

**NO: 3DSM-01
3DSM-02**

Lynx-380XL

3D R/C-HELICOPTER

INSTRUCTION MANUAL



3DSM-02

Specifications & Equipment

Length: 600mm
Height: 170mm
Main Rotor: 520/570mm
Tail Rotor: 130/140mm
Motor Drive Gear: 10T
Main Drive Gear: 140T
Autoreduction Tail Drive Gear: 48T
Tail Drive Gear: 8T
Drive Gear Ratio: 1:14/16
Weight: 360/390

Recommended Power and Radio Equipment(Not included in kit)

Lithium battery: DC11.1V (1400mAh Lithium Polymer battery)
DC9.6V (700mAh Ni-MH)
Motor:370, 3000KV
ESC: 1-15A
Transmitter: 6 channel or more (Helicopter System)
Receiver: 6 channel or more
Gyro: 1pc
Servo: 6x3pc

Thank you for buying CLC Products. The Lynx-380XL is the latest technology in Rotary RC models. Please read this manual carefully before assembling and flying the new Lynx-380XL helicopter. We recommend that you keep this manual for future reference regarding tuning and maintenance.



WELCOME TO CLC R/C MODEL PRODUCTS

Thank you for buying CLC Products. The Lynx-380XL Helicopter is designed as easy to use, full featured Helicopter R/C model capable of all turns of rotary flight. Please read the manual carefully before assembling the model, and follow all precautions and recommendations located within the manual. Be sure to retain the manual for future reference, routine maintenance, and tuning. The Lynx-380XL is a new product developed by CLC. It features the best design available on the Micro-Hite market to date, providing flying stability for beginner, full aerobic capability for advanced flier, and unsurpassed reliability for customer support.

IMPORTANT NOTES

R/C helicopters, including the Lynx-380XL, are not toys. R/C helicopters utilize various high-tech products and technologies to provide superior performance. The rotating blades on the model spin at high speed and can cause potential risk or injury if used improperly. It is mandatory that you observe all R/C safety rules and adhere to local laws as applicable. We recommend that you contact your local hobby store and inquire about safety, rules, regulations, and local laws and statutes regarding R/C model operation in your area. Please make sure to be conscious of your own personal safety and the safety of others and your environment when operating all CLC products. When used properly, CLC R/C products will provide years of R/C entertainment.

We recommend that you obtain the assistance of an experienced pilot before attempting to fly our products for the first time. A local expert is the best way to properly assemble, setup, and fly your model for the first time.

The Lynx-380XL requires a certain degree of skill to operate, and is a consumer item. Any damage or destruction as a result of accidents or modifications are not covered by any warranty and cannot be returned for repair or replacement. Please contact our distributor for the technical consultation and parts if discussed rates when you experience problems during operation or maintenance.

Note: Fly only in safe areas, away from other people. Do not operate R/C aircraft within the vicinity of houses or crowds of people. R/C aircraft are prone to accidents, failures, and crashes due to a variety of reasons including, lack of maintenance, pilot error, and radio interference. Pilots are responsible for their actions and damage or injury occurring during the operation or as a result of R/C aircraft models.



It is not a Toy!

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SAFETY NOTES

1. Locates an appropriate location:
R/C helicopters fly at high speed, thus posing a certain degree of potential danger. Choose an appropriate flying site consisting of flat, smooth ground, a clear open field, or a large open room, such as gymnasium or warehouse without obstacles. Do not fly near buildings, high voltage cables, or trees to ensure the safety of yourself, others, and your model. Do not fly your model in inclement weather, such as rain, wind, snow, or darkness.
2. Obtain the assistance of an experienced pilot:
Before turning on your model and transmitter, check to make sure no one else is operating on the same frequency. Frequency interference can cause your model, or other models to crash. The guidance provided by an experienced pilot will be invaluable for the assembly, tuning, trimming, and setup of your first flight. (Recommended you to practice with simulated flying software.)
3. Always be aware of the rotating blades:
During the operation of the helicopter, the main rotor and tail rotor will be spinning at a high rate of speed. The blades are capable of inflicting serious bodily injury and damage to the environment. Be conscious of your actions, and careful to keep your face, eyes, hands, and loose clothing away from the blades. Always fly the model a safe distance from yourself and others, as well as surrounding objects. Never take your eyes off the model or leave it unattended while it is turned on. Immediately turn off the model and transmitter when you have landed the model.



PREVENT MOISTURE & KEEP AWAY FROM HEAT

RC models are composed of many precision electrical components. It is critical to keep the model and associated equipment away from moisture and other contaminants.

The introduction or exposure to water or moisture in any form can cause the model to malfunction resulting in loss of sale or a crash. Do not operate or expose to rain or moisture.



RC models are made up various forms of plastic. Plastic is very susceptible to damage or deformation due to heat.

Make sure not to store the model near any source of heat such as an oven or heater. It is best to store the model indoors in a climate-controlled room temperature environment.



