

# Compass

# Atom 500



## Assembly Manual

Version 2.0

Created : 10/26/2009

### Features :

- Best 3D Performance
- Precision ECCPM 120° Metal Swashplate
- Easy Maintenance
- 80% Preassembled
- Low Parts Count
- Wear Resistant Parts

***Fly at your own risk !***

Equipped with extra Strong Frames, Aluminum Rotor Head, Aluminum Tail Rotor and a Metal Swashplate the Atom 500 not only looks great but is long lasting.

Copyright Compass Model 2008

As we continue to improve our products; this manual may not reflect all recent product amendments.  
For more information, please refer to [www.compassmodel.com](http://www.compassmodel.com)

## Introduction

Congratulations on your purchase of the Compass Model Atom 500 Electric Powered Helicopter. This model has been designed using the latest in state-of-the-art design technology. To achieve the best performance and reliability from this model, please read through these instructions carefully so you become familiar with the contents of this kit before assembly.

## AMA Information

We strongly encourage all prospective and current R/C aircraft pilots to join the Academy of Model Aeronautics. The AMA is a non-profit organization that provides services to model aircraft pilots. As an AMA member, you will receive a monthly magazine entitled Model Aviation, as well as liability insurance plan to cover against possible accident or injury. All AMA charter aircraft clubs require individuals to hold a current AMA sporting license prior to operation of their models. For further information, you can contact the AMA at:

Academy of Model Aeronautics  
5151 East Memorial Drive  
Muncie, IN47302

## Warning

The radio-controlled model helicopter contained in this kit is not a toy, but a sophisticated piece of equipment. This product is not recommended for use by children. Radio-controlled models such as this are capable of causing both property damage and/or bodily harm to both the operator/assembler and/or spectator if not properly assembled and operated. Compass Model Ltd. assumes no liability for damage that could occur from the assembly and/or use/misuse of this product. Although the Atom 500 is powered by a quiet, smooth-running electric motor, it should be assembled and operated with the same care as its larger glow engine counterparts. When operating your Atom 500, please exercise caution and safety.

## Warranty

The warranty covers defects in material or workmanship or missing components to the original purchaser for 30 days from the date of purchase. Compass Model Ltd will replace or repair, at our discretion, the defective or missing component. Defective components must be returned to our Distributor prior to replacement.

Any part, which has been improperly installed, abused, crash damaged or altered by unauthorized agencies is not covered. Under no circumstances will the buyer be entitled to consequential or incidental damages. The components used in this kit are made from special materials designed for special applications and design strengths. We recommend that all replacement parts be original parts manufactured by Compass Model Ltd to ensure proper and safe operation of your model. Any part used which was manufactured by any firm other than Compass Model Ltd VOIDS all warranties of this product by Compass Model Ltd.

### Warranty Procedures

Mail all warranty information within 15 days of original purchase date. If service is required, send the component in question (if not missing) together with a photocopy of your bill of sale and an accurate description of the problem and part. Ship components fully insured and prepaid. Compass Model Ltd is not responsible for any shipping damages. We will, at our discretion, notify you of any costs involved, or ship it COD. You are required to pay all postage, shipping and insurance charges.

## R/C Helicopter Safety

A model helicopter must be built exactly in accordance with the assembly instructions. Compass Model Ltd has spent much time and efforts refining this product to make it reliable in operation and easy to build. Vibration and stress levels are high and all fasteners and attachments must be secure for safe operation. Safe operation is the responsibility of the builder/flyer and starts with careful construction and continues with selection and installation of reliable radio equipment and motor/engine. The need for safety is nowhere greater than at the flying field. A number of guidelines for safe flight have been developed by experienced flyers and are set down here. It is urged that they be read, understood and followed.

**Attention:** each country has his own security application which cannot be laid down here so prior to any flight request the rules to apply in your country/Flying field.

# Guidelines for Safe R/C Helicopter Flight

- Fly only at approved flying fields and obey field regulations.
- Follow frequency control procedures. Interference can be dangerous to all.
- Obtain assistance from experienced pilots.
- The Guidance provided by experienced pilots is valuable and sometimes necessary.
- Know your radio. Check all transmitter functions before each flight.
- Be aware that rotating blades are very dangerous and can cause serious injury.
- Never fly near or above spectators or other modelers.
- Do not fly r/c helicopter models near buildings, high voltage cables, trees or other obstacles.
- If a beginner, get help trimming the model first and flight training later.
- Don't "track" the main blades by holding the tail boom. This is a temptation to builders who cannot hover yet and is very dangerous.
- Follow all recommended maintenance procedures for model, radio and motor.
- Only turn off the radio after the engine is shut down.

## Necessary Items

In order to operate this model, you need to purchase the following items not kit-included.

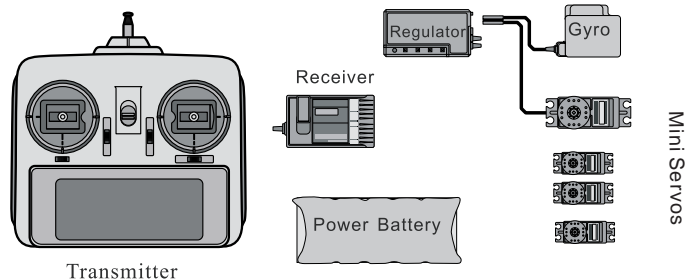
6 channel or up radio and receiver.

3 mini servos.

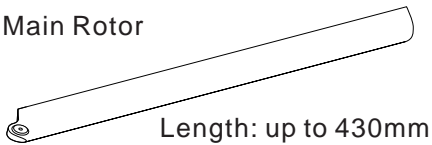
1 gyro with rudder servo.

6S LiPo battery 2100mah~3300mah.

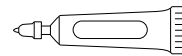
or 2 pack 3s LiPo battery with same capacity.



Main Rotor



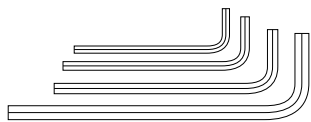
Threadlock



Grease



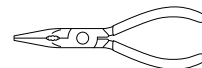
Bearing Retainer



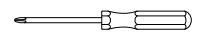
Hex Wrench Set  
(1.5mm,2mm,2.5mm,3mm)



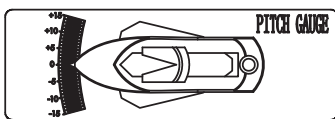
Cutter Knife



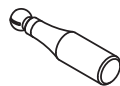
Needle Nose Pliers



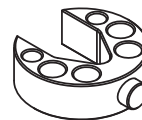
Screw Driver



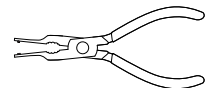
Pitch Gauge



Ball Link Sizing Tool



Swash Plate Tool



Ball Plier

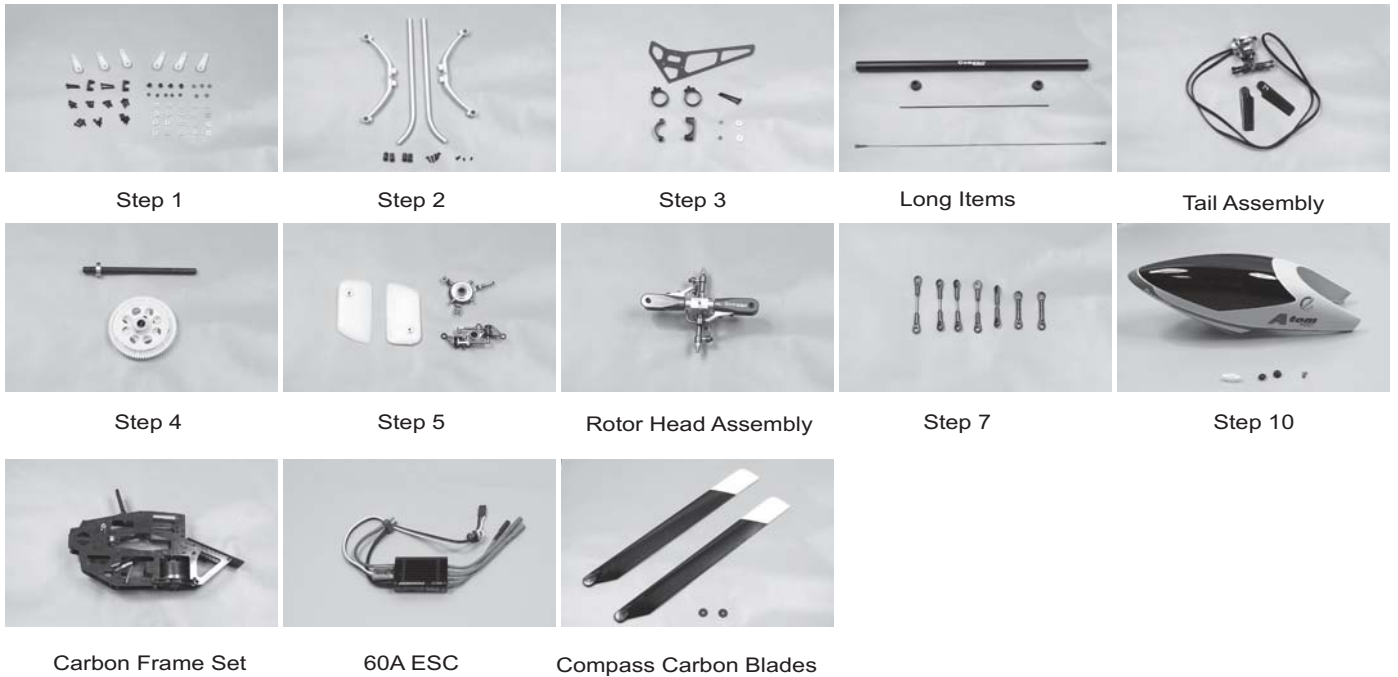
## Preassembly Information

When first opening your Atom kit, you will notice that all of the parts are packaged and numbered to coordinate with the assembly step numbers of this instruction manual. All small hardware (nuts, bolts, washers, etc.) for each step are packaged separately within the main parts bags. When beginning a section, you will need to open only the bag with the corresponding number to the section you are about to start. It is suggested that you place all of the hardware in an open container (e.g., servo case) during assembly so as not to lose any of the small parts. It may also be helpful to familiarize yourself with the various sizes of screws, bolts, nuts, etc., as illustrated in the appropriate assembly section before you begin assembly. In most cases, at the end of each assembly section, there should be no parts remaining. Great care has been taken in filling the bags with the correct quantity of parts and hardware for each section. However, occasional mistakes happen. In the event that you find a parts shortage or are in need of technical assistance, please contact your local Compass Model parts dealer.

# In The Box

This model is packed according to assembling steps. Do not open all the bags at one time.  
Open only one bag for each step of assembly when building.

## Atom 500



## Atom 500R Differences



# Symbols & assembling



Caution

Failure to follow these instructions may result in damage, personal injury or danger.



Use Blue Threadlock



Use Grease



Use AB Glue



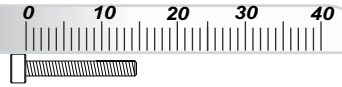
Use Bearing Retainer

- \* Always apply blue Threadlock when fixing Bolts on Metal parts.
- \* Always apply green retainer where bearings have to be fit into metal parts.
- \* Do not over-tighten self tapping screws into plastic parts or you will strip the threads!



# 1

## Servo



M2.5x16 Self Tapping Bolt X 4



M2.5x10 Self Tapping Bolt X 4



M2.5x8 Self Tapping Bolt X 8



2.5mm Washer X 16

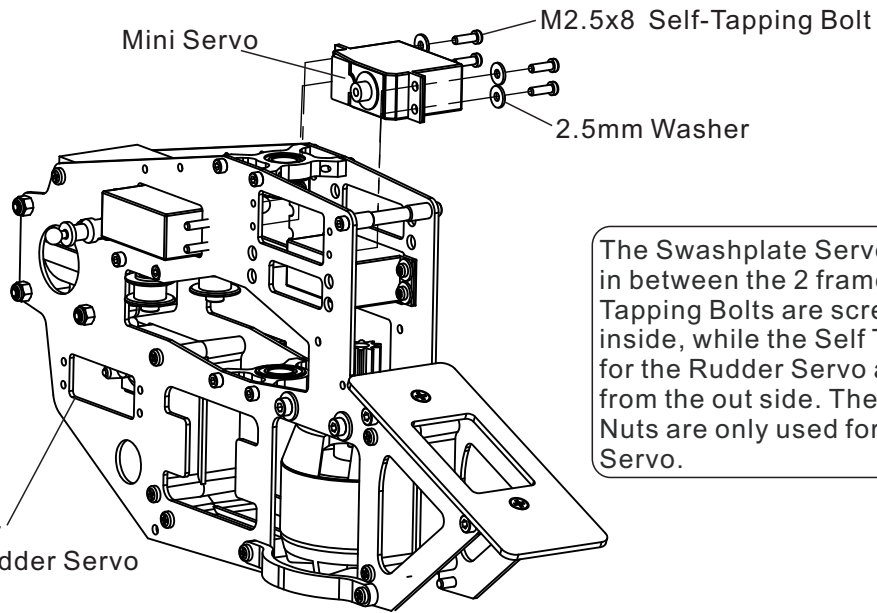


Plastic Spacer x 4



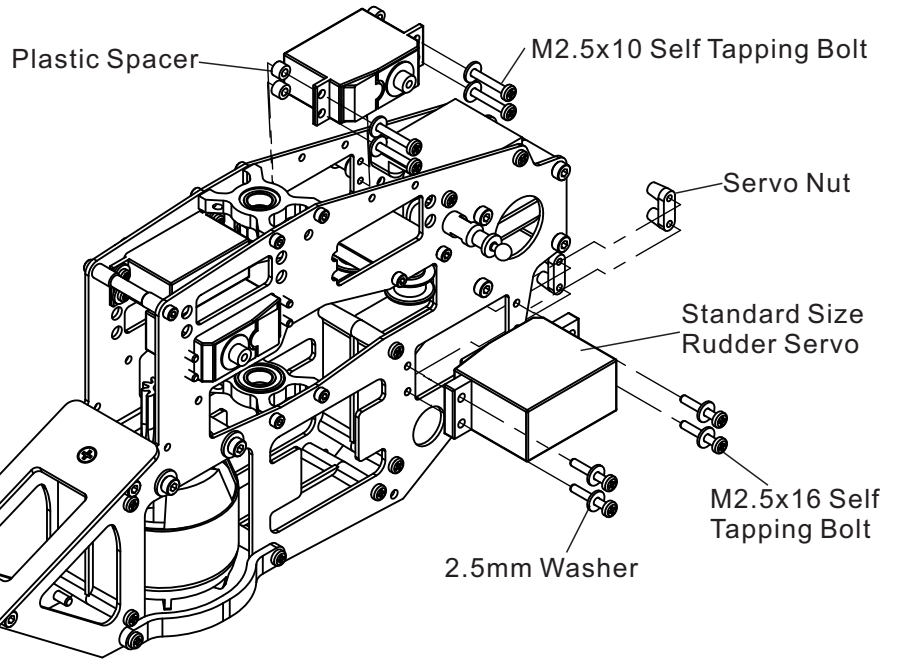
Servo Nut x 2

The Servo installation is done without the supplied Servo Rubbers.



