

Compass

HIGH VOLTAGE 3-D HELICOPTER

6HV

Length: 1270mm

Rotor ø : 1360mm

Weight w. Batteries 3300mAh: 3.15kg

Rotor Blades: 600 to 620mm

POWERED BY

LIGHTNING



Precision ECCPM 120° Metal Swashplate
Dual Pin Zero-Slop Tail Mechanism
High-Torque BL Motor
Pre-Assembled Reinforced Main Gear
High Quality Painted FG Canopy

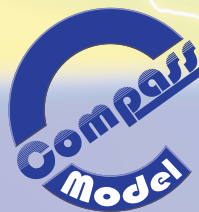
Always use proper safety procedures when using RC aircraft

Fly at your own RISK!

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Manufactured By:
CE COMPASS MODEL LTD.

Instruction Manual

www.compassmodel.com



Introduction

Congratulations on your purchase of the Compass Model Atom 6HV 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 6HV 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 6HV, 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 its own security application which cannot be laid down here so prior to any flight request the rules to apply in your country/Flying field.

Attention: Atom 6HV Limitations

Atom 6HV Max. rotor head rpm: 2000 U/min

Atom 6HV Max. collective pitch range: +/- 12°

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 brushless motor is disconnected.

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.

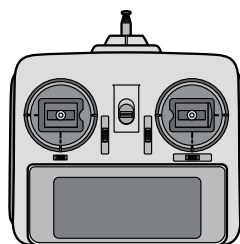
3 standard servos.

1 gyro with rudder servo.

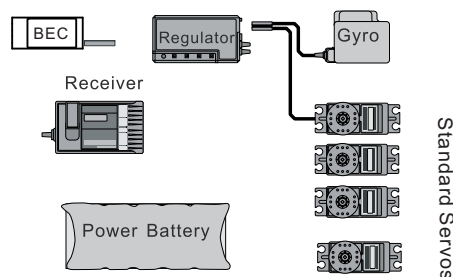
1x LiPo Battery 12S

or 2 packs 6S 2500~3300mah.

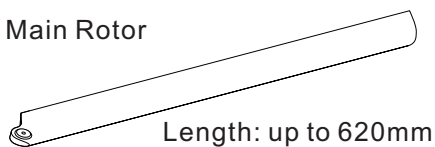
1x HV/BEC 12S.



Transmitter



Main Rotor



Length: up to 620mm



Threadlock



Grease



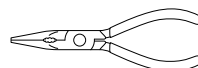
Bearing Retainer



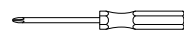
Hex Wrench Set
(1.5mm, 2mm, 2.5mm, 3mm)



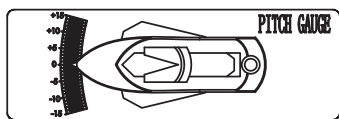
Cutter Knife



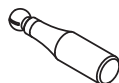
Needle Nose Pliers



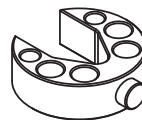
Screw Driver



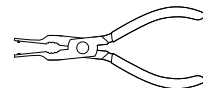
Pitch Gauge



Ball Link Sizing Tool



Swash Plate Tool



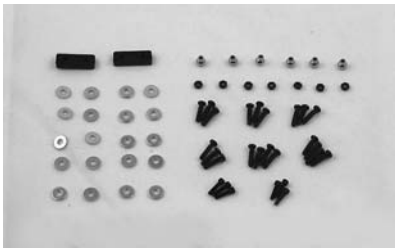
Ball Plier

Pre-assembly Information

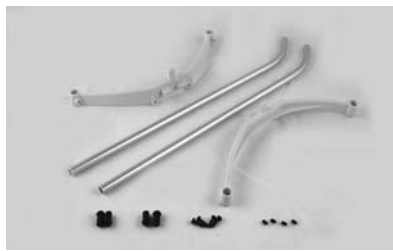
When first opening your Atom kit, you will notice that all of the parts are packaged and numbered to coordinate with the assembly step numbers of this instruction manual. All small hardware (nuts, bolts, washers, etc.) for each step are packaged separately within the main parts bags. When beginning a 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.



Step 1



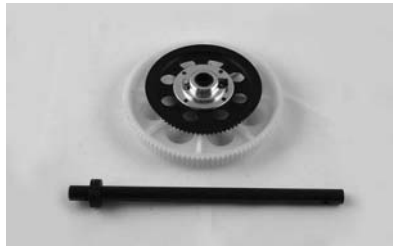
Step 2



Step 3



Tail Set



Step 4



Step 5



Rotor Set



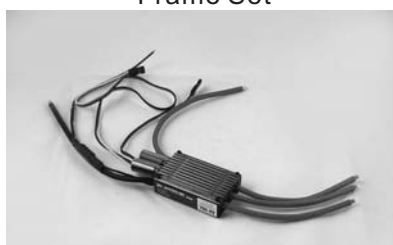
Frame Set



Long Item



Step 7



70A HV ESC



Step 10

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



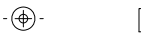
Use Bearing Retainer

- * 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

Servo

0 10 20 30 40

M2.5x10 Self Tapping
Bolt X 16

2.5mm Washer X 16



Plastic Spacer x 4

The Servo installation is done without the supplied Servo Rubbers.

M2.5X10 Self Tapping Bolt

Servo

2.5mm Washer

Servo Spacer

M2.5x10 Self Tapping Bolt

This Servo is installed in between the 2 frames. The Self Tapping Bolts are screwed from the inside.

Servo

M2.5x10 Self Tapping Bolt

2.5mm Washer

②

Landing Gear

0 10 20 30 40

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 gear struts.

M3x10 Self Taping Bolt

Struts

M3x5 Set Screw

Skid Cap

Landing Gear Skid

③

Boom & Tail Rotor



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

Use Threadlock

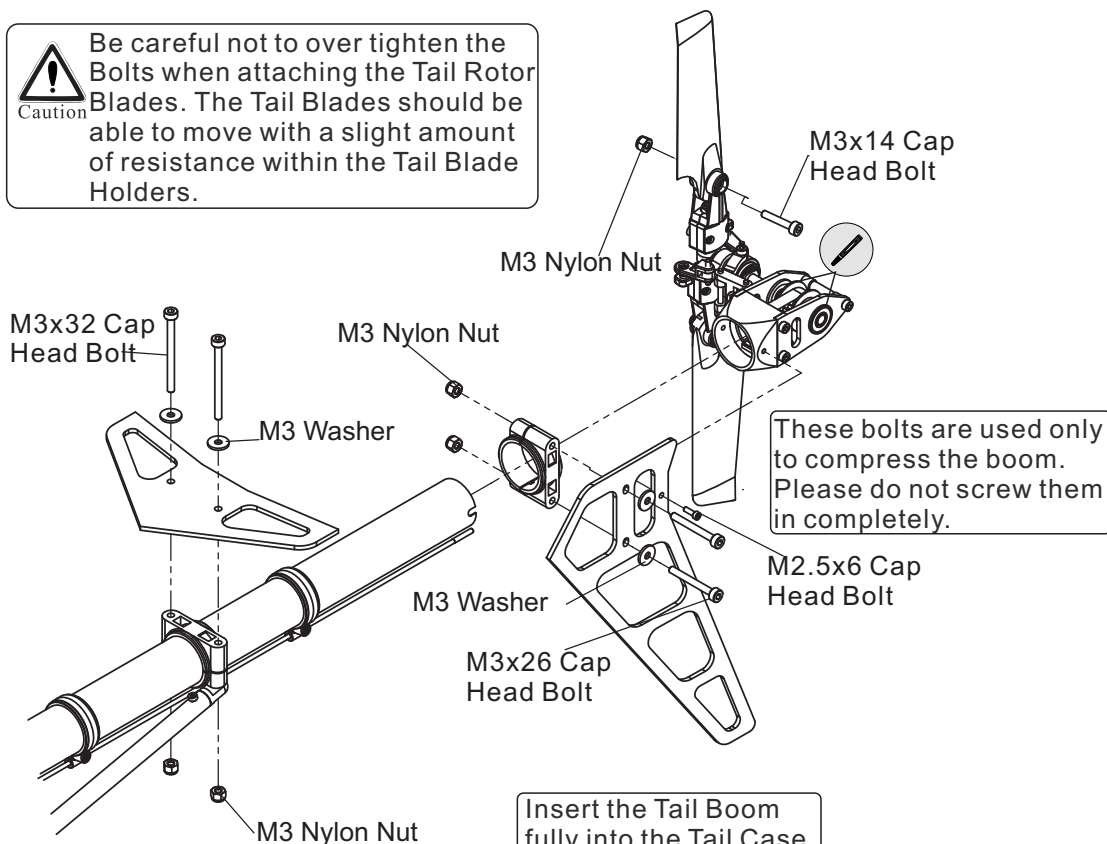
Bearing Retainer



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.



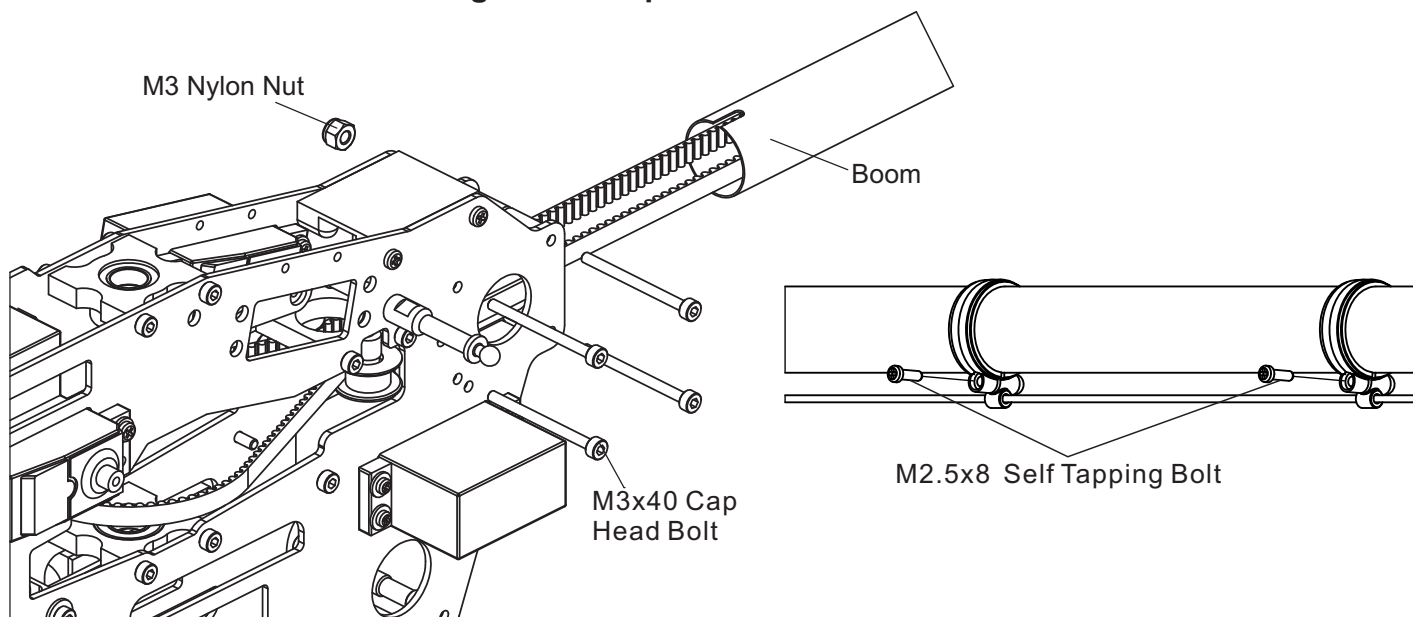
Insert the Tail Boom fully into the Tail Case before tightening the 2.5x6mm Bolts.

