



Manuals.plus /

› IMS /

› IMS Fuel Tank 3.1 Gallon for Yamaha WR250F (2003-2005) - Instruction Manual

IMS IMS126

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Model: IMS126

Introduction

Setup & Installation

Operation

Maintenance

Troubleshooting

Specifications

Warranty & Support

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your IMS 3.1 Gallon Fuel Tank, designed specifically for Yamaha WR250F models from 2003 to 2005. This fuel tank is engineered to offer increased fuel capacity compared to the stock tank, allowing for extended riding distances. Constructed from durable crosslink polyethylene, it maintains a slim profile while enhancing the motorcycle's functionality. Key features include:

- Increased capacity from stock (3.1 Gallons)
- Crosslink polyethylene construction for durability
- Slim design for rider comfort
- Includes plastic gas cap



Image 1.1: The IMS 3.1 Gallon Natural Fuel Tank, showing its overall shape and integrated gas cap. This tank is designed for Yamaha WR250F models (2003-2005).

2. SETUP & INSTALLATION

Safety Warning: Installation should be performed by a qualified technician. Ensure the motorcycle is cool and stable before beginning. Disconnect the battery and ensure no open flames or sparks are present. Fuel is highly flammable.

2.1 Required Tools

- Socket wrench set
- Screwdriver set
- Pliers
- Torque wrench
- Clean rags
- Fuel-resistant sealant (optional, for fuel line connections)

2.2 Installation Steps

1. **Prepare Motorcycle:** Park the motorcycle on a level surface. Ensure the engine is cool. Turn off the fuel petcock (if applicable) and disconnect the fuel line from the carburetor/fuel injection system.
2. **Drain Fuel:** Carefully drain all fuel from the existing tank into an approved fuel container. Dispose of fuel responsibly.
3. **Remove Stock Tank:**
 - Remove the seat and any shrouds or panels obstructing access to the fuel tank.
 - Disconnect any remaining fuel lines, vent hoses, and electrical connections (e.g., fuel level sensor, if present).
 - Unbolt the stock fuel tank from its mounting points. Carefully lift and remove the tank.
4. **Transfer Components:** Transfer the fuel petcock, fuel cap (if not using the included IMS cap), fuel level sensor, and any rubber grommets or mounting hardware from the stock tank to the new IMS tank. Ensure all seals are clean and properly seated.
5. **Install IMS Tank:**

- Carefully position the IMS fuel tank onto the motorcycle frame. Ensure it aligns with all mounting points.
 - Secure the tank using the original mounting hardware. Do not overtighten bolts; refer to your motorcycle's service manual for torque specifications.
 - Reconnect all fuel lines, vent hoses, and electrical connections. Double-check all connections for security.
6. **Leak Check:** Add a small amount of fuel to the new tank. Inspect all connections for leaks. If leaks are detected, tighten connections or replace seals as necessary.
 7. **Final Assembly:** Reinstall the seat, shrouds, and any other removed components.
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3. OPERATION

3.1 Fueling the Tank

- Ensure the motorcycle is on a stable, level surface.
- Remove the IMS plastic gas cap by turning it counter-clockwise.
- Fill the tank with the appropriate fuel type (Gasoline) as specified by your motorcycle manufacturer. Do not overfill; leave space for fuel expansion.
- Replace the gas cap and turn clockwise until secure. Ensure the cap is fully sealed to prevent fuel leaks and evaporation.

3.2 General Use

The IMS fuel tank is designed for standard motorcycle operation. Due to the increased capacity, you may notice a slight change in the motorcycle's weight distribution when the tank is full. Always be aware of your fuel level and plan your rides accordingly, especially when utilizing the extended range provided by the 3.1-gallon capacity.

4. MAINTENANCE

4.1 Cleaning

- Clean the exterior of the fuel tank with mild soap and water. Avoid harsh chemicals or abrasive cleaners, as these can damage the polyethylene material.
- Rinse thoroughly and dry with a soft cloth.

4.2 Inspection

- Regularly inspect the fuel tank for any signs of cracks, leaks, or damage, especially after impacts or falls.
- Check the fuel lines and connections for wear, cracks, or loose fittings. Replace any damaged components immediately.
- Ensure the gas cap seals properly.

4.3 Storage

If storing the motorcycle for an extended period, it is recommended to drain the fuel from the tank or use a fuel stabilizer to prevent fuel degradation and potential damage to the fuel system.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Fuel Leak at Connections	Loose clamp, damaged fuel line, worn O-ring/seal.	Tighten clamps, inspect and replace fuel lines or seals. Ensure proper installation of petcock/sensor.
Fuel Leak from Gas Cap	Cap not tightened, damaged cap seal.	Ensure cap is fully tightened. Inspect and replace the cap or its seal if damaged.
Difficulty Installing Tank	Misalignment, interference with other components.	Double-check motorcycle model and year compatibility. Ensure all cables and hoses are routed correctly and not pinched.
Fuel Flow Issues	Blocked vent hose, clogged fuel filter (if applicable), faulty petcock.	Check and clear vent hose. Inspect fuel filter and petcock.

If you encounter issues not listed here or are unable to resolve a problem, consult a qualified motorcycle mechanic or contact IMS customer support.

6. SPECIFICATIONS

Feature	Detail
Brand	IMS
Model Number	IMS126
Capacity	3.1 Gallons
Material	Polyethylene (PE)
Exterior Finish	Plastic (Natural)
Fuel Type	Gasoline
Fit Type	Vehicle Specific (Yamaha WR250F 2003-2005)
Manufacturer	IMS
ASIN	B07C3597Y
Date First Available	April 10, 2018

7. WARRANTY & SUPPORT

IMS products are manufactured to high standards. For specific warranty information, please refer to the documentation included with your purchase or visit the official IMS website. Warranty terms typically cover manufacturing defects for a limited period.

For technical support, parts inquiries, or warranty claims, please contact IMS directly through their official

channels. You can often find contact information on their website or by searching for "IMS Powersports" online.

Note: This product is subject to Proposition 65 warning.

For more information about IMS products, visit: [IMS Brand Page on Amazon](#)