The Swashplate Servos are installed in between the 2 frames. The Self Tapping Bolts are screwed from the inside, while the Self Tapping Bolts for the Rudder Servo are screwed from the out side. The supplied Servo Nuts are only used for the Rudder Servo.

The 4 Plastic Spacers are used to bring the Elevator Servo Arm in Line with the Swashplate Link Ball.



# 2

## Landing Gear



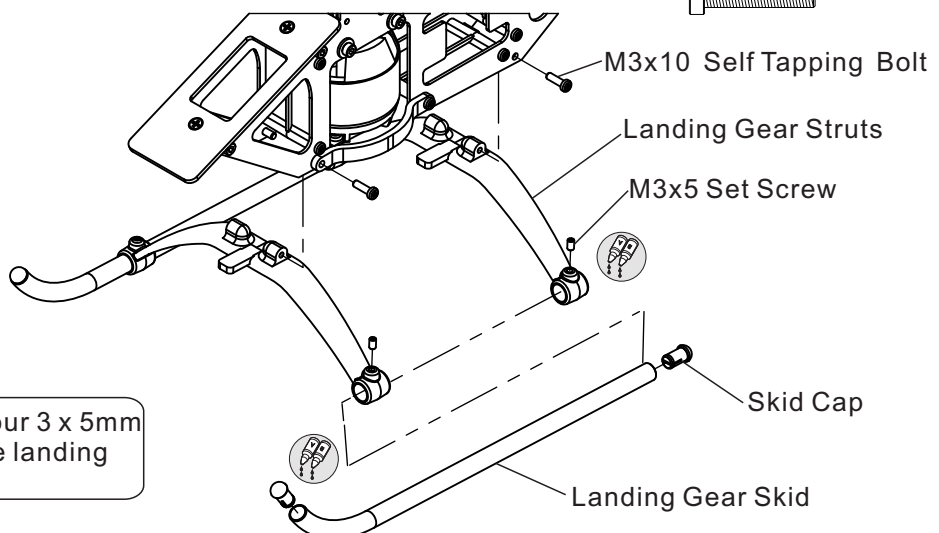
M3 x10 Self Tapping Bolt X 4



M3x5 Set Screw X 4

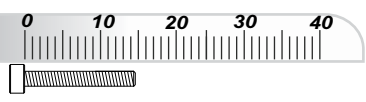
Use AB Glue






**Tip:** Do not over tighten the four 3 x 5mm set screws as it can damage the landing struts.




# 3

## Boom & Tail Rotor



-  M3 Washer x2
-  M3 Nylon Lock Nut x6
-  M2.5x6 Cap Head Bolt x2
-  M3x40 Cap Head Bolt x4
-  M2.5 x8 Self Tapping Bolt X 2


 **Crimping Belt damages the Tensile Cords and will result in premature failure.**

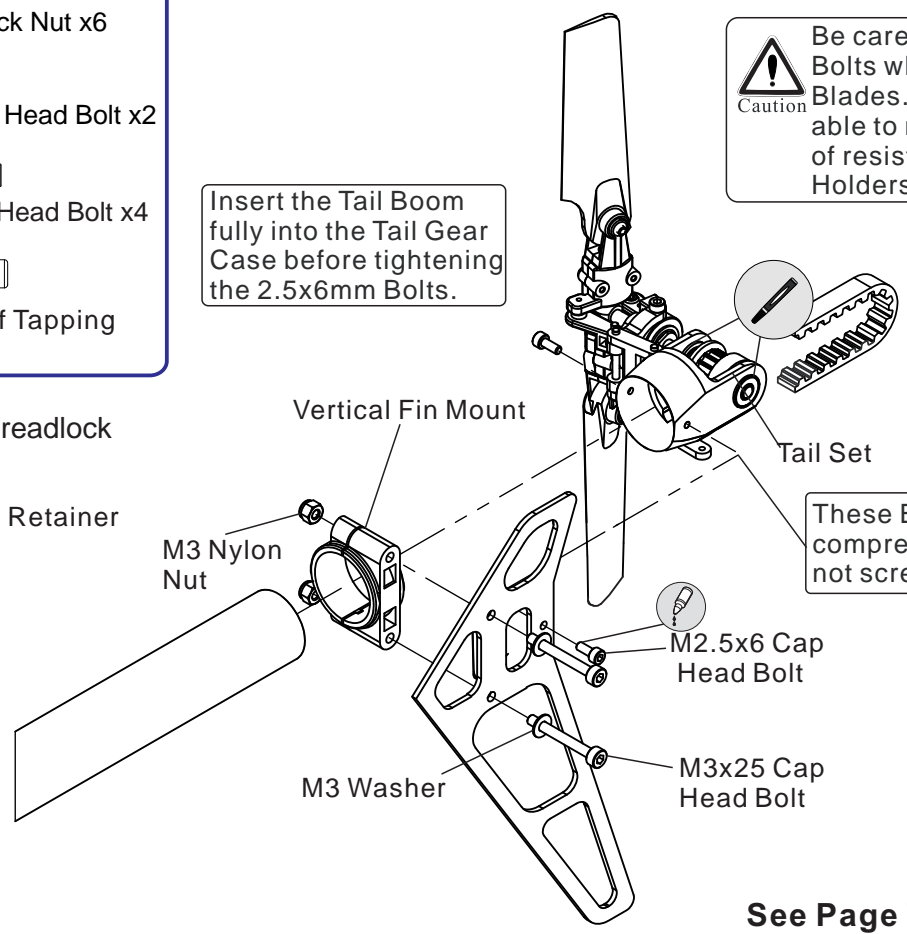
 **Be careful not to over tighten the Bolts when attaching the Tail Rotor Blades. The Tail Blades should be able to move with a slight amount of resistance within the Tail Blade Holders.**

Insert the Tail Boom fully into the Tail Gear Case before tightening the 2.5x6mm Bolts.

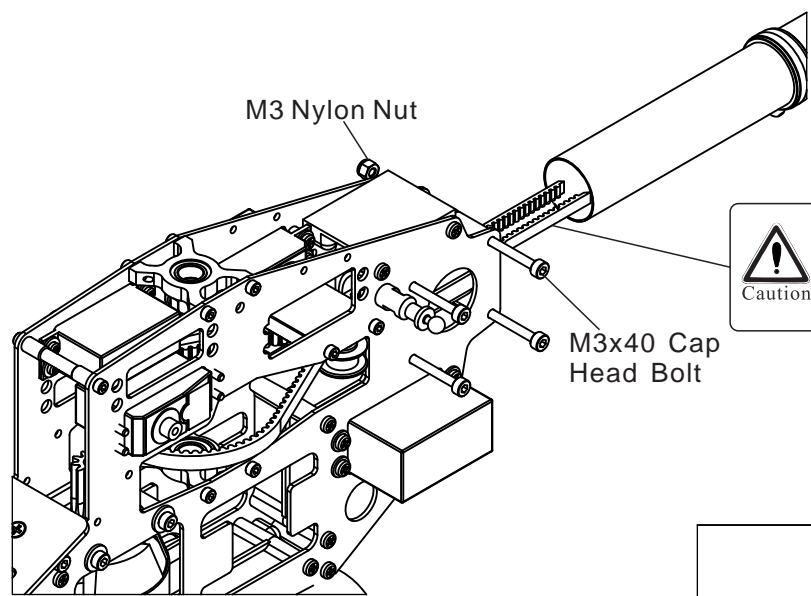
These Bolts are only used to compress the boom, please do not screw them the whole way in.


 Use Threadlock

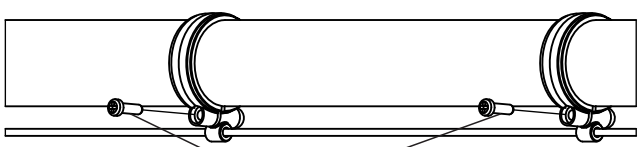
 Bearing Retainer



**See Page Team Tips!**



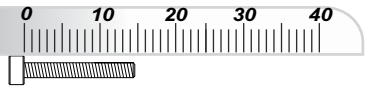
 **Slide the Tail Boom through the Tail Boom Mount. Twist the Tail Belt 90° to the right before inserting it to the Idler Pulleys.**









M2.5x8 Self Tapping Bolt

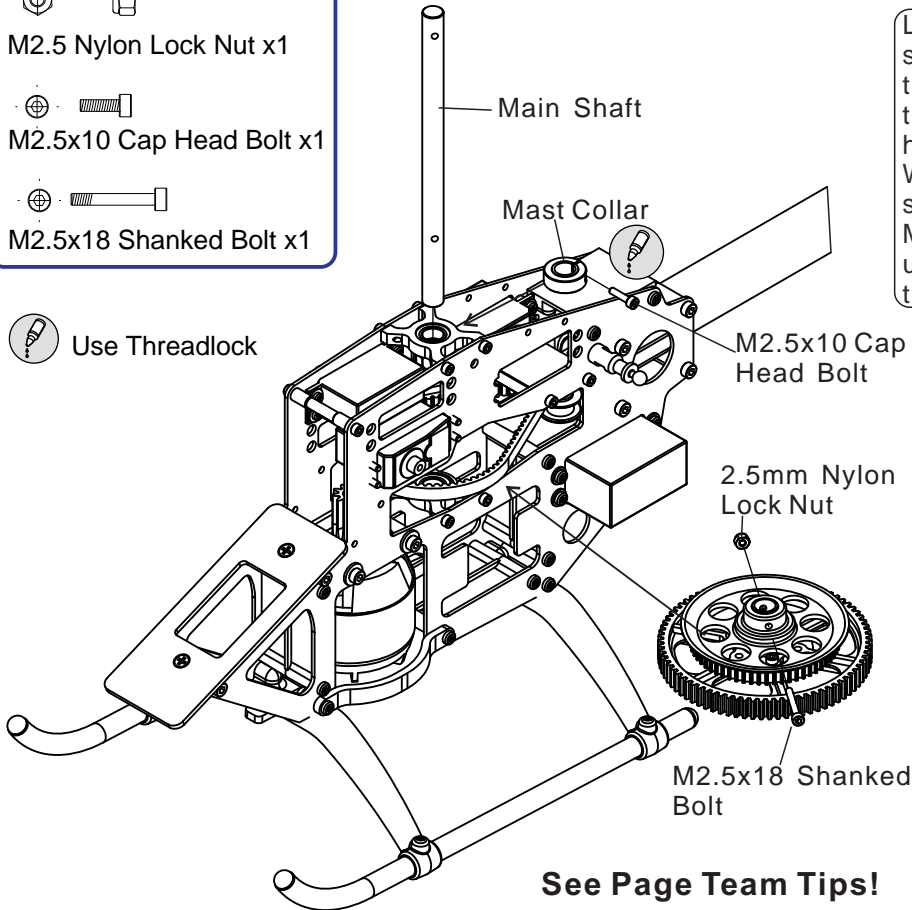
# ④

## Main Gear



-    
M2.5 Nylon Lock Nut x1
-    
M2.5x10 Cap Head Bolt x1
-    
M2.5x18 Shanked Bolt x1

 Use Threadlock

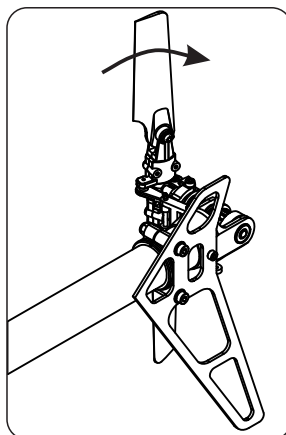
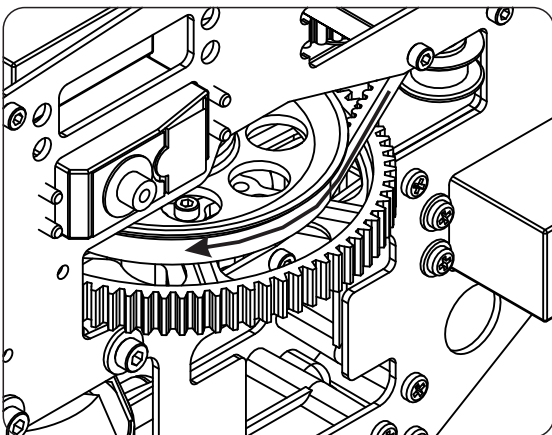
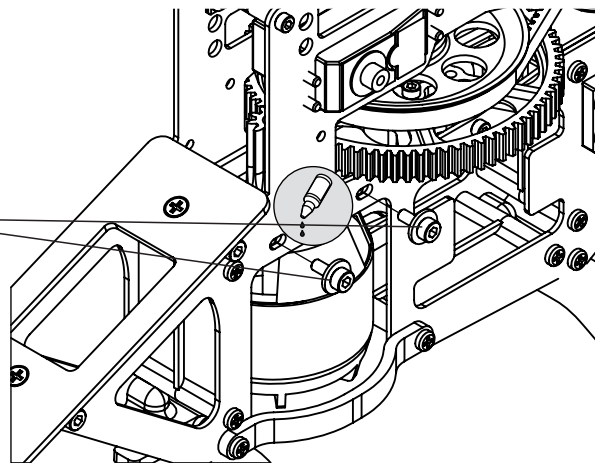


Lift the Main Shaft Collar upwards and secure to the Main Shaft by slightly tighten the Lock Screw. It is necessary to align the Lock Screw through the hole in the side of the Main Frame. While securing the Lock Screw, make sure that you are pushing down on the Main Shaft so that there will be no up/down play in the Main Shaft once the collar is secured.

**Gear Backlash Adjustment:**  
For smooth operation and performance, it is necessary to adjust the Gear Backlash properly. Excess Gear Backlash can cause premature Gear Wear and damage. Insufficient Gear Backlash can cause vibration, as well as overheating of the Motor and Speed Controller. Adjust the Gear Backlash by placing one piece of paper between the Gears to set the distance. When the Bolts are secure, remove the paper and test the Gear Backlash to insure that there is a slight amount of free movement between the gears.

**See Page Team Tips!**

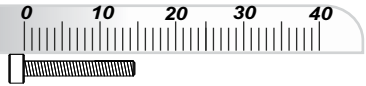
To adjust the correct backlash between the Motor Pinion and the Main Gear loose the 4 Motor Mount Bolts, then fix them tightly with Threadlock.



