

Before start ,please carefully read the explanations!

# F-16 Fighting Falcon



<b>Length:</b>	<b>2480mm/97.6in</b>
<b>Wing Span:</b>	<b>1630mm/65in</b>
<b>Flying Weight:</b>	<b>~16kg</b>
<b>Turbine:</b>	<b>14-16kg turbine</b>
<b>Radio:</b>	<b>Min. 9 Servos required</b>
<b>C.G:</b>	<b>210mm~220mm from the leading edge of the wing root.</b>

## **INSTRUCTION MANUAL**



### **SAFETY PRECAUTIONS**

This R/C airplane is not a toy!

(The people under 18 years old is forbidden from flying this model)

First-time builders should seek advice from people having building experience.If misused or abused,it can cause serious bodily injury and damage to property.

Fly only in open areas and preferably at a dedicated R/C flying site. We suggest having a qualified instructor carefully inspect your airplane before its first flight.Please carefully read and follow all instructions included with this airplane,your radio control system and any other components purchased separately.

## REQUIRED FOR OPERATION (Purchase separately!)



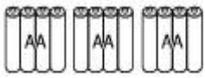
**CAUTION:** For details concerning the equipment listed below (size, maker, etc.), check with your hobby shop.

- 1** A minimum 6 channel radio for airplanes (with 8 servos), and dry batteries.



**CAUTION:** Only use a minimum 6 channel radio for airplanes! (No other radio may be used!)  
6 channel radio for airplane is highly recommended for this model.

12 AA-size Batteries



A minimum 6 channel transmitter for airplanes.



For handling the radio properly, refer to its instruction manual.

- 2** Engine and Muffler

Model Airplane Engine 14-16KG Turbine



**3**

Sponge Sheet



Gasoline tube



Fuel Filter

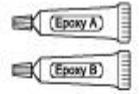


**4**

Glue Instant Glue



Epoxy Glue



**5**

Optional electric retract set



## TOOLS REQUIRED (Purchase separately!)

Sharp Hobby Knife



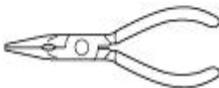
Phillips Screw Driver (l, m, s)



Awl



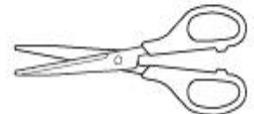
Needle Nose Pliers



Wire Cutters



Scissors



## BEFORE YOU BEGIN

- 1** Read through the manual before you begin, so you will have an overall idea of what to do.
- 2** Check all parts. If you find any defective or missing parts, contact your local dealer.
- 3** Symbols used throughout this instruction manual, comprise:
- 4** We strongly recommend you use the thread lock for all the screws when you build your model.



Apply epoxy glue.



Drill holes with the specified diameter (2mm).



Cut off excess.



Pay close attention here!



Apply instant glue (CA glue, super glue).



Cut off shade portion.



Ensure smooth non-binding movement while assembling.



Assemble left and right sides the same way.



Must be purchased separately!

Do not overlook this Symbol!



**Warning!**

# F16 Accessories

	TP Screw (2.3x8mm)	16
	TP Screw (3x14mm)	8
	TP Screw (3x12mm)	2
	Hex Screw (3x16mm)	4
	Hex Screw (3x12mm)	2
	Hex Screw (4x25mm)	5
	Round cross screws (4x25mm)	1
	Round Screw (2x10mm)	1
	Locknut (3mm)	8
	Locknut (2mm)	7
	Nut (3mm)	2
	Bush (4x12mm)	6
	Bush (3x6mm)	16
	Push rod(3x78mm)	2
	Big clevis (3mm)	4
	Mid clevis pushrod assembly (2mm)	2
	Mid clevis pushrod assembly (2mm)	1
	Fibre Horn (3mm hole)	4
	Vertical fin Alu parts(4mm hole)	1
	22x 30mm 90 degree 4mm wire	1
	Canopy wire 1mm (1x130mm)	1
	Antenna 4mm hole(4x12x102mm)	1
	3mm ply jig	1
	3mm tail pipe frame	1
	Stab servo mount	2
	Fuel tank 1	1
	Fuel tank 2	1
	Fuel tank 3	1

