

# **SebArt** *professional line*

## **SF260TP S 50E ARF scale**

### ASSEMBLY MANUAL

#### *The real plane*

The SIAI-Marchetti SF260 is an Italian light aircraft marketed as an aerobatics and military trainer. It was designed by Stelio Frati, originally for Aviamilano, which flew the first prototype of it on July 15, 1964. Actual production was undertaken when SIAI Marchetti purchased the design soon thereafter and continued with this firm until the company was bought by Aermacchi in 1997. The military versions are popular with smaller air forces, which can also arm it for use in the close-support role. The design employs a low-mounted cantilever wing and retractable tricycle undercarriage, and is often praised for its sleek lines and sporty appearance. The pilot and up to two passengers are accommodated under a broad, extensively glazed canopy. The structure is approved for acrobatics. SF260TP version, first flown in 1980, was using an Allison 250-B17D turboprop.

#### *General characteristics:*

*Crew: One pilot + two passengers*

*Length: 7.1 m (23 ft 0 in)*

*Wingspan: 8.35 m (26 ft 11.75 in)*

*Wing area: 10.1 m<sup>2</sup> (109 ft<sup>2</sup>)*

*Empty weight: 765 kg (1,488 lb)*

*Powerplant: 1 × Allison 250-B17D turboprop*

#### *Performance:*

*Maximum speed: 441 km/h (236 knots, 276 mph)*

*Range: 2,050 km (1,107 NM, 1,274 mi)*

*Service ceiling: 5,790 m (19,000 ft)*

#### *Armament:*

*Two under-wing hard points, each can carry 300 kg (661 lb)*

## ***The model***

The ***SIAI-Marchetti SF260TP S 50E ARF scale***, was designed by the 15 times Italian Champion Sebastiano Silvestri, vice-European Champion and 2 time F.A.I World Cup winner F3A.

This professional ARF kit is the result of Sebastiano's long research, experience in F3A and his passion for scale planes. This combined with an extremely light weight structure and with many small aerodynamical tricks give the ***SF260TP S 50E*** an impressive precision and easy control at any airspeed and flight condition.

The ***SF260TP S 50E*** can do it all... it can start and land very easy on grass surface and with the factory installed electric retractable landing gear, light system, flaps, looks very scale on ground and in the air.

The ***SF260TP S 50E*** is ready for any pattern maneuvers as for unbelievable easy rolls, knife-edge pass, loops, spins, stall turn... and almost anything else you can dream up from a scale plane are waiting you!

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

### ***Specifications:***

Wing Span:.....168 cm  
Length:.....167 cm  
Wing Area:.....51,6 dm<sup>2</sup>  
Weight:.....3.800g. RTF less battery  
Radio:.....6-7 Channel, 4 standard servo

### ***Recommended power set up:***

Motor:..... Hacker A50-16S  
ESC:.....Hacker Master Basic 70 SB  
Propeller: .....APC 17x8E

Battery: .....4500-6S or 5000-6S

**Required radio, motor and battery**

Radio equipment:

- Minimum 6-7channel radio system
- 4 standard servos for ailerons, elevator and rudder (JR DS9511)
- 2 servo extension 400mm for elevator and rudder servos
- 2 servo extension 200mm for aileron servos

Recommended electric motor for best performance:

- Hacker A50-16S + X70 SBec-Pro controller + APC 17x8E

or

- Hacker A50-16S + MASTER BASIC 90 OPTO controller + APC 17x10E\*\*

Recommended Li-Po battery pack for best performance:

- 4500mAh 6S or 5000mAh 6S

\*\* NOTE: this option need an extra 2S lipo battery of 900mha and a volt regulator switch for the receiver (with light system connected to receiver)

**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.**

## **Radio set up**

## **Light system**

The factory provided light system is ready to use, just assemble it as per the photo-instructions and plug the lead in a free port of the receiver and it will work as pre-programmed.

### ***Electric landing gear and Steering wheel servo***

The factory assembled electric retractable landing gears and doors are ready for use:

- Connect the all 3 landing gear
- Let gears work with channel 5-GEAR on your favorite switch on your radio
- Use a standard setting Travel Adjust on gear channel (+100% to -100%)
- Connect the steering wheel servo lead with an “Y” with rudder servo, or (better) use an extra channel just for the steering wheel function linear mixed with rudder, that will activate only with landing gear out.

### ***Flaperon***

We recommend this function to do your starts and landings shorter and easier.

- Activate the FLAPPERON function in your radio
- Use two separate channels to let work the two aileron servos, as per your radio’s instruction manual
- Use flaps 60% down, both ailerons 20mm down
- Combine with flaps down an aileron differential of 60% (more up).

### ***Control throws***

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

High rate: 35° UP, 30° DOWN left & right

*NOTE: Use aileron differential if you have a programmable radio.*

Normal flight: D/R: 60% Expo: 20%

aerobatics: D/R: 100% Expo: 40%

Start & landing **with flaperon**: D/R: 100% Expo: 0%

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

High rate: 30° up & down

Normal flight: D/R: 50% Expo: 20%

Aerobatics: D/R: 100% Expo: 40%

Start & landing: D/R: 100% Expo: 40%

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

High rate: 30° left & right

Normal flight: D/R: 80% Expo: 20%

Aerobatics: 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 UP***

full rudder to the right, the elevator have to go up (positive) approx. 6%

full rudder to the left, the elevator have to go up (positive) approx. 6%

### ***Recommended Center of Gravity***

The recommended CG is ***110mm*** behind the leading edge of wing.

### ***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, 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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