Check the correct rotation of the Tail Rotor Blades. The Blade on the Top moves to the rear. If the Tail Rotor rotates incorrectly, simply pull out the main shaft and twist the Belt in the other direction.

5

# Rotor, Washout & Swashplate



M2.5 x 8 Self Tapping Bolt X 4



M3x3 Set Screw x 8



2.5mm Nut x 1

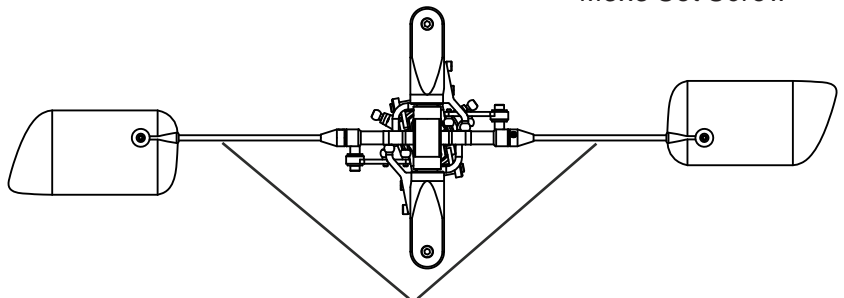
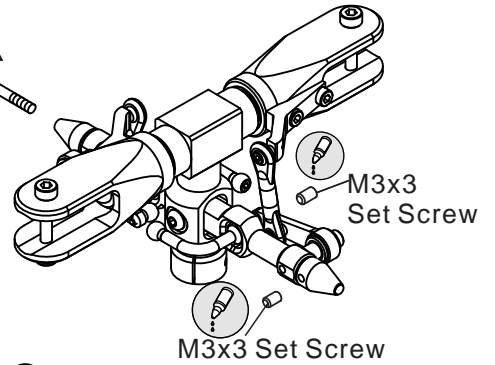


M2.5x16 Shanked Bolt x 1

 Use Threadlock

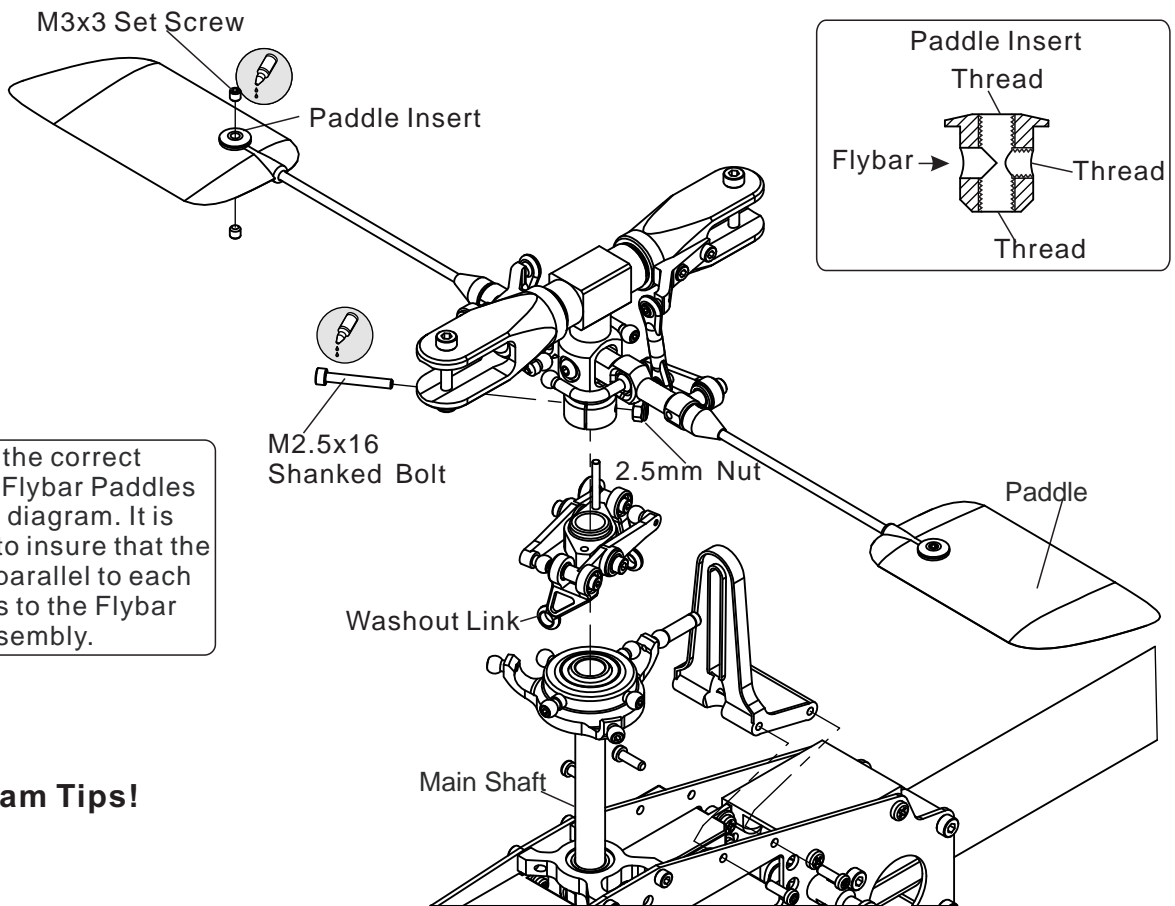
In this step, push the Flybar trough the Flybar Collar, Flybar Holder and the Flybar Control Arms using the 3x3mm set screws to fix the Arms and Collars onto the Flybar, care that both sides of the Flybar are of equal length.

Push the Flybar in



See Page Team Tips!

Adjust so that each side has exactly the same length



Be sure to note the correct direction of the Flybar Paddles as shown in the diagram. It is very important to insure that the Paddles are in parallel to each other, as well as to the Flybar Control Arm Assembly.

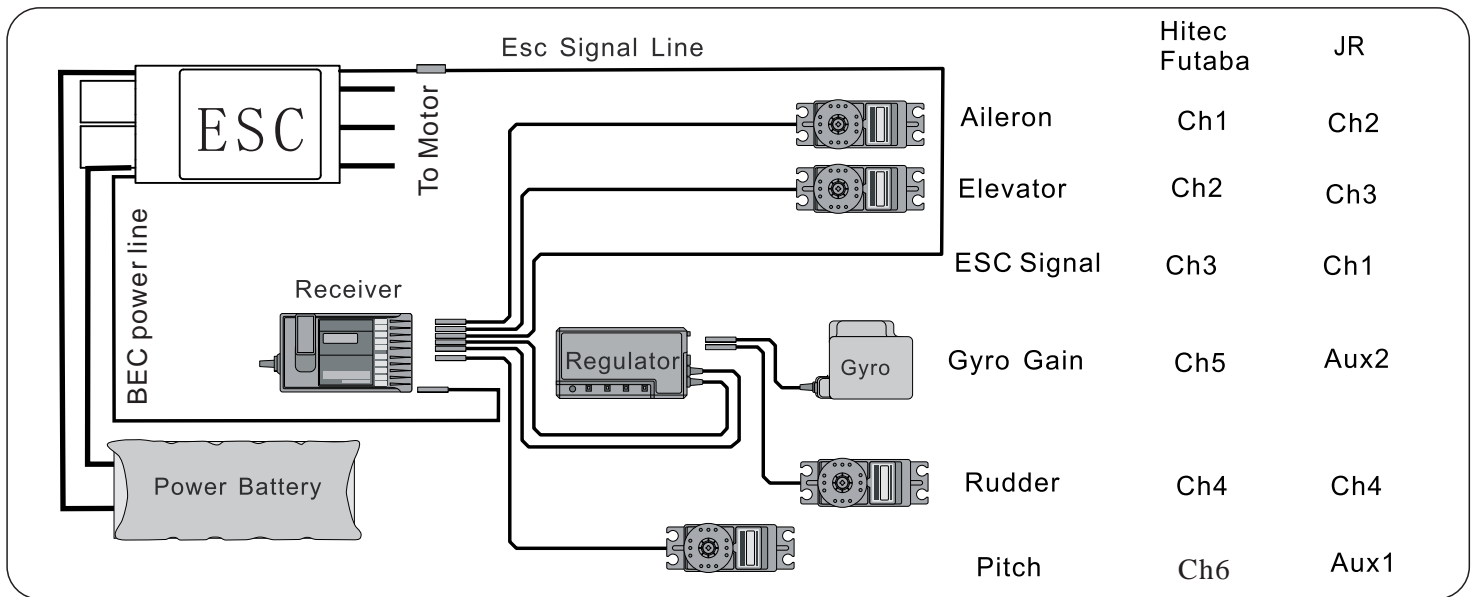
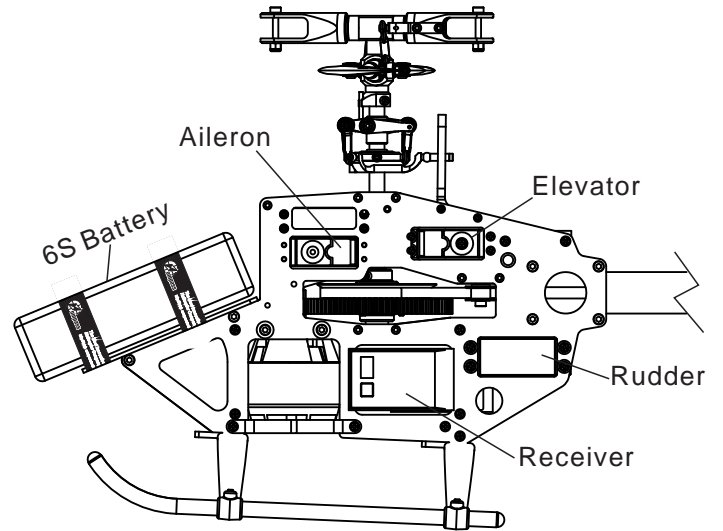
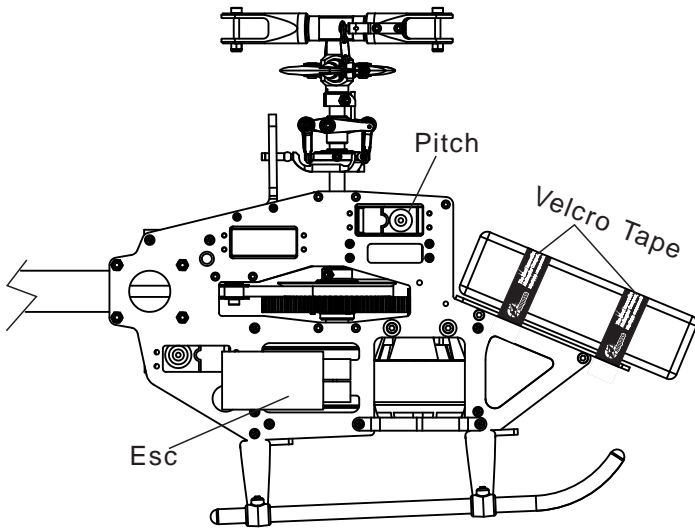
See Page Team Tips!

M2.5 x 8 Self Tapping Bolt



# ⑥

## Equipment illustration

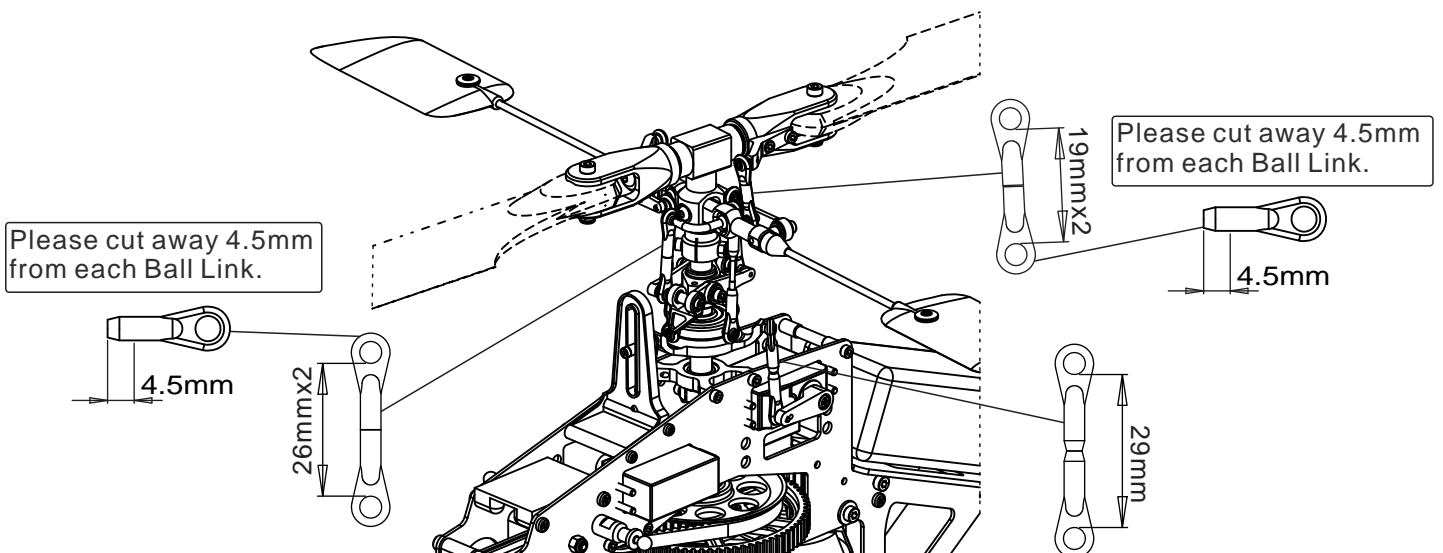


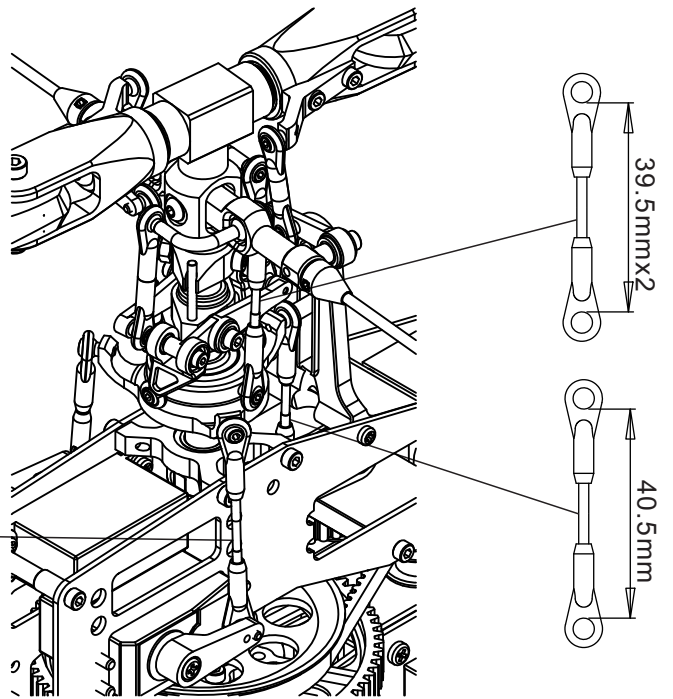
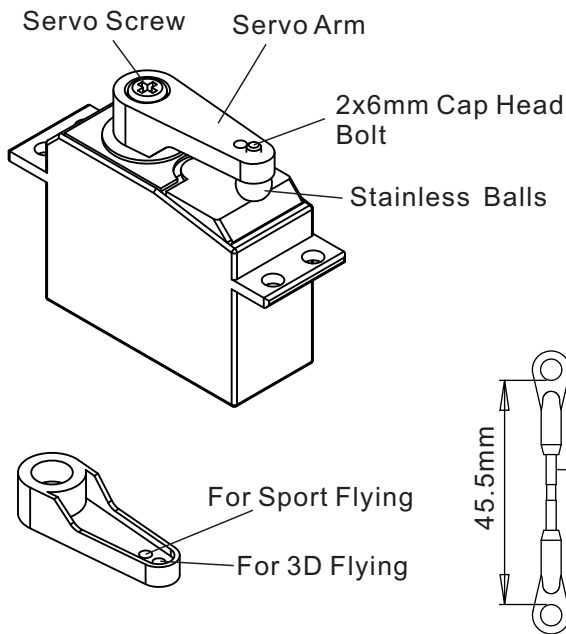
# ⑦

## Linkage



The following Linkage lengths indications are basic values. PLEASE BE AWARE THAT THEY COULD VARY depend on used Servos and Arms. Some fine adjustments are still needed in following setup steps.

