the fuel system.
- Ensure the fuel pump is providing adequate and consistent flow.
- Verify all connections are tight and free of leaks.
- Inspect the fuel filter for clogs.

- **Pressure Too High/Low (and not adjustable):**

- Confirm the gauge is accurate.
- Ensure the adjustment screw is not stripped or damaged.
- Check for obstructions in the fuel lines or regulator ports.
- Verify the regulator is correctly plumbed (inlet/outlet).

- **Fuel Leaks:**

- Immediately shut down the engine and depressurize the fuel system.
- Inspect all fittings (ORB-06) for proper tightness and sealing.
- Check O-rings and seals for damage or improper seating.
- Ensure fuel lines are not cracked or chafed.

If issues persist after troubleshooting, contact Aeromotive customer support or consult a qualified automotive professional.

SPECIFICATIONS

Attribute	Detail
Manufacturer	Aeromotive
Brand	Aeromotive
Model	Aeromotive 13201 Regulator, Carbureted Adjustable, Billet 2-Port AN-6
Item Weight	12.8 ounces
Country of Origin	China
Item Model Number	13201
Exterior	Painted
Manufacturer Part Number	13201
OEM Part Number	13201
Adjustable Pressure Range	5-10 PSI
Inlet/Outlet Ports	ORB-06
Gauge Port	1/8" NPT
Fuel Compatibility	Gasoline (Not rated for alcohol fuels)
Max FWHP (Gasoline)	Up to 750 FWHP

WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance with your Aeromotive 13201 Carburetor Fuel Pressure Regulator, please refer to the official Aeromotive resources:

- **Official Installation Manual (PDF):**
<https://manuals.plus/m/ed7f14557cd0034cb6112caa594a53f5a8da0bf02fcb4da2b449e49339e8beb>
- **Aeromotive Brand Store on Amazon:** [Visit the Aeromotive Store](#)
- For direct support, please visit the official Aeromotive website or contact their customer service department.