

Compass



Sport X



Assembly Manual

Version 1.0
Created : 06/24/2008

Compass Features :

- Precision 120° ECCPM swash plate
- Wear resistant parts
- Low parts count
- Simple maintenance with easy access
- 80% preassembled kit

With features like, painted fiber canopy, Anti rotation guide, Aluminum hub, metal swash plate the Sport X not only looks great but is a cheap way.

Sport X The Fun Difference

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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

Introduction

Thank you for choosing the Sport X and welcome to Compass Model. The Sport X has been designed to offer outstanding performance. Same as other compass products, Sport X is powerful, stable, agile as well as accurate. The frame layout has been designed to create an extraordinarily rigid platform which is both durable and further improved control accuracy. The simple layout features light weight, low parts count and raise the center of gravity. Please read the complete manual before assembly. Please take careful note of all precautions and assembly tips. Please also keep the manual as a reference for part numbers and reassembly following maintenance.

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 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

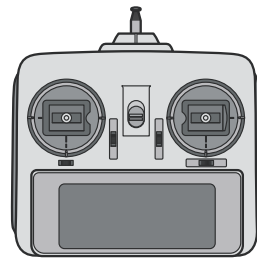
In order to operate this model, you need to purchase the following items not kit-included.

At least a 6 channel radio and receiver

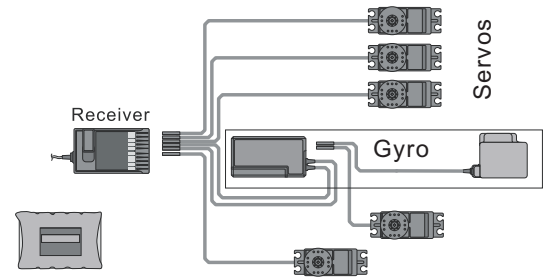
4 standard servos.

1 gyro with rudder servo.

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

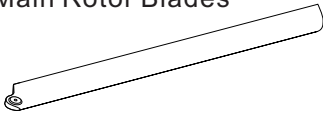


Transmitter



Battery

Main Rotor Blades



Length: 600~ 620mm



Thread Lock



Grease



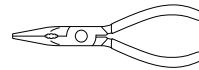
Bearing Retainer



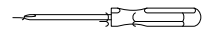
Hex Wrench
(1.5mm,2mm,2.5mm,3mm)



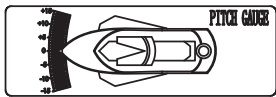
Cutter Knife



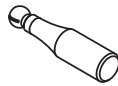
Needle Nose Pliers



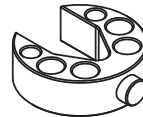
Screw Driver



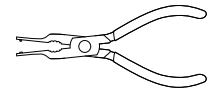
Pitch Gauge



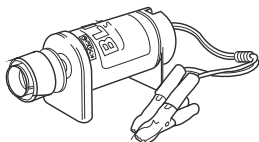
Ball Link Sizing Tool



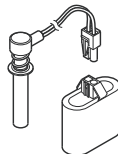
Swash Plate tool



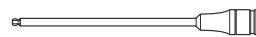
Ball Plier



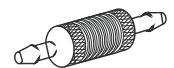
Engine Starter



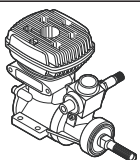
Glow Igniter



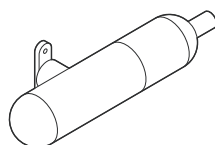
Starter Shaft



Fuel Filter



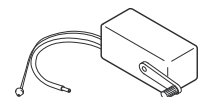
Class 50 Engine



Muffler for 50 Class



Glow Fuel for
Model Engines



Fuel Pump

Preassembly 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.



Canopy



Frame Set



Rotor Head



Long items



Step 1



Step 2



Step 3



Step 5



Step 6



Step 7 & 8



Step 9

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!

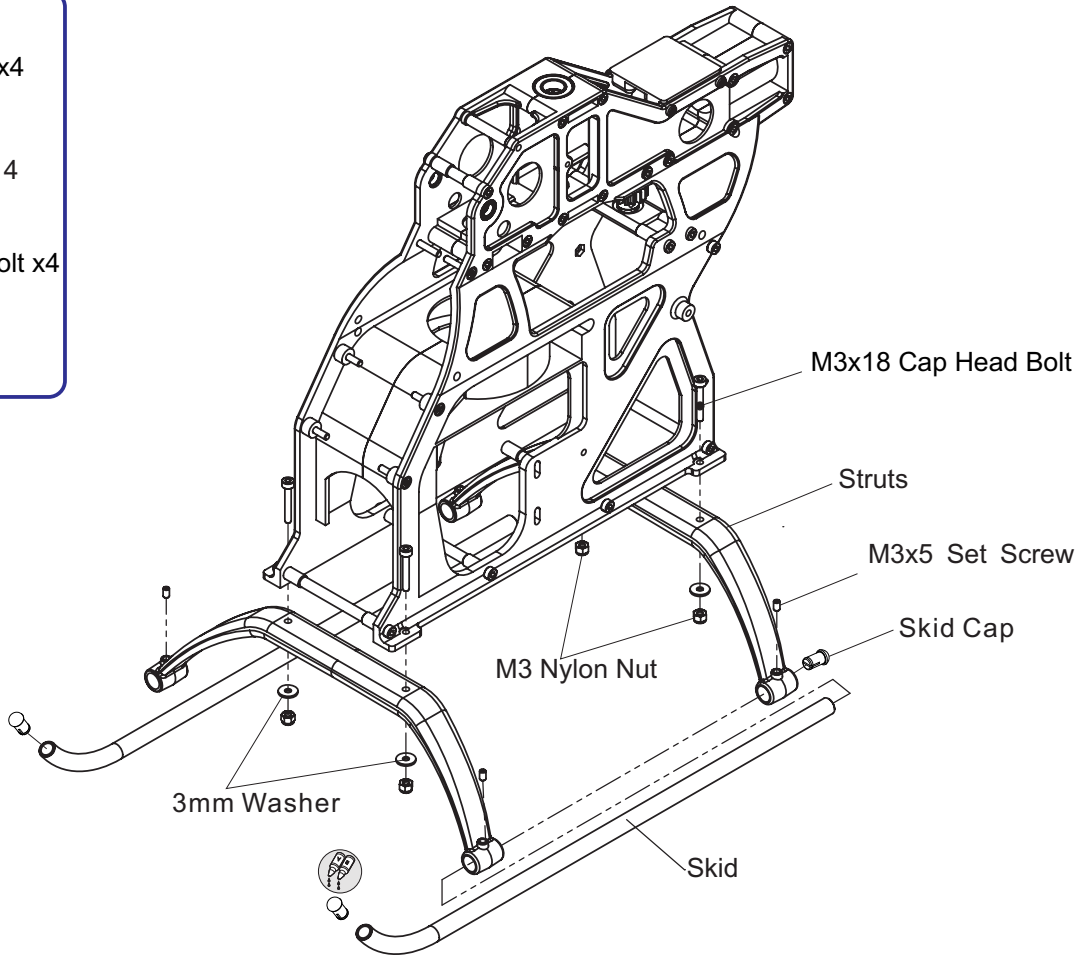
1

Landing Gear



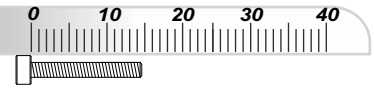
-   M3 Nylon Lock Nut x4
-   M3x5 Set Screw X 4
-   M3x18 Cap Head Bolt x4
-   3mm Washer X 4







 Use AB Glue



2

Main Gear



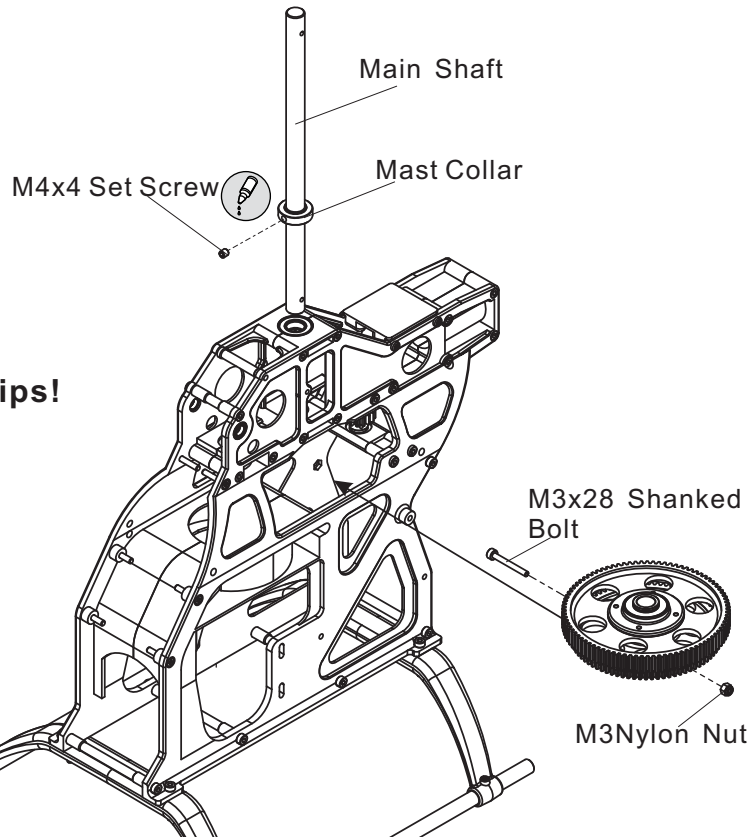
-   M3 Nylon Lock Nut x1
-   M3x28 Shanked Bolt x1
-   M4x4 Set Screw X 1

 Use Threadlock

See Page Team Tips!

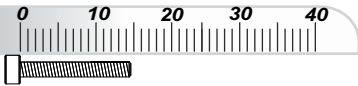







Make sure mast collar is tightened securely onto the mast. Double-check to make sure the mast lock collar is properly seated onto the mast and main shaft can not move up or down.



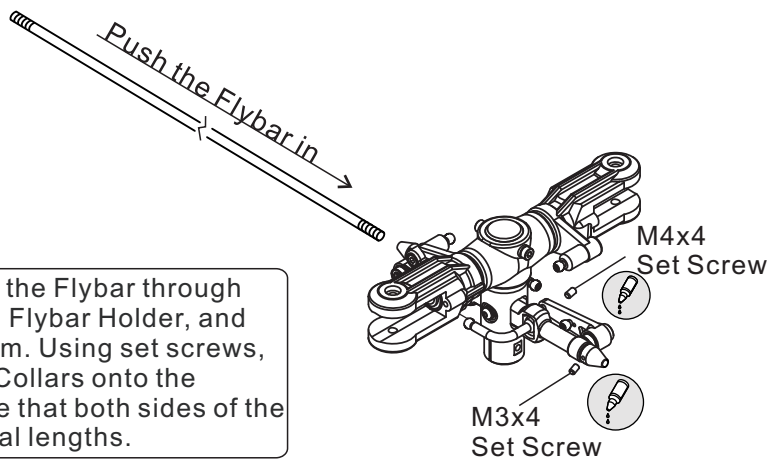
3


Rotor, Washout & Swashplate

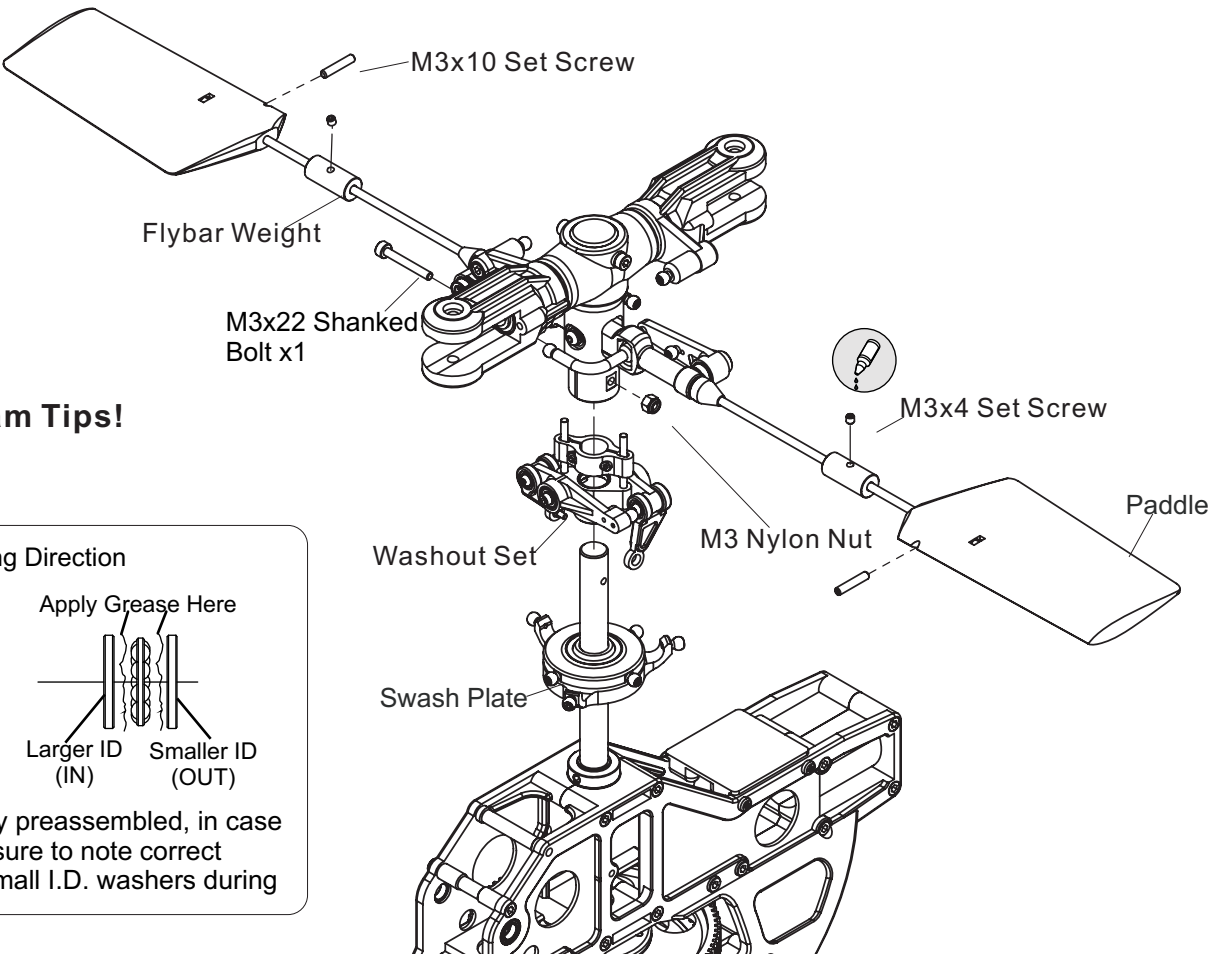


-  M3x4 Set Screw x4
-  M3x10 Set Screw x2
-  M4x4 Set Screw x2
-  M3 Nylon Nut x1
-  M3x22 Shanked Bolt x1

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.

