





### www.copterx.com

Copyright © 2013 KY MODEL Company Limited.







	Table of content	1
1.	Introduction	2
2.	Safety Guidelines	2
3.	Radio Equipment and Electronics	3
4.	Assembly Tools Requirement	3
5.	Main Rotor Assembly	4
_	Frame Assembly	6
	Tail Rotor Assembly	12
		14
_	Frame and Gear Assembly	16
	Complete Kit Assembly	19



# **1. Introduction**

Thank you very much for purchasing a CopterX CX 600E Pro flybarless helicopter. In order to be able to use this product safely, please read this manual before flying the helicopter. Please fly the helicopter safely observing all rules and manners after having fully understood the flight precautions, the unit's capabilities, and the best way to fly it. Be sure to retain the manual for future reference, routine maintenance, and tuning.

#### **IMPORTANT NOTES**

•This helicopter is recommended for skilled intermediates and advanced RC helicopter flyers.

• Make sure to read and follow all the instructions in this manual, including all accessories.

•Should any problems arise, please confirm with an experienced RC helicopter personnel / instructor before introductory flight.

· Always find an experienced and / or qualified personnel / instructor for per flight inspection.

• Make sure flight vicinity is in an open space; free of crowds, obstacles, and buildings. Failure to abide may cause accidental and potentially hazardous encounters.

• Introductory flight should incorporate only the basic maneuvers (hovering, linear movements), until stick feel is mastered.

### 2. Safety Guidelines

**Locate an appropriate location:** R/C helicopters fly at very high speeds, thus posing a certain degree of danger. Choose an appropriate location. A clear large room such as a Gymnasium, basketball court, warehouse. Do not fly the model on residential or commercial places such as near houses or buildings. Do not fly near electrical poles or high voltage cables that may cause radio interference. Do not fly model on inclement weather such as rain, wind if snow.

Acquire the assistance of an experience pilot: Before starting up the model it is best that it is checked by someone that is experienced with this models, Parts checking prior flight is mandatory. On the flying field before actual power up of model and transmitter make sure the no other pilots have the same frequency. Frequency interference can cause your model and other model of same frequency to crash.

For first time pilots its highly recommended that you use a simulator (Computer based flight simulator) for enhancement of flight skills

Aware of moving parts: During actual operation of the helicopter, the main rotor blades will be spinning at a very high rate of speed. The blades are capable of imposing serious bodily injury and damage to the environment. Be careful on body parts such as hand, eyes, arms. Also be cautious of loose clothing, can be sucked up by the rotating blades. Do not turn your away you eyes when the model is turned on or in use. Never leave the model unattended. Immediately turn off the model and transmitter after use.





**Prevent Moisture:** R/C models are composed of many precision electrical components that is sensitive to moisture and water. Keep away from water sources or moisture related places.

The introduction of moisture in any form can seriously damage the electrical parts of the model that can cause malfunction and premature flight patterns.

**Keep Away From Heat:** R/C models are made of some parts plastic.

Make sure to store the model away from head producing appliances such as heaters or stoves. It is best to keep the model indoors in a controlled cool environment with ambient room temperature.

## **3. Radio Equipment and Electronics**



Transmitter

(6-CH, helicopter system)



Reciever

(6-CH, or more)





