

>> Features of the Fusion 50

- Fully adjustable head allowing multiple setups from high stability to maximum agility making it perfect for the beginner to advanced pilot.
- Extra long washout base for increased lever stability.
- Dual ball raced 120 CCPM swash plate.
- Achievable pitch range of +15/-15 degrees
- Ultra compact frame technology for superior frame rigidity.
- High quality fiber reinforced injection molded plastics.
- Adjustable servo mounts for various size and brand servos.
- · Adjustable drive train for optional gear ratios.
- · Ultra high strength injection molded drive gears.
- · Zero pitch alignment points for easy head setup.
- Optimal servo positions for increased accuracy in control.
- · Battery tray removable for fast battery changes.
- Suitable for 6 -12 cell battery packs.
- · Wide variety of usable motor KV's and motor dimensions.





- · Light weight fiberglass canopy construction .
- · High quality Canomod painted canopy.
- New tail pitch control system for smooth precise control.
- Torque tube design for efficiency.
- Ultra high strength Injection molded torque tube gears.
- High quality Carbon 95mm tail blades.
- Length: 1207mm Height: 368mm Width: 203mm
- Main Rotor Blade Size 600-640mm
- Main Rotor Diameter: 1345mm 1425mm
- Tail Blade Length: 95mm
- Tail Rotor Diameter:250mm
- STD Main Gear: 129T 0.8 Mod
- STD Pinion:13T (5 and 6mm included)
- STD Drive Gear Ratio:1:10.75:4.58/1:9.21:4.58/1:8.05:4.58
- Approximate Weight:1410g (without electronics)





Introduction

Please Read Before Beginning Assembly

Thank you for purchasing this Outrage RC product. The Fusion 50 radio controlled helicopter is designed with easy to use features and is capable of a multitude of flight characteristics and styles – from beginner, basic, to advanced 3D aerobatic rotary flight. In order to use this product safely, please read and understand this manual before flying the helicopter. Please fly the helicopter safely, observing all rules and instructions after having fully understood the flight precautions, the unit's capabilities, and the best way to fly the helicopter. Be sure to retain this manual for future reference, routine maintenance, and tuning.

Meaning of symbols

(!) Caution:	Mishandling due to failure to follow these instructions may result in serious harm.
(!) Warning:	Mishandling due to failure to follow these instructions may result in severe injury or death.
S Forbidden:	Do not attempt under any circumstances.

This radio controlled helicopter is not a Toy!

Radio controlled helicopters use various high tech electronic technologies and products. Improper use of this product can result in serious injury, or even death. Please read this manual carefully before flying the Fusion 50, and make sure to be conscious of your own personal safety and the safety of others. Be conscious of your surroundings and environment when operating Outrage products. Outrage RC, affiliated groups, and the seller assume no liability for the operation or use of this product. The user/purchaser is responsible for common knowledge and implantation of one's personal safety, and the safety of others, that may be affected by the use of the product, be they a participant or spectator. This radio controlled helicopter is intended for use only by adults with experience flying radio controlled helicopters at a legal flying field. After the sale of this product, we cannot maintain any control over its operation or usage. We recommend that you obtain assistance from an experienced pilot before attempting to fly our products, and to help verify proper assembly, setup, and flight of your model for the first time. This Outrage helicopter is a consumer item that requires a certain degree of skill to operate. Any damage or dissatisfaction as a result of accidents or modifications are not covered by any warrantee, and cannot be returned for repair or replacement. For issues with your Outrage helicopter or product, please contact us for technical assistance.

Safety notes:

Choose a legal flying field

- Verify the airfield has ample space, flat, and smooth ground.
- Clear the airfield from debris and obstacles.

Do not operate

- > In strong winds, at night, or in the rain.
- > If model has been in contact with rain, moisture, or contaminants.
- > In cold climate conditions plastics are very susceptible to damage due to cold climates.
- > If model has been in contact with fire or high heat plastics are very susceptible to damage or deformation due to heat.
- ➤ In crowed areas.
- ➤ Near homes, schools, or hospitals.
- ➤ Near roads, railways, or power lines.
- > Near another radio controlled unit that uses the same frequency.
- > Do not allow children to operate.
- > If tired, sick, or under the influence of drugs or alcohol.
- > If a beginner or individual(s) planning to operate a borrowed helicopter without being familiar with the model or safety instructions.

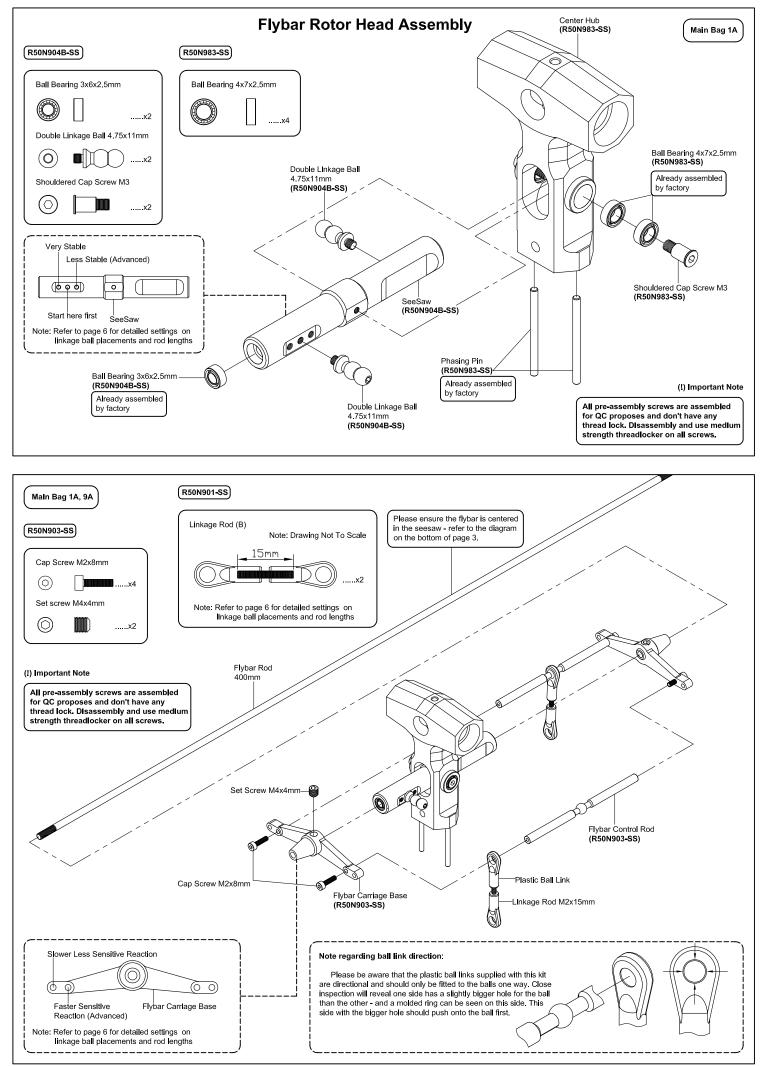
Inspect all parts

- > Before each flight, check for damaged parts and verify all parts operate normally with all functions in order.
- > Adjust the positioning of movable parts and check that all nuts, bolts, screws are fastened correctly in accordance to this instruction manual.
- > Verify all parts are installed correctly.
- > Verify that there are no abnormalities that would adversely affect the flight of the helicopter.
- > Verify all batteries on board the helicopter and transmitter are to a sufficient level of charge.
- > Exchange or repair damaged or worn parts using only parts shown in this instruction manual, or via the Outrage catalog.
- > Verify there is no introduction or exposure to water or moisture in any form.

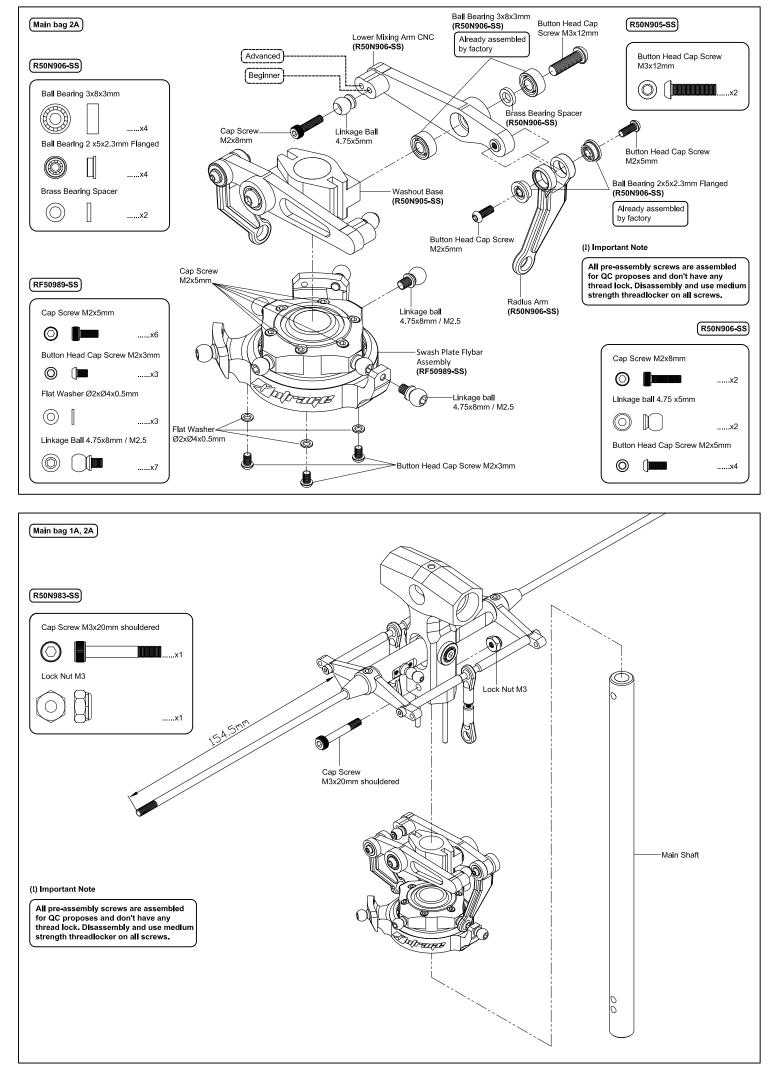
During operation of the helicopter

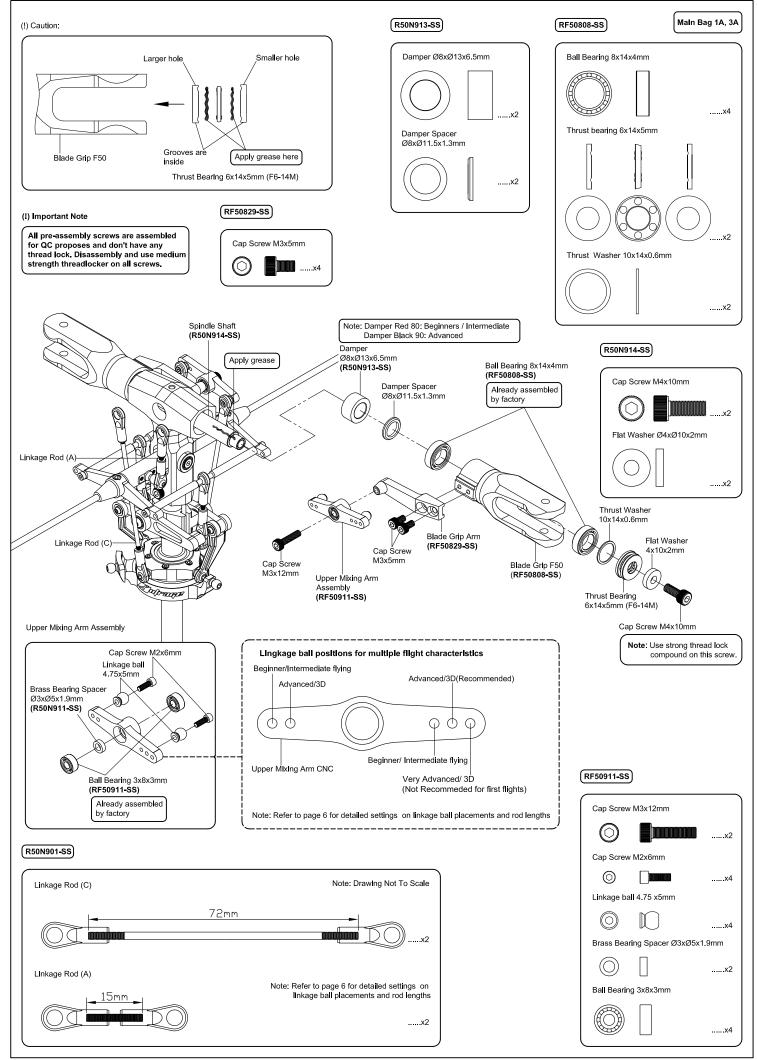
- > Always be aware of your surroundings.
- > Maintain safe distances from aircraft and rotating main/tail rotor blades.
- ► Be conscious of your actions.
- > Wear appropriate clothing that does not interfere with transmitter or helicopter.
- > Never leave your model unattended.
- > Maintain eye contact during all aspects of flight.

