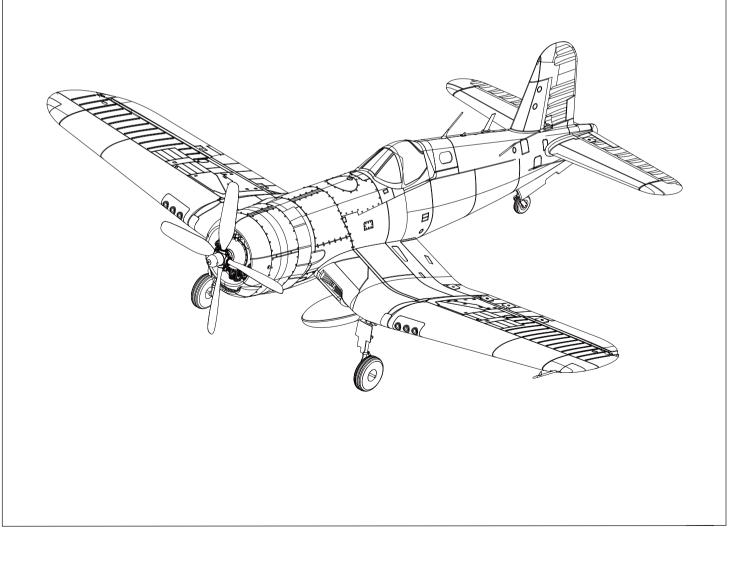


1100mm F4U-4 V2 Operating Manual



Warning: This manual contains important information that will help you maintain and operate your model aircraft in a reliable and safe manner. Please read the instructions and warnings carefully prior to assembly, setup or use.

As this model aircraft is a sophisticated hobby product, it must be flown with safety and common sense in mind, failure in doing so may result in injury or property damage. This product is not intended for use by children without direct adult supervision.

Safety precautions and warnings

As the user, you are solely responsible for the safe operation and maintenance of this product. Follow the directions and warnings listed in this manual, as well as that of supporting equipment (chargers, batteries etc.) and always use common sense.

This is not a toy. Not for children under 14 years of age.

- ★Always operate your model in an open area away from buildings, cars, traffic or people. Never operate near peopleespecially children who can wander unpredictably. Never operate in populated areas for any reason, where injury or damage can occur.
- ★Always keep a safe distance in all directions around your model to avoid collisions or injury. This model is controlled by a radio signal subject to interference from many sources outside your control. Interference can cause momentary loss of control.
- *Never catch the aircraft while it is in flight, the structure of the fuselage was not designed and protected for this purpose.
- *Never operate your model in bad weather, including in excessively windy or precipitating conditions.
- ★Never operate your model with low transmitter batteries.
- ★Keep your throttle quadrant in its lowest position prior and after every flight. Use the throttle cut function if able.
- ★Always use fully charged batteries and move batteries before disassembly.
- ★Avoid water exposure to all equipment not specifically designed and protected for this purpose.
- ★Avoid cleaning this product with chemicals.
- ★Never lick or place any part of your model in your mouth as it could cause serious injury or even death.
- ★Keep all chemicals, small parts and anything electrical out of the reach of children.

Introduction

The F4U-4 is the last of the legendary Corsairs to serve in WWII. Delivered to the United States Navy in early 1945, the F4U-4 is powered by a Pratt and Whitney R2800-18W supercharged Twin Wasp engine- pushing 2100 horsepower. Retaining the six 12.7mm guns and load carrying capabilities of the F4U-1D, the F4U-4 achieved an unbelievable 11:1 kill ratio during its service life.

Arrows Hobby is proud to announce a faithful recreation of the F4U-4 in 1100mm wingspan form- complete with a realistic 4-bladed propeller, removable auxiliary fuel tanks, tail-hook, functional flaps, retractable landing gear and LED light kit. Power comes from a 3536-850 KV motor with a 40A ESC, giving swift ample power when needed.

