

# Compass

# B plus



*..you asked for the Fast & Furious - now you got it!*



## Features :

- New Rotor Design
- Increased Cyclic Speed
- Large Pitch Range
- Metal Swashplate 120° CCPM
- Extremely Lightweight Frame Design
- Easy Assembly
- 80% Pre-Build
- Anti Vibration Engine Mount
- Improved Engine Cooling System
- Fully Equipped with Thrust Bearings
- Dual Pin Zero-Slop Tail Pitch Mechanism

## Assembly Manual

Version 2.1

Created : 05/20/2010

Equipped with extra Strong Carbon Frames, Aluminum Rotor Head, Aluminum Tail Rotor and a Metal Swashplate the 3D Plus not only looks great but is long lasting.

Copyright Compass Model 2009

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 3D Plus Nitro 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. The 3D Plus is a large glow powered model, it should be assembled and operated with special care. When operating your 3D Plus, 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 flying field has its own sets of safety guidelines which cannot be expressed here, so prior to any flight, refer to the guidelines at your 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 guidance from experienced pilots.
- The guidance provided by experienced pilots is often 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

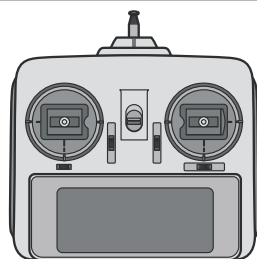
In order to operate this model, you need to purchase the following items not kit-included.

At least a 6 channel radio and receiver

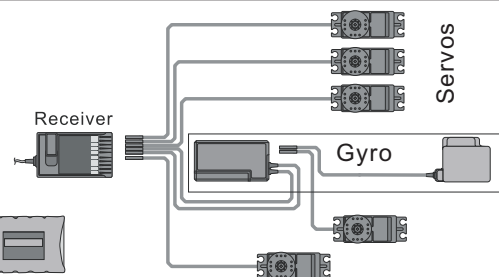
4 standard servos.

1 gyro with rudder servo.

5V receiver battery  
or 2 cell li-po battery with a regulator.

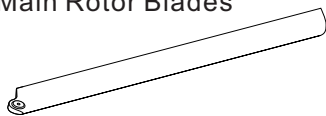


Transmitter



Battery

Main Rotor Blades



Length: 600~ 620mm



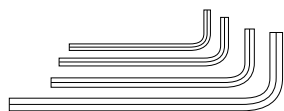
Thread Lock



Grease



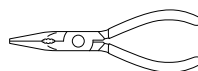
Bearing Retainer



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



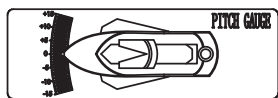
Cutter Knife



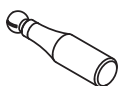
Needle Nose Pliers



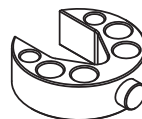
Screw Driver



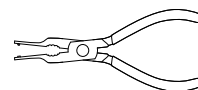
Pitch Gauge



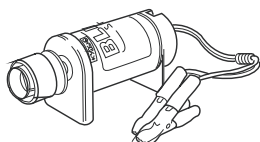
Ball Link Sizing Tool



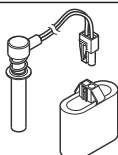
Swashplate tool



Ball Link Plier



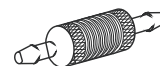
Engine Starter



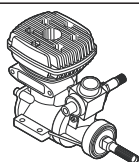
Glow Igniter



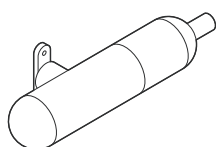
Starter Shaft



Fuel Filter



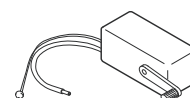
Class 50 Engine



Muffler for 50 Class



Glow Fuel for  
Model Engines



Fuel Pump



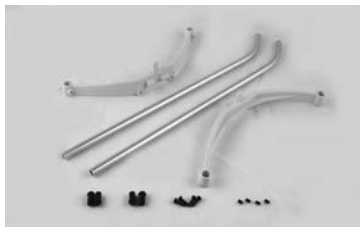
# Pre-assembly Information

When first opening your 3D Plus 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.



Step 1



Step 2



Step 3



Long items



Tail Set



Step 4



Step 5



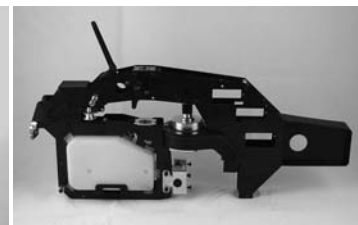
Rotor Head



Step 7



Step 9



Frame set



Step 12

## Symbols & Assembling



Caution

Mishandling due to 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 has to be fit into metal parts.
- \* Do not over-tighten self tapping screws into plastic parts or you will strip the threads!

# 1

## Landing Gear

0 10 20 30 40



M3 x10 Self Tapping Bolt X 8



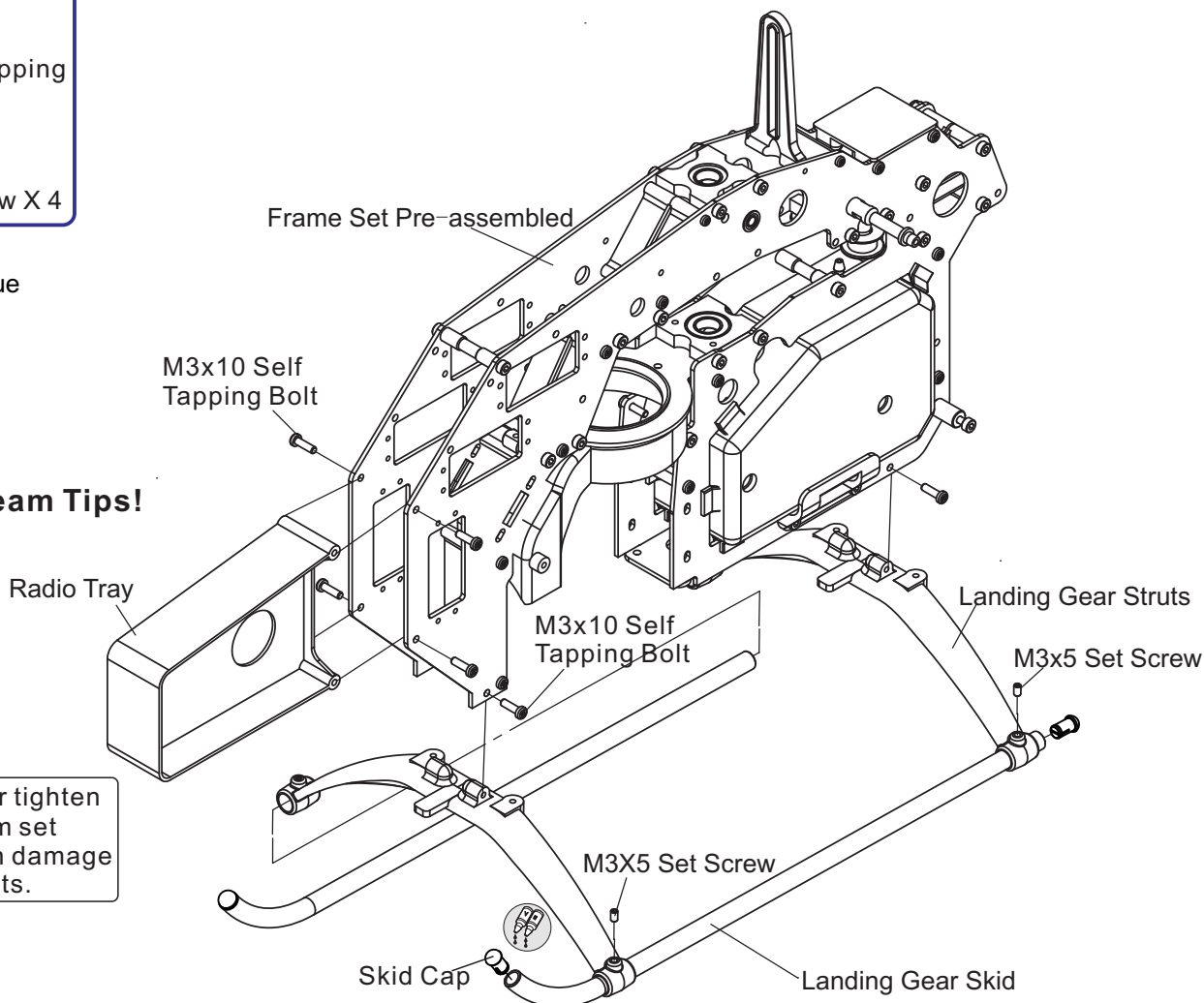
M3x5 Set Screw X 4



Use AB Glue

See Page Team Tips!

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



# 2

## Engine & Pinion

0 10 20 30 40



M3x14 Cap Head Bolt x2



M3 Nylon Nut x2



M3x8 Cap Head Bolt x2



M3x10 Cap Head Bolt x10



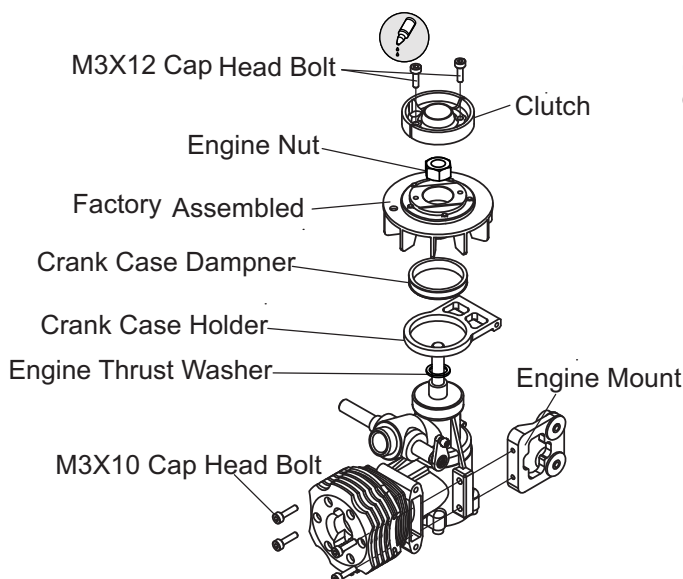
M3x12 Cap Head Bolt x2



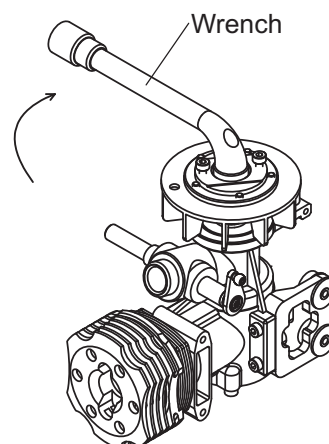
M3x16 Cap Head Bolt x4

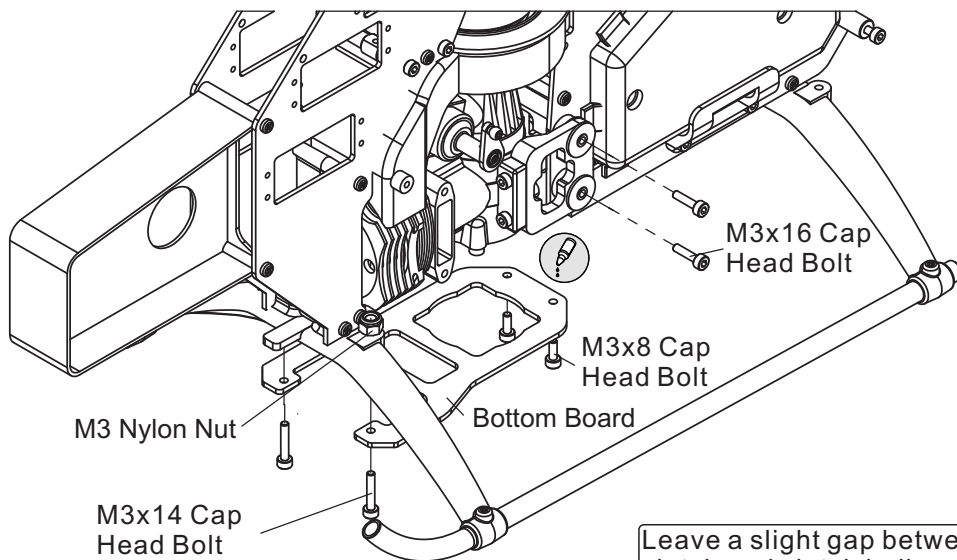


Threadlock

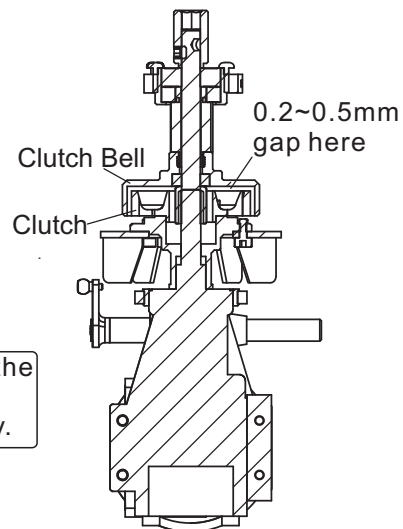


Lock the Piston in place with a Crank Shaft Locking Tool in order to tighten the Engine Nut.





Leave a slight gap between the clutch and clutch bell so that the engine may run smoothly.



③

## Boom & Tail Rotor

0 10 20 30 40

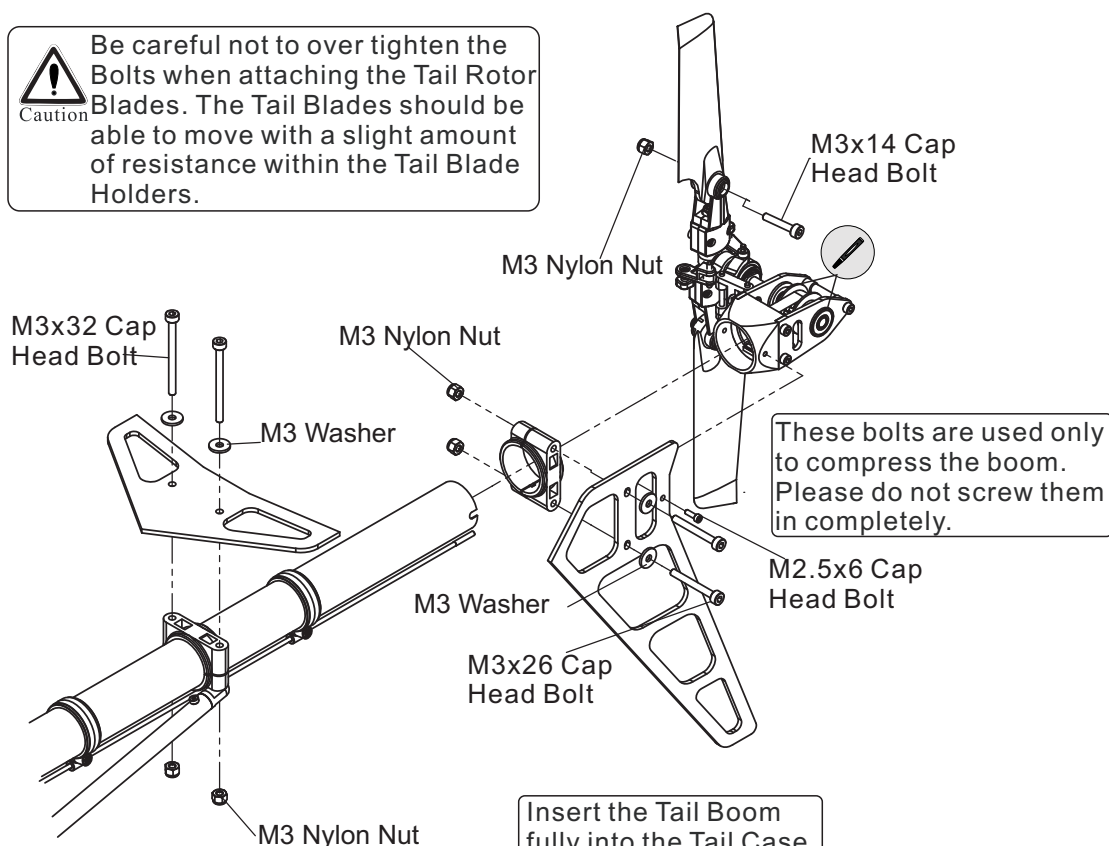
- M3 Washer x4
- M3 Nylon Lock Nut x10
- M2.5x6 Cap Head Bolt x2
- M3x38 Cap Head Bolt x4
- M3x14 Cap Head Bolt x2
- M3x26 Cap Head Bolt x2
- M3x25 Cap Head Bolt x2
- M3x32 Cap Head Bolt x2
- M2.5 x8 Self Tapping Bolt X 4



Cramping 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 Case before tightening the 2.5x6mm Bolts.