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



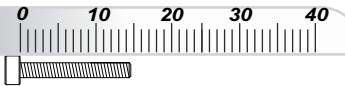
Slide the Tail Boom through the Tail Boom Mount. Twist the Tail Belt 90° to the right before inserting it to the Idler Pulleys.

See Page Team Tips!



④

Main Gear



M3 Nylon Lock Nut x1



M2.5x10 Cap Head Bolt x1



M3x27 Shanked Bolt x1



Use Threadlock

Main Shaft Clamp has to be mounted below the Bearing Block.

Main Shaft

Apply This Hole

Mast Collar

M2.5x10 Cap Head Bolt

M3 Nylon Nut

M3x27 Shanked Bolt

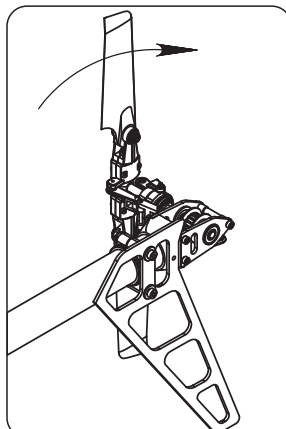
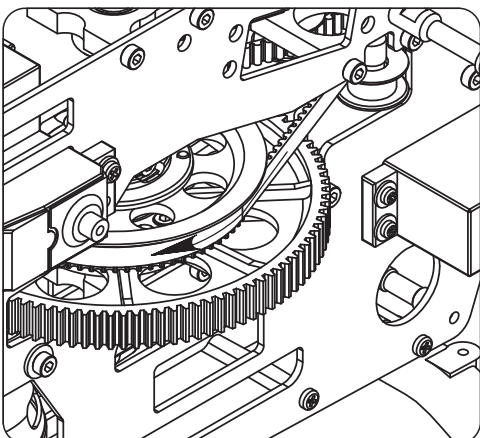
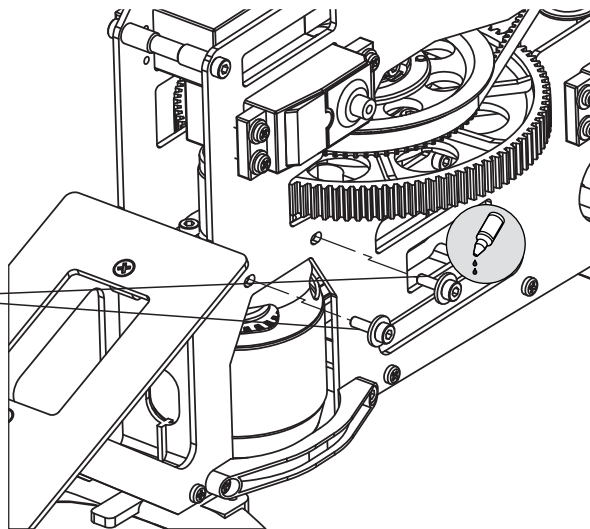
Lift the Main Shaft Collar upwards and secure to the Main Shaft by slightly tightening the Lock Screw. It is necessary to align the Lock Screw through the hole in the side of the Main Frame. While securing the Lock Screw, make sure that you are pushing down on the Main Shaft so that there will be no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

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!

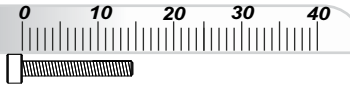
To adjust the correct backlash between the Motor Pinion and the Main Gear loose the 4 Motor Mount Bolts, then fix them tightly with Threadlock.



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



M3x4 Set Screw x6



M4x4 Set Screw x2



M3 Nylon Lock Nut x1

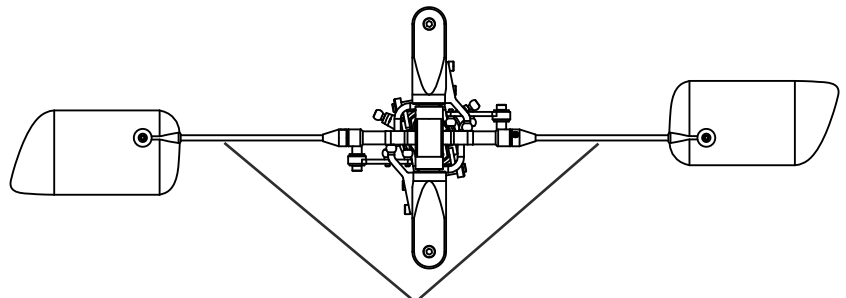
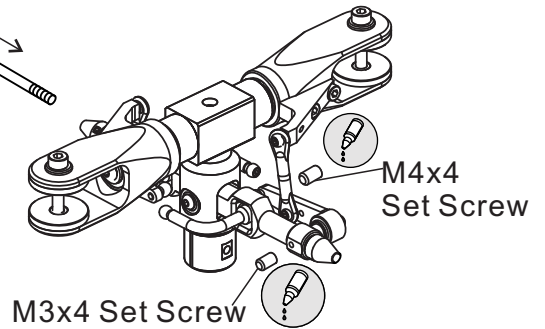
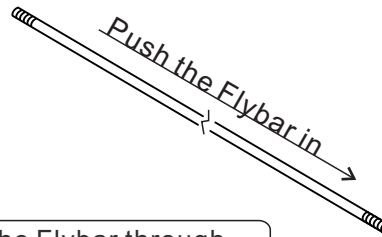


M3x22 Shanked Bolt x1



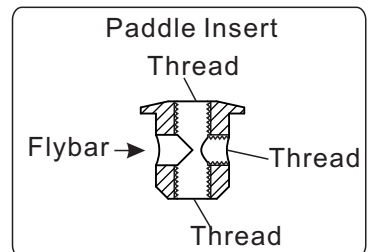
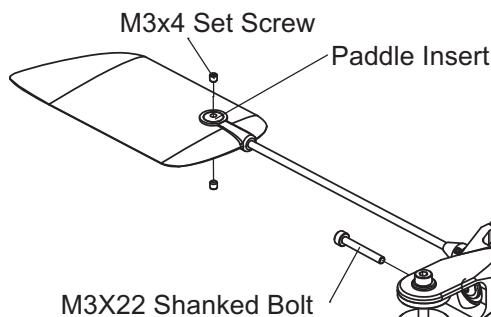
Use Threadlock

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.

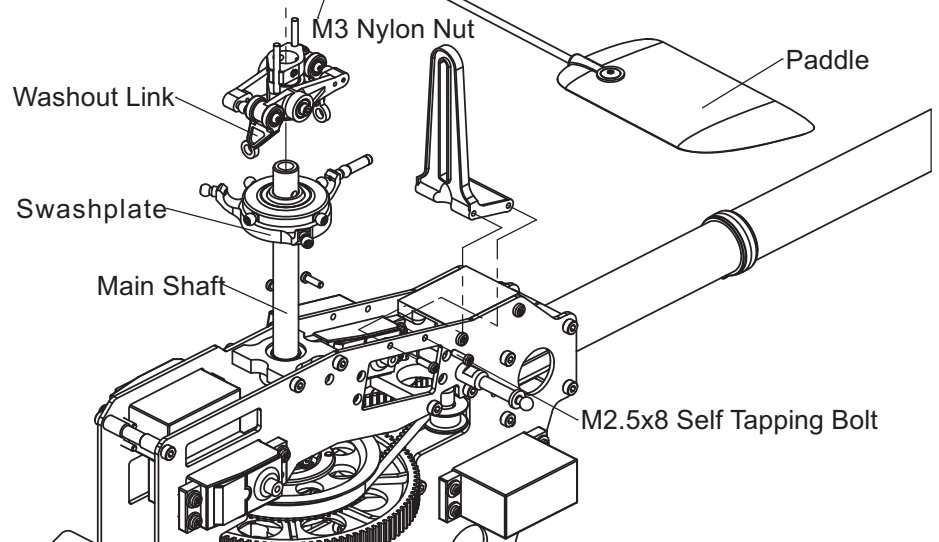


See Page Team Tips!

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.

