

# F3 2.4G



## RC Helicopter Instruction Manual

### Main Features:

- Single blade for more flexible, fast flight and better wind resistance, fly outdoor or indoor.
- Features gyroscopic stabilization technology for smooth, easy-to-control flight.
- Easy to install and repair.

Specifications, material in this brochure are for reference only, any different please check with our website [www.symatoys.com](http://www.symatoys.com)

## PREFACE

Dear customer,

Thank you for buying SYMA's product. For your quickly grasp the operating performance of this product, please read the instructions carefully and keep it.

## IMPORTANT NOTE

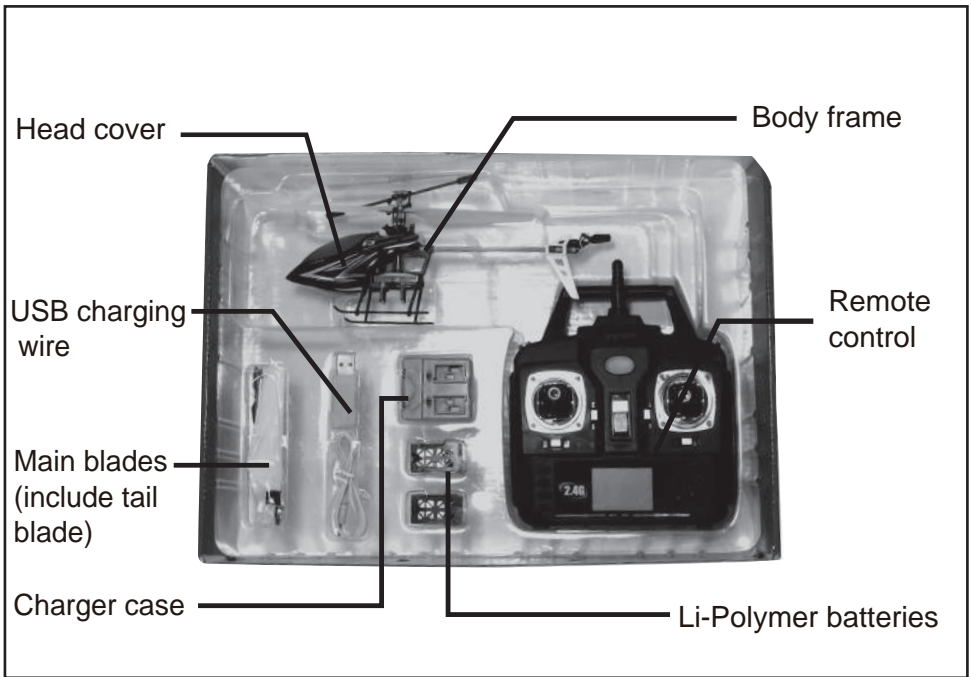
- 1.This not a general toys , but a precision rc helicopter which is a combination of professional and technical as machinery, electronics, aerodynamics, and high-frequency transmitter. Please install it according to the instruction. We will not respond for any lost of mistake operation.
- 2.This product suit for everyone fly rc helicopter well and over 14 years.
- 3.Fly avoid drafts, forced air, water, strong fans heat and air conditioning vents.
- 4.Syma will not responsible for any issue cause by improper operation or using.
- 5.If you have any problem on operation, flight or repair , please contact our local distributer ,we will provide technical support and after-sales service.