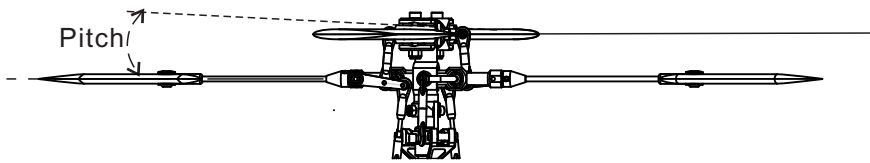




**Caution** Do not apply plier to resize Ball Links. Pliers could cause hidden damage to Ball Links and result in failure when operation.

Compass Model Ball Links are build up on the tight side this allows you to adjust them to your personal needs. For this we suggest to use a Ball Link sizing tool.

## 8 Setup 0 10 20 30 40

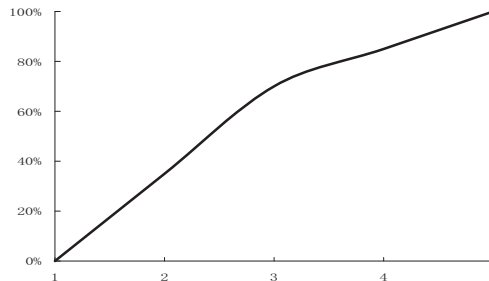


The Atom 500 total pitch range is about 26°. If you set the pitch too high than flight time will be shortened.

### General Flight

	Throttle	Pitch
5	100%	13 deg
4	85%	
3	70%	4~5 deg
2	35%	
1	0%	-4 deg

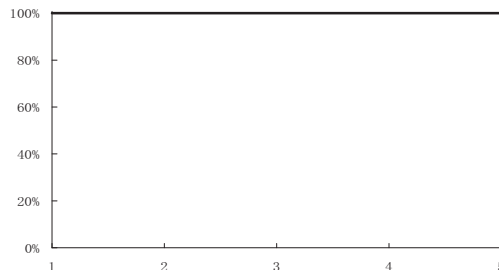
### Throttle Curve



### 3D Style

	Throttle	Pitch
5	100%	13 deg
4	100%	6.5 deg
3	100%	0 deg
2	100%	-6.5 deg
1	100%	-13 deg

### Throttle Curve

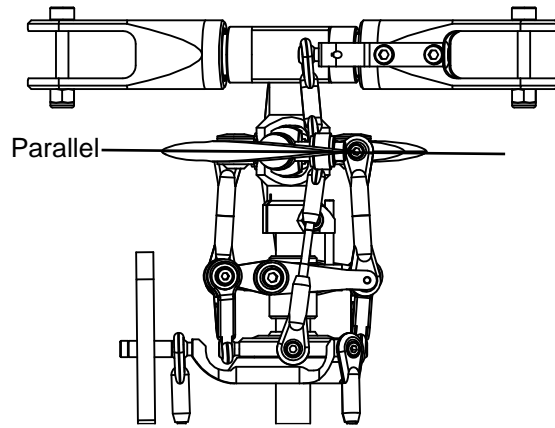


### Swash Type Setting

JR		Futaba
Swash Type		SWH
S3 120		SR3
Aile	Elev	Pitch
45%	50%	45%

### Esc Setup

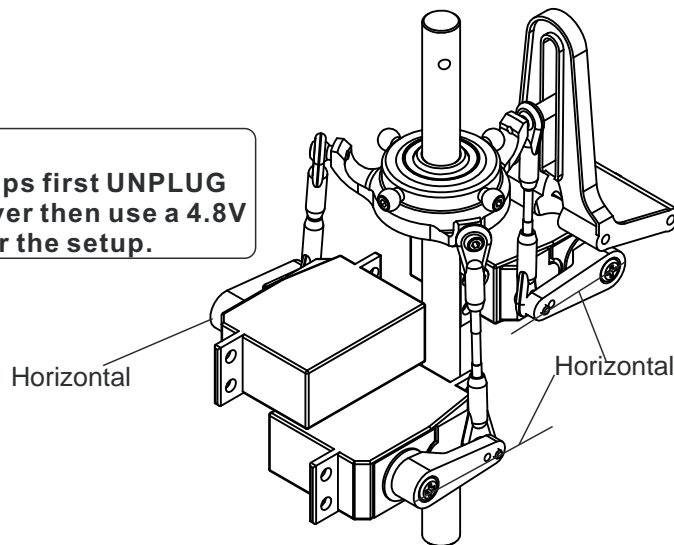
Timing: 22.5 deg  
No Brakes  
Very Soft Start

**A**

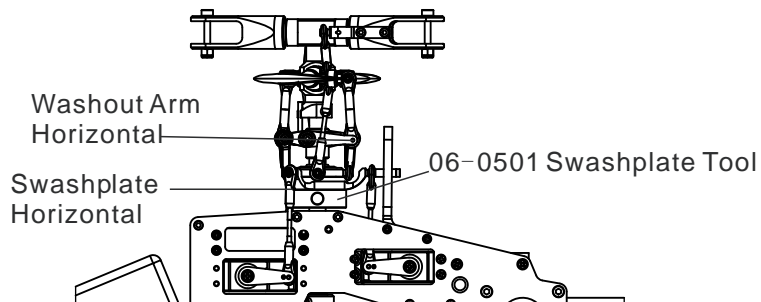
Make sure that the Flybar Control Arms and Paddles are in line as shown in the diagram.

**B**

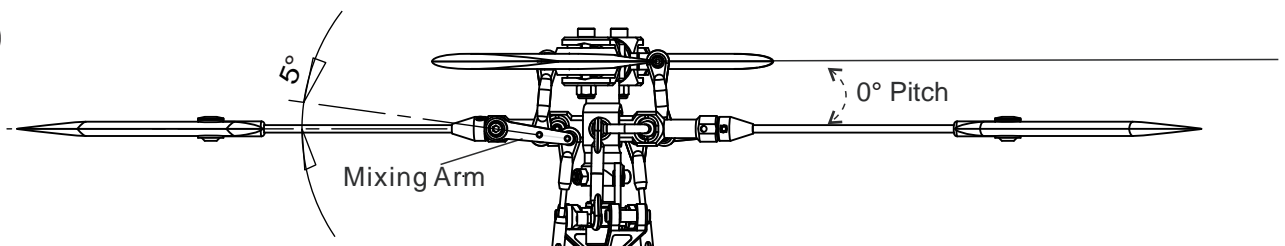
**Attention:**  
To do all Basic Setups first **UNPLUG**  
ESC from the receiver then use a 4.8V  
Receiver Battery for the setup.



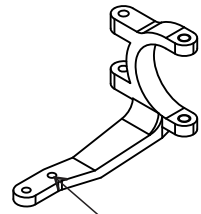
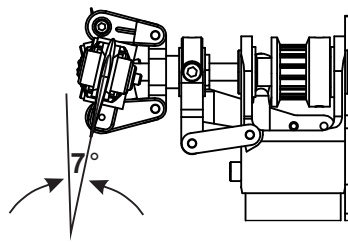
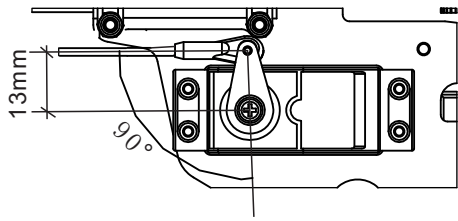
Turn on the Transmitter, set the Throttle Stick into center position for 0° Pitch. Use the Subtrim menu to adjust the 3 Swash Servo Arms to level.

**C**

Level the Swashplate by adjusting the links from the Servo Arms to the Swashplate. Use a Compass Swashplate Tool as guide. Then set level the Washout Arms.

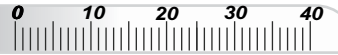
**D**

By adjusting the Links between Swashplate and Mixing Arms set the Mixing Arms to a 5° downward position. Adjust the Links between the Mixing Arms and the Main Blade Holder to set the Main Blade Pitch to 0°.

**E**

Use this Hole for Tail Link Ball

With Rudder Stick in middle position, set the Rudder Servo Arm at 90° to the Tail Control Link. Set the Tail Blades to 7° Pitch.

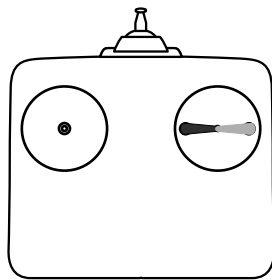
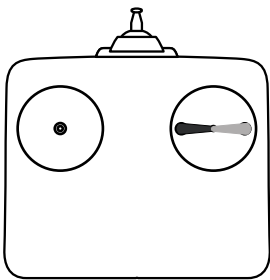
**9****Servo Direction Check**

Turn the Transmitter on, your position has to be right behind the helicopters Tail. Make sure that the Swashplate Mode is set to CCPM 120°. Move the Sticks according to the drawings and check the reaction of the Swashplate and the Tail Pitch Plate. Check as well your Throttle settings. Adjust your Transmitter settings accordingly.

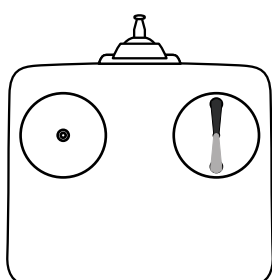
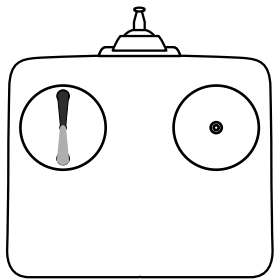
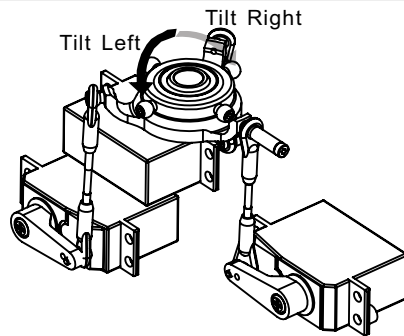
Mod 1

Mod 2

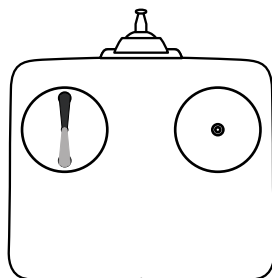
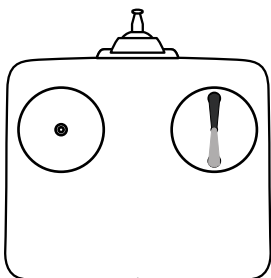
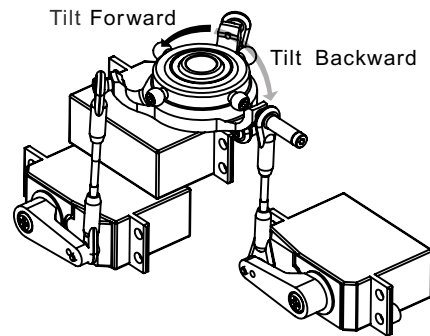
Swashplate Reaction



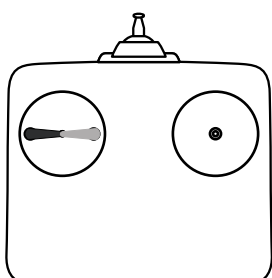
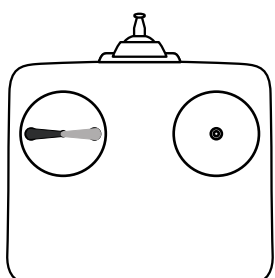
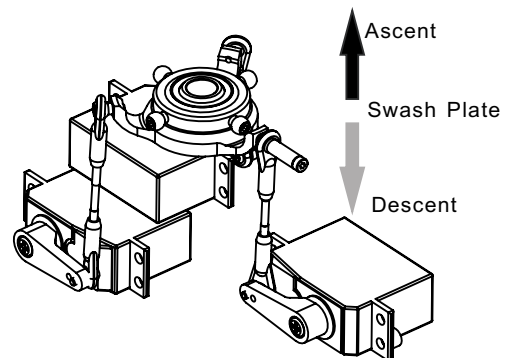
Aileron Check