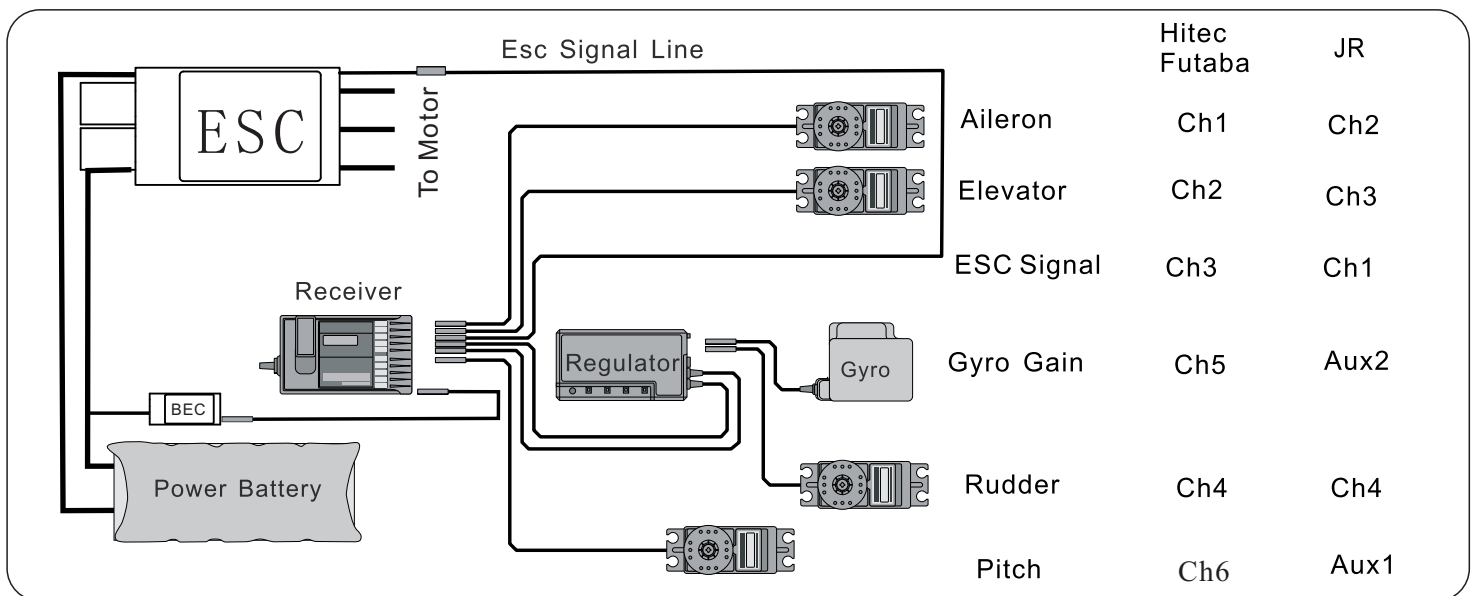
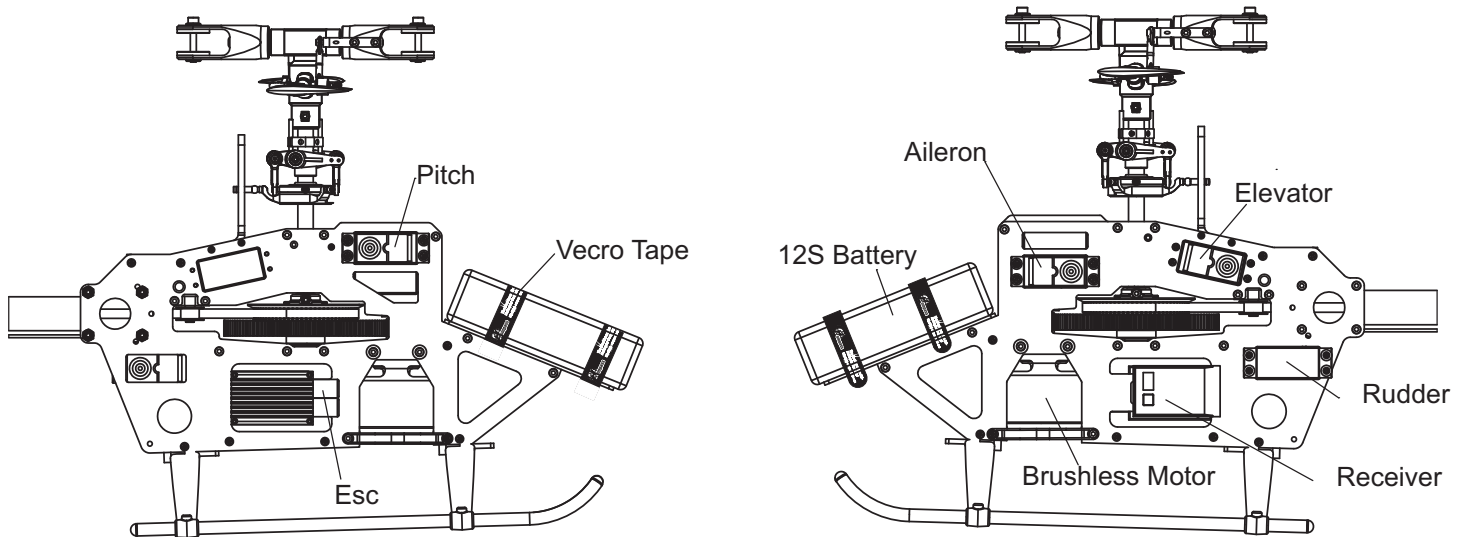


See Page Team Tips!

⑥

Equipment illustration

0 10 20 30 40

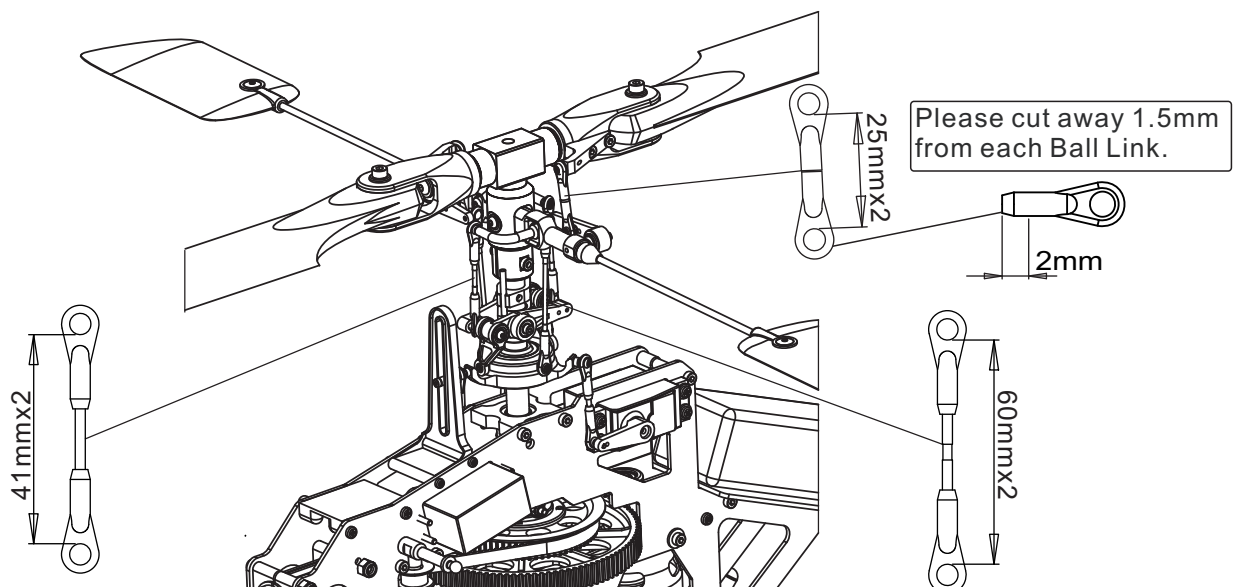


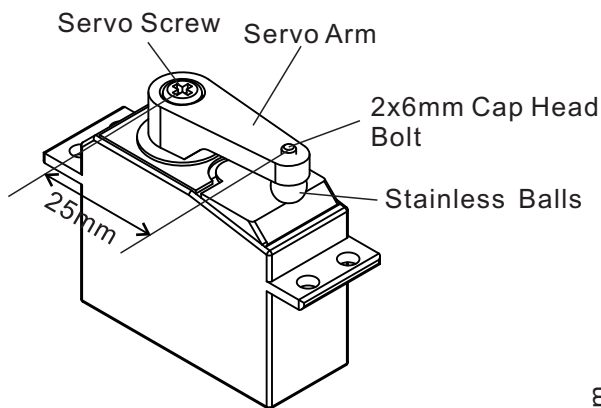
⑦

Linkage

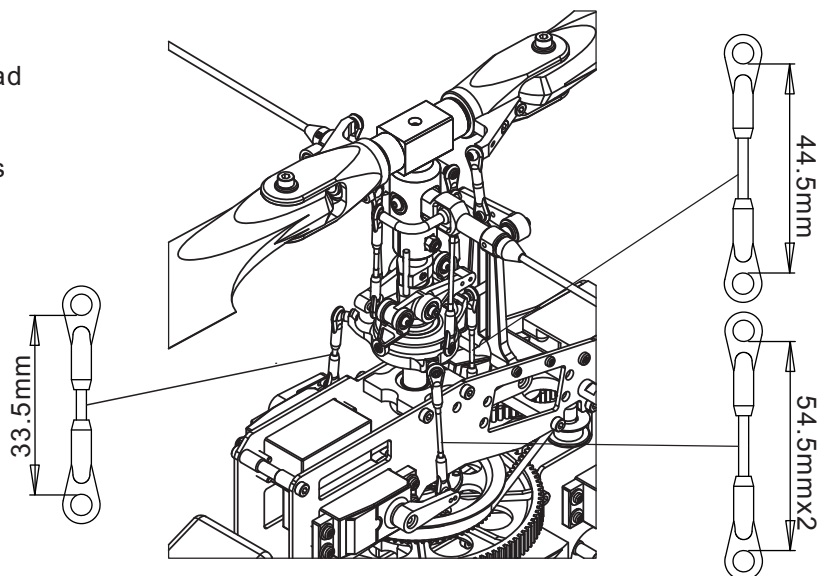
0 10 20 30 40

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.





Most servo manufacturer provide extra long servo horn, please apply that and setup the servo horn at 25mm to the center.

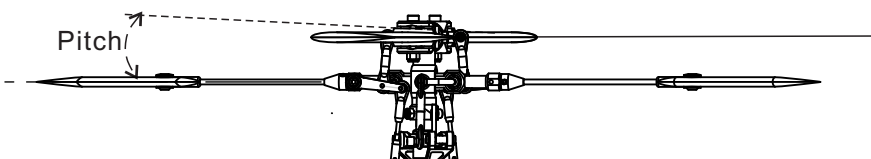


Do not apply plier to resize Ball Links. Pliers could cause hidden damage to Ball Links and result in failure when operation.

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

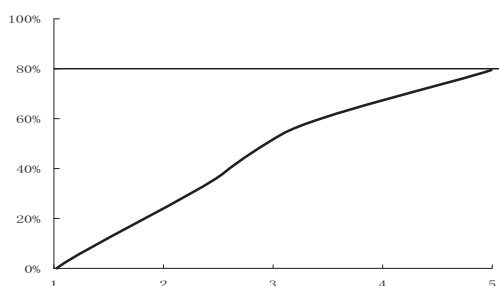


The 6HV total pitch range is about 30°. If you set the pitch too high then flight time will be shortened.

General Flight

	Throttle	Pitch
5	80%	9 deg
4	75%	
3	50%	4~5 deg
2	25%	
1	0%	-5 deg

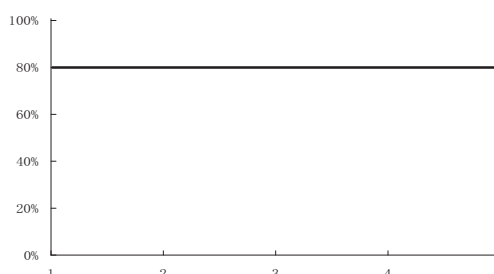
Throttle Curve



3D Style

	Throttle	Pitch
5	80%	10 deg
4	80%	5 deg
3	80%	0 deg
2	80%	-5 deg
1	80%	-10 deg

Throttle Curve



Swash Type Setting

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



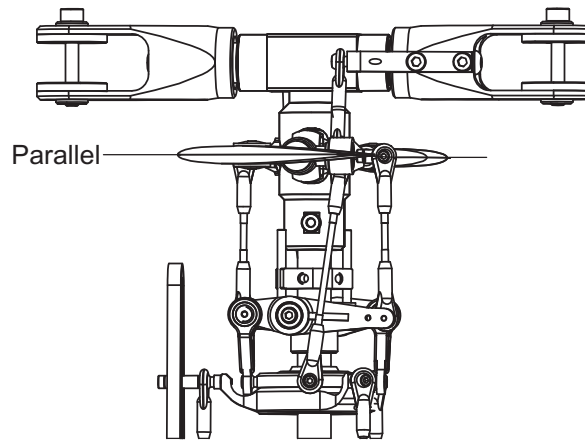
Caution

Too high rate on Throttle curve setting could result in extreme high RPM on main rotor. Head speed over 2100 rpm could potentially cause serious mechanical failure.

