

GOEP

Technical Data:

Overall Length	1340 mm
Overall Height	430 mm
Overall Wide	210 mm
Main Rotor Diameter	ca.1560 mm
Tail Rotor Diameter	ca.280 mm
Gear Ratio	9:1:4.7 (others Optional)
Gross Weight	4200g - 4600g (Depending on Equipment and Main Blades used)

PLEASE READ AND UNDERSTAND THE INSTRUCTIONS THOROUGHLY BEFORE ASSEMBLY



INTRODUCTION

Please read this manual carefully. It is essential for the correct assembly of the



For the correct assembly and safe flying, this manual uses this symbol where special attention is required in the assembly of your model. It is very important that you follow the instructions at these points in the manual. Failure to do so can lead to the loss of control of the model without warning and the possibility of serious accidents or injury.



NOTE Failing to carry out the instructions at this point in the assembly manual will probably result in an electronic or mechanical failure occurring without warning.

IMPORTANT Means that special care is required at this point for correct assembly.

Disclaimer:

Whilst every effort has been made to supply the correct information in this manual, The Manufacturer and Distributor cannot guarantee that the purchaser will interpret or follow these instructions as intended and therefore the Manufacture and Distributor assumes no liability for damage or claims that may occur from the use/misuse of this product.

Do not be fooled it is NOT easy to fly R/C Helicopters

It may look easy when watching an experienced pilot flying his model, but perseverance and hours of practice will needed before you will be able to fly and opperate the model safely. RJX HOBBY suggests you join a club or seek help from an experienced pilot to help you in your first hops off the ground and then as with all things the more you practice the better you will become. Who knows you could be the neXT90- world champion.

WARNING

The fuel used in model helicopter engines is highly inflammable and poisonous to human beings. For your own safety and that of others, you should exercise care when handling and storing it. Always read the label on the container and please note the cautions below.

- 1. Model helicopter fuel is highly inflammable. Do not smoke or light fires near your fuel.
- 2. We recommend that you keep your fuel in metal cans or plastic bottles and to store it where there is no risk of fire.
- 3. Please keep fuel away from the starter battery. It only needs one spark and.....!!!
- 4. Wipe up spilt fuel immediately. Do not take any chances.
- 5. Do not leave fuel in the sun or in you car on a hot day.
- 6. Before refuelling, shut off the engine and wait until it cools down.
- 7. Always drain the fuel tank of you helicopter at the end of a flying session. It is good practice.



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HOW TO USE THIS INSTRUCTION MANUAL

This manual contains the detailed instructions to build and set up the **SOURCE**. Please follow it to ensure that you achieve the best performance and mechanical integrity from your finished kit. For those of you who already have experience of model helicopters, we still suggest that you assemble and adjust your model according to these instructions for the best results. Please keep your copy of this manual in a safe place and refer to it when replacing spare parts or upgrading.



Use CA (Superglue or similar) at this point



Remove oil and grease then apply threadlock. (This applies throughout the manual)

Remove oil and grease. (This applies throughout the manual)

Please refer to the list at the end of this instruction manual when you need spare parts.

TO PREVENT LOOSE SCREWS AND BOLTS

Regardless how tight the nuts, bolts and screws are tightened, they will still slowly come loose over a period of time due to vibration from the helicopter. Should this happen the helicopter will become out of control or severely damaged causing a very potential dangerouse situation.

We strongly recommend that you apply threadlock to any nuts, bolts or screws that are indicated by these signs.

There are two types of threadlock, blue (soft) — and red (hard) — . Use blue threadlock on screws that have to be removed regularly and red threadlock for screws that should be fixed permanently. Clean them with Alcohol (or similar) before you apply the threadlock.

ADDITIONAL ITEMS REQUIRED TO COMPLETE THE 90EP



Choose a CCPM compatible PCM Radio Syste Helicopters with a minimum of 6 channels.	em for Gyro Head	system with ing Hold	Three large and two small disks or arms are required		
<u>s</u>	5				
1x Servo extension 100 mm (depending on Servos)	Brushless Motor (Outrunner) 400KV-560KV(10S-12S)		10-12S Li-Po Batterie Pack		
Li-po/lon Charger 100A- for 10	120A Brushless Motor ESC S-12S	690mm - 720mm Main Blades (for kits without Blades)			

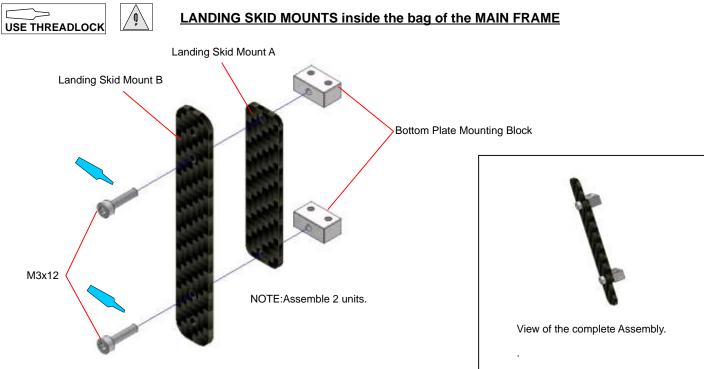


TOOLS REQUIRED (NOT INCLUDED)

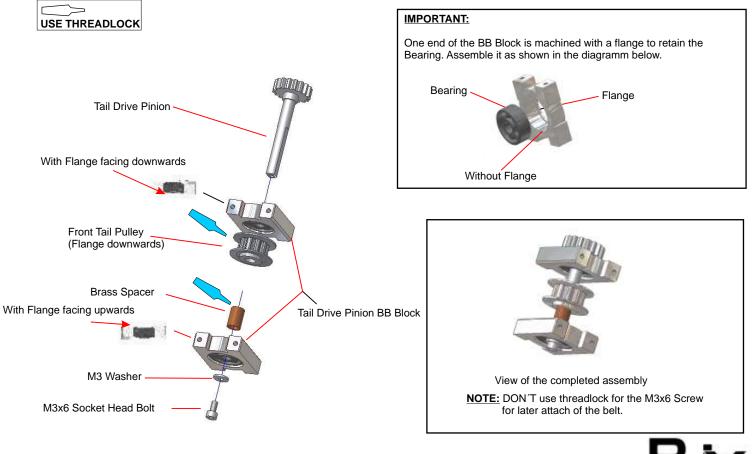
ANNIN CONTRACT							
Allen Drivers 1,5mm - 2mm - 3mm - 4mm P		Phillips Drivers Large,Middle, Small		Nut Drivers 4,5mm - 5,5mm - 7mm			
1				20			
Cutter		Universal Pliers		Scissors			
					AND		
Sandpaper	Ball Link Pl	ier	Metric Ruler		Pitch Gauge		
Cyanoacrylate (CA/Superglue)	Epoxy 30 Minutes	Grease		Ball Link Tool			
State of the second sec							
Ball Link Driver							



STEP 1-1 Landing Skid Support Assembly

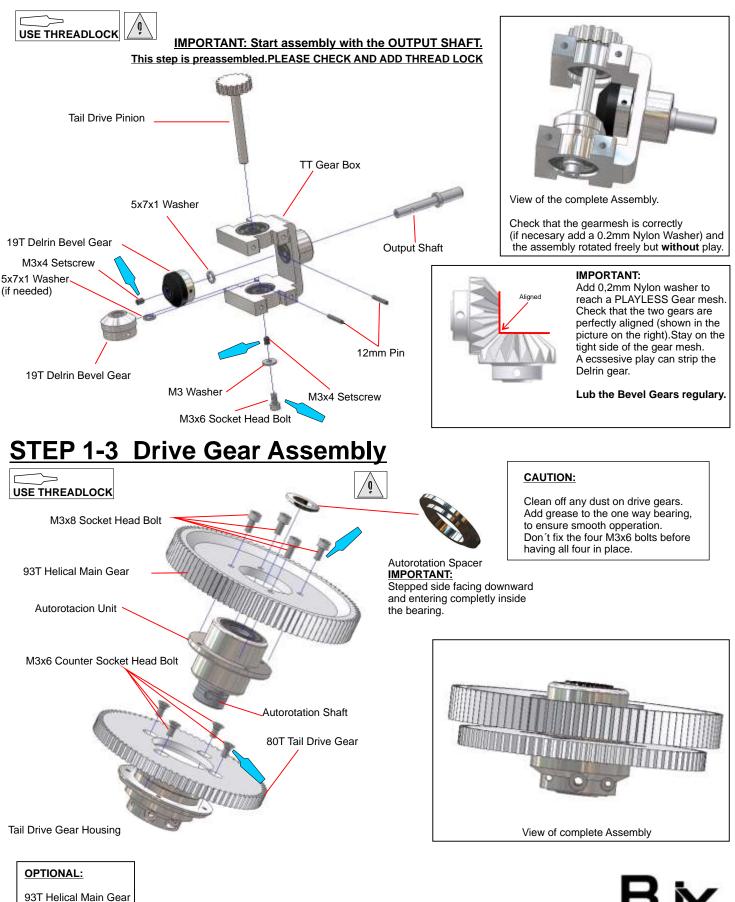


STEP 1-2B Tail Drive Pinion Gear Assembly (Belt Version)



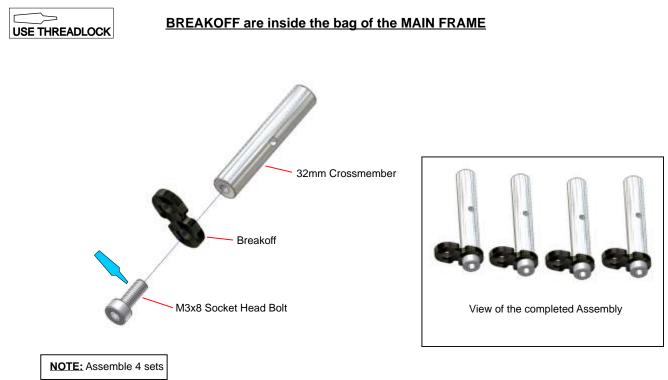


STEP 1-2TT Tail Drive Pinion Gear Assembly (TT Version)