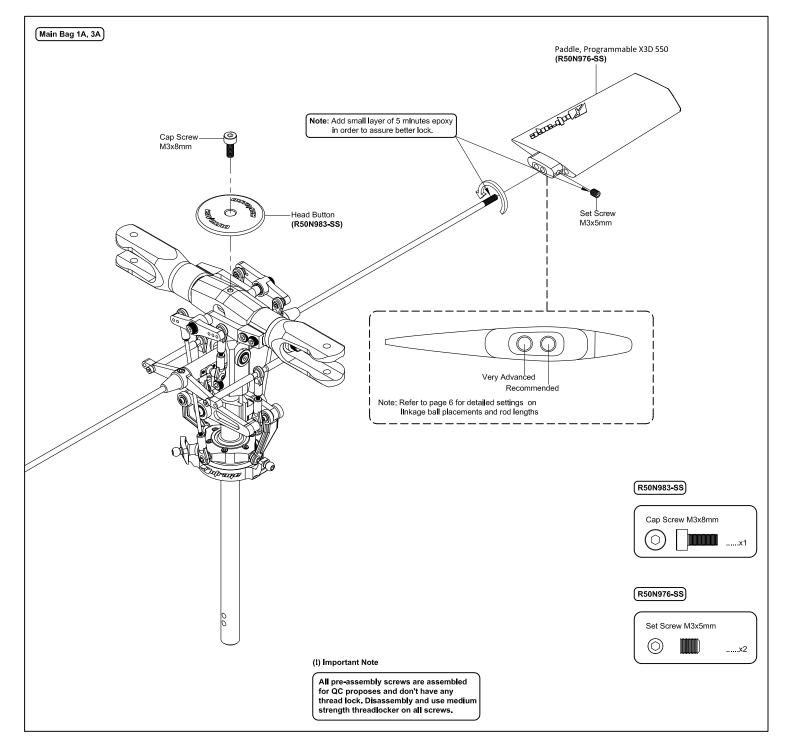
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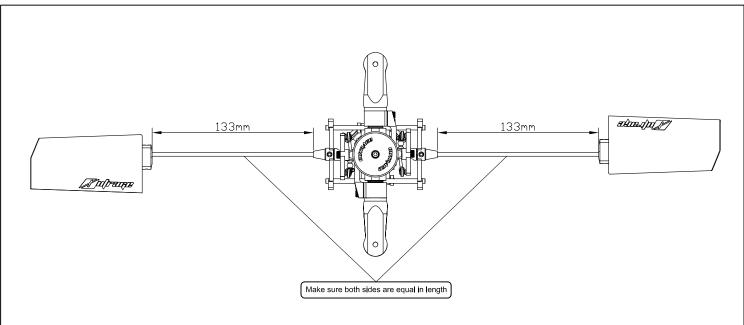


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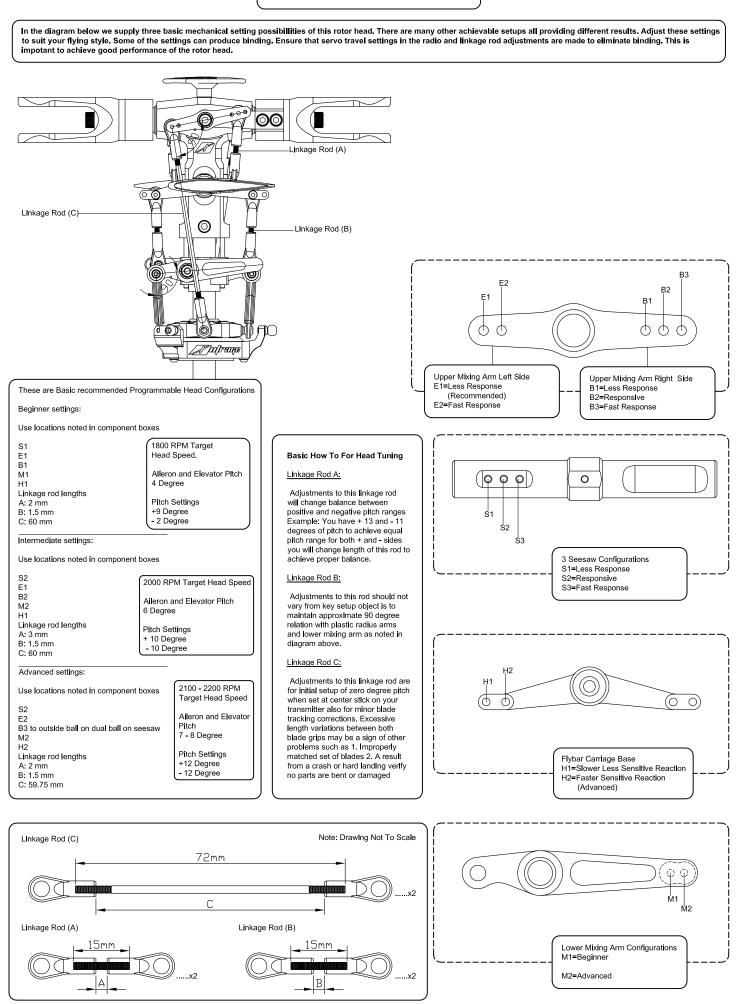


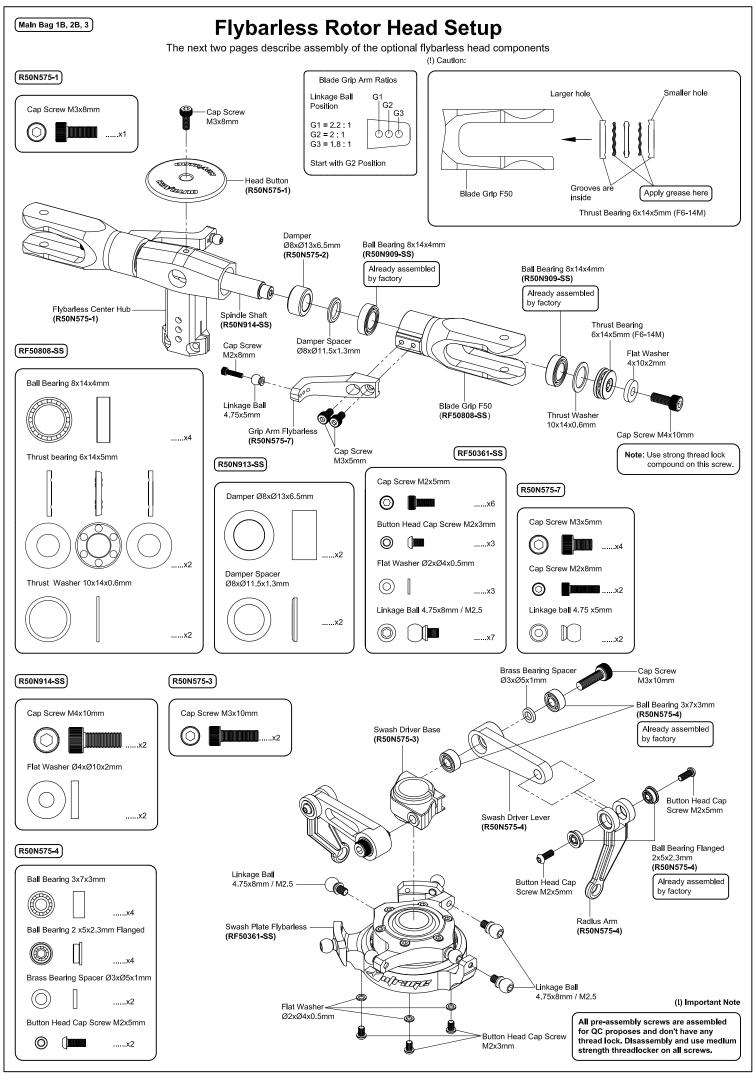




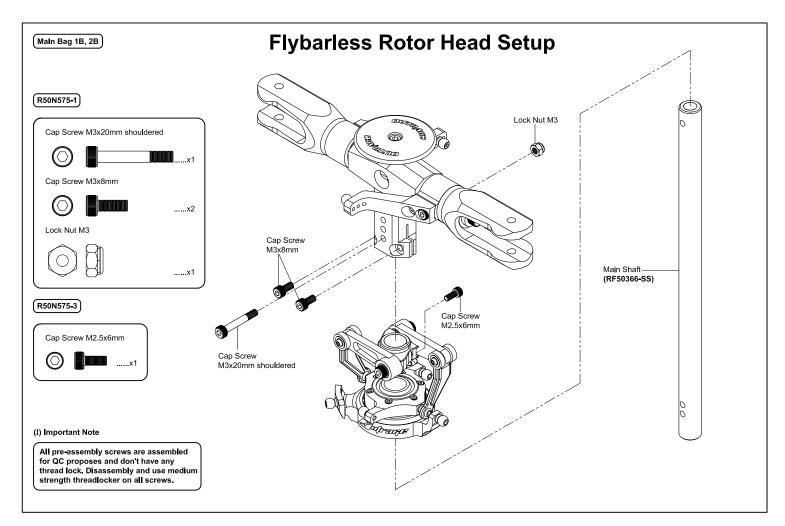


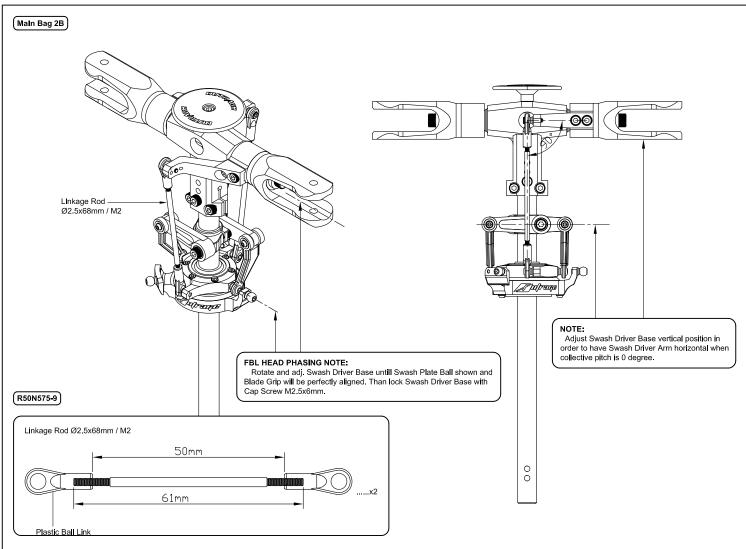
Basic setup configurations for beginner, intermediate, and advanced flying skills