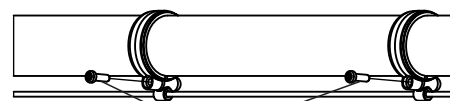
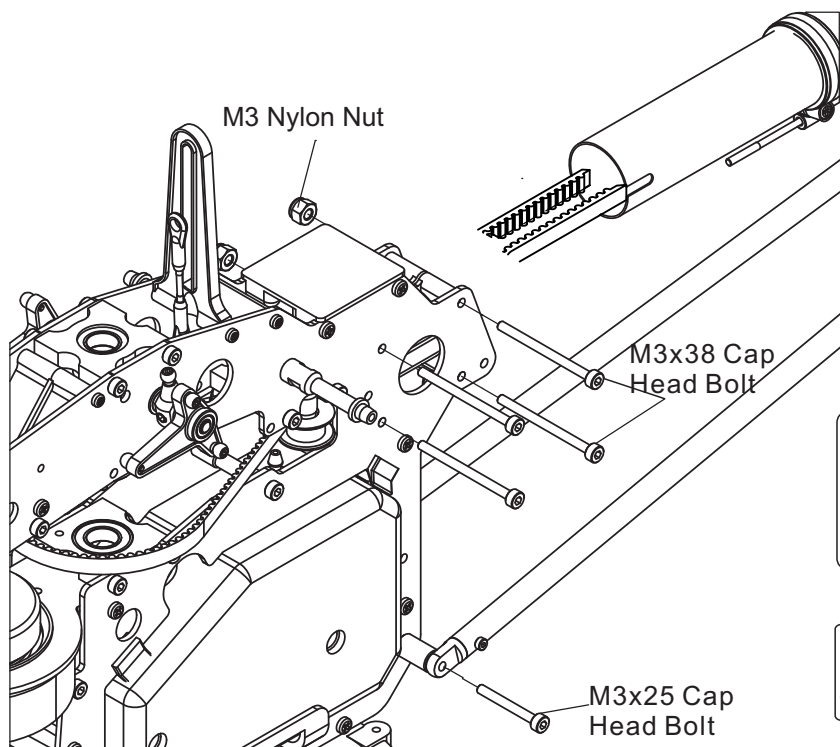


Use Threadlock



Bearing Retainer

See Page Team Tips!



M2.5x8 Self Tapping Bolt

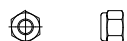


Slide the tail boom through the tail boom block. Twist the tail belt 90° to the right before inserting it into the boom block and through the idler pulleys.

There are 2 grooves on the boom. The shorter groove is towards the tail while the longer one is towards the frame.

④

## Main Gear



M3 Nylon Lock Nut x1



M2.5x10 Cap Head Bolt x1



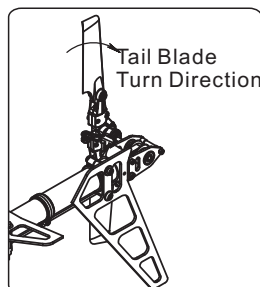
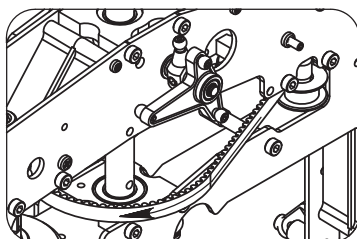
M3x27 Shanked Bolt x1

Lift the Main Shaft Collar upwards and secure to the Main Shaft by slightly tightening 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.

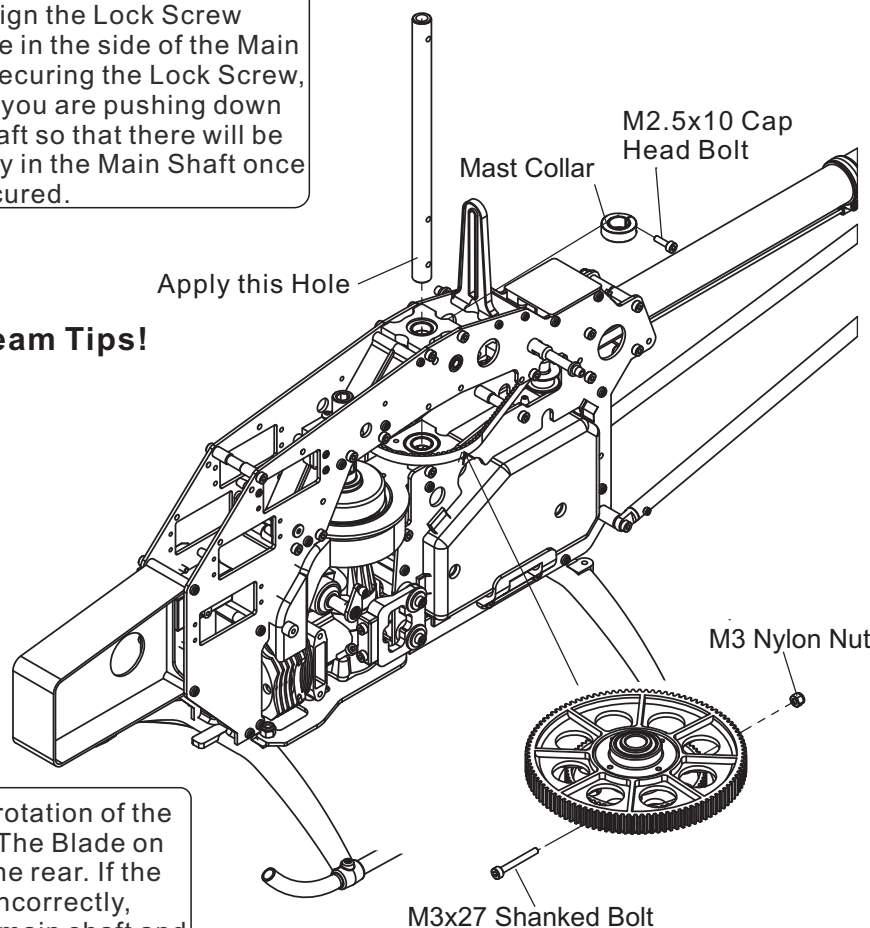


Use Threadlock

See Page Team Tips!



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

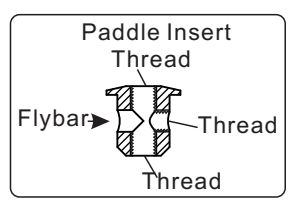
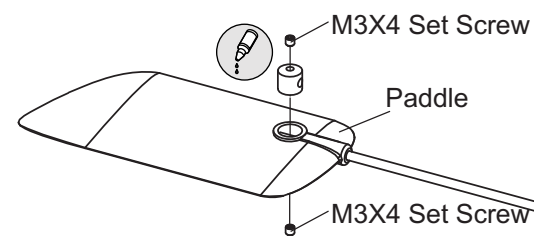
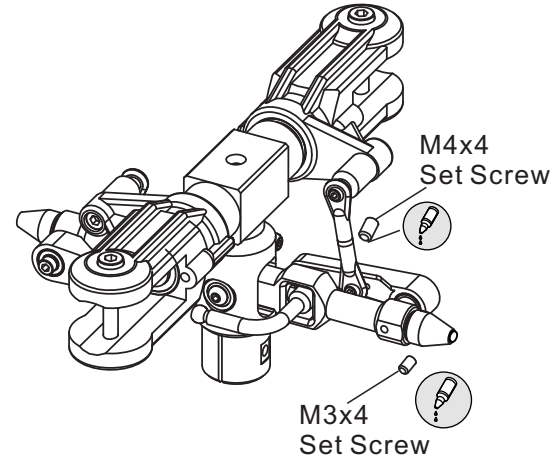


-   M2.5 x8 Self Tapping Bolt X 4
-   M3x4 Set Screw x6
-   M4x4 Set Screw x2
-   M3 Nylon Lock Nut x1
-   M3x22 Shanked Bolt x1
-   M2.5 x8 Self Tapping Bolt X 2

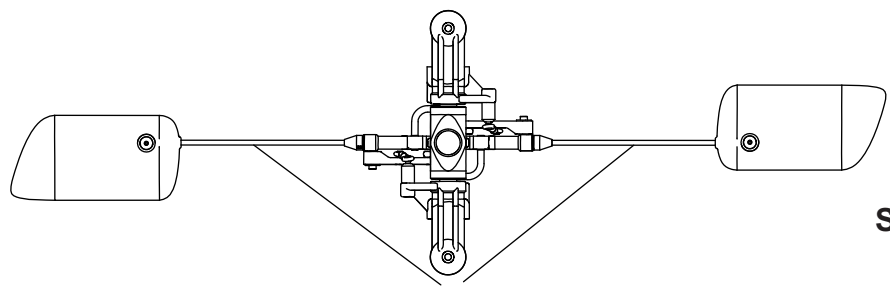
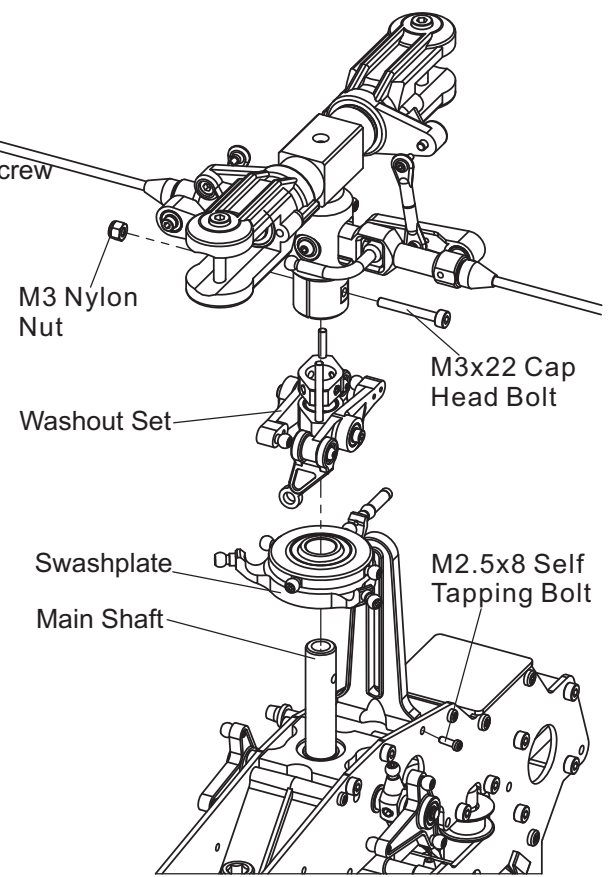
 Use Threadlock

In this step, push the Flybar through the Flybar Collar, Flybar Holder, and Flybar Control Arm. Using set screws, fix the Arms and Collars onto the Flybar. Make sure that both sides of the Flybar are of equal lengths.

*Push the Flybar in* →



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.

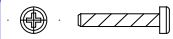
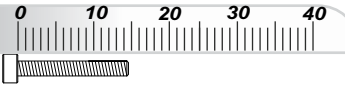


Adjust so that each side has exactly the same length

**See Page Team Tips!**

⑥

# Servo



M2.5x16 Self Tapping Bolt X 4



M2x6 Cap Head Bolt x8



M2.5x20 Cap Head Bolt x16



2.5mm Washer X 20



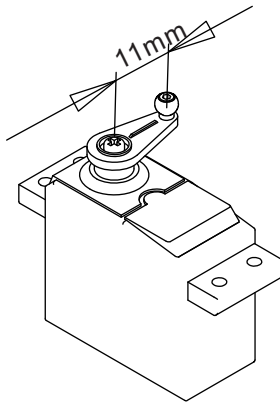
Servo Nut x 10

M2. 5X20 Cap Head Bolt

Servo Spacer

Servo

Nylon Servo Nut



All control balls should be set to 11mm from the center.

