

**TRON**  
PERFORMANCE HELICOPTER 7.0

**ELITE**

## Safety notice

*Operate the helicopter in open areas with no people nearby.*

*Follow your country's air regulation rules.*

*You may need to join a local club and become a member before flying the model.*

*Do NOT operate the helicopter in the following places and situations, as you risk injury or death: In places where children gather or people pass through, in residential areas and parks, indoors and in limited space, in windy weather or when there is rain, snow, fog or other precipitation. If you do not observe these instructions you may be held liable for personal injury or property damage!*

*Always check the R/C system before operating your helicopter.*

*If the model shows irregular behavior, bring the model to a halt immediately and disconnect the batteries. Investigate the reason and fix the problem. Do not operate the model again as long as the problem is not solved, as this may lead to further trouble and unforeseen accidents. In order to prevent accidents and personal injury, be sure to observe the following: Before flying the helicopter, ensure that all screws and bolts are tightened. A single loose screw may cause a major accident.*

*Replace all broken or defective parts with new ones, as damaged parts can lead to crashes. Never approach a spinning rotor. Keep at least 5 meters/yards away from a spinning rotor blades. Do not touch the motor immediately after use. It may be hot enough to cause burns. Perform all necessary maintenance.*

**PRIOR TO ADJUSTING AND OPERATING YOUR MODEL, OBSERVE THE FOLLOWING**

*Operate the helicopter only outdoors and out of people's reach as the main rotor operates at high RPM!*

*Note that a badly assembled or improperly adjusted helicopter is a safety hazard!*

*In the beginning, novice R/C helicopter pilots should always be assisted by an experienced pilot.*

**SAFETY FIRST! ALWAYS.**

Experience the next level of RC helicopter design and performance!



## Features

The new Tron 7.0 Elite high-performance competition 700-class helicopter delivers stunning flight performance.

The Elite is an evolutionary development from the Tron 7 and Tron 7 Advance. „It is not just an upgraded version – it is a completely new design without compromises. An updated and larger rotor head, a new tail transmission and various other changes have found their way into the Elite to deliver you an absolutely precise and agile helicopter.

Excellent stability with bulletproof tail authority.

Last but not least, the take-off weight is once again, second to none!

- CNC Main gear 125 T
- Motor pinion 12T / 13T / 14T / 15T / 16T herringbone.
- Tail maindrive pulley 112 T
- Tail back side pulley 23T / 22T .Tail gear ratio from 4.87 up to 5.09 possible ( 5.09 stock )
- Full-size cyclic servo.
- Motor mounting features a bearing block supported pinion, reducing overall wear on the power system and drive train.
- Compatible with a wide range of motor sizes. 4520- 5050 series. ( 6mm shaft diameter with min 15mm length required )
- Dry weight: 2290 g (incl. battery tray and canopy)
- Supersonic canopy mounts included in kit.
- Colored Tail Fin and Boom
- Heavy duty one way bearing and hub design.
- Octa boom design with oval side shapes,
- Capable to use a wide range of lipo batteries. ( 12S-5000mAh to 6500mAh recommended )
- High visibility canopy for perfect orientation in flight.
- Headspeed range from 1100rpm up to **maximum 2600RPM!**

## About Tron Helicopters

Ricky Yin has been known in the RC helicopter industry for many years, with extensive experience in the development and production of model helicopters. His journey dates back to the early days of Synergy Helicopters, a company he took over in 2010 following the passing of Stephen Fan.

Dario Neuenschwander is a well-respected name in the RC helicopter community, with a long and accomplished career working with some of the most recognized brands in the industry. His contributions include the development and testing of iconic products such as the MSH Protos helicopter series and the renowned MSH Brain FBL unit. Dario also served as a long-time factory pilot and R&D contributor for SpinBlades. In 2017, Dario shifted gears to compete in FPV racing, where he excelled and earned the title of official FPV-FAI World Champion.