STANDARD EQUIPMENT



RADIO TRANSMITTER AND ELECTRONIC EQUIPMENT REQUIRED FOR ASSEMBLY



POWER SYSTEM REQUIRED FOR ASSEMBLY



TOOLS REQUIRED FOR ASSEMBLY



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MAIN ROTOR INSTALLATION

Start assembling the model by beginning with the main rotor head. We will build the model from the rotor head. Out to the rest of the model. Apply silicon lubricant to the inside and outer edges of the o-rings, then insert them into the main rotor head. The fly bar ends must be the same length on each side of the rotor head. Measure the distance between the edge of the fly bar paddle and the fly bar control arm; make this distance the same on both sides. The fly bar control arms must be parallel to each other. The fly bar paddles must be locked in the same position, exactly horizontally level with the mainblade. Use an angle of attack ruler on each fly bar paddle and adjust the angles so that they are the same, and have the correct angle. It may become necessary to apply some glue on the screws to properly tighten them. The screws must be tightened enough, but be careful to not over-tighten them as it will strip the threads and cause the assembly to become loose. Note: After tightening the fly bar control arms and paddles, check for free movement and minimal gaps between the surfaces. All rotor head assemblies should be assembled tightly snug without any binding or slow movement.

When you see the marks as below, please use glue or oil to ensure flying safety.



CA: Use Cyanoacrylate Adhesive to fix R48. Use anaerobic retainer to fix. Or: Add lubricant.



Glue width approx. 1.5mm

R48 is very adhesive. Apply a little R48 on the screw and wipe surplus off. When disassembling, recommend to toast the metal joint about 15 seconds. (NOTE: Keep plastic parts away from heat.)

NO.	PN	Part No.	Part Name	QTY	Specification
01	2002	5-2002-001	Main rotor nut	1/2	M4x6mm
02	2002	W-2002-01	Main rotor o-ring	1/4	Shimano ring
03	2002	W-2002-12	Main rotor nut	1/2	Copper
04	2002	W-2002-13	Main rotor bearing	1/4	ø 14x2.5
05	2002	5-2002-09	Main rotor collar	1/2	

NO.	PN	Part No.	Part Name	QTY	Specification
06	2002	W-2002-16	Main rotor screw	1/2	M3.5x3
07	2002	W-2002-17	Main rotor nut and bearing	1/2	ø 14x2.5
08	2002	W-2002-14	Pinch control rod screw	1/2	M3.5x3
09	2002	W-2002-15	Main rotor collar	1/2	ø 13.5
10	2002	W-2002-18	Main rotor rear screw	1/2	M3.5x3

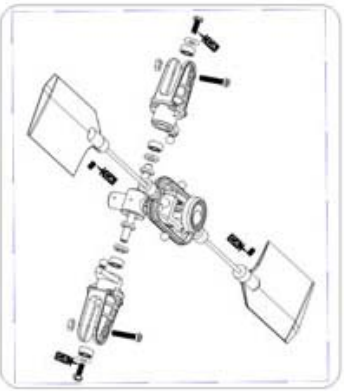
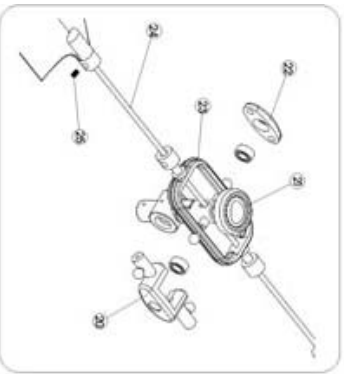
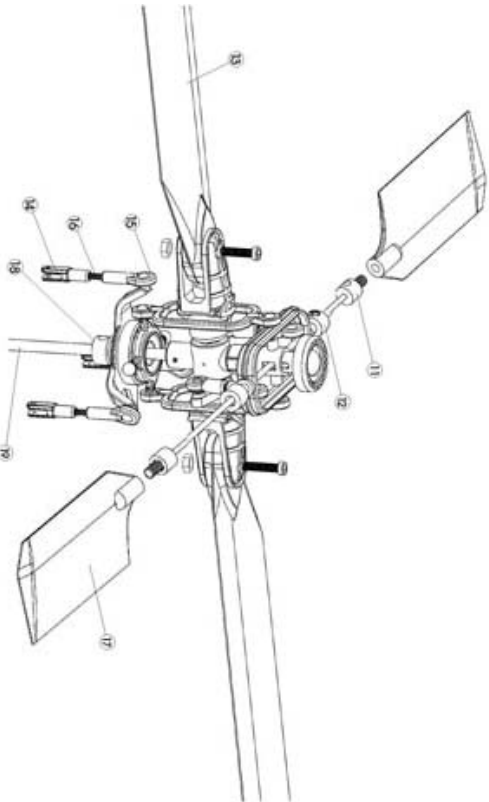


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MAIN ROTOR INSTALLATION

NO.	PN	Part No.	Part Name	QTY	Specification
11	32041	W-3204-03	Insulating brace screw	1/2	4x11.8
12	32041	W-3204-05	Adding blade screw	1/2	4x46
13	32045	S-32041-04	Pinch nut screw	1/2	
14	32046	S-32041-17	Blade connector cable	1/2	
15	32046	S-32041-14	Insulated ring power piece	1/2	
16	32046	W-3204-13	Insulated ring power piece	1/2	M1.2x12
17	32041	S-32041-03	Insulating block	1/2	