Features:

- Dependable and proven power system
- Realistic scale details
- Simple airframe structure
- Easy to assemble
- · Environmentally friendly water-based paint

Table of contents

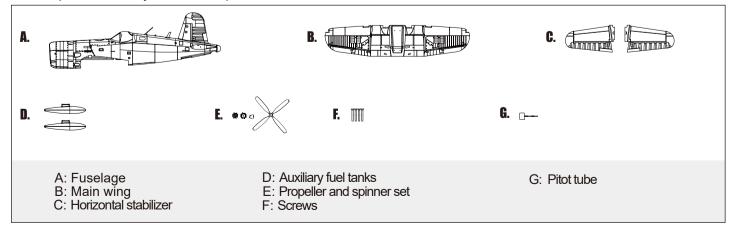
Introduction	3
Specifications	-
Kit contents	
Model assembly	
Battery installation	
Receiver diagram	-
Preflight check	•
Clevis installation	7
Control horn and servo arm settings	, 8
Center of gravity(CG)	
Before flying the model	8
Flight tips	
Trouble shooting	
Spare parts list content	

Specifications

Wingspan	1100mm(43.3in)
Overall length	880mm(34.6in)
Flying weight	~ 1260g
Motor size	3536-KV850
Wing load	58.6g/dm² (0.13oz/in²)
Wing area	21.5dm² (333sq.in)
ESC	40A
Servo	9g Servo x 6
Recommended battery	11.1V 2200mAh 25C

Kit contents

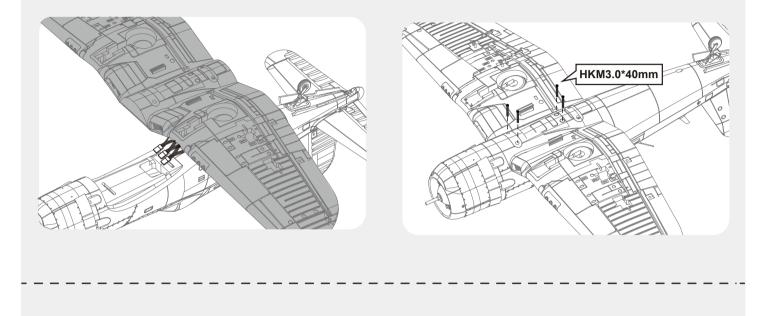
Before assembly, please inspect the contents of the kit. The photo below details the contents of the kit with labels. If any parts are missing or defective, please identify the name or part number (refer to the spare parts list near the end of the manual) then contact your local shop.



Wing installation

1.Insert all leads on the wing into the fuselage via the fuselage passthrough. Attach the wing onto the fuselage and ensure that the wires do not interfere with any of the servos.

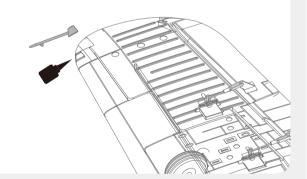
2.Secure the wing to the fuselage with included screws as shown. Do not over tighten the screws.



Pitot tube installation

1.Carefully apply foam safe CA to the base of the shown pocket and place the pitot tube into the pocket as shown.





Model assembly -

Auxiliary fuel tank installation

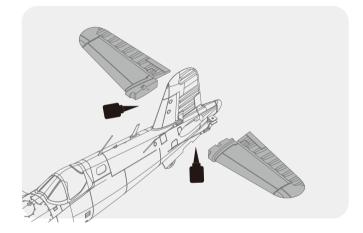
1. Slide the auxiliary fuel tanks into the guide rails on the wing structure.

2. Carefully apply foam-safe CA to the horizontal stabilizer pass-through, then insert the two horizontal stabilizer halves into their slots.



1.Carefully apply foam safe CA to the shown pocket and place the two pieces of horizontal stabilizer into the pocket as shown.