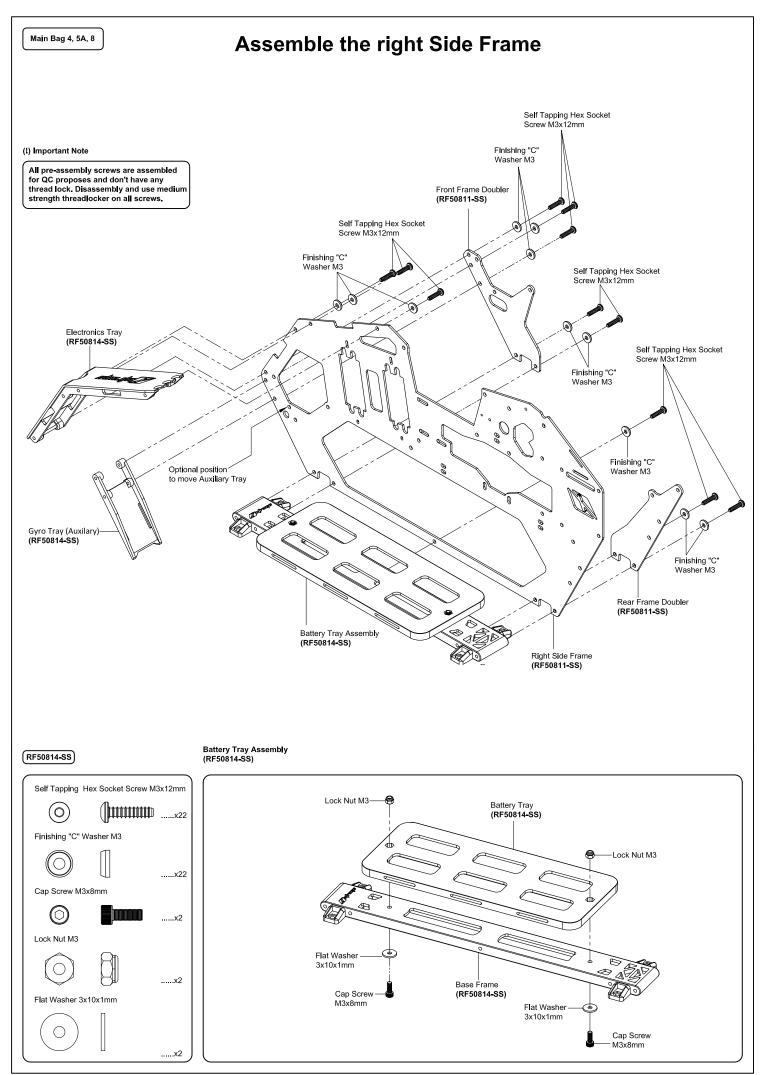




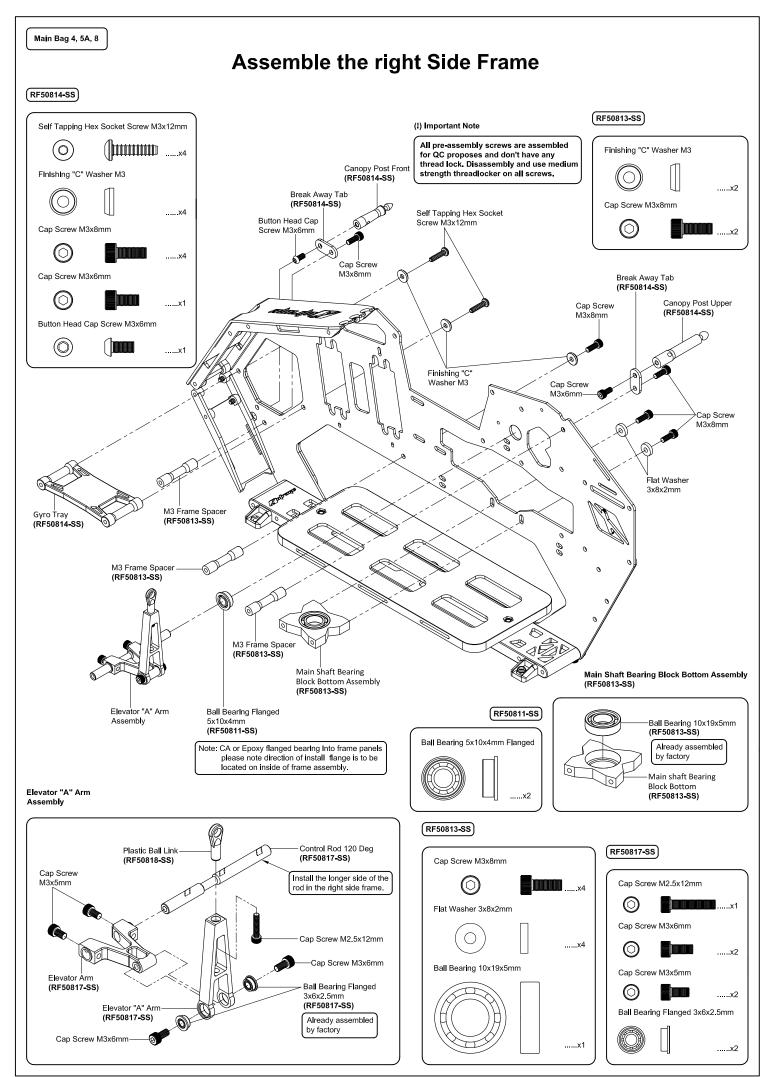
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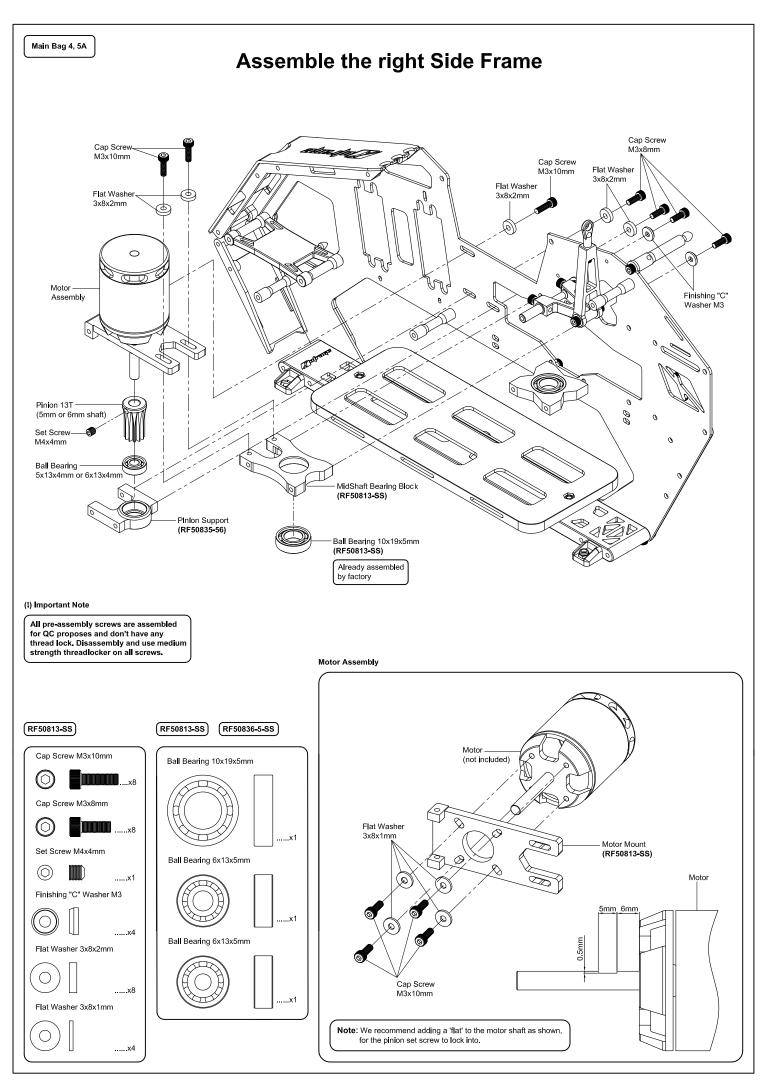




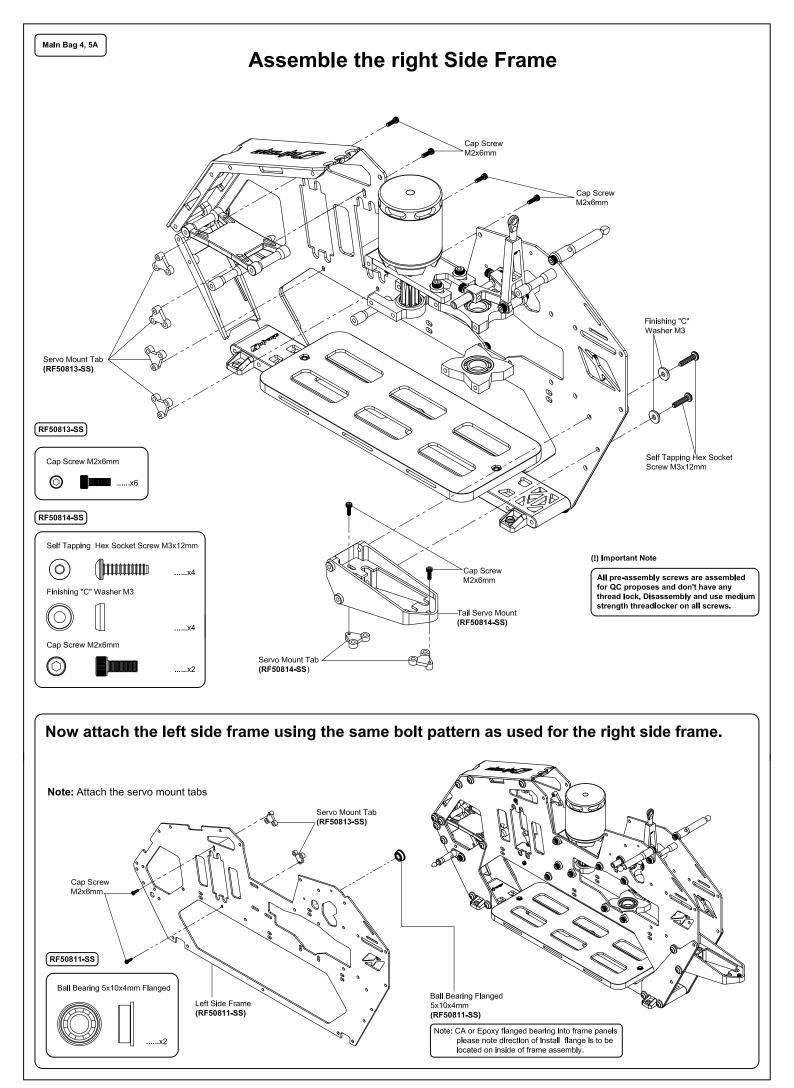


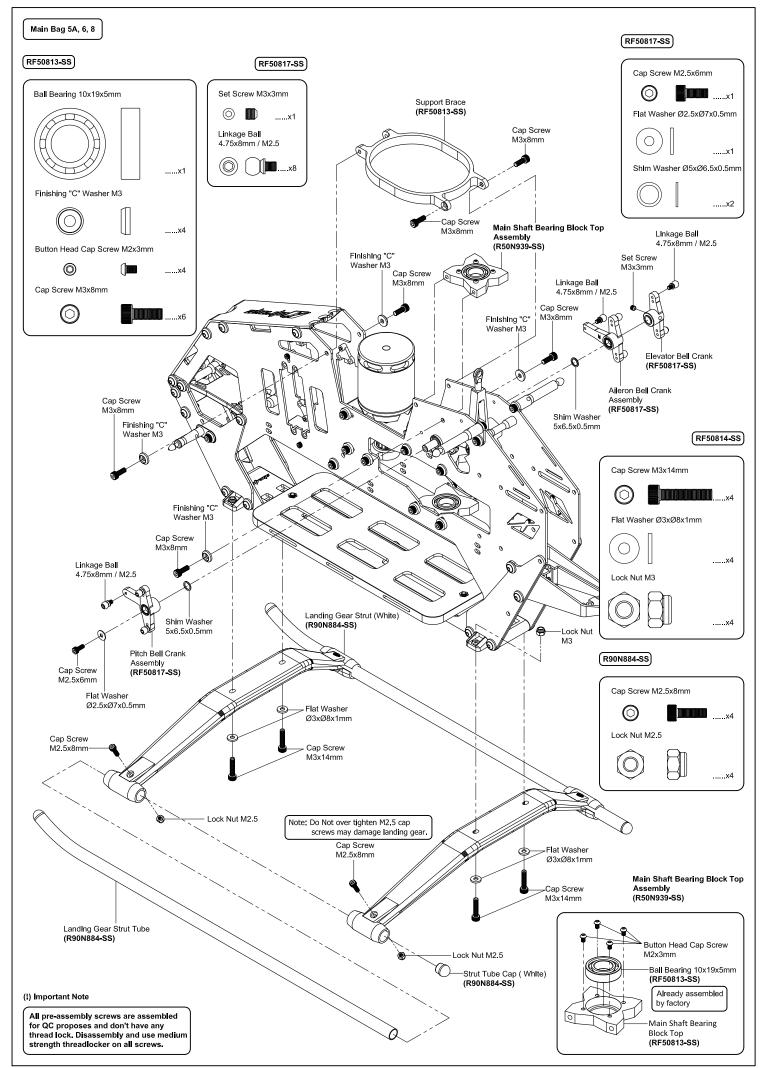
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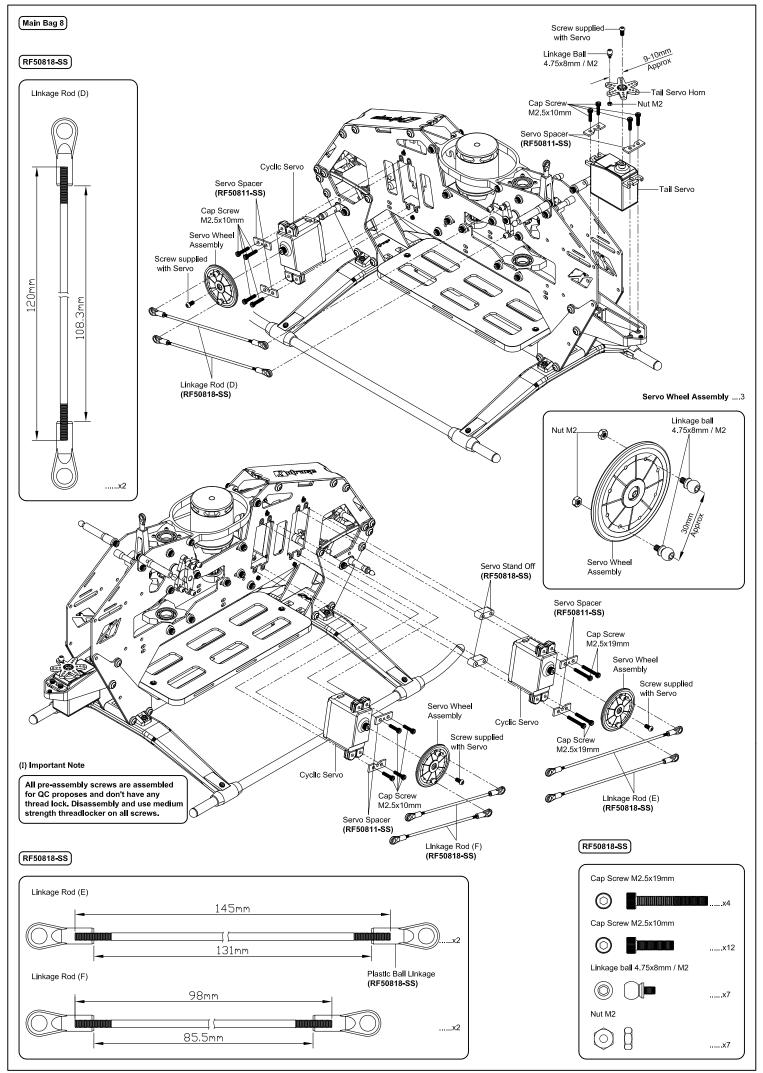