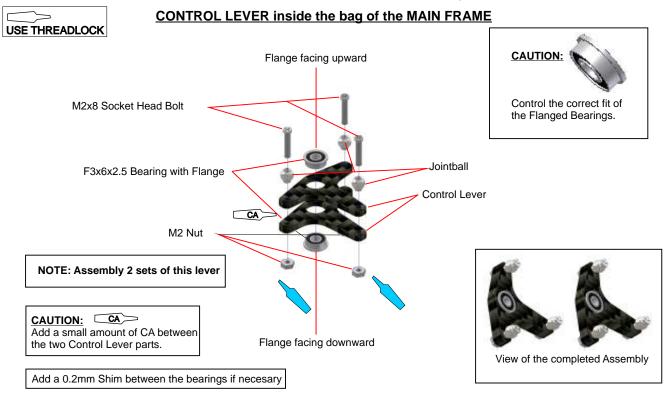




STEP 1-4 Canopy Stands

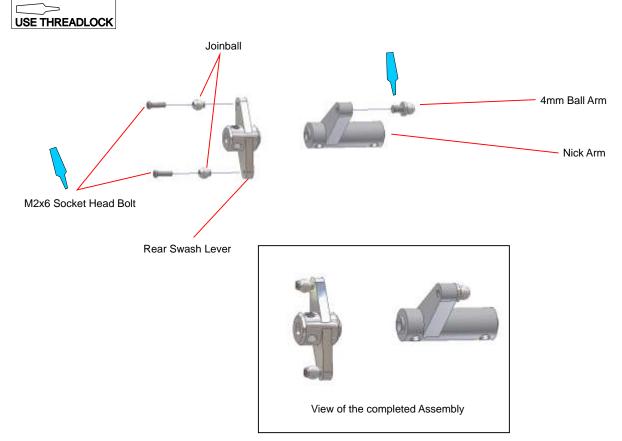


STEP 1-5 Swash Control Lever Assembly





STEP 1-6 Rear Swash Control Assembly



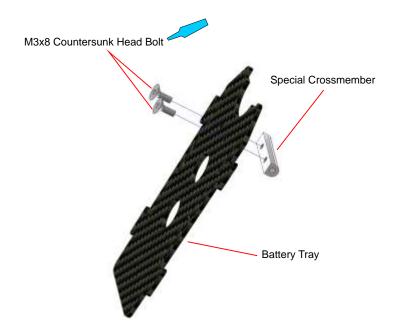
STEP 1-7 Front Tail Arm Assembly

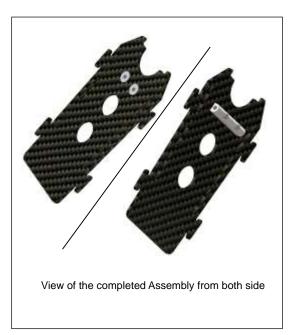




STEP 1-8 Battery Tray Assembly

BATTERY TRAY inside the bag of the MAIN FRAME

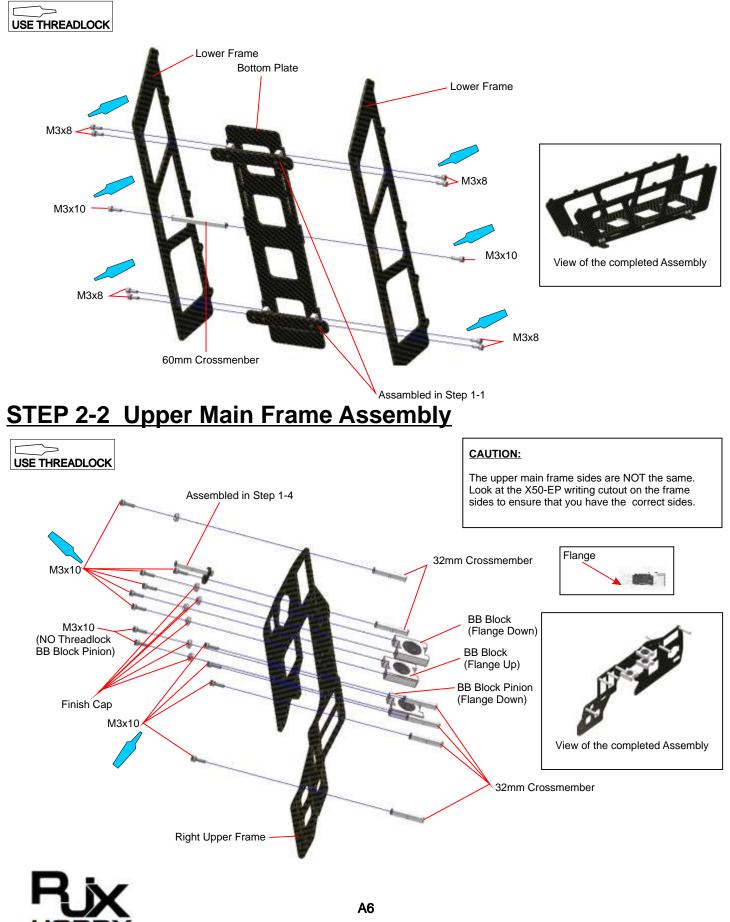




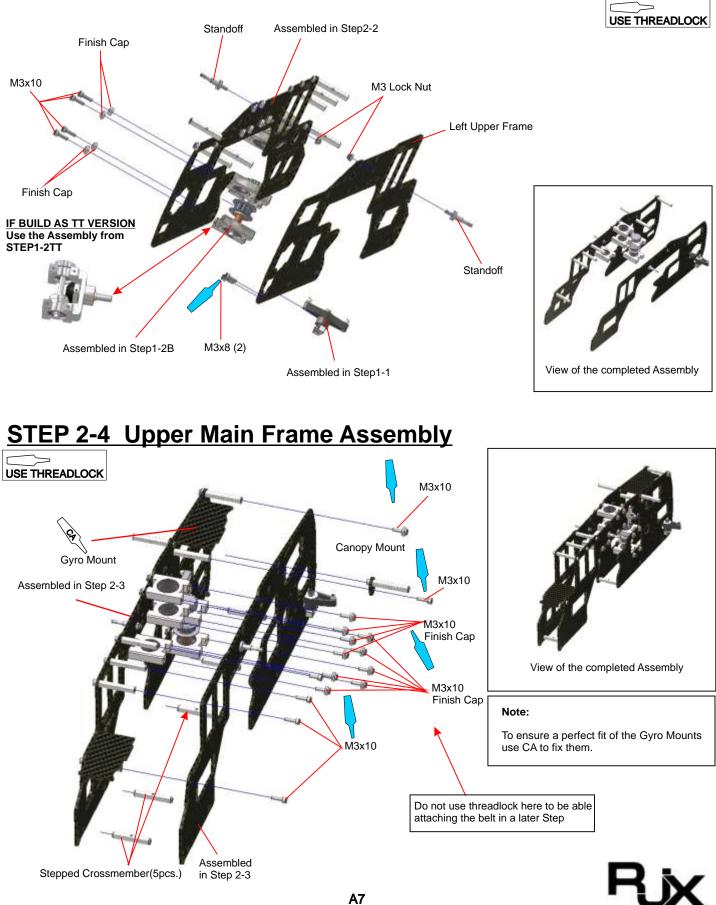


STEP 2-1 Lower Main Frame Assembly

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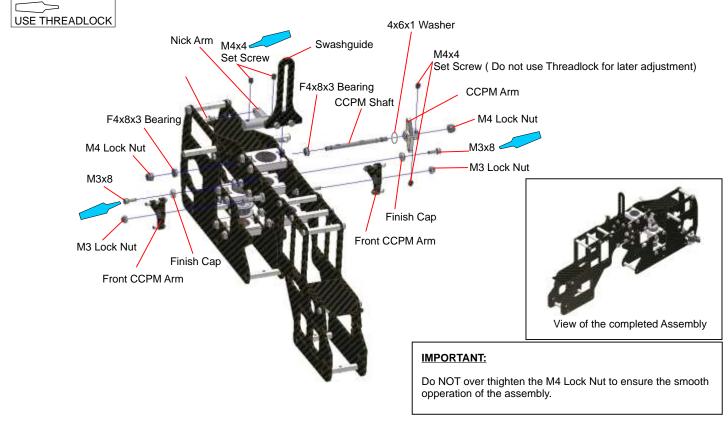


STEP 2-3 Upper Main Frame Assembly



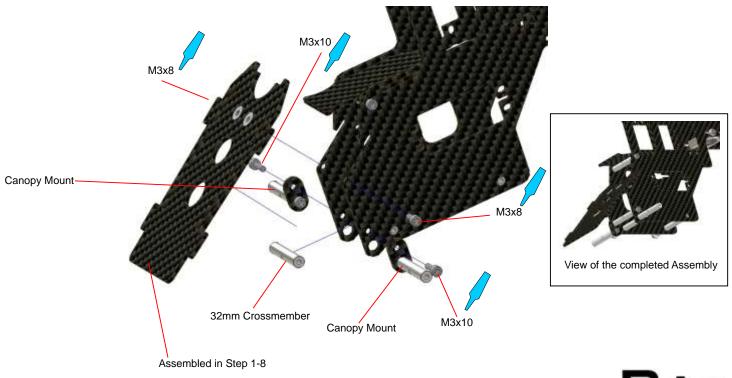
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STEP 2-5 Upper Main Frame Assembly



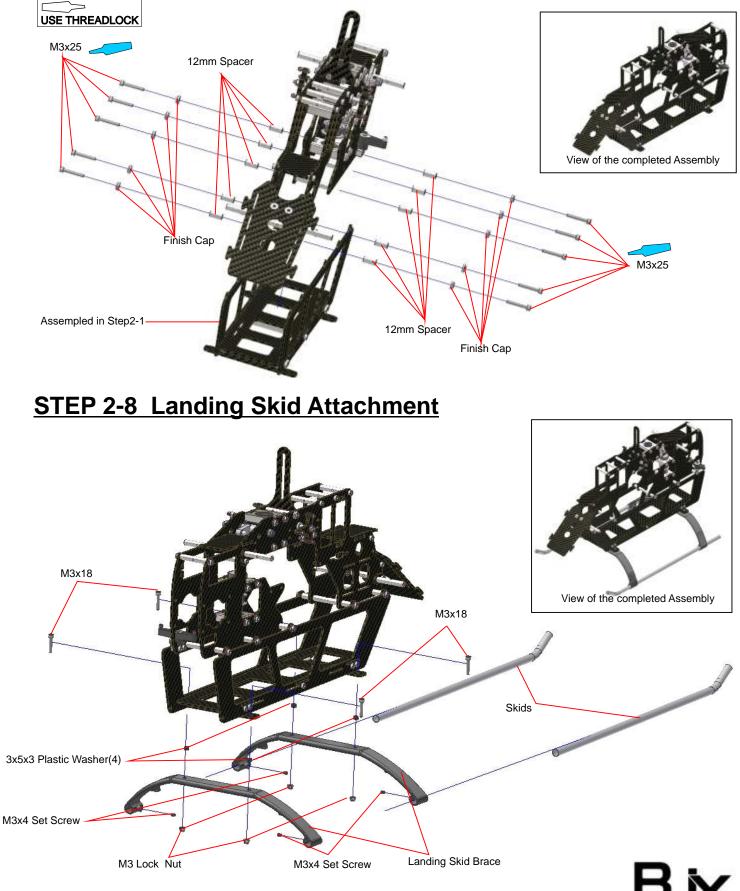
STEP 2-6 Upper Main Frame Assembly

USE THREADLOCK



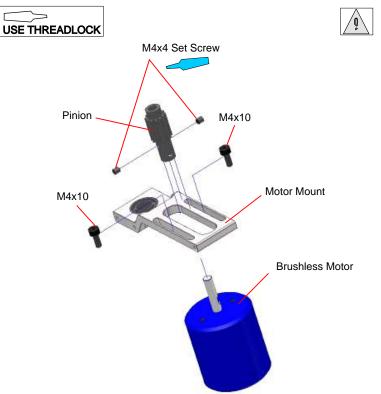


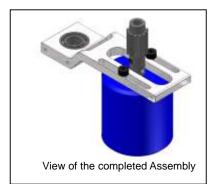
STEP 2-7 Main Frame Assembly





STEP 3-1 Drive Gear Instalation

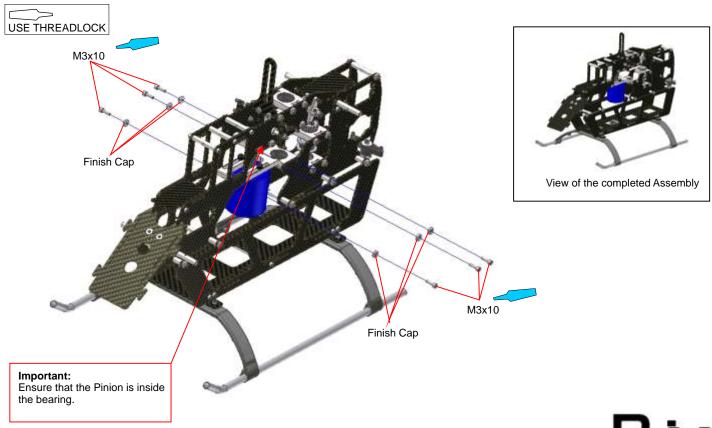




Note:

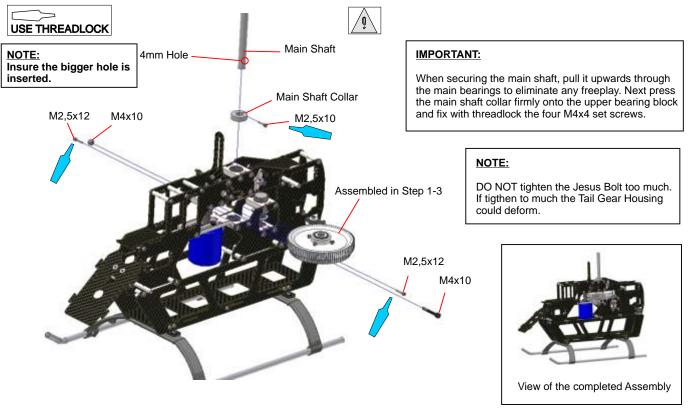
Do not tighten the two M4x10 screws. On some motors you can use up to 4 Set Screws to fix the Pinion. Depending on the KV of the Brushless Motor the Pinion and/or the Maingear must be changed to reach a good ratio.

