SebArt *professional line*

Mini MB339 1,44m ARF

90mm EDF-6S or P20-K30 turbine

ASSEMBLY MANUAL

The all new MB339 Jet ARF was designed by Italy aerobatic pilot Sebastiano Silvestri. This sport ARF jet-model design is based real aircraft design and modifided adding the ultimate aerodynamically ideas of the modernst pattern models and using the 15 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 Mini MB339 Jet ARF an impressive precision and smoothness at any airspeed and flight condition. Thanks of his low wingload and the powerfull 90mm 12 blades EDF-6S or the P20-K30 turbine, it can be a fantastic aerobatic jet-trainer… let you surprise from your new MB 339 Jet ARF !

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

Specifications:

Wing span: ……..1380 mm
Length:…… 1440 mm
Wing area:…….. 33 sq. dm
Radio:….. 6+ ch. + 7 MG sub-micro servos
(3 servos for front doors and steering are included and factory installed)

Recommended power set up:

EDF-6S:
Weight (less battery): 2.990g
Weight RTF (with 5800-6S): 3.830g
90mm 12 blades aluminum EDF unit, 1750 Kw motor, 138A ESC with 8A bec 6V (SEBART item # 140-11 set)

P20 Turbine:
Weight (empty, less RX and Turbine battery): 3.230g
Recommended set up RTF:

- 2 x 1800-2S lipo for RX and turbine
- For RX, Power Box DIGISWICH or SENSOR with 5.9v regulator
- option conversion turbine set (SEBART item # 140-16), include tank 650cc, trust tube and adapter plywood plates and screws.
- Add 150/160g lead in the nose, glued with 5-minute epoxy

Required radio system:

- Minimum 6-channel radio system (better 9ch)
- 7 micro servos 17g. for elevators, ailerons, flaps and rudder
- 3 servos 12g. for doors and steering are factory installed
- full extension set are included in the optional servo set (item # A140-12 set)

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

- 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
- silicon

Warning

This RC aircraft is not a toy!
If misused, it can cause serius 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 garantees 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 fying, more stable and easy in the wind, we recommend to install the ***SebArt 3 axis gyro system*** stabilizer for EDF installation or in case of use the P20 turbine is necessary the installation of the ***Power Box iGyro RS*** or ***iGyro 3e*** or ***iGyro 1e***

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 5% elevator down
- ✧ For landing use approx. 50° full flap down and mix 10% 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: 60%	Expo: 10%
Snap, spin:		D/R: 100%	Expo: 30%
Start & landing:		D/R: 80%	Expo: 20%

 For the ELEVATOR we recommend the following throws:

High rate:	35° up & down		
Normal flight:		D/R: 40%	Expo: 50%
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: 90%	Expo: 20%
Snap, spin:		D/R: 100%	Expo: 25%
Start & landing:		D/R: 100%	Expo: 25%

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 UP***

full rudder to the right, the elevator have to go UP (positive) approx. 2%
full rudder to the left, the elevator have to go UP (positive) approx. 2%

- ***Rudder →Ailerons***

full rudder to the right, the ailerons have to go left approx. 4%
full rudder to the left, the ailerons have to go right approx. 4%

Recommended Center of Gravity

The recommended CG is **11-12cm** behind the leading edge of wing.

EDF version: shift the 6S lipo battery to reach the correct balance.
Turbine version: add 150/160g lead in the nose, glued with 5-minute 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 motor 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!

SEBART International S.r.l.
Via L. Tabellione, 1
47891 Rovereta - Repubblica di San Marino (**RSM**)
www.sebart.it