NO.	PN	Part No.	Part Name	QTY	Specification
18	32041(1)	W-3204-09	Main rotor screw	1/2	4x10
19	32041(1)	W-3204-02	Main nut	1/2	Blindnut steel
20	32046	S-32041-04B	Insulated control panel	1/2	
21	32046	S-32041-02	Main bearing cover	1/2	
22	32046	S-32041-04A	Insulated control cover	1/2	
23	32041	S-32041-05	External control panel	1/2	
24	32041(1)	W-3204-08	Insulating brace nut	1/2	CORCOR TBM
25	32041	W-3204-27	Blade screw	1/2	M1.2x4

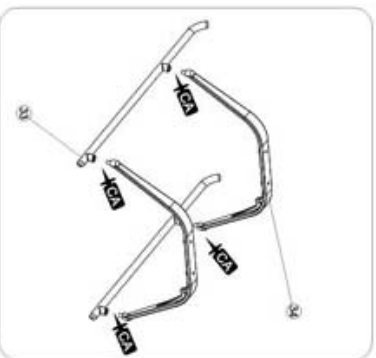
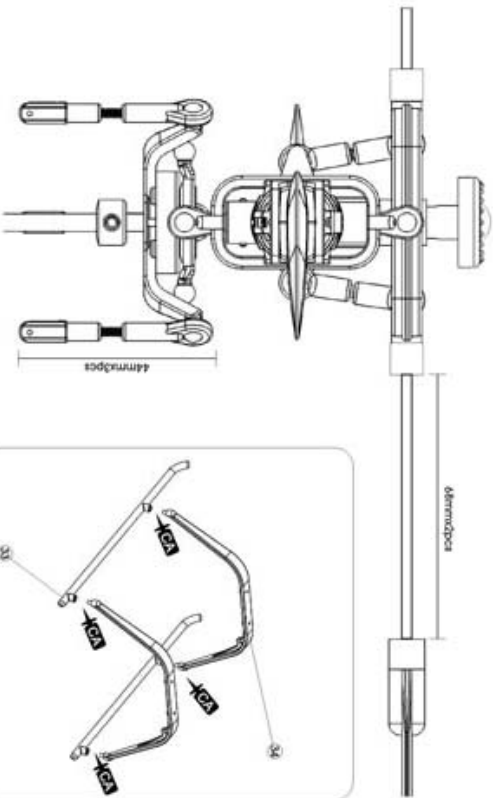
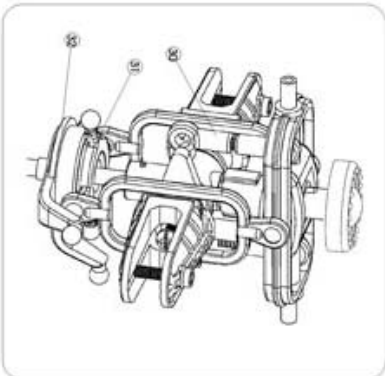
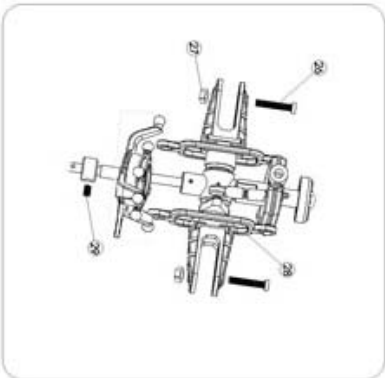


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MAIN ROTOR INSTALLATION

NO.	PN	Part No.	Part Name	QTY	Specification
26	32041	W-3204-26	Spur gear mesh screw	1/2	M1.2x4
27	32041	W-3204-55-A	Spur gear mesh nut	1/2	M1.2
28	32044	S-32041-06	Control shaft screw	1/2	M1.2x10
29	32041(1)	W-3204-06	Spur gear mesh bearing	1/2	M1.2x10
30	32046	S-32041-07	Spur control connection	1/2	

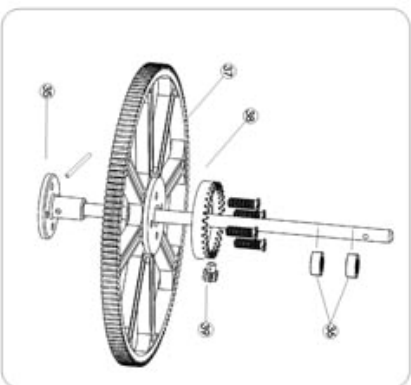
NO.	PN	Part No.	Part Name	QTY	Specification
31	32041	S-32041-11	Top frame cover	1/2	
32	32046	S-32041-12	Down frame cover	1/2	
33	32041.5	S-32041-13A	Front end nut	1/2	
34	32041.5	S-32041-13B	Rear end nut	1/2	