2. 5mm Washer

M2. 5X16 Self Tapping Bolt

M2X6 Cap Head Bolt

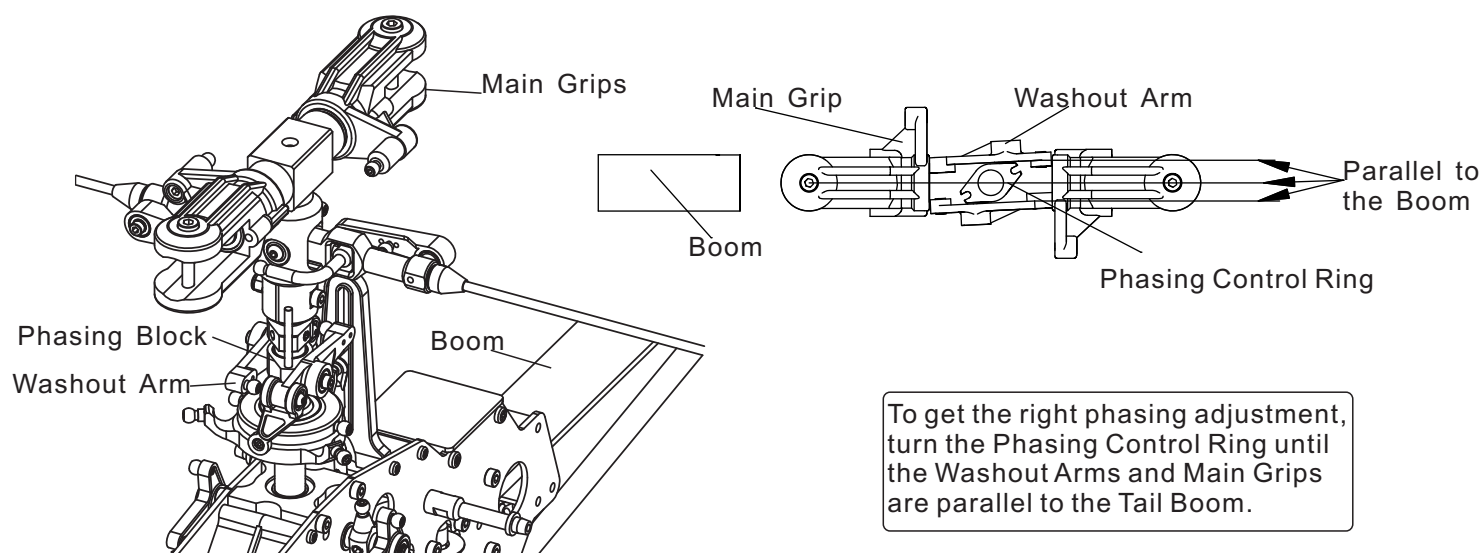
Link Ball

Servo Horn

⑦

## Phasing Control Ring Adjustment

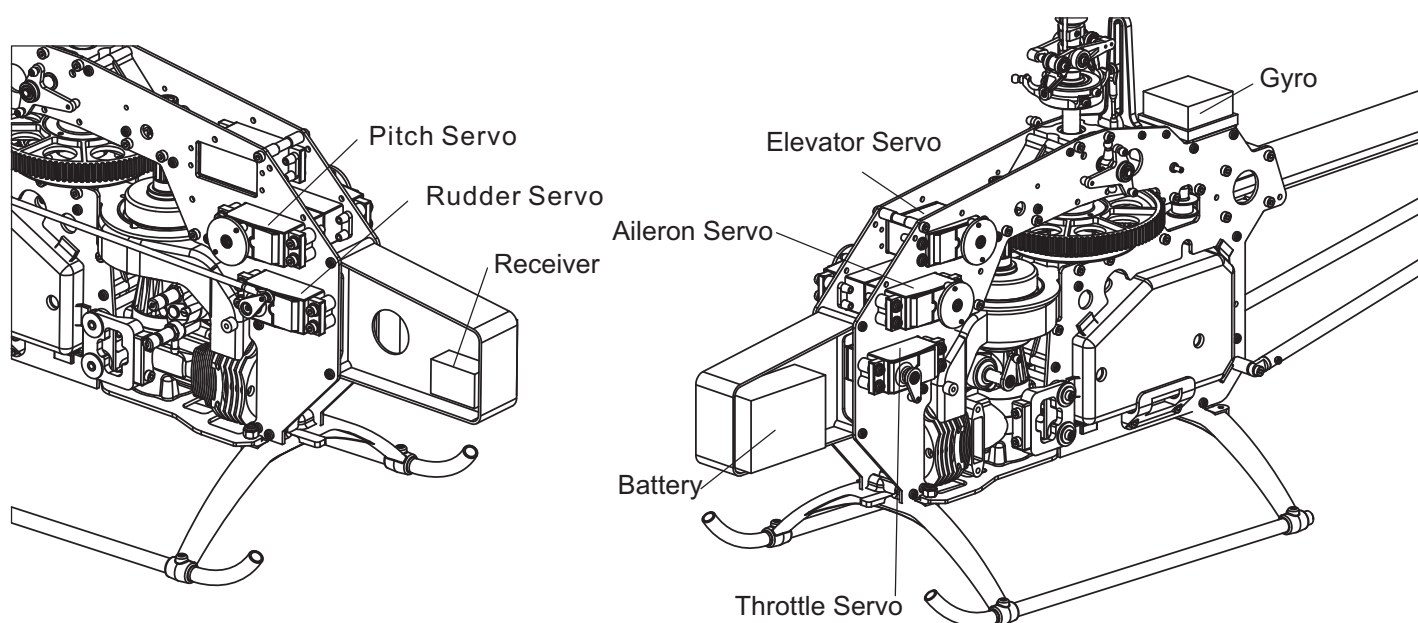
0 10 20 30 40



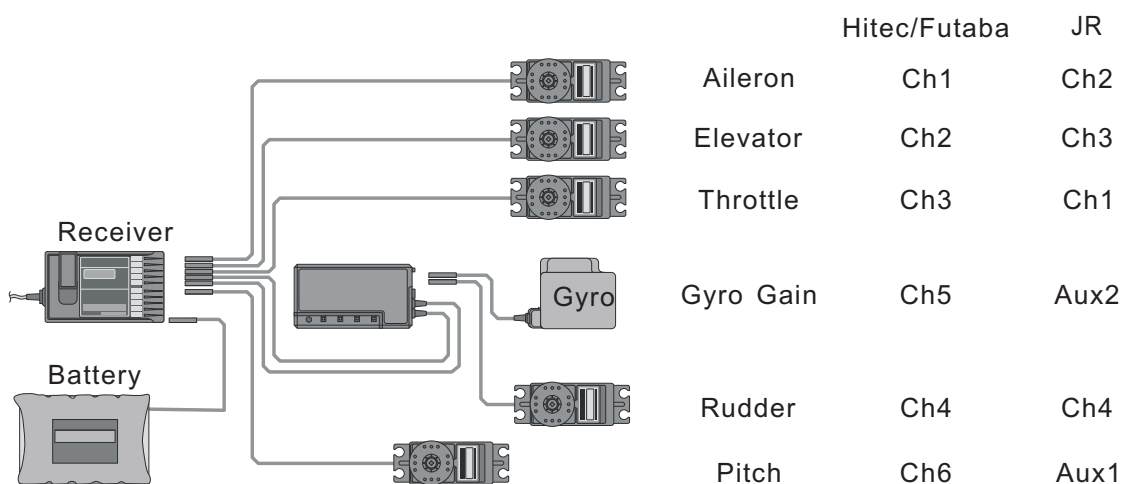
⑧

## Equipment illustration

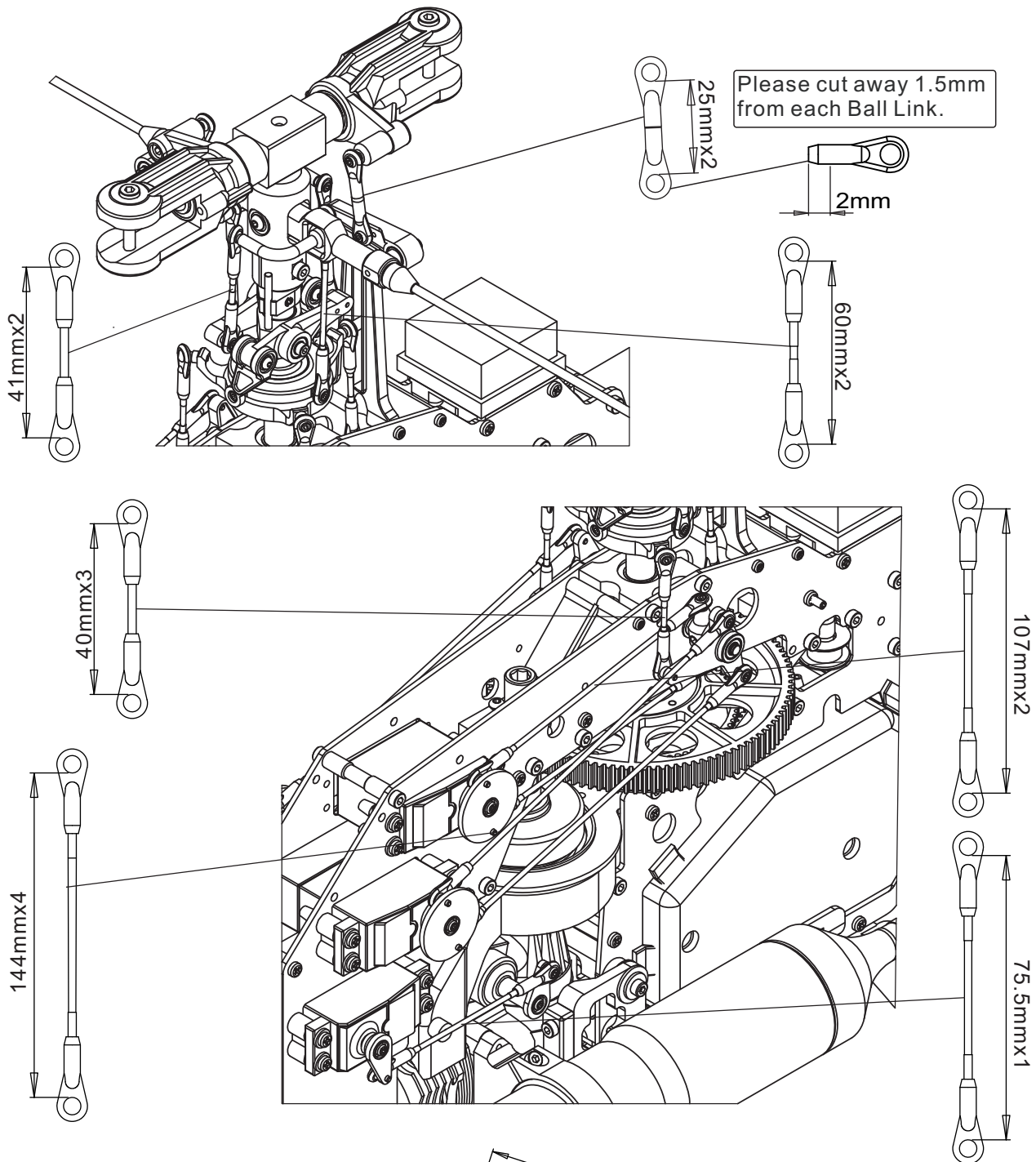
0 10 20 30 40



Please check first your radio manuals before connecting these electronic devices as shown below.



The Linkage lengths indicated below are approximate. Be aware that these values may vary depending on the servos and arms used in your setup.



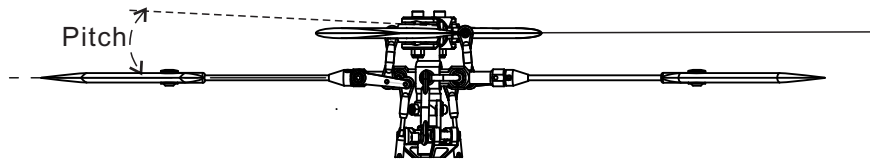
Compass Model Ball Links are designed to be tight; this allows you to adjust them to your personal needs. We highly suggest the use of a ball link sizing tool.



Caution

**Do not used pliers to resize Ball Links. Pliers can cause inadvertent damage to the Ball Links that may result in failure during use.**





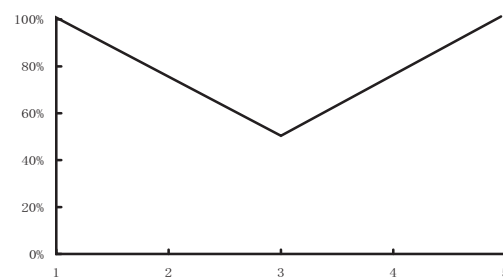
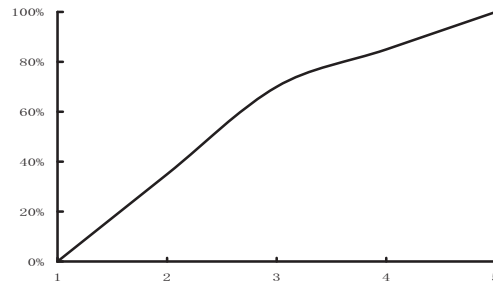
### General Flight

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

### 3D Style

	Throttle	Pitch
5	100%	13 deg
4	75%	6.5 deg
3	50%	0 deg
2	75%	-6.5 deg
1	100%	-13 deg

Throttle Curve



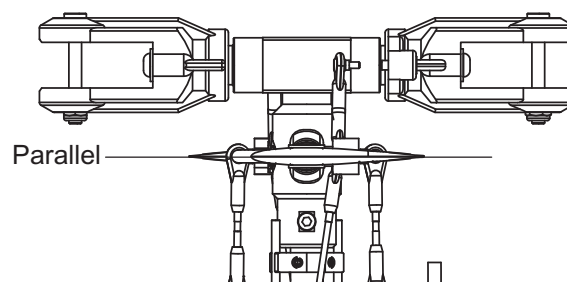
### Swash Type Setting

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

**For any radio setup please refer to your radio instructions first.**

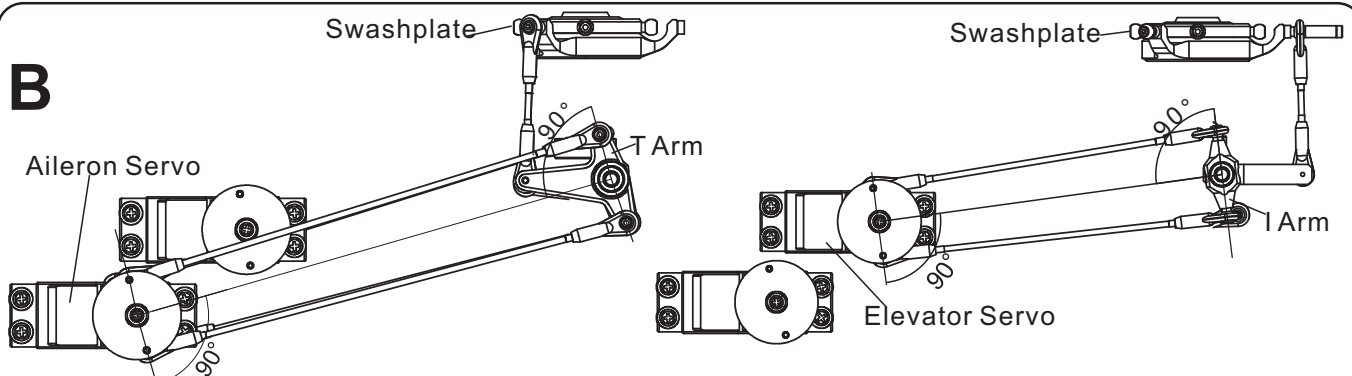
The data's shown above provide some general suggestions for radio setting. This information varies according to types of main blades, motor, pinion gear and engine. Adjustment has to be made during the actual flight.

**A**

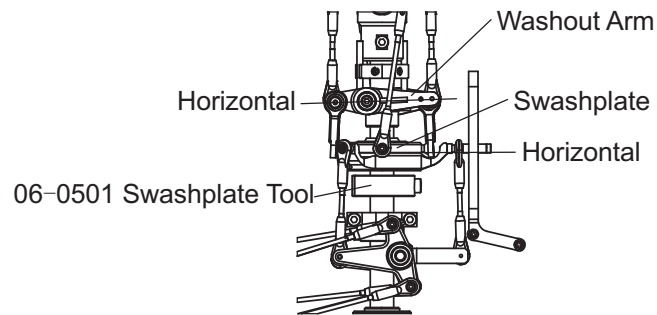


Make sure that the Flybar Control Arms and Paddles are in line as shown in the diagram.