STEP 3-2 Drive Gear Installation





STEP 3-3 Drive Gear Instalation



NOTE:

Depending on Motor and Ratiu selected the distance between main gear and motor position will change. Ensure to archive a perfect gear mesh. On high power setups, please leave the backslash as samll as possible without beeing to tight.



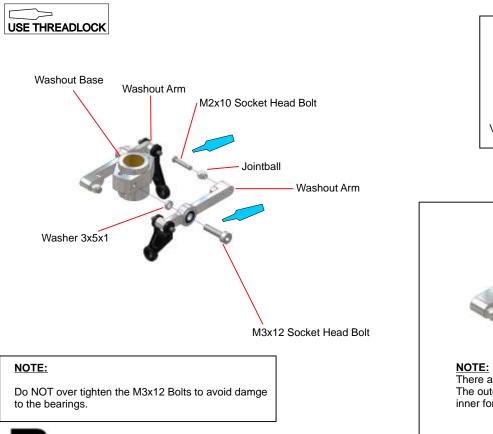
STEP 4-1 SWASHPLATE ASSEMBLY



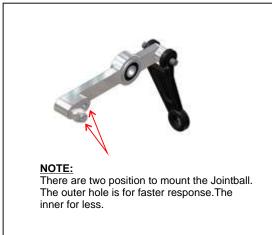
9mm Ballarm (3) 4mm Ballarm (4) Swash Guide Pin



STEP 4-2 WASHOUT ASSEMBLY

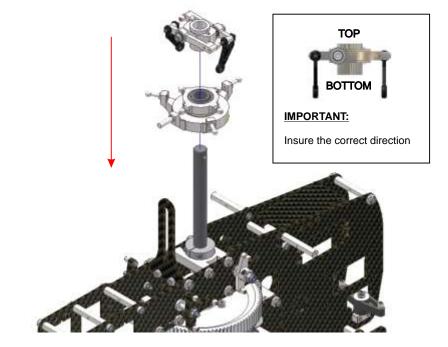


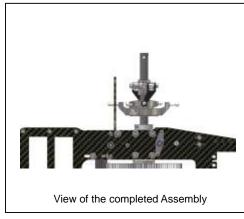






STEP 4-3 SWASHPLATE / WASHOUT INSTALLATION



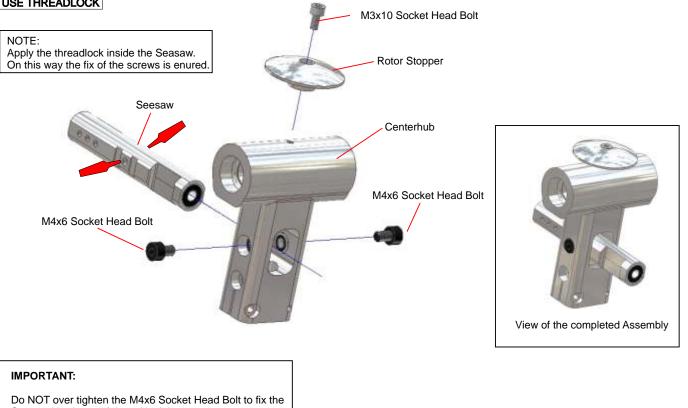


NOTE:

Attach the two Washoutlinks to the swash plate.

STEP 4-4 SEESAW INSTALLATION

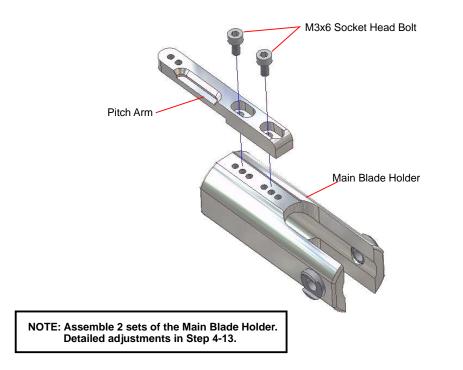




Seesaw.Hard type of thread lock is necessary.



STEP 4-5 MAIN BLADE HOLDER ASSEMBLY

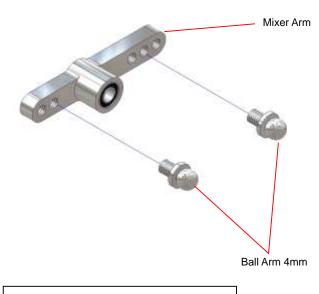




STEP 4-6 MIXER ARM ASSEMBLY

IMPORTANT:

Mixer settings are explained in Step 4-13 more detailed.



NOTE: Assemble 2 sets of this mixer arm

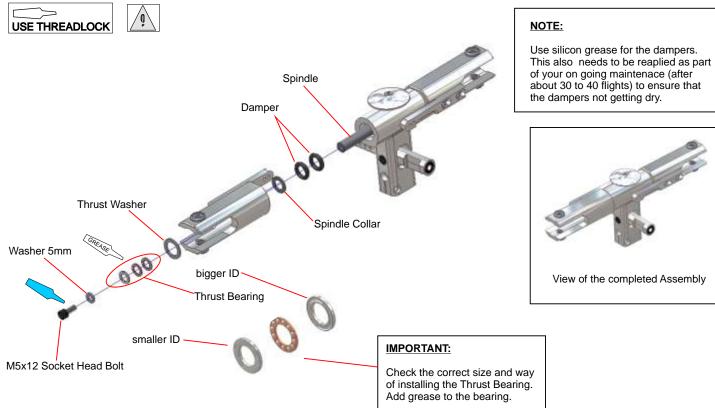


NOTE:

Don't use in this step threadlock to fix the Ball arm.

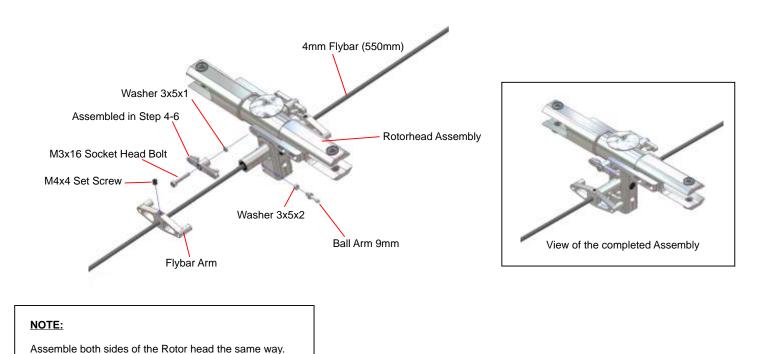


STEP 4-7 MAIN ROTOR HEAD ASSEMBLY



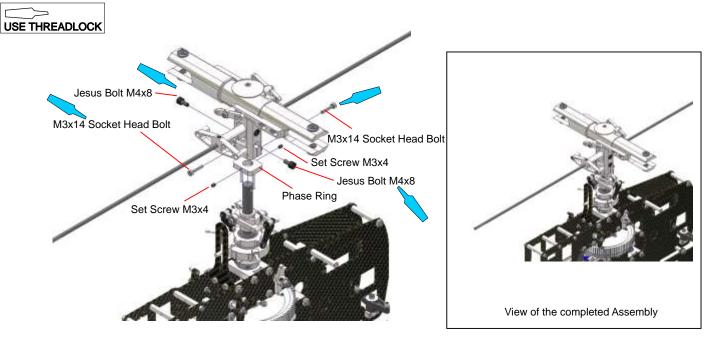
STEP 4-8 MAIN ROTOR HEAD ASSEMBLY

Do NOT use threadlock for later adjustments.

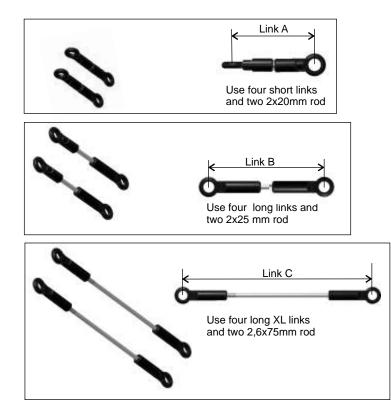




STEP 4-9 MAIN ROTOR HEAD ASSEMBLY



STEP 4-10 CONTROL ROD INSTALLATION



NOTE:

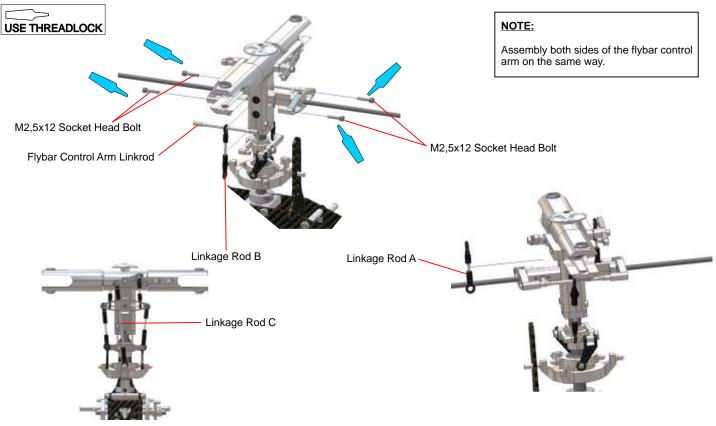
The size of the linkage rod can variate depending on the head setup. In the STEP 7-2 will be an example of setup with the acording sizes of the linkage rods.

By looking closely, you will notice on the universal links the letters RJX (on the small) and RJXHOBBY on the large links. ensure this are always pointed outside from the ball as shown in the diagram below.





STEP 4-11 CONTROL ROD INSTALLATION



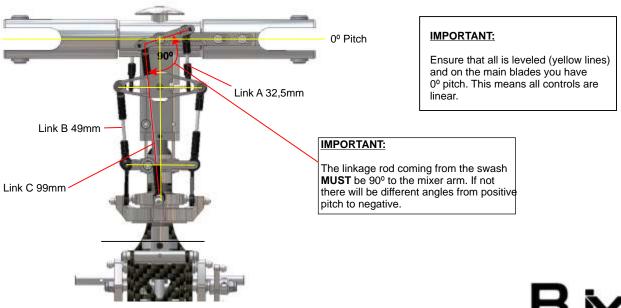
STEP 4-12 ROTOR HEAD SETUP

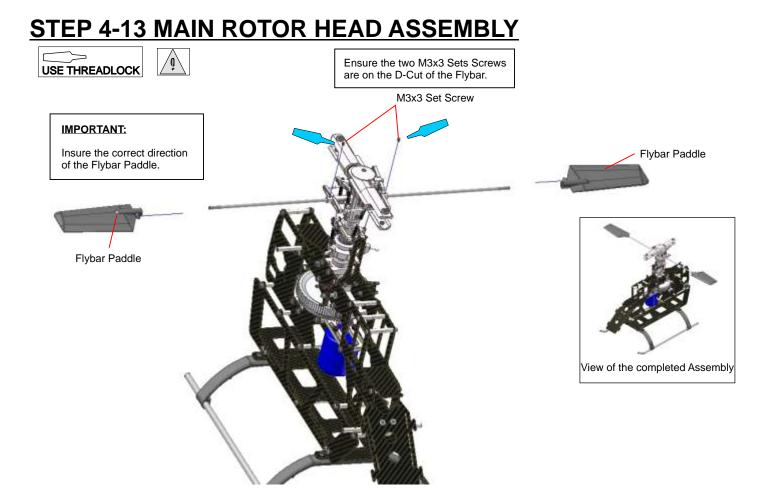
IMPORTANT: SECURE ALL JOINT BALLS AND SCREWS WITH THREADLOCK

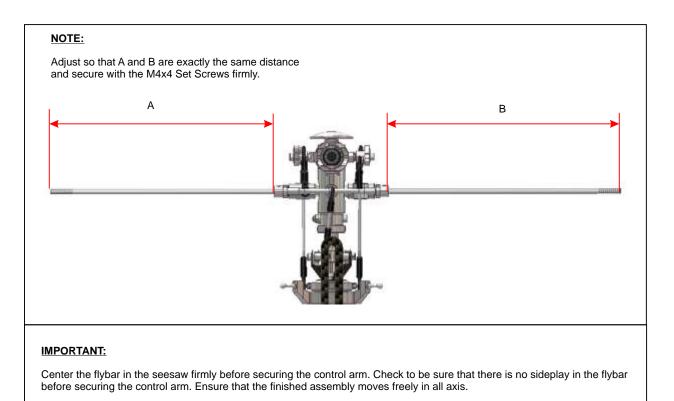
NOTE:

In this STEP will be explained one setup of the rotor head what is good point for 3D maneuvers. There are many other settings possible. Linkage rod sizes from the rotor head are changing depending on this settings.