## WARMING

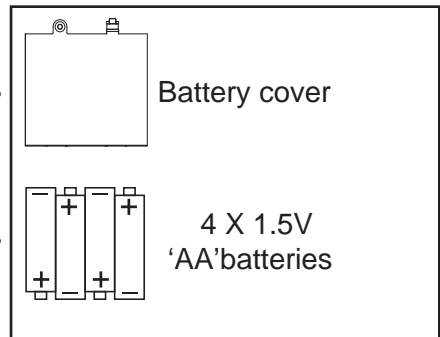
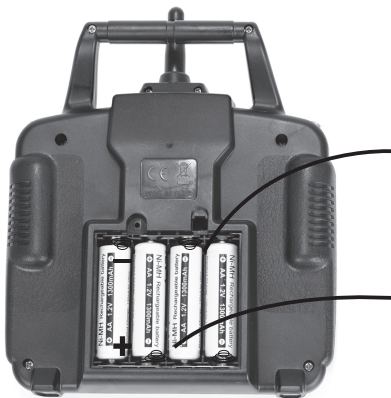
Please keep flying helicopter away from crowd. The incorrect installation, improper operation and electronic equipment malfunction will cause the damage or injury. Please keep in mind of flight.

1. Please fly away from crowd or drafts.
2. Please avoid water or humid environments
3. Fly in correct according to the instruction.
4. Please avoid rotating parts in high speed and heat.
5. Please turn on/off the power as the instruction shows as below, incorrect operation will be dangerous even cause the injury.

## PACKING LIST

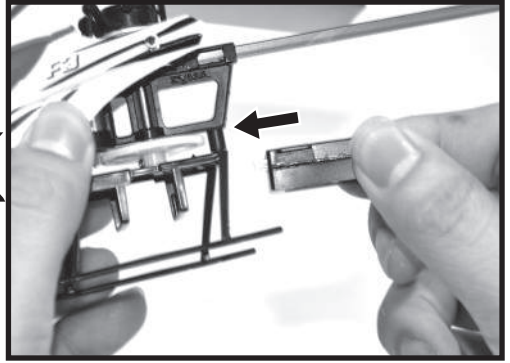
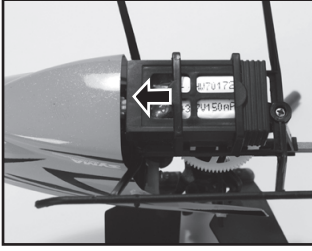


## Battery installation

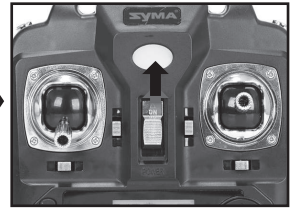
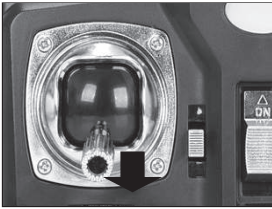


Unscrew and remove battery cover from RC unit. Insert 4 'AA' batteries, noting polarity indicators. Replace battery door cover.

## ASSEMBLY OF BATTERY TO HELICOPTER



Insert fully charged battery into the socket and press tight.



**Step one:** Open the controller ,then controller ticking and indicator flashes quickly

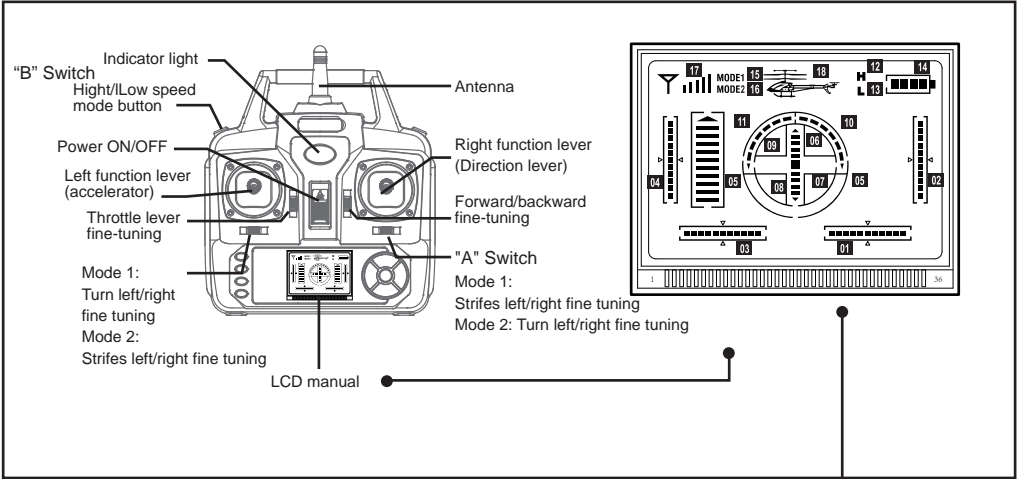
**Step Two:** Install the battery into the battery case , then set the helicopter on a level surface ,indicator will flash two times the first slow , then indicator becomes to Medium-speed flash.