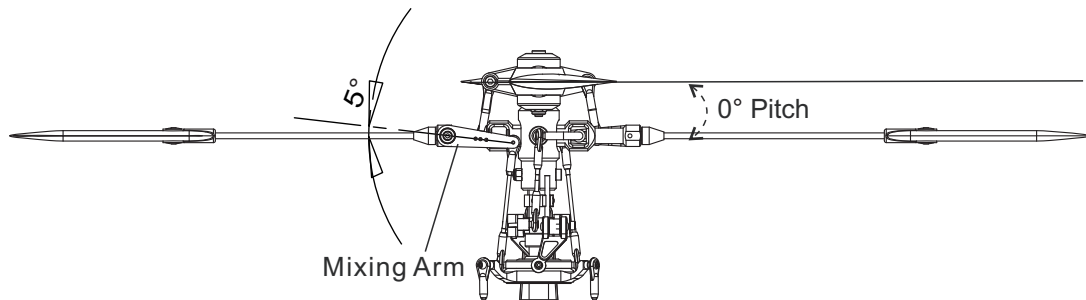
**B**



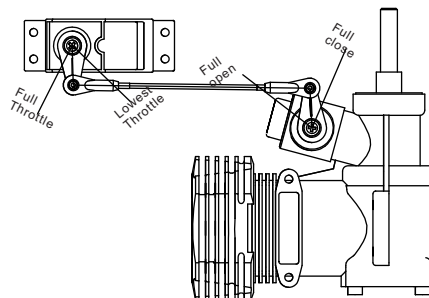
Turn on the Transmitter, set the Throttle Stick into center position for 0 ° Pitch. Use the Subtrim menu to adjust the 3 Swash Servo Arms to reach the angle shown above. The 2 Push-pull link rods are not necessarily parallel, but must be the same length.

**C**

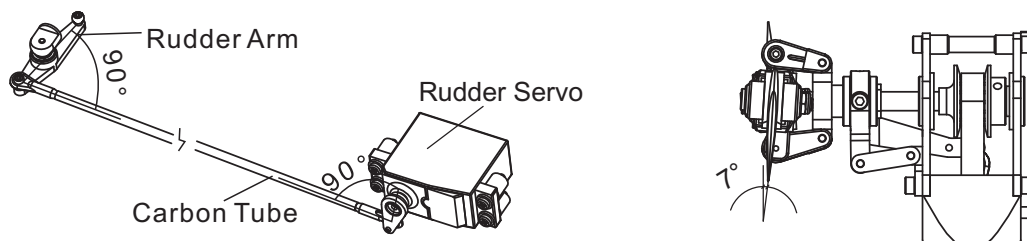
Level the Swashplate by adjusting the links from the Servo Arms to the Swashplate. Use a Compass Swashplate Tool as guide. Then set level the Washout Arms.

**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**

At the low throttle stick and throttle trim, the carburetor hole should be completely close. At full throttle stick, carburetor hole should be completely open. Adjust the ATV in radio, or/and the control horn position on the engine to achieve above requirement. Make sure the servo does not bind at any traveling point.

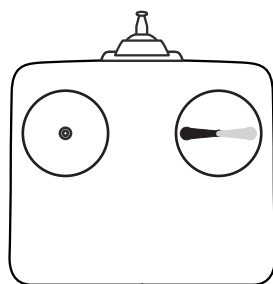
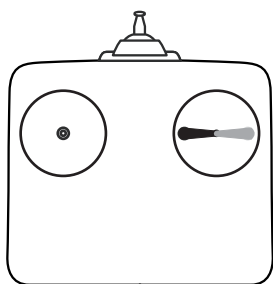
**F**

At Rudder middle stick, set Rudder Servo 90 degree to the Carbon Tube Link, the Rudder Arm 90° to the Carbon Tube Link. And set Tail Blade to 7° pitch.

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 your Throttle setting as well and adjust your Transmitter settings accordingly.

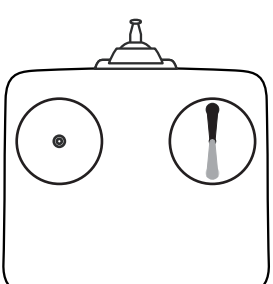
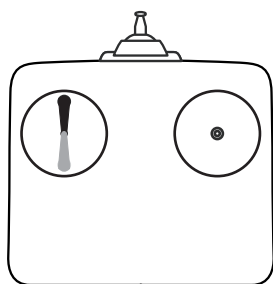
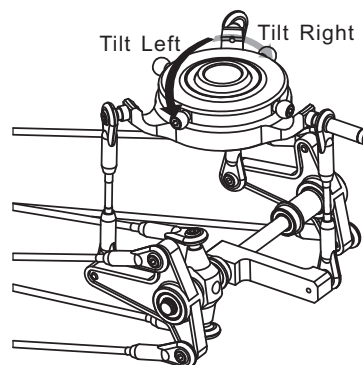
Mod 1

Mod 2



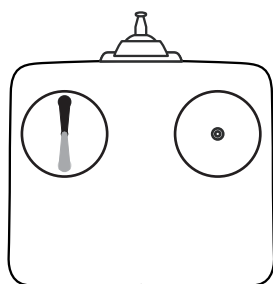
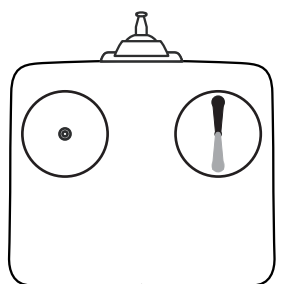
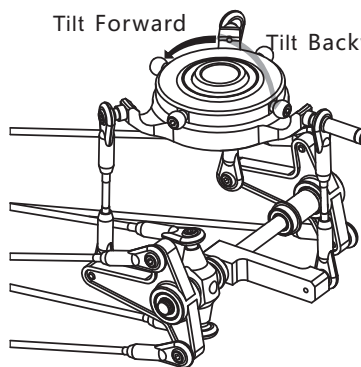
Aileron Check

Swashplate Reaction

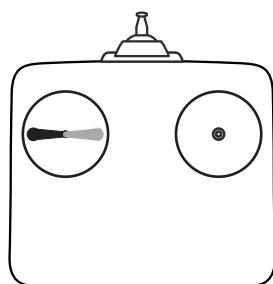
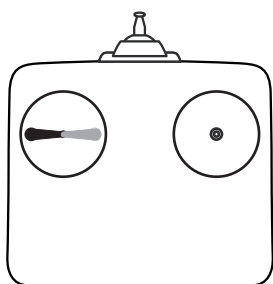
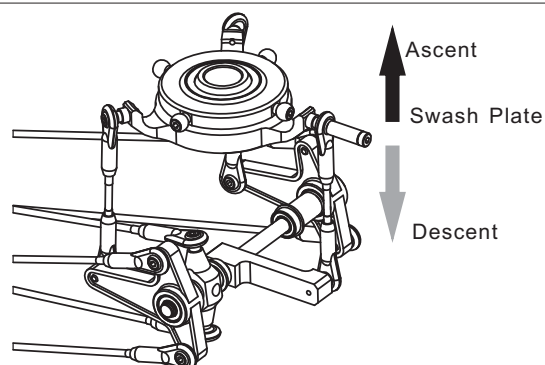


Elevator Check

Tilt Forward Tilt Backward

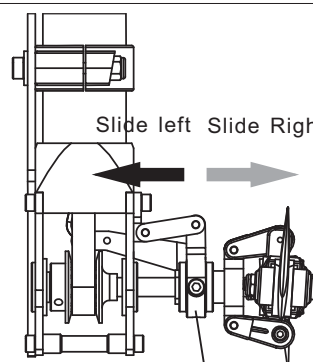


Pitch Check



Rudder Check

Slide left Slide Right



Tail Pitch Plate

12

## Canopy

0 10 20 30 40



M2.5x6 Self Tapping Bolt X 2



M3x15 Cap Head Bolt x2

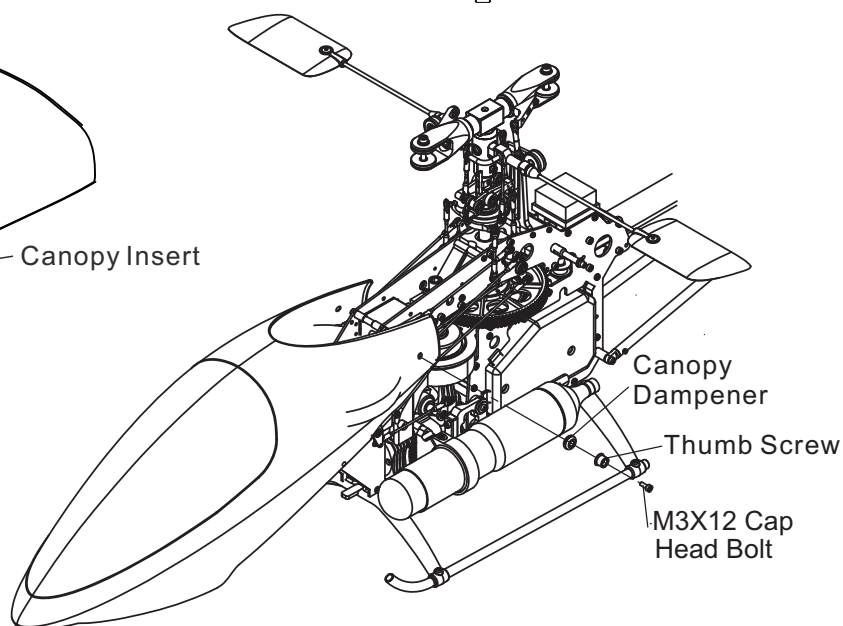


Use AB Glue

M2.5x6 Self Tapping Bolt

Canopy Insert

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.



Canopy Dampener

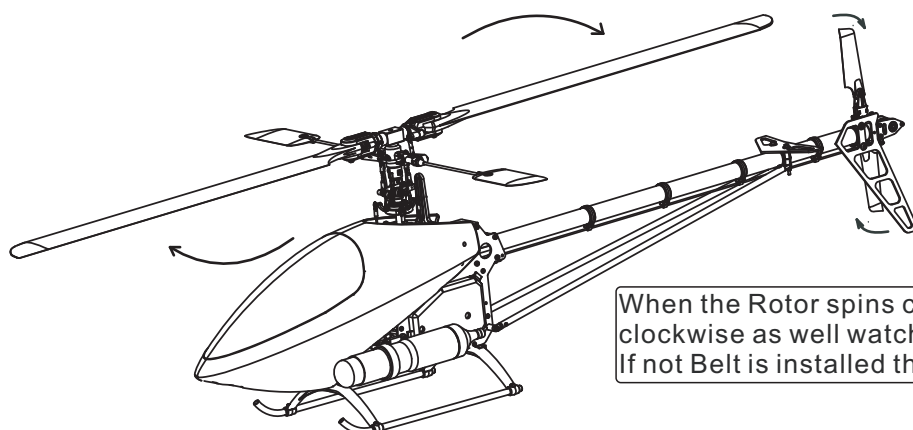
Thumb Screw

M3X12 Cap Head Bolt

13

## 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.

14

## Pre Flight Check

0 10 20 30 40

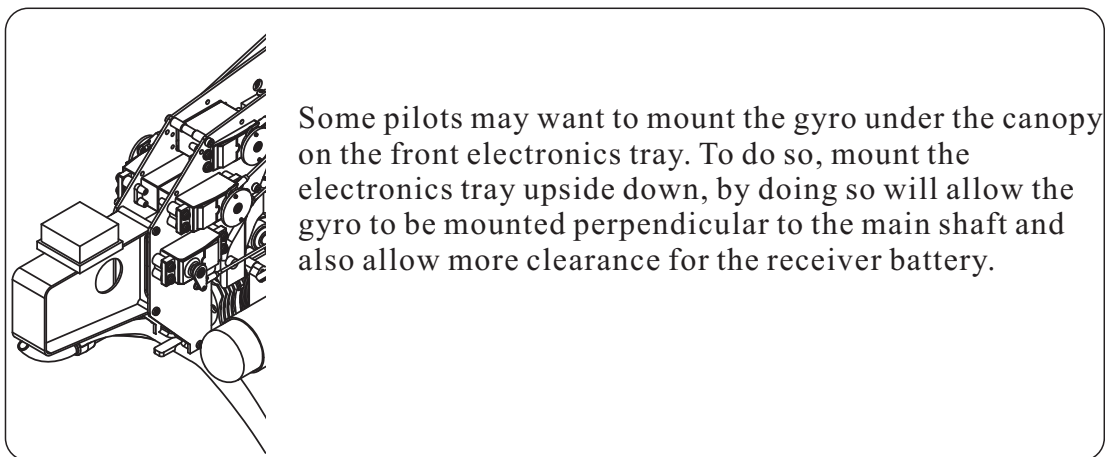
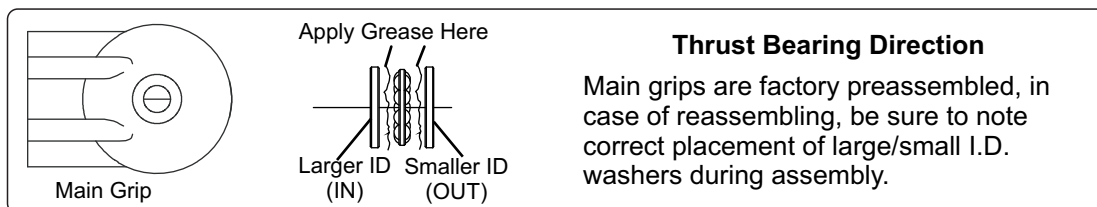
1. Ensure that receiver & transmitter battery are fully charged.
2. Check if all bolts and screws are fastened tightly and correctly.
3. Repeat step 11 to check all servo functions are correct.
4. Ensure tail and gyro direction are correctly set.
5. Check that main blades, paddles and tail blades are 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 engine, make sure the Flight Mode or Idle switch is in Normal mode, and that the Throttle stick be in the lowest position.



## Team Tips

### General:

1. The Ball Links on the 3D Plus need to be resized. These Ball Links will NOT break in over time. they will stay tight and will cause unwanted interactions.
2. It is very important to make sure the clunk line does not get hung up inside to fuel tank. Remove the fuel tank from the helicopter and rotate the tank. Be sure the clunk can get close to all corners of the tank.
3. For tail servos like the 8900G, you have to file the mount a little bit wider to fit the servo.