Standard Servos

Flybarless Gyro





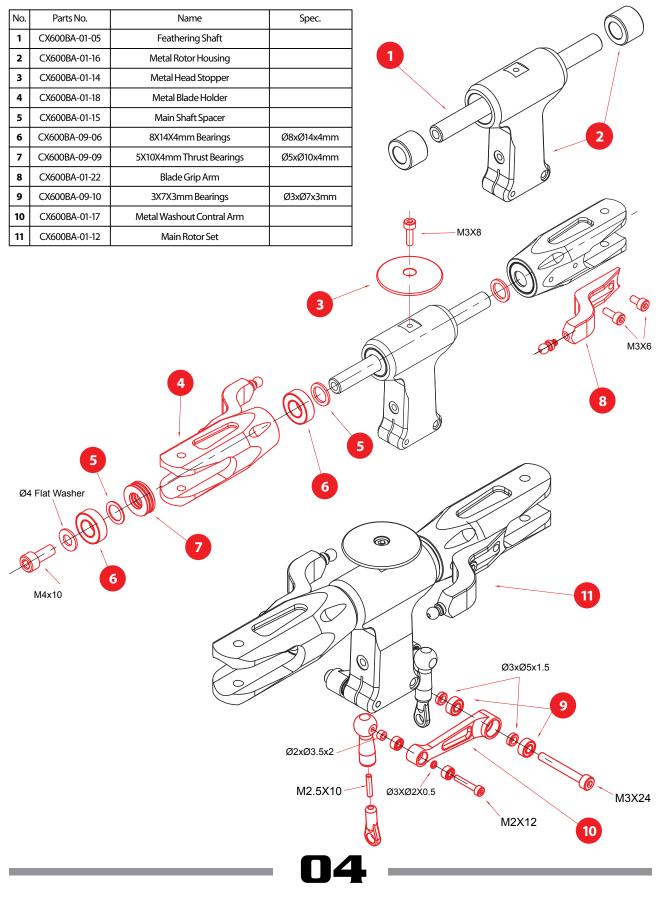
### 4. Assembly Tools Requirement



**NOTE:** The following marks will be seen on the pages of this instruction manual. This designates location and contact points that needs application of adhesive. Liquid thread lock are usually used on metal to metal contact screws normally with fine pitch threading. For Metal to plastic CA can be applied screws designated as force threading or self tapping.