The size of the linkage rod is meassured from center to center of the hole (see STEP 4-10).



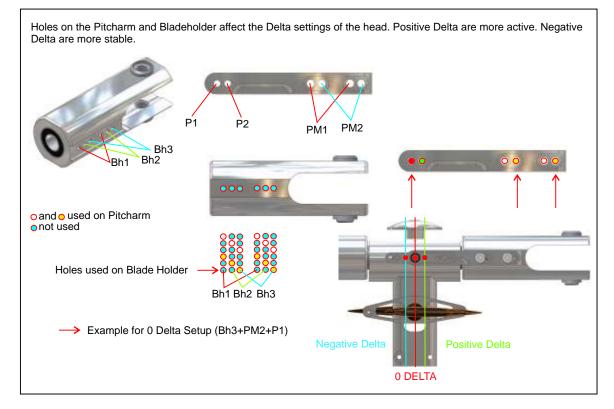


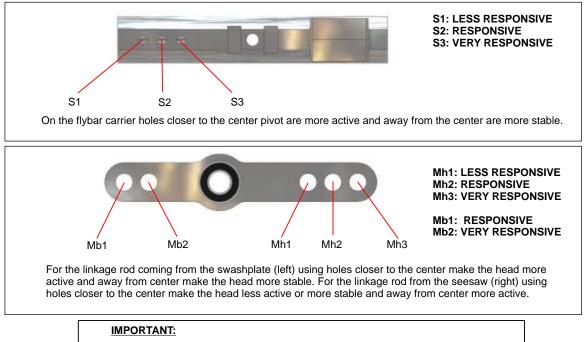




STEP 4-14 ROTOR HEAD SETUP

In the diagrams below are explained the different settings posibilitys of this rotor head. There are many setups with different results. Adjust this settings on demand of you and your capability. Some of the settings can produce binding. Ensure that the ATV settings in the radio and linkage rod adjustments allowing no bindings. This is important to achive a good performance of the rotor head.

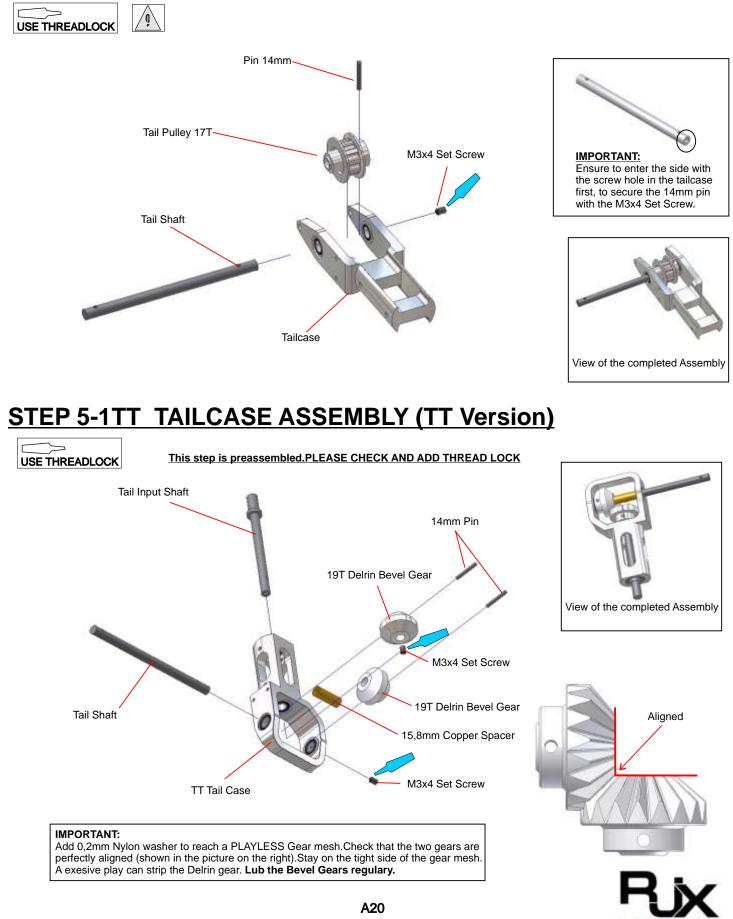




When using very responsive settings the forces applied to the CCPM servos are higher than normal. Plastic servo gears can suffer or break. Servos with metal gears are recommended for those settings.

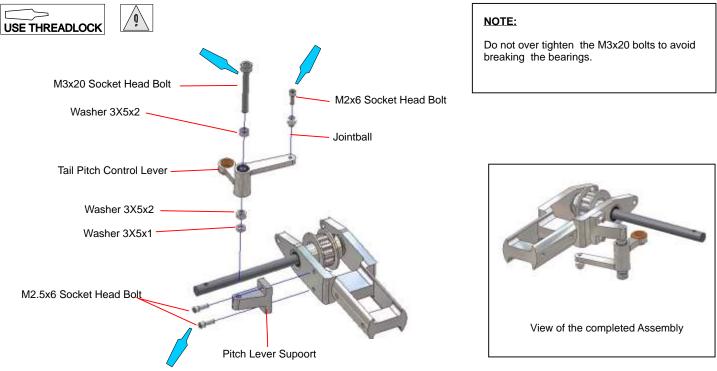


STEP 5-1B TAILCASE ASSEMBLY (Belt Version)

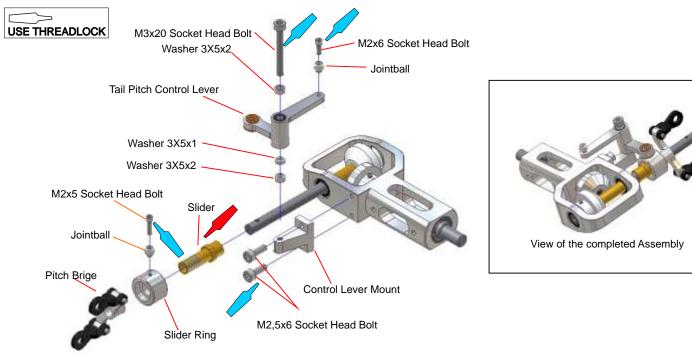


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STEP 5-2B TAILCASE ASSEMBLY (Belt Version)



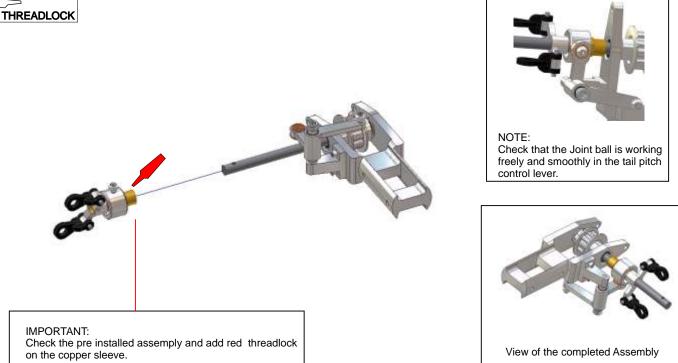
STEP 5-2TT TAILCASE ASSEMBLY (TT Version)



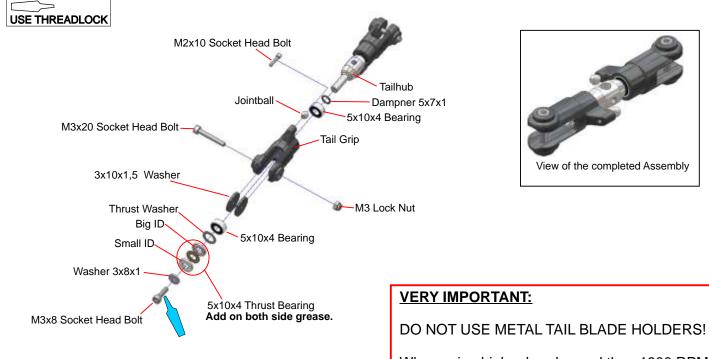


STEP 5-3 TAILCASE ASSEMBLY (TT+Belt Version)

USE THREADLOCK



STEP 5-4 TAILROTOR ASSEMBLY (TT+Belt Version)

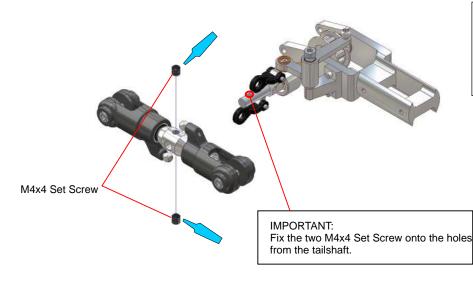


When using higher head speed than 1900 RPM do NOT use larger tail blades than 95mm.



STEP 5-5 TAILCASE ASSEMBLY (TT+Belt)



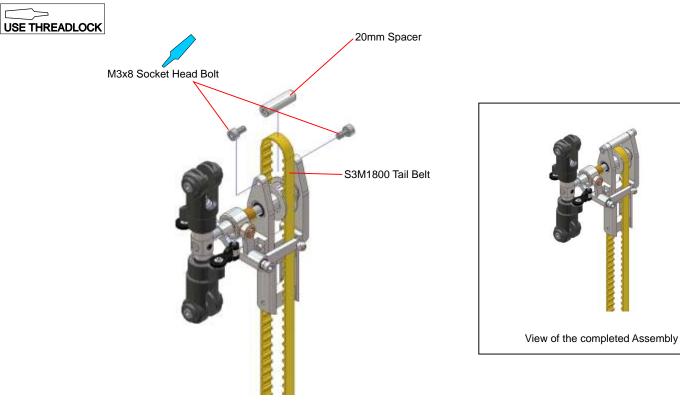


NOTE:

Clip the linkage into the jointball and check that the assembly works smooth.

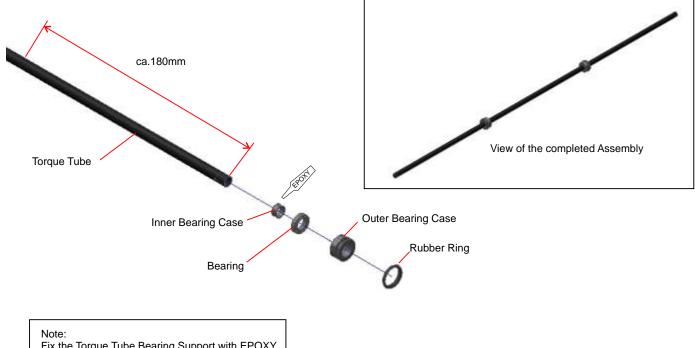


STEP 5-5B TAILCASE ASSEMBLY



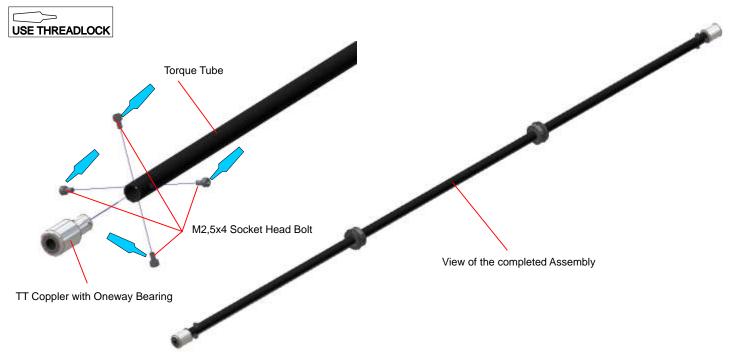


STEP 5-6TT Torque Tube ASSEMBLY



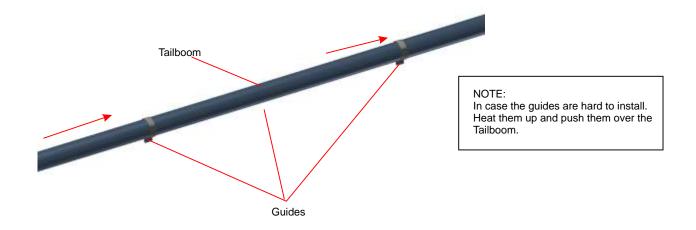
Fix the Torque Tube Bearing Support with EPOXY. Take special Care that no EPOXY get inside the Bearing when assembly.