**Step Three:** Push the controller throttle to the top ,and then pull it to the low-end ,ticking sound once again ,indicators on the helicopter and controller lighting up ,which means that the success of the codes

## Precautions

1. When the indicator of controller is lit state, but the helicopter indicator is flashing, it means the helicopter fail to match the signalwith controller .You need to turn off controller and helicopter and turn on them again to match signal.
2. When the helicopter fail to hover and always turn around, please re-start the controller and helicopter.
3. Make sure the battery installed into the helicopter well within 10 seconds when the controller opening ,or you can not complete the code .
4. Indicator on the helicopter lights off or lights flashing when the helicopter crashing obstructions

# REMOTE CONTROL KEYPAD AND LCD MANUAL

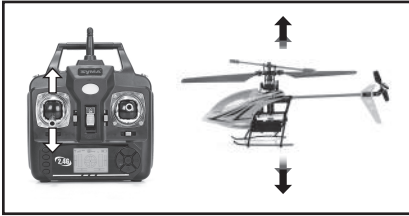


## Remote Control Keypad and LCD Manual

- 01** Strife fine-tuning: Power-on start in the centering.(Be Turn Left/Right Fine-tuning in Mode2)
- 02** Forward/backward fine-tuning: Power-on start in the middle.
- 03** Turn Left/Right fine-tuning: Power-on start in centering. (Be Strife Fine-tuning in Mode2)
- 04** Throttle lever fine-tuning: Power-on start in middle.
- 05** Throttle shows: Power-on start in lowest level.(Left and right throttle shows at one time)
- 06** Forward shows: Power-on start in the lowest level.(At the center square)
- 07** Left Strife shows: Power-on start in the lowest level.(At the center square)
- 08** Backward shows: Power-on start in the lowest level.(At the center square)
- 09** Right Strife shows: Power-on start in the lowest level.(At the center square)
- 10** Turn left : Power-on start in zero.
- 11** Turn right: Power-on start in zero.
- 12** High speed mode:Power-on without display "H".
- 13** Low speed mode: Default mode when power-on with "L".(Change to H mode when press button"B".)
- 14** Power shows: According to the battery's energy for the controller.
- 15** MODE 1 : Default mode when power-on. (Suitable for right-handed) In MODE 1, turn left/rightcontrolled by left lever,Strife controlled by right lever.
- 16** MODE 2 : Push the button "A" to right to change MODE 1 into MODE 2 (Suitable for left-handed).In MODE 2 ,Strife controlled by left lever, turn left/right controlled by right lever.
- 17** Signal shows: Normally to full frame.
- 18** Mini helicopter shows when power on with on function now.

# HELICOPTER CONTROL ILLUSTRATION (MODE 1)

## Operation Direction

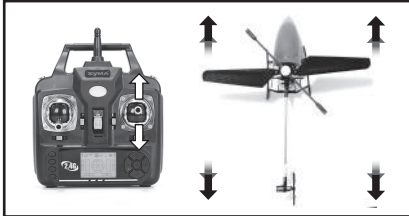


Push the throttle up or down, the helicopter flies up ward or downward.