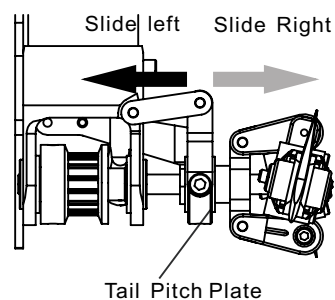
Elevator Check



Pitch Check



Rudder Check



10

## Canopy

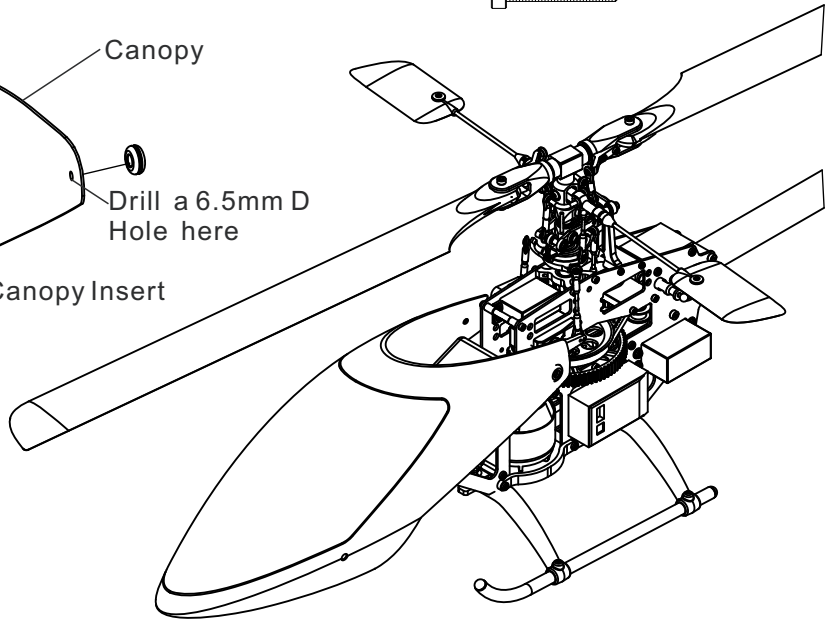
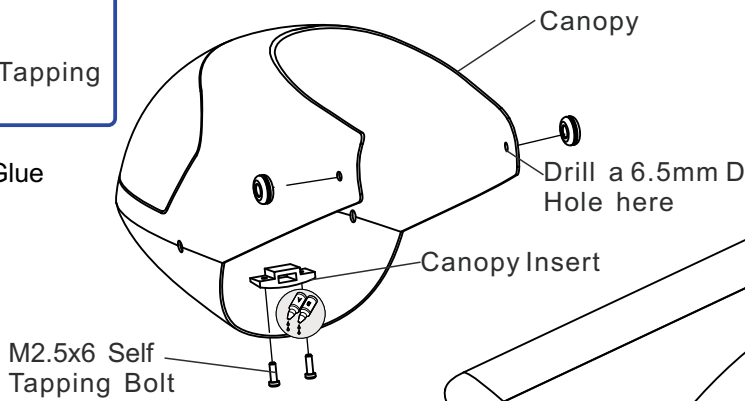
0 10 20 30 40



M2.5x6 Self Tapping Bolt X 2



Use AB Glue

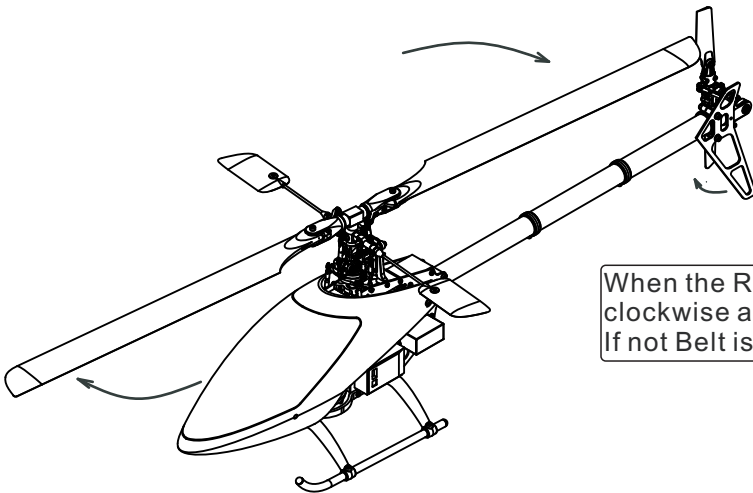


Place the Canopy onto the Frames and mark the right position of the Canopy Inserts. Apply AB Glue to fix the Canopy Insert onto the canopy.

11

## Rotor Direction

0 10 20 30 40



When the Rotor spins clockwise the Tail Blades should turn clockwise as well watching the Tail Rotor from the Tail Fin side. If not Belt is installed the wrong way and has to be corrected.

12

## Pre Flight Check

0 10 20 30 40

1. Ensure that receiver & transmitter battery are fully charged.
2. Check all bolts and screws are tight.
3. Repeat step 9 to check all servo functions are correct.
4. Ensure tail and gyro direction are correctly set.
5. Check that main blades, paddles and tail blades are installed in the right direction.
6. Check that there are no missing or damaged parts, never fly with any damaged parts.
7. Make sure all electronic devices are firmly fastened and connected.
8. Before starting the motor, make sure the IDLE switch is OFF and throttle stick is in the low position.
9. Only turn off the transmitter after turning off the receiver.



## Team Tips

### General:

The Ball Links on the Atom need to be resized. These Ball Links will NOT break in over time. they will stay tight and will cause unwanted interactions.

### Step 3:

It is very important to resize the Ball Links for smooth travel, especially on the tail; because issues like tail wag, sluggish tail, or inconsistent Piro-rate will occur.

To improve '3D' Tail Rotor authority we suggest doing the "Tail Blade Grip Flip". The result is a increased stability in 3D flying.

### Step 4:

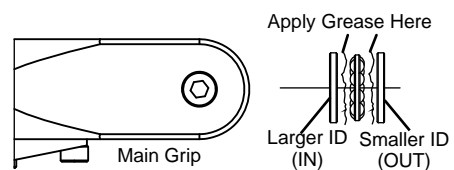
It is vital not to over tighten the Main Gear Bolt, or it can cause the Autorotation Gear to slightly warp. This can cause a premature Belt failure, or reduce the lifetime of the Belt.

### Step 5:

Leave About 0.1 mm space between the Flybar Collar and the Flybar Holder, this avoids the Flybar to snap when flying.

### Thrust Bearing Direction

Main grips are factory preassembled; in case of reassembling make absolutely sure you use the correct "ID" ring at the correct position. Place the large ID Towards the Main Shaft and the small I.D. Towards the Blades during assembly.





# Parts List

## Atom 500

Version 2.5/2009



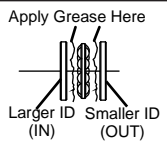
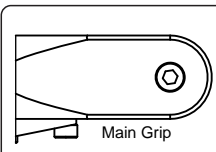
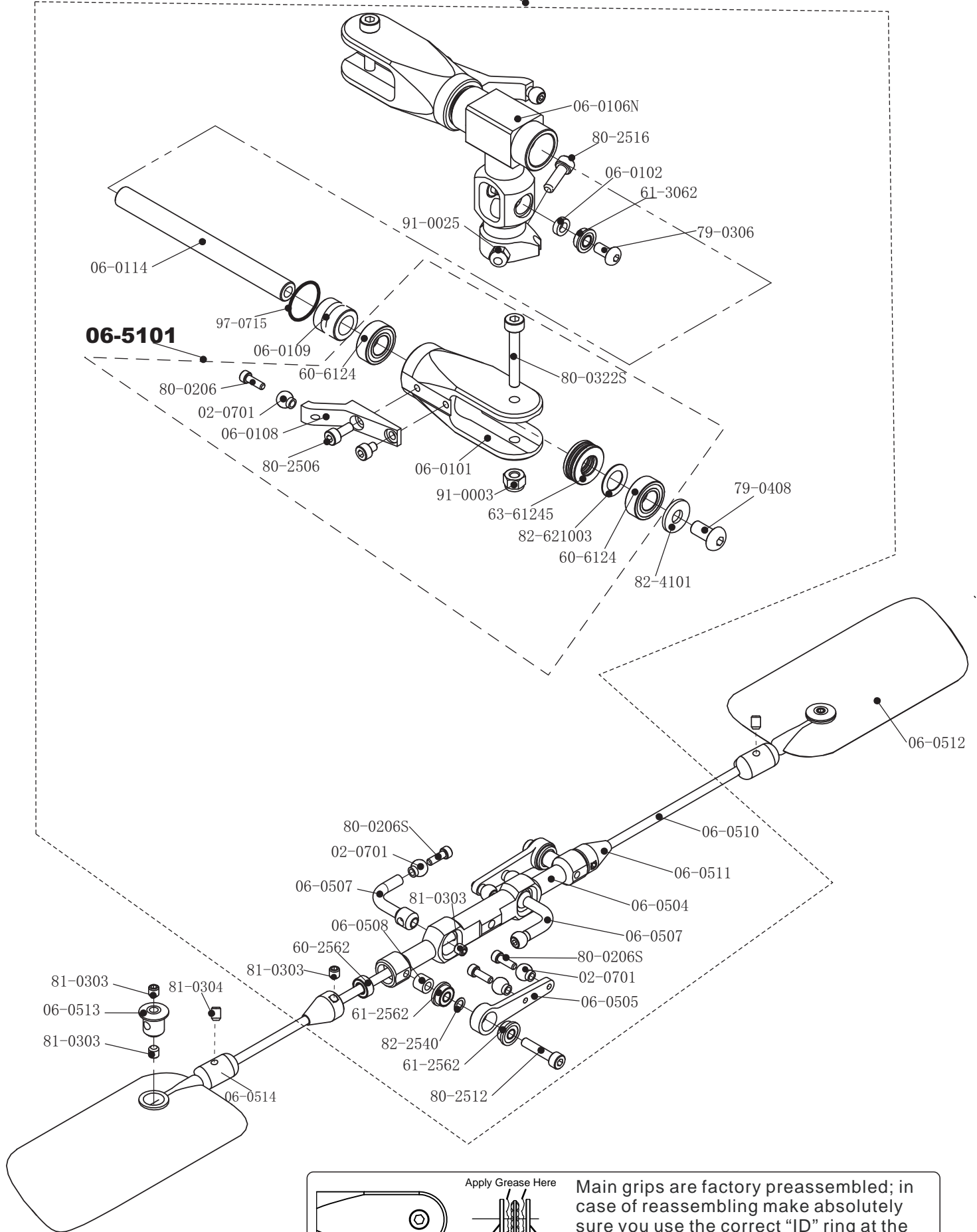
How to order your parts!

1. Check part number on the drawing
2. Use the part number to find the ORDER number on the list
3. Only use ORDER number for your parts order

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As we continue to improve our products, this part list may not reflect all recent product amendments.  
For more information, please refer to [www.compassmodel.com](http://www.compassmodel.com)

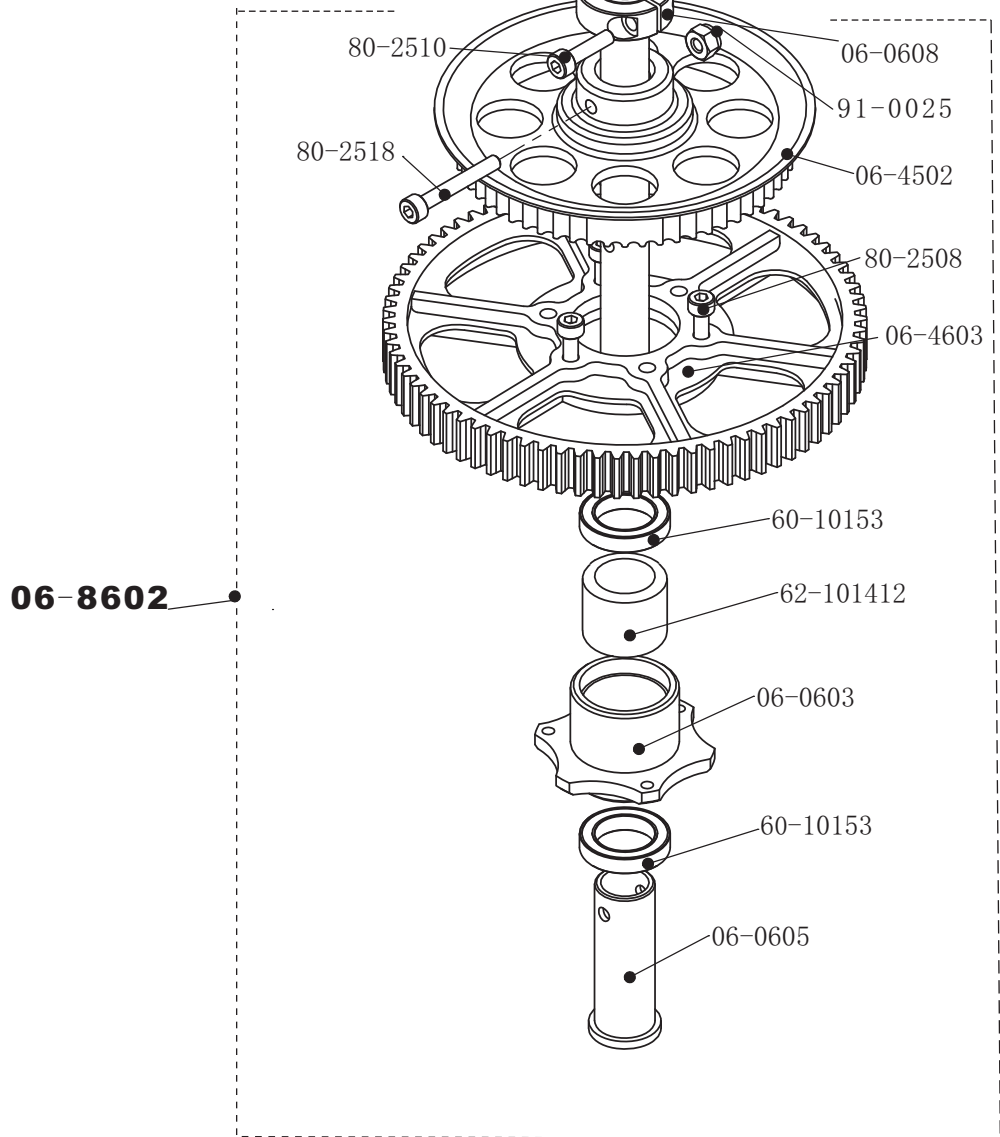
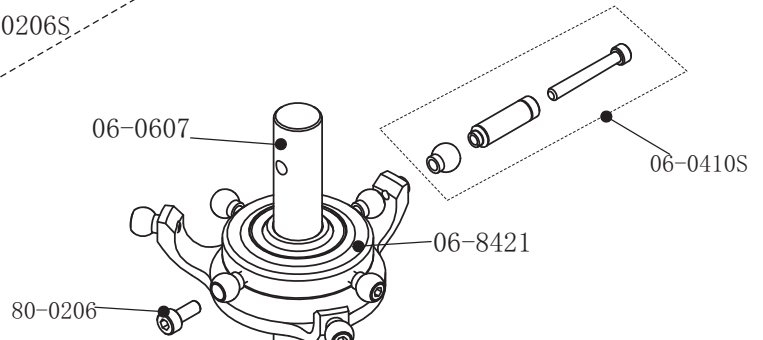
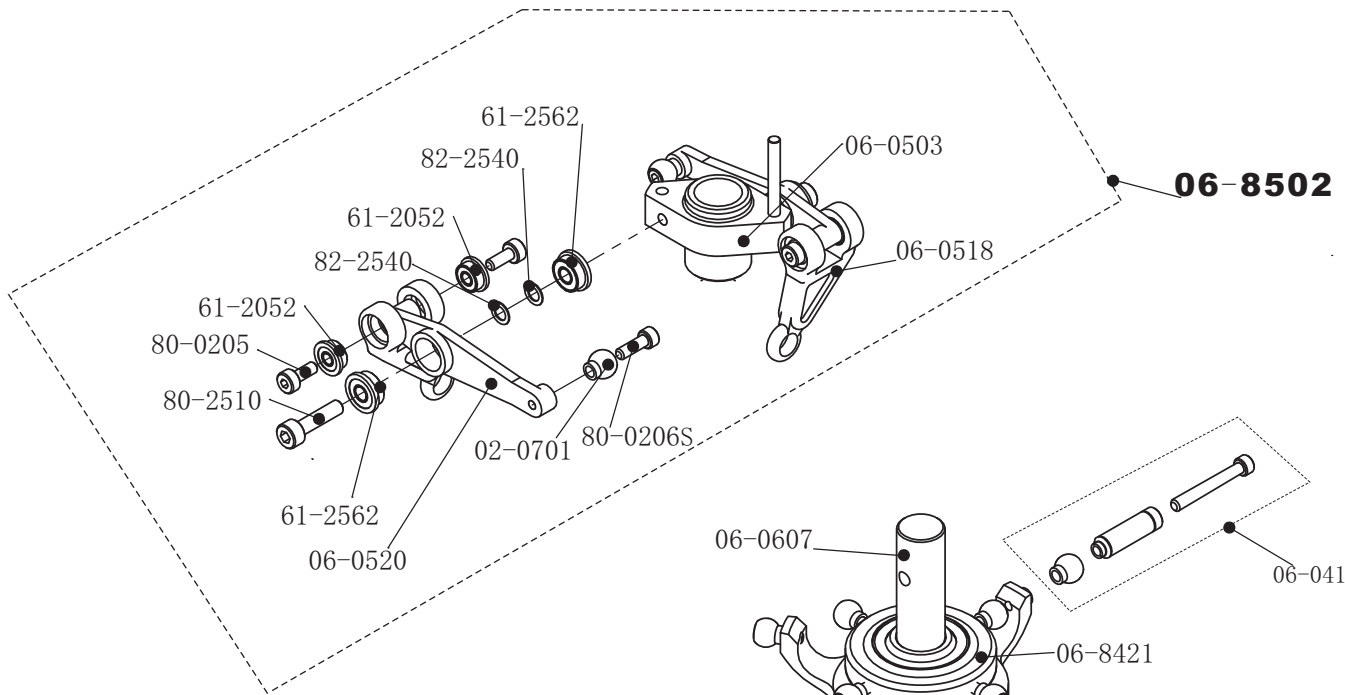
06-8104