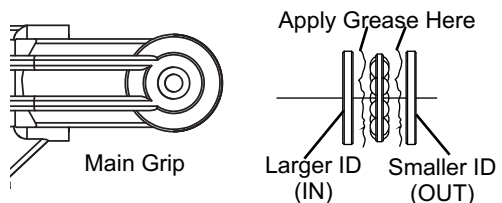


 Use Threadlock

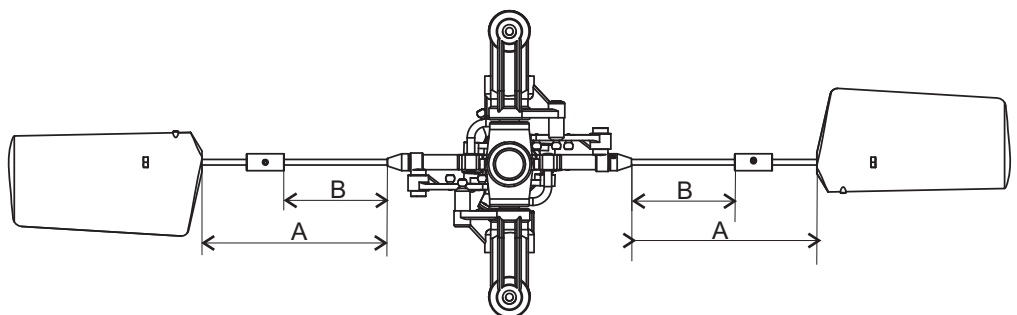


See Page Team Tips!

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



Adjust so that each side has exactly the same length

4

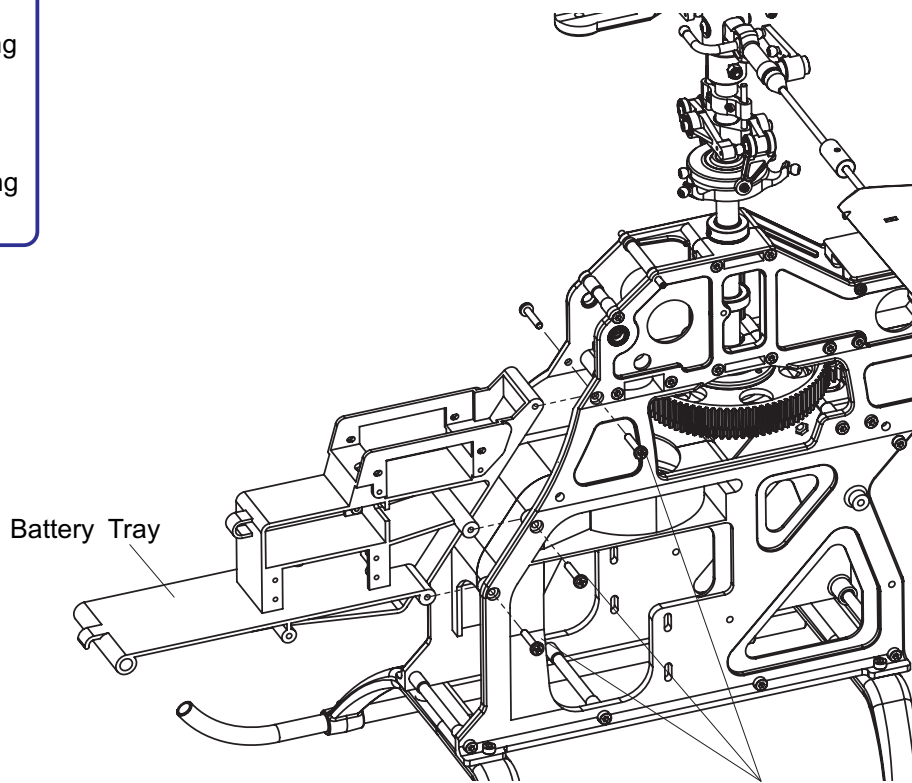
Front Servo Mount



M3x10 Self Tapping Bolt x4

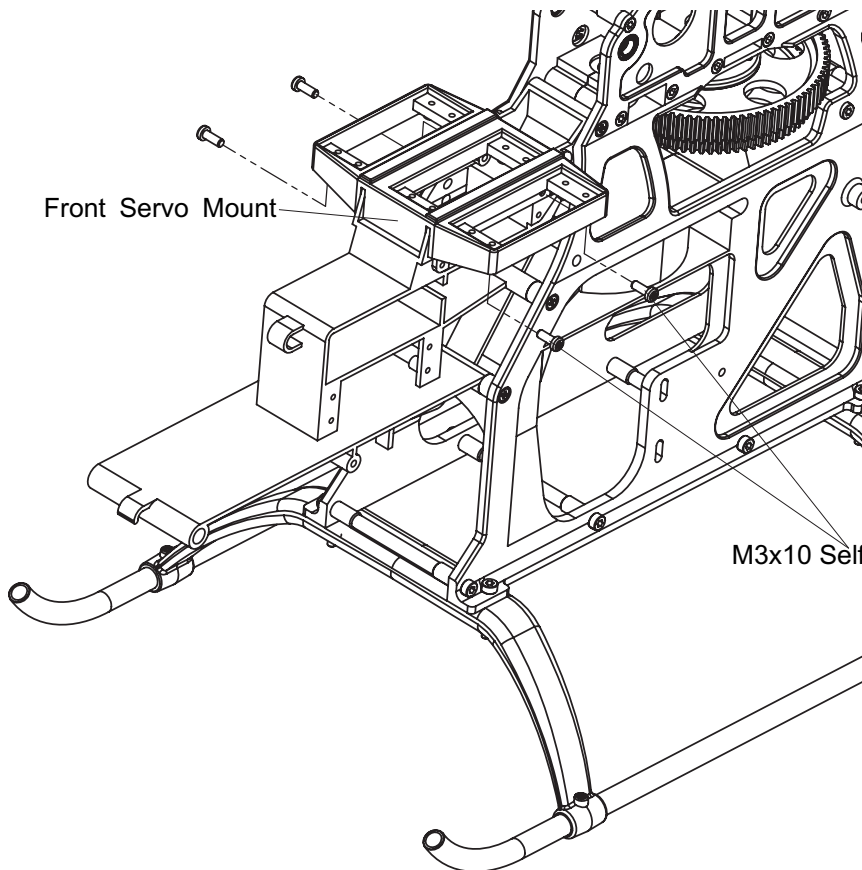


M3x16 Self Tapping Bolt x6



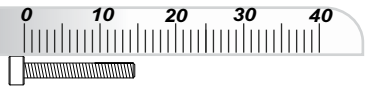
Battery Tray

M3x16 Self tapping bolt



Front Servo Mount

M3x10 Self Tapping Bolt



M3 Washer x4

M3x12 Cap Head Bolt x2

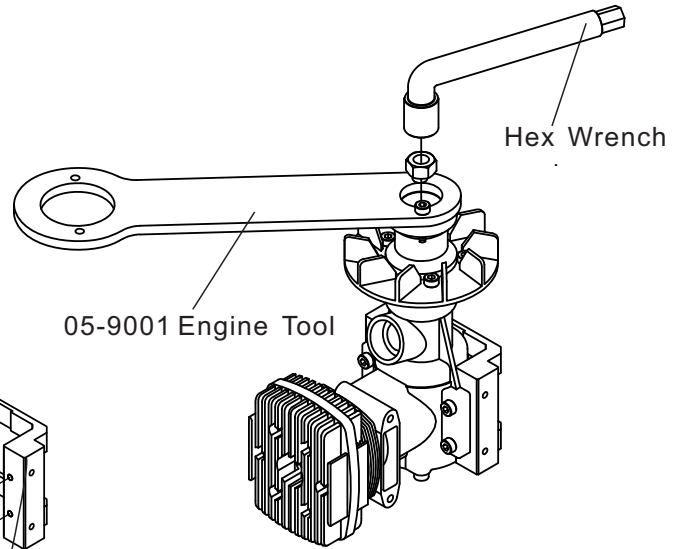
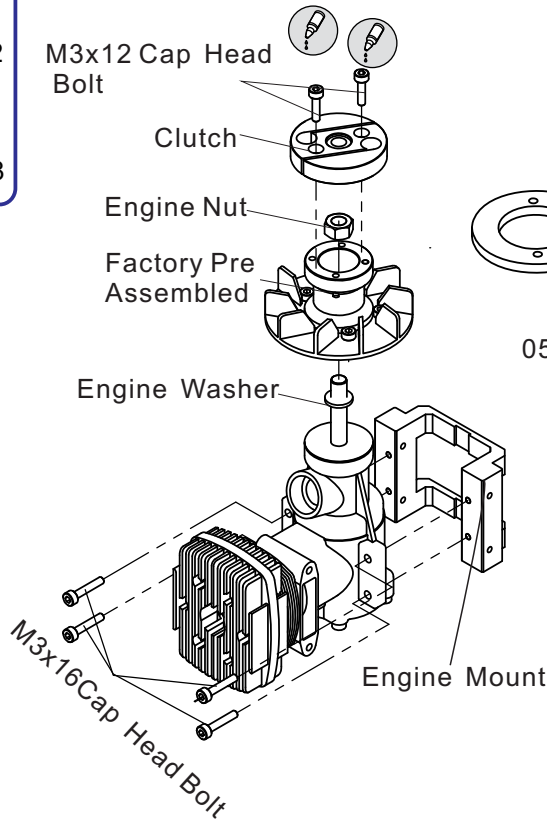
M3x16 Cap Head Bolt x8

Use Threadlock

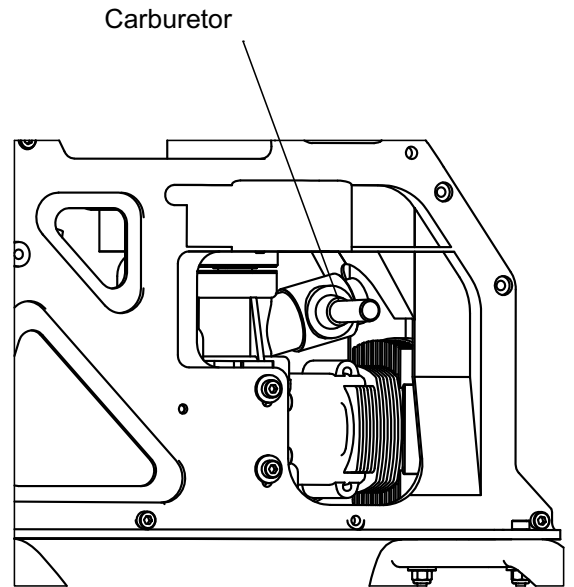
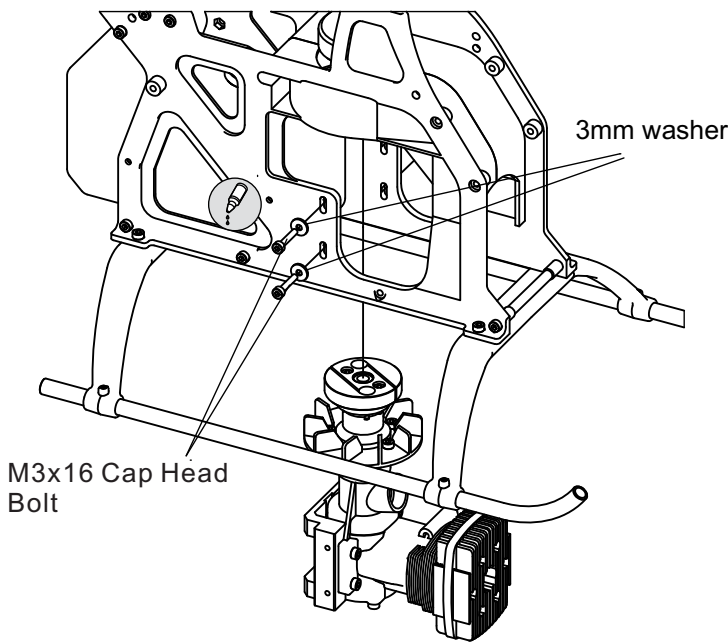
Use AB Glue



Note: Apply special engine tool when fixing Fan Hub on the engine. And make sure Fan Hub Set is Firmly tightened on the Engine.



Compass Engine Tool is need to tight the engine on the Fly Wheel










Insert the Engine set and fix the Engine Mount with M3x16 Cap Head Bolt.


Finally install the Carburetor.