Esc Setup

Timing: 22.5 deg
No Brakes
Very Soft Start

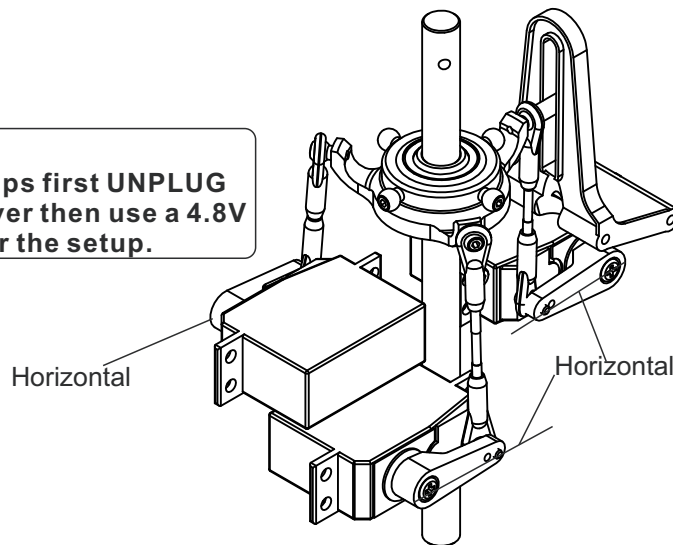
See Page Team Tips!

A

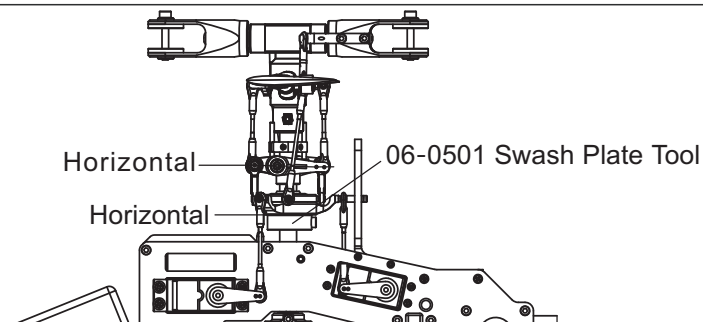
Make sure that the Flybar Control Arms and Paddles are in line as shown in the diagram.

B

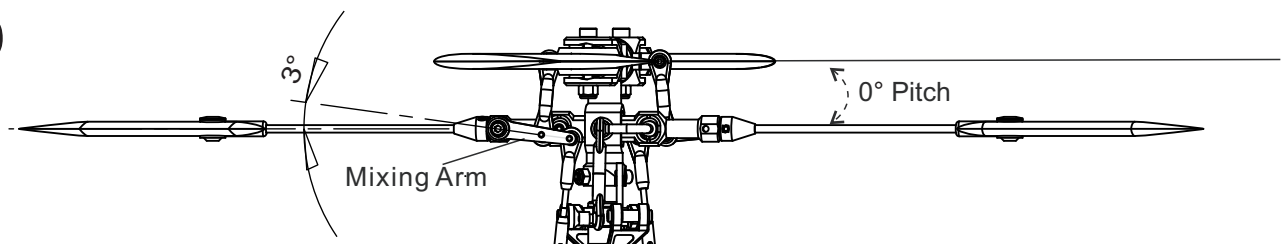
Attention:
To do all Basic Setups first **UNPLUG**
ESC from the receiver then use a 4.8V
Receiver Battery for the setup.



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.

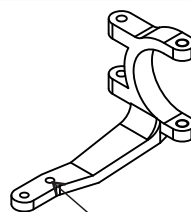
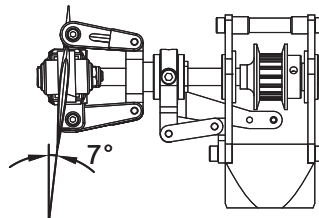
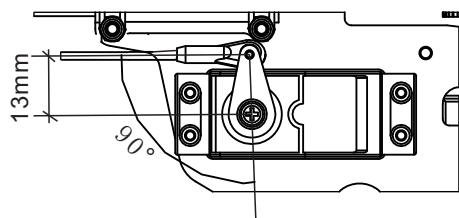
C

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 3° 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

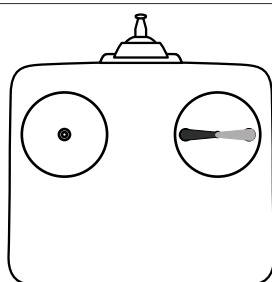
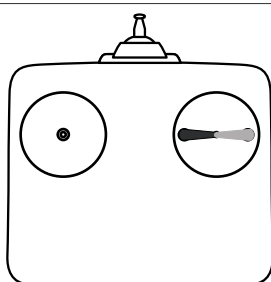


Turn the Transmitter on, your position has to be right behind the helicopters Tail. Make sure that the Swashplate Mode is set to CCPM 120°. Move the Sticks according to the drawings and check the reaction of the Swashplate and the Tail Pitch Plate. Check as well your Throttle settings. Adjust your Transmitter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

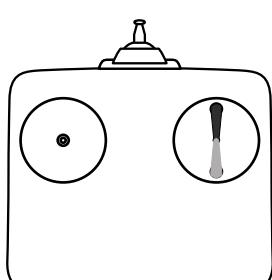
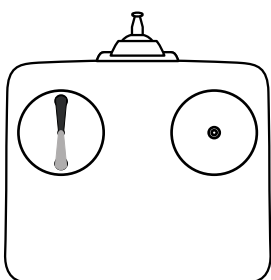
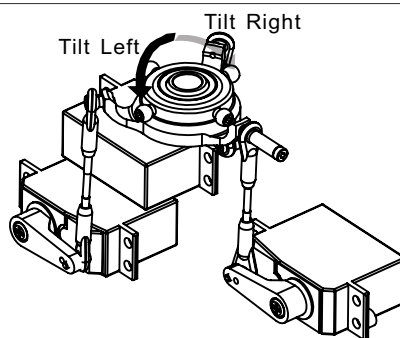
Mod 1

Mod 2

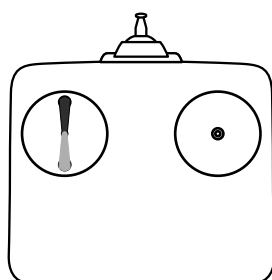
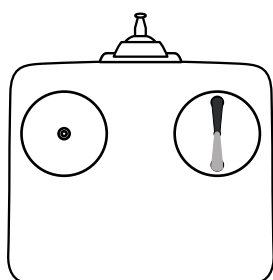
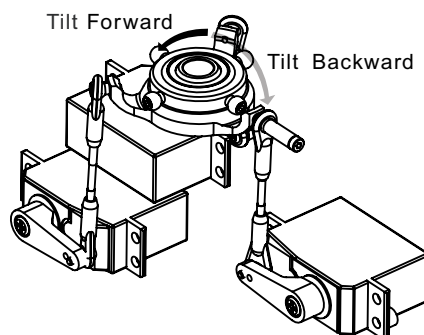
Swashplate Reaction



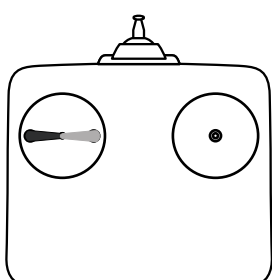
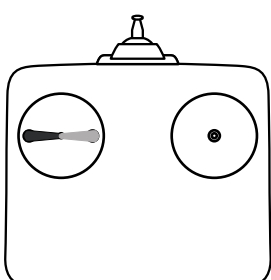
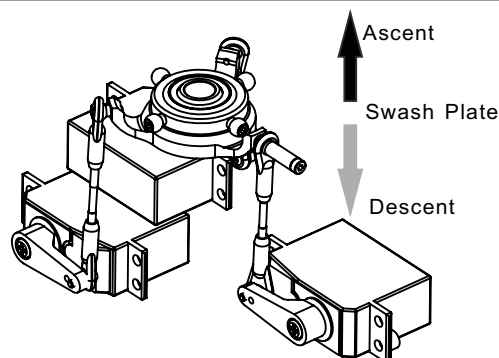
Aileron Check



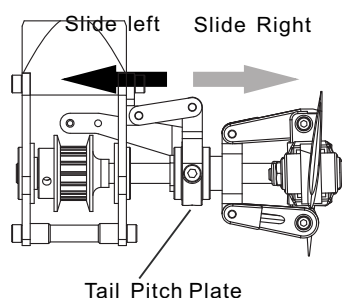
Elevator Check



Pitch Check



Rudder Check



Tail Pitch Plate

10

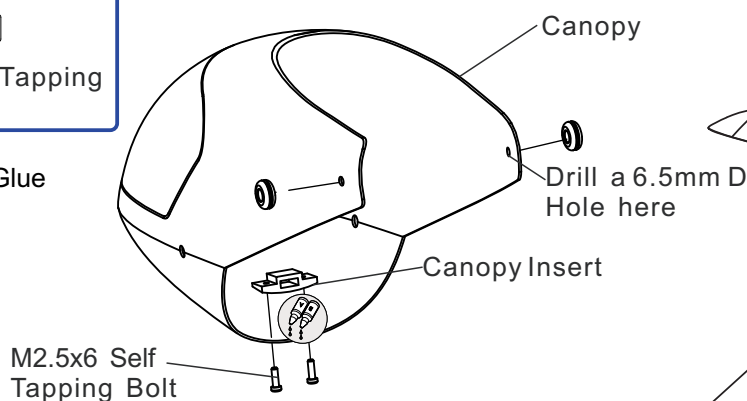
Canopy



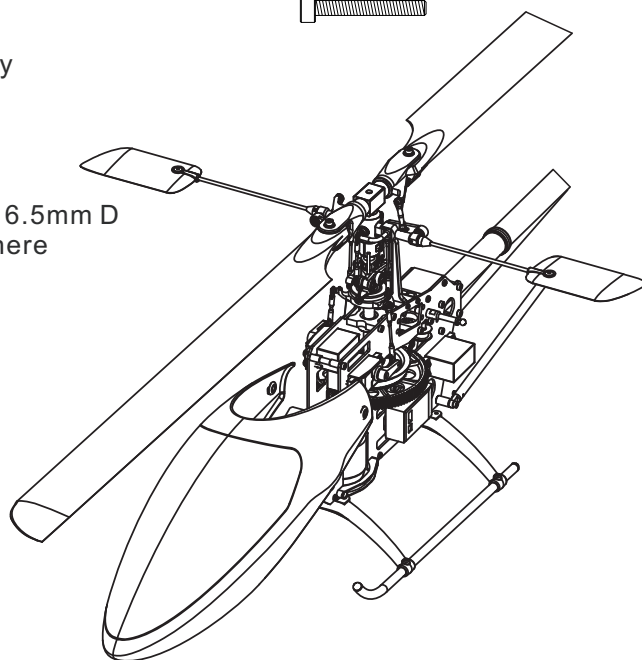
M2.5x6 Self Tapping
Bolt X 2



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.