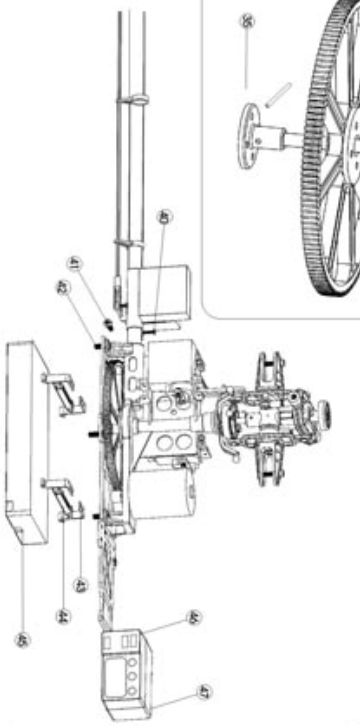
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MAIN WHEEL GEAR & BATTERY INSTALLATION

NO.	PN	Part No.	Part Name	QTY	Specification
35	100A11	W-3004-16	Motor main wheel gear	1x1	Alnico
36	100A11	W-3004-22	Main part bearing	1x2	45x16x23
37	100A11	S-3004-15	Main Wheel gear	1x1	Copper
38	100A11	W-3004-17CK	Motor copper wheel	1x1	Copper
39	100A11	W-3004-17CK	Tail transmission gear	1x1	Copper
40	100A11	W-3004-30CN	Motor main Speed	1x2	W 2x1.6



NO.	PN	Part No.	Part Name	QTY	Specification
41	100A11	W-3004-30	Motor tail pole screw	1x1	W 2x1.6
42	100A11	W-3004-29	Motor tail shaft screw	1x4	W 1.6x1.1
43	100A11	W-3004-11	Battery holder	1x4	Battery steel
44	100A11	S-3004-19	Spacer between rotor	1x2	
45	100A11	S-3004-19C	Bottom cover	1x1	
46	100A11	S-3004-13A	Bottom cover of holder	1x1	
47	100A11	S-3004-13B	Top cover of holder	1x1	
48	100A11	P4-3004-01	Forked board	1x1	Carbon fiber

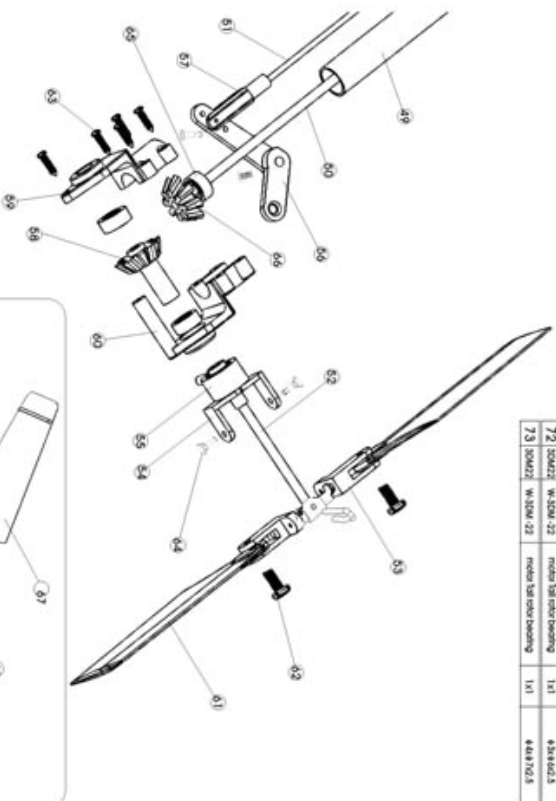


The different battery weight is different, coming pass to regulate the battery hook in front and back position to equilibrium fuselage of airplane

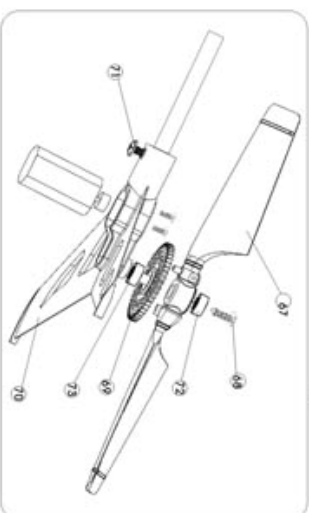
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TAIL ROTOR INSTALLATION