	Carbon fiber wing bolt (12x415mm)	2
	Carbon fiber wing bolt (12x150mm)	2
	Vertical alu tube (12x250mm)	1
	Vertical alu tube (8x118mm)	1
	Tail pipe	1
	Nose	1
	Nose frame	1
	Tail pipe exhaust	1
	Fuse fairing	2

## For Servo accessories

	TP Screw (2.3x12mm)	24
	Round Screw (2x10mm)	10
	Bush (2x6mm)	10
	Hex Screw (3x30mm)	2
	Bush (3x6mm)	4
	Nut (3mm)	2
	Locknut (3mm)	4
	Bearing (3x6mm)	10

## For Main landing gear accessories

	Hex Screw (4x25mm)	2
	Bush (4x12mm)	10
	Sunk screw (4x25mm)	8
	Locknut (4mm)	10

## For nose gear accessories

	Round Screw (2x10mm)	1
	Round Hex Screws (3x8mm)	4
	Locknut (2mm)	1
	Mid clevis (2mm)	1
	Nylon swing keeper	1
	Push rod (2x56x10mm)	1
	TP Screw (3x14mm)	4

Accessory list for the installation of aileron and flap.

-  TP Screw (2.3x12mm) ----- 8
-  Big clevis (3mm) ----- 4
-  Push rod(3x78mm) ----- 2
-  Fibre Horn (3mm hole) ----- 4
-  Carbon fiber wing bolt (12x415mm) ----- 2

1. Trim slots in appropriate position for wing servos right and left, assemble the servo to the wing with screw, use a steel wire to drag the servo arm to appropriate position



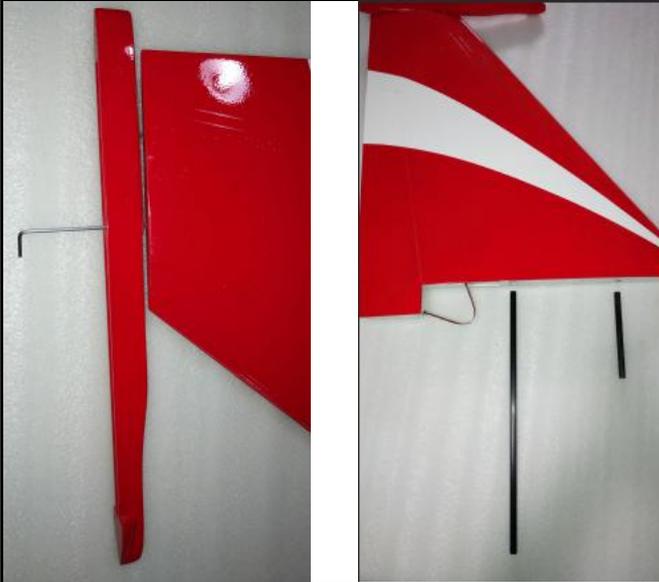
2. Adjust the servo arm to the right position and fixing it to the servo with screw, see picture .



3. Glue the horns to the aileron, Connect the horns to the servo arms with the linkage and lock each side with screws and nut. Make sure the aileron can at least 30mm



4. Secure the missile rail to the wing with screws, put the wing carbon fiber bars to the wings .



5. Assemble the wing to the fuselage through the carbon fiber bar, allow the servo lines go inside the fuselage, secure the wing with the screws from the holes in bottom



Accessory list for the installation of stab and vertical fin .