### **5. Main Rotor Assembly**



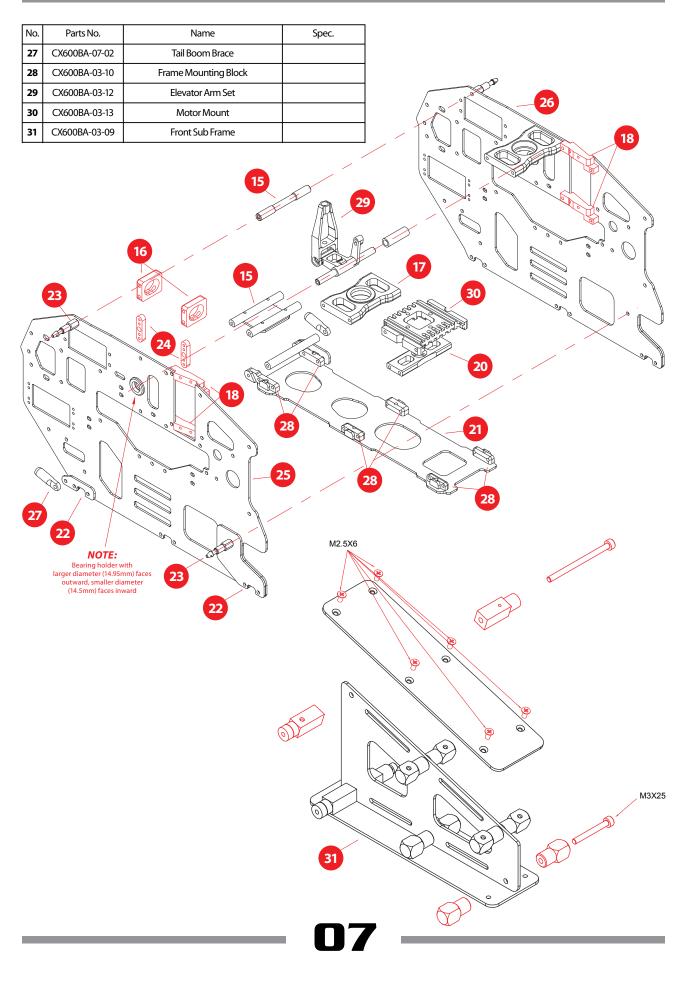




### 6. Frame Assembly

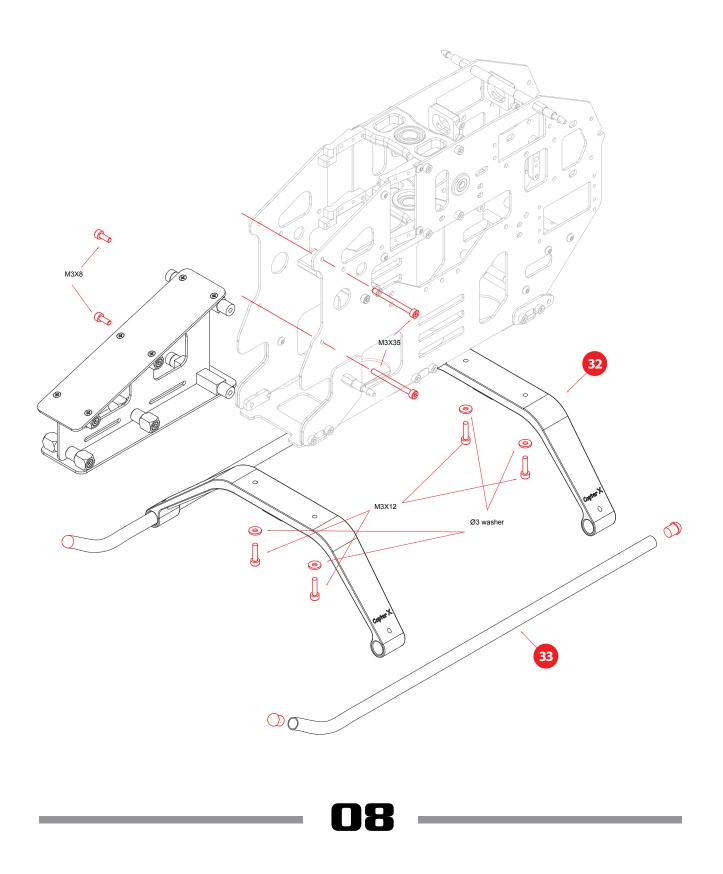
No. Parts No.	Name	Spec.	M2.5X6			
15 CX600BA-03-17	Carbon Fiber Gyro Mount					
16 CX600BA-03-06	Metal Elevator Servo Mount		· · · · · · · · · · · · · · · · · · ·			
17 CX600BA-03-11	Metal Main Shaft Bearing Block					
18 CX600BA-03-07	Metal Pitch / Aileron Servo Mount					
18 CX600BA-03-19	Cyclic Servo Mount V2	Upgrade Parts				
<b>19</b> CX600BA-09-02	6X12X4mm Bearings	Ø6xØ12x4mm				
20 CX600BA-03-14	Motor Pinion Gear Bearing Mount					
21 CX600BA-03-04	Carbon Bottom Plate					
22 CX600BA-03-05	Carbon Frame Brace Set					
23 CX600BA-03-15	Canopy Mounting Bolt					
24 CX600BA-03-08	Metal Rudder Servo Mount					
25 CX600BA-03-03	Carbon Main Frame Right					
26 CX600BA-03-02	Carbon Main Frame Left					
Image: see Page 07 first before assembling.						





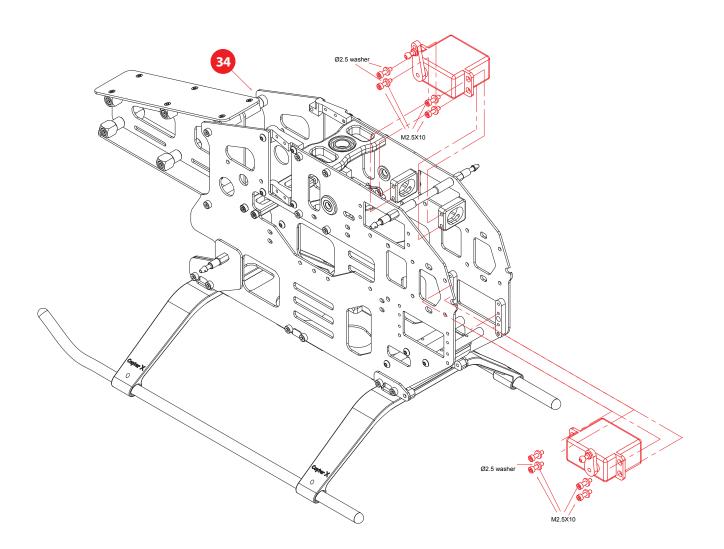


No.	Parts No.	Name	Spec.
32 CX600BA-04-02		Landing Skid	
33	CX600BA-04-03	Landing Skid Pipe	