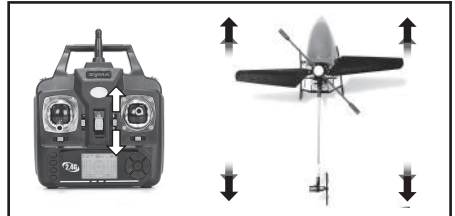
## Fine-tuning Operation



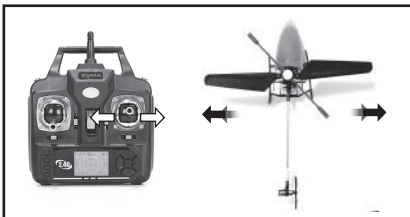
While helicopter is descending, push the fine-tuning button up. While helicopter is ascending, push the fine-tuning button down,



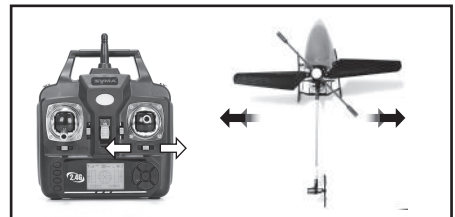
Push the direction control rod up or down, the helicopter flies forward or backward.



While helicopter moves forward, push the fine-tuning button down. While helicopter moves backward, push the fine-tuning button up.



Push the direction control rod left or right, the helicopter flies left or right.



While helicopter turns left, push the fine-tuning button right. While helicopter turns right, push the fine-tuning button left.



Push the throttle left or right, the helicopter flies left or right .



While helicopter strifes left, push the fine-tuning button right. While helicopter strifes right, push the fine-tuning button left.

# HELICOPTER CONTROL ILLUSTRATION (MODE 2)

## Operation Direction

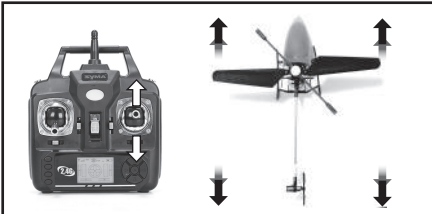


Push the throttle up or down, the helicopter flies upward or downward.

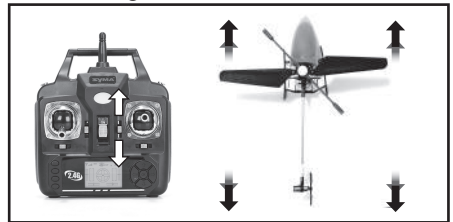
## Fine-tuning Operation



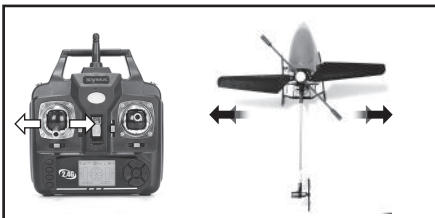
While helicopter is descending, push the fine-tuning button up. While helicopter is ascending, push the fine-tuning button down.



Push the direction control rod up or down, the helicopter flies forward or backward.



While helicopter moves forward, push the fine-tuning button down. While helicopter moves backward, push the fine-tuning button up.



Push the throttle left or right, the helicopter flies left or right.



While helicopter strifes left, push the fine-tuning button right. While helicopter strifes right, push the fine-tuning button left.



Push the direction control rod left or right, the helicopter flies left or right.



While helicopter turns left, push the fine-tuning button right. While helicopter turns right, push the fine-tuning button left.

## CHARGING BATTERY

- 1) Remove batteries from the package
- 2) Insert them into battery charger base
- 3) Insert one end of USB charging cable into the base, the other into a computer USB port or Insert USB charging cable into A/C adapter (not included)
- 4) Look for red charging indication light on the charger base, the light turns off when fully charged
- 5) Charge time: 50-60 minutes  
Flight time: about 6 minutes



Li-poly

Li-poly  
Charger

LED  
Indicator

Charger base

USB Charge Wire

Red Light OFF 	Red Light ON 
Charging Completed	Charging

- Tips: 1. Charging from computer USB port, please pull out USB cable and remove the batteries from charger base before turn off computer.  
2. Please connect the charger base and batteries in correct.