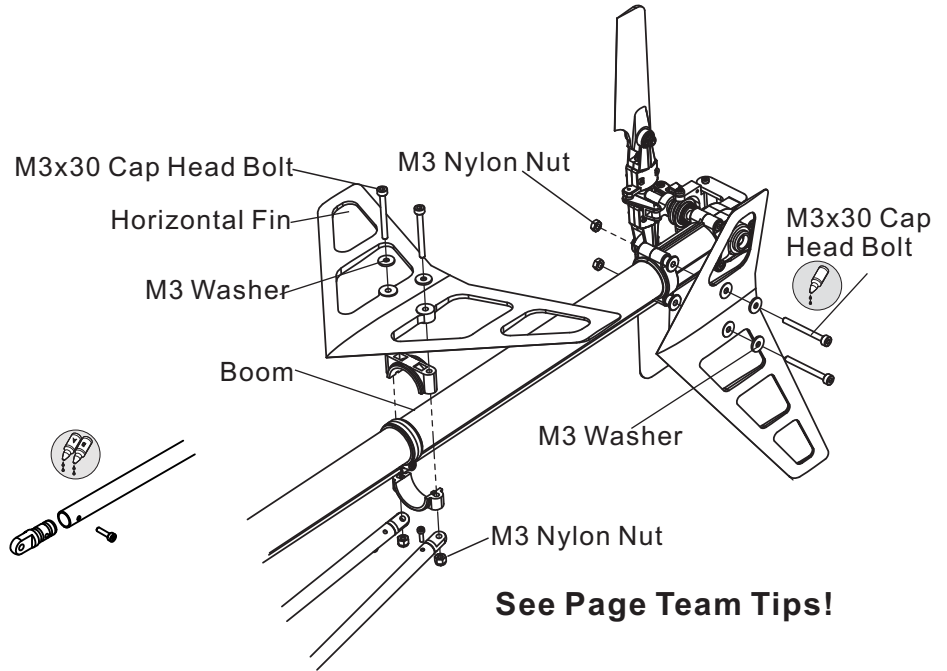
6



Tail




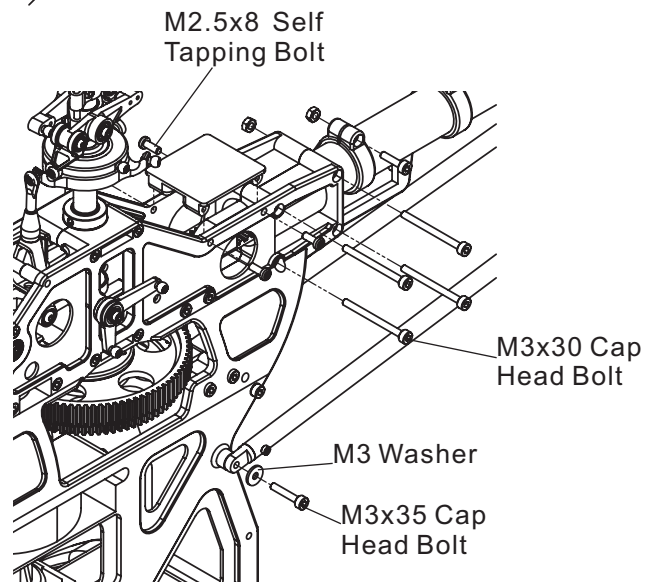
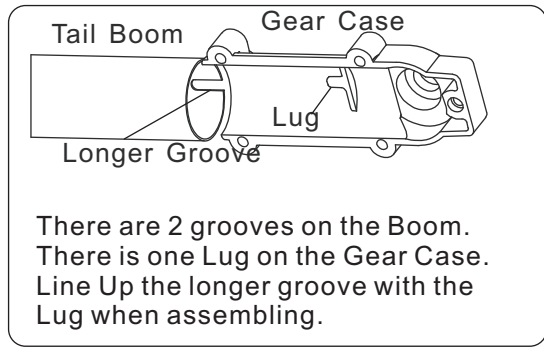
-  M3 Washer x4
-  M3 Nylon Lock Nut x8
-  M2.5x6 Cap Head Bolt x2
-  M3x25 Cap Head Bolt x4
-  M3x35 Cap Head Bolt x2
-  M3x40 Cap Head Bolt x4
-  M2.5 x8 Self Tapping Bolt X 4

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

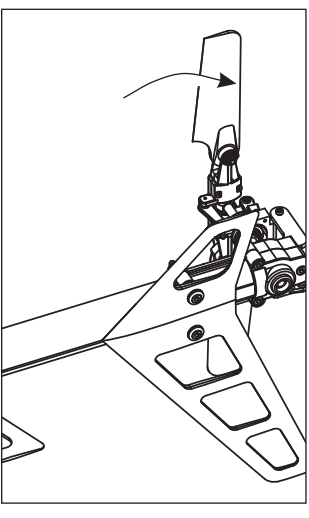
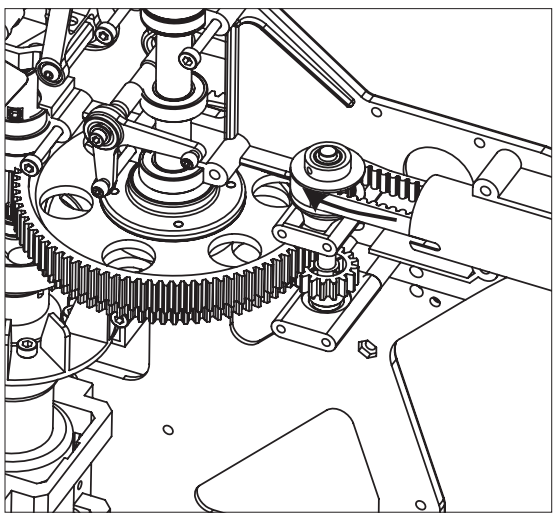



-  Use AB Glue
-  Blue Threadlock

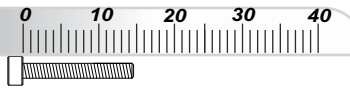
 **Caution** Be careful not to over tighten the Bolts when attaching the Tail Rotor Blades. The Tail Blades should be able to move with a slight amount of resistance within the Tail Blade Holders.




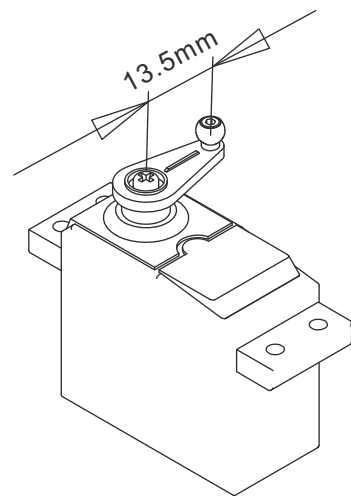
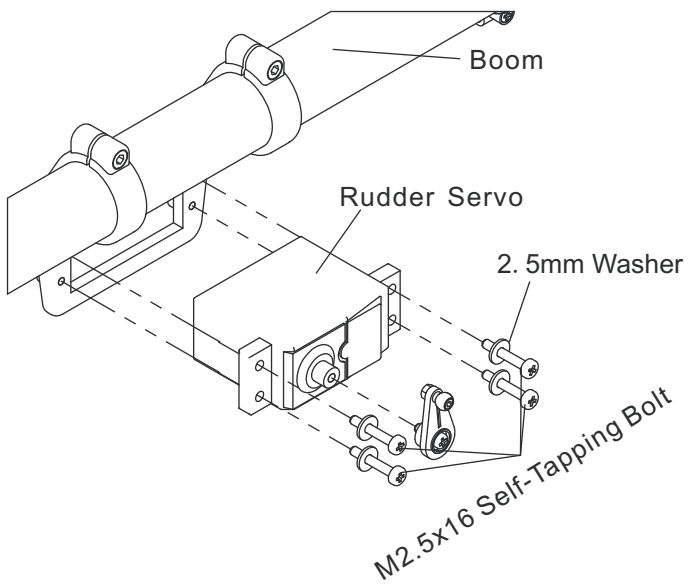
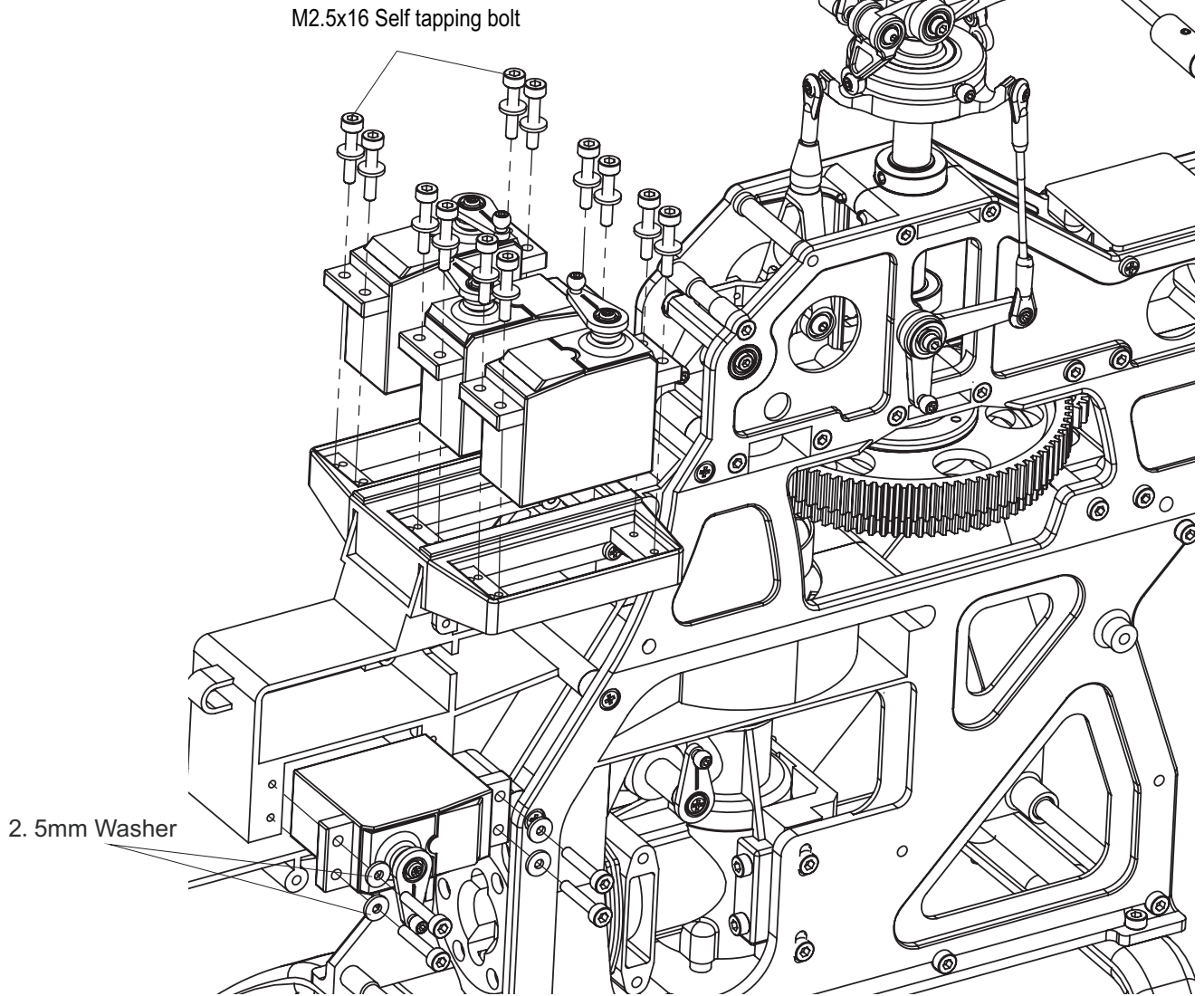
Tip : Check tail rotor direction. Top rotor blade moves to rear



 **Caution** At this point you will notice that the belt twists 90 degrees as it runs trough the tail boom. Care must be taken to assure that the belt is twisted in the correct direction. The key to this is to make sure the tail rotor rotates backward when the main rotor rotates in the proper direction. If the tail rotor rotates incorrectly, twist the belt in the other direction.



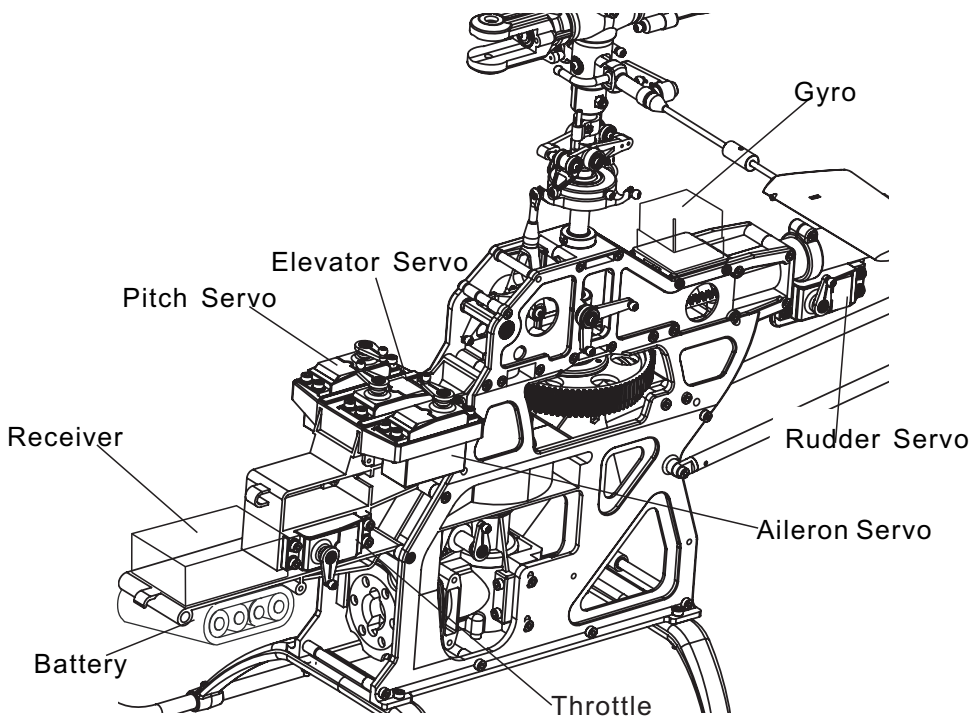

M2.5x16 Self tapping
bolt x20



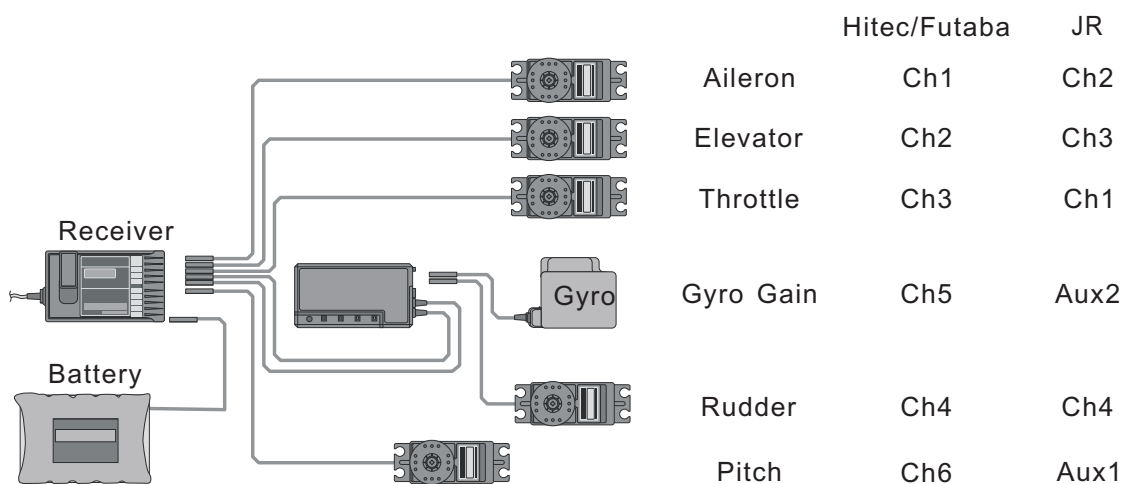
All control balls should to set at 13.5mm to the center of the servo horn