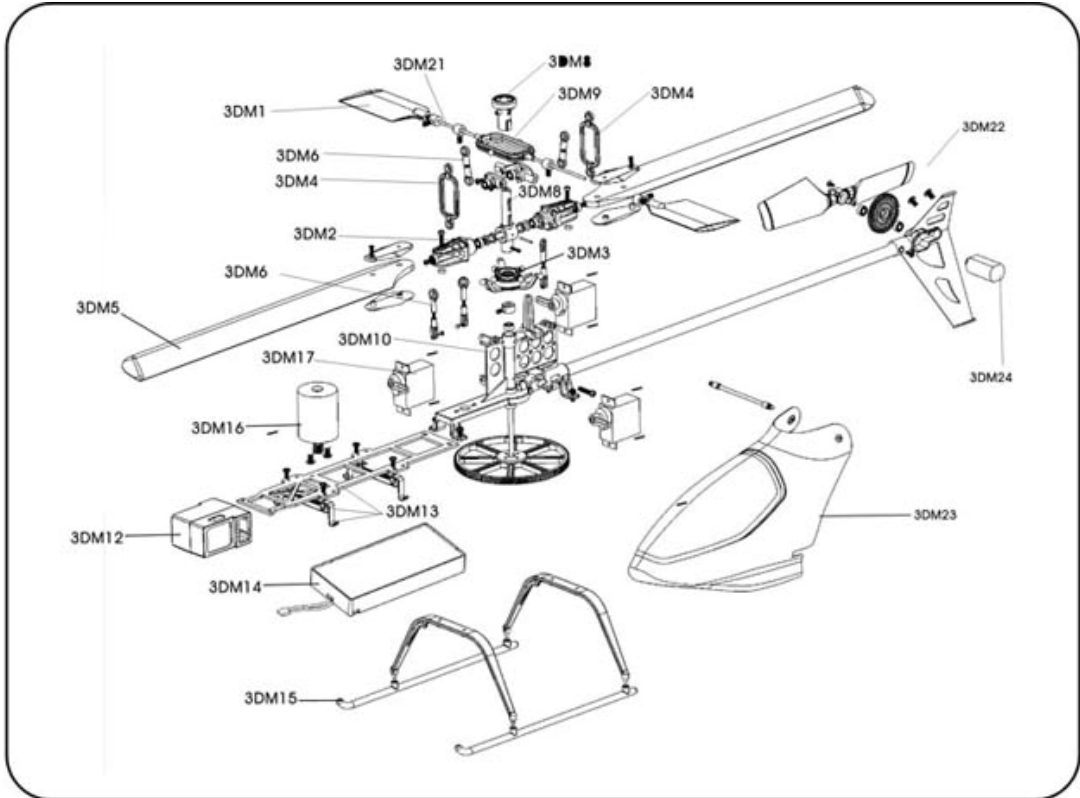
NO.	PN	Part No.	Part Name	QTY	Specification
49	100A11	P4-3004-02	Tail rotor	1x1	Carbon fiber
50	100A11	P4-3004-02CK	Tail rotor part	1x1	Carbon fiber
51	100A11	P4-3004-02CK	Tail rotor turning part	1x1	Carbon fiber
52	100A11	W-3004-17CK	Tail rotor motor	1x1	Brass steel
53	100A11	S-3004-28CK	Tail rotor clip	1x2	
54	100A11	S-3004-28CK	Tail rotor rotor	1x1	
55	100A11	S-3004-29CN	Tail rotor bearing shell	1x1	
56	100A11	S-3004-31CK	Tail rotor rotor	1x1	
57	100A11	S-3004-32CK	Tail rotor rotor clip	1x2	
58	100A11	S-3004-32CK	Tail rotor rotor wheel	1x1	
59	100A11	S-3004-32CK	Tail rotor A	1x1	



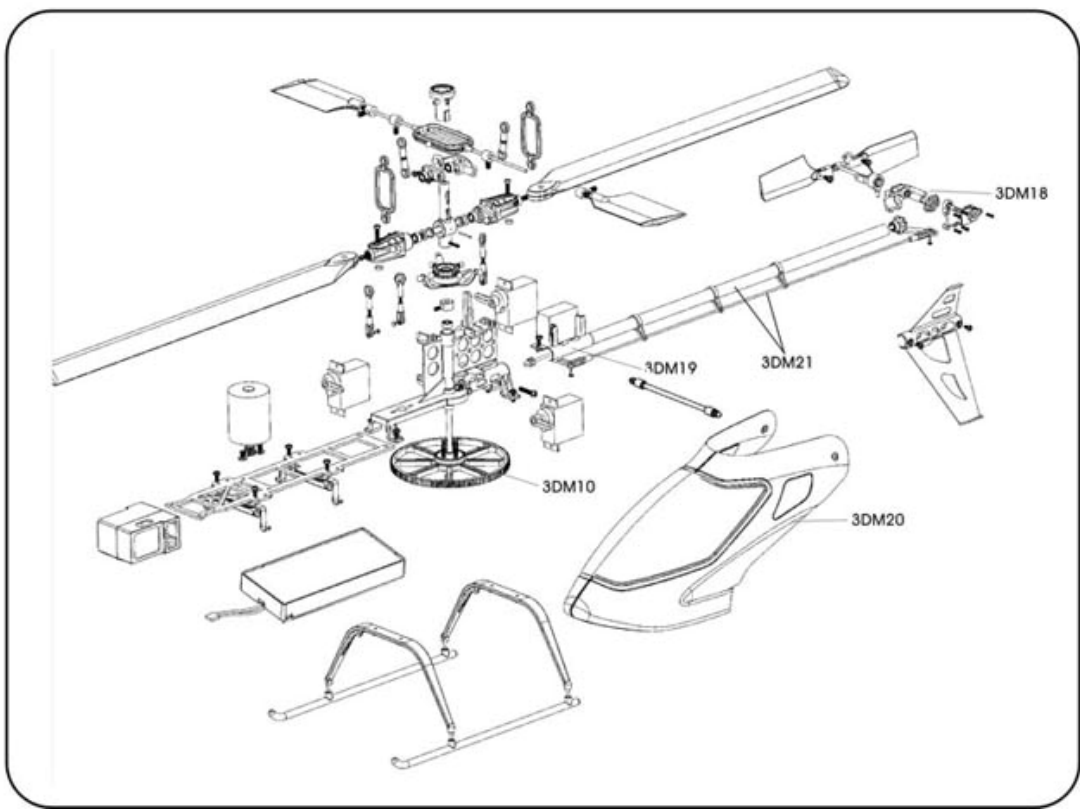
NO.	PN	Part No.	Part Name	QTY	Specification
60	100A11	S-3004-32CN	Tail rotor B	1x1	
61	100A11	S-3004-07CN	Tail rotor	1x2	
62	100A11	W-3004-31CN	Motor tail rotor screw	1x2	W 1.6x1.1
63	100A11	W-3004-42CN	Motor tail rotor screw	1x2	W 1.2x1.5
64	100A11	W-3004-17CN	Tail rotor motor	1x2	41.2x14.5
65	100A11	W-3004-32CN	Transmission shaft bearing	1x1	4.2x18x2.5
66	100A11	S-3004-32CN	Tail rotor wheel	1x1	W 1.6x1.5
67	100A11	S-3004-29	Motor tail rotor	1x1	
68	100A11	W-3004-24	Spacer motor tail rotor screw	1x1	W 1.6x1.5
69	100A11	S-3004-22	Tail motor wheel	1x1	
70	100A11	S-3004-21	Transmission bearing base	1x1	
71	100A11	W-3004-24	Motor tail rotor bearing screw	1x1	W 1.6x1.5
72	100A11	W-3004-22	Motor tail rotor bearing	1x1	4.5x14x2.5
73	100A11	W-3004-22	Motor tail rotor bearing	1x1	4.6x17x2.5