## Precautions of charging

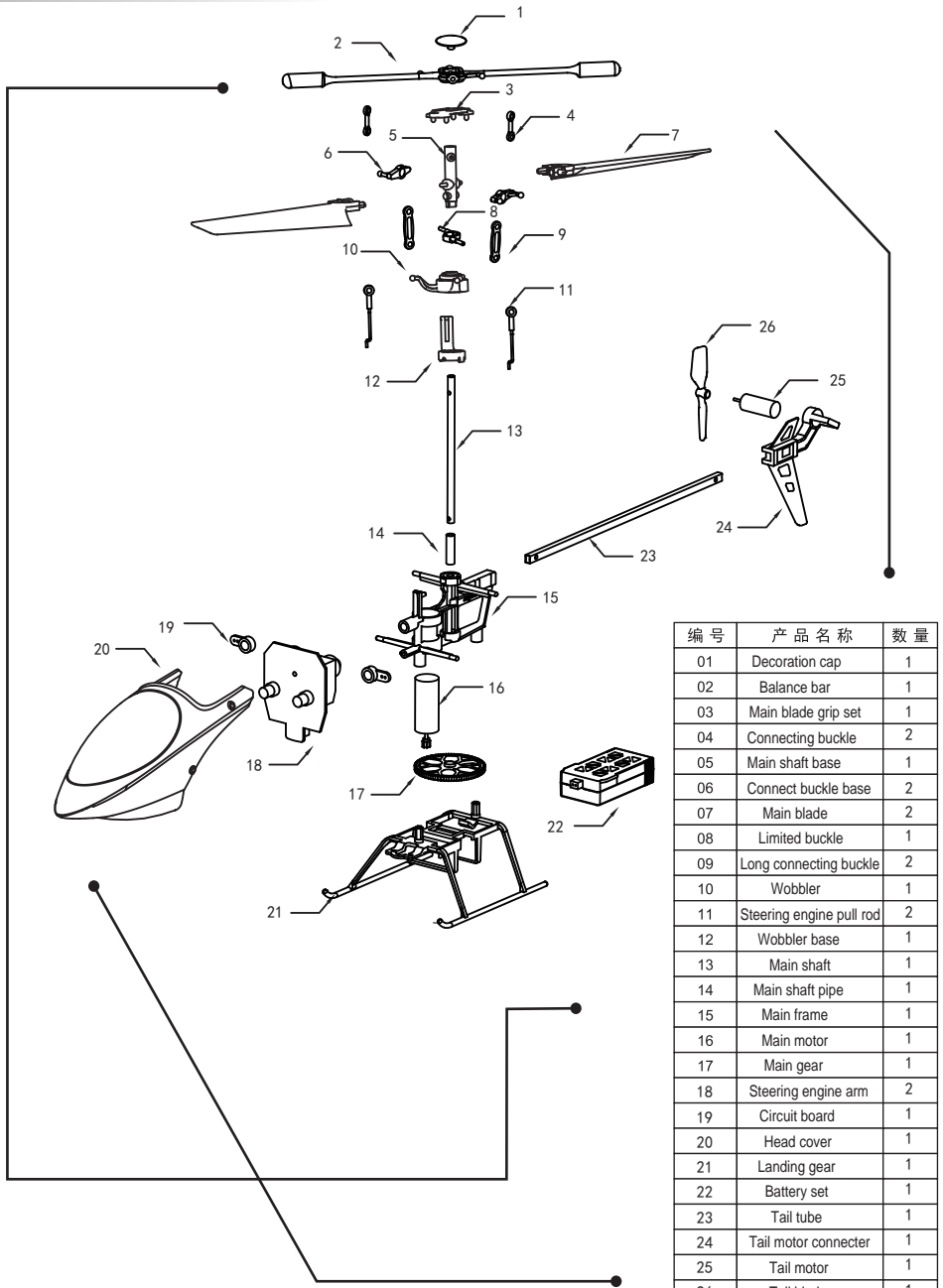
1. Please charge the helicopter in dry, ventilated place, keep away of heat and explosive materials.
2. To avoid injury, please move out the battery from helicopter than charge it and never leave it along.
3. To avoid battery damage and any accident, do not charge the warm battery right now after the flight.
4. To avoid the battery short-circuit, please keep the charging battery on a horizontal surface and avoid dropping.
5. Please use the USB cable supplied by SYMA and change the aging battery.
6. To avoid the battery repeating the charging and discharging automatically please move out the battery from the charge basic in time