### 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.

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



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# Parts List

## 3D Plus

Version 1.0/2009

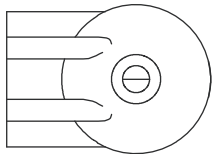
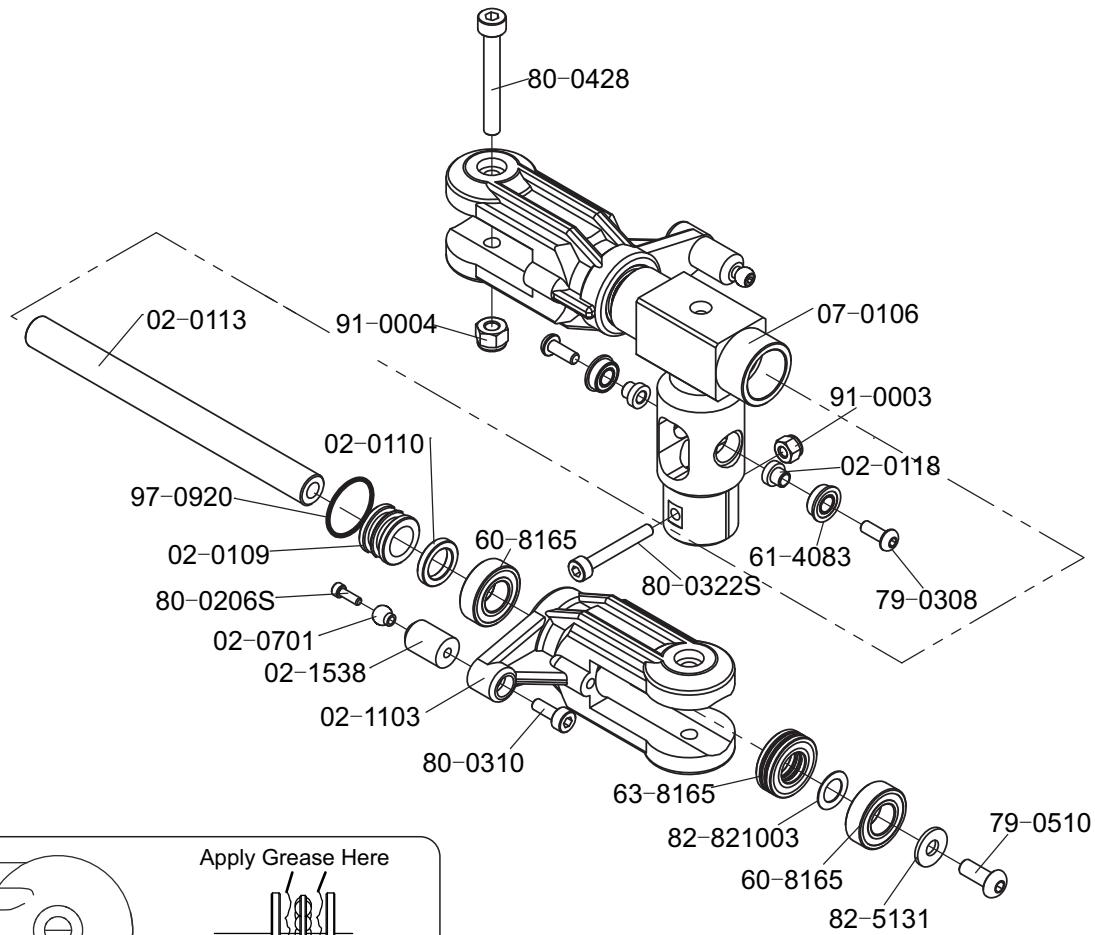


### How to order your parts!

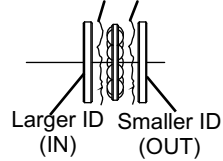
1. Check part number on the drawing
2. Use the part number to find the ORDER number on the list
3. Only use ORDER number for your parts order

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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)

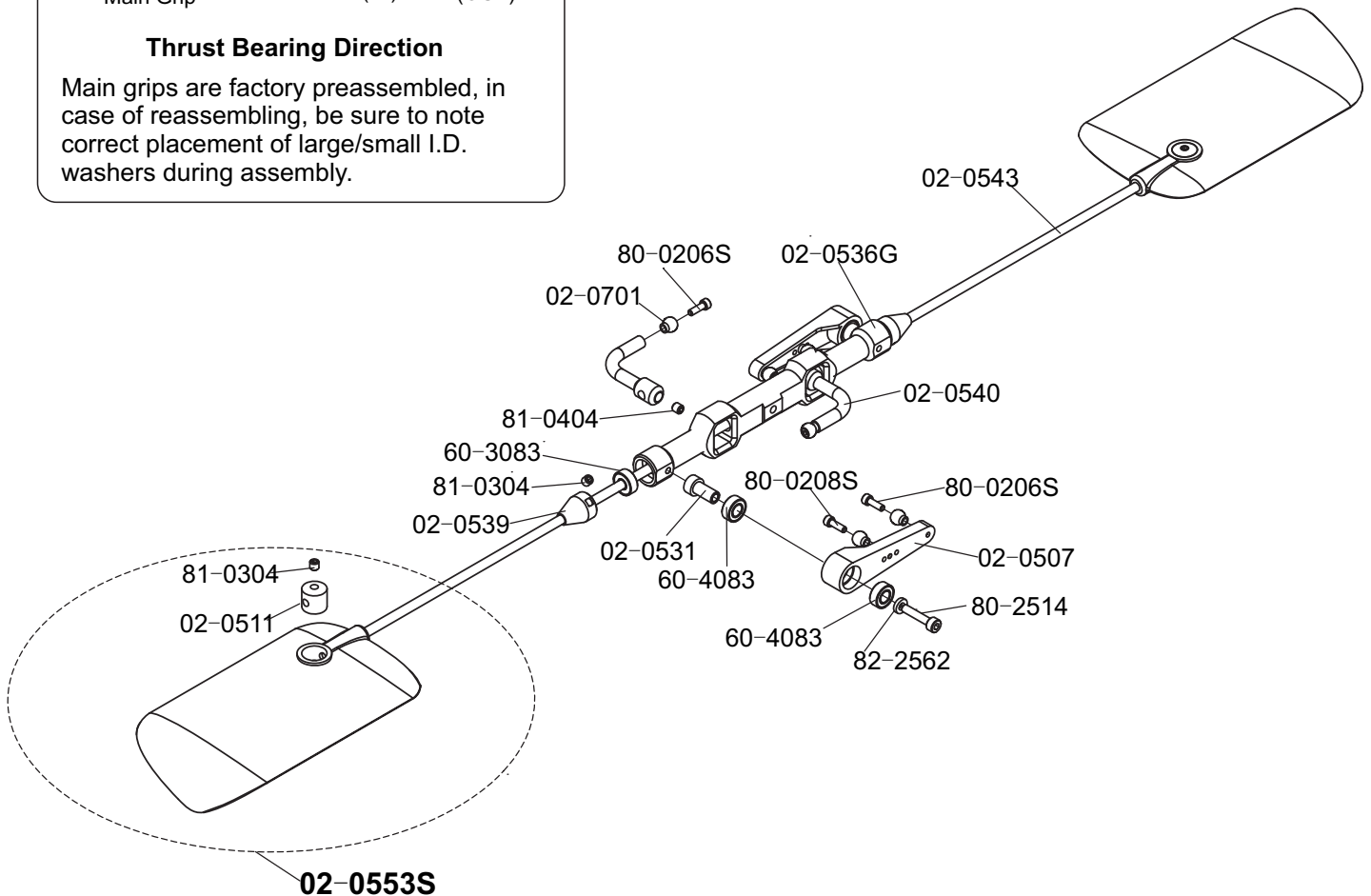


Apply Grease Here



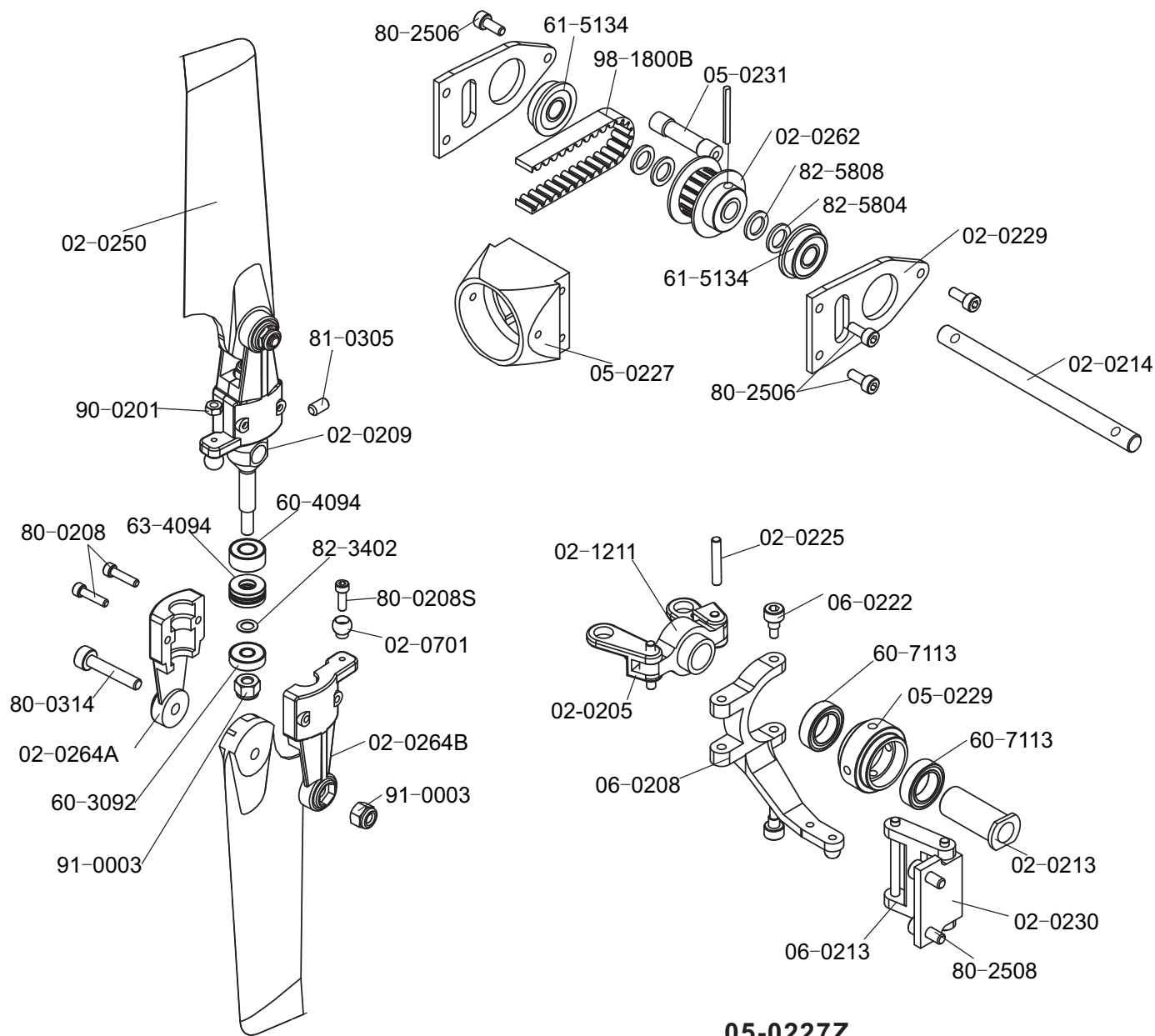
### Thrust Bearing Direction

Main grips are factory preassembled, in case of reassembling, be sure to note correct placement of large/small I.D. washers during assembly.