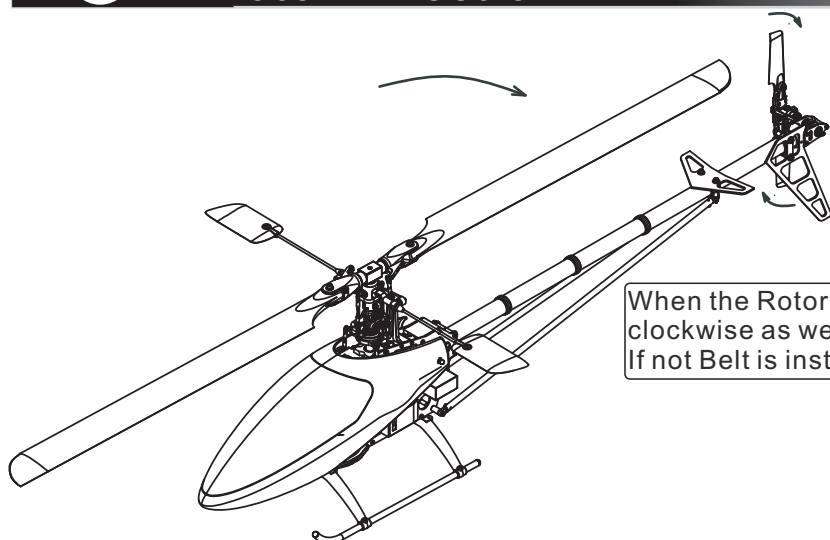
0 10 20 30 40



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 10 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 6HV need to be resized.

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:

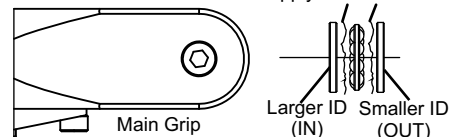
Leave About 0.1mm space between the Flybar Collar and the Flybar Holder, this avoids the Flybar to snap when flying.

Step 7:

For 3D flight please set Governor mode to High, Throttle curve at 75%~80% flat.
To get extra flight time, please set ESC Timing to 7.5deg.

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.





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Parts List

6 HV

Version 1.0/2010

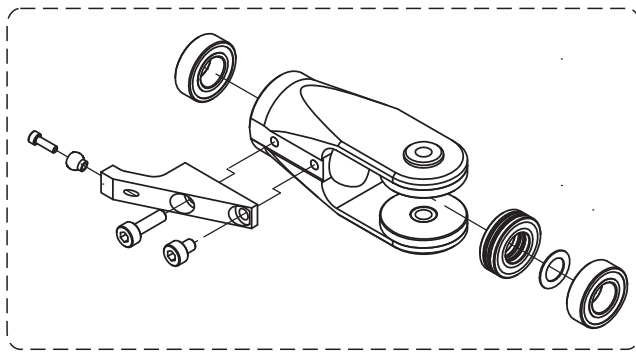


How to order your parts!

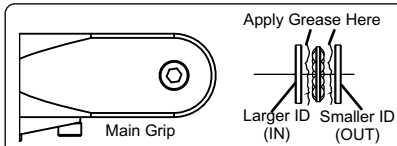
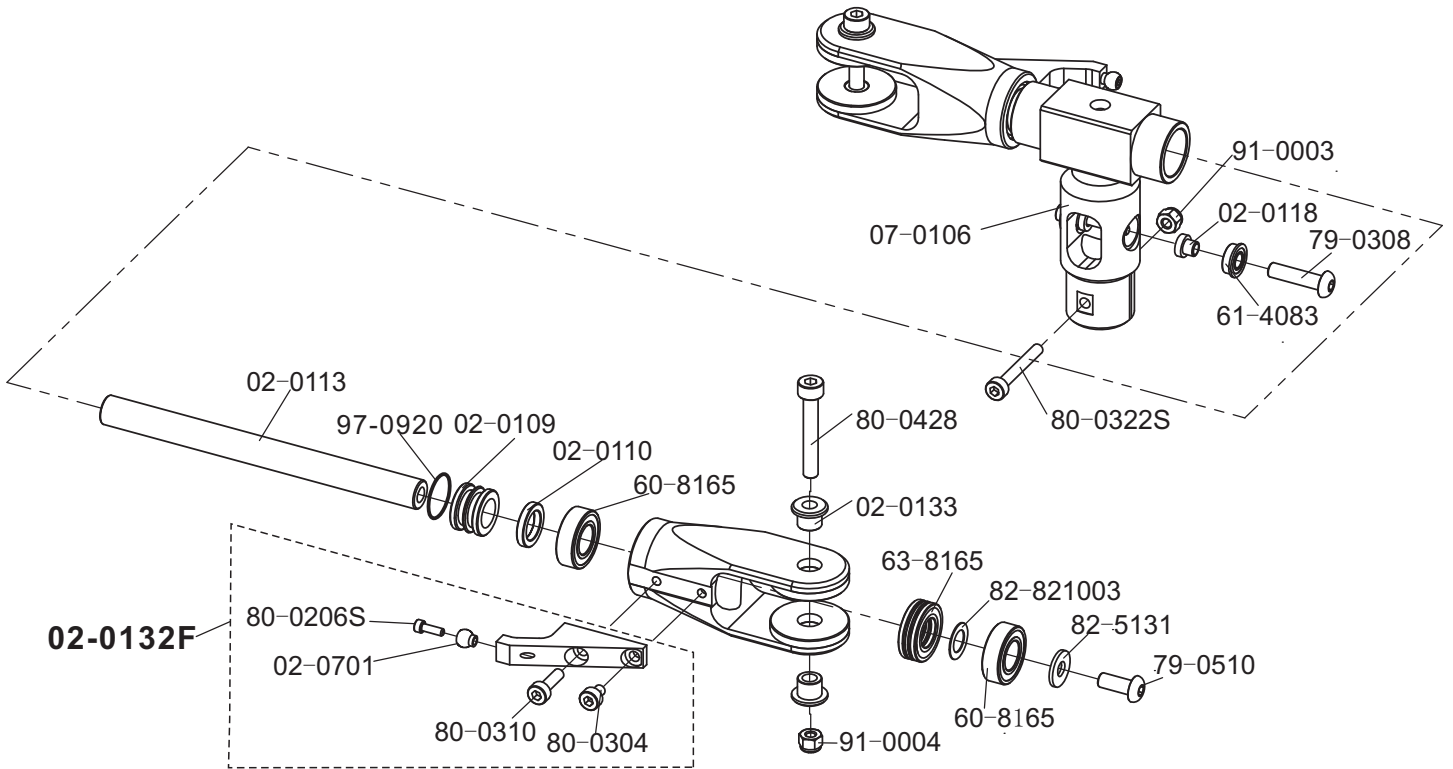
1. Check part number on the drawing
2. Use the part number to find the ORDER number on the list
3. Only use ORDER number for your parts order

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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

