

Puig 22190J

Puig 22190J Naked Front Winglets Instruction Manual for Kawasaki Z500

Model: 22190J

Brand: Puig

1. PRODUCT OVERVIEW

The Puig 22190J Naked Front Winglets are designed to enhance the aerodynamics and aesthetic appeal of your motorcycle. Manufactured in Barcelona from 3 mm thick high-grade ABS plastic, these winglets offer high impact resistance, durability, and lightness. They are engineered to channel air to the radiator, generate nearly 2 kg of downforce, improve high-speed stability (anti-shimmie), enhance braking control, and prevent front wheel lift. The matte black finish provides an aggressive yet elegant look, visually widening the front of the bike and harmoniously connecting the tank and radiator.

These winglets are TÜV approved and come with ABE certification for legal road use, combining racing technology, function, and style into a must-have accessory for your naked bike.

Compatible Motorcycles:

- KAWASAKI Z500 2024
- KAWASAKI Z500 2025
- KAWASAKI Z500 SE 2024
- KAWASAKI Z500 SE 2025



Image 1.1: Front view of the Puig 22190J Naked Front Winglets installed on a Kawasaki Z500, showcasing the integrated design.



Image 1.2: Three-quarter front view of the Kawasaki Z500 with installed winglets, demonstrating the product's visual impact.

2. SAFETY INFORMATION

Please read and understand all instructions before installation and use. Improper installation or use can lead to serious injury or damage to your motorcycle.

- **Professional Installation Recommended:** If you are unsure about any step of the installation process, it is highly recommended to seek assistance from a qualified motorcycle mechanic.
- **Secure Fastening:** Ensure all mounting hardware is securely tightened according to the instructions. Periodically check fasteners for tightness, especially after the first few rides.
- **Road Legal Compliance:** These winglets are TÜV approved and come with ABE certification for legal road use. Ensure your local regulations are met.
- **Material Handling:** The winglets are made from ABS plastic. Avoid exposing them to extreme heat or harsh chemicals that could degrade the material.
- **Regular Inspection:** Regularly inspect the winglets for any signs of damage, cracks, or loose fittings. Replace damaged parts immediately.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before beginning installation.

- Puig Naked Front Winglets (Left and Right)
- Mounting Hardware (3 mm anti-corrosion coated metal brackets, screws, washers)
- Installation Instructions (Paper and Digital format)

4. SETUP & INSTALLATION

The Puig 22190J Naked Front Winglets are designed for quick and hassle-free installation without requiring drilling or modification of critical motorcycle areas. Follow these steps carefully:

1. **Preparation:** Ensure the motorcycle is stable on a stand. Clean the mounting areas on the motorcycle to remove any dirt or debris.
2. **Identify Mounting Points:** Locate the designated mounting points on your Kawasaki Z500. The winglets attach using specific 3 mm metal brackets.
3. **Attach Brackets:** Secure the metal brackets to the motorcycle's frame or existing attachment points as indicated in the detailed instructions. Do not fully tighten at this stage.
4. **Position Winglets:** Carefully align the Puig Naked Front Winglets with the attached brackets.
5. **Secure Winglets:** Attach the winglets to the brackets using the provided screws and washers. Ensure proper alignment before tightening.
6. **Final Tightening:** Once both winglets are correctly positioned, progressively tighten all screws. Do not overtighten.
7. **Final Check:** Verify that the winglets are securely mounted and do not interfere with any moving parts or controls of the motorcycle.

A detailed video tutorial is available from the manufacturer for visual guidance during installation.



Image 4.1: Side view of the installed winglet, demonstrating its seamless integration.



Image 4.2: Overall view of the Kawasaki Z500 with the winglets, showing the enhanced front profile.

5. OPERATING PRINCIPLES (AERODYNAMICS)

The Puig 22190J Naked Front Winglets are engineered to optimize the aerodynamic performance of your motorcycle through several key mechanisms:

- **Downforce Generation:** The design generates nearly 2 kg of downforce on the front wheel. This increased pressure improves front-end grip and stability, particularly at high speeds.
- **Anti-Wheelie Effect:** By pushing the front wheel down, the winglets help to reduce the tendency for the front wheel to lift during aggressive acceleration, enhancing control.
- **Shimmie Reduction:** The added stability helps to minimize high-speed shimmie (unwanted oscillations of the front wheel), contributing to a safer and more predictable ride.
- **Braking Stability:** Increased front-end downforce improves braking stability, allowing for more controlled and effective deceleration.
- **Cornering Precision:** Enhanced front-end feel and stability translate to improved precision and confidence when cornering.
- **Radiator Airflow:** The winglets are designed to channel air efficiently towards the radiator, aiding in engine cooling.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Puig Naked Front Winglets, follow these simple maintenance guidelines:

- **Cleaning:** Clean the winglets regularly with mild soap and water. Use a soft cloth to avoid scratching the matte finish. Avoid abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the winglets for any signs of damage, such as cracks, chips, or discoloration. Check the mounting points and hardware for any looseness or corrosion.
- **Fastener Check:** After cleaning or before long rides, ensure all mounting screws are still tight. Re-tighten if necessary, but do not overtighten.
- **Environmental Protection:** While durable, prolonged exposure to harsh UV rays or extreme weather conditions can affect the material over time. Store your motorcycle in a shaded area when possible.