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EXPLODE DIAGRAM(3DSM-01)



EXPLODE DIAGRAM(3DSM-02)

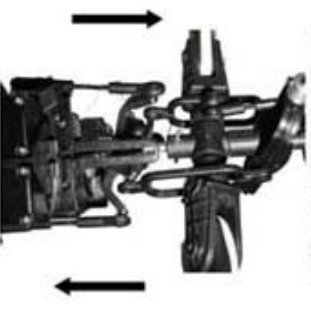
PRE-FLIGHT CHECKLIST

The model helicopter is an electronically controlled mechanical device traveling at high speeds and attitudes, with high-speed rotating blades posing a potential danger. As you make it a habit to always perform a pre-flight check of the entire model, look to each flight you discover any broken, loose, or worn parts, do not fly the model. Report or replace items immediately. After each flight, completely clean the model and check for damage or wear. Following these simple steps will provide for maximum enjoyment owning and operating the CLC helicopter.

Flying control motion of tilt left



Flying control motion of tilt right



Flying control motion of forward



Flying control motion of backward



PRE-FLIGHT CHECKLIST

Flying control motion of ascending



Flying control motion of descending



Flying control motion of left turn

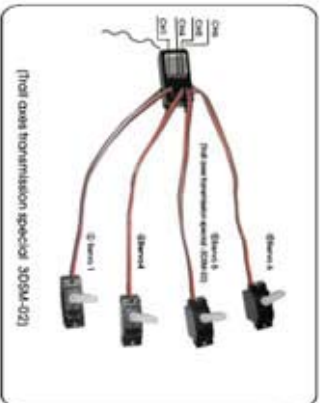
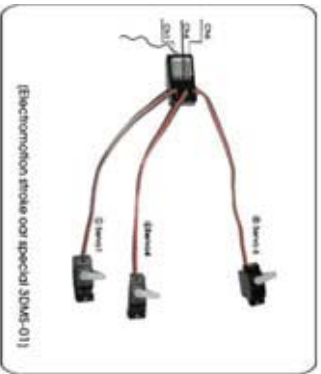


Flying control motion of right turn



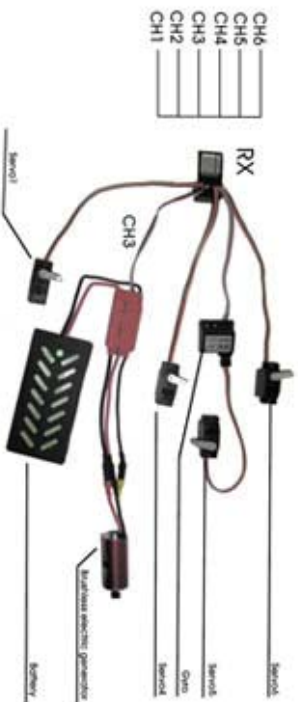
CONNECTION OF THE MIXING CONTROLLER

1. Plug the ① servo 1 into **Ch1** as following picture.
2. Plug the ② Servo③ into **Ch4** as following picture.
3. Plug the ④ Servo⑤ into **Ch6** as following picture.



Note:
The battery, main motor and tail motor connect method for 3DSM-01/3DSM-02 same as the above Page 13.

