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› Standard Motor Products FJ713 Fuel Injector User Manual

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Model: FJ713

INTRODUCTION

This manual provides essential information regarding the Standard Motor Products FJ713 Fuel Injector. It covers the product's function, general installation considerations, maintenance guidelines, troubleshooting tips, and detailed specifications. This fuel injector is designed for specific vehicle applications to ensure precise fuel delivery to the engine's combustion chambers.

Important Safety Notice: Installation of automotive components, especially those related to the fuel system, can be complex and may require specialized tools and knowledge. It is highly recommended that installation be performed by a qualified automotive technician to ensure proper function and safety.

INSTALLATION CONSIDERATIONS

The FJ713 Fuel Injector is a critical component of a vehicle's fuel injection system. Proper installation is paramount for vehicle performance and safety. The following are general considerations for installation; always refer to your vehicle's specific service manual for detailed, model-specific instructions.

Pre-Installation Steps:

- **Safety First:** Disconnect the vehicle's battery to prevent electrical hazards.
- **Relieve Fuel Pressure:** Before disconnecting any fuel lines, ensure the fuel system pressure is safely relieved according to the vehicle manufacturer's guidelines. This prevents fuel spray and potential fire hazards.
- **Cleanliness:** Ensure the work area and surrounding engine components are clean to prevent contaminants from entering the fuel system or engine.
- **Verify Fitment:** Double-check that the FJ713 injector is the correct part for your specific vehicle make, model, and year. Incorrect fitment can lead to installation difficulties and operational issues, as noted in some user experiences.

General Installation Procedure (Consult Vehicle Manual for Details):

1. **Access Injectors:** Remove any components obstructing access to the fuel rail and injectors (e.g., intake manifold, wiring harnesses).

2. **Disconnect Electrical Connectors:** Carefully disconnect the electrical connectors from the old injectors.
3. **Remove Fuel Rail:** Unbolt and carefully lift the fuel rail, which holds the injectors in place. Some fuel may spill; have rags ready.
4. **Remove Old Injectors:** Pull the old injectors from the fuel rail and intake manifold. Inspect the O-rings and seats for any debris.
5. **Install New Injectors:** Lubricate the new injector's O-rings with clean engine oil or a suitable lubricant to prevent damage during installation. Carefully push the new FJ713 injectors into the fuel rail and then into the intake manifold ports, ensuring they are fully seated.
6. **Reassemble:** Reinstall the fuel rail, ensuring all bolts are torqued to specifications. Reconnect electrical connectors and any other removed components.
7. **Check for Leaks:** Reconnect the battery. Turn the ignition to the "ON" position (without starting the engine) to allow the fuel pump to prime the system. Inspect all connections for fuel leaks before starting the engine.
8. **Test Operation:** Start the engine and listen for any unusual noises or signs of misfire. Check for any diagnostic trouble codes (DTCs).



Figure 1: Side view of the Standard Motor Products FJ713 Fuel Injector. This image displays the main body, electrical connector, and fuel inlet/outlet ends of the injector.



Figure 2: End view of the Standard Motor Products FJ713 Fuel Injector, showing the electrical connector pins and the fuel inlet. This view is important for verifying the correct electrical connection type.

FUNCTION AND SYSTEM INTEGRATION

The Standard Motor Products FJ713 Fuel Injector is an electronically controlled valve that precisely sprays fuel into the engine's intake manifold or directly into the combustion chamber, depending on the engine design. It receives signals from the vehicle's Engine Control Unit (ECU), which determines the exact timing and duration of the fuel spray based on

various engine parameters (e.g., engine speed, load, temperature).
Key functions include:

- **Fuel Atomization:** Breaking fuel into a fine mist for efficient combustion.
- **Precise Fuel Delivery:** Delivering the correct amount of fuel for optimal air-fuel mixture.
- **Emission Control:** Contributing to reduced harmful emissions by ensuring complete combustion.

The injector works in conjunction with the fuel pump, fuel filter, fuel rail, and the ECU to form the complete fuel injection system. Any malfunction in these interconnected components can affect the performance of the fuel injector.