7. TROUBLESHOOTING

If you encounter any issues with your Puig Naked Front Winglets, consider the following:

- **Loose Fitting:** If the winglets feel loose, re-check all mounting screws and ensure they are tightened correctly. Refer to the installation instructions.
- **Unusual Noise:** If you hear any rattling or unusual noise coming from the winglets, stop riding and inspect them immediately. This could indicate loose hardware or improper installation.
- **Interference:** Ensure the winglets do not interfere with the steering, suspension, or any other moving parts of the motorcycle. If interference occurs, re-check installation and alignment.
- **Aerodynamic Performance Issues:** If you do not experience the expected aerodynamic benefits, ensure the winglets are installed correctly and are not damaged.

For persistent issues or concerns, contact Puig customer support or consult a professional motorcycle mechanic.

8. SPECIFICATIONS

Feature	Detail
Model Number	22190J
Product Name	Naked Front Winglets
Brand	Puig
Manufacturer	Motoplastic, S.A.
Material	Acrylonitrile Butadiene Styrene (ABS)
Color	Matte Black
Exterior Finish	Matte Schwarz (Matte Black)
Auto Part Position	Front
Installation Type	Einschraubbar (Screw-on)
Automotive Fit Type	Vehicle Specific Fit

Feature	Detail
Item Weight	15.3 ounces (approx. 434 grams)
Package Dimensions	12.95 x 8.27 x 4.57 inches
Certifications	TÜV, ABE License
Compatibility	Kawasaki Z500 (2024, 2025), Z500 SE (2024, 2025)
Additional Compatibility	Compatible with Puig belly pan ref. 20646

9. WARRANTY & SUPPORT

For specific warranty information regarding your Puig 22190J Naked Front Winglets, please refer to the official Puig website or contact their customer support directly. Warranty terms and conditions may vary by region.



Manufacturer: Motoplastic, S.A.

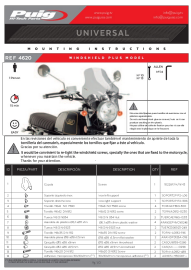
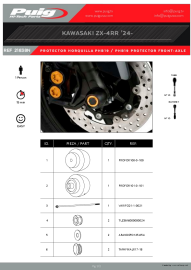

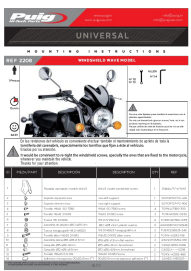
For technical assistance, installation queries, or any other support needs, please reach out to Puig customer service through their official channels.




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Related Documents - 22190J

	<p>Puig Frontal Spoiler Naked Mounting Instructions for Kawasaki Z900 '20-</p> <p>Detailed mounting instructions and parts list for the Puig Frontal Spoiler Naked (Ref 20626) for the Kawasaki Z900 motorcycle (2020-2022 model year). Includes step-by-step guidance and component details.</p>
	<p>Puig Mounting Instructions for Yamaha MT-07 '21- Downforce Naked Frontal Spoilers</p> <p>Detailed mounting instructions and parts list for the Puig Downforce Naked Frontal Spoilers (REF 21129) for the Yamaha MT-07 motorcycle (2021 model). Includes step-by-step assembly guidance and component details.</p>

	<p>Puig Motorcycle Windshield Mounting Instructions - Universal & Kawasaki Z900RS</p> <p>Detailed mounting instructions and parts lists for Puig Universal Windshield Plus (REF 4620) and Puig Kit for Kawasaki Z900RS '18- (REF 10931). Includes step-by-step guides and component information for safe installation.</p>
	<p>Puig PHB19 Front Axle Sliders for Kawasaki ZX-4RR '24- Installation Guide</p> <p>Official mounting instructions and parts list for Puig PHB19 front axle sliders (REF 21838N) designed for the Kawasaki ZX-4RR '24-. Learn how to install these protective parts.</p>
	<p>Puig Crash Pads Installation Guide for Kawasaki Z400 '23</p> <p>Detailed installation instructions and parts list for Puig crash pads (REF 21399N) on the Kawasaki Z400 motorcycle (2023 model). Includes step-by-step guidance and component references for safe and effective mounting.</p>
	<p>Puig Wave Windshield Mounting Instructions - Universal & Kawasaki Z900RS</p> <p>Comprehensive mounting instructions for Puig Wave Windshields. This guide covers universal fitment (REF 2208) with detailed parts lists and assembly steps, as well as specific installation for the Kawasaki Z900RS '18- kit (REF 10931). Includes important warnings regarding thread-lock glue and maintenance tips.</p>

Documents - Puig – 22190J



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