**Thrust Bearing Direction**

Main grips are factory preassembled; in case of reassembling make absolutely sure you use the correct "ID" ring at the correct position. Place the large ID Towards the Main Shaft and the small I.D. Towards the Blades during assembly.

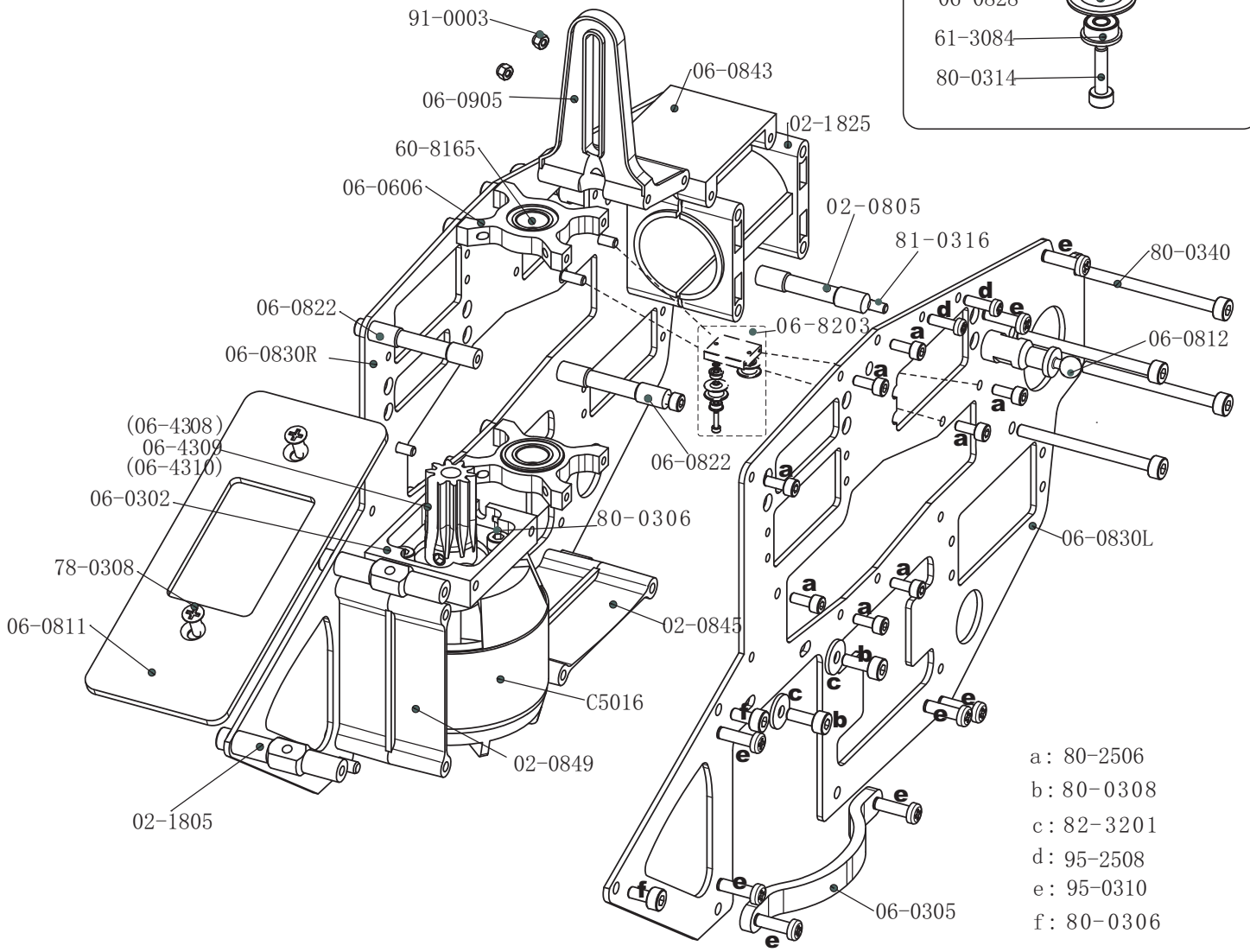
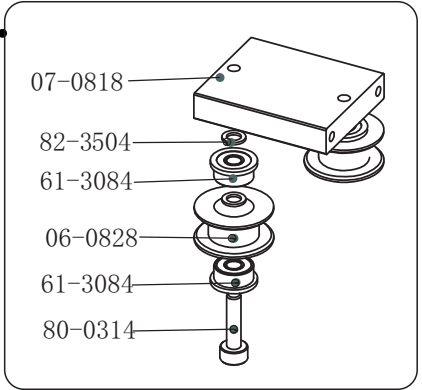
<b>Part No.</b>	<b>Part Description</b>	<b>Order No.</b>	<b>Order Description</b>	<b>Remark</b>
02-0701	Stainless Link Ball	<b>02-0701</b>	Stainless Link Balls	10 pcs/bag
06-0101	Main Blade Holder	<b>06-5101</b>	Main Blade Holder set (Atom 500)	1 set/bag
06-0102	Rotor Hub Washer	<b>06-0106Z</b>	Rotor Hub set (Atom 500)	1 set/bag
06-0106N	Rotor Hub	<b>06-0106Z</b>	Rotor Hub set (Atom 500)	1 set/bag
06-0108	Main Blade Holder Arm	<b>06-0108S</b>	Main Blade Holder Arm set (Atom 500)	2 set/bag
06-0109	Delrin Dampner	<b>06-0109</b>	Delrin Dampner (Atom 500)	2 pcs/bag
06-0114	Spindle Shaft	<b>06-0114</b>	Spindle Shaft set (Atom 500)	3 pcs/bag
06-0504	Flybar Holder	<b>06-0504</b>	Flybar Holder w. Bearings (Atom 500)	1 set/bag
06-0505	Mixing Arm	<b>06-0505Z</b>	Mixing Arm set (Atom 500)	2 set/bag
06-0507	Flybar Control Arm	<b>06-0507</b>	Flybar Control Arm set (Atom 500)	2 pcs/bag
06-0508	Mixing Arm Collar	<b>06-0505Z</b>	Mixing Arm set (Atom 500)	2 pcs/bag
06-0510	Flybar	<b>06-0510</b>	Flybar set (Atom 500)	3 pcs/bag
06-0511	Flybar Collar	<b>06-0511</b>	Flybar Collar set (Atom 500)	1 set/bag
06-0512	Paddle 11gr (default)	<b>06-0512H</b>	Paddle set 11g default (Atom 500)	1 set/bag
	Paddle 7gr (3D)	<b>06-0512L</b>	Paddle 7gr 3D (Atom 500)	1 set/bag
06-0513	Paddle Insert	<b>06-0512H</b>	Paddle Insert set (Atom 500)	1 set/bag
06-0514	Flybar Weight (Atom 500R)	<b>06-0514S</b>	Flybar Weight set (Atom 500R)	1 set/bag
06-5101	Main Blade Holder complete	<b>06-5101</b>	Main Blade Holder complete set (Atom 500)	1 set/bag
06-8104	Rotor Complete	<b>06-8104</b>	Rotor set complete w. Flybarholder (Atom 500)	1 set/bag
60-2562	Ball Bearing 2.5x6x2.5	<b>60-2562</b>	Ball Bearings 2.5x6x2.5	2 pcs/bag
60-6124	Ball Bearing 6x12x4	<b>60-6124</b>	Ball Bearings 6x12x4	2 pcs/bag
61-2562	Flanged Bearing 2.5x6x2.6	<b>61-2562</b>	Flanged Bearings 2.5x6x2.6	4 set/bag
61-3062	Flanged Bearing 3x6x2	<b>61-3062</b>	Flanged Bearings 3x6x2	4 set/bag
63-61245	Thrust Bearing 6x12x4.5	<b>63-61245</b>	Thrust Bearings 6x12x4.5	2 pcs/bag
79-0306	Button Head Bolt M3x6	<b>79-0306</b>	Button Head Bolts M3x6	10 pcs/bag
79-0408	Button Head Bolt M4x8	<b>79-0408</b>	Button Head Bolts M4x8	10 pcs/bag
80-0206S	Cap Head Bolt 2x6 (Link Balls)	<b>80-0206S</b>	Cap Head Bolts 2x6 (Link Balls)	10 pcs/bag
80-0322S	Cap Head Bolt M3x22 (shanked)	<b>80-0322s</b>	Cap Head Bolts M3x22 (shanked)	2 pcs/bag
80-2506	Cap Head Bolt M2.5x6	<b>80-2506</b>	Cap Head Bolts M2.5x6	10 pcs/bag
80-2512	Cap Head Bolt M2.5x12	<b>80-2512</b>	Cap Head Bolts M2.5x12	10 pcs/bag
80-2516	Cap Head Bolt M2.5x16	<b>80-2516</b>	Cap Head Bolts M2.5x16	2 pcs/bag
81-0303	Set Screw M3x3	<b>81-0303</b>	Set Screws M3x3	10 pcs/bag
81-0304	Set Screw M3x4	<b>81-0304</b>	Set Screws M3x4	10 pcs/bag
82-2540	Washer 2.5x4.1x0.2	<b>82-2540</b>	Washers 2.5x4.1x0.2	10 pcs/bag
82-4101	Washer 4.1x10x1	<b>82-4101</b>	Washers 4.1x10x1	10 pcs/bag
82-621003	Washer 6.2x10x0.3 (spindle)	<b>82-621003</b>	Washers 6.2x10x0.3 (spindle)	10 pcs/bag
91-0003	Nylon Nut M3	<b>91-0003</b>	Nylon Nuts M3	10 pcs/bag
97-0715	Rubber O-Ring 10x7x1.5	<b>97-0715</b>	Rubber O-Ring set10x7x1.5	4 pcs/bag