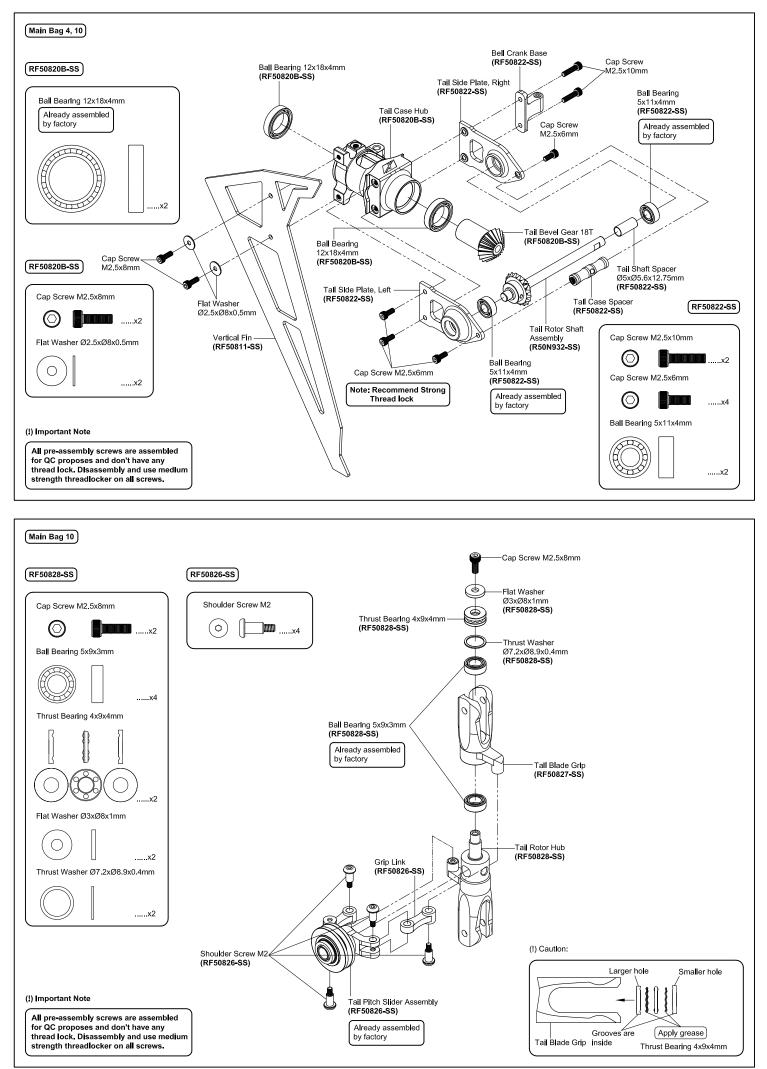
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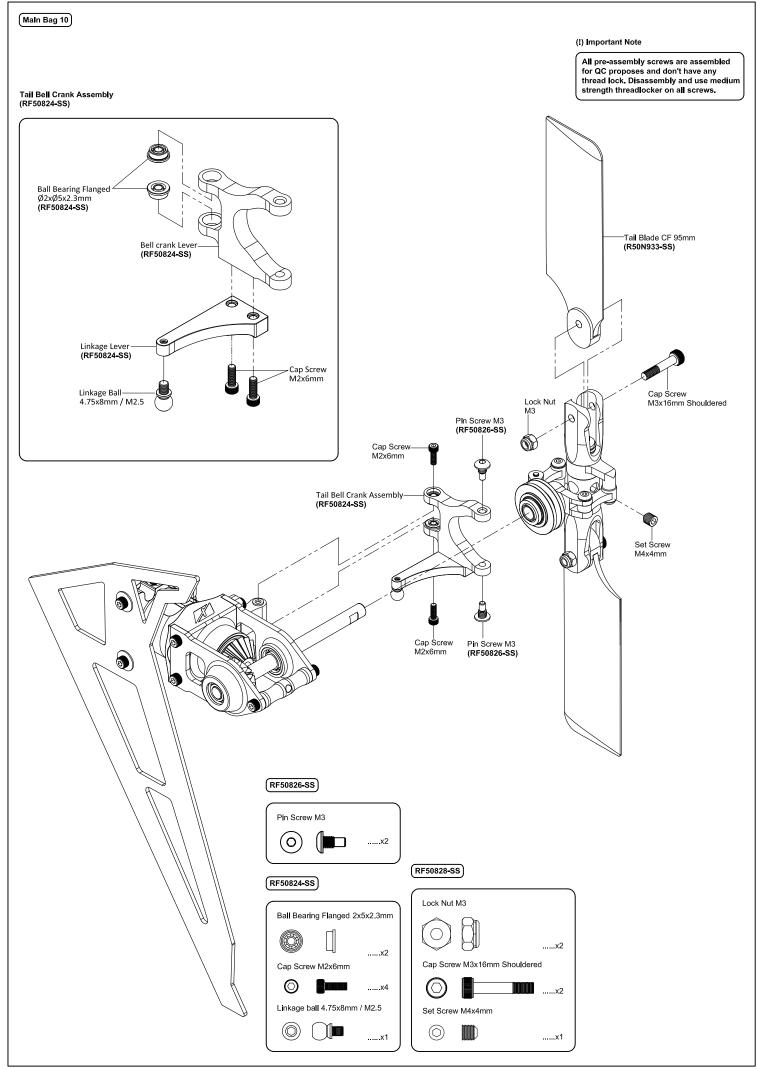


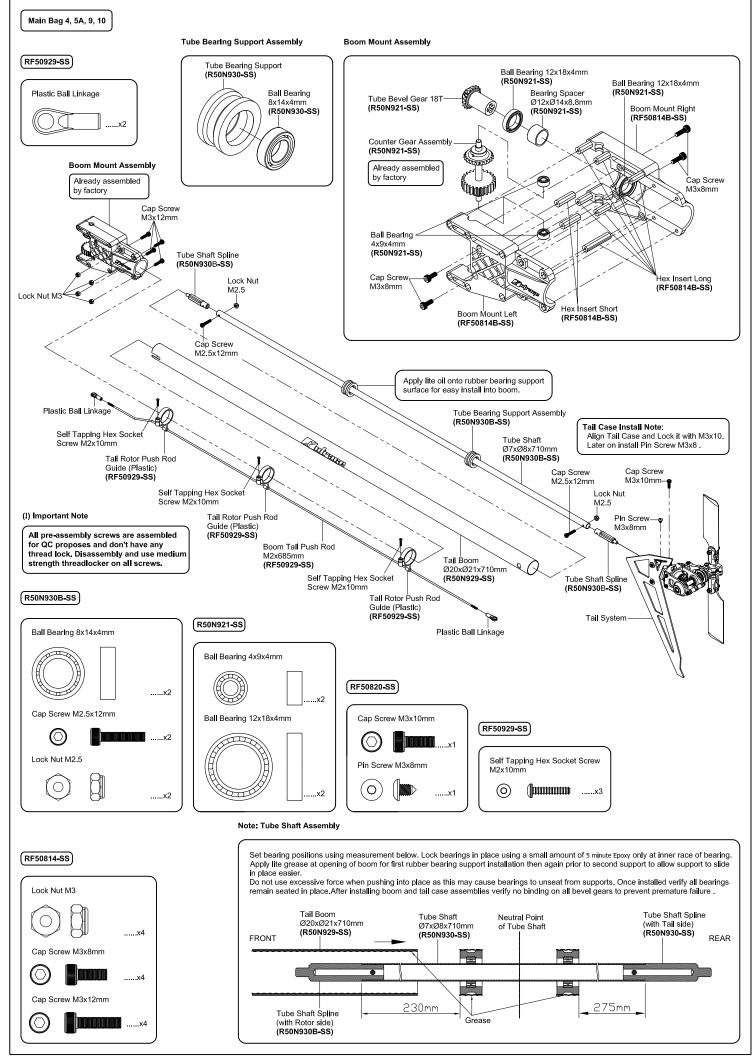
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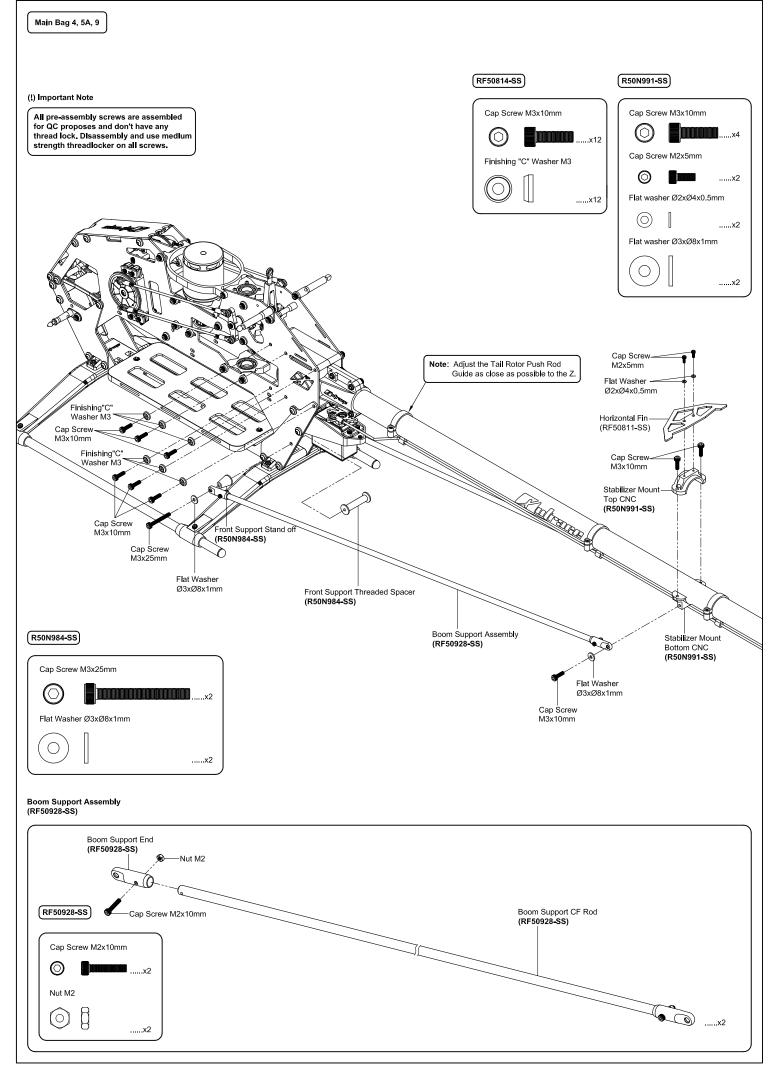