MAINTENANCE

Fuel injectors like the FJ713 are generally considered non-serviceable components in terms of routine user maintenance. Their lifespan is primarily influenced by the quality of fuel and the overall health of the fuel system. To promote the longevity and optimal performance of your fuel injectors, consider the following:

- **Use Quality Fuel:** Always use high-quality, clean fuel from reputable sources. Contaminants or low-grade fuel can lead to deposits and clogging within the injector.
- **Regular Fuel Filter Replacement:** The fuel filter prevents debris from reaching the injectors. Adhere to your vehicle manufacturer's recommended schedule for fuel filter replacement. A clogged fuel filter can reduce fuel pressure and strain the injectors.
- **Fuel System Cleaners:** Periodically using a high-quality fuel system cleaner (added to the fuel tank) can help prevent and remove carbon deposits that may accumulate on injector nozzles. Follow the product's instructions carefully.
- **Professional Inspection:** If you suspect an issue with your fuel system or injectors, have a qualified technician perform a diagnostic check.

TROUBLESHOOTING

A malfunctioning fuel injector can lead to various engine performance issues. If you experience any of the following symptoms, it may indicate a problem with one or more fuel injectors or related fuel system components. Professional diagnosis is recommended.

Symptom	Possible Cause (Injector Related)	Action
Engine Misfire or Rough Idling	Clogged, leaking, or faulty injector preventing proper fuel delivery to a cylinder.	Professional diagnostic scan for misfire codes (P030x). Check injector resistance and spray pattern.
Reduced Fuel Economy	Leaking injector or an injector spraying too much fuel.	Inspect for fuel leaks. Professional diagnosis of fuel trim values.
Check Engine Light (CEL) Illuminated	Various fuel system related codes (e.g., P0171/P0174 - lean condition, P0172/P0175 - rich condition, P020x - injector circuit malfunction).	Retrieve diagnostic trouble codes (DTCs) using an OBD-II scanner.

Symptom	Possible Cause (Injector Related)	Action
Hard Starting	Leaking injector causing fuel pressure drop, or clogged injector not delivering enough fuel during start-up.	Check fuel pressure. Professional inspection of injector spray pattern and leak-down.
Strong Fuel Odor	Fuel leak from injector O-rings or body.	Immediately inspect for visible fuel leaks around the injectors and fuel rail. Address leaks promptly due to fire risk.

Note on Fitment: As highlighted in some user feedback, ensuring the correct part number and fitment for your specific vehicle is crucial. An incorrect part, even if it appears similar, may not install correctly or function as intended. Always cross-reference with your vehicle's specifications.

SPECIFICATIONS

The following specifications are provided for the Standard Motor Products FJ713 Fuel Injector:

Brand: Standard Motor Products

Model: Fuel Injector

Item Model Number: FJ713

Manufacturer: Standard Ignition

Material: Stainless Steel

Product Dimensions (L x W x H): 5.08 x 3.56 x 8.64 cm (2.0 x 1.4 x 3.4 inches)

Item Weight: 22.7 g (0.05 lbs)

Exterior Finish: Painted

Inlet Connection Size: 1.4 inches

Inlet Connection Type: Vehicle Specific

Number of Ports: 2

Outlet Connection Size: 1.4 inches

Specification Met: CE

Valve Type: Ball Valve

OEM Part Numbers (Cross-reference): CM4360, CM4638, CM4663, CM4672, CM4681

WARRANTY INFORMATION

Specific warranty terms for the Standard Motor Products FJ713 Fuel Injector are typically provided by the manufacturer or the retailer at the time of purchase. Please refer to the documentation included with your product or contact the seller/manufacturer directly for detailed warranty coverage, duration, and claim procedures.

It is important to retain your proof of purchase for any warranty claims.

CUSTOMER SUPPORT

For technical assistance, installation queries, or further information regarding the Standard Motor Products FJ713 Fuel Injector, please contact:

- **Your Retailer:** The point of purchase for immediate assistance.
- **Standard Motor Products:** Visit their official website for contact information, technical resources, and product support.

When contacting support, please have your product model number (FJ713) and purchase details readily available.

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