STEP 5-6TT Torque Tube ASSEMBLY

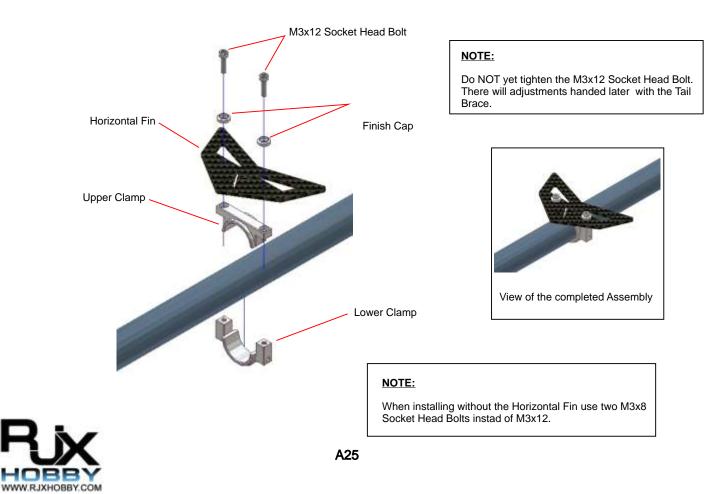




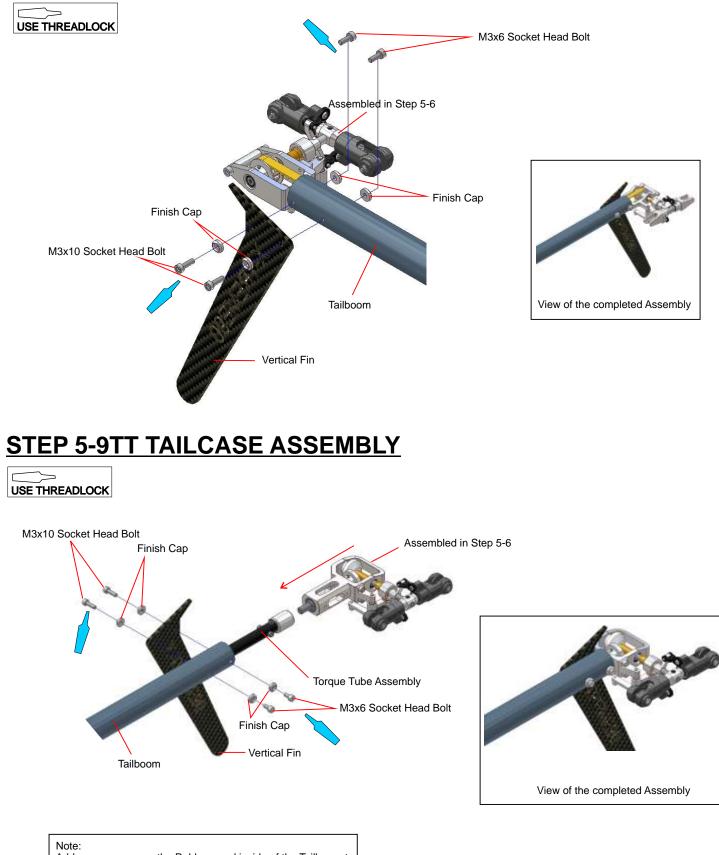
STEP 5-7 TAIL BOOM INSTALATION (TT+Belt Version)



STEP 5-8 TAIL BRACE ASSEMBLY (TT+Belt Version)



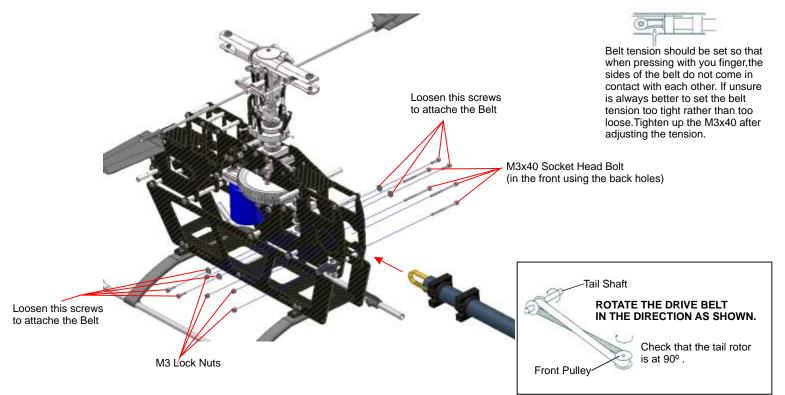
STEP 5-9 TAILCASE ASSEMBLY (Belt Version)



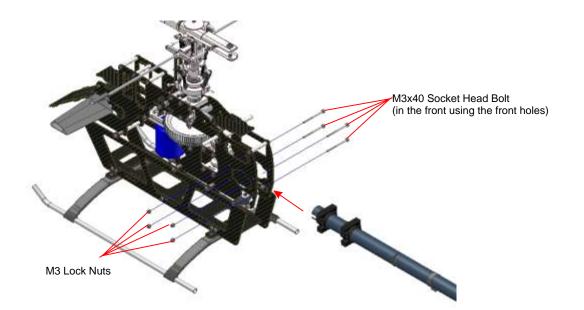
Add some grease on the Rubbers and inside of the Tailboom to introduce the Torque Tube assembly easily.



STEP 5-10B TAIL BOOM INSTALATION (Belt Version)

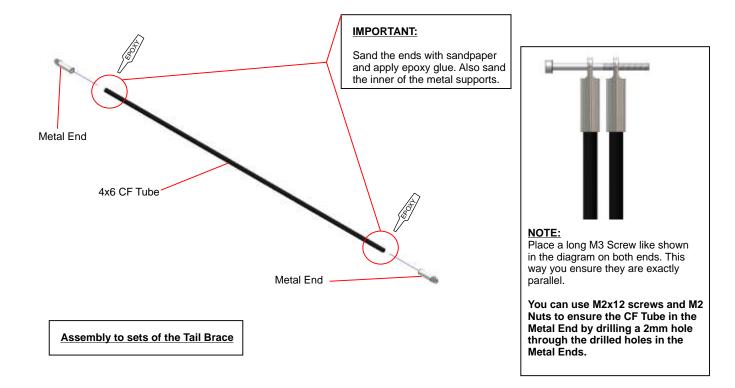


STEP 5-10TT TAIL BOOM INSTALATION (TT Version)





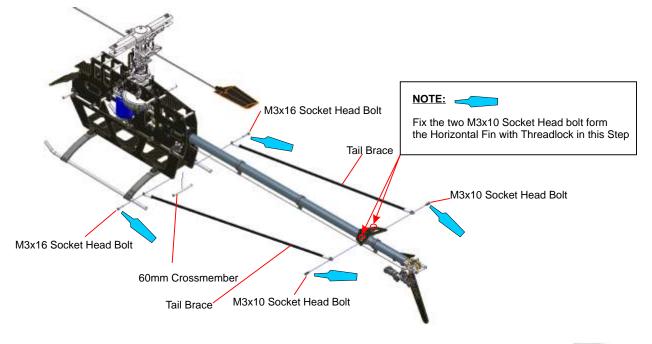
STEP 5-11 TAIL BRACE ASSEMBLY (TT+Belt Version)



STEP 5-12 TAIL BRACE INSTALLATION(Belt+TT Version)

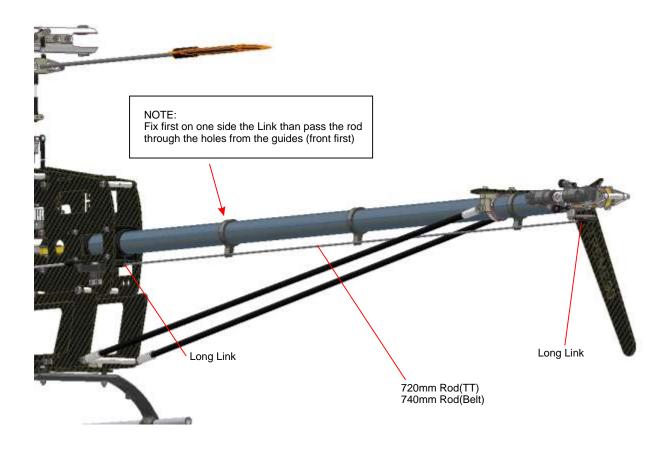
USE THREADLOCK

View of the completed Assembly



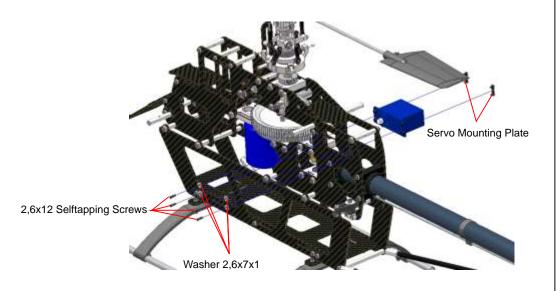


STEP 5-13 TAIL CONTROL ROD ASSEMBLY





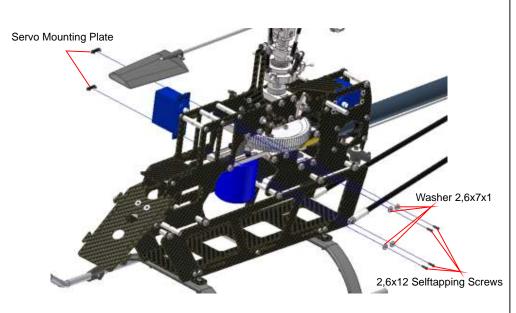
STEP 6-1 SERVO INSTALLATION



Note:

After fixing the Servo into the Frame pass the cable to the front and fix it with the delivered cable straps to the frames.

STEP 6-2 SERVO INSTALLATION



IMPORTANT:

Depending on servo type used for cyclic, you have to install the servo from inside the frames.When installing from outside the servo horn may touch the canopy. In the diagram below you see how to insert the servo into the frames.

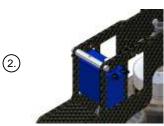
1.Attach the servo mounting plate into the grommets from the servo.

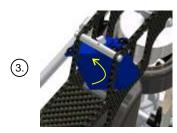


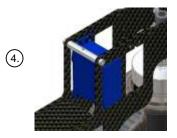
2.Steps to follow to inserting the servo.



(1.)