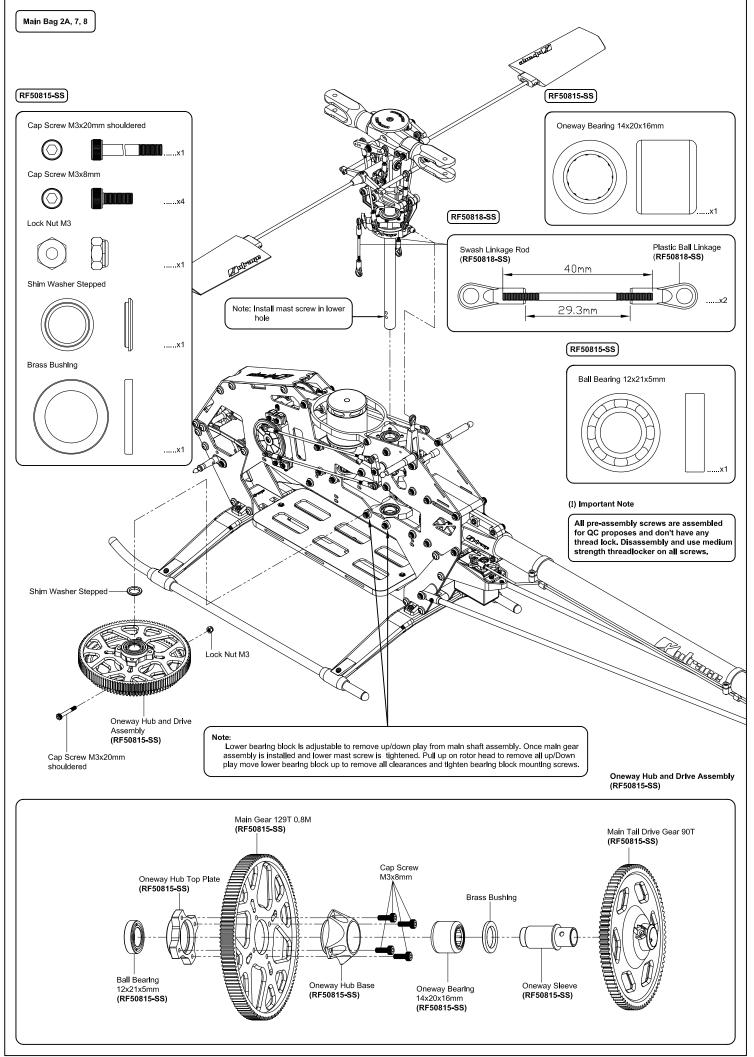


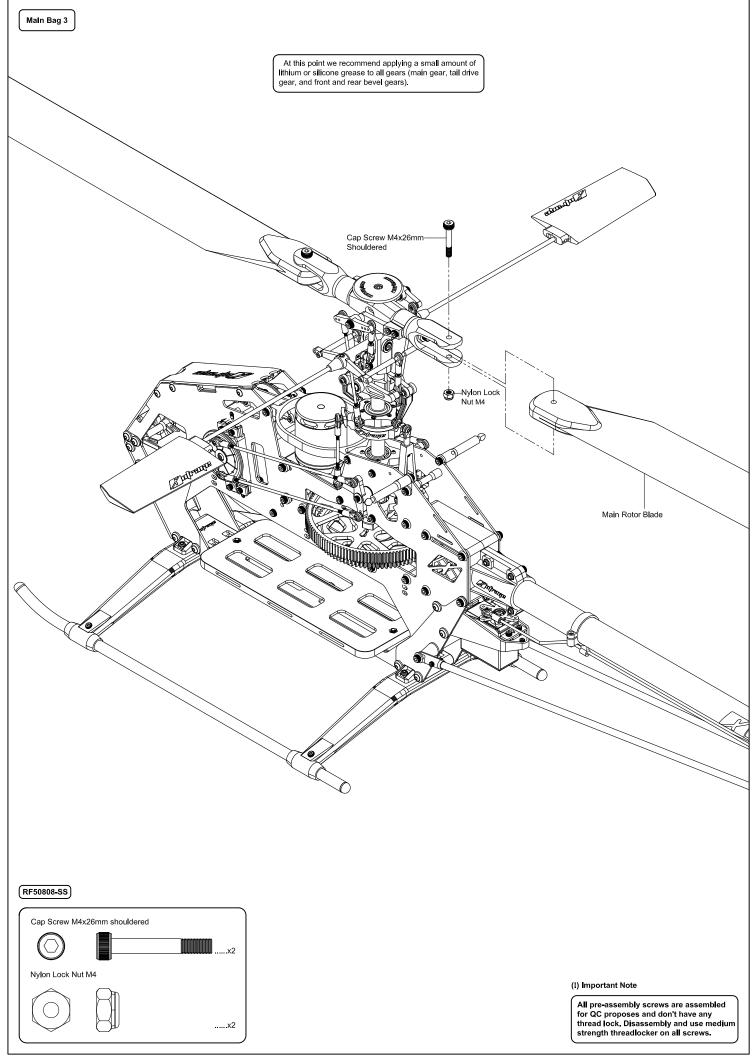
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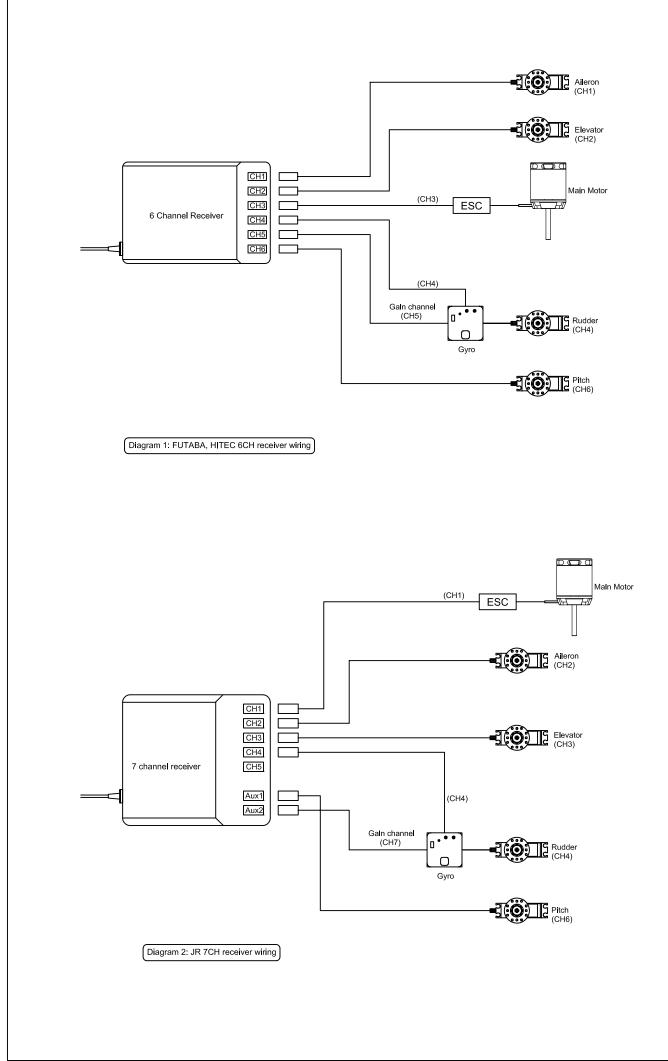


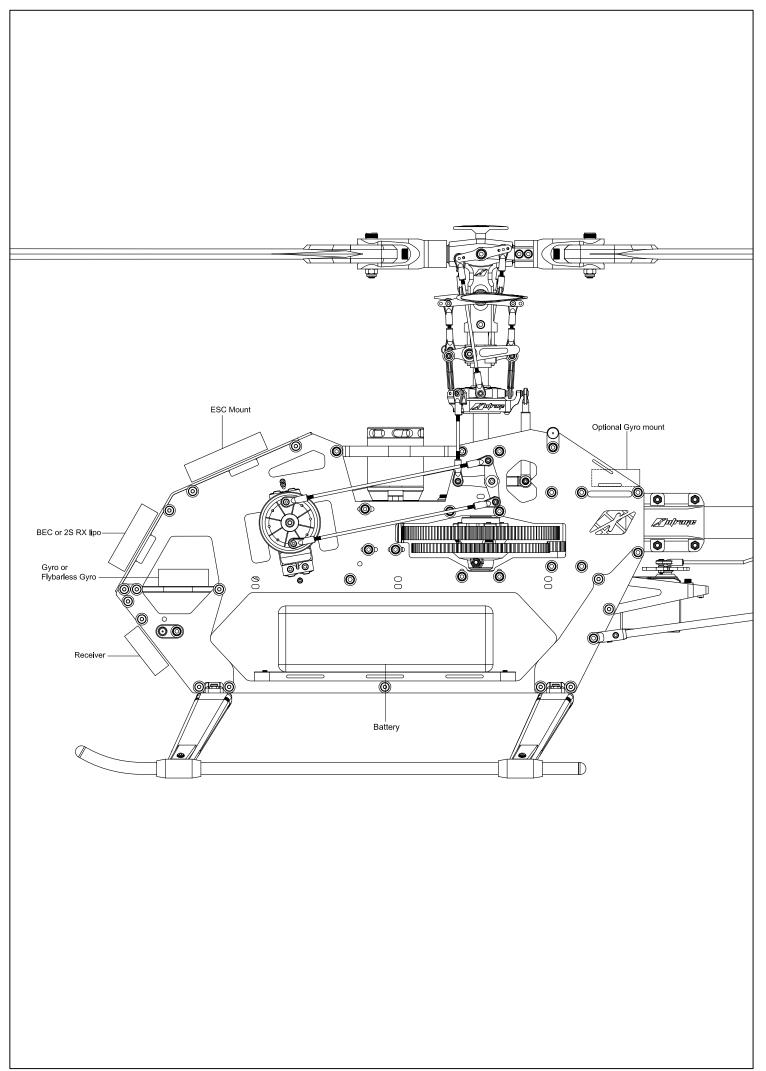


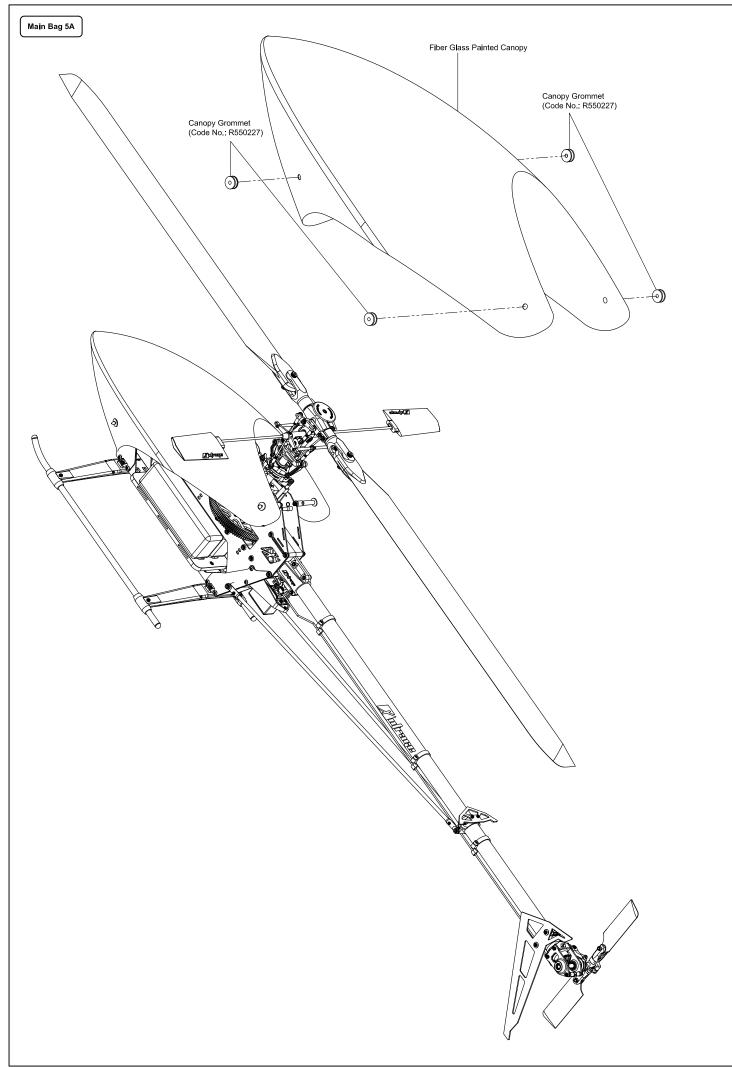




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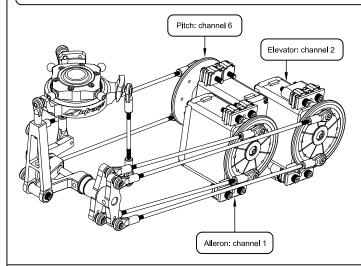


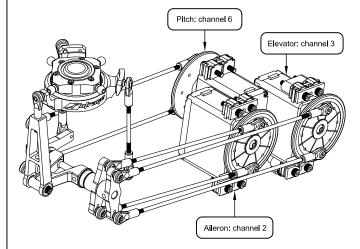




Servo setting and adjustment

To perform servo setup and adjustment, turn on your transmitter and then power up the receiver





Adjustment for gyro and tail neutral setting

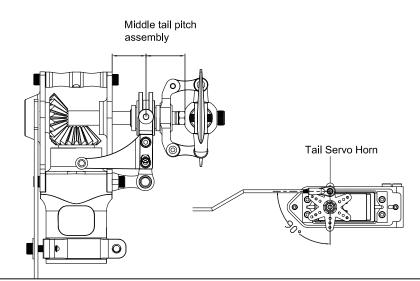
Note: We recommend using a heading hold gyro for best performance

Tail Neutral Setting

In your transmitter disable revolution mixing. Activate gyro mode in radio, set the gyro gain to a starting point of 65-75% this is a basic setting, results may vary depending on brand of equipment used reference manufacturers recommended settings.

When connecting power to helicopter reduce all movement to model, do not move transmitter rudder stick, and allow 3-5 seconds for gyro to initialize. Upon gyro initialization the servo horn should position itself to 90 degrees to servo center line. See diagram below.

