

ACCEL 150830

ACCEL Performance Fuel Injectors 30Lb 8-Pak, Silver (150830) - Instruction Manual

Brand: ACCEL | Model: 150830

1. PRODUCT OVERVIEW

ACCEL 30-pound-per-hour High Impedance Performance fuel injectors are engineered to provide precise control of fuel delivery and atomization. This results in enhanced power, improved throttle response, and better fuel economy. The special EV1 design ensures compatibility with various fuel types including gas, E85, and methanol.

These injectors are entirely new units, not modified stock injectors or remanufactured from used cores. They feature a new, low-mass disc design that creates an ultra-fine atomization spray pattern, ensuring accurate metering control across both ultra-low and ultra-high duty cycles. They are designed to operate effectively at higher fuel pressures without compromising metering control, making them ideal for applications such as supercharged engines where precise fuel delivery is critical.

Modern manufacturing processes minimize flow deviation between individual injectors, ensuring consistent performance across the set. Both low- and high-impedance designs are available to match specific vehicle ECU requirements. Each injector is ready for installation and includes fine-mesh fuel strainers and precision-molded O-rings.



Figure 1.1: An 8-pack of ACCEL 30Lb Performance Fuel Injectors, silver body with black top.

2. KEY FEATURES

- Maintains precise control of fuel delivery and atomization for more power, better throttle response, and improved fuel

economy.

- Special EV1 design is compatible with gas, E85, or methanol.
- All new construction, not a modified stock injector and not remanufactured from a used core.
- Features ultra-fine atomization and accurate metering control.
- Flows 30 pounds per hour.

3. SETUP AND INSTALLATION

Installation of fuel injectors requires mechanical expertise and specialized tools. It is highly recommended that installation be performed by a qualified automotive technician.

3.1 Pre-Installation Checks

- Verify that the ACCEL 150830 injectors are the correct flow rate (30 Lb/hr) and impedance for your vehicle's engine and ECU.
- Ensure the vehicle's fuel system is depressurized before beginning any work.
- Inspect the new injectors for any visible damage.
- Confirm that the included O-rings and fuel strainers are properly seated.





Figure 3.1: Close-up view of a single ACCEL fuel injector, highlighting the electrical connector and the main body.

3.2 Installation Steps (General Guidelines)

1. Disconnect the vehicle's battery.
2. Relieve fuel system pressure.
3. Carefully remove the existing fuel rail and injectors. Note the orientation of the old injectors.
4. Lubricate the O-rings of the new ACCEL injectors with a small amount of clean engine oil or a suitable lubricant to prevent damage during installation.
5. Install the new injectors into the fuel rail, ensuring they are fully seated and oriented correctly.
6. Reinstall the fuel rail assembly onto the engine, ensuring all mounting bolts are torqued to manufacturer specifications.
7. Reconnect all electrical connectors to the injectors.
8. Reconnect fuel lines and check for leaks.
9. Reconnect the vehicle's battery.
10. **Important:** After installing higher flow rate injectors, it is crucial to have the vehicle's Engine Control Unit (ECU)

reprogrammed or tuned to properly manage the increased fuel flow. Failure to do so can lead to incorrect air/fuel ratios, engine damage, or poor performance.





Figure 3.2: Top view of the ACCEL fuel injector, illustrating the electrical connector interface.



Figure 3.3: Bottom view of the ACCEL fuel injector, showing the fuel delivery nozzle and lower O-ring.

4. OPERATING CONSIDERATIONS

Once installed and the ECU has been properly tuned, these ACCEL performance fuel injectors will operate seamlessly as part of your vehicle's fuel system. Their design ensures consistent and accurate fuel delivery under various operating conditions, contributing to optimal engine performance and efficiency.

Always ensure your vehicle's fuel system is maintained according to manufacturer recommendations. Use appropriate fuel types as specified for your vehicle and the injectors (gas, E85, or methanol compatible).

5. MAINTENANCE

ACCEL fuel injectors are designed for long-term reliability and typically require no routine maintenance beyond ensuring a clean fuel supply. Regular maintenance of your vehicle's fuel filter is crucial to prevent contaminants from reaching and potentially clogging the injectors.

- **Fuel Filter Replacement:** Adhere to your vehicle manufacturer's recommended schedule for fuel filter replacement. A clogged fuel filter can restrict fuel flow and put undue stress on the fuel pump and injectors.
- **Fuel Quality:** Use high-quality fuel from reputable sources to minimize the introduction of impurities.
- **Fuel System Cleaners:** Consult with a qualified technician before using aftermarket fuel system cleaners, as some may not be suitable for all fuel system components.

6. TROUBLESHOOTING

If you experience issues after installing your ACCEL performance fuel injectors, consider the following common troubleshooting steps. Always consult a qualified technician for diagnosis and repair.

Symptom	Possible Cause	Action
Rough idle or misfires	Incorrect ECU tuning Leaking O-rings Clogged fuel filter Faulty electrical connection	Verify ECU tune is correct for 30Lb injectors. Inspect O-rings for proper seating and damage. Check and replace fuel filter if necessary. Ensure injector electrical connectors are secure.
Poor fuel economy	Incorrect ECU tuning Fuel leaks	Confirm ECU is tuned for the new injectors. Inspect fuel lines and injector seals for leaks.
Check Engine Light (CEL)	Incorrect air/fuel ratio Sensor issues Injector circuit fault	Scan for diagnostic trouble codes (DTCs). Address any tuning or sensor-related issues indicated by DTCs.

Note: Many performance issues after injector installation are related to improper ECU tuning. Always ensure your vehicle's ECU is professionally tuned to match the new injector flow rate.

7. SPECIFICATIONS

Attribute	Detail
Brand	ACCEL
Model Number	150830
Flow Rate	30 pounds per hour (Lb/hr)
Impedance	High Impedance
Compatibility	Gas, E85, Methanol

Attribute	Detail
Material	Plastic (housing), Machined (exterior finish)
Item Weight	1.7 pounds (for the pack)
Product Dimensions (L x W x H)	4.9 x 8.3 x 1.8 inches (packaging/overall)
Number of Ports	8 (for the 8-pack)
Valve Type	Electromechanical
GTIN (UPC)	00743047800362

8. WHAT'S IN THE BOX

The ACCEL Performance Fuel Injectors 30Lb 8-Pak, Silver (150830) package includes:

- 8 x ACCEL Performance Fuel Injectors (30Lb, Silver, Model 150830)
- Pre-installed fine-mesh fuel strainers
- Pre-installed precision-molded O-rings

9. IMPORTANT SAFETY INFORMATION

CALIFORNIA WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Always wear appropriate personal protective equipment (PPE) such as safety glasses and gloves when working on a vehicle's fuel system. Ensure adequate ventilation. Fuel is highly flammable; keep away from open flames, sparks, and heat sources. Refer to your vehicle's service manual for specific safety procedures.

10. WARRANTY AND SUPPORT

For specific warranty information regarding your ACCEL Performance Fuel Injectors, please refer to the documentation provided with your purchase or visit the official ACCEL website. For technical support or assistance with installation and troubleshooting, it is recommended to contact ACCEL customer service directly or consult with a certified automotive professional.

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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