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## Evotech CBR650R

# EVOTECH Honda CBR650R Frame Crash Protection Sliders - Instruction Manual

Model: Honda CBR650R (Specific to years/models compatible with B07S3X566P)

## 1. INTRODUCTION

This manual provides detailed instructions for the installation and maintenance of your EVOTECH Frame Crash Protection Sliders for the Honda CBR650R. These sliders are designed to offer significant protection to your motorcycle's frame, engine casings, and other critical components in the event of a slide or low-side crash, minimizing potential damage. Please read this manual thoroughly before beginning installation to ensure proper fitment and safe operation.

## 2. SAFETY INFORMATION

**WARNING:** Improper installation can lead to product failure, damage to your motorcycle, or serious injury. If you are unsure about any step, seek assistance from a qualified motorcycle mechanic.

- Always wear appropriate personal protective equipment (PPE) during installation.
- Ensure the motorcycle is stable and securely supported before beginning any work. Use a paddock stand or center stand.
- Do not overtighten fasteners. Refer to torque specifications if available, or use manufacturer's recommended torque for similar components.
- Regularly inspect the sliders and mounting hardware for signs of wear, damage, or loosening.
- These sliders are designed to mitigate damage in a crash; they do not guarantee complete protection from all damage.

## 3. PACKAGE CONTENTS

Verify that all components are present and undamaged before proceeding with installation.

- 2 x EVOTECH Frame Sliders (Left & Right)
- 2 x Mounting Brackets (Left & Right, specific to CBR650R)
- Associated Fasteners (Bolts, washers, nuts as required for mounting)

- Installation Instructions (this manual)



Figure 3.1: EVOTECH Frame Crash Protection Sliders and associated mounting hardware. This image displays the two main slider units, each with its distinct mounting bracket and connecting bolts, laid out on a clean white surface, ready for installation.

## 4. TOOLS REQUIRED

- Metric Hex Key Set (Allen wrenches)
- Metric Socket Set with Ratchet
- Torque Wrench (recommended for precise tightening)
- Thread-locking compound (e.g., Loctite Blue 242 - optional, but recommended for critical fasteners)
- Motorcycle Stand (Paddock stand or center stand)

## 5. SETUP AND INSTALLATION

Follow these steps carefully for proper installation. Refer to your motorcycle's service manual for specific torque values for engine mount bolts if available.

### 1. Prepare the Motorcycle:

- Park the motorcycle on a level, stable surface.
- Secure the motorcycle using a paddock stand or center stand to ensure it is upright and stable.
- Allow the engine to cool down completely before starting work.

### 2. Identify Mounting Points:

- Locate the engine mount bolts on both sides of the motorcycle's frame. These are typically the points where the frame sliders will attach.
- For the Honda CBR650R, the EVOTECH sliders often utilize existing engine mount points, sometimes requiring the removal of fairing panels for access.

### 3. Install Left Side Slider:

- Carefully remove the existing engine mount bolt on the left side of the motorcycle. *It is crucial to only remove one bolt at a time to maintain engine alignment.*
- Align the left EVOTECH mounting bracket with the engine mount point.
- Insert the new, longer bolt supplied with the EVOTECH kit through the mounting bracket and into the engine mount point.
- Hand-tighten the bolt initially.
- Attach the left slider bobbin to the mounting bracket using the provided hardware. Ensure it is securely fastened.
- Torque the main engine mount bolt to the motorcycle manufacturer's specified torque setting. If not available, consult a professional. Apply thread-locking compound if desired.



Figure 5.1: Left side EVOTECH frame slider installed. This image provides a detailed view of the left frame slider securely mounted to the motorcycle's engine block, showcasing the bracket and the slider bobbin in position.

### 4. Install Right Side Slider:

- Repeat the process for the right side of the motorcycle. Remove the existing engine mount bolt on the right side.
- Align the right EVOTECH mounting bracket.
- Insert the new, longer bolt through the bracket and into the engine mount point.
- Hand-tighten the bolt.
- Attach the right slider bobbin to the mounting bracket.
- Torque the main engine mount bolt to the motorcycle manufacturer's specified torque setting.



Figure 5.2: Right side EVOTECH frame slider installed. Similar to the left side, this image shows the right frame slider mounted, highlighting its integration with the motorcycle's frame and engine components.

##### 5. Final Check:

- Double-check all fasteners to ensure they are properly tightened.
- Ensure the sliders are firmly attached and do not wobble.
- Reinstall any fairing panels removed during the process.



Figure 5.3: Honda CBR650R with EVOTECH Frame Sliders installed. This full front view of the motorcycle clearly shows the frame sliders protruding from both sides of the fairing, demonstrating their intended position and appearance once installed.

## 6. OPERATING PRINCIPLE

EVOTECH Frame Crash Protection Sliders are designed to provide a sacrificial point of contact with the ground during a slide or low-speed fall. By extending beyond the motorcycle's fairings and engine, they lift the critical components off the ground, reducing the likelihood of direct impact and abrasion damage to the frame, engine cases, and expensive bodywork. The slider bobbins are typically made from a durable, abrasion-resistant material that can absorb impact and slide effectively, dissipating energy and protecting the motorcycle's structure.

## 7. MAINTENANCE

- **Regular Inspection:** Periodically check the frame sliders and their mounting hardware for any signs of loosening, cracks, or damage. This should be done as part of your regular motorcycle inspection routine.

- **Cleaning:** Clean the sliders with a mild soap and water solution. Avoid harsh chemicals that may degrade the material.
- **Post-Crash Inspection:** If your motorcycle has been involved in a crash, even a minor one, thoroughly inspect the frame sliders and their mounting points. Even if the sliders appear intact, the underlying mounting brackets or frame may have sustained damage. It is highly recommended to replace any slider bobbins or mounting hardware that have made contact with the ground during a crash, as their structural integrity may be compromised.

## 8. TROUBLESHOOTING

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Most issues related to frame sliders are installation-related or post-crash concerns.

- **Sliders Feel Loose:** Re-check all mounting bolts. Ensure they are torqued to the manufacturer's specifications. If the bolts are stripped, they must be replaced.
- **Difficulty Aligning Bolts:** Ensure you are using the correct mounting bracket for each side (left/right). Do not force bolts; misalignment can indicate an incorrect part or improper positioning.
- **Damage After Crash:** If the sliders have made contact with the ground, they have performed their function. Replace any damaged bobbins, bolts, or brackets immediately. Inspect the motorcycle's frame and engine mounts for any deformation or cracks.

## 9. SPECIFICATIONS

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Feature	Detail
Product Name	EVOTECH Frame Crash Protection Sliders
Compatible Motorcycle	Honda CBR650R
Brand	Evotech
ASIN	B07S3X566P
Item Weight	4.27 pounds (approximate, for the set)
Material	High-grade engineering polymer bobbins, CNC machined aluminum brackets

## 10. WARRANTY AND SUPPORT

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Specific warranty information for EVOTECH products is typically provided by the manufacturer or the authorized reseller at the time of purchase. Please refer to your purchase documentation or the official Evotech Performance website for detailed warranty terms and conditions.

For technical support or inquiries regarding this product, please contact your authorized Evotech Performance dealer or visit the official Evotech Performance website for contact information.

*Note: This manual does not constitute a warranty.*

