Robbe Scirocco S 3,75 m ARF

Robbe Modellsport Scirocco S 3.75m ARF Glider Instruction Manual

Model: Scirocco S 3.75m ARF | Brand: Robbe

1. Introduction

The Robbe Modellsport Scirocco S is a high-performance F5J glider, representing a refined and slightly more compact version of the successful Scirocco model. With a wingspan of 3.75 meters, it offers excellent maneuverability and dynamic flight characteristics suitable for various conditions, from weak thermals to stronger winds. This manual provides essential information for the assembly, operation, and maintenance of your Scirocco S ARF (Almost Ready to Fly) model.

Figure 1: The Robbe Scirocco S 3.75m ARF glider, showcasing its sleek design on a grassy field.

2. Product Overview and Features

The Scirocco S is engineered with a modern fiberglass/CFK shell structure, ensuring both high performance and durability. Its design allows for excellent recognition of flight conditions, enhancing the pilot's control and experience.

Key Features:

- **Compact 3.75m Wingspan:** Offers improved handling and maneuverability.
- **3-Piece Wings:** Facilitates easier transport and assembly.
- **High-Performance Fiberglass/CFK Construction:** Provides optimal strength and dynamic flight characteristics.
- **4-Flap Design:** Features continuous ailerons and flaps for precise control.
- **Integrated 6-Pole Connector Frames:** Simplifies wing connection (pre-installed in PNP version).
- **Multilock System Groove:** For secure wing attachment.
- **Molded Rod Exits:** For clean and efficient control surface linkages.
- **Versatile Flight Envelope:** Capable of performing well in weak thermals, strong winds, and aerobatics.
- **Hand Launch Capability:** Designed for easy solo hand launching due to strong drive and low basic speed.

Figure 2: Top-down view of the Scirocco S, highlighting its aerodynamic profile and wing design.

3. Safety Instructions

Operating model aircraft requires responsibility and adherence to safety guidelines to prevent injury or damage. Please read and understand these instructions before operating your Scirocco S glider.

- **Pre-Flight Checks:** Always perform thorough pre-flight checks, including control surface movement, battery levels, and structural integrity.
- **Flying Area:** Operate your glider in open areas, away from people, animals, buildings, power lines, and other obstacles. Avoid flying near airports or restricted airspace.
- **Weather Conditions:** Do not fly in adverse weather conditions such as strong winds, rain, or thunderstorms.

- **Battery Safety:** Use only recommended batteries and chargers. Follow all battery charging and handling instructions to prevent fire or explosion.
- **Propeller Safety:** If your ARF model includes an electric motor and propeller, always exercise extreme caution. Keep hands and loose clothing away from the propeller when the motor is powered.
- **Supervision:** If you are a beginner, seek guidance from an experienced model pilot.
- **Local Regulations:** Be aware of and comply with all local laws and regulations regarding model aircraft operation.

4. Assembly and Setup

The Scirocco S ARF version requires the installation of your preferred RC components (motor, servos, receiver, battery). Follow these general steps for assembly:

4.1. Unpacking and Inspection

Carefully unpack all components. Inspect for any shipping damage. If any parts are damaged or missing, contact your dealer immediately.

4.2. Wing Assembly

The Scirocco S features 3-piece wings. Connect the outer wing panels to the central wing section using the provided CFK square pin. Ensure a secure fit. The model is designed with integrated frames for 6-pole connectors to simplify the electrical connection between wing sections.

Figure 3: Close-up of the wing connection point, showing the green electrical connector for signal and power transfer.

Figure 4: View of the built-in frames designed to accommodate 6-pole connectors, ensuring a clean and reliable electrical connection for the wing servos.

The Multilock system groove is integrated for a secure and quick wing attachment mechanism.

Figure 5: Detail of the Multilock separation groove, providing a secure and quick-release mechanism for wing attachment.