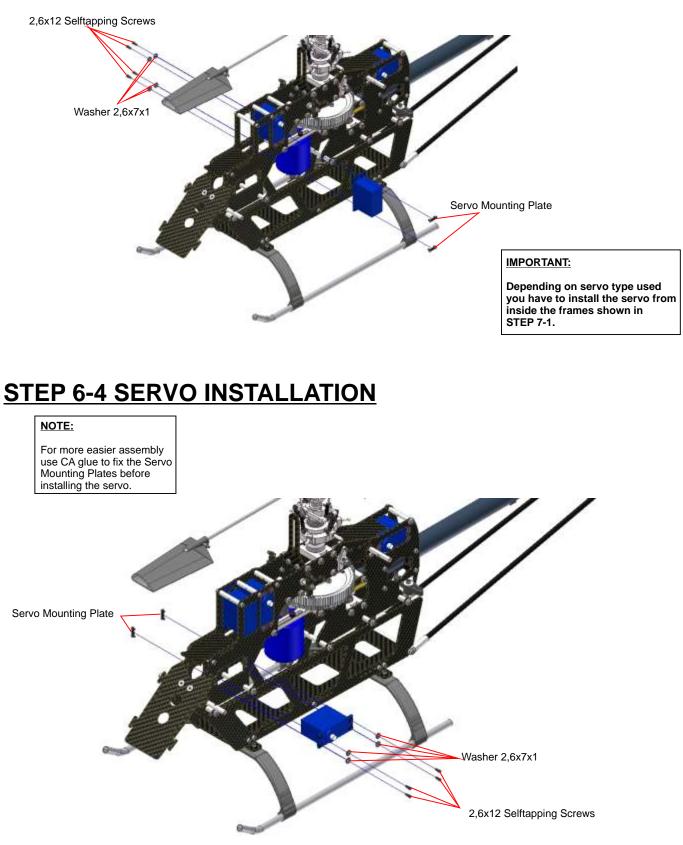




When you have the servo in this position fix it with the four Selftapping Screws and Washers as shown on the left.

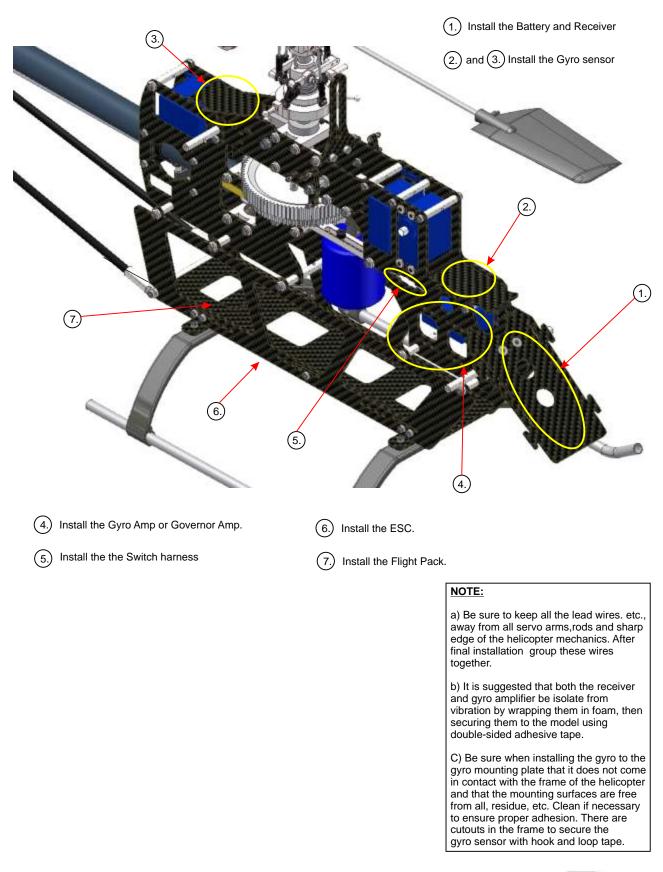


STEP 6-3 SERVO INSTALLATION





STEP 6-5 RECEIVER / GYRO / BATTERY INSTALLATION





STEP 6-6 SERVO ARM PREPARATION AND INSTALLATION

NOTE:

Before attaching any of the servo output arms, turn on your radio and check that all of the primary control functions and trims are set to neutral. Pay special attention to the throttle/pitch channel where the stick has to be positioned manually unless your transmitter has a digital or graphical display of the output. If you have this feature, set the stick to give a read out of 50%. If you do not have this feature you will need to set the stick to the neutral position by eye. If you also have hovering pitch and throttle trim knobs, these should also be set to their mid positions to give equal amounts of +/- output. Once you have done this, all of the servos should be at their mid points and have equal amounts of rotation in both directions.

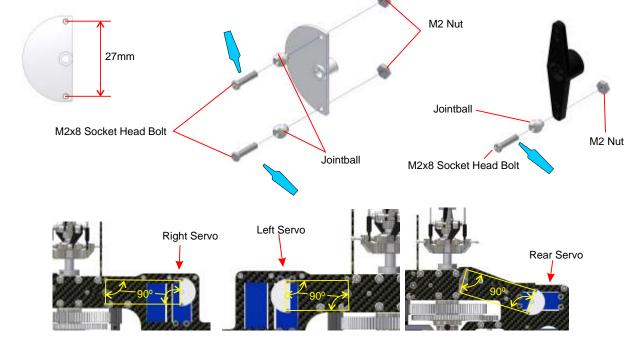
Initial set up can now begin.

Choose the thickest output arms/discs that you have, and that can accommodate the joint balls at a radius of 13.5mm each. For the left/right servos try the disc/arm on the output shaft until you find a position where a suitably spaced pair of holes sits closest to the centre line of the servo case. For the front servo, imagine a rectangle whose four corners sit on the four joint balls making up this linkage. The holes in the disc/arm should sit on the line that forms the short end of this rectangle. Please refer to the diagram again for clarification.

If you cannot find an exact position use the one nearest and make minor adjustments with the appropriate sub trim and not the main trim.

Remove the disc/arms one at a time and noting which side the joint balls fit, attach them as shown. Also note the use of spacers under the joint balls fitted to the left/right servo discs/arms.

Cut off the excess material or unused arms as shown and refit the finished disk/arm in its original position. Fix securely with the screw that came with the servo.



IMPORTANT:

Be sure that all arms are 90° and parallel to each other like shown in the diagrams above.

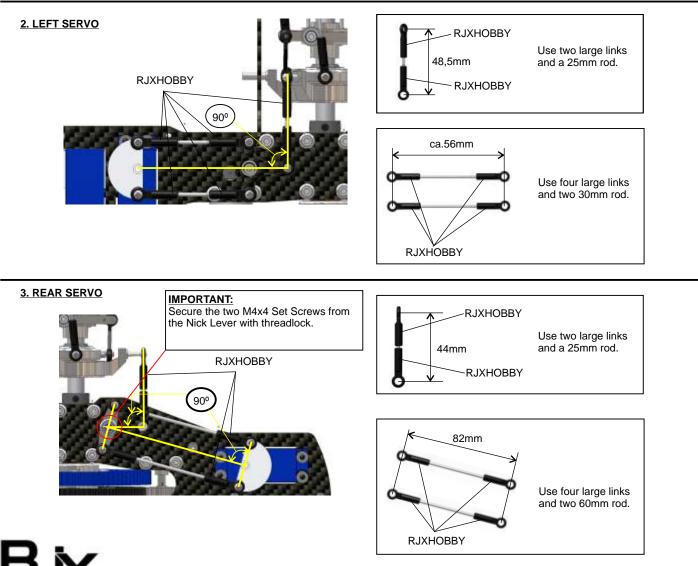
- 1. Attach the jointball to the servo horns on the left,right,rear,throttle (ensure the carburator is at 50% opened, if not adjust the throttle arm on the carburator) and tail servo as shown in the diagram above.
- 2. Mount the servo horns firmly with the screw included in the servo. Use threadlock on servos with metal gears to secure the screws.
- 3. Be sure to connect the servos according your transmitter manual.
- 4. Make sure all servo horns are positioned as shown above. If the servo horn is not parallel as shown, minor centering adjustments can be made using the radio's subtrim.



USE THREADLOCK

STEP 6-7 LINKAGE CONNECTION

1. RIGHT SERVO - RJXHOBBY Use two large links and a 25mm rod. 48,5mm RJXHOBBY RJXHOBBY 90° 85mm Use four large links and two 60mm rod. RJXHOBBY

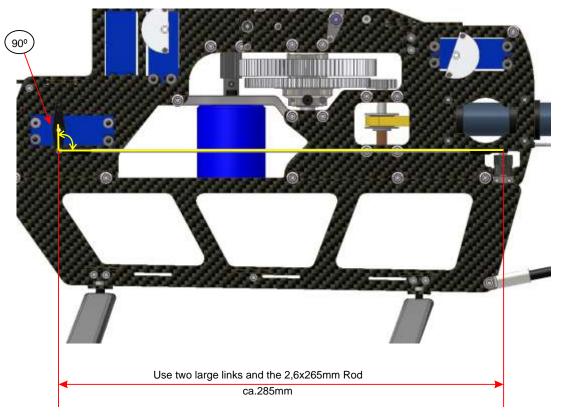




NOTE: Assembly the linkage as shown below Check the correct side of the link with the logo.

STEP 6-8 LINKAGE CONNECTION

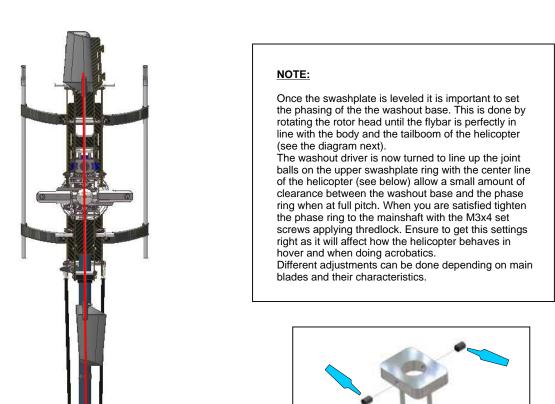
5. TAIL SERVO



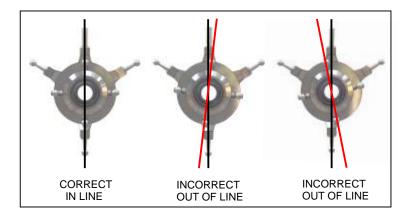


STEP 7-1 PHASE RING ADJUSTMENT

CENTER LINE OF THE HELICOPTER



IMPORTANT: Use threadlock to secure the M3x4 set screws

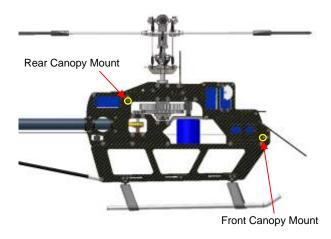


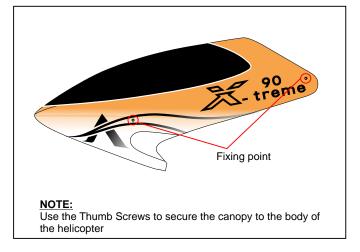


STEP 7-2 CANOPY ATTACHMENT

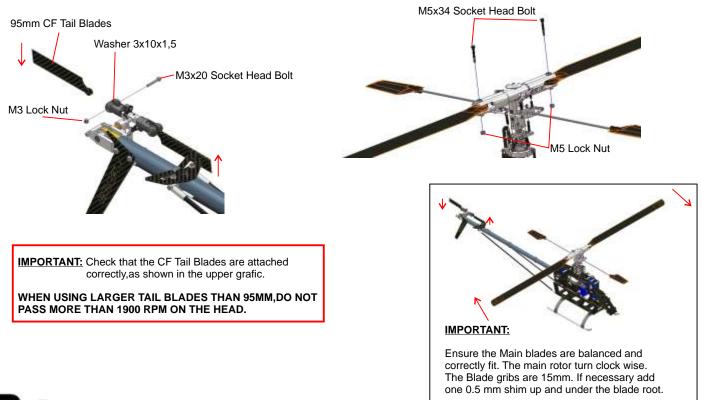
NOTE:

Put the rubbers grommets for about 3 min. in hot water to insert them more easier in the canopy.





STEP 7-3 MAIN / TAIL BLADE INSTALLATION





STEP 8-1 FINAL SERVO AND RADIO SETUP

Rudder and Throttle Servo Adjustments

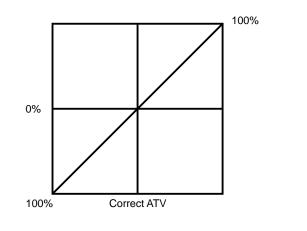
1. Checking the servo rotation.