8

Equipment illustration

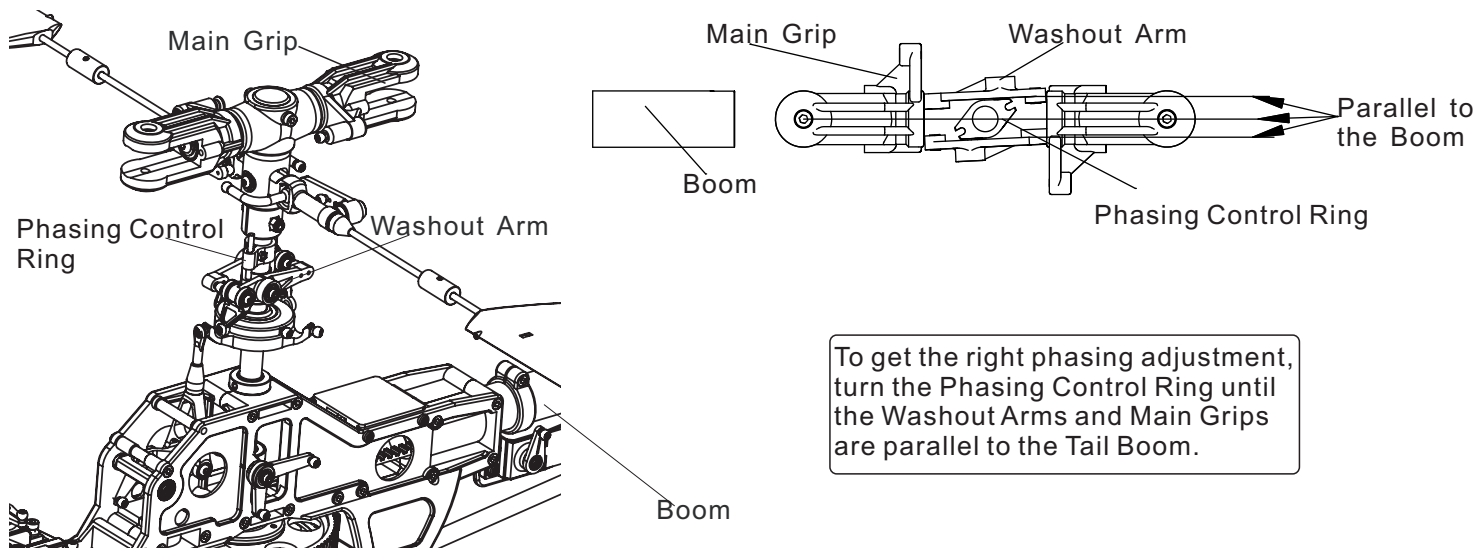


Please check first your radio manuals before connecting these electronic devices as shown below.



9

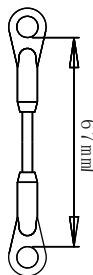
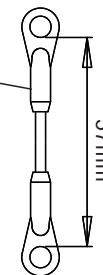
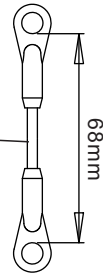
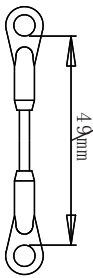
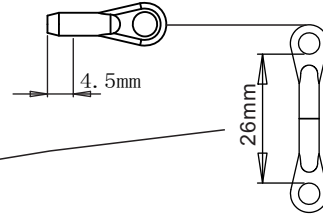
Phasing Control Ring Adjustment



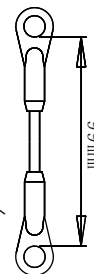


The following Linkage lengths indications are basic values. PLEASE BE AWARE THAT THEY COULD VARY depend on used Servos and Arms. Some fine adjustments are still needed in following setup steps.

Please cut 4.5mm from each ball links.

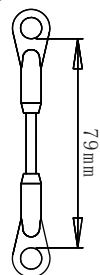


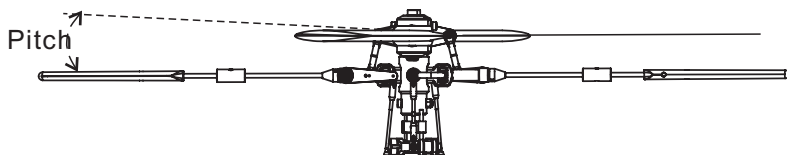
Compass Model Ball Links are designed to be tight; this allows you to adjust them to your personal needs. We highly suggest the use of a ball link sizing tool.



Caution

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

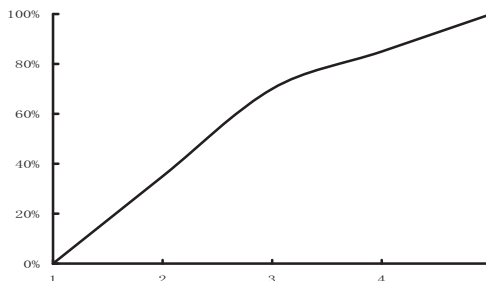




Throttle Curve

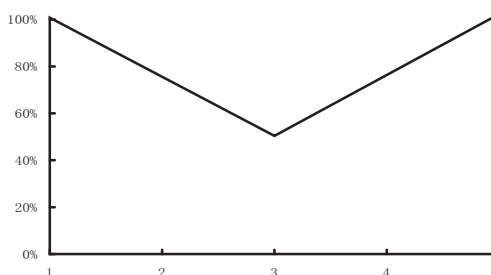
General Flight

	Throttle	Pitch
5	100%	10 deg
4	85%	
3	70%	4~5 deg
2	35%	
1	0%	-5 deg



3D Style

	Throttle	Pitch
5	100%	10deg
4	75%	6.5 deg
3	50%	0 deg
2	75%	-6.5 deg
1	100%	-10 deg



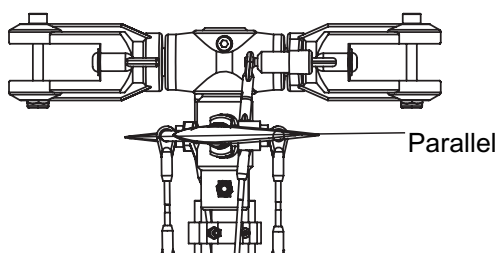
Swash Type Setting

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.

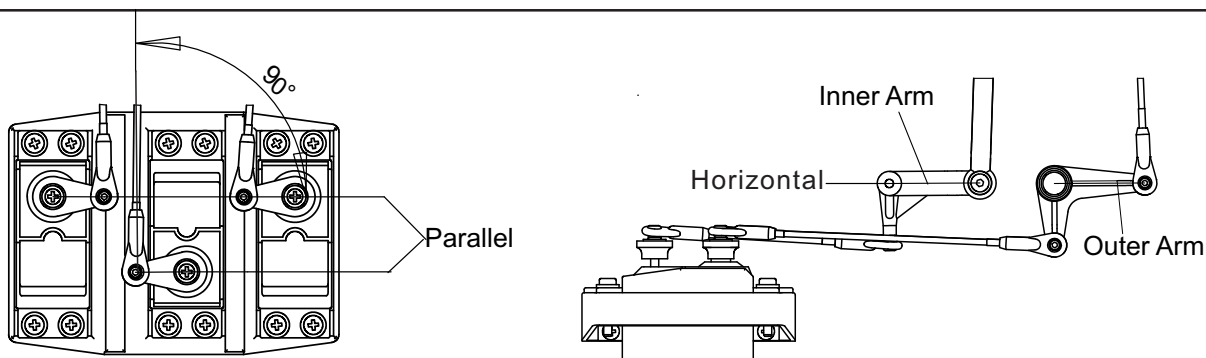
The data's shown above provide some general suggestions for radio setting. This information varies according to types of main blades, motor, pinion gear and engine. Adjustment has to be made during the actual flight.

A

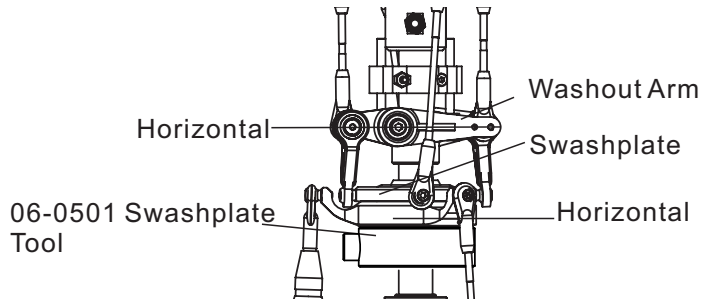


Make sure that the Flybar Control Arms and Paddles are in line as shown in the diagram.

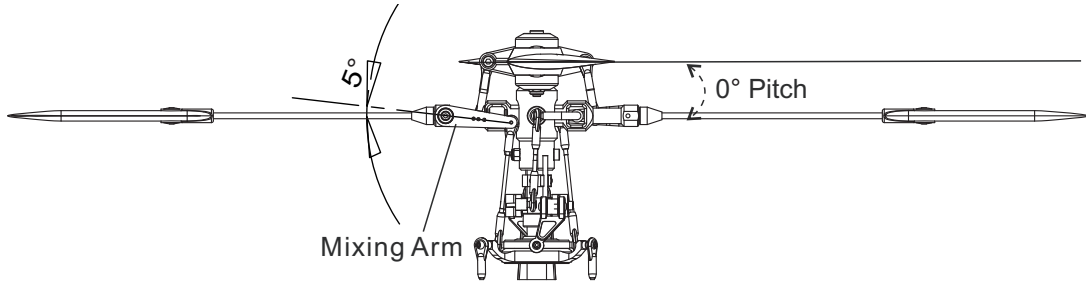
B



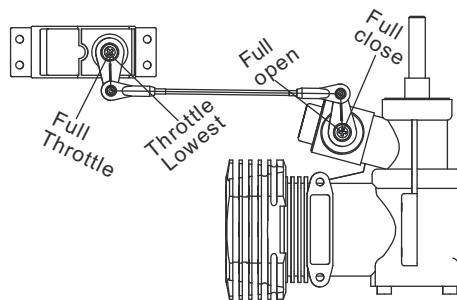
Turn on the radio, set throttle to middle position for 0 degree. Use the subtrim in radio program to adjust all the servo to get control horn to the right angle. Then adjust the links from servo to the L Arms (2 on outside of frame and 1 in the middle of the frame) so that the L arms are all Horizontal.

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 tail link And Set Tail Blade to 7 deg 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		Swashplate Reaction
<p>Aileron Check</p>				
<p>Elevator Check</p>				
<p>Pitch Check</p>				
<p>Rudder Check</p>				

13

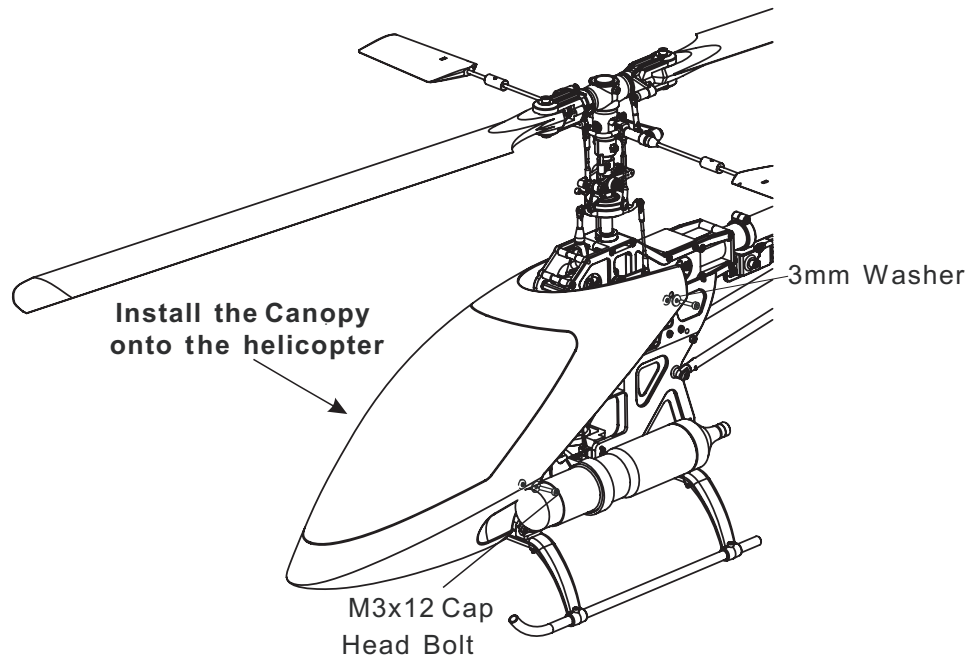
Canopy



3mm Washer X 4

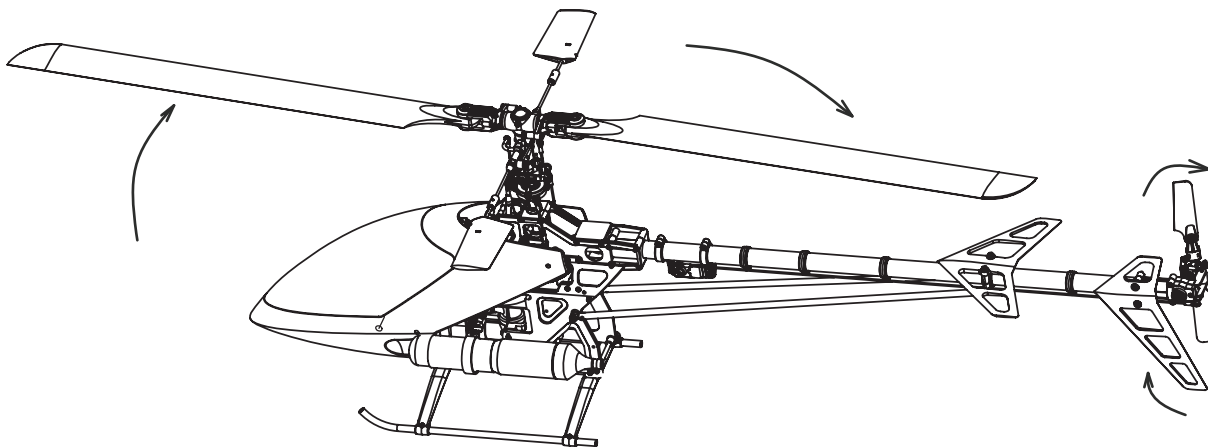


M3x12 Cap Head Bolt x4



14

Rotor Direction



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.