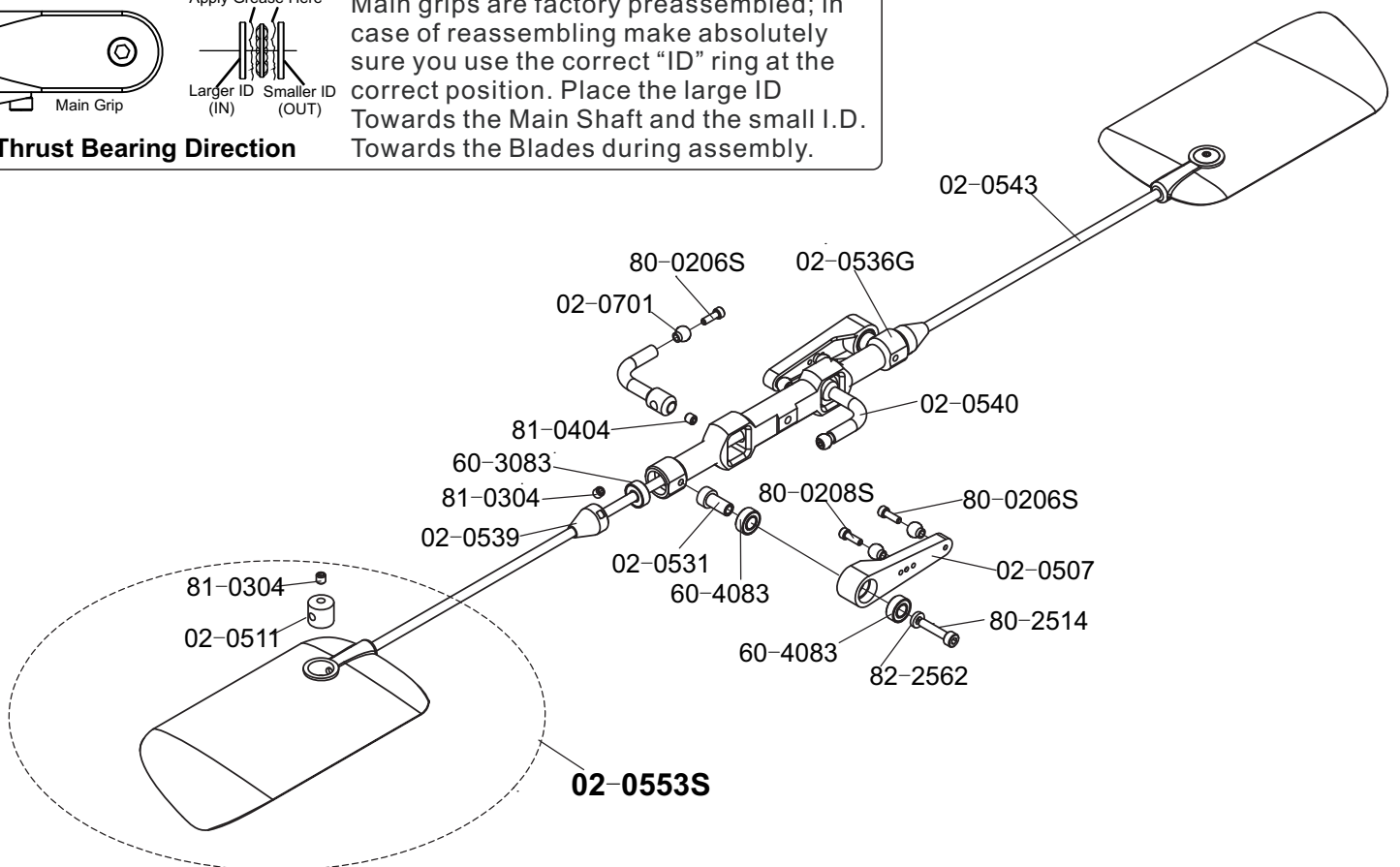


02-5131

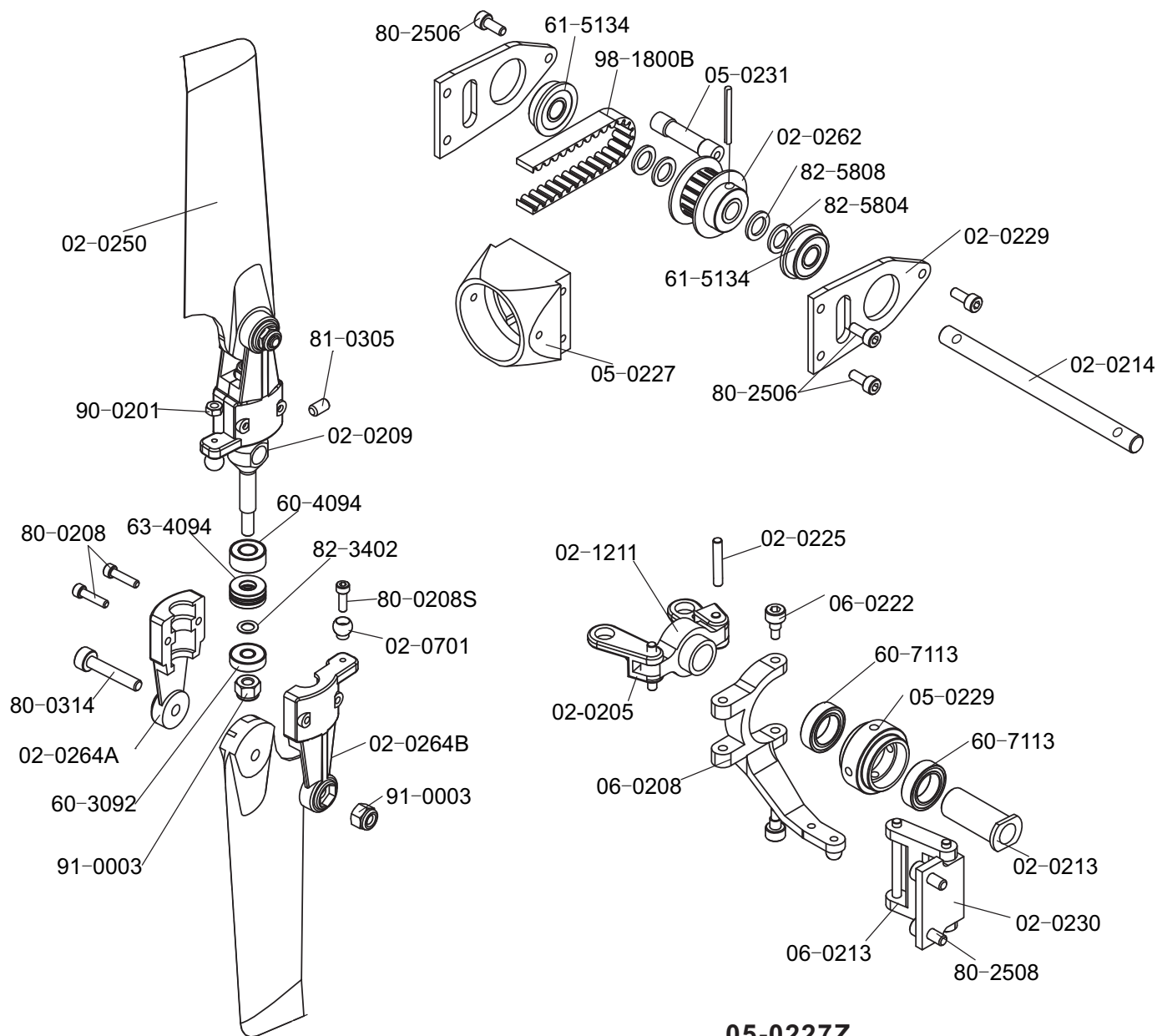


Thrust Bearing Direction

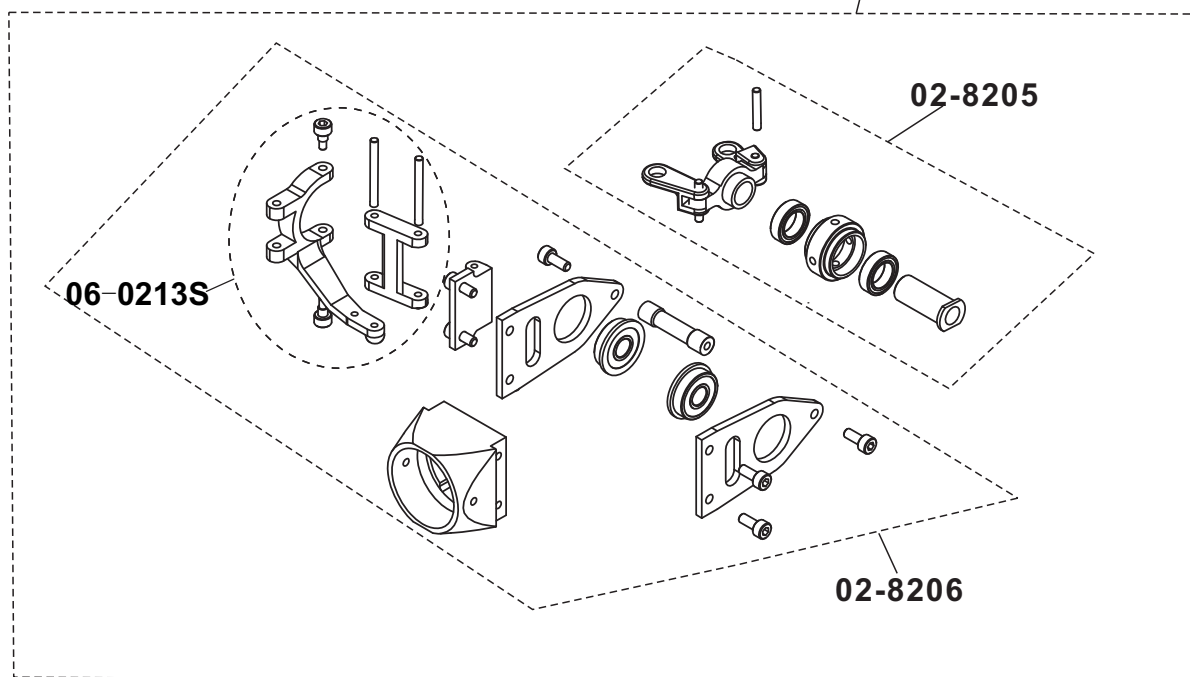
Main grips are factory preassembled; in case of reassembling make absolutely sure you use the correct "ID" ring at the correct position. Place the large ID Towards the Main Shaft and the small I.D. Towards the Blades during assembly.



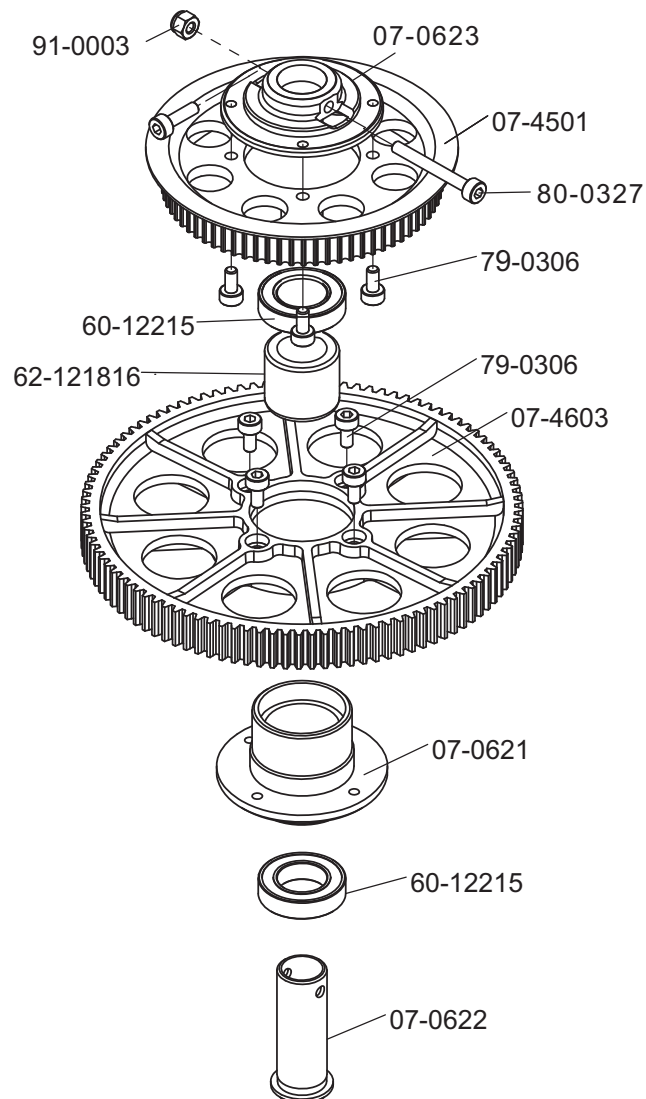
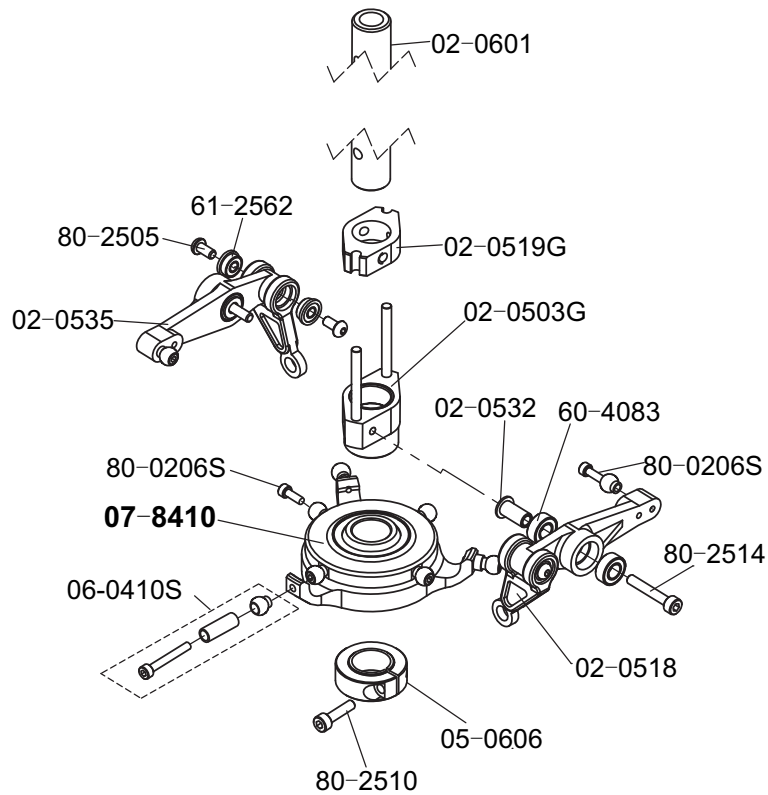
Part No.	Part Description	Order No.	Order Description	Qty,
02-0109	Delrin Dampener 8mm	02-0109	Delrin Dampeners 8mm	2 pcs/bag
02-0110	Spindle Washer 8mm	02-0110	Spindle Washers 8mm	2 pcs/bag
02-0113	Spindle Shaft 8mm	02-0113	Spindle Shafts 8mm	2 pcs/bag
02-0118	Flybar Holder Collar	02-0118	Flybar Holder Collars (Rotor Hub)	2 pcs/bag
02-0132F	Main Blade Holder Arm	02-0132F	Main Blade Holder Arm set	2 set/bag
02-0133	Main Blade Holder Bushing	02-5131	Provided w 02-5131	1 set/bag
02-0507	Mixing Arm	02-0507	Mixing Arm set	2 pcs/bag
02-0511	Paddle Insert	02-0553S	Paddle set	2 pcs/bag
02-0531	Mixing Arm Bushing	02-0531S	Bushing set (3 sizes)	6 pcs/bag
02-0536G	Flybar Holder	02-0536G	Flybar Holder w; Bearings	1 pcs/bag
02-0539	Flybar Collar	02-0539	Flybar Collars	2 pcs/bag
02-0540	Flybar Control Arm	02-0540s	Flybar Control Arm set	2 pcs/bag
02-0543	Flybar	02-0543	Flybars	2 pcs/bag
02-0553S	Paddle	02-0553S	Paddle set	2 pcs/bag
02-0701	Stainless Link Ball	02-0701	Stainless Link Balls	10 pcs/bag
02-5131	Main Blade Holder Metal	02-5131	Main Blade Holder Metal	1 set/bag
07-0106	Rotor Hub	07-0106	Rotor Hub set	1 set/bag
60-3083	Ball Bearing 3x8x3	60-3083	Ball Bearings 3x8x3	5 pcs/bag
60-4083	Ball Bearing 4x8x3	60-4083	Ball Bearings 4x8x3	5 pcs/bag
60-8165	Ball Bearing 8x16x5	60-8165	Ball Bearings 8x16x5	2 pcs/bag
61-4083	Flanged Bearing 4x8x3	61-4083	Flanged Bearings 4x8x3	5 pcs/bag
63-8165	Thrust Bearing 8x16x5	63-8165	Thrust Bearings 8x16x5	2 set/bag
79-0308	Button Head Bolt M3x8	79-0308	Button Head Bolts M3x8	10 pcs/bag
79-0510	Button Head Bolt M5x10	79-0510	Button Head Bolts M5x10	10 pcs/bag
80-0206S	Cap Head Bolt M2x6	80-0206S	Cap Head Bolts M2x6	10 pcs/bag
80-0208S	Cap Head Bolt M2x8	80-0208S	Cap Head Bolts M2x8	10 pcs/bag
80-0304	Cap Head Bolt M3x4	80-0304	Cap Head Bolts M3x4	2 pcs/bag
80-0310	Cap Head Bolt M3x10	80-0310	Cap Head Bolts M3x10	10 pcs/bag
80-0322S	Shanked Bolt M3x22	80-0322S	Shanked Bolts M3x22	2 pcs/bag
80-0428	Shanked Bolt M4x28	80-0428	Shanked Bolts M4x28	2 pcs/bag
80-2514	Cap Head Bolt M2.5x14	80-2514	Cap Head Bolts M2.5x14	10 pcs/bag
81-0304	Set Screw M3x4	81-0304	Set Screws M3x4	10 pcs/bag
81-0404	Set Screw M4x4	81-0404	Set Screws M4x4	10 pcs/bag
82-2562	Washer 2.6x5.2x0.3	82-2562	Washers 2.6x5.2x0.3	10 pcs/bag
82-5131	Washer 5.3x13x1	82-5131	Washers 5.3x13x1	10 pcs/bag
82-821003	Washer 8.2x10x0.3	82-821003	Washers 8.2x10x0.3	2 pcs/bag
91-0003	Nylon Lock Nut M3	91-0003	Nylon Lock Nuts M3	10 pcs/bag
91-0004	Nylon Lock Nut M4	91-0004	Nylon Lock Nuts M4	10 pcs/bag
97-0920	Rubber O-Ring 13x9x2	97-0920	Rubber O-Ring set 13x9x2	4 pcs/bag