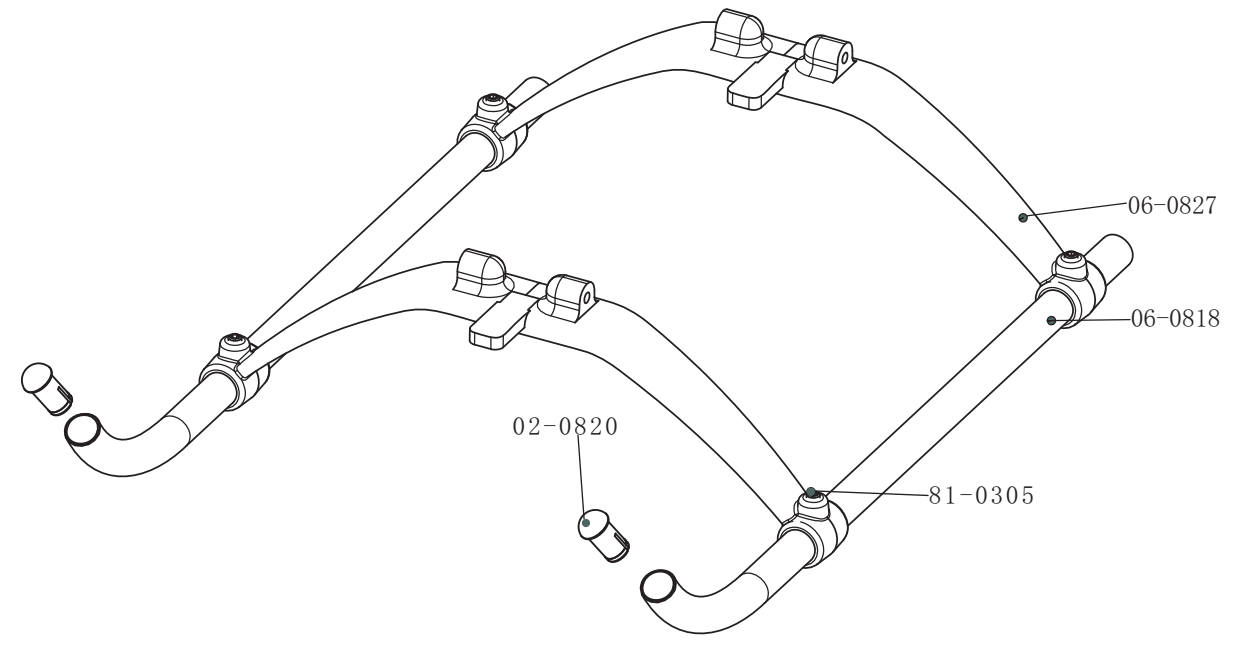


<b>Part No.</b>	<b>Part Description</b>	<b>Order No.</b>	<b>Order Description</b>	<b>Remark</b>
02-0701	Stainless Link Ball	<b>02-0701</b>	Stainless Link Balls	10 pcs/bag
06-0410S	Swashplate Pin	<b>06-0410S</b>	Swashplate Pin Set (Atom 500)	1 set/bag
06-0503	Washout Base	<b>06-0503S</b>	Washout Base set (Atom 500)	1 set/bag
06-0518	Washout Link	<b>06-0518</b>	Washout Links (Atom 500)	2 pcs/bag
06-0520	Washout Control Arm	<b>06-0520Z</b>	Washout Control Arm set (Atom 500)	1 set/bag
06-0603	Autorotation Hub	<b>06-0603Z</b>	Autorotation Hub w. Bearing (Atom 500)	1 set/bag
06-0605	Autorotation Sleeve	<b>06-0605</b>	Autorotation Sleeve (Atom 500)	1 pcs/bag
06-0607	Main Shaft (Ø 8mm)	<b>06-0607</b>	Main Shaft (Atom 500 Ø 8mm)	1 pcs/bag
06-0608	Main Shaft Lock Clamp (Ø 8mm)	<b>06-0608S</b>	Main Shaft Lock Clamp set (Atom 500 Ø 8mm)	1 set/bag
06-4502	Main Pulley	<b>06-4502</b>	Main Pulley (Atom 500)	1 pcs/bag
06-4603	Main Gear	<b>06-4603</b>	Main Gear (Atom 500)	1 pcs/bag
06-8421	Swashplate	<b>06-8421</b>	Swashplate complete (Atom 500)	1 set/bag
06-8502	Washout complete	<b>06-8502</b>	Washout set complete (Atom 500)	1 set/bag
06-8602	Main Gear w. Pulley Assembly	<b>06-8602</b>	Main Gear w. Pulley Assembly (Atom 500)	1 set/bag
60-10153	Ball Bearing 10x15x3	<b>60-10153</b>	Ball Bearings 10x15x3	2 pcs/bag
61-2052	Flanged Bearing 2x5x2.5	<b>61-2052</b>	Flanged Bearings 2x5x2.5	4 pcs/bag
61-2562	Flanged Bearing 2.5x6x2.6	<b>61-2562</b>	Flanged Bearings 2.5x6x2.6	4 pcs/bag
62-101412	One Way Bearing 10x14x12	<b>62-101412</b>	One Way Bearing 10x14x12	1 set/bag
80-0205	Cap Head Bolt M2x5	<b>80-0205</b>	Cap Head Bolts M2x5	10 pcs/bag
80-0206S	Cap Head Bolt 2x6 (Link Balls)	<b>80-0206S</b>	Cap Head Bolts 2x6 (Link Balls)	10 pcs/bag
80-2508	Cap Head Bolt M2.5x8	<b>80-2508</b>	Cap Head Bolts M2.5x8	10 pcs/bag
80-2510	Cap Head Bolt M2.5x10	<b>80-2510</b>	Cap Head Bolts M2.5x10	10 pcs/bag
80-2518	Cap Head Bolt M2.5x18	<b>80-2518</b>	Cap Head Bolts M2.5x18	2 pcs/bag
82-2540	Washer 2.5x4.1x0.2	<b>82-2540</b>	Washers 2.5x4.1x0.2	10 pcs/bag
91-0025	Nylon Nut M2.5	<b>91-0025</b>	Nylon Nuts M2.5	10 pcs/bag

**06-8203**

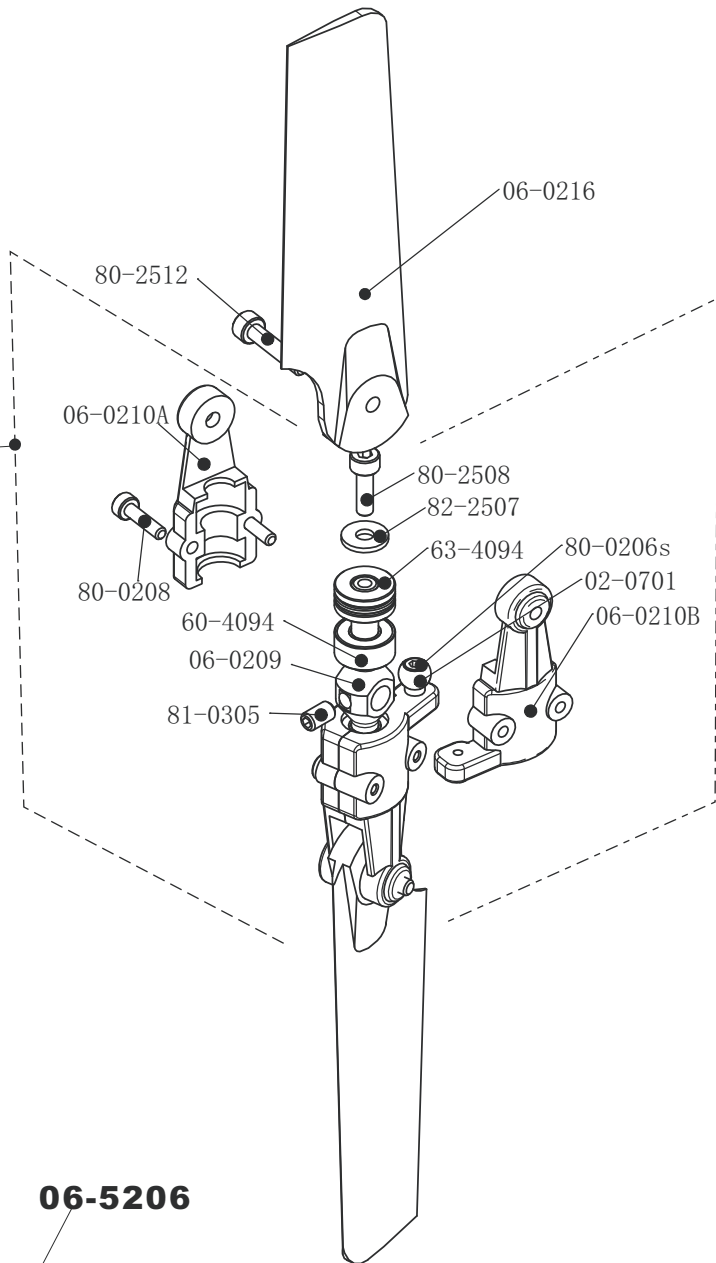


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- b: 80-0308
- c: 82-3201
- d: 95-2508
- e: 95-0310
- f: 80-0306

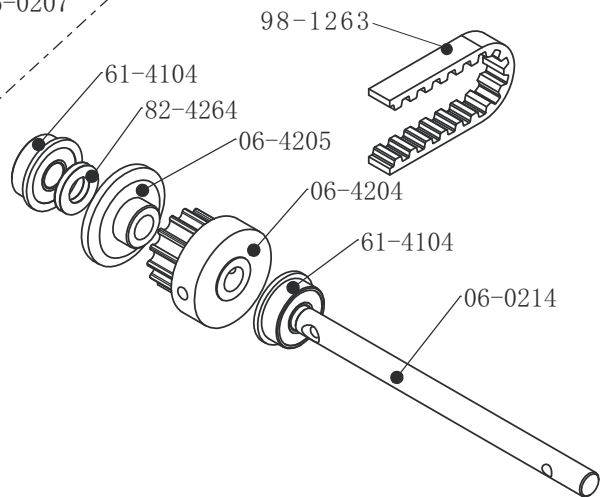
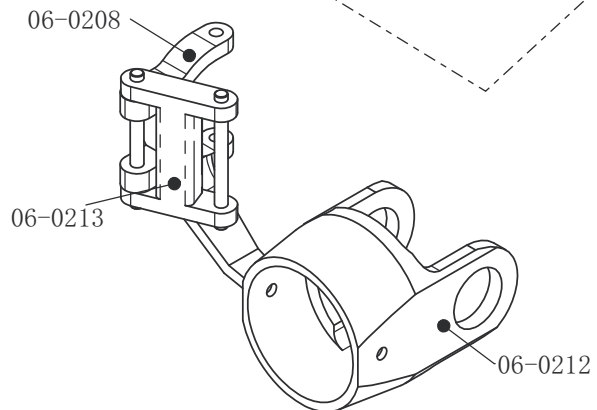
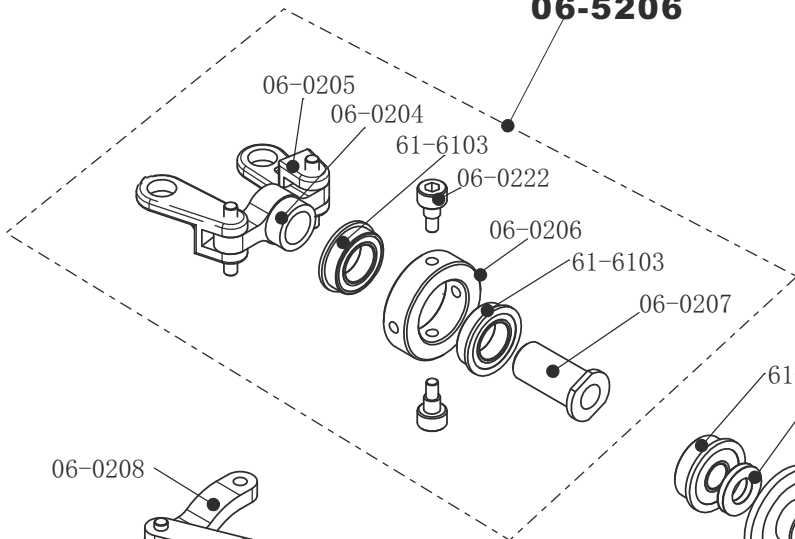


<b>Part No.</b>	<b>Part Description</b>	<b>Order No.</b>	<b>Order Description</b>	<b>Remark</b>
02-0805	Cross Member	<b>02-0805</b>	Cross Member set	5 pcs/bag
02-0820	Skid End Caps	<b>02-0820</b>	Skid End Caps	4 pcs/bag
02-0845	Frame Member	<b>02-0849S</b>	Frame Member set	2 pcs/bag
02-0849	Frame Member	<b>02-0849S</b>	Frame Member set	2 pcs/bag
02-1805	Cross Member	<b>02-1805</b>	Cross Member set	2 pcs/bag
02-1825	Tail Boom Mount	<b>02-1825S</b>	Tail Boom Mount w, Bolts	1 set/bag
06-0302	Motor Mount	<b>06-0302S</b>	Motor Mount w. Bolts	1 set/bag
06-0305	Frame Connector ( Plastic )	<b>06-0305</b>	Frame Connectors Plastic w. Bolts	2 pcs/bag
06-0606	Bearing Block	<b>06-0606Z</b>	Bearing Block w. Bearing (Atom 500)	1 pcs/bag
06-0811	Battery Tray	<b>06-0811S</b>	Battery Tray w, Bolts (Atom 500)	1 pcs/bag
06-0812	Canopy Standoff	<b>06-0812</b>	Canopy Standoff set (Atom 500)	2 pcs/bag
06-0818	Landing Gear Skid	<b>06-0818S</b>	Landing Gear Skids w. Caps (Atom 500)	2 pcs/bag
06-0822	Cross Member	<b>06-0822</b>	Cross Member set (Atom 500)	2 pcs/bag
06-0827	Landing Gear Strut	<b>06-0827</b>	Landing Gear Struts (Atom 500)	2 pcs/bag
06-0828	Guide Pulley	<b>06-0828Z</b>	Guide Pulley set (Atom 500)	2 set/bag
06-0830L	Main Frame Left Atom R (G10)	<b>06-0830L</b>	Main Frame Left Atom R (G10)	1 pcs/bag
06-0830LT	Main Frame Left (Carbon)	<b>06-0830LT</b>	Main Frame Left (Carbon)	1 pcs/bag
06-0830R	Main Frame Right Atom R (G10)	<b>06-0830R</b>	Main Frame Right Atom R (G10)	1 pcs/bag
06-0830RT	Main Frame Right (Carbon)	<b>06-0830RT</b>	Main Frame Right (Carbon)	1 pcs/bag
06-0843	Gyro Mount	<b>06-0843</b>	Gyro Mount	1 pcs/bag
06-0905	Swashplate Guide	<b>06-0905</b>	Swashplate Guide (Atom 500)	1 pcs/bag
06-4308	Pinion Gear 8T (Atom R)	<b>06-4308</b>	Pinion Gear 8T (Atom R)	1 set/bag
06-4309	Pinion Gear 9T (default)	<b>06-4309</b>	Pinion Gear 9T (default)	1 set/bag
06-4310	Pinion Gear 10T (3D extreme)	<b>06-4310</b>	Pinion Gear 10T (3D extreme)	1 set/bag
06-8203	Guide Pulley set	<b>06-8203</b>	Guide Pulley set (Atom 500)	1 set/bag
07-0818	Guide Pulley Mount	<b>07-0818</b>	Guide Pulley Mount set	1 set/bag
60-8165	Ball Bearing 8x16x5	<b>60-8165</b>	Ball Bearings 8x16x5	2 pcs/bag
61-3084	Flanged Bearing 3x8x4	<b>61-3084</b>	Flanged Bearings 3x8x4	2 pcs/bag
78-0308	Flat Head Bolt M4x8	<b>78-0308</b>	Flat Head Bolts M4x8	10 pcs/bag
80-0306	Cap Head Bolt M3x6	<b>80-0306</b>	Cap Head Bolts M3x6	10 pcs/bag
80-0308	Cap Head Bolt M3x8	<b>80-0308</b>	Cap Head Bolts M3x8	10 pcs/bag
80-0314	Cap Head Bolt M3x14	<b>80-0314</b>	Cap Head Bolts M3x14	10 pcs/bag
80-0340	Cap Head Bolt M3x40	<b>80-0335</b>	Cap Head Bolts M3x40	10 pcs/bag
80-2506	Cap Head Bolt M2.5x6	<b>80-2506</b>	Cap Head Bolts M2.5x6	10 pcs/bag
81-0305	Set Screw M3x5	<b>81-0305</b>	Set Screws M3x5	10 pcs/bag
81-0316	Set Screw M3x16	<b>81-0316</b>	Set Screws M3x16	10 pcs/bag
82-3201	Washer 3.2x10x1.2	<b>82-3201</b>	Washers 3.2x10x1.2	10 pcs/bag
82-3504	Washer 3.2x5.2x0.4	<b>82-3504</b>	Washers 3.2x5.2x0.4	10 pcs/bag
91-0003	Nylon Nut M3	<b>91-0003</b>	Nylon Nuts M3	10 pcs/bag
95-0310	Self Tapping Screw M3x10	<b>95-0310</b>	Self Tapping Screws M3x10	10 pcs/bag
95-2508	Self Tapping Screw M2.5x8	<b>95-2508</b>	Self Tapping Screws M2.5x8	10 pcs/bag
C5016	BL Motor for Atom 500 6S	<b>C-5016</b>	BL Motor for Atom 500 6S	1 set/bag