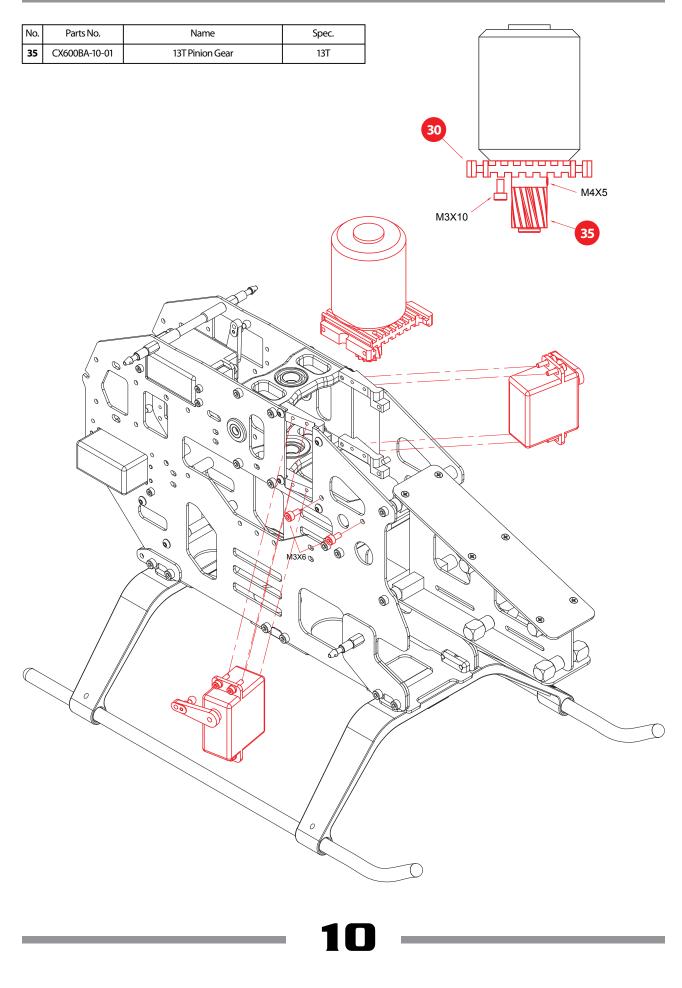




No.	Parts No.	Name	Spec.
34	34 CX600BA-03-01 Carbon Fiber & Metal Main Frame		

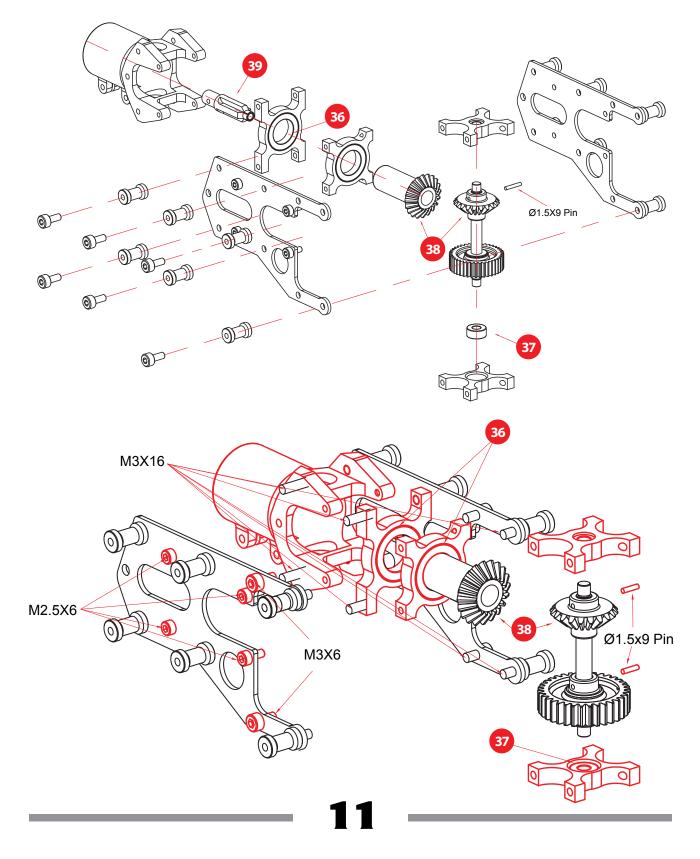








No.	Parts No.	Name	Spec.
36	CX600BA-09-05	12X18X4mm Bearings	Ø12xØ18x4mm
37 CX600BA-09-04		4X9X4mm Bearings	Ø4xØ9x4mm
38 CX600BA-05-07		CX600BA-05-07 M0.8 Torque Tube Front Drive Gear Set/34T	
39	CX600BA-02-03	Torque Tube	