CLC RECEIVER WIRING (attachment choice equipment)



The additional equipments of helicopter can be choosen by the users according their needs.

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OPERATION AND ADJUSTMENT

- 1) Re-check the installation and connection, especially pay attention to the polarities. If the polarity of a motor is connected reversely, the motor will turn in the opposite direction, which is not serious because you can change the polarities. Nevertheless, if the polarity of the Controller is reversed, it may burn out the Controller. Be careful!
- 2) Firstly, set the throttle stick and its trimmer on your transmitter to the normal position. And please be noted that the servo reverse switches must be set to the normal position. Reset the IDLE UP to normal position again. Only in this condition can you turn on your transmitter. If you hear the 8-8 alarm voice, please check whether the voltage of the transmitter battery is normal or check the IDLE UP switch whether be settled in the normal position.
- 3) After the transmitter is turned on, you can connect the battery to the Controller.
- 4) Don't move or sway the machine. Wait for the Controller to calibrate for itself. The LED will firstly blink for 3-5 times. You have to wait until the lamp lights green before flying.
- 5) Observe if the tail rotor blades rotate in proper proportion to the main rotor blades. That is, to observe if the thrust of the tail rotor blades can counter the torque of the main rotor blades. If not, disconnect the battery and adjust the Set up trimmer (P13 11) to increase (+) or decrease (-) the r.p.m. of the tail rotor blades. Plug in the battery and try again until the tail rotor blades can Rotate in proper proportion to the main rotor blades and the model will not turn to left or right on the ground.
- 6) Then, fly the helicopter in different directions to test the effectiveness of the gyro. You can adjust the GAIN Trimmer (P13 10) to increase (+) or decrease (-) the gyro gain. For beginners, it is desired to increase the gyro gain hence the effectiveness of the tail so that the helicopter will be more directionally stable. But for a pro or an expert pilot, it is desired to decrease the gyro gain in order to make the helicopter more responsive to control.
- 7) Before adjust the GAIN Trimmer (P13 10) and/or the Set up Trimmer (P13 11), you must disconnect the battery from the Controller.
- 8) The Controller can be only used on helicopters. It is not designed for other type of model airplanes.
- 9) Should the helicopter crash, immediately set the throttle stick and its trimmer to the lowest position and disconnect the battery first and then turn off your transmitter to avoid damage of the helicopter and/or the Controller.
- 10) The stabilizing blade boom must be fasten with conjunction of the stabilizing blade. The conjunction screw must be glued on some CA and tightened in the boom on the proper station. This process is to avoid the damage the blade would fly separate away when it rotate in high speed.
- 11) The battery output must be the same voltage with local power supply.

CHARGING THE BATTERY PACK

Charging battery should be a partial procedure in your flight. It is recommended that you completely discharge the battery during the initial test flight before following the charging guidelines outlined below.

NI-Mh battery charging

The include AC charger will charge a fully discharged 9.6V 700mAh NI-Mh Battery (3DSM14). To ensure your battery is near fully discharged before charging, when your helicopter should slowly descend by itself or not be able to take off, you have to recharge the battery.

Note: Do not leave the charger and battery unattended during the charging process. While charging, place the battery on a heat resistant surface and constantly monitor the temperature of the battery pack. If the battery becomes hot any time during the charge process, discontinue charging immediately. A fully discharged battery left to charge about 2 hours around. And when the battery gets warm, it will inject fully charged. Or it will be damaged due to over charging. A partially discharged battery not removed from the charger when the battery becomes warm may also be damaged due to over charging. Do not allow children to charge battery packs without adult supervision.



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OPERATION AND ADJUSTMENT

About Lithium Polymer Battery

Using CLC's Lithium Polymer battery to fly your lovely helicopter is your best choice. The LiPo battery will improve flight performance and flight time, at similar or even less weight than Ni-Mh battery. Anyhow, with 3-cell 11.1V 1400mAh LiPo battery (UP-001), your helicopter will do the best aerobically performance. But one thing that LiPo batteries are significantly more volatile than the alkaline, Ni-Cd or Ni-Mh batteries used in RC applications, so you should be careful when you use LiPo battery.

Note: When charging LiPo batteries (3-Cell, 11.1V), charging current should never exceed 0.5A and charging voltage should never exceed 12.0V, and when you charge your LiPo battery, please notice the description in the packet which was stuck in the front of the LiPo charger (UP-007), when the light comes to red flash, it has power, when it appear red, it has been charged completely; when it display red and green, it is charging; and when it comes to red and green flash, it should be charged error.



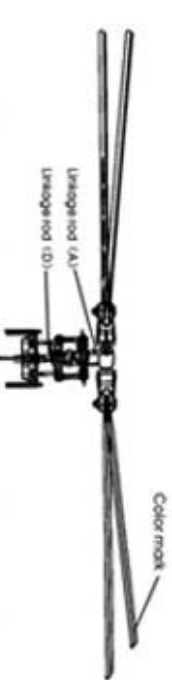
MAIN ROTOR ADJUSTMENTS



* Before flying, balancing of the blades is very important.