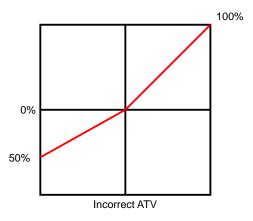
With the radio transmitter and receiver switched on, move the rudder and throttle sticks, and check that each servo moves in the correct direction. If either servo moves in the wrong direction, it will be necessary to reset that servo using the appropriate reversing function on your transmitter.

2.Travel Adjust.

Switch the transmitter and receiver on, then move the rudder and throttle sticks to their extremes and see if each servo moves to its full control position. If either servo moves too far and binds up it will be necessary to reduce the ATV for that channel, likewise if it does not move far enough you will have to increase it. For any given channel, the value in both directions should be equal. Do not exceed a maximum ATV difference of 10%. If the throttle ATV is unbalanced by more than this amount, then the servo sub trim or the positions of the arms on throttle servo and/or on the carburator will have to be repositioned. If the rudder ATV is unbalanced by more than 10% then the servo sub trim and/or tail pitch arm neutral setting should be re-checked and any necessary adjustments made.

NOTE: Try to get the mechanical set up as close possible to the values given in this manual and you will find that final trimming will be so much easier. Using the transmitter to correct a poor mechanical set up will result in a model that is very difficult to trim and fly.





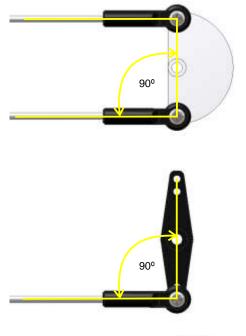
3. Sub trim Function

When the rudder stick and trim are in their mid position make sure that the servo horn and tail control rod are at 90° as shown next. If you cannot achieve the desired servo arm position use the sub trim function to make minor adjustments.

NOTE: It is necessary to keep the sub trim values as close to zero as possible to make final setting up simple.

If you are not using a head locking gyro it will be necessary to adjust the revolution mixing to compensate for the torque changes of the engine during all flight conditions (except autorotation). We recommended that the initial Revo mix values be set to approximately 10% for hovering and 5% for stunt/aerobatic flight. Since there are many variables that can alter the values of the revolution mixing, it will be necessary to fine tune these according to your flying style. If you are using a dual function gyro ie one that can be switched between normal and head locking mode, then please refer to your gyro's instructions for more information.

NOTE: The Revo mixing values must be set for a helicopter with a clockwise rotating head.





STEP 8-2 FINAL SERVO AND RADIO SETUP

Now that the radio system is fully installed the following items require precise adjustment to achieve the best results.

1. Dual Rates

If dual rates are available for the aileron, elevator and rudder channels, then please ensure that they are all set to the same position for high and low ie. all up or all down. Either switch position may be selected as the low or high rate. Please see your radio manual for further information.

2. Exponential Setting

We suggest that exponential rate settings for the elevator and aileron remain at zero during the initial test flights. When the model has been properly trimmed you may adjust the exponential values to achieve the control feel that suits you. When using a fast response gyro on the rudder the exponential value should be adjusted to approximately 40% to 60% to improve control response and reduce any hunting of the tail.

3. Sub Trim

We suggest that the correct settings be achieved with the minimum use of this function. If the sub trim is used for final adjustments, the values should not vary by more than +/- 10 from the neutral point. If the values need to be greater than this then please reset the sub trim to zero and recheck and/or re-adjust the control linkages.

4. Throttle Hold Function

When this switch is activated, the throttle channel is set to hold the engine to a pre-set idle while still leaving control of the collective pitch active. This is very useful when practicing autorotation landings. It is recommended that the throttle hold value be adjusted to give an idle rpm which is slightly above normal.

5. Gyro Gain Adjustment

The "gain" or holding power of the gyro will have to to be set to prevent the tail moving due to changes of wind direction and engine torque If the gain is too low the helicopter tail will move making it difficult to control. Please refer to your gyro's instructions for the correct set up procedures. Increasing the gain provides more tail stability up to a point when hunting from side to side will occur. We recommended that you start with a gain value of approximately 80% and continue to increase it until the tail of the helicopter starts to Hunt (goes back and forth very quickly). At this point you should reduce the gain a little at a time until the tail becomes stable again. This same adjustment will also be necessary to achieve proper forward flight. Concernally, the gyro gain for forward flight will be approximately 10%-20% less than that for hovering, and is due to the aerodynamic forces present in forward flight. TO HARD TAIL ACTION CAN STRIP THE TT GEARS.

6. Gyro Direction

The gyro direction has to be set correctly. An uncontrollable pirouette will occur on take off if it is not. To set the gyro direction, turn the radio system on and move the rudder stick to the right noting in which direction the servo arm moves. Next suspend the helicopter by the rotor head, watch the servo arm as you rotate the body of the helicopter counter clockwise. The servo arm should move in the same direction as observed previously. If the arm moves in the opposite direction, reverse the gyro direction and re-test.

NOTE: We recommend that a good quality high-speed servo be used for controlling the tail rotor. Please refer to your gyro's instructions for further information.



STEP 8-3 FINAL SERVO AND RADIO SETUP

7.Collective Pitch Setup.

A Pitch Gauge will be required for this operation

	LOW	MIDDLE	HIGH
NORMAL	-4°	+5.5°	+10°
IDLE UP	-10º	0°	+10°
AUTOROTATION	-14º	0°	+14º

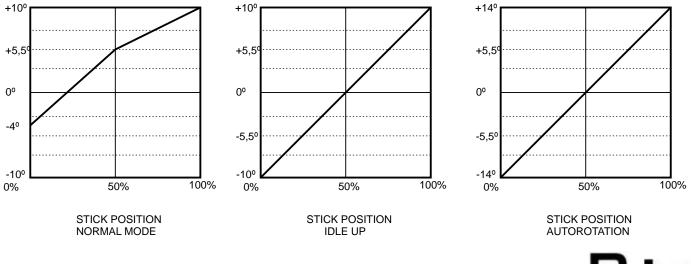
The total pitch range of the TREME is approximately 30 degrees depending the rotor head settings you have done. With a maximum and minimum pitch of +15 and -15 degrees. This means that the center value is 0 degrees. Attach a pitch gauge to one rotor blade and check that the collective pitch setting at centre stick is indeed 0 degrees. If the pitch value is slightly more or less then adjust the length of the connecting rod until the value is correct and then do the same for the other blade.

3D Settings

With the center pitch value set now to 0 degree, it will be necessary to set the maximum positive and negative values to those shown in the tables above. If the values do not correspond try increasing or decreasing the pitch curve, use the swashplate CCPM mixing function on your transmitter, increase or decrease as necessary without causing binding. If you still have difficulty in obtaining the maximum positive or negative pitch values shown in the tables recheck the pitch control rod lengths, and re-adjust as necessary.

8.Pitch Curve

This setting allows you to set the pitch of the main blades to the corresponding position of the collective stick. Adjust the main blades to give the settings shown in the chart below. You may find it necessary to make minor adjustments to these values to suit your particular setup.



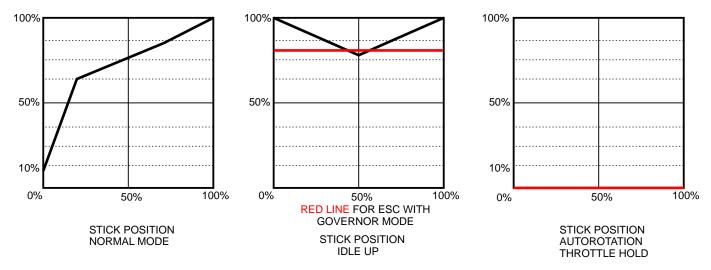


STEP 8-4 FINAL SERVO AND RADIO SETUP

9. Throttle Curve

It is very important to match the throttle curves to those of the main blades. The rotor head should not exceed 2,000 RPM under any circumstances.

NOTE: Throttle curves values can vary greatly due to Brushless Motor and ESC combinations and so it will be necessary to fine tune these settings by test flying to achieve the best results.



10. ESC Setup

For optimum results it is important that the ESC is set up to run properly, and since this depends on the Lipo packs used to reach the lowest Amps Possible to not damage the Brushless Motor, ESC or Lipo packs.

Follow the instructions of the ESC Manual and set it up correctly.

11. Final Checks before attemping to flights

Before attempting to fly please go through this manual and double check your work again.

Check that the main and tail rotor blades turn in the correct direction.



STEP 8-5 FINAL SERVO AND RADIO SETUP

Caution: Be sure to maintain a safe distance of at least 5 meters from the helicopter when observing the track of the main rotor disc.

Blade tracking ensures that both of the main blades are set to the same pitch angle, and if done correctly will make your helicopter smooth in operation.

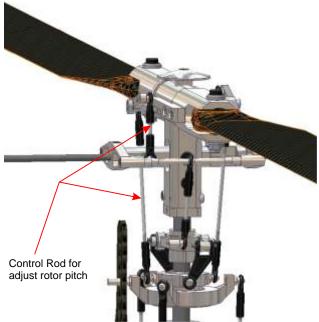


Caution: Be sure to maintain a safe distance of at least 5 meters from the helicopter when observing the tracking of the main rotor disc.

Adjustment should be done using the following method.

Increase the pitch of the low blade by extending its connecting link by one full turn. Note you can only make this adjustment in increments of one full turn otherwise you will be trying to fit the link on to the ball joint the wrong way round. (The "RJX" on the link must face outwards). Check the tracking again and if the tips of the rotor blades are now in line, you have finished and are ready for your first flight. If the blades still require adjustment then reduce the pitch of the high blade this time. Repeat this procedure until the blades are tracking true.

A check of the tracking should be part of your pre-flight routine. If it has suddenly gone out it is an indication that something is wrong and needs immediate investigation.





PLEASE READ BEFORE FLIGHT

The X⁹⁰_{TREME} is the perfect choice for intermediate and expert level R/C Helicopter pilots, however, Radio controlled models such as this can crash and cause serious damage to people and property if not properly assembled and flown with great care. Please exercise the highest levels of caution and safety when operating this model and if you are a beginner, please seek help from an experienced RC heli pilot.

Pre-Flight

Check the battery voltages of the transmitter and receiver packs. Do not risk that "last flight", it really might be the last.

Check to ensure the main rotor and the tail rotor are free from damage. Do not fly with suspect components. Range check the transmitter to a distance of at least 60–75 meter from the model with the transmitter antenna down, checking all control movements.

After filling the tank with fuel, make sure that there is no leakage.

Ensure that the throttle stick is at idle and always hold the rotorhead firmly before attempting to start the engine. Throttle hold should be switched on to make sure that the engine does not respond to accidental movements of the throttle stick, especially when carrying the model to the launch pad.

When Flying.

Do not fly your $\times_{\text{TREME}}^{90}$ near to any houses, high voltage wires or busy roads.

Be sure to fly within the range of your radio.

Always keep your eyes on your model when flying, it can change attitude or get out of sight in a very short time. Never hover with the rotor at eye level. Be sure to keep the model at a safe height and altitude. If you feel that something is wrong with your model while flying, land it immediately and check it over. Do not take any chances.