Set tail blade pitch similar to diagram below by adjusting linkage rod length.



Futaba/Hitec transmitter servo position

Set transmitter to 120 (standard) or 140(Optional, Upgrade) Degree CCPM mode, ensure all sub trims set to zero.

Set all servo travel values to 100. In the swash menu set values for pitch, Alieron, and Elevator to 50 initially (these values are only basic your final setup may vary). Move the throttle stick up and down all 3 servos must move together in the correct direction. If not use servo reverse or swash menu setting for proper operation. Move the Aileron / Elevator stick up / down, left / right if swash does not move in the correct direction reverse settings in the swash menu by dialing + or - values.

(Note: Channels 6 and 1 servos are interchangeable).

Level the swash plate using a leveling tool, and then add or subtract sub trim while the throttle stick is at center position. Move throttle stick to top use travel adjustment values to level swash. Move throttle stick down repeat travel adjustments.

JR/Spektrum transmitter servo position

Set transmitter to 120 (standard) or 140(Optional, Upgrade) Degree CCPM mode, ensure all sub trims set to zero.

Set all servo travel values to 100. In the swash menu set values for pitch, Alieron, and Elevator to 50 initially (these values are only basic your final setup may vary). Move the throttle stick up and down all 3 servos must move together in the correct direction. If not use servo reverse or swash menu setting for proper operation. Move the Aileron / Elevator stick up / down, left / right if swash does not move in the correct direction reverse settings in the swash menu by dialing + or - values.

(Note: Channels 6 and 2 servos are interchangeable).

Level the swash plate using a leveling tool, and then add or subtract sub trim while the throttle stick is at center position. Move throttle stick to top use travel adjustment values to level swash. Move throttle stick down repeat travel adjustments.

Next set the direction of the transmitter rudder function when you move the rudder stick to the left, the ball on the tail rotor servo horn should travel toward the rear of the helicopter. Use the transmitter reversing function to correct this,

Now check the gyro responds to helicopter movement in the correct manner.

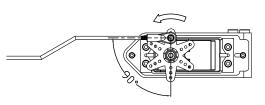
To check correct gyro setting turn the nose of helicopter right, the linkage ball on tail rotor servo horn should travel towards the rear of the helicopter.

If it does not, change direction switch (normal or reverse) on gyro (not in the transmitter).



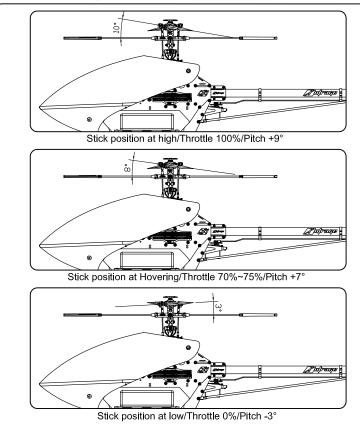
To test the gyro direction, move the nose of the helicopter right.

Trim direction for tail servo horn.

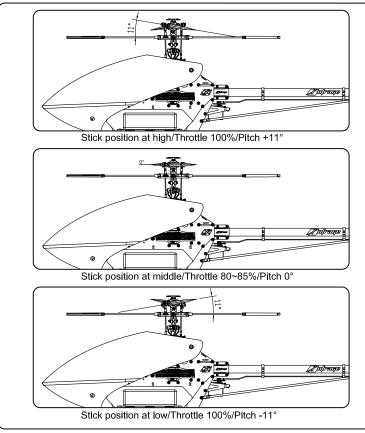


PITCH AND THROTTLE SETTING

General Flight



3D Flight



NOTE!

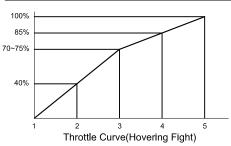
Recommended Head speed for 3D flight 2150 RPM

! Caution: For safety of flight and helicopter structure. Main rotor speed should not Exceed 2250 RPM or maximum RPM set by rotor blade manufacturer.

GENERAL FLIGHT

	Throttle	Pitch
5	100%High Speed	+10°
4	85%	
3	70~75%Hovering	+8°
2	40%	
1	0% Low Speed	-3°

Note: Recommend head speed for general flight for beginner / intermediate.



Pitch curve setting

1. Refer to you radio transmitter's instruction manual for specific curve setting descriptions.

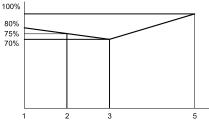
2. Adjust your radio's pitch curve percentages so the following suggested pitch curve degrees are measured on your helicopter at low, mid and high points using a pitch gauge.

Note: Flight results may vary depending on engine, servos, battery, etc..

This data is to be used as a general guideline only. Throttle Curve Setting

Throttle curve may vary due to motor, pinion, ESC, Battery, weather, etc... graphs and data provided in this manual are basic starting points only and may require fine tuning after first flight has been made.

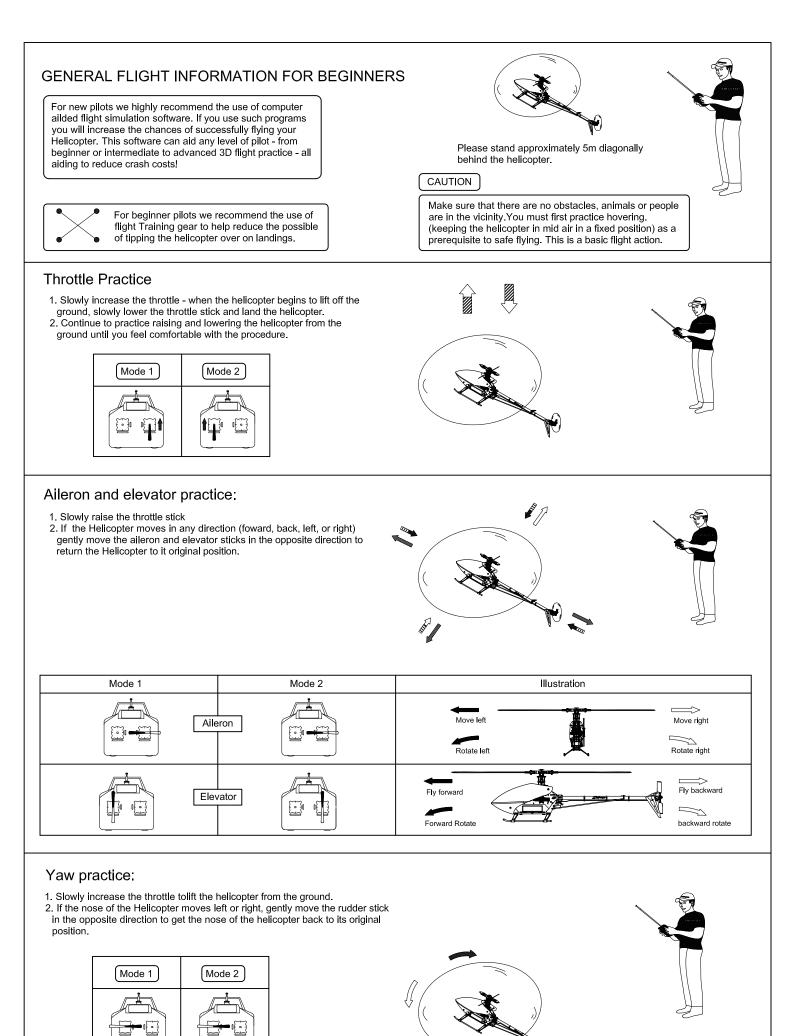
IDLE 1: SPORT FLIGHT							
	Throttle Pitch						
5	100%	+11 °					
4	75%						
3	70%	+5°~ +6°					
2	75%						
1	80%	-6°~ -5°					



² ³ ⁵ Throttle Curve(Simple Aerobatic Fight)

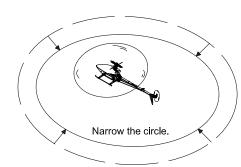
IDLE 2: 3D FLIGHT Throttle Pitch +11° 5 100% H**i**ah 0° 3 85%~90% Middle 100% Low -11° 1 100% 85~90% 3 5 Throttle Curve(3D Fight)

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Practice an Accurate Hover :

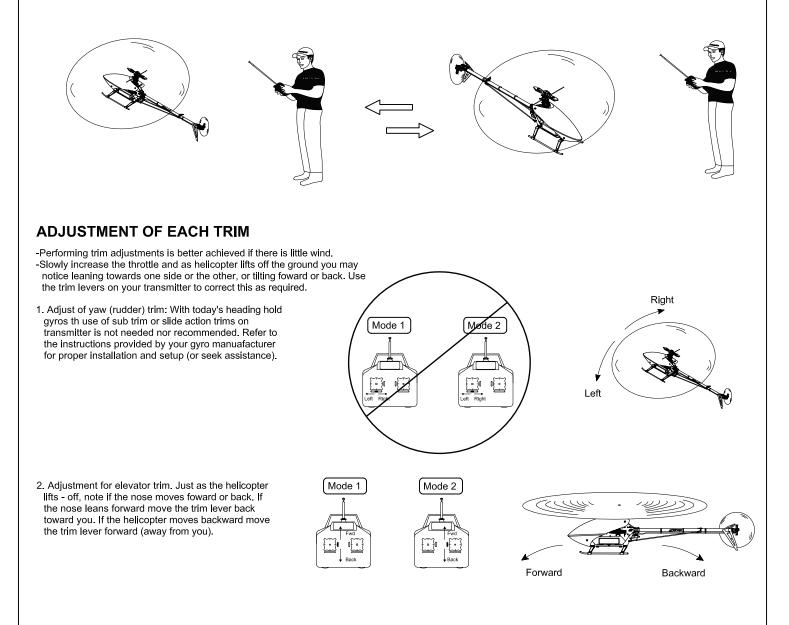
After you feel comfortable with the above procedures, you can draw a circle on ground and practice flying the helicopter within that circle to increase your flying skills and accuracy. As your skill increases you can narrow the circle.

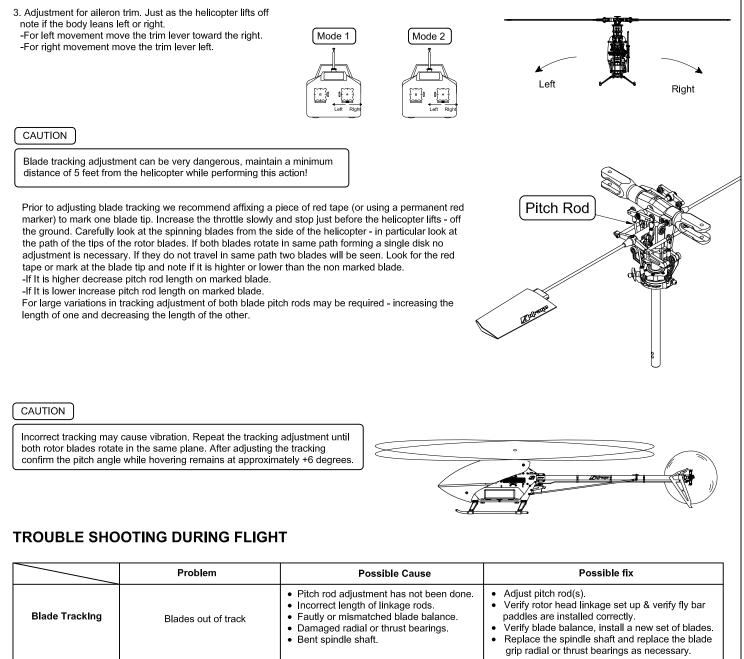




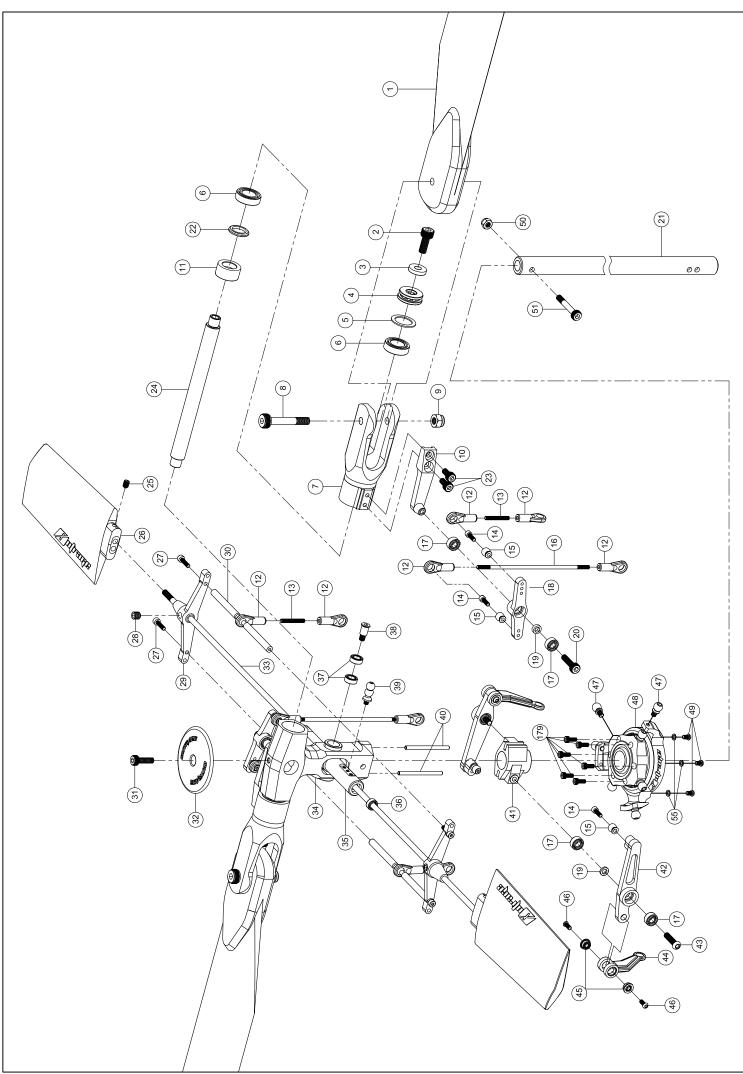
Changing Helicopter Orientation During Hover:

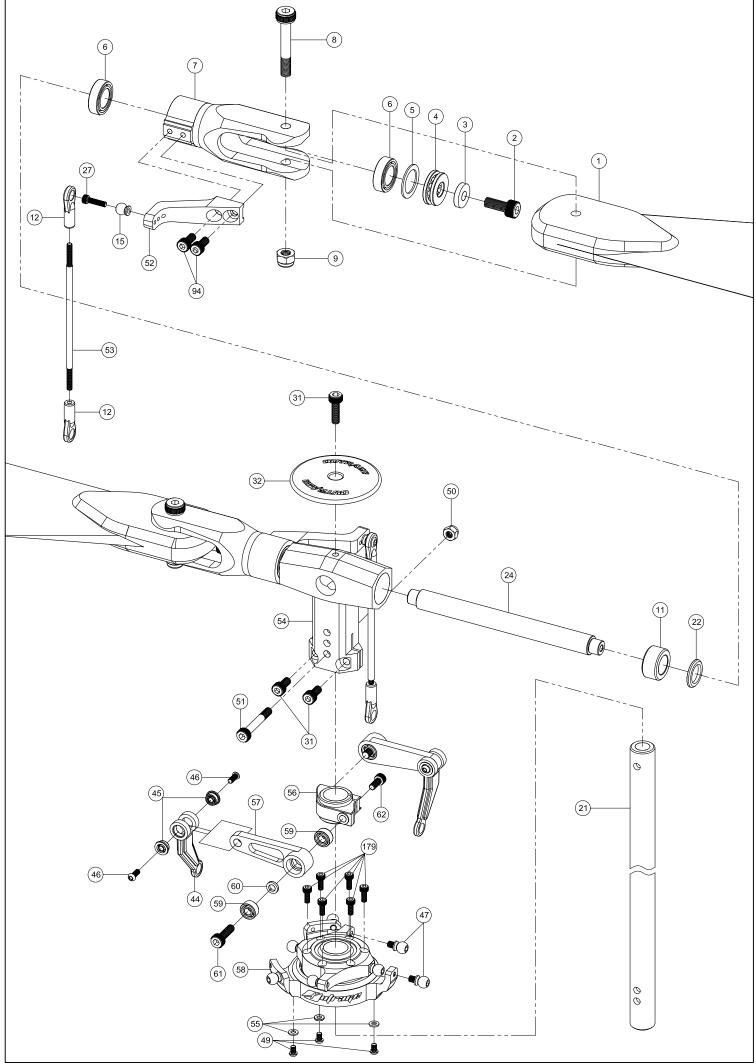
After you feel comfortable with the above practice procedures, stand and face the helicopters left side hover in this position until comfortable. Next use rudder and turn helicopter so you are looking at its right side. After you are comfortable in these orientations slowly transition to a nose in hover. Achieve this by incrementally progressing to the point that the nose is pointing directly at you. Think of this as digits on a clock - You should be able to already fly comfortable with nose facing 12:00, 3:00, and 9:00 slowly turn nose of helicopter to 8:00, 7:00, 6:00. and also rotate from opposite 4:00, 5:00, 6:00. Practice this until you are comfortable and you are able to rotate helicopter 360 degrees in both directions either left or right.

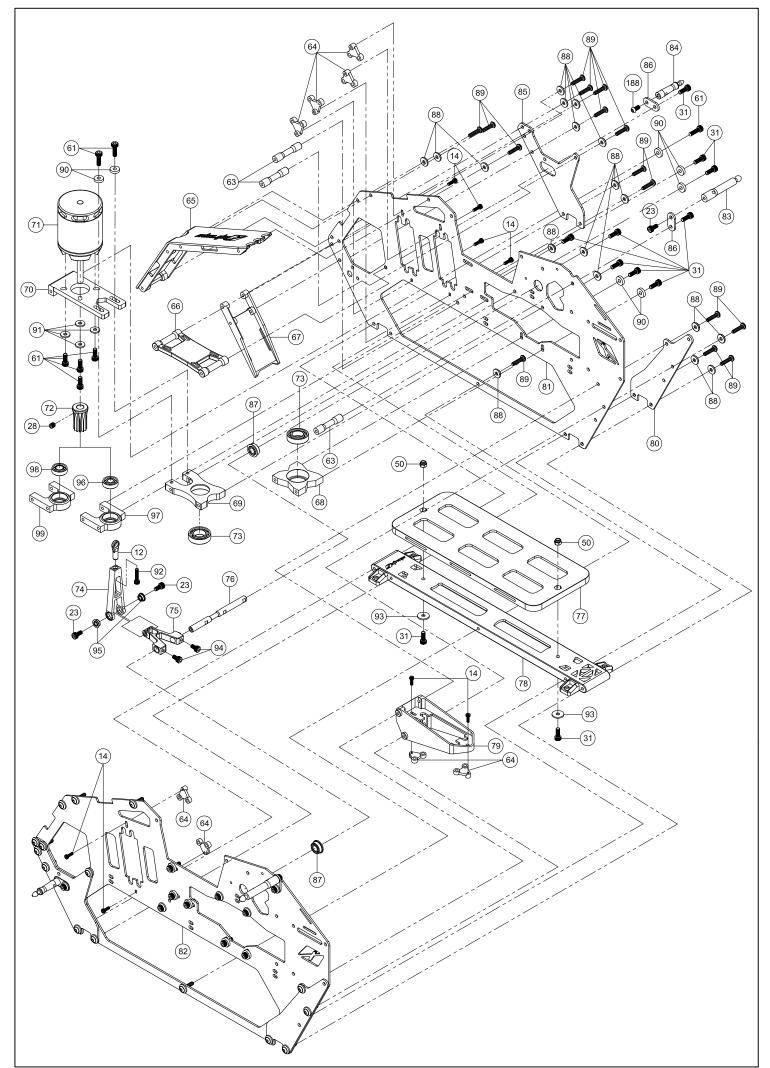


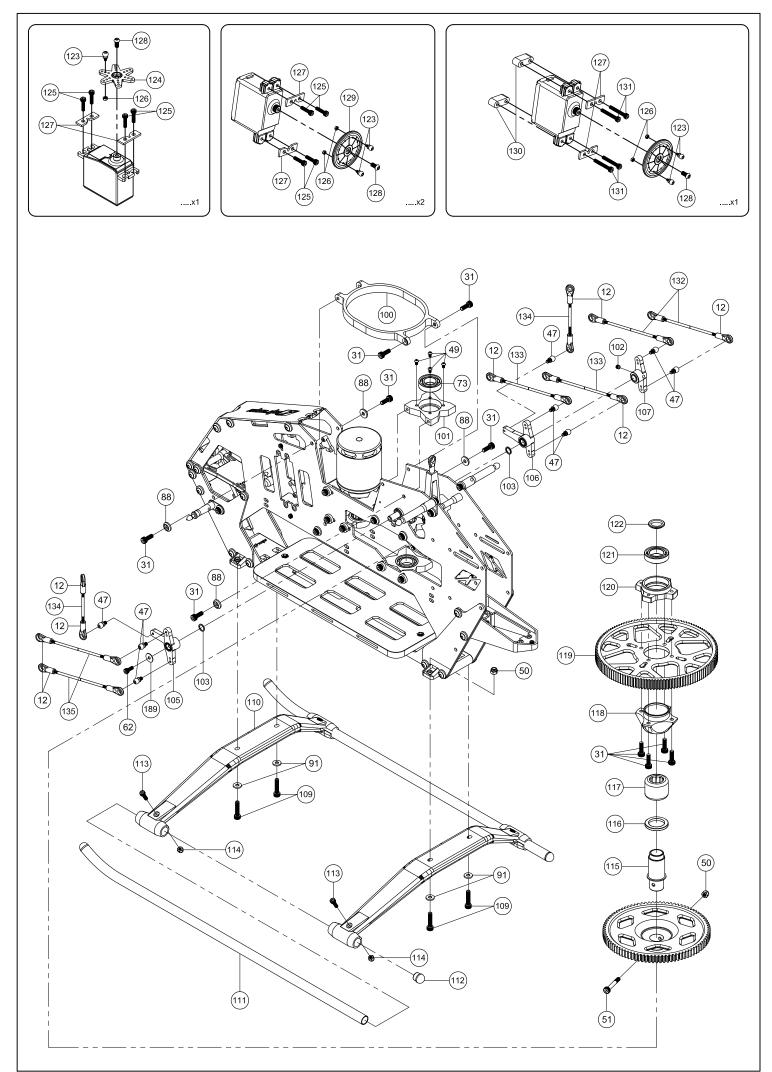


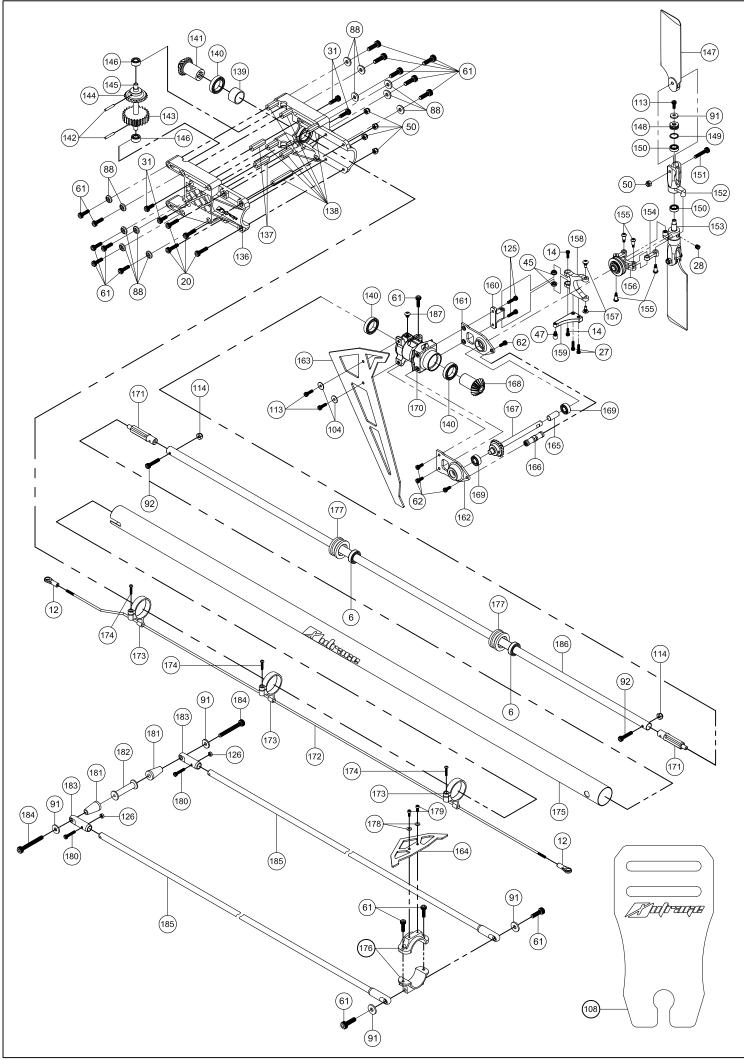
	Problem	Possible Cause	Possible fix
Blade Tracking	Blades out of track	 Pitch rod adjustment has not been done. Incorrect length of linkage rods. Fautly or mismatched blade balance. Damaged radial or thrust bearings. Bent spindle shaft. 	 Adjust pitch rod(s). Verify rotor head linkage set up & verify fly bar paddles are installed correctly. Verify blade balance, install a new set of blades. Replace the spindle shaft and replace the blade grip radial or thrust bearings as necessary.
During Hovering	Low rotation speed of the main rotor	 Main blade pitch is too high. Throttle curve is too low during hovering. 	 Lower the pitch 5-6° during hovering (the rotor rpm should be about 2000 - 2,200rpm during hovering). Increase the throttle curve at the hovering position.
During Hovering	High rotation speed of the main rotor	 The pitch of main blades is too low. The throttle curve is too high during hovering. 	 Adjust the pitch rod(the rotor rpm should be about 2000 - 2,200rpm during hovering). Lower the throttle curve at the hovering position.
Tail rotor Stability	During hover the tail moves or drifts one way.	 Failure to set the tail neutral point. The sensitivity of the gyro is low. Improper gyro installation 	 Reset the tail neutral point. Increase the gyro sensitivity. Use approved gyro mounting tape and verify gyro instructions as recommended by the gyro manufacturer.
	The tail wags left and right during flight at hovering or full speed.	The sensitivity of the gyro is too high.	Decrease the sensitivity.











