

SebArt professional line

PrometheuS 50E ARF

ASSEMBLY MANUAL

The new PrometheuS 50E ARF was designed by the F3A aerobatic pilot Sebastiano Silvestri and it's the replica of his 2 meter size F3A competition airplane.

This professional ARF kit is the result of Sebastiano's 25 years experience in F3A world and his research in best F3A performances. This innovative design combined with the extremely lightweight structure all wood airframe, give the PrometheuS 50E ARF an impressive precision and smoothness at any airspeed and flight condition.

The PrometheuS 50E ARF will be your pattern dream plane!

.....the only limit is your fantasy!

Specifications:

Wing Span:.....155 cm

Length:.....168 cm

Wing Area:.....63,5 dm²

Weight:.....3.700g. RTF less battery

Radio: 8 Channels, servo set: 4 micro x AILE + 2 mini x ELE+ 1 stand. x RUDD

Recommended power set up:

Motor:..... Hacker A50-16S

ESC:.....Hacker Jeti Master Spin 100A SB

Propeller:APC 16x12E

Battery:5000-6S or 5800-6S

Required radio, motor and battery

Radio equipment:

- Minimum 8channels radio system
- 4 micro x AILE + 2 mini x ELE+ 1 stand. x RUDD
- 2 servo extension 1000mm for elevator servos
- 8 servo extension 200mm for aileron servos
- 1 extension 500mm for rudder servo

Recommended electric motor for best performance:

- Hacker A50-16S + ESC 100A SB + APC 16x12E

Recommended Li-Po battery pack for best performance:

- 5000mAh 6S or 5800mAh 6S

Additional required item, tools and adhesives

Tools:

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

Adhesives:

- thin CA
- medium CA

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.

Control throws

Please, follow the recommended linkage setups:

For the **AILERONS** we recommend the following throws:

High rate:	40° left & right	
Normal flight:	D/R: 30%	Expo: 20%
Snap:	D/R: 100%	Expo: 80%
Spin & 3D:	D/R: 100%	Expo: 80%

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

High rate:	40° up & down	
Normal flight:	D/R: 30%	Expo: 30%
Snap:	D/R: 40%	Expo: 40%
Spin & 3D:	D/R: 100%	Expo: 90%

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

High rate:	40° left & right	
Normal flight:	D/R: 40%	Expo: 60%
Snap:	D/R: 50%	Expo: 70%
Spin & 3D:	D/R: 100%	Expo: 90%

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

Mixing

For best performance, we recommend a linear-mix*:

Rudder → Elevator UP

When you give full rudder to the right or left side, the elevator have to go up (positive) approx. 1-2%

* if you have a programmable computer radio.

Recommended Center of Gravity

The recommended CG is ***130mm*** behind the leading edge of the TOP wing against the fuselage.

- 120mm is good for windy condition***
- 140mm is good for no wind condition***

You can use the battery pack, moving it forward or backward, to achieve the correct balance.

Pre-flight

Never attempt to make full throttle dives!

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, 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!

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