After Flight

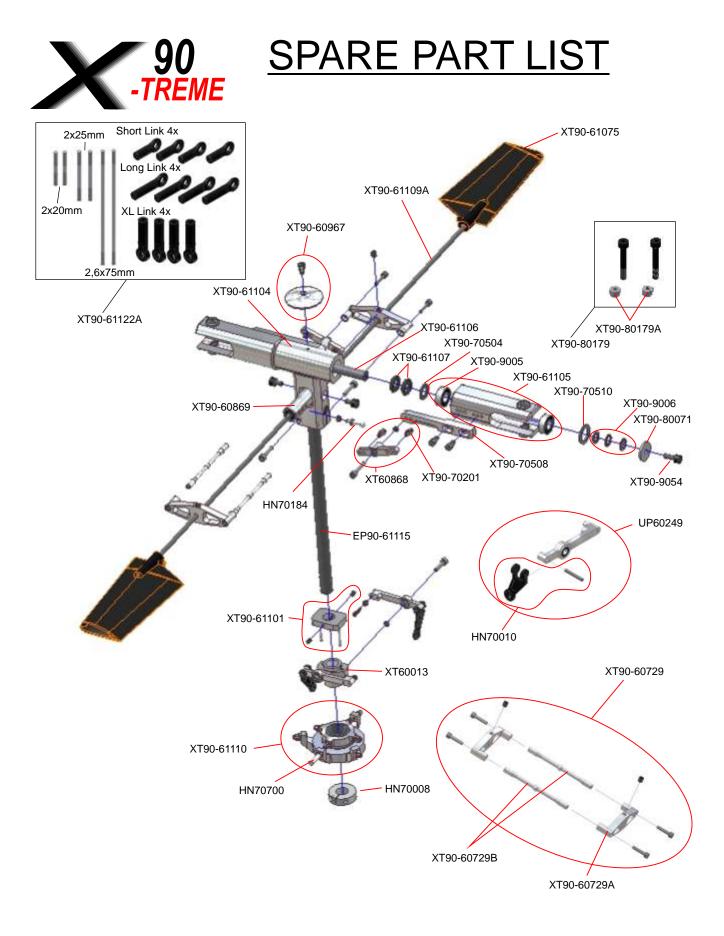
When the rotor speed has slowed sufficiently, use the palm of your hand on the head button to bring it to a stop. Check to ensure that nothing has come loose.

If the main rotor or other parts have made contact with the ground do not take any chances. Replace them before the next flight even they look to be in good condition.

Make sure the receiver, battery and gyro are still secure.

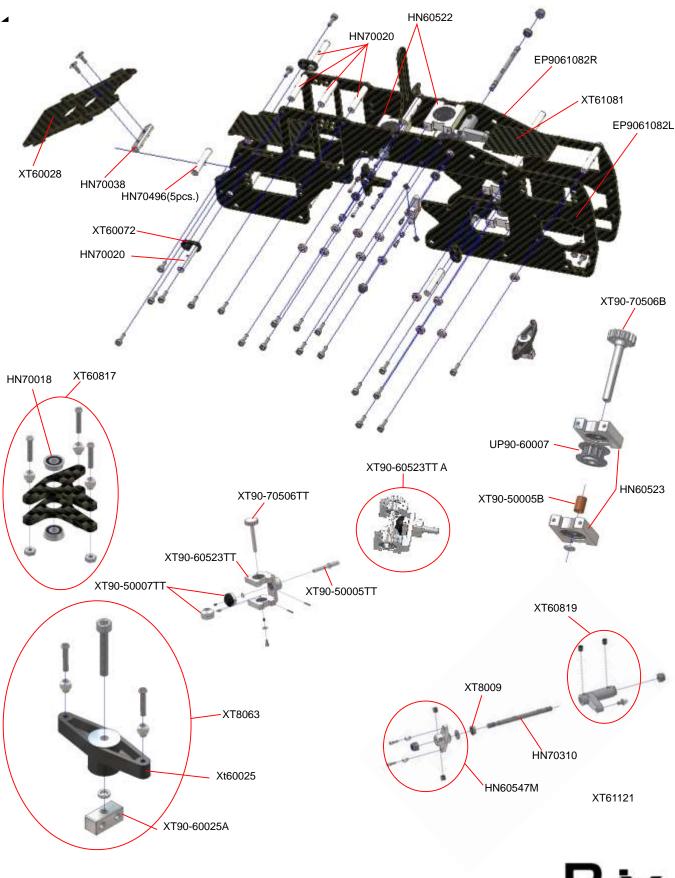
Make a periodical check of the Helicopter to make sure there is no damage or loose screws. Also check fuel tubing in both tank's. Check all bearings to ensure they are working smooth, they can cause glitches if they are damaged.







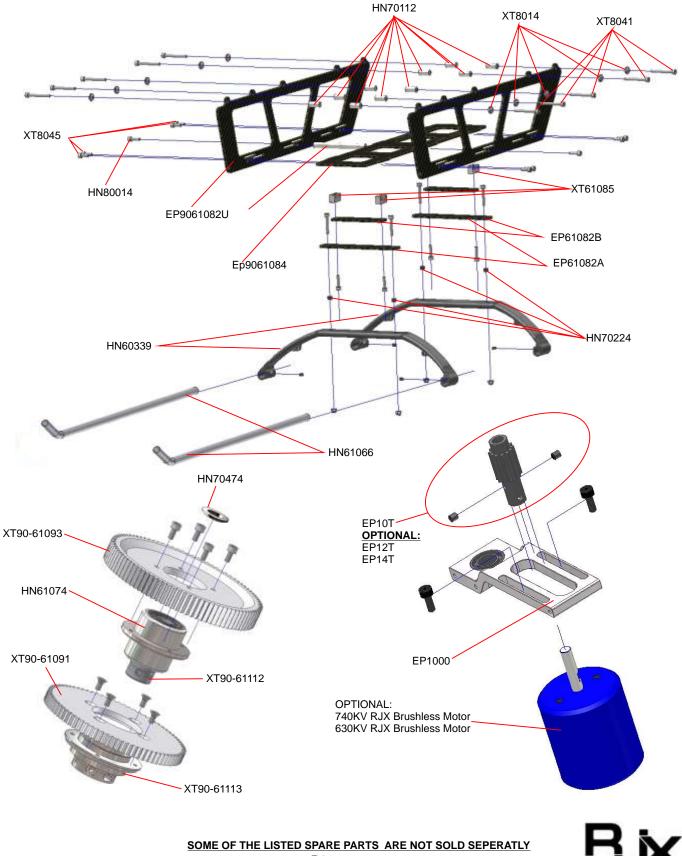




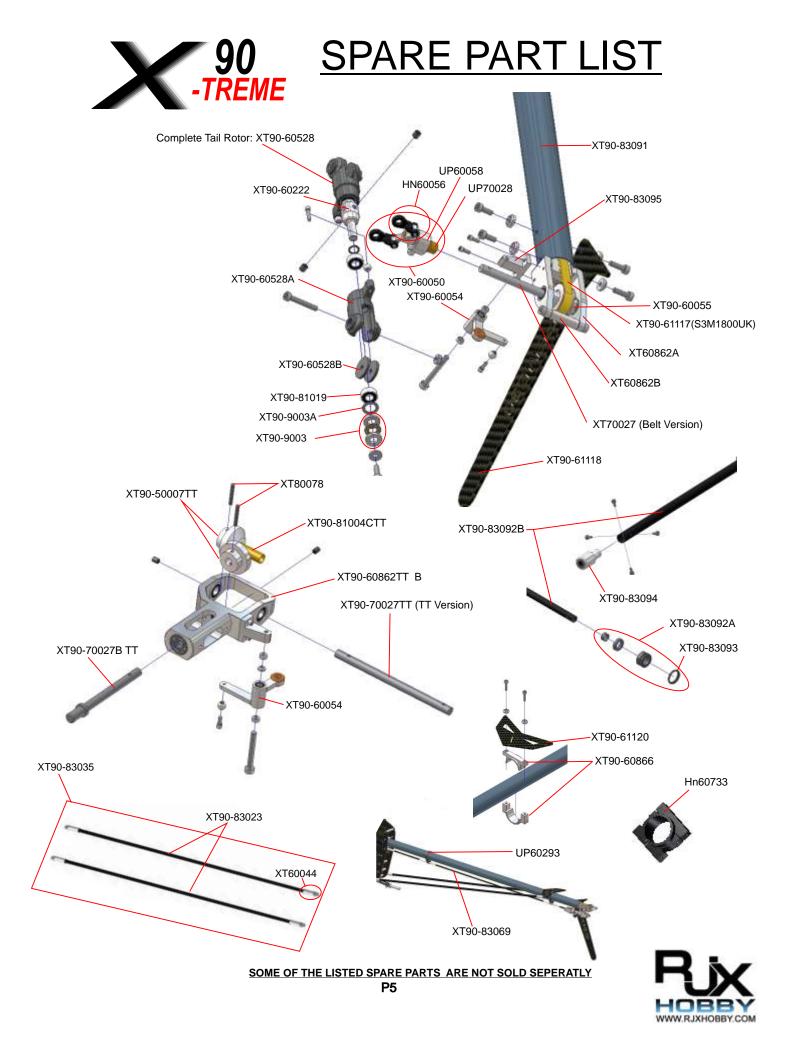
SOMMED OF FILLE IS SET ELS BRAR P.RARS SAAR NOD SOD IS SEPERALLY

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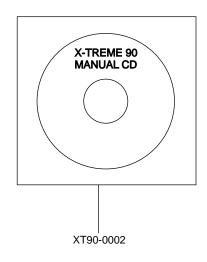






XT90-82276Y = Yellow

XT90-82276O = Orange







SPARE PART LIST

Screws:

SCREW HS M4X20 FOR ENGINE MOUNT XT90-9033 SCREW HS_M5X12 FOR SPINDLE XT90-9034 SCREW HS_M5X34 FOR MAIN BLADES HOLDER (SPECIALLY) XT90-9035 SCREW HS_M2.5X12 FOR FLYBAR CONTROL ARM XT90-9036 SCREW HS_M4X40 SPECIALLY (FOR RJX90 MUFFLER AND HATORI) SCREW HS_M4X6 FOR CENTER HUB XT90-9037 XT90-9038 SCREW HS_M4X8 FOR CENTER HUB / AUTOSHAFT SCREW HS-M4X16 FOR ENGINE MOUNT XT90-9039 XT90-9040 SCREW HS M3X8 SCREW HS_M3X10 XT90-9041 XT90-9042 SCREW HS_M3X12 XT90-9043 SCREW HS M3X14 XT90-9044 SCREW HS_M3X40 XT90-9045 SCREW HS_M3X6 SCREW HS_M2.5X4 XT90-9046 XT90-9047 SCREW HS M3X20 XT90-9048 SCREW HS_M2X8 XT90-9049 SCREW HS_M2X10 XT90-9050 SCREW HS_M2.5X10 XT90-9051 SCREW HS_M2X6 XT90-9052 SCREW HS_M3X16 XT90-9053 SCREW HS M3X25 XT90-9054 SCREW HS M4X10 XT90-9055 SCREW HS_M4X6 FOR CENTER HUB SCREW HS_M2.5X6 (WHITE) XT90-9056 XT90-9057 SCREW HS_M2X6 (WHITE) XT90-9058 SCREW HS_M3X12(WHITE) XT90-9059 SCREW HS_M2X5 (WHITE) XT90-9060 SCREW HS M2X8(WHITE) SCREW HS_M3X25 (WHITE) XT90-9061 XT90-9062 SCREW HS_M3X8(WHITE) XT90-9063 SCREW HS_M2.5X12 (WHITE) XT90-9064 SCREW HS_M3X6(WHITE) XT90-9065 SCREW HS_M3X10(WHITE) XT90-9066 SCREW HS_M3X16(WHITE) XT90-9067 SET SCREW M3X5 XT90-9068 SET SCREW M3X3 XT90-9069 SET SCREW M4X4 XT90-9070 SET SCREW M3X4 XT90-9071 NYLON WASHER 5X8X0.2 FOR TORQUE TUBE (FOR ALL HELIS) XT90-9072 WASHER 5X6.5X1 FOR FRONT TAIL GEAR BOX XT90-9073 WASHER 3X8X1 XT90-9074 WASHER 3X5X2 XT90-9075 WASHER 4X6X1 WASHER_2.6X7X0.8 XT90-9076 WASHER 4X6X4 XT90-9077 WASHER 3X5X1 XT90-9078 XT90-9079 4mm SPRING WASHER M4 (FOR ENGINE) XT90-9080 SCREW HS_M2.6X12 (FOR SERVO) XT90-9081 SERVO LINE (1METER) ASSY XT90-9082 NUT M2 XT90-9083 Xt90 ALL SCREWS

SOME OF THE LISTED SPARE PARTS ARE NOT SOLD SEPERATLY