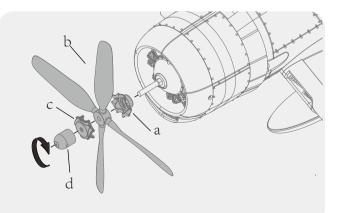




Propeller and spinner installation

1. Assemble the propeller and spinner as shown .

Note:The motor should rotate clockwise when viewing the plane from the rear.



->>

«—— Battery installation

1. Remove the battery hatch.

2. Remove the hook and loop tape from the fuselage. Apply the looped surface to the battery.

3. Install the battery into the fuselage- securing it with the preinstalled battery straps.

Note: The weight of each battery may vary due to different manufacturing techniques. Move the battery fore or aft to achieve the optimal center of gravity.

Receiver diagram

The cables from the servo connector board should be connected to your receiver in the order shown. Note that the LEDs can be powered by any spare channel on the receiver. Tuck the wire leads into the recessed cavity towards the rear of the battery hatch.

		Receiver
Aileron	1	Channel-1 — Aile
Elevator	2	Channel-2
Throttle	3	— Elev Channel-3
Rudder	4	— Thro Channel-4
Gear	5	— Rudd Channel-5
Spare	6	— Gear Spare
		Channel

«—— Preflight check

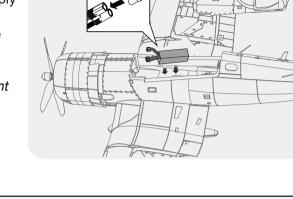
Important ESC and model information

1. The ESC included with the model has a safe start. If the motor battery is connected to the ESC and the throttle stick is not in the low throttle or off position, the motor will not start until the throttle stick is moved to the low throttle or off position. Once the throttle stick is moved to the low throttle or off position, the motor will emit a series of beeps. Several beeps with the same tune means the ESC has detected the cells of the battery. The count of the beeps equals the cells of the battery. The motor is now armed and will start when the throttle is moved.

2. The motor and ESC come pre-connected and the motor rotation should be correct. If for any reason the motor is rotating in the wrong direction, simply reverse two of the three motor wires to change the direction of rotation.

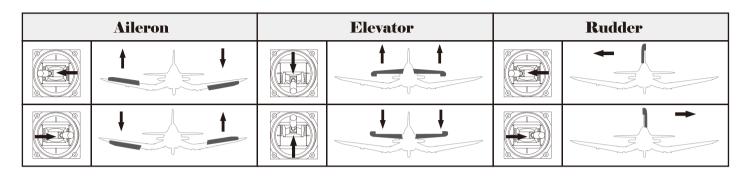
3. The motor has an optional brake setting. The ESC comes with brake switched off and we recommend that the model be flown with the brake off. However, the brake could be accidentally switched on if the motor battery is connected to the ESC while the throttle stick is set at full throttle. To switch the brake off, move the throttle stick to full throttle and plug in the motor battery. The motor will beep one time. Move the throttle stick to low throttle or the off position. The motor is ready to run and the brake will be switched off.

4. Battery Selection and Installation. We recommend the 11.1V 2200mAh 25C Li-Po battery. If using another battery, the battery must be at least a 11.1V 2200mAh 25C battery. Your battery should be approximately the same capacity, dimension and weight as the 11.1V 2200mAh 25C Li-Po battery to fit the fuselage without changing the center of gravity significantly.



transmitter and model setup

After assembly and prior to your first flight, make sure all control surfaces respond correctly to your transmitter by referring to the diagram below.



Control throws

The suggested control throw setting for the F4U-4 are as follows (dual rate setting):

Tip: The maiden flight should always be flown using low rates, fly the aircraft until you are familiar with its characteristics prior to trying high rates. Make sure the aircraft is flying at altitude and adequate velocity prior to using high rates, as the aircraft will be sensitive to control inputs with the larger control surface movements.

