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Standard Motor Products FJ424

Standard Motor Products FJ424 Fuel Injector

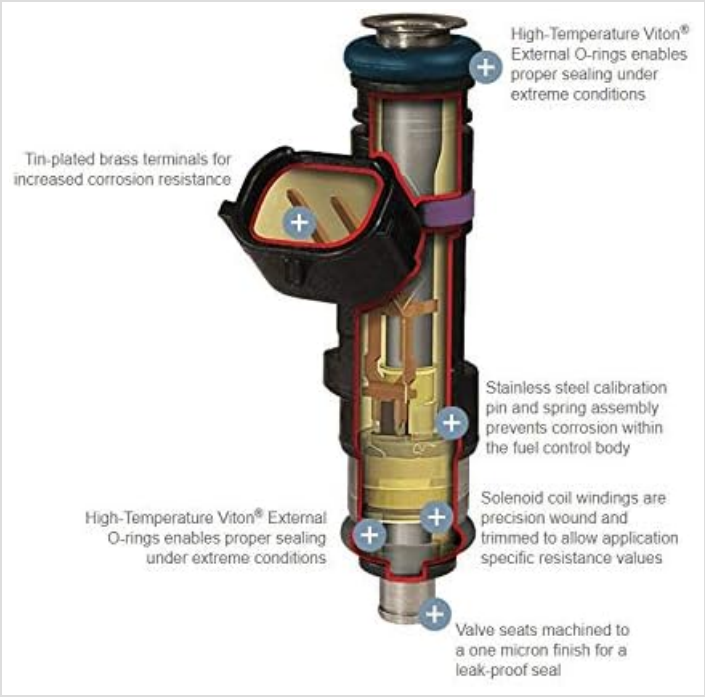
Instruction Manual

1. Product Overview

The Standard Motor Products FJ424 is a high-quality fuel injector designed for specific automotive applications. This component is crucial for delivering precise amounts of fuel into the engine's combustion chambers, ensuring optimal performance and fuel efficiency. Manufactured with durable materials, the FJ424 is built to meet or exceed OEM specifications, providing reliable operation and a long service life.

2. Key Features

- High-Temperature Viton® External O-rings for proper sealing under extreme conditions.
- Tin-plated brass terminals for increased corrosion resistance.
- Stainless steel calibration pin and spring assembly to prevent corrosion within the fuel control body.
- Solenoid coil windings are precision wound and trimmed to allow application specific resistance values.
- Valve seats machined to a one micron finish for a leak-proof seal.
- Compact dimensions: 0.04 inches height, 4.87 inches length, 0.19 inches width.
- Lightweight design: Approximately 0.5 pounds.



An exploded diagram showing the key internal features of a fuel injector, including high-temperature Viton O-rings for sealing, tin-plated brass terminals for corrosion resistance, a stainless steel calibration pin, precision-wound solenoid coil windings, and finely machined valve seats for a leak-proof seal.

3. Compatibility

The Standard Motor Products FJ424 Fuel Injector is compatible with the following vehicle models:

- 1984 - 1982, 1980 Ferrari 308 GTB
- 1982 - 1981 Ferrari 308 GTBi
- 1984 - 1982, 1980 Ferrari 308 GTS
- 1982 - 1981 Ferrari 308 GTSi
- 1989 - 1985 Ferrari 328 GTB
- 1989 - 1985 Ferrari 328 GTS
- 1987 - 1986 Ferrari GTO
- 1985 - 1983 Ferrari Mondial
- 1988 - 1986 Ferrari F

Always verify compatibility with your vehicle's specific make, model, and year before installation.

4. Installation and Setup

Installation of a fuel injector requires specialized tools and knowledge of automotive fuel systems. It is highly recommended that installation be performed by a certified professional mechanic.

General Installation Steps (Professional Installation Recommended):

1. **Safety First:** Disconnect the vehicle's battery and relieve fuel system pressure according to the vehicle manufacturer's service manual. Ensure proper ventilation and have a fire extinguisher nearby.
2. **Access:** Locate the fuel rail and the injectors. This may require removing other engine components.
3. **Disconnect:** Carefully disconnect the electrical connector from the old injector.
4. **Remove Old Injector:** Remove any retaining clips or bolts securing the injector to the fuel rail and intake manifold. Gently pull the old injector out.
5. **Prepare New Injector:** Lubricate the new injector's O-rings with a small amount of clean engine oil or a specialized O-ring

lubricant to prevent damage during installation.

6. **Install New Injector:** Carefully insert the new FJ424 injector into its port, ensuring it seats properly. Secure it with retaining clips or bolts.
7. **Reconnect:** Reconnect the electrical connector to the new injector.
8. **Reassemble:** Reinstall any components removed to gain access.
9. **Test:** Reconnect the battery. Turn the ignition to the 'ON' position (without starting the engine) a few times to prime the fuel system and check for any leaks around the new injector. Start the engine and check for proper operation and absence of leaks.

This image displays the complete Standard Motor Products FJ424 Fuel Injector from a side perspective, showing its cylindrical body, electrical connector, and threaded fuel inlet.

A detailed view of the fuel inlet end of the FJ424 Fuel Injector, highlighting the threaded connection point and the internal conical shape designed for fuel flow.

This image provides a close-up of the fuel injector's nozzle end, where fuel is atomized and sprayed into the engine. The precise opening and internal components are visible.

5. Operation

A fuel injector is an electronically controlled valve that sprays atomized fuel into the engine's intake manifold or directly into the combustion chamber. The Engine Control Unit (ECU) determines the precise timing and duration of the spray based on various sensor inputs, ensuring the correct air-fuel mixture for efficient combustion. The FJ424 operates by receiving an electrical signal from the ECU, which energizes a solenoid, opening a pintle or disc valve to allow fuel to flow through a finely machined nozzle, creating a precise spray pattern.

6. Maintenance

Fuel injectors are generally designed for long-term reliability and do not require routine maintenance beyond ensuring a clean fuel supply. However, regular maintenance of the overall fuel system, such as using quality fuel and periodic fuel system cleaners, can help prevent clogging and ensure optimal performance. It is advisable to follow your vehicle manufacturer's recommended service intervals for fuel filter replacement.

7. Troubleshooting

If you experience symptoms such as engine misfires, rough idling, poor acceleration, decreased fuel efficiency, or a strong fuel odor, a faulty fuel injector may be the cause. Common issues include:

- **Clogged Injector:** Prevents proper fuel delivery, leading to lean conditions and misfires.
- **Leaking Injector:** Can cause rich conditions, fuel odor, and potential engine damage.
- **Electrical Fault:** A damaged coil or connector can prevent the injector from firing.

It is recommended to consult a qualified mechanic for proper diagnosis using specialized diagnostic tools, as these symptoms can also indicate other engine problems.

8. Specifications

Manufacturer	Standard Motor Products
Brand	Standard Motor Products
Item Weight	1.6 ounces
Product Dimensions	2 x 1.44 x 3.38 inches
Item Model Number	FJ424
Manufacturer Part Number	FJ424
ASIN	B000C81GQC
Date First Available	November 11, 2005

9. Warranty and Support

For specific warranty information regarding the Standard Motor Products FJ424 Fuel Injector, please refer to the official Standard Motor Products website or the documentation provided with your purchase. Warranty terms typically cover manufacturing defects. For technical support, installation guidance, or any product-related inquiries, please contact Standard Motor Products customer service or your authorized dealer. Always retain your purchase receipt as proof of purchase for warranty claims.

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