

215 255 260

Generic Fuel Injector Instruction Manual

For SeaDoo GTI, GTX, GTR, GTS, Wake Models 215, 255, 260

Part Number: 420874846

1. PRODUCT OVERVIEW

This manual provides essential information for the installation, maintenance, and troubleshooting of the Generic Fuel Injector set. These injectors are designed as direct replacement parts for specific SeaDoo Personal Watercraft (PWC) models.

Compatibility: This fuel injector set is compatible with SeaDoo GTI, GTX, GTR, GTS, and Wake models with engine specifications 215, 255, and 260. Please verify your vehicle's compatibility before installation.



Figure 1: Set of three Generic fuel injectors. Each injector features a black body, blue top seal, and green bottom seal, designed for precise fuel delivery.

2. SAFETY INFORMATION

Working with fuel systems involves risks. Please observe the following safety precautions:

- Always disconnect the battery before working on the fuel system to prevent accidental engine start or electrical shorts.
- Ensure adequate ventilation in your workspace. Fuel vapors are flammable and hazardous.
- Wear appropriate personal protective equipment (PPE), including safety glasses and chemical-resistant gloves.
- Keep fire extinguishers or other fire suppression equipment readily available.
- Relieve fuel system pressure before disconnecting any fuel lines or components. Refer to your vehicle's service manual for specific procedures.
- Avoid spilling fuel. Clean up any spills immediately using absorbent materials.
- It is highly recommended that installation be performed by a qualified marine mechanic or technician.

3. PACKAGE CONTENTS

Upon opening the package, please verify that all components are present and undamaged:

- 3 x Generic Fuel Injectors (Part No. 420874846)

If any items are missing or damaged, please contact your seller immediately.

4. INSTALLATION GUIDE

This section provides a general guide for replacing fuel injectors. Specific steps may vary depending on your SeaDoo model. Always consult your vehicle's official service manual for detailed instructions.

Required Tools (General):

- Basic hand tools (wrenches, sockets, screwdrivers)
- Fuel line disconnect tools (if required)
- Torque wrench
- New O-rings and seals (often included with new injectors, but verify)
- Clean rags and absorbent material

Installation Steps:

1. **Preparation:** Ensure the engine is cool. Disconnect the battery. Relieve fuel system pressure according to your SeaDoo service manual.
2. **Access:** Locate the fuel rail and injectors. This may require removing engine covers or other components.
3. **Disconnect Electrical Connectors:** Carefully disconnect the electrical connectors from each fuel injector. Avoid pulling on the wires.



Figure 2: Detailed view of the electrical connector on a fuel injector. Ensure proper connection and disconnection to avoid damage.

4. **Remove Fuel Rail:** Unbolt and carefully remove the fuel rail. Some fuel may leak out; have rags ready.
5. **Remove Old Injectors:** Gently pull the old injectors from their seats. Inspect the old O-rings and ensure none are left behind in the engine block or fuel rail.
6. **Install New O-rings:** Lubricate the new O-rings on the new injectors with a small amount of clean engine oil or silicone grease to aid installation and prevent damage.
7. **Install New Injectors:** Carefully push the new injectors into the fuel rail, ensuring they are fully seated. Then, align the fuel rail and injectors with the engine's intake manifold ports and gently push them into place.



Figure 3: Side profile of a Generic fuel injector, showing its overall design and sealing points for proper fitment.

8. **Secure Fuel Rail:** Re-install the fuel rail bolts and tighten them to the manufacturer's specified torque.
9. **Reconnect Electrical Connectors:** Firmly attach the electrical connectors to each new injector until they click into place.
10. **Final Checks:** Reconnect the battery. Turn the ignition to the "ON" position (without starting the engine) for a few seconds to allow the fuel pump to prime the system and build pressure. Check for any fuel leaks around

the injectors and fuel lines. Repeat priming if necessary.

- 11. **Start Engine:** Start the engine and carefully check for any leaks or abnormal operation.
- 12. **Reassemble:** Reinstall any removed engine covers or components.

5. OPERATING PRINCIPLES

Once installed, the fuel injectors function as a critical component of your SeaDoo's fuel delivery system. They are electronically controlled valves that spray a fine mist of fuel into the engine's intake manifold or directly into the combustion chamber. This precise fuel delivery is essential for optimal engine performance, fuel efficiency, and emissions control. The engine's Electronic Control Unit (ECU) determines the exact timing and duration of each injector's opening based on various sensor inputs.

6. MAINTENANCE

Proper maintenance of your fuel system helps ensure the longevity and performance of your fuel injectors:

- **Use Quality Fuel:** Always use high-quality, clean fuel as recommended by your SeaDoo manufacturer. Contaminated fuel can clog injectors.
- **Fuel Filter Replacement:** Regularly replace your fuel filter according to your vehicle's service schedule. A clogged fuel filter can reduce fuel pressure and strain the injectors.
- **Fuel System Cleaners:** Periodically use a reputable fuel system cleaner designed for marine engines to help prevent deposit buildup on injector nozzles. Follow product instructions carefully.
- **Professional Inspection:** Have your fuel system, including injectors, inspected by a qualified technician during routine service intervals.

7. TROUBLESHOOTING

If you experience issues after installing new fuel injectors, consider the following common troubleshooting steps. For complex problems, professional diagnosis is recommended.

Symptom	Possible Cause	Action
Engine Misfire / Rough Idling	<ul style="list-style-type: none">• Loose electrical connector• Damaged O-ring causing vacuum leak• Clogged or faulty injector	<ul style="list-style-type: none">• Check all electrical connections to injectors.• Inspect O-rings for proper seating and damage.• Professional diagnostic scan for injector fault codes.
Fuel Leakage	<ul style="list-style-type: none">• Improperly seated injector• Damaged O-rings• Loose fuel rail bolts	<ul style="list-style-type: none">• Immediately shut off engine.• Re-check injector seating and O-rings.• Verify fuel rail bolt torque.
Poor Engine Performance / Reduced Power	<ul style="list-style-type: none">• Insufficient fuel pressure• Clogged fuel filter• Multiple faulty injectors	<ul style="list-style-type: none">• Check fuel pressure (requires specialized tools).• Inspect/replace fuel filter.• Professional diagnosis.

8. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Product Type	Fuel Injector
Brand	Generic
Model Compatibility	SeaDoo GTI, GTX, GTR, GTS, Wake (215, 255, 260)
Part Number (OEM Cross-reference)	420874846
Material	Steel
Color	Black
Item Weight (per injector, approx.)	~1.18 ounces (3.53 ounces / 3 injectors)
Package Quantity	3 Injectors

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the seller directly. Keep your proof of purchase for any warranty claims.