0000

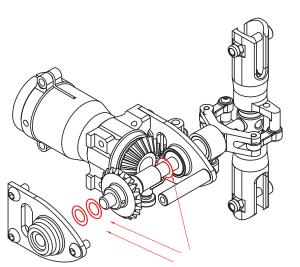
Ø3xØ6x2.5 bearing

43

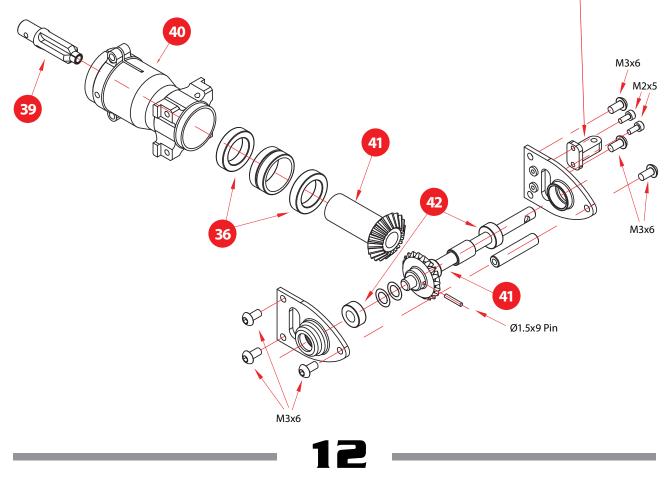
- M3x16

## 7. Tail Rotor Assembly

No.	Parts No.	Name	Spec.
40	CX600BA-02-01	Metal Tail Torque Tube Unit	
41	CX600BA-05-06 Tail Drive Gear		
42	2 CX600BA-09-07 5X10X4mm Bearings		Ø5xØ10x4mm
43	CX600BA-02-04 Tail Rotor Slider Set		

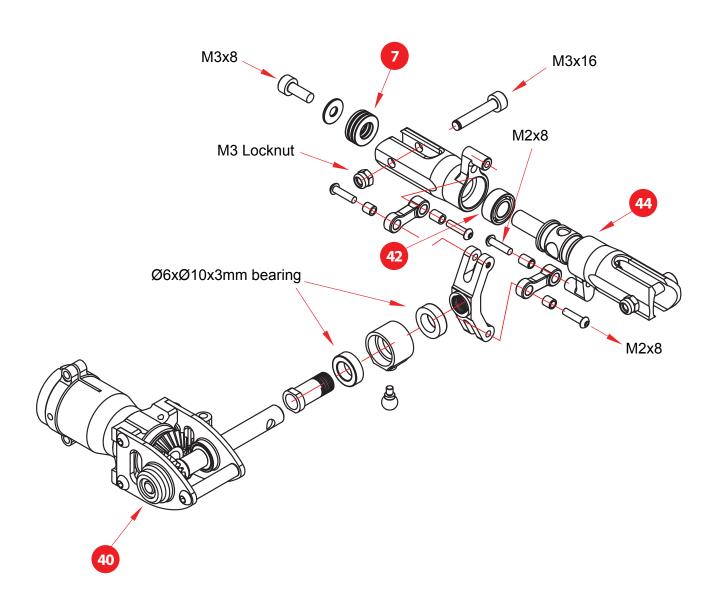


NOTE: Adjust the spacing between two gears by increasing or decreasing the number of spacer