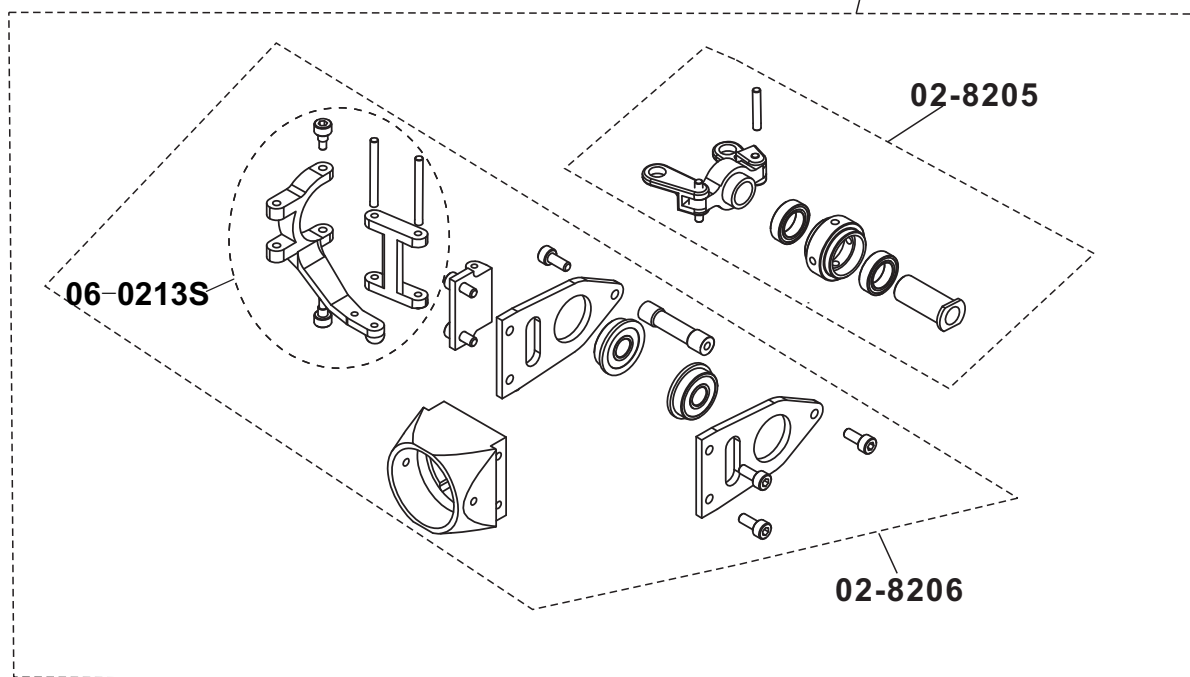




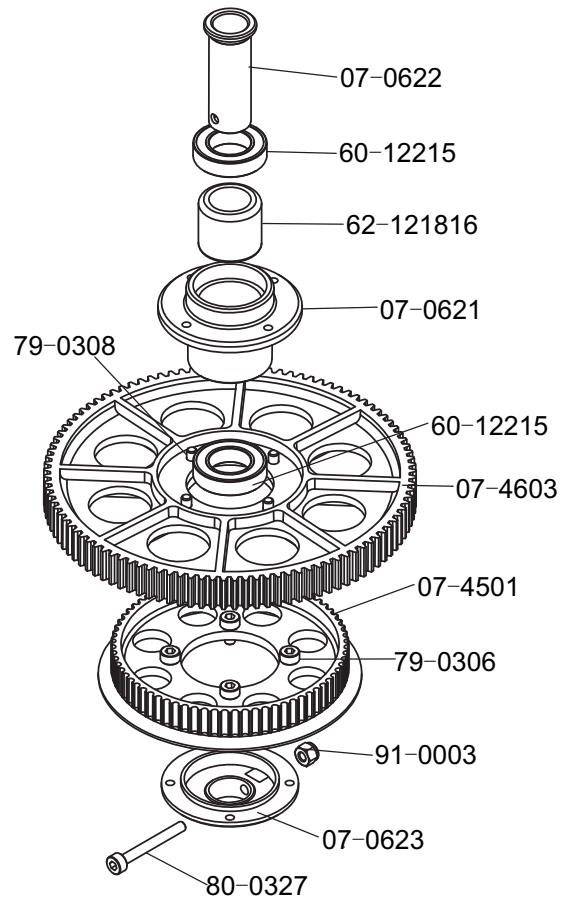
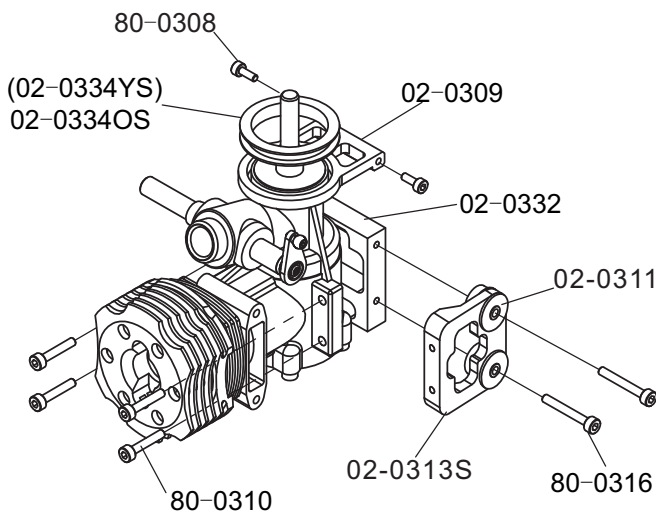
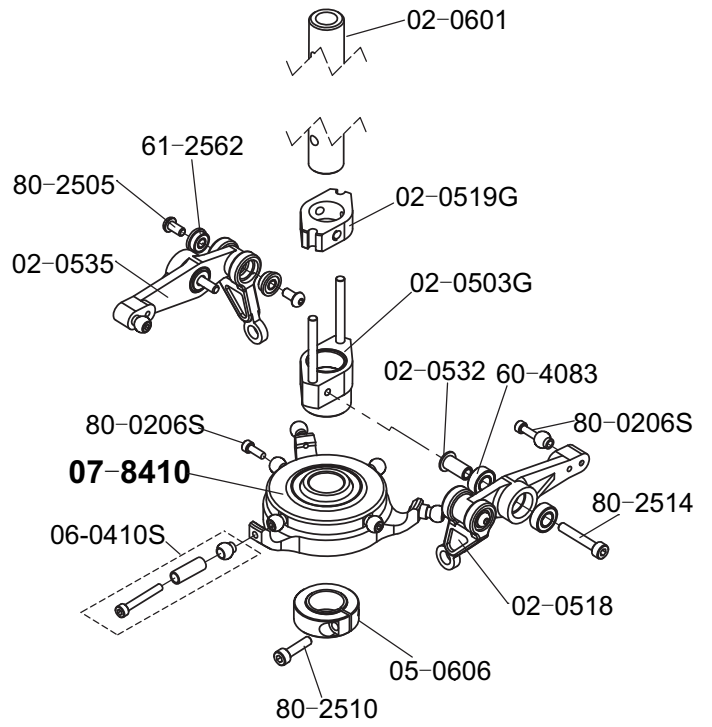
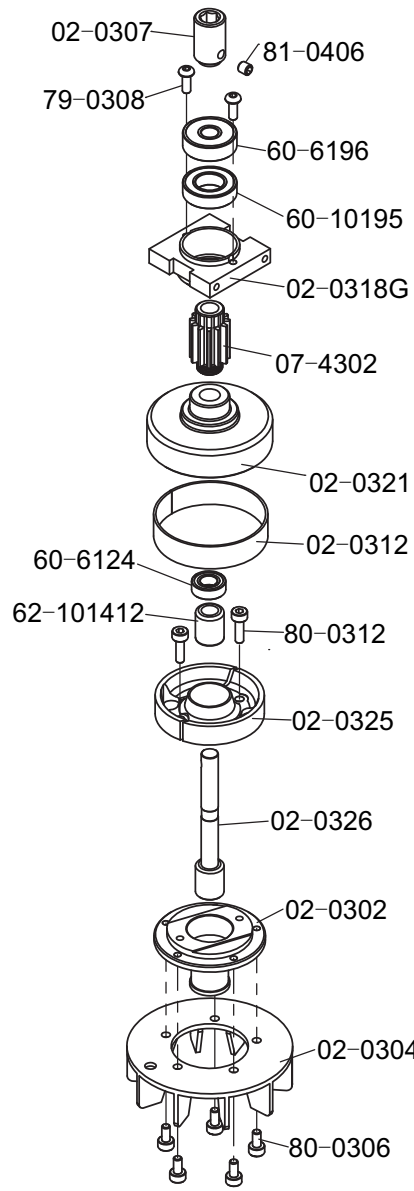
<b>Part No.</b>	<b>Part Description</b>	<b>Order No.</b>	<b>Order Description</b>	<b>Qty,</b>
02-0109	Delrin Dampener 8mm	<b>02-0109</b>	Delrin Dampeners 8mm	2 pcs/bag
02-0110	Spindle Washer 8mm	<b>02-0110</b>	Spindle Washers 8mm	2 pcs/bag
02-0113	Spindle Shaft 8mm	<b>02-0113</b>	Spindle Shafts 8mm	2 pcs/bag
02-0118	Flybar Collar	<b>02-0118</b>	Flybar Collars	2 pcs/bag
02-0507	Mixing Arm	<b>02-0507</b>	Mixing Arm set	2 pcs/bag
02-0511	Paddle Insert	<b>02-0553S</b>	Paddle set	2 pcs/bag
02-0531	Mixing Arm Bushing	<b>02-0531S</b>	Bushing set (3 sizes)	6 pcs/bag
02-0536G	Flybar Holder	<b>02-0536G</b>	Flybar Holder w; Bearings	1 pcs/bag
02-0539	Flybar Collar	<b>02-0539</b>	Flybar Collars	2 pcs/bag
02-0540	Flybar Control Arm	<b>02-0540s</b>	Flybar Control Arm set	2 pcs/bag
02-0543	Flybar	<b>02-0543</b>	Flybars	2 pcs/bag
02-0553	Paddle	<b>02-0553S</b>	Paddle set	2 pcs/bag
02-0701	Stainless Link Ball	<b>02-0701</b>	Stainless Link Balls	10 pcs/bag
02-1103	Main Blade Holder 8mm	<b>02-1103</b>	Main Blade Holder set 8mm	2 pcs/bag
02-1538	Control Ball Spacer	<b>02-1538</b>	Control Ball Spacer set	2 pcs/bag
07-0106	Rotor Hub	<b>07-0106</b>	Rotor Hub set	1 set/bag
60-3083	Ball Bearing 3x8x3	<b>60-3083</b>	Ball Bearings 3x8x3	5 pcs/bag
60-4083	Ball Bearing 4x8x3	<b>60-4083</b>	Ball Bearings 4x8x3	5 pcs/bag
60-8165	Ball Bearing 8x16x5	<b>60-8165</b>	Ball Bearings 8x16x5	2 pcs/bag
61-4083	Flanged Bearing 4x8x3	<b>61-4083</b>	Flanged Bearings 4x8x3	5 pcs/bag
63-8165	Thrust Bearing 8x16x5	<b>63-8165</b>	Thrust Bearings 8x16x5	2 set/bag
79-0308	Button Head Bolt M3x8	<b>79-0308</b>	Button Head Bolts M3x8	10 pcs/bag
79-0510	Button Head Bolt M5x10	<b>79-0510</b>	Button Head Bolts M5x10	10 pcs/bag
80-0206S	Cap Head Bolt M2x6	<b>80-0206S</b>	Cap Head Bolts M2x6	10 pcs/bag
80-0208S	Cap Head Bolt M2x8	<b>80-0208s</b>	Cap Head Bolt M2x8	10 pcs/bag
80-0310	Cap Head Bolt M3x10	<b>80-0310</b>	Cap Head Bolts M3x10	10 pcs/bag
80-0322S	Shanked Bolt M3x22	<b>80-0322S</b>	Shanked Bolts M3x22	2 pcs/bag
80-0428	Shanked Bolt M4x28	<b>80-0428</b>	Shanked Bolts M4x28	2 pcs/bag
80-2514	Cap Head Bolt M2.5x14	<b>80-2514</b>	Cap Head Bolts M2.5x14	10 pcs/bag
81-0304	Set Screw M3x4	<b>81-0304</b>	Set Screws M3x4	10 pcs/bag
81-0404	Set Screw M4x4	<b>81-0404</b>	Set Screws M4x4	10 pcs/bag
82-2562	Washer 2.6x5.2x0.3	<b>82-2562</b>	Washers 2.6x5.2x0.3	10 pcs/bag
82-5131	Washer 5.3x13x1	<b>82-5131</b>	Washers 5.3x13x1	10 pcs/bag
82-821003	Washer 8.2x10x0.3	<b>82-821003</b>	Washers 8.2x10x0.3	2 pcs/bag
91-0003	Nylon Lock Nut M3	<b>91-0003</b>	Nylon Lock Nuts M3	10 pcs/bag
91-0004	Nylon Lock Nut M4	<b>91-0004</b>	Nylon Lock Nuts M4	10 pcs/bag
97-0920	Rubber O-Ring 13x9x2	<b>97-0920</b>	Rubber O-Ring set 13x9x2	4 pcs/bag



**05-0227Z**

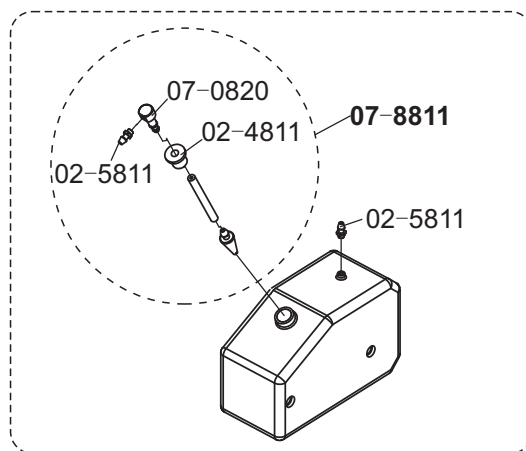
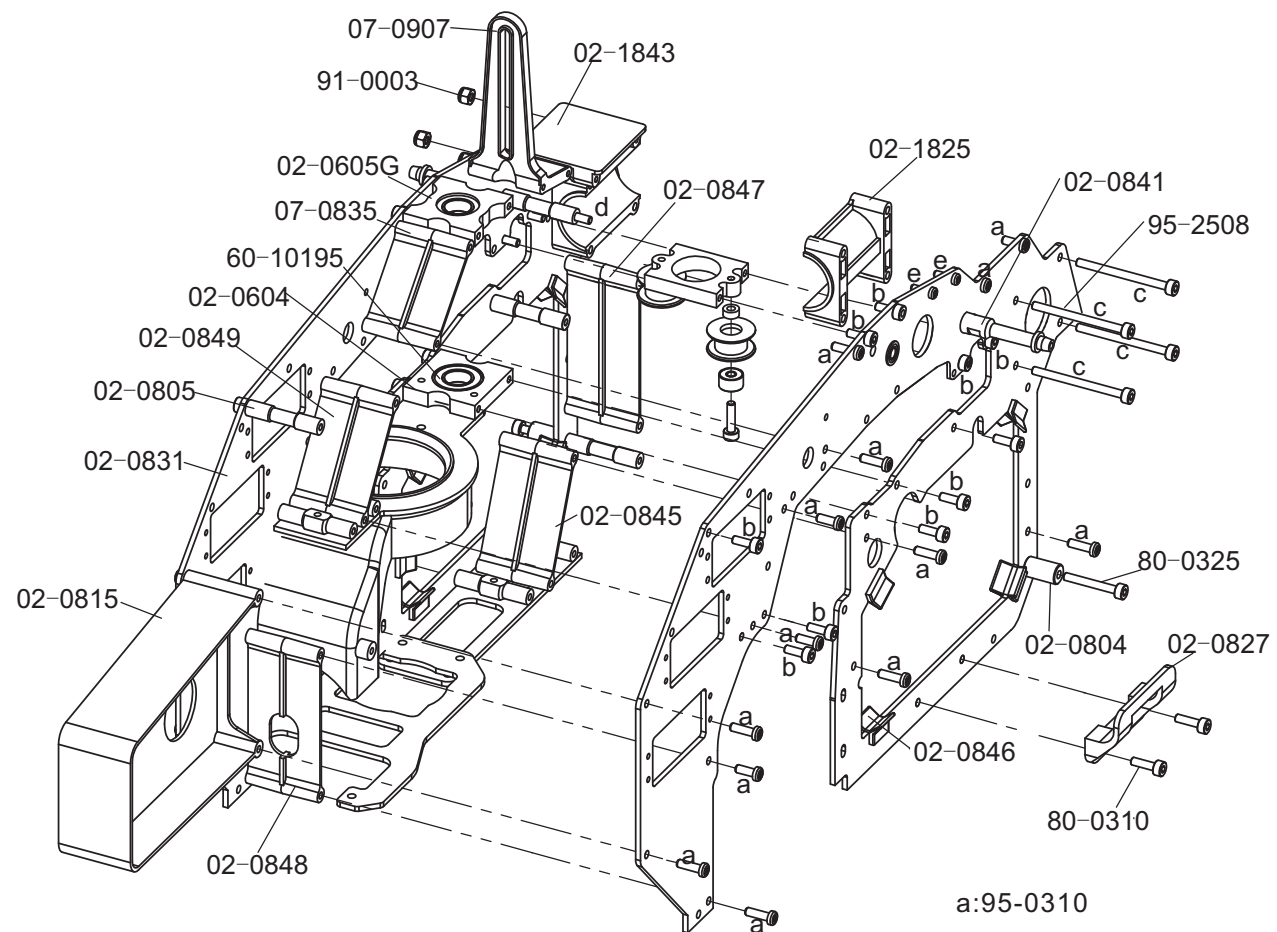