Joachim Etter has earned a stellar reputation for his knack for turning visionary product ideas into market successes. With a strong foundation in innovative product design and business strategy, he's worked alongside leading manufacturers to bring bold concepts to life. As the visionary founder and driving force behind Xnova Motors, Joachim was instrumental in shaping the brand's identity and fueling its growth from the very beginning.

**CAUTION:**

This radio controlled helicopter is not a toy.  
The product is not suitable for children under 14 years of age.









**SAFETY PRECAUTIONS:**

This kit includes some preassembled components. Please check for any loose screws and tighten them with thread lock before you proceed with assembly. Use thread lock where required as shown in this manual!

You are responsible for the assembly, operation, maintenance, inspection and adjustment of the model. Before beginning assembly, please read these instructions thoroughly. Check all parts. If you find any defective or missing parts, contact your local dealer.

For the USA market, The Academy of Model Aeronautics (AMA) is a national organization representing modelers in the United States. Please refer to the National Model Aircraft safety code from Academy of Model Aeronautics.

## Tools required

	<p>2 component epoxy</p>
	<p>Loctite 243 / Medium Strength</p>
	<p>Grease</p>
	<p>2* 5.5mm Wrenches for tail shaft nut</p>
	<p>Hex drivers 1.5mm/2mm/2.5mm/3mm/4mm/5mm</p>
	<p>TR501-518 Pair of customized nut wrench for tail shaft assembly. Optionally available at your Dealer.</p>
	<p>Sprag Grease (Isoflex LDS18 Special A)</p>
	<p>Adjustable Wrench</p>
	<p>Canopy Reamer (optional)</p>

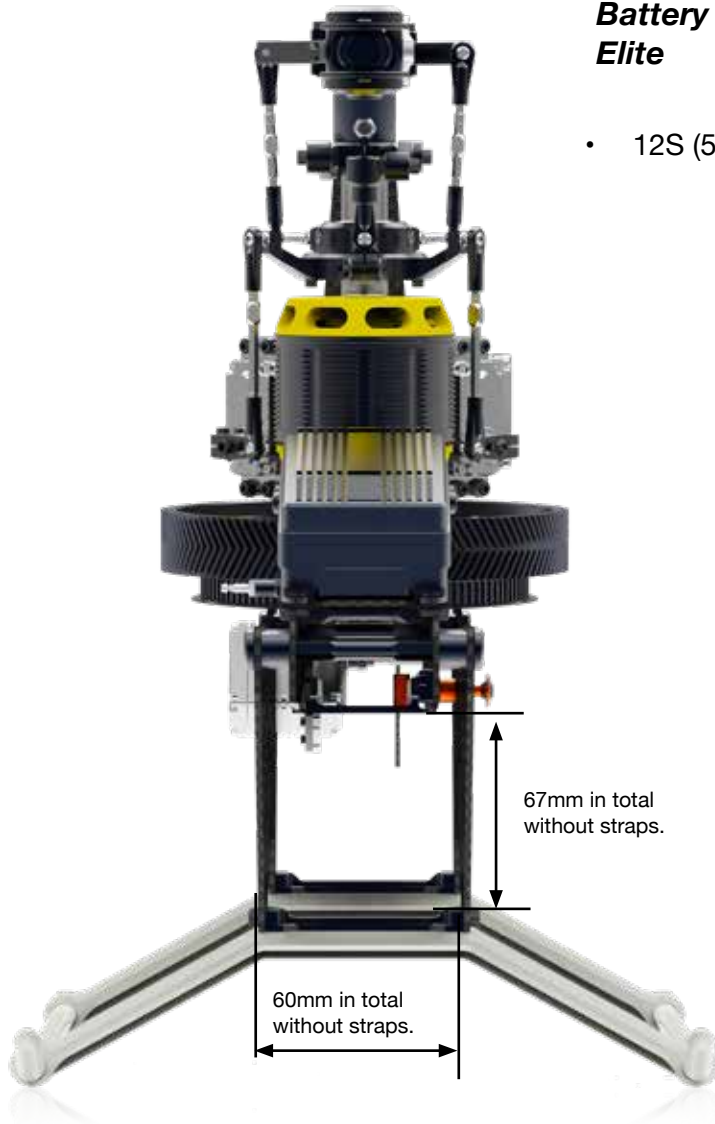
## Electronics required

	3 full size or low profile servos for the swash plate
	1 full size or low profile servo for the tail
	6-12S ESC 180-300A
	Motor: 4520-5050 size
	FBL Unit, such as Brain/iKon, Mikado Neo/Evo, Futaba, Spirit, BeastX, Spektrum or Nexus/RF FBL