No.	Parts No.	Name	Spec.
44	CX600BA-02-02	Metal Tail Rotor Holder	

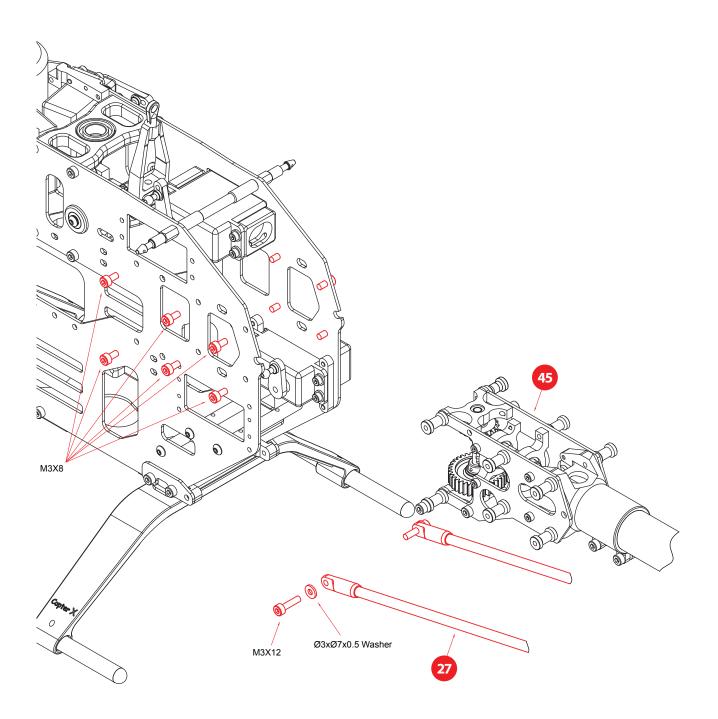




### 8. Tail Section Assembly

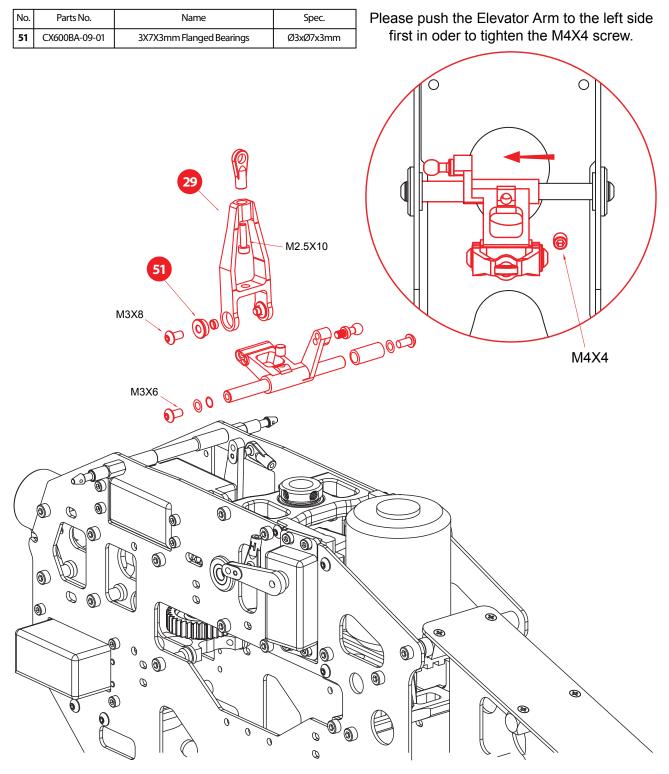
				П
No.	Parts No.	Name	Spec.	
45	CX600BA-03-16	Tail Boom Holder		
46	CX600BA-06-02	Carbon Horizontal Stabilizer		
47	CX600BA-07-04	Metal Stabilizer Mount		
48	CX600BA-07-01	Tail Boom		
49	CX600BA-07-03	Tail Control Rod Assembly		
50	CX600BA-06-01	Carbon Vertical Stabilizer		
		NOTE: After inserting the tathe gear box, positioning driver with the gear box, position with the gear	ll a Ø2.5 hole	two holes must be in parallel position (180°)