<b>Part No.</b>	<b>Part Description</b>	<b>Order No.</b>	<b>Order Description</b>	<b>Qty,</b>
02-0205	Tail Blade Link	<b>02-0205S</b>	Tail Blade Links w, Pin	2 pcs/bag
02-0209	Tail Rotor Hub	<b>02-0209</b>	Tail Rotor Hub	1 pcs/bag
02-0213	Tail Pitch Slider	<b>02-0213</b>	Tail Pitch Slider	1 pcs/bag
02-0214	Tail Shaft	<b>02-0214</b>	Tail Shafts	2 pcs/bag
02-0225	Grooved Pin	<b>02-0205S</b>	Provided w, 02-0205S	
02-0229	Gear box frame	<b>02-0229Z</b>	Gear box frame w, BB	1 set/bag
02-0230	Tail hinge	<b>02-0230S</b>	Tail Hing with Pin	1 set/bag
02-0250	Tail Blade	<b>02-0250</b>	Tail Blade set	2 pcs/bag
02-0262	Tail rotor pulley	<b>02-0262S</b>	Tail rotor pulley with spring pin	1 pcs/bag
02-0264AB	Tail blade holder	<b>02-0264AB</b>	Tail blade holder	2 pcs/bag
02-0701	Stainless Link Ball	<b>02-0701</b>	Stainless Link Balls	10 pcs/bag
02-1211	Tail pitch plate w, BB	<b>02-1211</b>	Tail pitch plate w, BB	1 pcs/bag
02-8205	Tail Pitch Control unit	<b>02-8205</b>	Tail Pitch Control unit	1 set/bag
02-8206	Tail Case Set	<b>02-8206</b>	Tail Case Set	1 set/bag
05-0227	Gear box set	<b>05-8227Z</b>	Gear box set	1 set/bag
05-0229	Tail pitch slider	<b>05-0229S</b>	Tail Pitch Slider w. BB	1 pcs/bag
05-0231	Gear Box Member	<b>05-0231</b>	Gear Box Member	2 pcs/bag
06-0208	Tail pitch arm	<b>06-0213S</b>	Tail pitch arm w, H-arm & Pin	1 set/bag
06-0213	Tail pitch H arm	<b>06-0213S</b>	Tail pitch arm w, H-arm & Pin	1 set/bag
06-0222	Guide Pin Bolt	<b>06-0222</b>	Guide Pin Bolts	2 pcs/bag
60-3092	Ball Bearing 3x9x2.5	<b>60-3092</b>	Ball Bearings 3x9x2.5	4 pcs/bag
60-4094	Ball Bearing 4x9x4	<b>60-4094</b>	Ball Bearings 4x9x4	5 pcs/bag
60-7113	Ball Bearing 7x11x3	<b>60-7113</b>	Ball Bearings 7x11x3	2 pcs/bag
61-5134	Flanged Bearing 5x13x4	<b>61-5134</b>	Flanged Bearings 5x13x4	2 pcs/bag
63-4094	Thrust Bearing 4x9x4	<b>63-4094</b>	Thrust Bearings 4x9x4	2 pcs/bag
80-0208	Cap Head Bolt M2x8	<b>80-0208</b>	Cap Head Bolts M2x8	10 pcs/bag
80-0208S	Cap Head Bolt M2x8	<b>80-0208S</b>	Cap Head Bolts M2x8	10 pcs/bag
80-0314	Cap head Bolt M3x14	<b>80-0314</b>	Cap head Bolts M3x14	10 pcs/bag
80-2506	Cap Head Bolt M2.5x6	<b>80-2506</b>	Cap Head Bolts M2.5x6	10 pcs/bag
80-2508	Cap Head Bolt M2.5x8	<b>80-2508</b>	Cap Head Bolts M2.5x8	10 pcs/bag
81-0305	Set Screw	<b>81-0305</b>	Set Screw	10 pcs/bag
82-3402	Washer 3.2x5.2x0.3	<b>82-3402</b>	Washer 3.2x5.2x0.3	10 pcs/bag
82-5804	Washer 5x8x0.4	<b>82-5804</b>	Washer 5x8x0.4	10 pcs/bag
82-5808	Washer 5x8x0.8	<b>82-5808</b>	Washer 5x8x0.8	10 pcs/bag
90-0201	Hexagonal nut2x1	<b>90-0201</b>	Hexagonal nut2x1	10 pcs/bag
91-0003	Nylon Lock Nut M3	<b>91-0003</b>	Nylon Lock Nuts M3	10 pcs/bag
98-1800B	Tail belt 3M1800 Bando	<b>98-1800B</b>	Tail belt 3M1800 Bando	1 pcs/bag



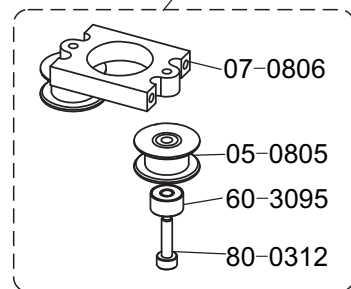
Part No.	Part Description	Order No	Order Description	Qty,
02-0302	Cooling Fan Hub	<b>02-0302</b>	Cooling Fan Hub	1 pcs/bag
02-0304	Cooling Fan	<b>02-0304</b>	Cooling Fan	1 pcs/bag
02-0307	Starter Coupling	<b>02-0307S</b>	Starter Coupling	1 pcs/bag
02-0309	Crank Case Holder	<b>02-0309</b>	Crank Case Holder	1 pcs/bag
02-0311	Engine Dampener	<b>02-0311</b>	Engine Dampener set	2 pcs/bag
02-0312	Clutch Liner	<b>02-0312</b>	Clutch Liner	1 pcs/bag
02-0313S	Engine Mount Set	<b>02-0313S</b>	Engine Mount Set	1 set/bag
02-0318G	Starter Bearing Block	<b>02-0318G</b>	Starter Bearing Block	1 pcs/bag
02-0321	Clutch Bell	<b>02-0321Z</b>	Clutch Bell set	1 set/bag
02-0325	Clutch	<b>02-0325Z</b>	Clutch set	1 pcs/bag
02-0326	Start Shaft	<b>02-0326</b>	Start Shaft set	1 pcs/bag
02-0332	Engine Mount Base	<b>02-0332</b>	Engine Mount Base	1 pcs/bag
02-0334OS	Crank Case Dampener OS	<b>02-0334OS</b>	Crank Case Dampener OS	1 pcs/bag
02-0334YS	Crank Case Dampener YS	<b>02-0334YS</b>	Crank Case Dampener YS	1 pcs/bag
02-0503G	Washout Base (grey)	<b>02-0503G</b>	Washout Base (grey)	1pcs/bag
02-0518	Washout Link	<b>02-0518</b>	Washout Links	2 pcs/bag
02-0519G	Phasing Control Ring (grey)	<b>02-0519G</b>	Phasing Control Ring (grey)	1 pcs/bag
02-0532	Bushing	<b>02-0531S</b>	Bushing set (3 sizes)	6 pcs/bag
02-0535	Washout Control Arm	<b>02-0535</b>	Washout Control Arm set	2 pcs/bag
02-0601	Main Shaft	<b>02-0601</b>	Main Shaft	1 pcs/bag
05-0606	Main Shaft Lock Clamp (Ø	<b>05-0606S</b>	Main Shaft Lock Clamp set (Ø 10mm)	1pcs/bag
06-0410S	Swashplate Pin	<b>06-0410S</b>	Swashplate Pin Set	1 set/bag
07-0621	Autorotation Hub	<b>07-0621Z</b>	Autorotation Hub w, One Way Bearing	1 pcs/bag
07-0622	Autorotation Sleeve	<b>07-0622</b>	Autorotation Sleeve	1 pcs/bag
07-0623	Main Pulley Hub	<b>07-0623</b>	Main Pulley Hub	1 pcs/bag
07-4302	Drive gear	<b>07-4302</b>	Drive gear	1 pcs/bag
07-4501	Main Pulley	<b>07-4501</b>	Main Pulley	1 pcs/bag
07-4603	Main Gear Molded	<b>07-4603</b>	Main Gear Molded	1 pcs/bag
07-8410	Swashplate	<b>07-8410</b>	Swashplate	1 set/bag
60-10195	Ball Bearing 10x19x5	<b>60-10195</b>	Ball Bearing 10x19x5	4 pcs/bag
60-12215	Ball Bearing 12x21x5	<b>60-12215</b>	Ball Bearings 12x21x5	2 pcs/bag
60-4083	Ball Bearing 4x8x3	<b>60-4083</b>	Ball Bearings 4x8x3	5 pcs/bag
60-6124	Ball Bearing 6x12x4	<b>60-6124</b>	Ball Bearings 6x12x4	2 pcs/bag
60-6196	Ball Bearing 6x19x6	<b>60-6196</b>	Ball Bearings 6x19x6	2 pcs/bag
61-2562	Flanged Bearing 2.5x6x2.6	<b>61-2562</b>	Flanged Bearings 2.5x6x2.6	10 pcs/bag
62-101412	One Way Bearing 10x14x12	<b>62-101412</b>	One Way Bearing 10x14x12	1 set/bag
62-121816	One Way Bearing 12x18x16	<b>62-121816</b>	One Way Bearing 12x18x16	1 pcs/bag
79-0306	Button Head Bolt M3x6	<b>79-0306</b>	Button Head Bolts M3x6	10 pcs/bag
79-0308	Button Head Bolt M3x8	<b>79-0308</b>	Button Head Bolts M3x8	10 pcs/bag
80-0206S	Cap Head Bolt M2x6	<b>80-0206S</b>	Cap Head Bolts M2x6	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
80-0310	Cap Head Bolt M3x10	<b>80-0310</b>	Cap Head Bolts M3x10	10 pcs/bag
80-0316	Cap Head Bolt M3x12	<b>80-0316</b>	Cap Head Bolts M3x12	10 pcs/bag
80-0327	Shanked Bolt M3x27	<b>80-0327</b>	Shanked Bolts M3x27	2 pcs/bag
80-2505	Button Head Bolt M2.5X5	<b>80-2505</b>	Button Head Bolts M2.5X5	10 pcs/bag
80-2514	Cap Head Bolt M2.5x15	<b>80-2514</b>	Cap Head Bolts M2.5x15	10 pcs/bag
81-0406	Set Screw M4x6	<b>81-0406</b>	Set Screws M4x6	10 pcs/bag
91-0003	Nylon Lock Nut M3	<b>91-0003</b>	Nylon Lock Nuts M3	10 pcs/bag