15

Pre Flight Check

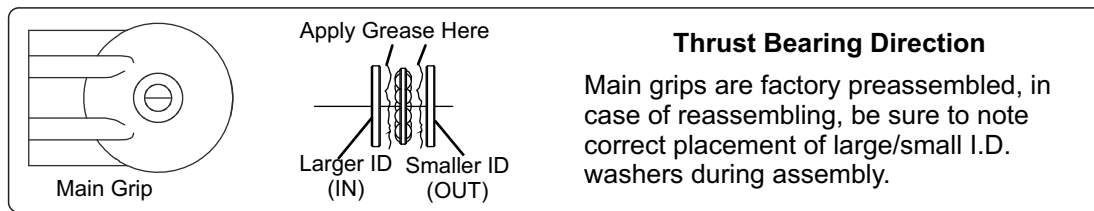


1. Ensure that receiver & transmitter battery are fully charged.
2. Check if all bolts and screws are fastened tightly and correctly.
3. Repeat step 12 to check all servo functions are correct.
4. Ensure tail and gyro direction are correctly set.
5. Check that main blades, paddles and tail blades are 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:

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.



Step 2:

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 3:

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

Step 6:

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.



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Parts List

SportX

Version 1.0/2009

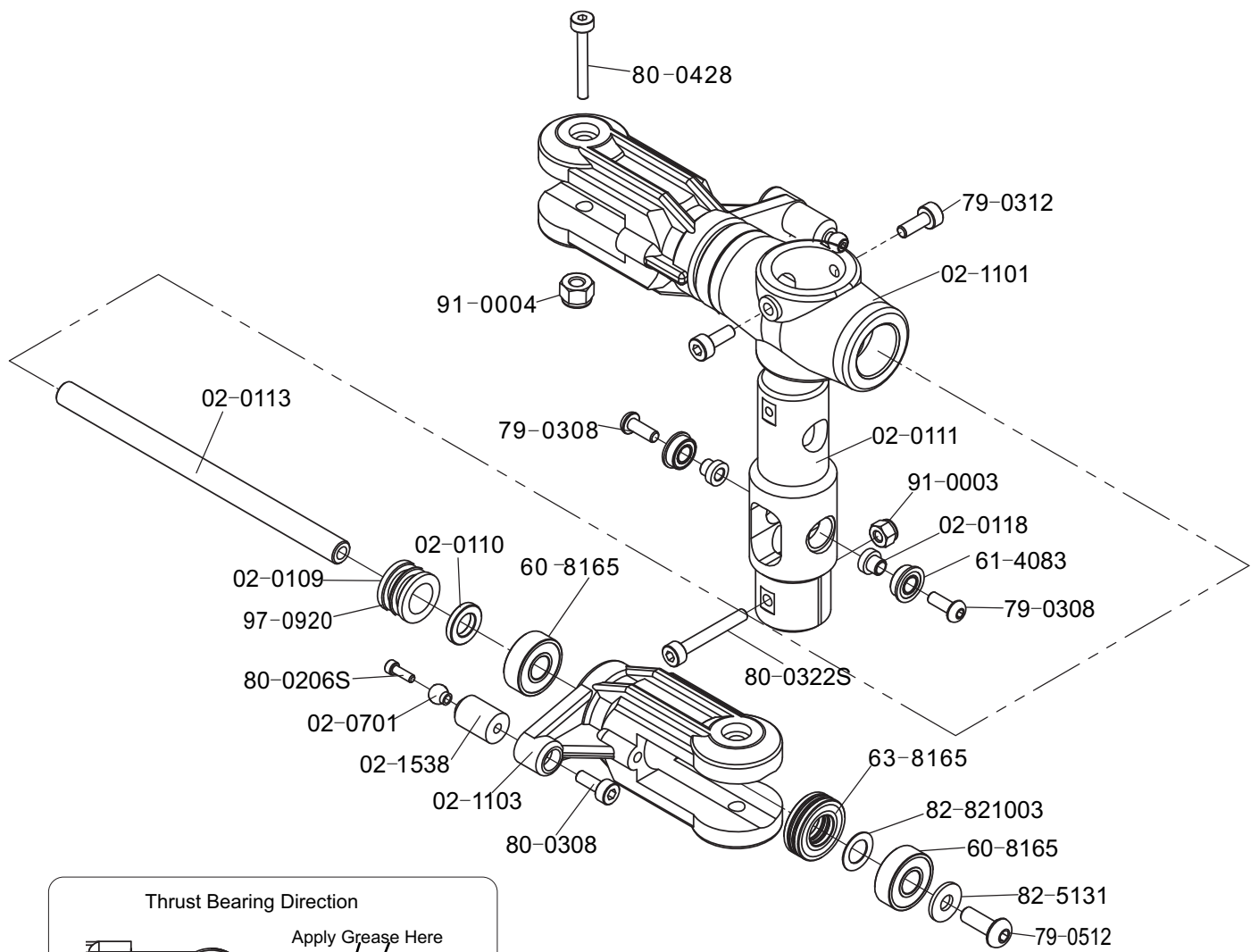


How to order your parts!

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 parts list may not reflect all recent product amendments.
For more information, please refer to; www.compassmodel.com



Thrust Bearing Direction

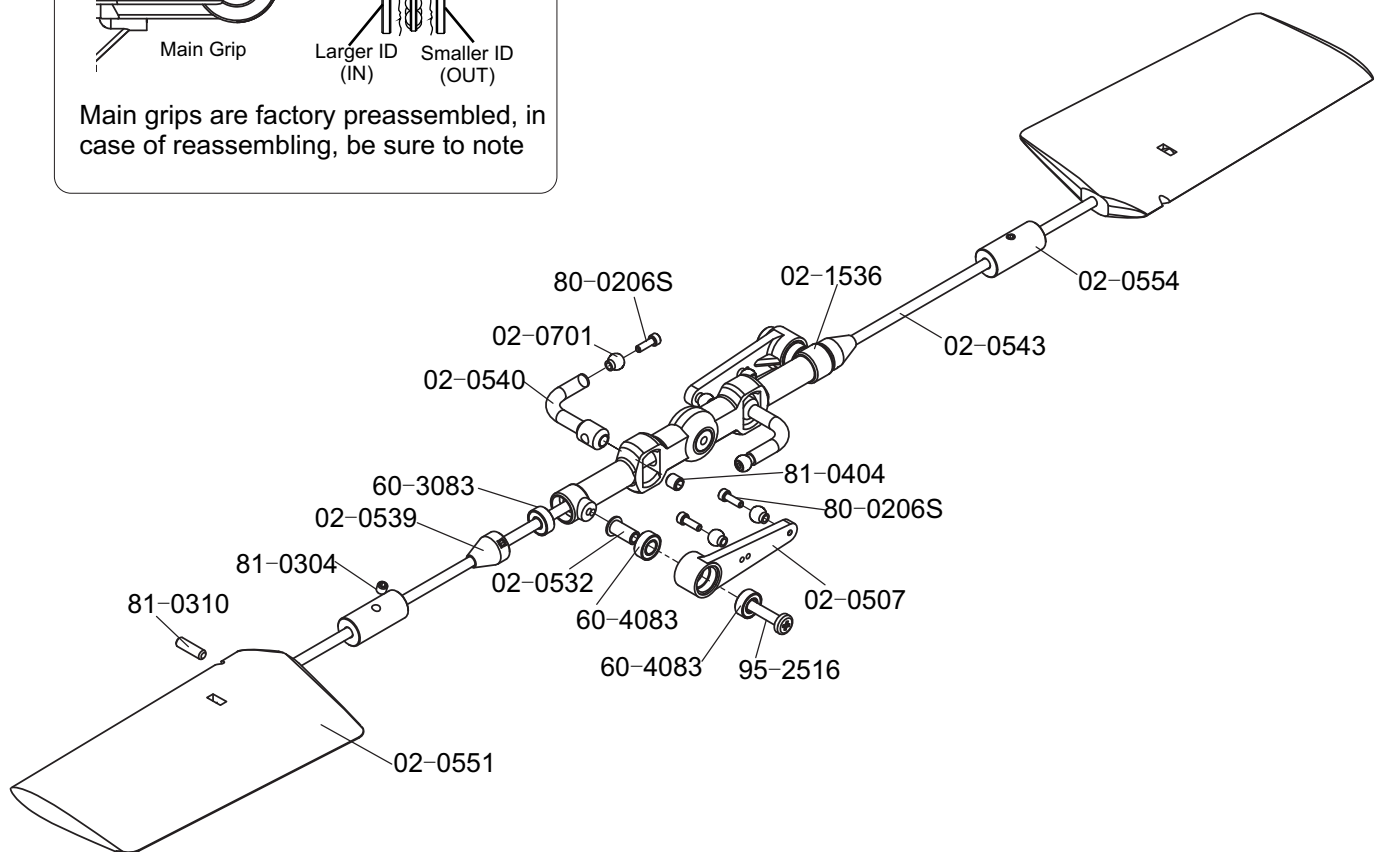
Apply Grease Here

Main Grip

Larger ID (IN)

Smaller ID (OUT)

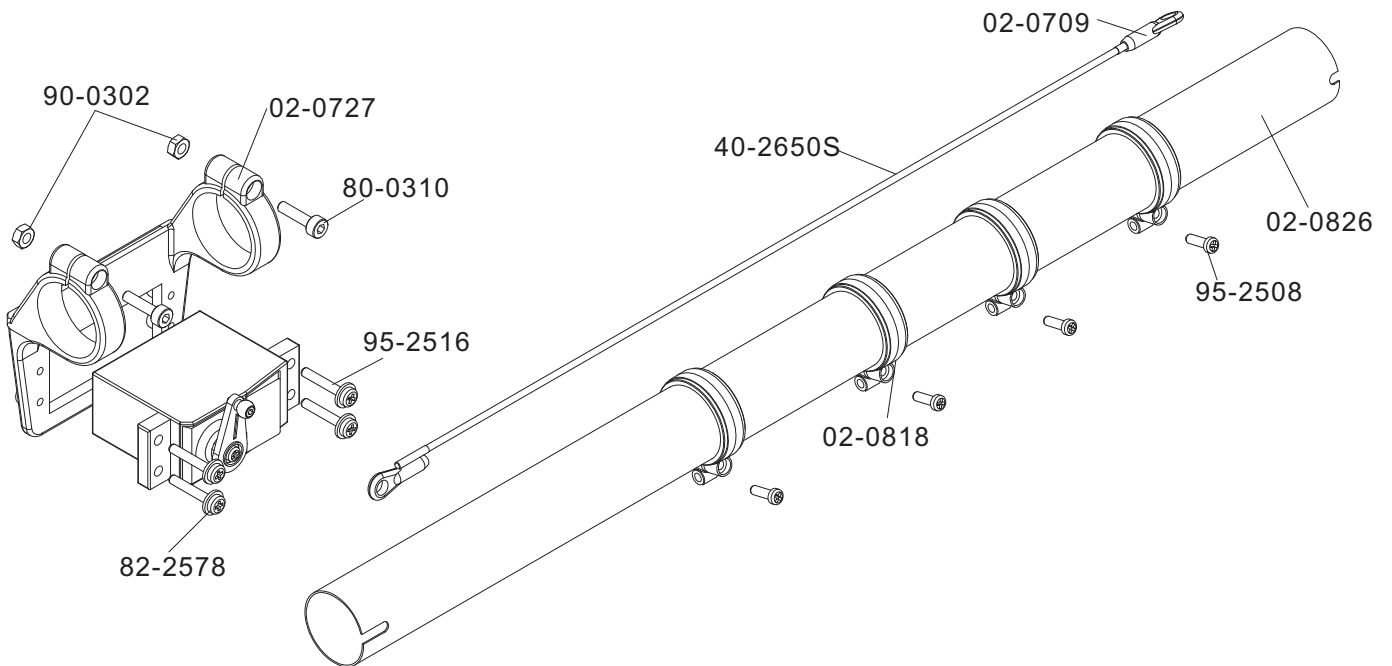
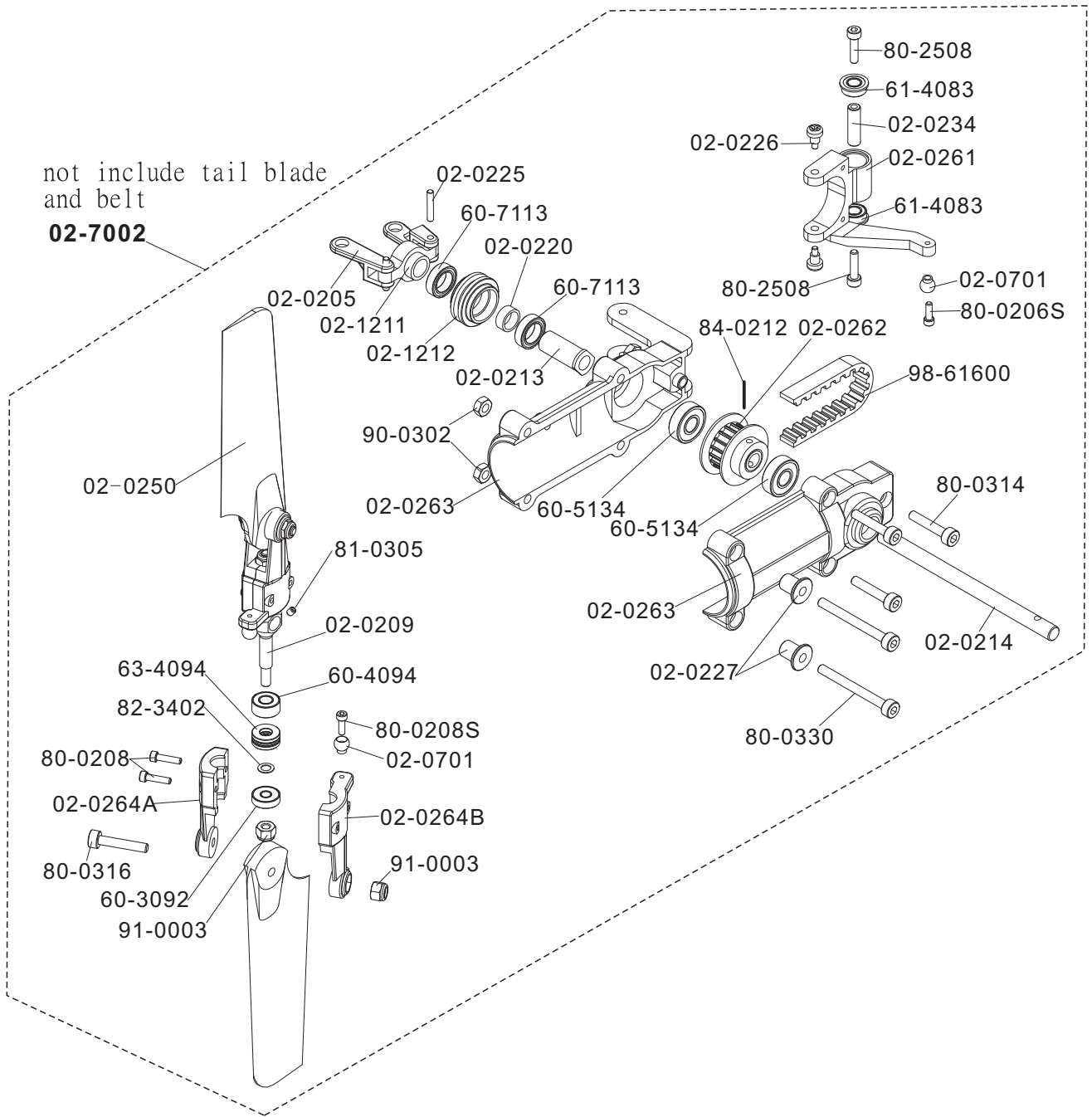
Main grips are factory preassembled, in case of reassembling, be sure to note