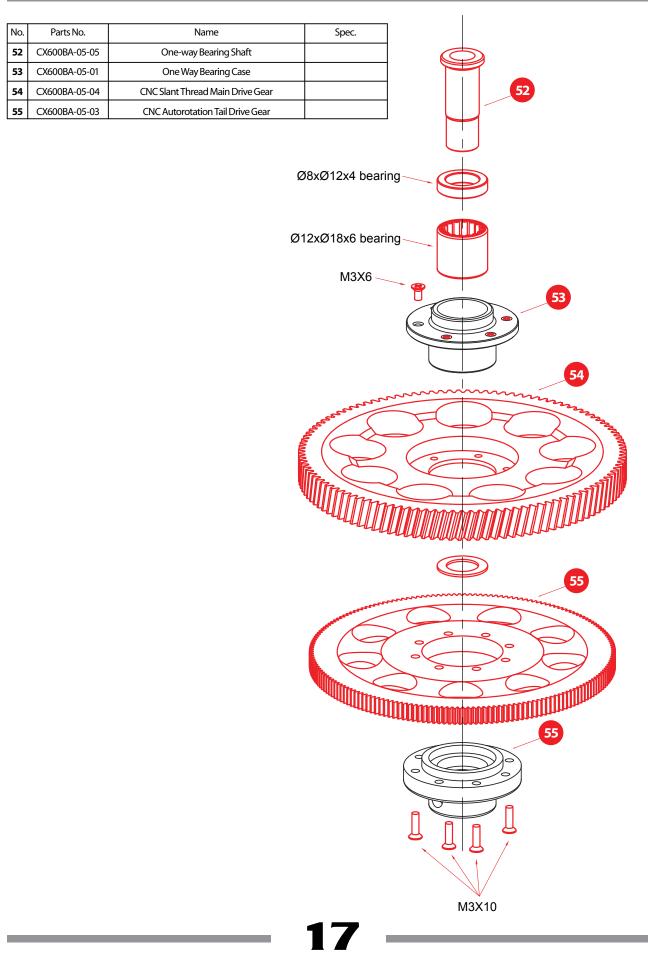




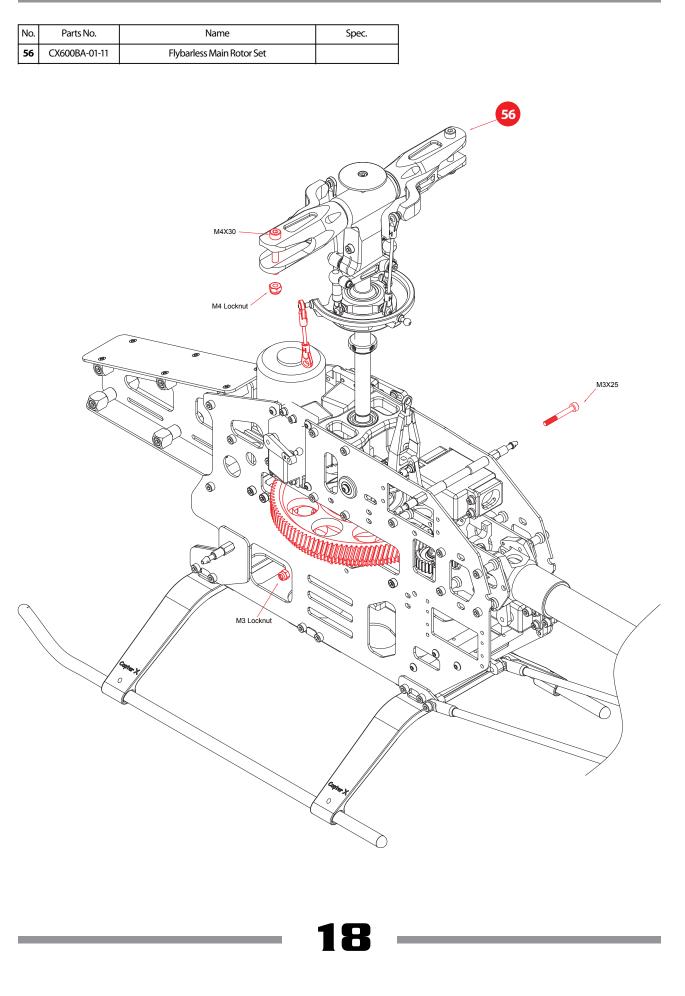
### **9. Frame and Gear Assembly**















# **10. Complete Kit Assembly**





### www.copterx.com

Copyright © 2013 KY MODEL Company Limited.