**06-5210**

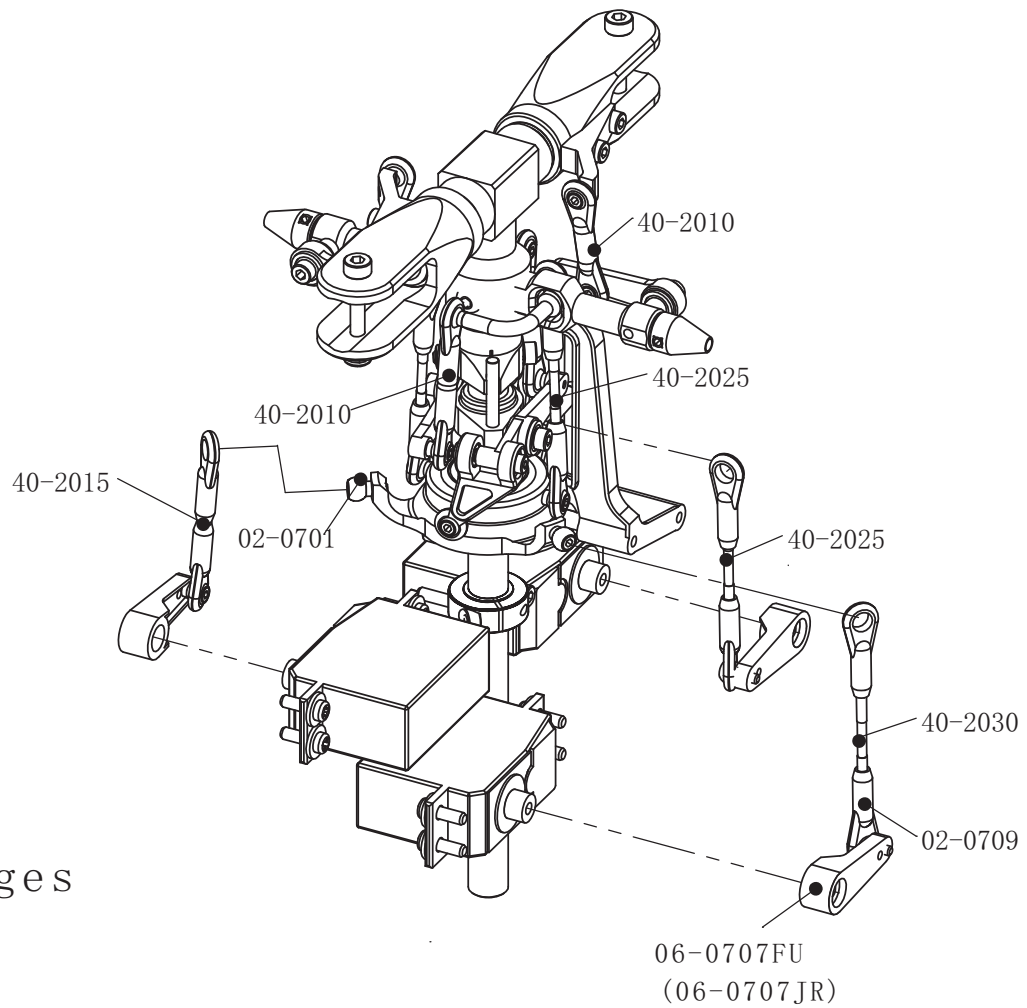
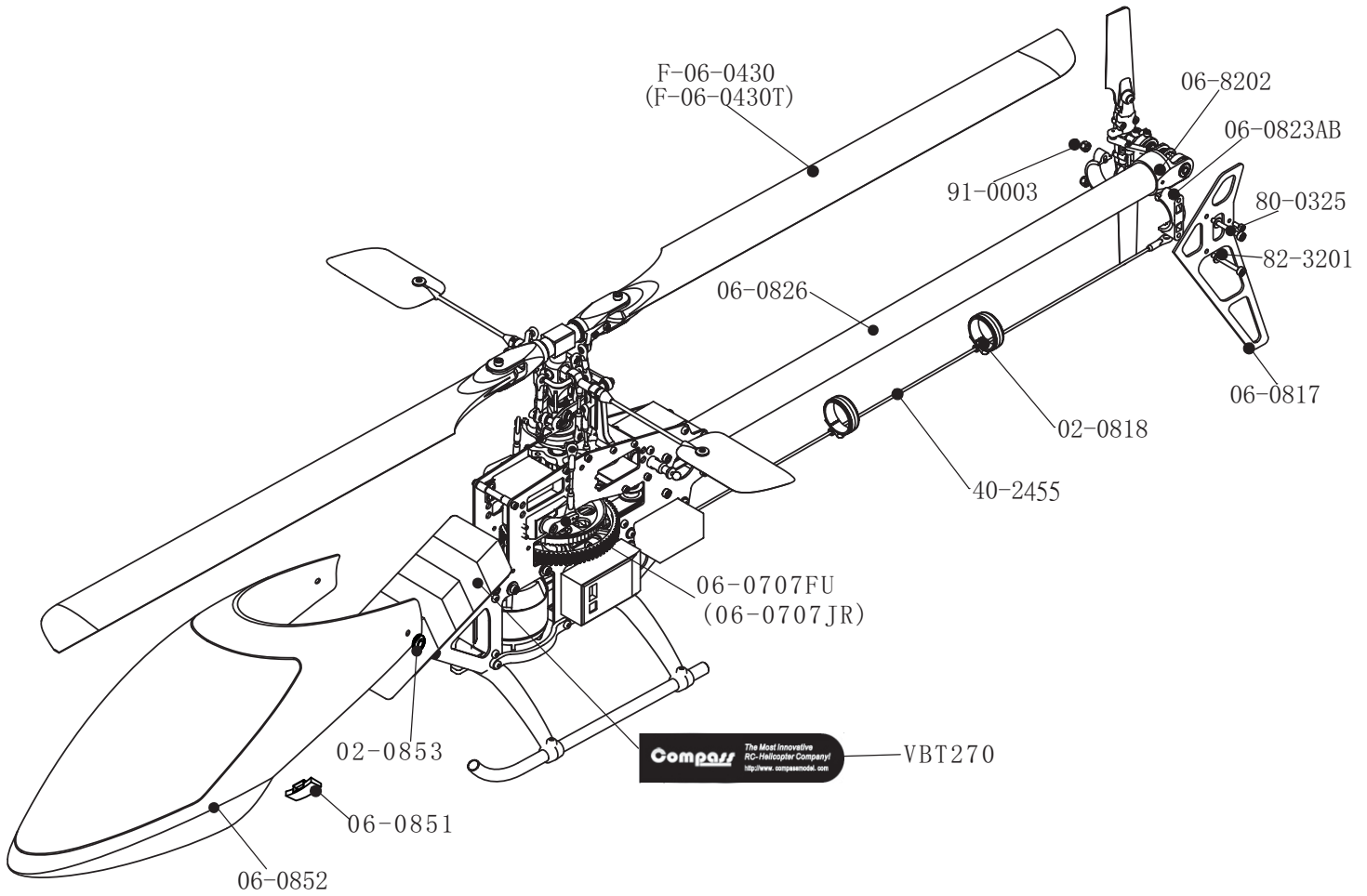


**06-5206**



<b>Part No.</b>	<b>Part Description</b>	<b>Order No.</b>	<b>Order Description</b>	<b>Remark</b>
02-0701	Stainless Link Ball	<b>02-0701</b>	Stainless Link Balls	10 pcs/bag
06-0204	Tail Pitch Plate	<b>06-0204S</b>	Tail Pitch Plate w. Pin (Atom 500)	1 set/bag
06-0205	Tail Blade Link	<b>06-0205S</b>	Tail Blade Links w, Pin (Atom 500)	2 set/bag
06-0206	Tail Pitch Slider	<b>06-0206Z</b>	Tail Pitch Slider w. BB (Atom 500)	1 set/bag
06-0207	Tail Slider Ring	<b>06-0207</b>	Tail Slider Ring (Atom 500)	1 pcs/bag
06-0208	Tail Pitch Lever (crank)	<b>06-0213S</b>	Tail Pitch Lever set (Atom 500)	1 set/bag
06-0209	Tail Rotor Hub	<b>06-0209</b>	Tail Rotor Hub (Atom 500)	1 pcs/bag
06-0210AB	Tail Blade Holder	<b>06-0210AB</b>	Tail Blade Holder (Atom 500)	2 pcs/bag
06-0212	Tail Gear Box	<b>06-0212Z</b>	Tail Gear Box	1 set/bag
06-0213	Tail Pitch Lever (H)	<b>06-0213S</b>	Tail Pitch Lever set (Atom 500)	1 set/bag
06-0214	Tail Shaft	<b>06-0214</b>	Tail Shaft set (Atom 500)	2 pcs/bag
06-0216	Tail Blade	<b>06-0216</b>	Tail Blade set	2 pcs/bag
06-0222	Guide Pin Bolt	<b>06-0222</b>	Guide Pin Bolts	2 pcs/bag
06-4204	Tail Pulley	<b>06-4204S</b>	Tail Pulley set (Atom 500)	1 set/bag
06-4205	Tail Pulley Cover	<b>06-4204S</b>	Tail Pulley set (Atom 500)	1 set/bag
06-5206	Tail Control set complete	<b>06-5206</b>	Tail Control set complete (Atom 500)	1 set/bag
06-5210	Tail Rotor set complete	<b>06-5210</b>	Tail Rotor set complete (Atom 500)	1 set/bag
60-4094	Ball Bearing 4x9x4	<b>60-4094</b>	Ball Bearings 4x9x4	5 pcs/bag
61-4104	Flanged Bearing 4x10x4	<b>61-4104</b>	Flanged Bearings 4x10x4	2 pcs/bag
61-6103	Flanged Bearing 6x10x3	<b>61-6103</b>	Flanged Bearings 6x10x3	2 pcs/bag
63-4094	Thrust Bearing 4x9x4	<b>63-4094</b>	Thrust Bearings 4x9x4	2 pcs/bag
80-0206S	Cap Head Bolt 2x6 (Link Balls)	<b>80-0206S</b>	Cap Head Bolts 2x6 (Link Balls)	10 pcs/bag
80-0208	Cap Head Bolt M2x8	<b>80-0208</b>	Cap Head Bolts M2x8	10 pcs/bag
80-2508	Cap Head Bolt M2.5x8	<b>80-2508</b>	Cap Head Bolts M2.5x8	10 pcs/bag
80-2512	Cap Head Bolt M2.5x12	<b>80-2512</b>	Cap Head Bolts M2.5x12	10 pcs/bag
81-0305	Set Screw M3x5	<b>81-0305</b>	Set Screws M3x5	10 pcs/bag
82-2507	Washer 2.7x8x0.8	<b>82-2507</b>	Washers 2.7x8x0.8	10 pcs/bag
82-4264	Washer 4.2x6.4x.026	<b>82-4264</b>	Washers 4.2x6.4x.026	10 pcs/bag
98-1263	Belt (Atom 500)	<b>98-1263</b>	Belt (Atom 500)	1 pcs/bag





Linkages

<b>Part No.</b>	<b>Part Description</b>	<b>Order No.</b>	<b>Order Description</b>	<b>Remark</b>
02-0709	Ball Links	<b>02-0709</b>	Ball Links	10 pcs/bag
02-0818	Tail Linkrod Guide	<b>02-0818S</b>	Tail Linkrod Guide set	4 pcs/bag
02-0853	Canopy Dampner	<b>02-0853</b>	Canopy Dampner	4 set/bag
06-0817	Tail Fin G10	<b>06-0817</b>	Tail Fin G10	1 pcs/bag
06-0817T	Tail Fin Carbon	<b>06-0817T</b>	Tail Fin Carbon	1 pcs/bag
06-0823AB	Vertical Fin Clamp	<b>06-0823AB</b>	Vertical Fin Clamp	1 set/bag
06-0826	Tail Boom	<b>06-0826</b>	Tail Booms (Atom 500)	2 pcs/bag
06-0851	Canopy Insert	<b>06-0851</b>	Canopy Inserts	1 set/bag
06-0852	Painted FG Canopy (Atom yellow)	<b>06-0852S</b>	Painted FG Canopy (Atom yellow)	1 set/bag
	FG Canopy White (Atom)	<b>06-0852W</b>	FG Canopy White (Atom)	1 set/bag
06-8202	Tail Gear Box set	<b>06-8202</b>	Tail Gear Box set Complete (Atom 500)	1 set/bag
06-0707FU	Servo Arm (FUTABA)	<b>06-0707FU</b>	Servo Arm set (FUTABA)	1 set/bag
06-0707JR	Servo Arm (JR)	<b>06-0707JR</b>	Servo Arm set (JR)	1 set/bag
40-2455	Tail Link Rod	<b>40-2455</b>	Tail Link Rod	1 pcs/bag
40-2010	Link Rod 10mm	<b>E-LG-04</b>	Link Rod set (Atom 500)	1 set/bag
40-2015	Link Rod 15mm	<b>E-LG-04</b>	Link Rod set (Atom 500)	1 set/bag
40-2025	Link Rod 25mm	<b>E-LG-04</b>	Link Rod set (Atom 500)	1 set/bag
40-2030	Link Rod 30mm	<b>E-LG-04</b>	Link Rod set (Atom 500)	1 set/bag
80-0325	Cap Head Screw M3x25	<b>80-0325</b>	Cap Head Screws M3x25	10 pcs/bag
82-3201	Washer 3.2x10x1.2	<b>82-3201</b>	Washers 3.2x10x1.2	10 pcs/bag
91-0003	Nylon Nut M3	<b>91-0003</b>	Nylon Nuts M3	10 pcs/bag
VBT270	Velcro Binding Tape 270x20	<b>VBT270</b>	Velcro Binding Tape 270x20	4 pcs/bag
F-06-0430	Compass FG Blade 430mm	<b>F-06-0430</b>	Compass FG Blade set 430mm	1 pair/bag
F-06-0430T	Compass Carbon Blade 430mm	<b>F-06-0430T</b>	Compass Carbon Blade set 430mm	1 pair/bag

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