## BATTERY MAINTENANCE

1. Keep the battery in dry, ventilated place, keep away of heat.
2. To avoid damage, do not excessive discharge.
3. Before long-term storage, please keep the battery in 50%~60% power.
4. If you stop use the battery more than one month, please check the battery every month.



# DETAIL ILLUSTRATION



编号	产品名称	数量
01	Decoration cap	1
02	Balance bar	1
03	Main blade grip set	1
04	Connecting buckle	2
05	Main shaft base	1
06	Connect buckle base	2
07	Main blade	2
08	Limited buckle	1
09	Long connecting buckle	2
10	Wobbler	1
11	Steering engine pull rod	2
12	Wobbler base	1
13	Main shaft	1
14	Main shaft pipe	1
15	Main frame	1
16	Main motor	1
17	Main gear	1
18	Steering engine arm	2
19	Circuit board	1
20	Head cover	1
21	Landing gear	1
22	Battery set	1
23	Tail tube	1
24	Tail motor connector	1
25	Tail motor	1
26	Tail blade	1

# EXAMINING PROCESS

Problem	Cause	Offering solutions
Helicopter not work	<ol style="list-style-type: none"> <li>1.Helicopter's battery is low.</li> <li>2.Controller's batteries are low, the indicator will keep flashing.</li> <li>3.Failure to match the band from remote controller.</li> <li>4.The built-in gyro failure to work.</li> </ol>	<ol style="list-style-type: none"> <li>1.Charge the helicopter.</li> <li>2.Replace the remote controller's batteries.</li> <li>3.Turn off the helicopter and match the band again.</li> <li>4.Turn off helicopter and put it in a horizontal position than turn on again , also the gyro will restart.</li> </ol>
Helicopter Slow to response	<ol style="list-style-type: none"> <li>1.Sunlight or strong light causes adverse affects.</li> <li>2.Similar frequency remote controller interfere with each other</li> </ol>	<ol style="list-style-type: none"> <li>1.Fly the helicopter without strong light.</li> <li>2.Fly the helicopter beyond the similar frequency.</li> </ol>

## Spare parts (For Choose & buy)

All the spare parts below, you could buy from the local distributor.



F3-01A  
Head cover A



F3-01B  
Head cover B



F3-01C  
Head cover C



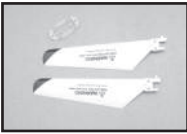
F3-02A  
Tail decoration A



F3-02B  
Tail decoration B



F3-02C  
Tail decoration C



F3-03A  
Main blade



F3-03B  
Tail blade



F3-04  
Main shaft



F3-05A  
Balance bar



F3-06  
Landing gear



F3-07  
Gear



F3-09  
Main shaft basic



F3-10  
Wobbler



F3-11  
Tail motor set



F3-13  
Main motor



F3-14  
Battery



F3-15  
Circuit board



F3-16A  
USB charge wire



F3-16B  
Charger base



F3-17  
Transmitter

## MAIN INFORMATION

Main blade Diameter: 190 mm

Body length: 230 mm

Body width: 55 mm

Body height: 90 mm

Main motor size :  $\varnothing 8.5$

Tail motor size:  $\varnothing 6$

Battery: 3.7V / 150 mah

Gyroscope : Lock gyro