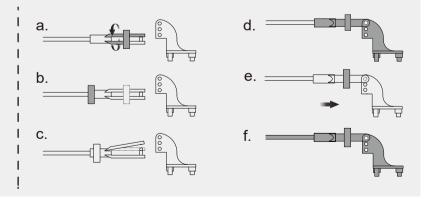
High RateLow RateElevator18mm up / down12mm up / downAileron16mm up / down10mm up / downRudder18mm left / right14mm left / right

Clevis installation -

1.Pull the tube from the clevis to the linkage.

2.Carefully spread the clevis, then insert the clevis pin into the desired hole in the control horn.

3.Move the tube to hold the clevis on the control horn.

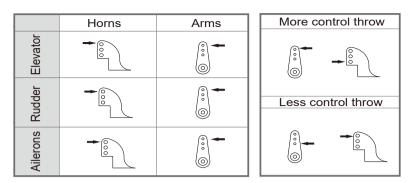


->>

Control horn and servo arm settings

1. The table shows the factory settings for the control horns and servo arms. Fly the aircraft at the factory settings before making changes.

2. After flying, you may choose to adjust the linkage positions for the desired control response.

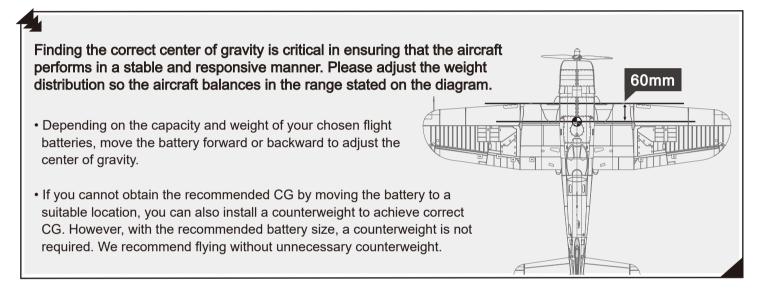


->>

->>



Finding the center of gravity -



Before flying the model

Find a suitable flying site

Find a flying site clear of buildings, trees, power lines and other obstructions. Until you know how much area will be required and have mastered flying your plane in confined spaces, choose a site which is at least the size of two to three football fields - a flying field specifically for R/C planes is best. Never fly near people - especially children, who can wander unpredictably.



A radio range check should be performed prior to the first flight of the day. This test may assist you in detecting electronic problems that may lead to a loss of control- problems such as low transmitter batteries, defective or damaged radio components or radio interference. This usually requires an assistant and should be done at the flying site.

«—— Before flying the model

Always turn your transmitter on first. Install a fully charged battery in the battery bay, then connect it to the ESC. In this process, make sure that the throttle cut functionality is on, and that the throttle stick is secured in its lowest position- otherwise, the propeller/fan will engage and possibly cause bodily harm.

Note: Please refer to your transmitter manual that came with your radio control system to perform a ground range check. If the controls are not working correctly or if anything seems wrong, do not fly the model until you correct the problem. Make certain all the servo wires are securely connected to the receiver and the transmitter batteries have a good connection.

Monitor your flight time

Monitor and limit your flight time using a timer (such as a stopwatch or on the transmitter, if available). As modern Lithium Polymer batteries are not designed to discharge completely, when the battery runs low, the ESC will lower then completely cut the power to the motors to protect the battery.Often (but not always) power can be briefly restored after the motor cuts off by holding the throttle stick all the way down for a few seconds.To avoid an unexpected dead-stick landing on your first flight, set your timer to a conservative 4 minutes. When your alarm sounds you should land right away.

Flight tips

Take off

Point the aircraft into the wind while slowly applying power until the aircraft starts to track straight, use the rudder when necessary. When the aircraft reaches takeoff speed, ease back on the elevator stick until the aircraft is climbing at a constant rate without decelerating. Climbing at too steep of an angle at the relatively low speeds of a takeoff-climb may result in an aerodynamic stall.

Flying

Always choose a wide-open space for flying your plane. It is ideal for you to fly at a sanctioned flying field. If you are not flying at an approved site always avoid flying near houses, trees, wires and buildings. You should also be careful to avoid flying in areas where there are many people, such as busy parks, schoolyards, or soccer fields. Consult laws and ordinances before choosing a location to fly your aircraft. After takeoff, gain some altitude. Climb to a safe height before trying technical manoeuvres.