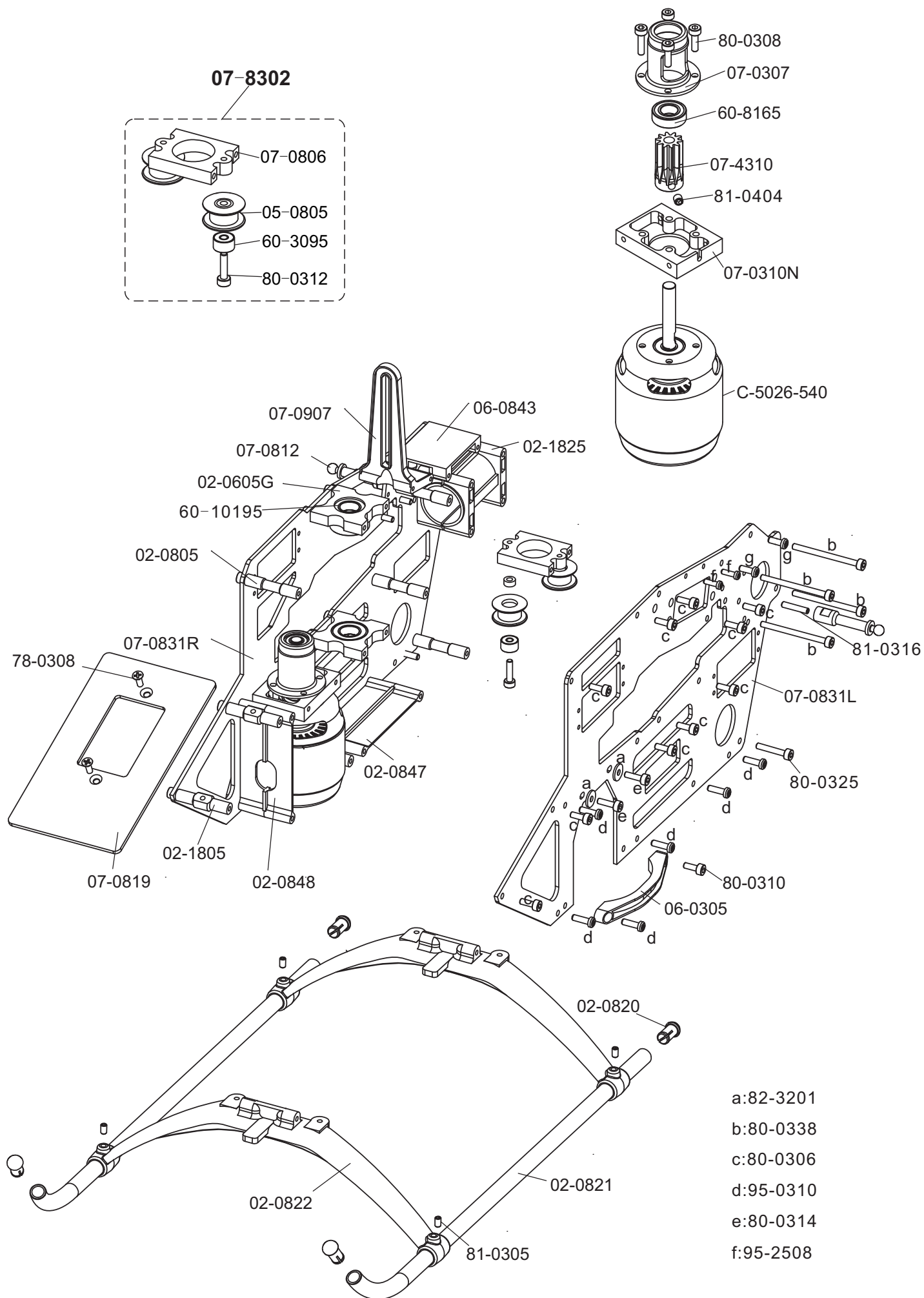
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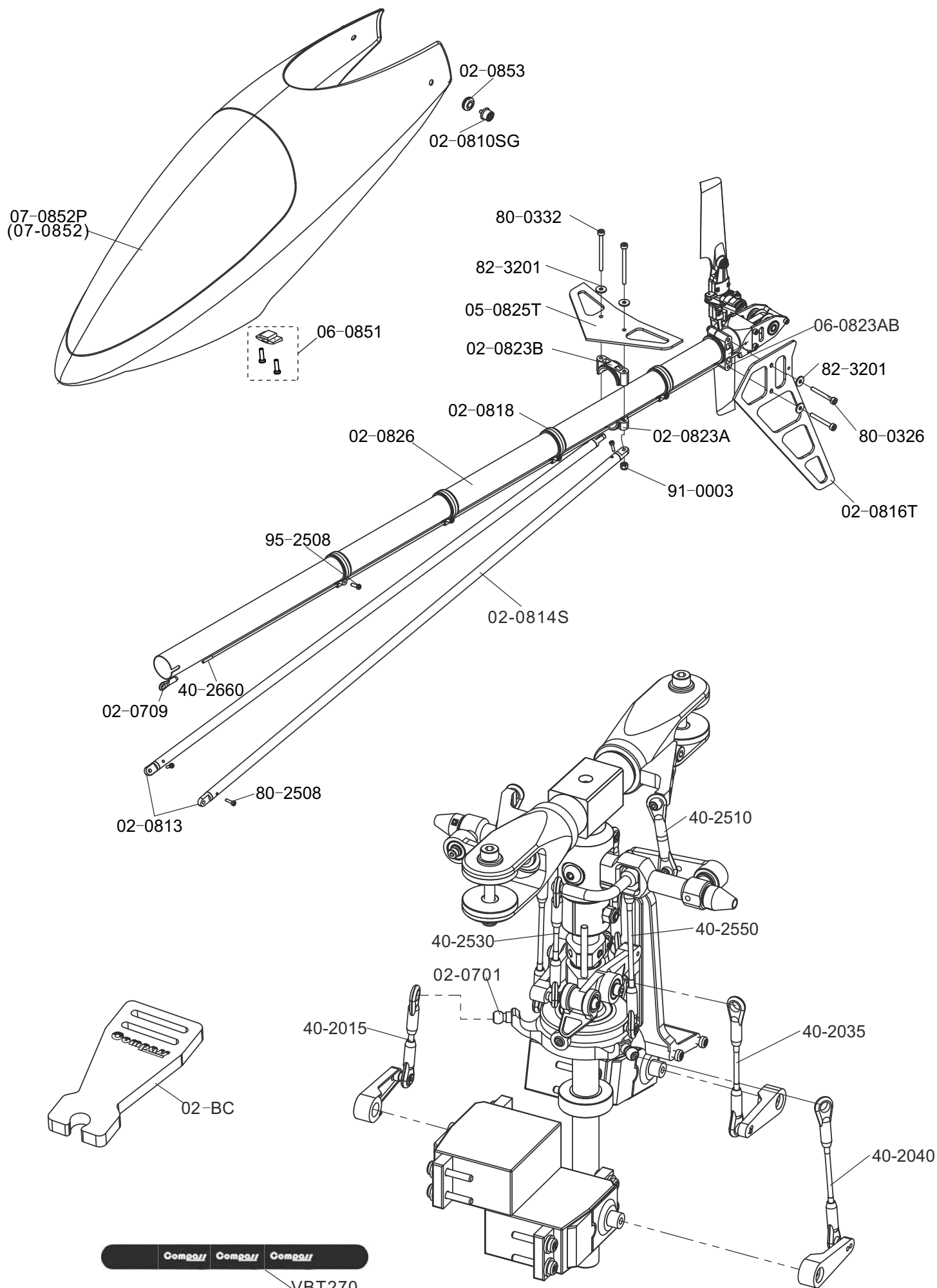
Part No.	Part Description	Order No.	Order Description	Qty,
02-0205	Tail Blade Link	02-0205S	Tail Blade Links w, Pin	2 pcs/bag
02-0209	Tail Rotor Hub	02-0209	Tail Rotor Hub	1 pcs/bag
02-0213	Tail Pitch Slider	02-0213	Tail Pitch Slider	1 pcs/bag
02-0214	Tail Shaft	02-0214	Tail Shafts	2 pcs/bag
02-0225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



