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## Robbe Modellsport ARCUS E 2.2 ARF(PNP)

# Robbe Modellsport ARCUS E 2.2 ARF(PNP) Glider Instruction Manual

Model: ARCUS E 2.2 ARF(PNP)

## 1. INTRODUCTION

Thank you for choosing the Robbe Modellsport ARCUS E 2.2 ARF(PNP) glider. This model is designed for advanced pilots, offering a blend of robust EPO foam construction with advanced features typically found in larger, more expensive models. The ARCUS E 2.2 features a functional folding motor, servo-controlled landing flaps, and rigid nose landing gear, providing an exceptional flying experience. This manual provides essential information for the safe assembly, operation, and maintenance of your model.



**Figure 1:** The Robbe Modellsport ARCUS E 2.2 ARF(PNP) glider. This image shows the complete model, highlighting its sleek design and overall structure.

## 2. SETUP AND ASSEMBLY

The ARCUS E 2.2 is an Almost Ready to Fly (ARF) and Plug and Play (PNP) model, meaning most components are pre-installed. However, some final assembly and checks are required before flight.

## 2.1 Required Components (Not Included)

- Transmitter (minimum 6-channel recommended)
- Receiver (compatible with your transmitter)
- Flight battery (e.g., 3S LiPo, 2200-3000mAh)
- Battery charger
- Basic tools (screwdrivers, pliers, adhesive if needed)

## 2.2 Assembly Steps

1. **Wing Attachment:** Carefully slide the wing halves onto the main spar and secure them to the fuselage according to the provided diagrams. Ensure all servo connections for ailerons and flaps are correctly plugged into your receiver.
2. **Tail Section:** Attach the horizontal and vertical stabilizers. Verify that the elevator and rudder pushrods are securely connected to their respective control horns and servos.
3. **Receiver Installation:** Install your receiver in the designated compartment within the fuselage. Ensure antennas are positioned for optimal signal reception, away from metal parts or power wires.
4. **Battery Installation:** Secure the flight battery in the battery compartment. Ensure the Center of Gravity (CG) is within the recommended range as specified in the full manual (refer to manufacturer's website for detailed CG information).
5. **Control Surface Checks:** Before connecting the flight battery, perform a range check with your transmitter and receiver. Then, with the battery connected, verify that all control surfaces (ailerons, elevator, rudder, flaps) move freely and in the correct direction relative to your stick inputs. Adjust servo linkages if necessary.
6. **Motor Function Test:** Carefully test the folding motor. Ensure it extends and retracts smoothly and the propeller spins in the correct direction.

**Important:** Always perform a thorough pre-flight check before each flight.

## 3. OPERATING INSTRUCTIONS

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Operating the ARCUS E 2.2 requires familiarity with RC glider flying. Always fly in a safe, open area, away from people, buildings, and power lines.

### 3.1 Pre-Flight Checks

- Ensure all control surfaces move correctly and freely.
- Check battery voltage in both the aircraft and transmitter.
- Verify propeller is securely attached and undamaged.
- Confirm the folding motor mechanism operates smoothly.
- Check for any loose connections or damage to the airframe.

### 3.2 Take-off

With the folding motor extended, apply throttle smoothly. Hand launch the glider into the wind with a firm, level throw. Gradually increase throttle to gain altitude. Once sufficient altitude is reached, retract the motor to transition to gliding flight.

### 3.3 Gliding and Flight

Utilize thermals to extend flight time. The ARCUS E 2.2 is designed for efficient gliding. Use ailerons for roll control, elevator for pitch, and rudder for yaw.

### 3.4 Landing

Approach the landing area into the wind. Deploy the landing flaps to increase drag and reduce airspeed for a controlled descent. Gradually reduce throttle (if motor is extended) and gently flare the glider just above the ground for a smooth touchdown on the rigid nose landing gear.

## 4. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your ARCUS E 2.2.

- **Cleaning:** Wipe down the airframe with a soft, damp cloth after each flight to remove dirt and debris. Avoid harsh chemicals.
- **Inspection:** Regularly inspect the EPO foam for cracks or damage. Repair minor damage with foam-safe adhesive. Check all control linkages, hinges, and servo connections for wear or looseness.
- **Motor and Propeller:** Ensure the folding motor mechanism is clean and free of obstructions. Check the propeller for nicks or cracks; replace if damaged.
- **Battery Care:** Follow manufacturer guidelines for LiPo battery charging, discharging, and storage. Never leave charging batteries unattended.
- **Storage:** Store the glider in a cool, dry place, away from direct sunlight and extreme temperatures.

## 5. TROUBLESHOOTING

| Problem                                              | Possible Cause                                                                 | Solution                                                                                                  |
|------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Model does not respond to controls.                  | Low transmitter/receiver battery, loose connections, binding issue.            | Check all battery levels. Ensure receiver is properly bound to transmitter. Verify all servo connections. |
| Motor does not spin or folding mechanism jams.       | Motor wire disconnected, ESC issue, debris in mechanism, damaged propeller.    | Check motor and ESC connections. Clear any debris. Inspect propeller for damage.                          |
| Glider flies erratically or is difficult to control. | Incorrect Center of Gravity (CG), control surfaces reversed, damaged airframe. | Verify CG is within recommended range. Check control surface directions. Inspect for damage.              |
| Landing flaps not deploying.                         | Servo connection loose, servo damaged, transmitter setting incorrect.          | Check servo connections. Test servo functionality. Verify transmitter mix/switch settings for flaps.      |

## 6. SPECIFICATIONS

| Feature                     | Detail                                |
|-----------------------------|---------------------------------------|
| Brand                       | Robbe Modellsport                     |
| Model                       | ARCUS E 2.2 ARF(PNP)                  |
| Manufacturer Item Code      | 2568                                  |
| ASIN                        | B09DWPBQ5P                            |
| Material Type               | Wood, Foam (EPO)                      |
| Item Dimensions (L x W x H) | 117 x 21 x 17.5 cm                    |
| Toy Vehicle Shape           | Airplane (Glider)                     |
| Theme                       | Sport                                 |
| Batteries Included?         | No                                    |
| Assembly Required?          | No (ARF/PNP implies minimal assembly) |

## 7. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the official Robbe Modellsport website or contact your authorized dealer. Keep your proof of purchase for any warranty claims.

**Disclaimer:** *Robbe Modellsport is not responsible for damage and/or injuries caused by improper use, assembly, or operation of this model.*