No.	Code No.	Name	Specification	Quantity	Remarks
1		Main Rotor Blade		4	
2	R550710	Cap Screw	M4 x 10mm	4	
3	R550711	Flat Washer	Ø4 x Ø10 x 2mm	4	
4	R50N402	Thrust Bearing (F6-14M)	Ø6 x Ø14 x 5mm	4	
5	R50N450	Thrust Washer	Ø10 x Ø14 x 0.6mm	4	
6	R50N401	Ball Bearing (MR148ZZ)	Ø8 x Ø14 x 4mm	12	
7	RF50010	Blade Grip		4	
8	R550714	Cap Screw Shouldered	M4 x 26mm	4	
9	R550715	Lock Nut	M4	4	
10	RF50011	Blade Grip Arm		2	
	R550225	Damper Red 80	Ø8 x Ø13 x 6.5mm	4	
11	R50N007	Damper Black 90	Ø8 x Ø13 x 6.5mm	4	
12	R550205	Plastic Ball Link		35	
13	R550411	Linkage Rod	M2 x 15mm	4	
14	R550732	Cap Screw	M2 x 6mm	18	
15	R550160	Linkage Ball	4.75 x 5mm	10	
16	R550410	Linkage Rod	M2 x 72mm	2	
17	RG50335	Ball Bearing	Ø3 x Ø8 x 3mm	8	
18	R550102	Upper Mixing Arm CNC		2	
19	R550152	Brass Bearing Spacer	Ø3 x Ø5 x 1.9mm	4	
20	R550728	Cap Screw	M3 x 12mm	6	
21	R550172	Main Shaft		2	
22	R50N450	Thrust Washer	Ø10 x Ø16 x 0.6mm	4	
23	R550724	Cap Screw	M3 x 6mm	4	
24	R50N008	Spindle Shaft		2	
25	R550727	Set Screw	M3 x 5mm	2	
26	R550209	Paddle, Programmable X3D 550		2	
27	R550717	Cap Screw	M2 x 8mm	8	
28	R550718	Set Screw	M4 x 4mm	4	
29	R550104	Flybar Carriage Base		2	
30	R550178	Flybar Control Rod		2	
31	R550722	Cap Screw	M3 x 8mm	38	
32	R550141	Head Button		2	
33	R50N003	Flybar Rod	M3 x 400 mm	1	
34	R50N002	Center Hub		1	
35	R550103	Seesaw		1	
36	R550610	Ball Bearing	Ø3 x Ø6 x 2.5mm	2	
37	R550609	Ball Bearing	Ø4 x Ø7 x 2.5mm	4	
38	R50N460	Shouldered Cap Screw	М3	2	
39	R550180	Double Linkage Ball	4.75 x 11mm	2	
40	R550183	Phasing Pin		2	
41	R50N005	Washout Base		1	

No.	Code No.	Name	SpecIfIcation	Quantity	Remarks
42	R550108	Lower Mixing Arm CNC		2	
43	BSM3x12	Button Head Cap Screw	M3 x 12mm	2	
44	R550211	Radius Arm		4	
45	R550618	Ball Bearing Flanged	Ø2 x Ø5 x 2.3mm	10	
46	R550745	Button Head Cap Screw	M2 x 5mm	8	
47	R50N160	Linkage Ball	4.75*8mm / M2.5	23	
48	R50N512	Swash Plate Standard		1	
49	R550731	Button Head Cap Screw	M2 x 3mm	10	
50	R550729	Lock Nut	M3	15	
51	R550713	Cap Screw Shouldered	M3 x 20mm	2	
52	R50N013	Grip Arm Flybarless		2	
53	R50N014	Linkage Rod	M2 x 61 x 2.50D mm	2	
54	R50N010	Flybarless Center Hub		1	
55	R550707	Flat Washer	Ø2 x Ø4 x 0.5mm	6	
56	R50N011	Swash Driver Base		1	
57	R50N012	Swash Driver Lever		2	
58	R50N511	Swash Plate Flybarless		1	
59	R550611	Ball Bearing		4	
60	R550161	Brass Bearing Spacer	Ø3 x Ø5 x 1mm	2	
61	R550738	Cap Screw	M3 x 10mm	27	
62	R550743	Cap Screw	M2.5 x 6mm	5	
63	R550122	Frame Spacer	M3	3	
64	R90N259	Servo Mount Tab CNC		8	
65	RF50313	Electronics Tray		1	
66	RF50314	Gyro Tray		1	
67	R550213	Gyro Tray (Auxilary)		1	
68	R550121	Main shaft Bearing Block Bottom		1	
69	R550120	MidShaft Bearing Block		1	
70	RF50321	Motor Mount		1	
71		Motor		1	
		Pinion (5mm motor shaft)	12T / 14T / 16T	1	
72		Pinion (6mm motor shaft)	12T / 14T / 16T	1	
73	R550602	Ball Bearing	Ø10 x Ø19 x 5mm	3	
74	RF50325	Elevator "A" Arm		1	
75	RF50326	Elevator Arm		1	
76	RF50303	Control Rod 120 Deg.		2	
77	RF50316	Battery Tray		1	
78	RF50315	Base Frame		1	
79	RF50317	Tail Servo Mount		1	
80	RF50504	Rear Frame Doubler		2	
81	RF50502	Right Side Frame		1	
82	RF50501	Left Side Frame		1	
83	R50N253	Canopy Post Upper		2	
Converight@20	I 10 Outrage RC. All rights		I	1	

No.	Code No.	Name	Specification	Quantity	Remarks
84	RF50311	Canopy Post Front		2	
85	RF50503	Front Frame Doubler		2	
86	R550066	Break Away Tab		4	
87	R90N407	Ball Bearing Flanged	Ø5 x Ø10 x 4mm	2	
88	R550721	Finishing "C" Washers	МЗ	58	
89	R550725	Self Tapping Socket Screw	M3 x 12mm	30	
90	W3x8x2	Flat Washer	Ø3 x Ø8 x 2mm	12	
91	R550723	Flat Washer	Ø3 x Ø8 x 1mm	14	
92	SM2.5x12	Cap Screw	M2.5 x 12mm	3	
93	W3x10x1	Flat Washer	Ø3 x Ø10 x 1mm	2	
94	RG50330	Cap Screw	M3 x 5mm	10	
95	R550615	Ball Bearing Flanged	Ø3 x Ø6 x 2.5mm	2	
96	R50N404	Ball Bearing	Ø5 x Ø13 x 4mm	1	
97	RF50108	Pinion Support		1	
98		Ball Bearing (Option)	Ø6 x Ø13 x 5mm	1	
99	RF50836-6-SS	Pinion Support (Option)		1	
100	RF50322	Support Brace		1	
101	R550113	Main shaft Bearing Block Top		1	
102	R550730	Set Screw	M3 x 3mm	1	
103	RF50319	Shim Washer	Ø5 x Ø6.5 x 0.5mm	2	
104	R550227	Flat Washer	Ø2.5 x Ø8 x 0.5mm	2	
105	RF50324	Pitch Bell Crank Assembly		1	
106	RF50328	Aileron Bell Crank Assembly		1	
107	RF50323	Elevator Bell Crank		1	
108	R550229	Foam Blade Holder		1	
109	R550223	Cap Screw	M3 x 14mm	4	
110	R90N250	Landing Gear Strut White		2	
111	R50N267	Landing Gear Strut Tube		2	
112	R90N251	Strut tube cap (White)		4	
113	R550712	Cap Screw	M2.5 x 8mm	8	
114	R90N479	Lock Nut	M2.5	6	
115	RF50103	Oneway Sleeve		1	
116	RF50106	Brass Bushing		1	
117	R50N409	Oneway Bearing	Ø14 x Ø20 x 16mm	1	
118	RF50104	Oneway Hub Base		1	
119	R50N111	Main Gear (Injection)	129T .8 Mod	1	
120	RF50101	Oneway Hub Top Plate		1	
121	RF50107	Ball Bearing	Ø12 x Ø21 x 5mm	1	
122	RF50105	Shim Washer Stepped		1	
123	RF50336	Linkage Ball	4.75 x 5mm / M2	7	
124		Servo Horn		1	
125	R550747	Cap Screw	M2.5 x 10mm	14	

No.	Code No.	Name	Specification	Quantity	Remarks
126	R550717	Nut	M2	11	
127	R550005	Servo Spacer		8	
128		Screw supplied with Servo		4	
129		Servo Wheel		3	
130	RF50318	Servo Stand Off		2	
131	RG50326	Cap Screw	M2.5 x 19mm	4	
132	RF50329	Linkage Rod	M2 x 145mm	2	
133	R50N201	Linkage Rod	M2 x 98mm	2	
134	R550404	Linkage Rod	M2 x 40mm	2	
135	R50N202	Linkage Rod	M2 x 120mm	2	
136	R50N301B	Boom Mount		1	
137	R50N258	Hex insert Short		2	
138	R50N255B	Hex Insert Long		6	
139	R50N262	Bearing Spacer	Ø12 x Ø14 x 8.8mm	1	
140	R50N406	Ball Bearing	Ø12 x Ø18 x 4mm	4	
141	R50N304	Tube Bevel Gear (C)	18T	1	
142	R550734	Roll Pin	Ø2 x 12mm	3	
143	R50N302	Tail Drive Counter Gear	24T	1	
144	R50N303	Tail Drive Bevel Gear (D)	22T	6	
145	R50N305	Counter Gear Shaft		1	
146	R50N405	Ball Bearing	Ø4 x Ø9 x 4mm	2	
147	R50N205	Tail Blade CF	95mm	2	
148	R550616	Thrust Bearing (F4-9)	Ø4 x Ø9 x 4mm	2	
149	R550155	Thrust Washer	Ø7.2 x Ø8.9 x 0.4m	2	
150	R550613	Ball Bearing	Ø4 x Ø9 x 3mm	4	
151	RF50728	Cap Screw Shouldered	M3 x 16mm	2	
152	RF50624	Blade Grip		2	
153	R550173	Tail Rotor Hub		1	
154	RF50613	Grip Link		2	
155	RF50616	Shoulder Screw	M2	2	
156	RF50826	Tail Pitch Slider Assemly		1	
157	RF50617	Pin Screw	M3	2	
158	RF50621	Bellcrank Lever		1	
159	RF50622	Linkage Lever		1	
160	RF50623	Bellcrank Base		1	
161	RF50620	Tail Side Plate, Right		1	
162	RF50619	Tail Side Plate, Left		1	
163	R550063-V	Vertical Fin	1.5mm	1	
164	R550063-H	Horizontal Fin	1.5mm	1	
165	R50N312	Tail Shaft Spacer	Ø5 x Ø5.6 x 12.75m	1	
166	R50N313	Tail Case Spacer		1	
167	R50N932	Tail Rotor Shaft Assembly		1	

No.	Code No.	Name	Specification	QuantIty	Remarks
168	R50N316	Tail Bevel Gear 18T		1	
169	R550612	Ball bearing	Ø5 x Ø11 x 4mm	2	
170	RF50618B	Tail Case Hub		1	
171	R50N317B	Tube Shaft Spline		2	
172	RF50601	Tail Push Rod	685mm	1	
173	R550220	Tail Rotor Push Rod Guide (Plastic)		3	
174	R50N456	Seft Tapping Hex Socket Screw	M2 x 10mm	3	
175	R50N321	Tail Boom	Ø20 x Ø21 x 710mm	1	
176	R50N509	Stabilizer Mount		1	
177	R50N318	Tube Bearing Support		2	
178	R550707	Flat washer	Ø2 x Ø4 x 0.5mm	2	
179	R550753	Cap Screw	M2 x 5mm	14	
180	R550717	Cap Screw	M2 x 10mm	4	
181	R50N508	Front Support Stand off		2	
182	R50N507	Front Support Threaded Spacer		1	
183	R550124	Boom Support End		4	
184	R50N459	Cap Screw	M3 x 25mm	2	
185	R550226	Boom Support CF Rod		2	
186	R50N315	Tube Shaft	Ø7 x Ø8 x 710mm	1	
187	E00006A	Screw Pin	M3 x 8mm	1	
188	R550451	Button Head Cap Screw	M3 x 6mm	2	