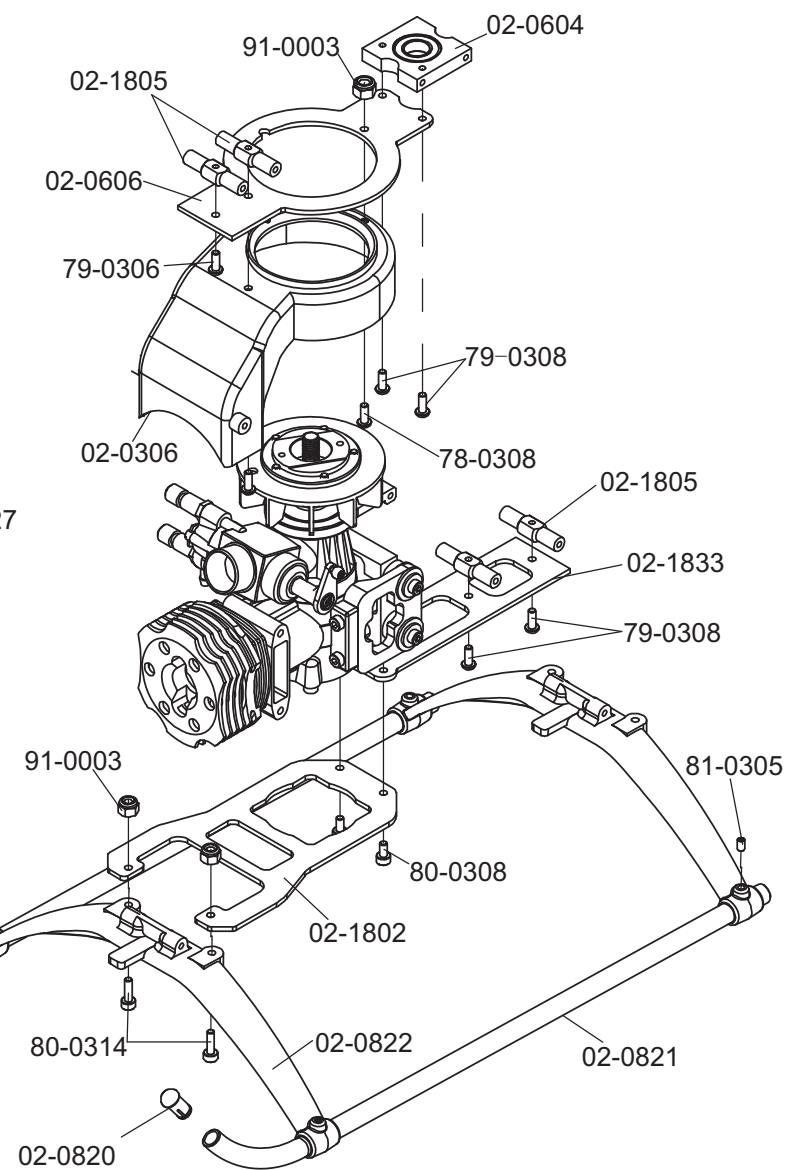


**02-8811**

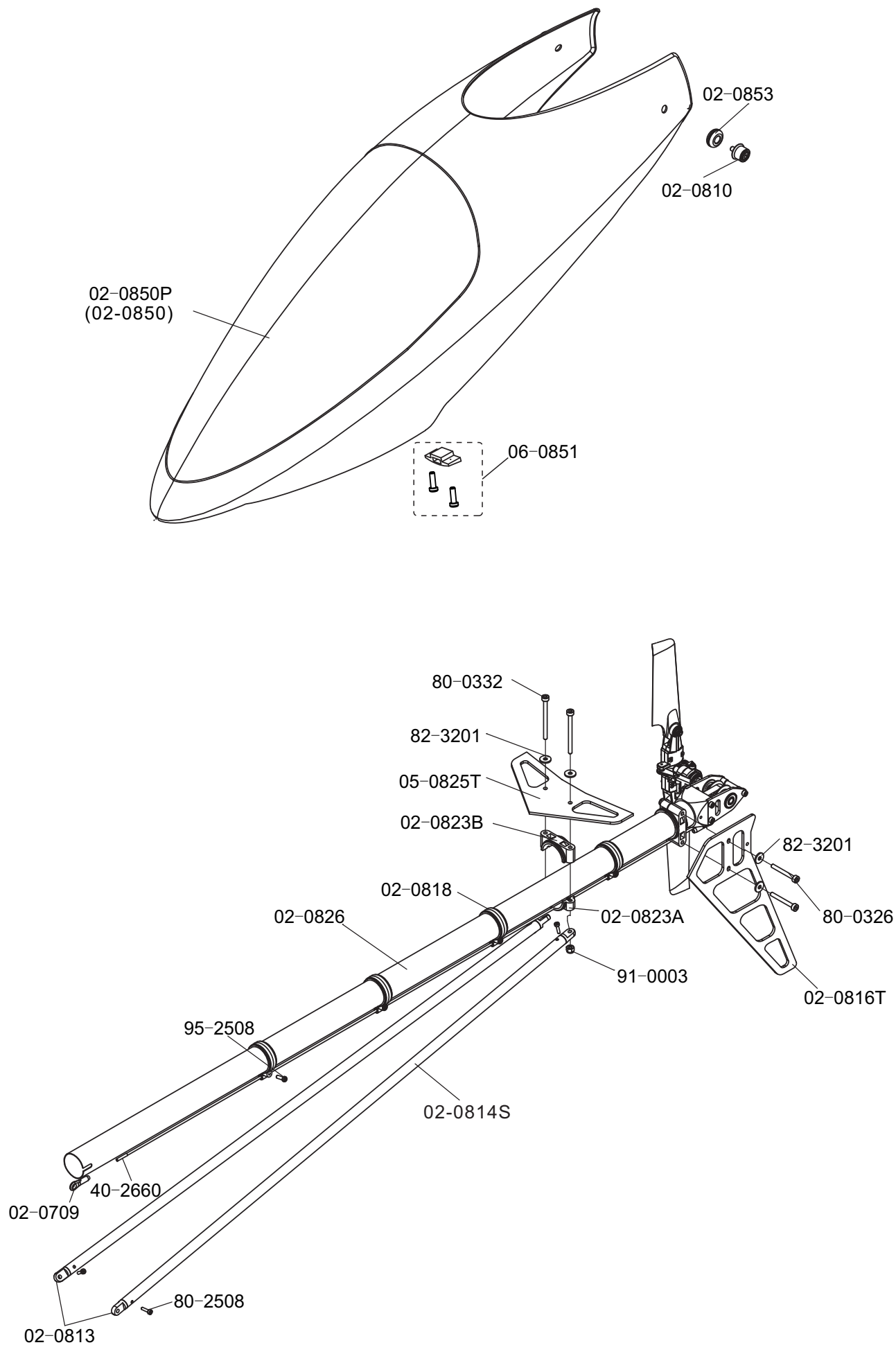
**07-8302**



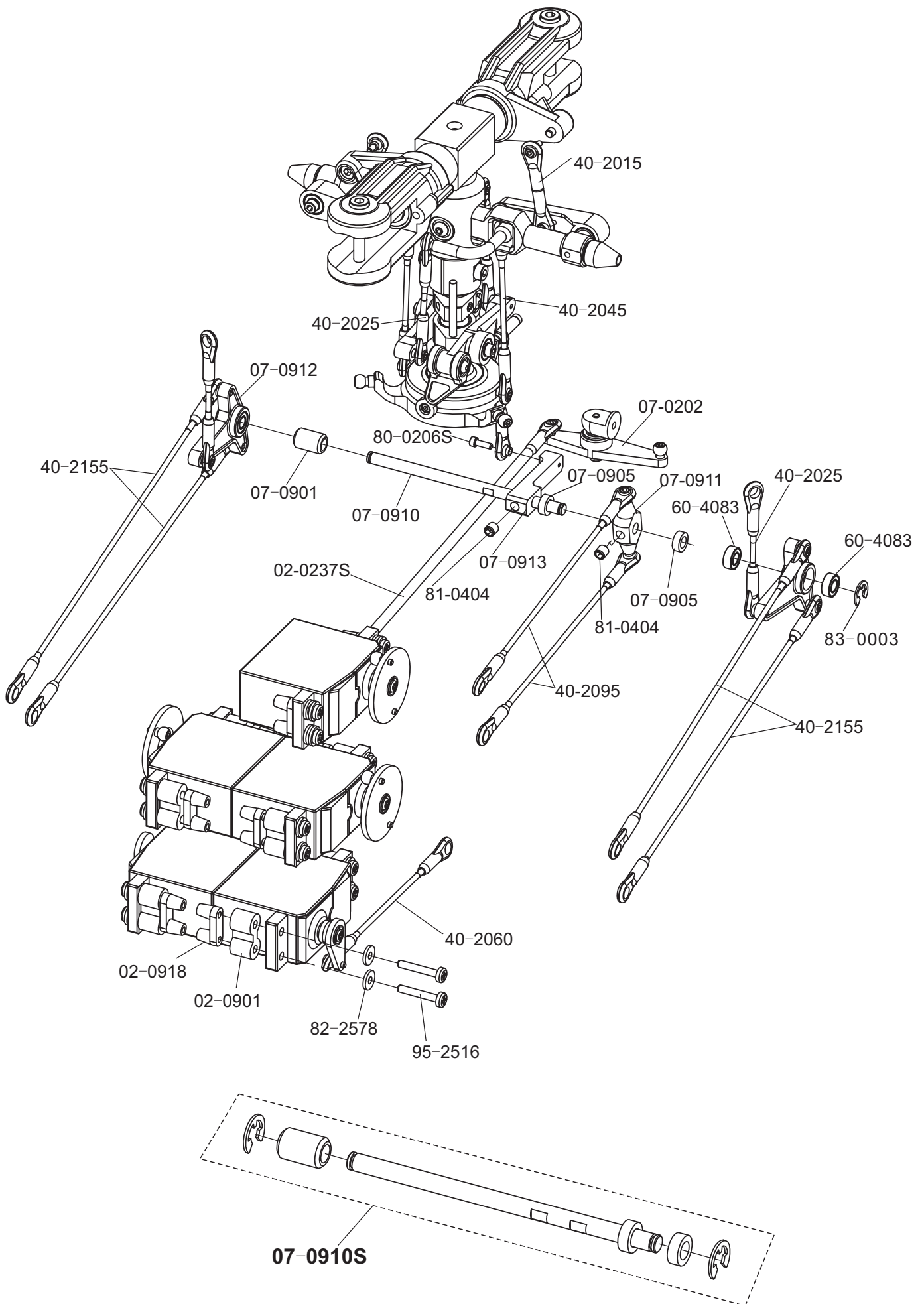
a:95-0310  
b:80-0306  
c:80-0338  
d:81-0316  
e:95-2508



<b>Part No.</b>	<b>Part Description</b>	<b>Order No.</b>	<b>Order Description</b>	<b>Qty,</b>
02-0306	Cooling fan shroud (3D Plus)	<b>02-0306</b>	Cooling fan shroud (3D Plus)	1 pcs/bag
02-0604	Bearing block lower	<b>02-0604Z</b>	Bearing block lower set	1 pcs/bag
02-0605G	Bearing block upper	<b>02-0605G</b>	Bearing block upper set	1 pcs/bag
02-0606	Fan Shroud Mount	<b>02-0606</b>	Fan Shroud Mount set	1 pcs/bag
02-0804	Frame Spacer 13.5mm	<b>02-0804</b>	Frame Spacer set 13.5mm	4 pcs/bag
02-0805	Cross Member M3x30	<b>02-0805</b>	Cross Member set M3x30	5 pcs/bag
02-0815	Battery Tray (3Dplus)	<b>02-0815</b>	Battery Tray (3Dplus)	1 pcs/bag
02-0820	Skid End Cap	<b>02-0820</b>	Skid End Cap set	4 pcs/bag
02-0821	Landing Gear Skid	<b>02-0821</b>	Landing Gear Skids w. Caps	2 pcs/bag
02-0822	Landing Gear Strut (3D Plus)	<b>02-0822</b>	Landing Gear Struts (3D Plus)	2 pcs/bag
02-0827	Tank Mount	<b>02-0827</b>	Tank Mount set	2 pcs/bag
02-0831	Main Frame	<b>02-0831</b>	Main Frame set	2 pcs/bag
02-0841	Canopy Standoff	<b>02-0841S</b>	Canopy Standoff set	4 pcs/bag
02-0845	Frame Member	<b>02-0845S</b>	Frame Member set	4 pcs/bag
02-0846	Tank Dampener	<b>02-0846</b>	Tank Dampener set	8 pcs/bag
02-0847	Frame Member	<b>02-0845S</b>	Frame Member set	4 pcs/bag
02-0848	Frame Member	<b>02-0845S</b>	Frame Member set	4 pcs/bag
02-0849	Frame Member	<b>02-0845S</b>	Frame Member set	4 pcs/bag
02-1802	Bottom Frame Stiffener	<b>02-1802</b>	Bottom Frame Stiffener	1 pcs/bag
02-1805	Cross Member Mount M3x30	<b>02-1805</b>	Cross Member Mount set M3x30	2 pcs/bag
02-1825	Tail Boom Mount	<b>02-1825s</b>	Tail Boom Mount set	1 set/bag
02-1833	Back Frame Stiffener	<b>02-1833</b>	Back Frame Stiffener	1 pcs/bag
02-1843	Gyro Tray plastic	<b>02-1843</b>	Gyro Tray plastic	1 pcs/bag
02-4811	Tank Cap	<b>02-4811</b>	Tank Cap	1 pcs/bag
02-5811	Nozzle	<b>02-5811</b>	Nozzle	1 pcs/bag
02-8811	Fuel Tank Assembly	<b>02-8811</b>	Fuel Tank Assembly	1 set/bag
05-0805	Guide Pulley	<b>05-0805Z</b>	Guide Pulley set	2 pcs/bag
07-0806	Guide Pulley Mount	<b>07-0806</b>	Guide Pulley Mount	1 pcs/bag
07-0820	Tank Cap Connector	<b>07-0820</b>	Tank Cap Connector	1 pcs/bag
07-0835	Frame Member	<b>07-0835</b>	Frame Member	1 pcs/bag
07-0907	Swashplate Guide	<b>07-0907</b>	Swashplate Guide	1 pcs/bag
07-8302	Guide Pulley set	<b>07-8302</b>	Guide Pulley Set	1 set/bag
07-8811	Tank Fitting (3D Plus)	<b>07-8811</b>	Tank Fitting set (3D Plus)	1 set/bag
60-10195	Ball Bearings 10x19x5	<b>60-10195</b>	Ball Bearings 10x19x5	4 pcs/bag
60-3095	Ball Bearing 3x9x5	<b>60-3095</b>	Ball Bearings 3x9x5	2 pcs/bag
78-0308	Flat Head Bolt M3x8	<b>78-0308</b>	Flat Head Bolts M3x8	10 pcs/bag
79-0306	Button Head Bolt M3x6	<b>79-0306</b>	Button Head Bolts M3x6	10 pcs/bag
79-0308	Button Head Bolt M3x8	<b>79-0308</b>	Button Head Bolts M3x8	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 M3x6	<b>80-0308</b>	Cap Head Bolts M3x8	10 pcs/bag
80-0310	Cap Head Bolt M3x10	<b>80-0310</b>	Cap Head Bolts M3x10	10 pcs/bag
80-0312	Cap Head Bolt M3x12	<b>80-0312</b>	Cap Head Bolts M3x12	10 pcs/bag
80-0314	Cap Head Bolt M3x14	<b>80-0314</b>	Cap Head Bolts M3x14	10 pcs/bag
80-0325	Cap Head Bolt M3x25	<b>80-0325</b>	Cap Head Bolts M3x25	10 pcs/bag
80-0338	Cap Head Bolt M3x38	<b>80-0338</b>	Cap Head Bolts M3x38	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
91-0003	Nylon Lock Nut M3	<b>91-0003</b>	Nylon Lock Nuts M3	10 pcs/bag
95-0310	Self Tapping Bolt 3x10	<b>95-0310</b>	Self Tapping Bolts 3x10	10 pcs/bag
95-2508	Self Tapping Bolt 2.5x8	<b>95-2508</b>	Self Tapping Bolts 2.5x8	10 pcs/bag



<b>Part No.</b>	<b>Part Description</b>	<b>Order No.</b>	<b>Order Description</b>	<b>Qty,</b>
02-0709	Ball Link	<b>02-0709</b>	Ball Links	10 pcs/bag
02-0810SG	Thumb Screw (gold)	<b>02-0810SG</b>	Thumb Screw set (gold)	4 pcs/bag
02-0813	Tail Boom Brace Connector	<b>02-0813S</b>	Tail Boom Brace Connector set	4 pcs/bag
02-0814S	Tail Boom Brace 530mm	<b>02-0814S</b>	Tail Boom Brace set 530mm	2 pcs/bag
02-0816T	Vertical Fin Carbon (3Dplus)	<b>02-0816T</b>	Vertical Fin Carbon (3Dplus)	1 pcs/bag
02-0818	Tail cControl Rod Guide Clamp	<b>02-0818S</b>	Tail cControl Rod Guide Clamp set	4 pcs/bag
02-0823AB	Tail Boom Support Clamp	<b>02-0823AB</b>	Tail Boom Support Clamp	1 set/bag
02-0826	Tail Boom 705mm	<b>02-0826</b>	Tail Boom 705mm	2 pcs/bag
02-0850	Fiberglass Canopy (3D Plus)	<b>02-0850</b>	Fiberglass Canopy (3D Plus)	1 pcs/bag
02-0850P	Painted FG Canopy (3DPlus)	<b>02-0850P</b>	Painted FG Canopy (3D Plus)	1 pcs/bag
02-0853	Canopy Rubber Grommet	<b>02-0853</b>	Canopy Rubber Grommet set	10 pcs/bag
05-0825T	Horizontal Fin Carbon (3Dplus)	<b>05-0825T</b>	Horizontal Fin Carbon (3Dplus)	1 pcs/bag
06-0851	Canopy Insert	<b>06-0851</b>	Canopy Insert	1 set/bag
40-2660	Tail Control Rod 2X660	<b>40-2660S</b>	Tail Control Rod 2X660	1 pcs/bag
80-0326	Cap Head Bolt M3x26	<b>80-0326</b>	Cap Head Bolts M3x26	10 pcs/bag
80-0332	Cap Head Bolt M3x32	<b>80-0332</b>	Cap Head Bolts M3x32	10 pcs/bag
80-2508	Cap Head Bolt M2.5x8	<b>80-2508</b>	Cap Head Bolts M2.5x8	10 pcs/bag
82-3201	Washer 3.2x10x1.2	<b>82-3201</b>	Washers 3.2x10x1.2	10 pcs/bag
91-0003	Nylon Lock Nut M3	<b>91-0003</b>	Nylon Lock Nuts M3	10 pcs/bag
95-2508	Self Tapping Bolt 2.5x8	<b>95-2508</b>	Self Tapping Bolts 2.5x8	10 pcs/bag





Part No.	Part Description	Order No.	Order Description	Qty,
02-0237	Carbon Tail Control Rod	<b>02-0237S</b>	Carbon Tail Control Rod set	1 set/bag
02-0901	Servo Spacer (3D Plus)	<b>02-0901</b>	Servo Spacers (3D Plus)	8 pcs/bag
02-0918	Servo Nut	<b>02-0918</b>	Servo Nuts	5 pcs/bag
07-0202	Tail Control Arm	<b>07-0202S</b>	Tail Control Arm set	1 set/bag
07-0901	Shaft Collar 10.6mm	<b>07-0910S</b>	Provided w, 07-0910S	
07-0905	Shaft Collar 2.5mm	<b>07-0910S</b>	Provided w, 07-0910S	
07-0910	Arm Shaft	<b>07-0910S</b>	Arm Shaft set	1 set/bag
07-0911	I-Arm	<b>07-0911</b>	I-Arm set	1 set/bag
07-0912	T-Lever	<b>07-0912</b>	T-Lever set	2 pcs/bag
07-0913	Elevator Arm	<b>07-0913</b>	Elevator Arm	1 pcs/bag
40-2015	Link Rod 15mm	<b>E-LG-06</b>	Link Rod set (3D Plus)	1 set/bag
40-2025	Link Rod 25mm	<b>E-LG-06</b>		1 set/bag
40-2045	Link Rod 45mm	<b>E-LG-06</b>		1 set/bag
40-2155	Link Rod 155mm	<b>E-LG-06</b>		1 set/bag
40-2060	Link Rod 60mm	<b>E-LG-06</b>		1 set/bag
40-2095	Link Rod 95mm	<b>E-LG-06</b>		1 set/bag
60-4083	Ball Bearing 4x8x3	<b>60-4083</b>	Ball Bearings 4x8x3	5 pcs/bag
80-0206S	Cap Head Bolt M2x6	<b>80-0206S</b>	Cap Head Bolts M2x6	10 pcs/bag
81-0404	Set Screw M4x4	<b>81-0404</b>	Set Screws M4x4	10 pcs/bag
82-2578	Washer 2.7x7x0.8	<b>82-2578</b>	Washers 2.7x7x0.8	10 pcs/bag
83-0003	E-ring 3.1mm	<b>82-2578</b>	Washers 2.7x7x0.8	10 pcs/bag
95-2516	Self Tapping Bolt 2.5x16	<b>95-2516</b>	Self Tapping Bolts 2.5x16	10 pcs/bag

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