	Stab servo mount	2
	TP Screw (2.3x8mm)	16
	Hex Screw (3x30mm)	2
	Nut (3mm )	2
	Locknut (3mm )	4
	Bush (3x6mm)	4
	Vertical alu tube 1 (12x250mm)	1
	Vertical alu tube 2 (8x118mm)	1
	Vertical fin Alu parts(4mm hole)	1
	22x 30mm 90 degree 4mm wire	1

6. Assemble the servo to the stab servo mount, trim a slot in the stab root position of fuselage base on the 3mm ply jig.



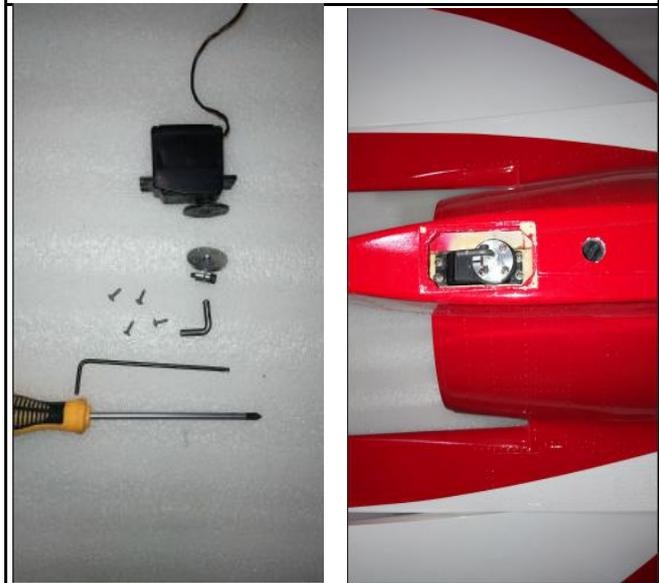
7. Assemble the stab servo to appropriate position in the fuselage with screws and make sure the screw with bearings can move through the slot smoothly .



8. Assemble the stab to the fuselage and make sure it can turn freely .



9. Assemble the servo of the vertical and install it to the tail fuselage with screws and screw driver .



10. Install the servo cover to the tail fuselage with screws as pictures below .



11. Glue the vertical alu tubes to the vertical fin.



12. Assemble the vertical fin to the tail fuselage .



13. Lock the vertical fin by screws from the tail fuselage holes, make sure the rudder can move smoothly .



Accessories for assembling the fuselage fuse fairing.

	Locknut (3mm) -----	4
	Bush (3x6mm) -----	4

14. Install the screws into the holes of fuse fairing tightly .



15. Open the top hatch, lock the fuse fairing to the fuselage from inside of the fuselage with nut and wrench .



Accessory list for the installation of tail pipe.

	TP Screw (3x14mm)	4
	Bush (3x6mm)	8

16. Put the tail pipe to the fuselage from the tail fuselage.



17. Lock pipe socket to the tail pipe with schrews and nut, and fix the side of pipe socket to the fuselage asbelow .



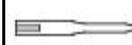
18. Put the fiber exhaust into the tail fuselage and lock it with screws .



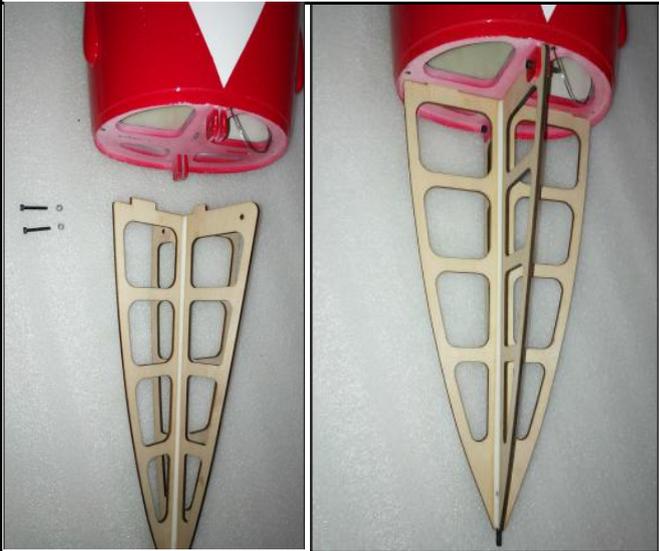
19. Fix the tail pipe through assembly the 3mm ply tail pipe frame, see pictures below .