Part No.	Part Description	Order No	Order Description	Qty,
02-0503G	Washout Base (grey)	02-0503G	Washout Base (grey)	1pcs/bag
02-0518	Washout Link	02-0518	Washout Links	2 pcs/bag
02-0519G	Phasing Control Ring (grey)	02-0519G	Phasing Control Ring (grey)	1 pcs/bag
02-0532	Bushing	02-0531S	Bushing set (3 sizes)	6 pcs/bag
02-0535	Washout Control Arm	02-0535	Washout Control Arm set	2 pcs/bag
02-0601	Main Shaft	02-0601	Main Shaft	1 pcs/bag
05-0606	Main Shaft Lock Clamp (Ø	05-0606S	Main Shaft Lock Clamp set (Ø 10mm)	1pcs/bag
06-0410S	Swashplate Pin	06-0410S	Swashplate Pin Set	1 set/bag
07-0621	Autorotation Hub	07-0621Z	Autorotation Hub w, One Way Bearing	1 pcs/bag
07-0622	Autorotation Sleeve	07-0622	Autorotation Sleeve	1 pcs/bag
07-0623	Main Pulley Hub	07-0623	Main Pulley Hub	1 pcs/bag
07-4501	Main Pulley	07-4501	Main Pulley	1 pcs/bag
07-4603	Main Gear Molded	07-4603	Main Gear Molded	1 pcs/bag
07-8410	Swashplate	07-8410	Swashplate	1 set/bag
60-12215	Ball Bearing 12x21x5	60-12215	Ball Bearings 12x21x5	2 pcs/bag
60-4083	Ball Bearing 4x8x3	60-4083	Ball Bearings 4x8x3	5 pcs/bag
61-2562	Flanged Bearing 2.5x6x2.6	61-2562	Flanged Bearings 2.5x6x2.6	10 pcs/bag
62-121816	One Way Bearing 12x18x16	62-121816	One Way Bearing 12x18x16	1 pcs/bag
79-0306	Button Head Bolt M3x6	79-0306	Button Head Bolts M3x6	10 pcs/bag
80-0206S	Cap Head Bolt M2x6	80-0206S	Cap Head Bolts M2x6	10 pcs/bag
80-0327	Shanked Bolt M3x27	80-0327	Shanked Bolts M3x27	2 pcs/bag
80-2505	Button Head Bolt M2.5X5	80-2505	Button Head Bolts M2.5X5	10 pcs/bag
80-2510	Cap Head Bolt M2.5×10	80-2510	Cap Head Bolts M2.5×10	10 pcs/bag
80-2514	Cap Head Bolt M2.5x14	80-2514	Cap Head Bolts M2.5x14	10 pcs/bag
91-0003	Nylon Lock Nut M3	91-0003	Nylon Lock Nuts M3	10 pcs/bag



Part No.	Part Description	Order No.	Order Description	Qty,
02-0605G	Bearing block upper	02-0605G	Bearing block upper set	1 pcs/bag
02-0805	Cross Member M3x30	02-0805	Cross Member set M3x30	5 pcs/bag
02-1805	Cross member set M3x30	02-1805	Cross member set M3x30	2 pcs/bag
02-0820	Skid End Cap	02-0820	Skid End Cap set	4 pcs/bag
02-0821	Landing Gear Skid	02-0821	Landing Gear Skids w. Caps	2 pcs/bag
02-0822	Landing Gear Strut (3D Plus)	02-0822	Landing Gear Struts (3D Plus)	2 pcs/bag
02-0847	Frame Member	02-0845S	Frame Member set	4 pcs/bag
02-0848	Frame Member	02-0845S	Frame Member set	4 pcs/bag
02-1825	Tail Boom Mount	02-1825s	Tail Boom Mount set	1 set/bag
05-0805	Guide Pulley	05-0805Z	Guide Pulley set	2 pcs/bag
06-0305	Frame Connector w,	06-0305	Frame Connector w, Bolts(Plastic)	2 pcs/bag
06-0843	Gyro Mount (6HV)	06-0843	Gyro Mount (6HV)	1 pcs/bag
07-4310	6HV Pinion Gear (10t)	07-4310	6HV Pinion Gear (10t)	1 set/bag
07-0307	6HV Pinion Bearing Mount	07-0307	6HV Pinion Bearing Mount	1 set/bag
07-0310N	New Motor mount	07-0310N	New Motor mount	1 pcs/bag
07-0806	Guide Pulley Mount	07-0806	Guide Pulley Mount	1 pcs/bag
07-0812	6HV Canopy Standoff	07-0812	6HV Canopy Standoff	2 pcs/bag
07-0819	6HV Battery Mount	07-0819	6HV Battery Mount	1 pcs/bag
07-0831L	6HV Side Frame (Left)	07-0831	6HV Side Frame	2 pcs/bag
07-0831R	6HV Side Frame (Right)	07-0831	6HV Side Frame	2 pcs/bag
07-0907	Swashplate Guide	07-0907	Swashplate Guide	1 pcs/bag
07-8302	Guide pulley set	07-8302	Guide pulley set	1 set/bag
60-10195	Ball Bearing 10x19x5	60-10195	Ball Bearings 10x19x5	4 pcs/bag
60-3095	Ball Bearings 3x9x5	60-3095	Ball Bearings 3x9x5	2 pcs/bag
60-8165	Ball Bearings 8x16x5	60-8165	Ball Bearings 8x16x5	2 pcs/bag
78-0308	Flat Head Bolt M3x8	78-0308	Flat Head Bolts M3x8	10 pcs/bag
80-0306	Cap Head Bolt M3x6	80-0306	Cap Head Bolts M3x6	10 pcs/bag
80-0308	Cap Head Bolt M3x8	80-0308	Cap Head Bolts M3x8	10 pcs/bag
80-0310	Cap Head Bolt M3x10	80-0310	Cap Head Bolts M3x10	10 pcs/bag
80-0325	Cap Head Bolt M3x25	80-0325	Cap Head Bolts M3x25	10 pcs/bag
80-0312	Cap Head Bolt M3x12	80-0312	Cap Head Bolts M3x12	10 pcs/bag
80-0314	Cap Head Bolt M3x14	80-0314	Cap Head Bolts M3x14	10 pcs/bag
80-0338	Cap Head Bolt M3x38	80-0338	Cap Head Bolts M3x38	10 pcs/bag
81-0305	Set Screw M3x5	81-0305	Set Screws M3x5	10 pcs/bag
81-0316	Set Screw M3x16	81-0316	Set Screws M3x16	10 pcs/bag
81-0404	Set Screw M4x4	81-0404	Set Screw M4x4	10pcs/bag
82-3201	Washers 3.2x10x1.2	82-3201	Washers 3.2x10x1.2	10 pcs/bag
95-2508	Self Tapping Bolt 2.5x8	95-2508	Self Tapping Bolts 2.5x8	10 pcs/bag
95-0310	Self Tapping Bolt 3x10	95-0310	Self Tapping Bolts 3x10	10 pcs/bag
C-5026-540	12s motor for 6HV kv 540	C-5026-540	12s motor for 6HV kv 540	1 pcs/bag



Part No.	Part Description	Order No.	Order Description	Qty,
02-0701	Stainless link balls	02-0701	Stainless link balls	10 pcs/bag
02-0709	Ball Link	02-0709	Ball Links	10 pcs/bag
02-0810SG	Thumb Screw (gold)	02-0810SG	Thumb Screw set (gold)	4 pcs/bag
02-0813	Tail Boom Brace Connector	02-0813S	Tail Boom Brace Connector set	4 pcs/bag
02-0814S	Tail Boom Brace 530mm	02-0814S	Tail Boom Brace set 530mm	2 pcs/bag
02-0816T	Vertical Fin Carbon	02-0816T	Vertical Fin Carbon	1 pcs/bag
02-0818	Tail Control Rod Guide Clamp	02-0818S	Tail cControl Rod Guide Clamp set	4 pcs/bag
02-0823AB	Tail Boom Support Clamp	02-0823AB	Tail Boom Support Clamp	1 set/bag
02-0826	Tail Boom 705mm	02-0826	Tail Boom 705mm	2 pcs/bag
02-0853	Canopy Rubber Grommet	02-0853	Canopy Rubber Grommet set	10 pcs/bag
02-BC	Blade Caddie (50/90)	02-BC	Blade Caddie (50/90)	1 pcs/bag
05-0825T	Horizontal Fin Carbon (6HV)	05-0825T	Horizontal Fin Carbon (6HV)	1 pcs/bag
06-0823AB	Vertical Fin Clamp	06-0823AB	Vertical Fin Clamp	1 set/bag
06-0851	Canopy Insert	06-0851	Canopy Insert	1 set/bag
07-0852	Fiberglass Canopy (6HV)	07-0852	Fiberglass Canopy (6HV)	1 pcs/bag
07-0852P	Painted FG Canopy (6HV)	07-0852P	Painted FG Canopy (6HV)	1 pcs/bag
40-2510	Link Rod 10mm	E-LG-07	Link Rod set (6HV)	1 set/bag
40-2015	Link Rod 15mm	E-LG-07		1 set/bag
40-2530	Link Rod 30mm	E-LG-07		1 set/bag
40-2035	Link Rod 35mm	E-LG-07		1 set/bag
40-2040	Link Rod 40mm	E-LG-07		1 set/bag
40-2550	Link Rod 50mm	E-LG-07		1 set/bag
40-2660	Tail Control Rod 2X660	40-2660S	Tail Control Rod 2X660	1 pcs/bag
80-0326	Cap Head Bolt M3x26	80-0326	Cap Head Bolts M3x26	10 pcs/bag
80-0332	Cap Head Bolt M3x32	80-0332	Cap Head Bolts M3x32	10 pcs/bag
80-2508	Cap Head Bolt M2.5x8	80-2508	Cap Head Bolts M2.5x8	10 pcs/bag
82-3201	Washer 3.2x10x1.2	82-3201	Washers 3.2x10x1.2	10 pcs/bag
91-0003	Nylon Lock Nut M3	91-0003	Nylon Lock Nuts M3	10 pcs/bag
95-2508	Self Tapping Bolt 2.5x8	95-2508	Self Tapping Bolts 2.5x8	10 pcs/bag
VBT270	Velcro tape	VBT270	Velcro tape	4 pcs/bag



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