4.3. Control Surface Linkages

Install your servos for the ailerons and flaps. The Scirocco S features continuous ailerons and flaps, providing enhanced control. The model includes molded rod exits for precise and efficient linkage setup.

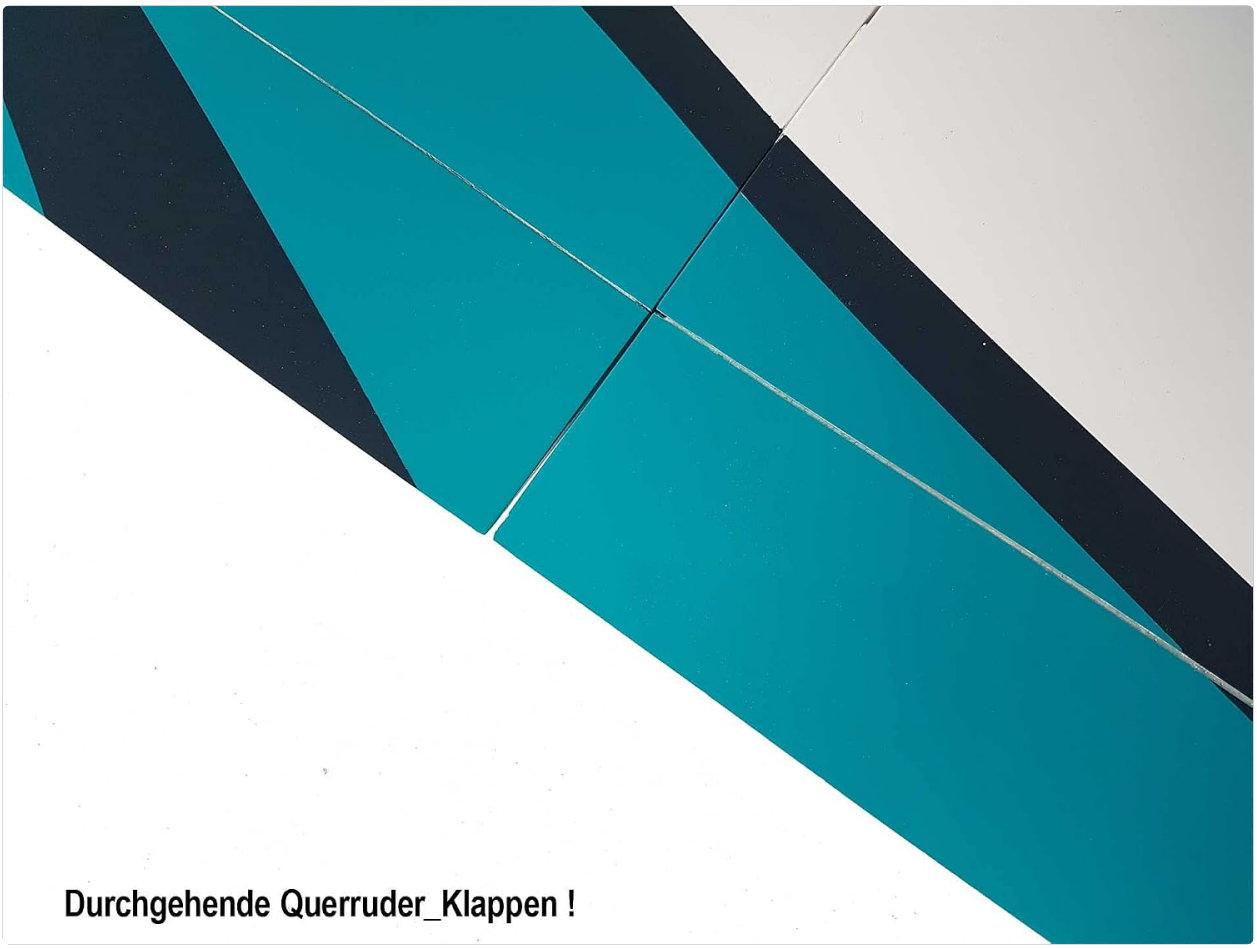

Figure 6: Close-up showing the continuous ailerons and flaps, which contribute to the model's high maneuverability.