Accessory list for the installation of plane nose .

	Hex Screw (3x16mm)	2
	Nut (3mm )	2
	Bush (3x6mm)	4
	Antenna 4mm hole (4x12x102mm)	1

20. Assemble the nose frame to the fuselage with screws and nuts.



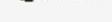
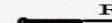
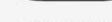
21. Put the plane nose to the fuselage until they fit very well, assemble the antenna to the plane nose through the threaded rod.



22. The plane Nose assembled finished.



Accessory list for the installation of retract system .

	Bush (2x6mm)	12
	Mid clevis pushrod assembly (2mm)	1
	TP Screw (2.3x8mm)	4
	Hex Screw (4x25mm)	8
	Bush (4x12mm)	10
	Sunk screw (4x25mm)	8
	Locknut (4mm)	10
	Round Screw (2x10mm)	7
	Round Hex Screws (3x8mm)	4
	Locknut (2mm)	7
	Mid clevis (2mm)	1
	Nylon swing keeper	1
	Push rod (2x56x10mm)	1
	TP Screw (3x14mm)	4
	Bush (4x12mm)	10
	TP Screw (2.3x12mm)	8

23. Install the gear door servo to appropriate position in the fuselage, connect the fiber horns in the gear doors to the servo arms with the linkage and lock each side with



24. Assemble the main landing gear to appropriate position into the fuselage with screws, install the wheels to the landing gear.



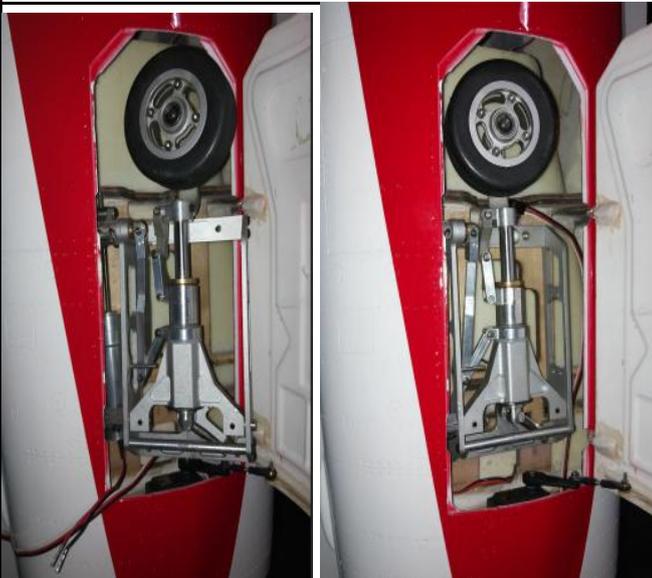
25. Make sure the gears can be completely put the gear down and retract the gear up.



26. Make sure the gears can be completely retracted during work .



27. Put the nose gear into the fuselage and assemble it into the fuselage .



Accessory list for the installation of fuel tanks to fuselages.

	<b>Hex Screw (4x20mm)</b>	<b>5</b>
	<b>Round cross screws (4x25mm)</b>	<b>1</b>
	<b>Bush (4x12mm)</b>	<b>6</b>