Landing

Land the aircraft when you start to feel sluggish motor response. If using a transmitter with a timer, set the timer so you have enough flight time to make several landing approaches. The model's three point landing gear allows the model to land on hard surfaces. Align model directly into the wind and fly down to the ground. Fly the airplane down to the ground using 1/4-1/3 throttle to keep enough energy for proper flare. Before the model touches down, always fully decrease the throttle to avoid damaging the propeller or other components. The key to a great landing is to manage the power and elevator all the way to the ground and set down lightly on the main landing gear. With some practice, you will be able to set the aircraft gently on its main gear and hold it that way until the speed reduces enough where the nose wheel (tricycle landing gear aircraft) or tail wheel (tail draggers) settles onto the ground.

Maintenance

Repairs to the foam should be made with foam safe adhesives such as hot glue, foam safe CA, and 5min epoxy. When parts are not repairable, see the spare parts list for ordering by item number. Always check to make sure all screws on the aircraft are tightened. Pay special attention to make sure the spinner is firmly in place before every flight.

->>

«—— Troubleshooting ———

Problem	Possible Cause	Solution	
Aircraft will not respond to the throttle but responds to other controls.	ESC is not armed.Throttle channel is reversed.	 Lower throttle stick and throttle trim to lowest settings. Reverse throttle channel on transmitter. 	
Excessive vibration or propeller noise.	 Damaged spinner, propeller, motor or motor mount. Loose propeller and spinner parts. Propellor installed backwards. 	 Replace damaged parts. Tighten parts for propeller adapter, propeller and spinner. Remove and install propeller correctly. 	
Reduced flight time or aircraft underpowered.	 Flight battery charge is low. Propeller installed backward. Flight battery damaged. 	 Completely recharge flight battery. Replace flight battery and follow flight battery instructions. 	
Control surfaces unresponsive or sluggish.	 Control surface, control horn, linkage or servo damage. Wire damaged or connections loose. 	 Replace or repair damaged parts and adjust controls. Do a check of connections for loose wiring. 	
Controls reversed.	 Channels are reversed in the transmitter. 	 Do the control direction test and adjust controls for aircraft and transmitter. 	
Motor loses power Motor power pulses then motor loses power.	 Damage to motor, or battery. Loss of power to aircraft. ESC uses default soft Low Voltage Cutoff(LVC). 	 Do a check of batteries, transmitter, receiver, ESC, motor and wiring for damage(replace as needed). Land aircraft immediately and recharge flight battery. 	
LED on receiver flashes slowly.	Power loss to receiver.	 Check connection from ESC to receiver. Check servos for damage. Check linkages for binding. 	

Fuselage	AHMount001	Motor mount
Main wing set	AHShaft001	Motor shaft
Horizontal stabilizer	AHBoard004	Motor board
Cockpit	AHKV850	3536-KV850 Motor
Auxiliary fuel tank	AHESC40A	40A ESC(200mm input cable)
Spinner	AHSER9GP	9g servo positive
Cowl	AHCON001	Multi-connector set
Main landing gear set		
Rear landing gear set		
Main landing gear system		
Linkage rods		
Screw set		
Decal sheet		
LED set		
E-retract		
Propeller		
	Main wing set Horizontal stabilizer Cockpit Auxiliary fuel tank Spinner Cowl Main landing gear set Rear landing gear set Main landing gear system Linkage rods Screw set Decal sheet LED set E-retract	Main wing setAHShaft001Horizontal stabilizerAHBoard004CockpitAHKV850Auxiliary fuel tankAHESC40ASpinnerAHSER9GPCowlAHCON001Main landing gear setAHCON001Main landing gear setLinkage rodsScrew setDecal sheetLED setE-retract

MADE IN CHINA