Figure 7: Detail of the molded rod exits, designed for clean and precise installation of control linkages.

4.4. Tail Section Assembly

Attach the horizontal and vertical stabilizers. Ensure they are aligned correctly and securely fastened according to the detailed instructions in the full product manual (not provided here).

Figure 8: The tail section of the Scirocco S, showing the horizontal and vertical stabilizers.

4.5. RC Component Installation

Install your chosen motor, ESC, servos, receiver, and battery into the fuselage. Ensure proper weight distribution for correct center of gravity (CG). Refer to the full product manual for recommended CG locations and control throws.

5. Operating Instructions

The Scirocco S is designed for dynamic flight and can be enjoyed in various conditions.

5.1. Pre-Flight Checks

- Verify all control surfaces move freely and in the correct direction.
- Check battery levels for both the model and the transmitter.
- Ensure all connections are secure.
- Confirm the flying area is clear and safe.

5.2. Launching

The Scirocco S is capable of hand launching. With its strong drive (if equipped with a motor) and low basic speed, a single pilot can safely perform the launch. Ensure a clear path and a gentle, firm throw into the wind.

5.3. Flight Characteristics

The Scirocco S excels in both weak thermal conditions and stronger winds. Its dynamic flight characteristics allow for agile maneuvers and even aerobatics. The elegant design aids in visual recognition of the model's

attitude during flight.

5.4. Slope Soaring

Despite its electric design (if applicable), the Scirocco S is also well-suited for slope soaring, offering an exhilarating flight experience in suitable terrain.

6. Maintenance

Regular maintenance will ensure the longevity and safe operation of your Scirocco S glider.

- **Cleaning:** Keep the model clean from dirt, dust, and debris. Use a soft cloth and mild cleaner if necessary.
- **Inspection:** Periodically inspect all structural components for cracks, damage, or wear. Pay close attention to wing joints, control horns, and linkages.
- **Electrical Connections:** Check all electrical connections for corrosion or looseness.
- **Control Surfaces:** Ensure all control surfaces move freely and without excessive play.
- **Storage:** Store the model in a cool, dry place, away from direct sunlight and extreme temperatures.

7. Troubleshooting

If you encounter issues with your Scirocco S, consider the following common troubleshooting steps:

- **Loss of Control:** Check transmitter battery, receiver battery, and all electrical connections. Ensure no interference is present.
- **Poor Flight Performance:** Verify the center of gravity (CG) is correct. Check control surface throws and trim settings. Inspect for any damage to wings or fuselage.
- **Motor Not Running (if applicable):** Check battery connection, ESC connection, and motor wiring. Ensure the ESC is armed correctly.
- **Control Surface Jitter:** Inspect servos for damage or wear. Check linkages for binding.

For more complex issues, consult an experienced modeler or contact Robbe Modellsport support.

8. Specifications

Feature	Detail
Brand	Robbe
Model	Scirocco S
Manufacturer Part Number	2668
Wingspan	3.75 m
Construction Material	Fiberglass / CFK (Carbon Fiber Reinforced Plastic)
Wing Configuration	3-piece
Control Surfaces	Continuous Ailerons / Flaps (4-flap design)
Power Source (ARF)	User-supplied electric motor (if applicable)

Operating Mode	Thrust (if motorized)
Item Dimensions (approx.)	182.7 x 43.4 x 14.4 cm (71.9 x 17.1 x 5.7 inches)
Age Range Description	Boys (General recommendation for hobbyists)

9. Warranty and Support

For warranty information, technical support, or spare parts, please contact Robbe Modellsport directly or refer to their official website. Keep your proof of purchase for any warranty claims.