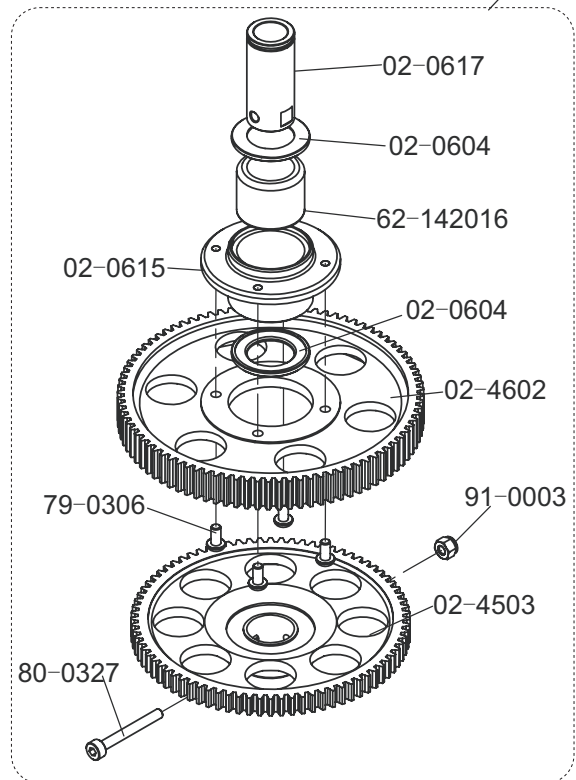
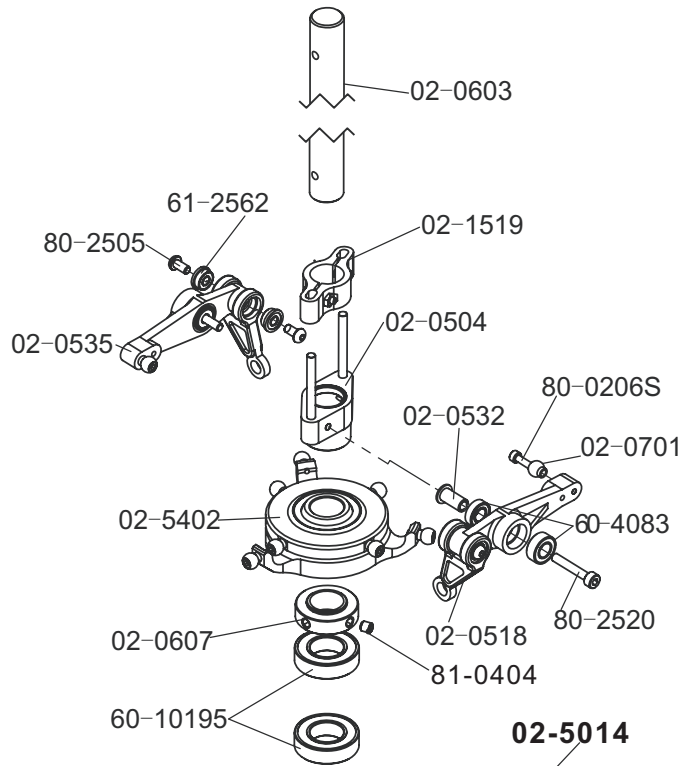
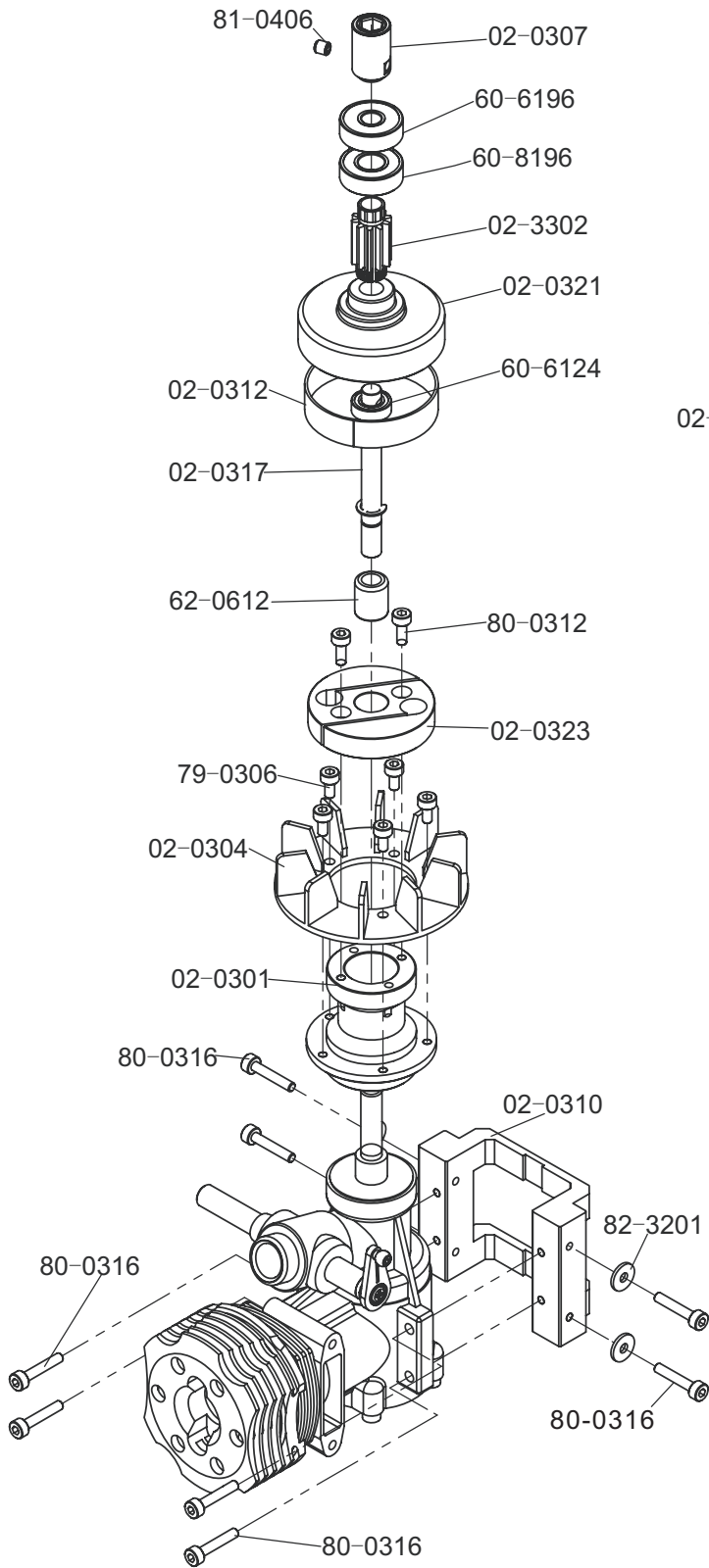
Part No.	Part Description	Order No.	Order Description	Qty.
02-0110	Spindle washer (3D)	02-0110	Spindle washer (3D)	2 pcs/bag
02-0109	Delrin dampener 8mm	02-0109	Delrin dampener 8mm	2 pcs/bag
02-0111	Rotor hub	02-1101S	Rotor hub with Yoke	1 set/bag
02-0113	Spindle shaft 8mm	02-0113	Spindle shaft 8mm	2 pcs/bag
02-0118	Collar (flybar support)	02-0118	Collar (flybar support)	2 pcs/bag
02-0507	Mixing Arm	02-0507	Mixing arm set	2 pcs/bag
02-0532	Bushings	02-0531S	Bushing set (includes 3 sizes)	6 pcs/bag
02-1538	Control ball spacer set	02-1538	Control ball spacer set	2 pcs/bag
02-0539	Flybar collar	02-0539	Flybar collar	2 pcs/bag
02-0540	Flybar control arm	02-0540S	Flybar control arm w, set screw	2 pcs/bag
02-0543	Flybar	02-0543	Flybar	2 pcs/bag
02-0551	Paddle	02-0551S	Paddle set	2 pcs/bag
02-0554	Flybar weight	02-0554S	Flybar weight w, set screw	2 pcs/bag
02-0701	Stainless link balls	02-0701	Stainless link balls	10 pcs/bag
02-1101	Yoke	02-1101S	Rotor hub with Yoke	1 set/bag
02-1103	Main blade holder set 8mm	02-1103	Main blade holder set 8mm	2 pcs/bag
02-1536	Flybar support	02-1536S	Flybar support	1 pcs/bag
60-3083	Ball Bearing 3x8x3	60-3083	Ball bearing 3x8x3	5 pcs/bag
60-4083	Ball Bearing 4x8x3	60-4083	Ball bearing 4x8x3	5 pcs/bag
60-8165	Ball bearing 8x16x5	60-8165	Ball bearing 8x16x5	2 pcs/bag
61-4083	Flanged bearing 4x8x3	61-4083	Flanged bearing 4x8x3	4 pcs/bag
63-8165	Thrust bearing 8x16x5	63-8165	Thrust bearing 8x16x5	2 set/bag
79-0308	Button Head Bolt M3x8	79-0308	Button Head Bolt M3x8	10 pcs/bag
79-0312	Button Head Bolt M3x12	79-0312	Button Head Bolt M3x12	10 pcs/bag
79-0512	Button head bolt M5x12	79-0512	Button head bolt M5x12	10pcs/bag
80-0206S	Cap Head Screw M2x6	80-0206S	Cap Head Screw M2x6	10 pcs/bag
80-0308	Cap head bolt M 3x8	80-0308	Cap head bolt M3x8	10pcs/bag
80-0322S	Shanked Bolt M3x22	80-0322S	Shanked Bolt M3x22	2 pcs/bag
80-0428	Shanked Bolt M4x28	80-0428	Shanked Bolt M4x28	2 pcs/bag
81-0304	Set Screw	81-0304	Set Screw	10 pcs/bag
81-0310	Set Screw	81-0310	Set Screw	10 pcs/bag
81-0404	Set Screw	81-0404	Set Screw	10 pcs/bag
82-5131	Washer 5.3x13x1	82-5131	Washer 5.3x13x1	10pcs/bag
82-821003	Washer 8.2x10x0.3	82-821003	Washer in 8mm main grip	2 pcs/bag
91-0003	Nylon nut M3	91-0003	Nylon nut M3	10 pcs/bag
91-0004	Nylon nut M4	91-0004	Nylon nut M4	10 pcs/bag
95-2516	Self Tapping Screw 2.5x16	95-2516	Self Tapping Screw 2.5x16	10 pcs/bag
97-0920	O - Ring dampener	Z-97-0920	O ring 13x9x2 for 8mm spindle	4 pcs/bag

not include tail blade
and belt

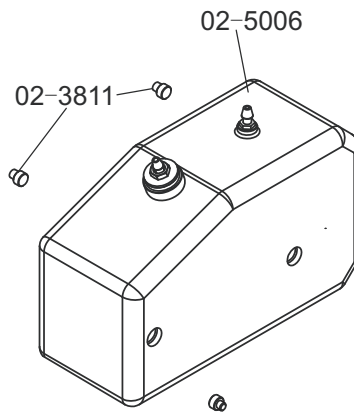
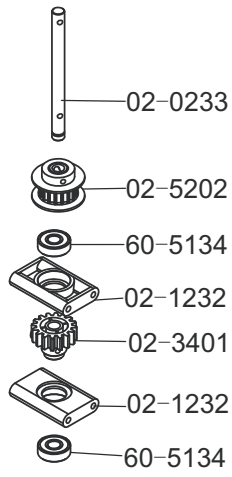
02-7002



