

**SebArt** *professional line*

**MB339 XS 1.9m ARF**

***EDF or P60-130 turbine***

## ASSEMBLY MANUAL

The all new MB399 XS 1.9m ARF was designed by Italy aerobatic pilot Sebastiano Silvestri. This semi scale ARF jet-model design is based real aircraft design and modified adding the ultimate aerodynamically ideas of the modernst pattern models and using the 20 years experience in flying jets of Seba.... the result is surprising!

This innovative design combined with the lightweight structure, the fiberglass fuselage and all wood airframe wings and stabs, give the MB339 XS 1.9m ARF an impressive precision and smoothness at any airspeed and flight condition. Thanks of his low wingload, with powerfull setup EDF or turbine powered, it can be a fantastic aerobatic jet-trainer... let you surprise from your new MB339 XS ARF !

***.....the only aerobatic-fun limit is your fantasy!***

### ***Specifications:***

Wing span: .....1900 mm

Length:..... 1940 mm

Wing area:..... 60 sq. dm

Radio:..... 7+ CH. with 7 MG mini servos + 2 standard servo for Flaps

***Weight with recommended power set up:***

**EDF 120mm:**

Estimated weight RTF (with 1800-2S for RX + lipo pack 5800-12S): 9.500g

**Turbine P130:**

Weight empty RTF (with 1800-2S RX batt. and turbine batt. 2400-3S): 8.500g

***Note:***

For turbine installation the tank and the thrust tube are optional to order.

***Radio equipment recommended:***

- Minimum 6-channel radio system (better 9ch)
- 7 mini MG, digital servo (35g.) for:  
elevators, ailerons, rudder, front door and wheel steering
- 2 standard MG, digital servo (50g.) for: flaps
- Power Box Mercury SRS with GPS
- 2 lipo pack 1800-2S for RX

***Recommended Li-Po battery pack for best performance with EDF:***

- 2 lipo (6S+6S) pack 5000-6S or 5800-6S High C-rate

***Additional required tools:***

- Drill
- Drill bits: 1,5mm
- Phillips screwdriver
- Hobby knife
- Sanding paper
- Masking tape
- Soldering iron

***Additional required adhesives:***

- thin CA
- medium CA
- epoxy 5minutes
- epoxy 20 minutes
- silicon

## **Warning**

**This RC aircraft is not a toy!**

**If misused, it can cause serious bodily harm and damage to property. Fly only in open areas, preferably in official flying sites, following all instructions included with your radio and motor.**

## **Before starting assembly**

Before starting the assembly, remove each part from its bag and protection for a prior inspection. Closely inspect the fuselage, wing panels, rudder, and stabilizer for damage. If you find any damage or missing parts, contact the place of purchase.

If you find any wrinkles in the covering, use a heat gun or covering iron to remove them. Use caution while working around areas where the covering material overlap to prevent separating the covers.

## **Warranty information**

SebArt guarantees this kit to be free from defects in both material and workmanship at the date of purchase.

This warranty does not cover any parts damage by use or modification, and in no case shall SebArt's liability exceed the original cost of the purchased kit.

Further, SebArt reserve the right to change or modify this warranty without notice. In that SebArt has no control over the final assembly or material used for the final assembly, no liability shall be assumed or accepted for any damage of the final user-assembled product. By the act of using the product, the user accepts all resulting liability.

**If the buyer is not prepared to accept the liability associated with the use of this product, the buyer is advised to return this kit immediately in new and unused condition to the place of purchase.**

## **RADIO SET UP**

For a more realistic jet flying, more safe, stable and easy in the wind, we recommend to install, especially for the turbine application, the Power Box Mercury SRS with GPS.

We suggest to use the Power Box internal sequencer for adjust the door servo and timing. We suggest to use a separate channel for the steering servo, to mix ON with gear down only.

### ***Flaps:***

We recommend to use flaps down for starts and landings to make them shorter and easier.

- ✧ Activate the FLAP function in your radio.
- ✧ For start use approx. 20° flaps down and mix 12% elevator down
- ✧ For landing use approx. 50° full flap down and mix 18% elevator down

### ***Control throws:***

- **For the AILERON** we recommend the following throws:

*Use approx. 10% aileron differential* (more up) for normal flight.

|                  |                  |           |
|------------------|------------------|-----------|
| High rate:       | 30° left & right |           |
| Normal flight:   | D/R: 80%         | Expo: 10% |
| Snap, spin:      | D/R: 100%        | Expo: 25% |
| Start & landing: | D/R: 100%        | Expo: 25% |

- **For the ELEVATOR** we recommend the following throws:

|                  |               |           |
|------------------|---------------|-----------|
| High rate:       | 35° up & down |           |
| Normal flight:   | D/R: 40%      | Expo: 35% |
| Snap, spin:      | D/R: 100%     | Expo: 80% |
| Start & landing: | D/R: 100%     | Expo: 80% |

- **For the RUDDER** we recommend the following throws:

|                  |                  |           |
|------------------|------------------|-----------|
| High rate:       | 35° left & right |           |
| Normal flight:   | D/R: 80%         | Expo: 15% |
| Snap, spin:      | D/R: 100%        | Expo: 30% |
| Start & landing: | D/R: 100%        | Expo: 30% |

Note: the Expo is (+) for JR systems, and (−) for Futaba systems.

### ***Mixing:***

We recommend the following mix (if you have a programmable computer radio):

#### **➤ Rudder →Elevator DOWN**

full rudder to the right, the elevator have to go down (negative) approx. 3%

full rudder to the left, the elevator have to go down (negative) approx. 3%

➤ **Rudder →Ailerons**

full rudder to the right, the ailerons have to go left approx. 6%

full rudder to the left, the ailerons have to go right approx. 6%

**Recommended Center of Gravity**

The recommended CG is **165mm** behind the leading edge of wing.



**CENTER OF GRAVITY**

**NOTE:** *Turbine version* may need  
250-300g of lead in the nose  
to glue with 5 min. epoxy



## *Pre-flight*

**Never attempt to make full throttle dives!** This model have to be flown like a full-scale airplane. If the airframe goes too fast, such as in a high throttle dive, it may fail. Throttle management is absolutely necessary.

## *Range test your radio*

- ✓ Before fly, be sure to range check your radio as manufacturer's instruction manual of you radio-system recommend.
- ✓ Double-check all controls (aileron, flaps, elevator, rudder and throttle) move in the correct direction.
- ✓ Be sure that your battery pack is fully charged, as per the instructions included with your batteries and that your radio is fully charged as per its instructions.

***Finally... have nice flights!***

**ESSE TRADE S.r.l.**

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