28. Assemble the fuel tank 1 to the nose fuselage, and connect the main fuselage to the nose fuselage with screws .



29. Assemble the fuselages together tightly .



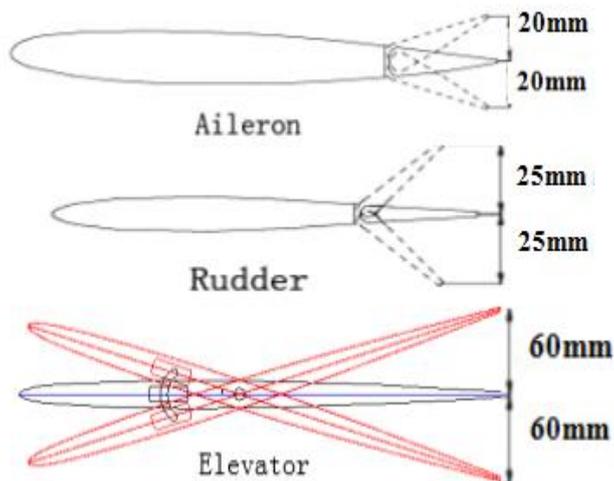
30. Assemble the other two fuel tanks to the main fuselage .



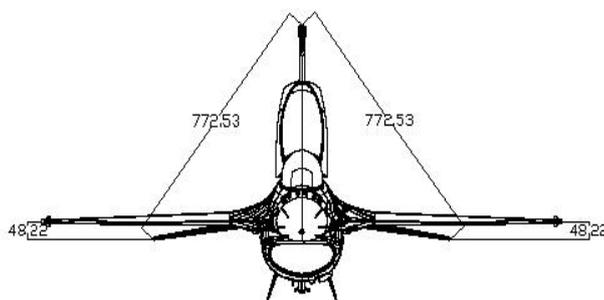
31. When you need to add some accessories under the cockpit, please remove the nose and pull the steel wires.



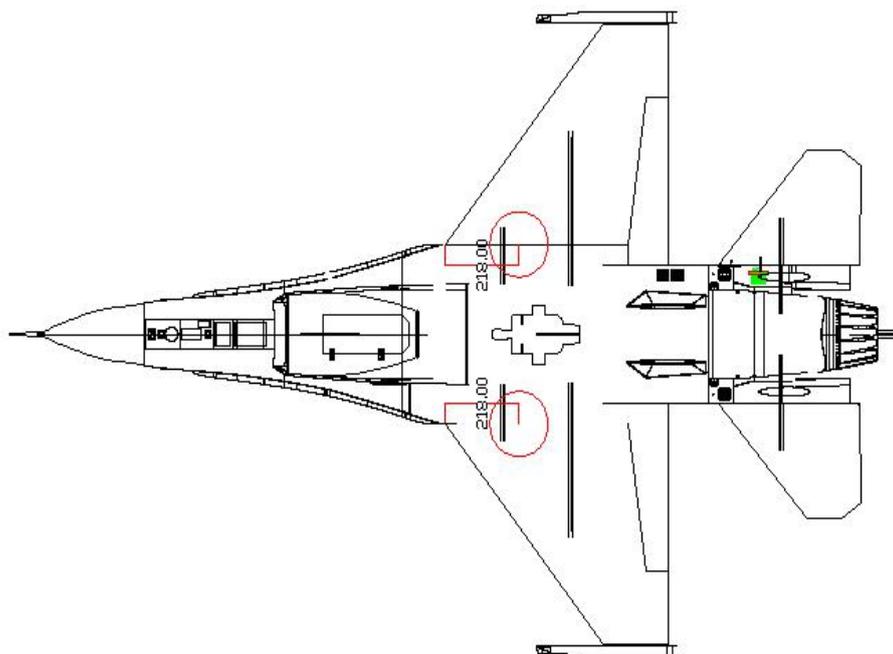
32. Adjust the travel of each control surface to the values in the diagrams. These values fit general flight capabilities. Readjust according to your needs and flight level.



33. Check all the datas well. make sure all sections glue tightly. Otherwise if coming off during flights, you'll lose control of your airplane which leads to accidents!



34. C.G: Never fly before checking the CG's required position. Never fly the model without well balancing.



35.The picture after the F16 assembly .