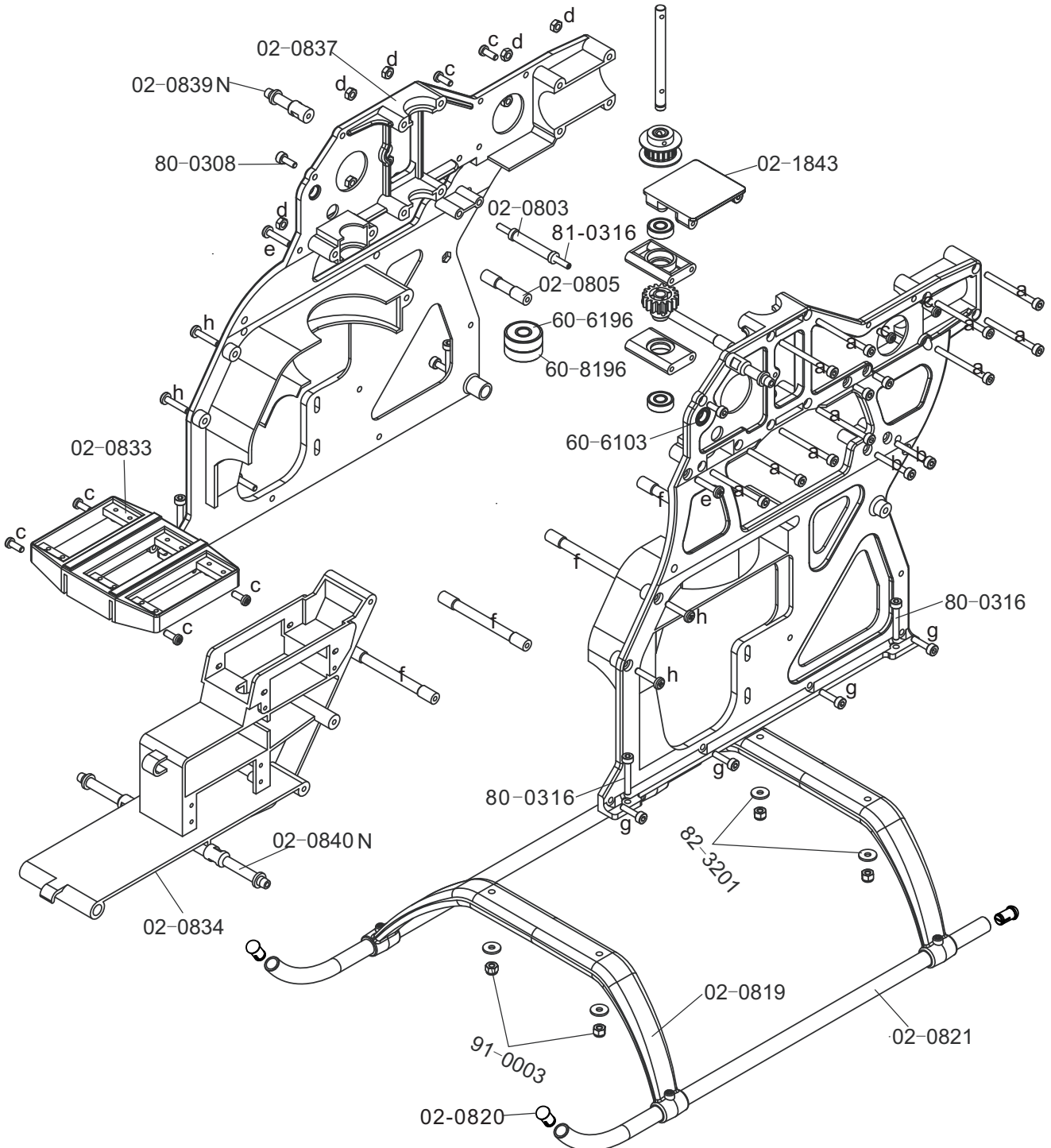
Part No.	Part Description	Order No.	Order Description	Qty.
02-0205	Tail Ball link	02-0205S	Tail blade links	2 pcs/bag
02-0209	Tail rotor hub	02-0209	Tail rotor hub	1 pcs/bag
02-0213	Tail slide ring sleeve	02-0213	Tail slide ring sleeve	1 pcs/bag
02-0214	Tail shaft	02-0214	Tail shaft	2 pcs/bag
02-0220	Tail pitch plate Collar		Provided w, 02-7002	
02-0225	Grooved parallel pin		Provided w, 02-0205S	
02-0226	Guide pin bolt		Provided w, 02-0261Z	
02-0227	Fin Bushing	02-0227	Fin Bushing	2 pcs/bag
02-0234	Tail pitch lever collar		provided w, 02-0261Z	
02-0250	Tail blade	02-0250	Tail blade	1 set/bag
02-0261	Tail pitch lever	02-0261Z	Tail pitch lever set w,BB,collar & bolts	1 set/bag
02-0262	Pulley wheel	02-0262S	Tail rotor pulley with spring pin	1 pcs/bag
02-0263	Tail case plastic	02-0263Z	Tail case plastic w, BB & bolts	1 pcs/bag
02-0264AB	Tail blade holder	02-0264AB	Tail blade holder	2 pcs/bag
02-0701	Stainless link balls	02-0701	Stainless link balls	10 pcs/bag
02-0709	Ball links	02-0709	Ball links	10 pcs/bag
02-0727	Rudder servo mount	02-0727S	Tail boom servo mount set plastic	1set/bag
02-0818	Tail control rod guide clamp	02-0818S	Tail control rod guide clamp	4pcs/bag
02-0826	Tail boom 705mm	02-0826	Tail boom 705mm	1 pcs/bag
02-1211	Tail pitch plate w, BB	02-1211	Tail pitch plate w, BB	1 pcs/bag
02-1212	Tail pitch slider	02-1212Z	Tail pitch slider assembly w, BB	1 pcs/bag
02-7002	Tail assembly set	02-7002	Tail assembly set	1 set/bag
40-2650S	Tail control rod 2X650	40-2650S	Tail control rod 2X650	1 set/bag
60-3092	Ball bearing 3x9x2.5	60-3092	Ball bearing 3x9x2.5	4 pcs/bag
60-4094	Ball bearing 4x9x4	60-4094	Ball bearing 4x9x4	5 pcs/bag
60-5134	Ball bearing 5x13x4	60-5134	Ball bearing 5x13x4	2 pcs/bag
60-7113	Ball bearing 7x11x3	60-7113	Ball bearing 7x11x3	2 pcs/bag
61-4083	Flanged bearing 4x8x3	61-4083	Flanged bearing 4x8x3	4 pcs/bag
63-4094	Thrust Bearing 4x9x4	63-4094	Thrust Bearing 4x9x4	2 pcs/bag
80-0206S	Cap Head Screw M2x6	80-0206S	Cap Head Screw M2x6	10 pcs/bag
80-0208	Cap Head Bolt M2x8	80-0208	Cap Head Bolt M2x8	10 pcs/bag
80-0208S	Cap Head Bolt M2x8	80-0208S	Cap Head Bolt M2x8	10 pcs/bag
80-0310	Cap head Bolt M3x10	80-0310	Cap head Bolt M3x10	10 pcs/bag
80-0314	Cap head Bolt M3x14	80-0314	Cap head Bolt M3x14	10 pcs/bag
80-0316	Cap Head Bolt M3x16	80-0316	Cap Head Bolt M3x16	10 pcs/bag
80-0330	Cap Head Bolt M3x30	80-0330	Cap Head Bolt M3x30	10 pcs/bag
80-2508	Cap Head Bolt M2.5x8	80-2508	Cap Head Bolt M2.5x8	10 pcs/bag
81-0305	Set Screw	81-0305	Set Screw	10 pcs/bag
82-2578	washer 2.7x7x0.8	82-2578	washer 2.7x7x0.8	10 pcs/bag
82-3402	Plain Washer 3.2x5.2x0.3	82-3402	Plain Washer 3.2x5.2x0.3	10 pcs/bag
84-0212	Spring Pin 2x12		Provided w, 02-0262S	
90-0302	Hexagonal Nut 3x2.5	90-0302	Hexagonal Nut 3x2.5	10 pcs/bag
91-0003	Nylon nut M3	91-0003	Nylon nut M3	10 pcs/bag
95-2508	Self Tapping Bolt 2.5x8	95-2508	Self Tapping Bolt 2.5x8	10 pcs/bag
95-2516	Self Tapping Bolt 2.5x16	95-2516	Self Tapping Bolt 2.5x16	10 pcs/bag
98-61600	Tail belt S3M1569	98-61600	Tail belt S3M1569	1 pcs/bag



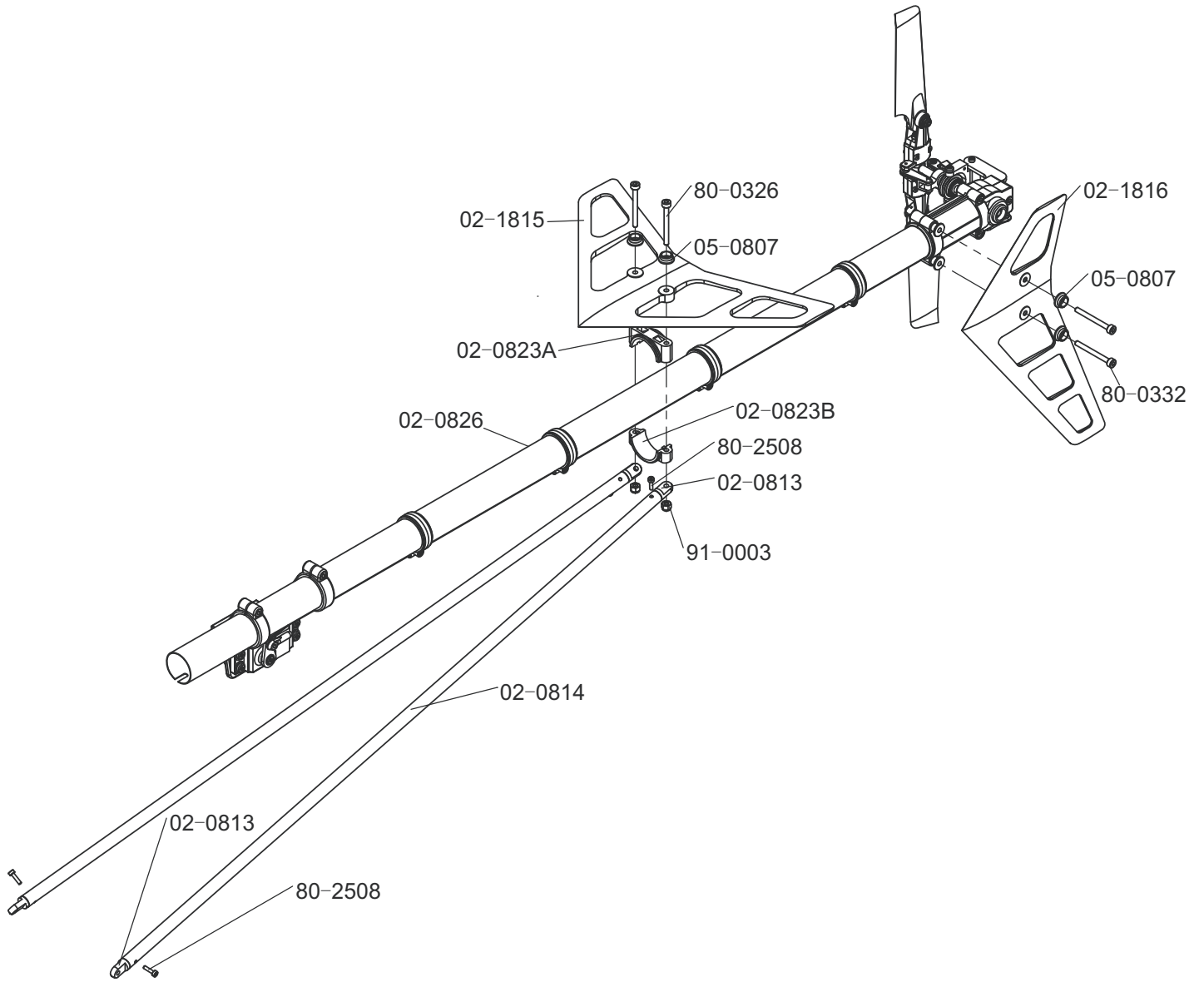
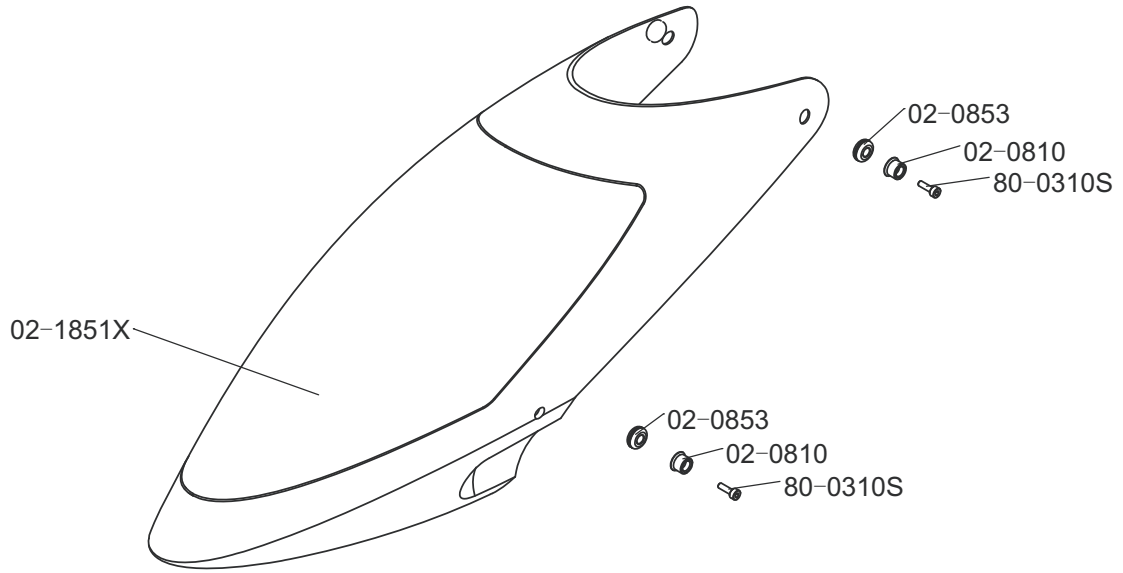
Part No.	Part Description	Order No.	Order Description	Qty.
02-0301	Cooling fan hub	02-0301	Cooling fan hub	1 pcs/bag
02-0304	Cooling fan	02-0304	Cooling fan	1 pcs/bag
02-0307	Starter coupling	02-0307S	Starter coupling	1 pcs/bag
02-0310	Engine mount (sport)	02-0310	Engine mount (sport)	1 pcs/bag
02-0312	Clutch Liner	02-0312	Clutch liner	1 pcs/bag
02-0317	Start Shaft	02-0317S	Starter shaft w, E-Clip	1 pcs/bag
02-0321	Clutch bell	02-0321Z	Clutch bell w, BB and liner	1 set/bag
02-0323	Clutch	02-0323Z	Clutch w, one way bearing and bolts	1 pcs/bag
02-0504	Washout base block	02-0504S	Washout base set (w, 2 bases)	1 set/bag
02-0518	Washout links	02-0518	Washout links	2 pcs/bag
02-0532	Bushings	02-0531S	Bushing set (includes 3 sizes)	6 pcs/bag
02-0535	Wash control arm	02-0535	Wash out control arm	2 pcs/bag
02-0603	Main shaft(sport)	02-0603	Main shaft(sport)	1 pcs/bag
02-0604	Cover		provided with 02-5014	
02-0607	Mast lock	02-0607S	Mast lock collar w, screw	1 pcs/bag
02-0615	Auto-rotation shell	02-0615Z	Autorotation hub with one way bearing	1 pcs/bag
02-0617	Autorotation sleeve	02-0617S	Autorotation sleeve with E-Clip	1 pcs/bag
02-0701	Stainless link balls	02-0701	Stainless link balls	10 pcs/bag
02-1519	Slide block	02-0504S	Washout base set (w, 2 bases)	1 set/bag
02-3302	Drive gear	02-3302	Drive gear	1 pcs/bag
02-4503	Second gear molded	02-4503	Second gear molded	1 pcs/bag
02-4602	Main gear molded	02-4602	Main gear molded	1 pcs/bag
02-5014	Double gear assembly	02-5014	Double gear assembly	1 set/bag
02-5402	Swash plate	02-5402	Swashplate	1 set/bag
60-10195	Ball bearing 10x19x5	60-10195	Ball bearing 10x19x5	4 pcs/bag
60-4083	Ball bearing 4x8x3	60-4083	Ball bearing 4x8x3	5 pcs/bag
60-6124	Ball bearing 6x12x4	60-6124	Ball bearing 6x12x4	2 pcs/bag
60-6196	Ball bearing 6x19x6	60-6196	Ball bearing 6x19x6	2 pcs/bag
60-8196	Ball bearing 8x19x6	60-8196	Ball bearing 8x19x6	2 pcs/bag
61-2562	Flanged bearing 2.5x6x2.6	61-2562	Flanged bearing 2.5x6x2.6	4 pcs/bag
62-0612	One way bearing 6x10x12	62-0612	One way bearing 6x10x12	1 pcs/bag
62-142016	One way bearing 14x20x16	62-142016	One way bearing 14x20x16	1 pcs/bag
79-0306	Button head Bolt M3x6	79-0306	Button head Bolt M3x6	10 pcs/bag
80-0206S	Cap Head Bolt M2x6	80-0206S	Cap Head Bolt M2x6	10 pcs/bag
80-0312	Cap Head Bolt M3x12	80-0312	Cap Head Bolt M3x12	10 pcs/bag
80-0316	Cap Head Bolt M3x16	80-0316	Cap Head Bolt M3x16	10 pcs/bag
80-0327	Shanked Bolt M3x27	80-0327	Shanked Bolt M3x27	2 pcs/bag
80-2505	Cap Head Bolt M2.5x5	80-2505	Cap Head Bolt M2.5x5	10 pcs/bag
80-2520	Cap Head Bolt M2.5x20	80-2520	Cap Head Bolt M2.5x20	10 pcs/bag
81-0404	Set Screw	81-0404	Set Screw	10 pcs/bag
81-0406	Set Screw	81-0406	Set Screw	10 pcs/bag
82-3201	Washer	82-3201	Washer	10 pcs/bag
91-0003	Nylon nut M3	91-0003	Nylon nut M3	10 pcs/bag



