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› LeoVince Handmade ZX Exhaust System Instruction Manual for Benelli 491 GT/SBK/Sport/Racing

## LeoVince ZX S5525

# LeoVince Handmade ZX Exhaust System Instruction Manual

**MODEL: ZX S5525**

**For Benelli 491 GT/SBK/Sport/Racing (Models up to 2003)**

## 1. Introduction

This instruction manual provides essential information for the proper installation, operation, and maintenance of your LeoVince Handmade ZX Exhaust System. Please read this manual thoroughly before beginning any installation or maintenance procedures to ensure safety and optimal performance.

This exhaust system is specifically designed for the following Benelli 491 models (up to 2003, equipped with Minarelli engine):

- Benelli 491 GT 50 AC (air-cooled)
- Benelli 491 RR 50
- Benelli 491 RR réplica 50
- Benelli 491 St 50
- Benelli 491 Sport 50

Ensure your vehicle matches these specifications for correct fitment and operation.

## 2. Safety Information

Always prioritize safety when working on your vehicle. Failure to follow safety guidelines can result in injury or damage to the product or vehicle.

- **Professional Installation Recommended:** If you are not confident in your mechanical abilities, it is highly recommended to have the exhaust system installed by a qualified mechanic.
- **Hot Surfaces:** Exhaust systems become extremely hot during operation. Allow the engine and exhaust to cool

completely before handling.

- **Eye Protection:** Always wear appropriate eye protection when working with tools and vehicle components.
- **Ventilation:** Ensure adequate ventilation if the engine is run indoors during installation or testing.
- **Secure Vehicle:** Always ensure the vehicle is stable and securely supported before working underneath it.
- **Read Instructions:** Carefully read all instructions before beginning installation.

### 3. Package Contents

Before beginning installation, verify that all components are present and undamaged. If any parts are missing or damaged, contact your retailer immediately.

- LeoVince Handmade ZX Expansion Chamber (main pipe)
- Carbon Fiber Silencer
- Mounting Brackets and Hardware (bolts, nuts, washers, springs, gaskets)
- Instruction Manual (this document)



**Figure 1:** The complete LeoVince Handmade ZX exhaust system. It features a metallic expansion chamber designed for optimal performance and a carbon fiber silencer with the 'ZX' logo. The system includes mounting brackets visible at the top.

### 4. Setup and Installation

This section outlines the general steps for installing the LeoVince Handmade ZX Exhaust System. Specific details may vary slightly depending on your exact Benelli 491 model. Refer to your vehicle's service manual for detailed removal procedures of the original exhaust.

#### 1. Preparation:

- Ensure the engine is completely cool.
- Gather necessary tools: socket set, wrenches, spring puller (if applicable), torque wrench, penetrating oil.
- Secure the scooter on a stable stand.

#### 2. Remove Original Exhaust:

- Locate and loosen the exhaust manifold nuts/bolts connecting the exhaust to the cylinder head.
- Remove any mounting bolts or brackets securing the silencer and pipe to the frame.
- Carefully remove the entire original exhaust system. Dispose of it responsibly.

#### 3. Install New Exhaust:

- Install the new exhaust gasket (if provided) onto the cylinder head exhaust port.

- Position the LeoVince Handmade ZX expansion chamber onto the cylinder head studs/bolts. Hand-tighten the nuts/bolts.
- Attach the provided mounting bracket(s) to the frame and to the exhaust pipe/silencer. Do not fully tighten yet.
- Connect the carbon fiber silencer to the expansion chamber using the provided springs.
- Ensure the entire system is aligned correctly and has adequate clearance from other vehicle components.
- Gradually tighten all manifold nuts/bolts to the manufacturer's specified torque (refer to your Benelli service manual).
- Finally, tighten all mounting bracket bolts securely.

#### 4. Final Checks:

- Double-check all fasteners for tightness.
- Ensure there are no obstructions or contact points with moving parts or heat-sensitive components.
- Start the engine and check for exhaust leaks (a slight smell or smoke during the first few minutes is normal as protective coatings burn off).

### 5. Operating Considerations

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After installation, the exhaust system is ready for use. Observe the following points:

- **Initial Run-in:** For the first few rides, avoid prolonged high-RPM operation to allow the exhaust components to settle and any protective coatings to fully cure.
- **Sound Characteristics:** This performance exhaust system may produce a different sound profile compared to the original equipment.
- **Heat:** The exhaust system will become very hot during operation. Exercise caution and avoid contact with hot surfaces.

### 6. Maintenance

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Regular maintenance will prolong the life and performance of your LeoVince Handmade ZX Exhaust System.

- **Periodic Inspection:** Regularly check all mounting bolts, nuts, and springs for tightness. Vibrations can cause fasteners to loosen over time.
- **Cleaning:** Clean the exhaust system with a mild detergent and water. Avoid abrasive cleaners or solvents that could damage the finish or carbon fiber.
- **Silencer Packing:** Over time, the sound-absorbing material (packing) inside the silencer may degrade. If the exhaust sound becomes excessively loud, the silencer packing may need to be replaced. Consult a specialist for this procedure.
- **Damage Check:** Inspect the exhaust pipe and silencer for any signs of cracks, dents, or corrosion. Address any damage promptly to prevent further issues.

### 7. Troubleshooting

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If you encounter issues with your exhaust system, consider the following common troubleshooting steps:

- **Excessive Noise/Rattling:**
  - Check all mounting bolts and springs for tightness.
  - Inspect for exhaust leaks at the manifold or silencer connection.
  - Verify that the exhaust system is not contacting any other part of the vehicle.

- Consider if silencer packing needs replacement (see Maintenance).

- **Performance Issues:**

- Ensure there are no significant exhaust leaks.
- Verify proper carburetor/fuel injection tuning if performance changes are observed after installation (a performance exhaust may require re-jetting or ECU adjustment for optimal results).

If problems persist, consult a qualified mechanic or contact LeoVince support.

## 8. Specifications

|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| <b>Product Model:</b> | LeoVince Handmade ZX S5525                                            |
| <b>Compatibility:</b> | Benelli 491 GT/SBK/Sport/Racing (models up to 2003, Minarelli engine) |
| <b>Manufacturer:</b>  | UNKNOWN (as per product data)                                         |
| <b>ASIN:</b>          | B00DWJOZZC                                                            |

## 9. Warranty and Support

Specific warranty information for this product is not provided in the available data. Please retain your proof of purchase. For warranty claims or technical support, please contact your original retailer or the official LeoVince distributor in your region.

For general inquiries or further assistance, refer to the official LeoVince website or contact their customer service.

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