Screw the rotor blades together as illustration. The rotor blades are properly balanced when they are suspended exactly horizontally if not the blades are not in equilibrium.

This is corrected by applying tape to lighter blade.



- Linkage rod (A): Regular pitch trim (for large variations). ■ Linkage rod (D): Slight pitch trim (for large variations).
- ★ Apply a red piece of tape on one blade, or point a red stripe with a marker or point to identify one blade.
- ★ Run the helicopter or a safe distance and have someone look at the spinning blades of the reference angle shown in the photo. If the blade tracking is not set correctly, you will be able to identify the blade with the red identifying mark rotating higher or lower than the other blade. Adjust the linkage rod length shorter or longer to make both blades track level.

REGULAR MAINTENANCE

Regular maintenance is required to keep the Lynx-3000 helicopter in optimal and safe flying condition. The model requires precise configuration of the components and settings to be kept by the owner. Maintain regular maintenance on the model to avoid accidents or loss and optimum performance.

MAIN ROTOR CHECKLIST

- 1 Main Rotor Housing: When the main rotor housing is worn or faulty, there will be obvious vibration and poor flight control. Check the main rotor main shaft and fastening shaft for wear or damage. Replace parts as necessary to eliminate vibration.
- 2 O-Rings: The O-Rings will lose their elasticity over time. This will cause excess play on rotor and cause instability. Replace as needed.
- 3 Main Rotor Hub: When the hub will not fly or reacts slightly, even after checking for proper setting of pitch and travel, check the following items:
 - Plastic Parts
 - Bearings
 - Ball bearings
 - Rotor Blades
- 4 Check for excess play or gaps between the surfaces, missing or broken parts, or binding or restricted movement. It is important to check for main rotor balance before each flight. Operating the model when out of balance will cause excessive wear and premature failure of parts, possibly resulting in a dangerous situation.
- 5 Control Arm Assembly: Check regularly for cracks, warpage or binding control arms and push rods. Smooth movement of control arms and linkages is required for stable, vibration free flight.
- 6 Switchplate: Check for excess stop in the main ball where the main shaft rises on, and stop or looseness between the plastic and metal surfaces. Switchplate wear will result in poor stability and loss of control during flight. Replace as necessary.

FUSELAGE/CHASSIS

- 1 Main Shaft Bearing: Normal replacement interval for proper operation is between 60-1000 flights. If flying 3D or extreme aerobically often, inspect the bearing frequency and shorten the interval as necessary.
- 2 One Way Spring: One way bearing have longer lifespan. Failure is not common. To keep the one way bearing in good operation, remove it to clean and lubricate after every 50 flights if the main drive gear is broken, you should replace the one way bearing.
- 3 Drive Belt: CLC uses top quality, stretch-proof belts. It is however, impossible to prevent the belt from stretching or wearing out. Check belt tension regularly, and check for the wear on the teeth. Replace as necessary.

LINKAGE RODS & CONNECTING PARTS









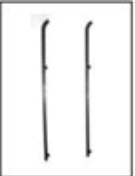






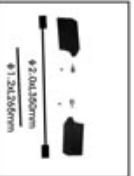

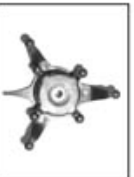

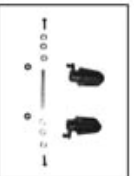
During assembly, take special care to keep the connecting parts in smooth operation, and avoid excess play or binding. Failure to do so will result in poor flight stability. The linkage rods and ends will break and wear due to normal usage, stretching and poor maintenance and environment. Check for wear and proper operation regularly, replace as needed.

TAIL ROTOR SYSTEM

- 1 Tail Rotor Control Set: Check the tail rotor bearing regularly. If there is excess play or gaps, replace immediately. Avoid any binding or improper contact on the tail components and bearings as this will cause excess wear and level potentially leading or delaying the tail system.
- 2 Tail Unit Assembly: Avoid flying in tall grass or weeds if grass or weed becomes lodged in the tail rotor unit, it will interfere with the operation, and cause the helicopter to lose control. Always check for foreign objects in the tail and clean them off immediately. Avoid using lubricants on the exposed surfaces of the model as it will attract and collect dirt and debris, and cause failure.
- 3 Tail Rotor Housing: Check the tail rotor housing for cleaning and maintenance after every 50 flights. If the tail does not operate smoothly or shows any signs of stress or wear, please replace immediately.
- 4 Tail Rotor: Check the Tail Rotor blades regularly for damage, especially if the helicopter ever strikes the ground while flying or after hard landings. Damaged Tail Rotor blades can induce vibration.

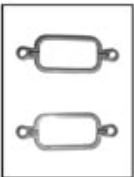

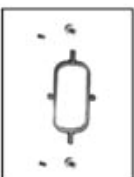

















NOTICE: Maintain regular maintenance on the model to avoid accidents or loss.

MAIN SPARE PARTS

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MAIN SPARE PARTS

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UPGRADE PARTS

Warning:

Changes or modifications to this unit not expressly approved by the party responsible for compliance will void the user's authority to operate the equipment. Any change to the equipment will void FCC grant.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.