## Battery compartment space

### *Battery recommendation for Tron 7.0 Elite*

- 12S (5000-6500mah)



**PLEASE NOTE:  
BATTERY SPACE DIMENSION MAY VARY SLIGHTLY  
AS MANUFACTURERS USE DIFFERENT DESIGNS IN  
CONFIGURATION OF CABLES AND CONNECTORS**

## Information on equipment

Pre-assembled parts streamline the packaging process with less waste and facilitate a quicker build.

This approach ensures assembling the helicopter is fast and straightforward. Additionally, it guarantees a high standard of quality control, ensuring all components fit precisely without any unexpected issues or missing parts.

The provided drawings serve as references for part identification and clarification. Screws requiring checking or loctiting are clearly labeled in the manual. Only remove these designated screws, apply Loctite 243 as instructed, and securely tighten them back into place.

Main blade recommendation (685mm-730mm length).



Tail blade recommendation (105mm-115mm length).



**You will need:**  
Loctite 243 = blue

## Head assembly

The center hub assembly has been pre-assembled and **greased** at the factory.

**Disassembly is not required. Only remove screws add Loctite 243 and screw back in.**

This makes building the helicopter quick and easy. You also benefit from a high level of quality control, ensuring that all parts fit together correctly, with no unpleasant surprises or missing parts.

The following drawings are for reference and parts clarification. We have clearly identified screws that still need to be checked and/or loctited.

Only remove screws labeled in the manual, apply Loctite 243, and screw them back in.

Head dampener set TR730-800



Feathering shaft support Tron7.0 TR703-204

Center hub TR730-001

Feathering shaft Tron7.0 TR702-103

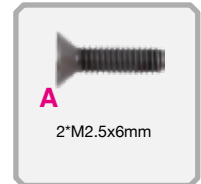


**You will need:**  
Loctite 243 = blue

## Head assembly

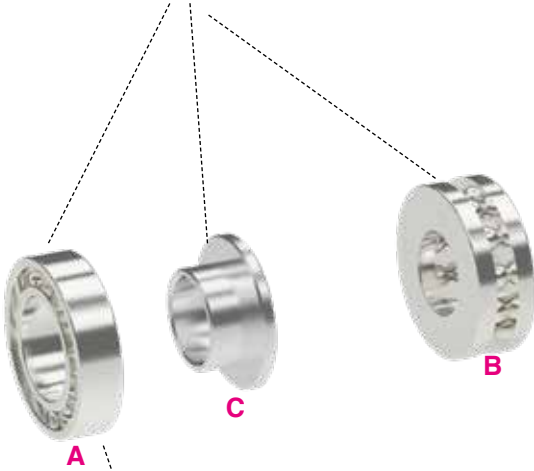


The blade grips have been pre-assembled and filled with grease at the factory. Disassembly is not required. The crash protection screws A has already been Loctited at the