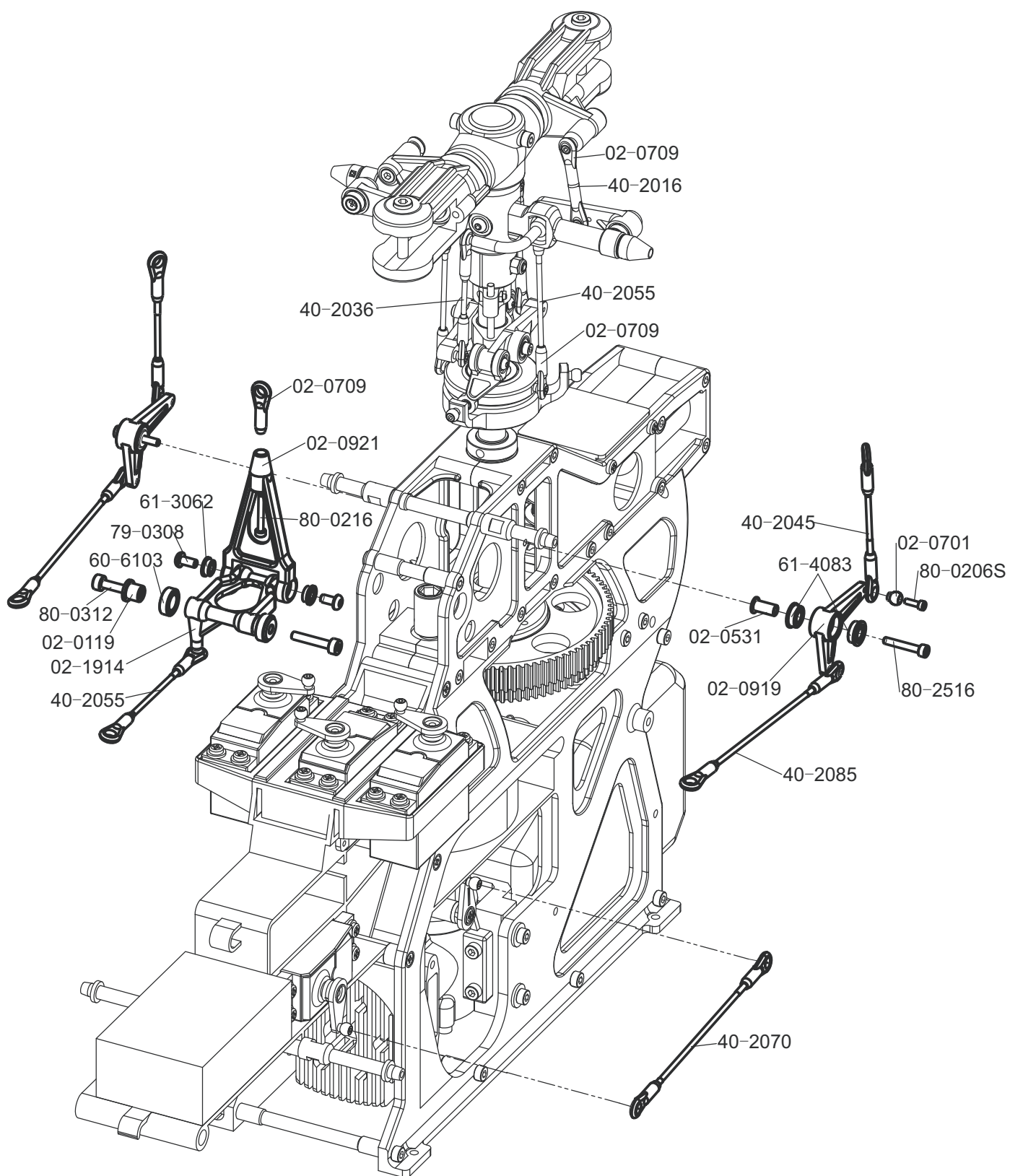
- a: 80-0335
- b: 80-0322
- c: 95-0310
- d: 90-0302
- e: 95-0316
- f: 02-0807
- g: 80-0310
- h: 95-0320



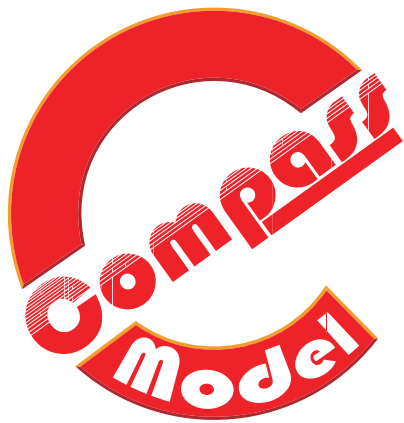
Part No.	Part Description	Order No.	Order Description	Qty.
02-0233	Counter gear shaft	02-0233S	Counter gear shaft with E-Clip	2 pcs/bag
02-0803	Cross members 3x30	02-0803	Cross members 3x30	3 pcs/bag
02-0805	Cross members M3x30	02-0805	Cross members M3x30	5 pcs/bag
02-0807	Cross members M3x60	02-0807	Cross members M3x60	3 pcs/bag
02-0819	Struts	02-0819	Struts	2 pcs/bag
02-0820	Skid end cap	02-0820	Skid end cap set	4 pcs/bag
02-0821	Skids	02-0821	Skids	2 pcs/bag
02-0833	Front servo mount	02-0833S	Front servo mount w, bolts	1 pcs/bag
02-0834	Front servo tray	02-0834	Front servo tray	1 pcs/bag
02-0837	Main frame right	02-0837	Main frame right	1 pcs/bag
02-0838	Main frame left	02-0838	Main frame left	1 pcs/bag
02-0839N	Canopy standoff front	02-0840N	Canopy standoff set(sport)	4pcs/bag
02-0840N	Canopy standoff back	02-0840N	Canopy standoff set(sport)	4pcs/bag
02-1232	Bearing holder plastic (tail drive)	02-1232	Bearing holder plastic (tail drive)	2 pcs/bag
02-1843	Gyro tray plastic	02-1843	Gyro tray plastic	1 pcs/bag
02-3401	Counter gear (machined)	02-3401S	Counter gear (machined)	1 pcs/bag
02-3811	Tank rubber dampener	02-3811	Tank rubber dampener	4 pcs/bag
02-5006	Fuel tank assembly	02-5006	Fuel tank assembly	1 set/bag
02-5202	Tail drive pulley	02-5202S	Tail drive pulley	1 pcs/bag
60-5134	Ball bearing 5x13x4	60-5134	Ball bearing 5x13x4	2 pcs/bag
60-6103	Ball bearing 6x10x3	60-6103	Ball bearing 6x10x3	2 pcs/bag
60-6196	Ball bearing 6x19x6	60-6196	Ball bearing 6x19x6	2 pcs/bag
60-8196	Ball bearing 8x19x6	60-8196	Ball bearing 8x19x6	2 pcs/bag
80-0308	Cap Head Bolts M3x8	80-0308	Cap Head Bolts M3x8	10 pcs/bag
80-0310	Cap Head Screw M3x10	80-0310	Cap Head Screw M3x10	10 pcs/bag
80-0316	Cap Head Bolt M3x16	80-0316	Cap Head Bolt M3x16	10 pcs/bag
80-0322	Cap Head Bolt M3x22	80-0322	Cap Head Bolt M3x22	10 pcs/bag
80-0335	Cap Head Bolts M3x35	80-0335	Cap Head Bolts M3x35	10 pcs/bag
81-0316	Set Screw M3x16	81-0316	Set Screw M3x16	10 pcs/bag
82-3201	washer 3.2x10x1.2	82-3201	washer 3.2x10x1.2	10 pcs/bag
95-0310	Self tapping bolt M3x10	95-0310	Self tapping bolt M3x10	10 pcs/bag
95-0316	Self tapping bolt M3x16	95-0316	Self tapping bolt M3x16	10 pcs/bag
95-0320	Self tapping bolt M3x20	95-0320	Self tapping bolt M3x20	10 pcs/bag
90-0302	Hexagonal nut3x2.5	90-0302	Hexagonal nut3x2.5	10 pcs/bag
91-0003	Nylon nut M3	91-0003	Nylon nut M3	10 pcs/bag



Part No.	Part Description	Order No.	Order Description	Qty.
02-1851X	Painted FG canopy (sportX)	02-1851X	Painted FG canopy (sportX)	1 pcs/bag
02-0853	Canopy rubber grommets	02-0853	Canopy Dampner	10 pcs/bag
02-0810	Canopy bolts	02-0810SB	Canopy bolts (blue)	4 pcs/bag
02-0813	Tail boom brace connectors	02-0813S	Tail boom brace connectors w,bolts	4 pcs/bag
02-0814	Tail boom braces 530mm	02-0814S	Tail boom brace w, connectors 530mm	2 pcs/bag
02-1815	Horizontal fin	02-1815	Horizontal fin	1 pcs/bag
02-0823AB	Tail boom support clamp	02-0823AB	Tail boom support clamp	1 pcs/bag
02-0826	Tail boom 705mm	02-0826	Tail boom 705mm	1 pcs/bag
02-1816	Tail fin	02-1816	Tail fin	1 pcs/bag
05-0807	Screw caps M3	05-0807B	Screw caps M3 blue	10 pcs/bag
80-2508	Cap Head Screw M2.5x8	80-2508	Cap Head Screw M2.5x8	10pcs/bag
80-0310S	Cap Head Bolt M3x10	80-0310S	Cap Head Stainless Bolt M3x10	10pcs/bag
80-0326	Cap Head Screw M3x26	80-0326	Cap Head Screw M3x26	10pcs/bag
80-0332	Cap Head Screw M3x32	80-0332	Cap Head Screw M3x32	10pcs/bag
91-0003	Nylon nut M3	91-0003	Nylon nut M3	10pcs/bag



Part No.	Part Description	Order No.	Order Description	Qty.
02-0119	Collar	02-0119	Collar	2 pcs/bag
02-0531	Collar	02-0531S	Bushing set (includes 3 sizes)	6 pcs/bag
02-0701	Stainless link balls	02-0701	Stainless link balls	10 pcs/bag
02-0709	Ball links	02-0709	Ball links	10 pcs/bag
02-0919	L-Lever set	02-0919	L-Lever set	2 pcs/bag
02-0921	Elevator A-Arm	02-0921	Elevator A-Arm	1 pcs/bag
02-1914	A-Arm base	02-1914	A-Arm base	1 pcs/bag
40-2036	link 2X36	E-LG-01	Link Rod set (Sportx)	1 set/bag
40-2045	link 2X45	E-LG-01		1 set/bag
40-2055	link 2X55	E-LG-01		1 set/bag
40-2070	link 2X70	E-LG-01		1 set/bag
40-2085	link 2X85	E-LG-01		1 set/bag
60-6103	Ball bearing 6x10x3	60-6103	Ball bearing 6x10x3	2 pcs/bag
61-3062	Flanged bearing 3x6x2	61-3062	Flanged bearing 3x6x2	4 pcs/bag
61-4083	Flanged bearing 4x8x3	61-4083	Flanged bearing 4x8x3	4 pcs/bag
79-0308	Button head Bolt 3x6	79-0308	Button head Bolt 3x6	10pcs/bag
80-0206S	Cap Head Bolt M2x6	80-0206S	Cap Head Bolt M2x6	10pcs/bag
80-0216	Cap Head Bolt M2x16	80-0216	Cap Head Bolt M2x16	10pcs/bag



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