Main Grip bearing set TR730-107 with HQ thrust bearings and shim

TR506-105



Main Grip Bearing TR736-102



**You will need:**

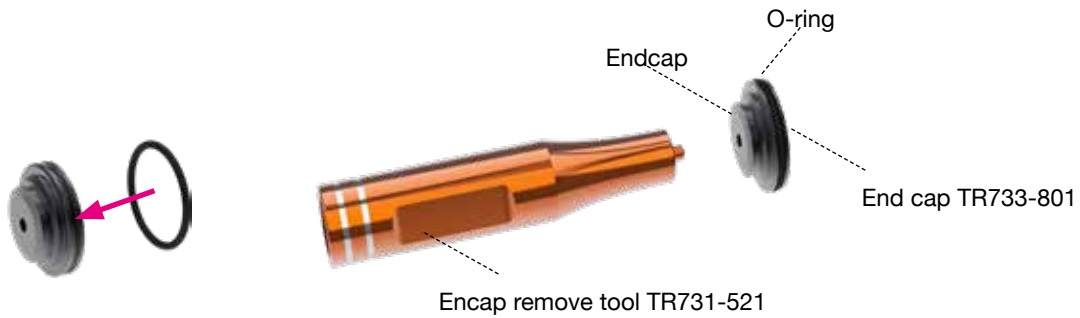
Loctite 243 = blue

## Head assembly

TR702-715 Feathering shaft screws  
Tron7.0



1. The endcap has an O-ring that seals the Bladegrip
2. To mount the assembled cap you have to use a special tool that makes the installation easier. by screwing the endcap on the tool,
3. When mounted on the tool the O-ring should be lubricated for easier assembly



**You will need:**  
Loctite 243 = blue

## Head assembly

The O-ring can get stuck on the edge on both sides, by moving the tool or with a little help with the finger nails the O-ring should get in all the way.

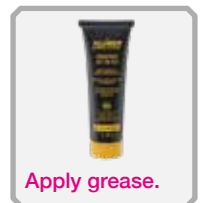


M2 Encap lock Pin TR732-103



Using a special syringe the grease for the thrust bearings can be filled as shown in the picture below. Just press against the grease hole and flush it until you see the grease coming out on the lower side. The screws do not require Loctite.

Syringe TR731-520



**You will need:**  
Loctite 243 = blue

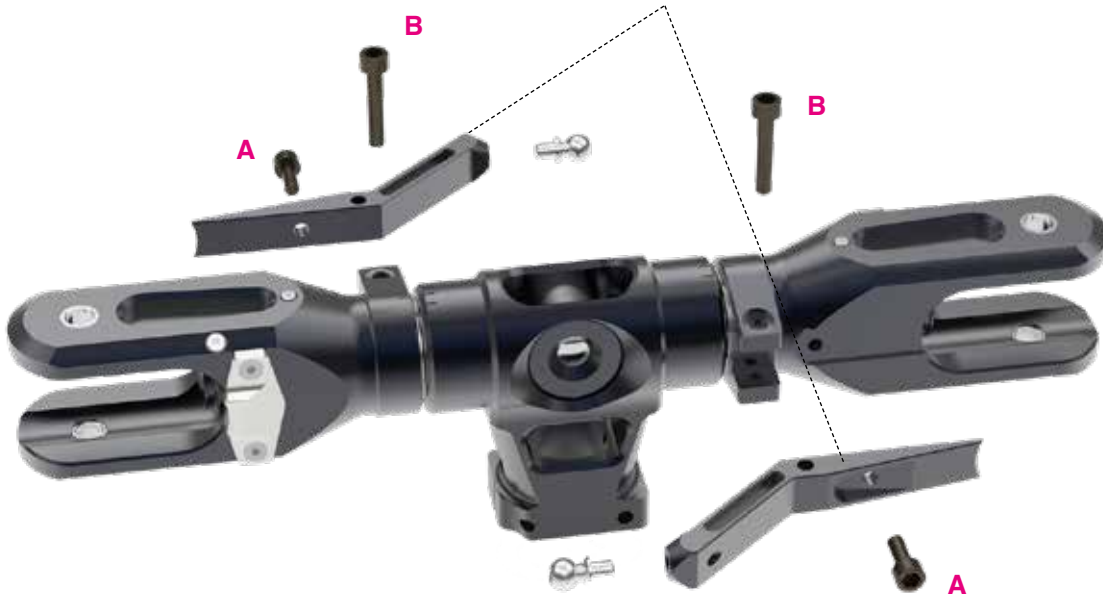
## Head assembly

M2x3 Greasseal screws TR732-102

Do not use any Loctite and use minimal force on those screws!



Main grip arms TR730-003



**You will need:**

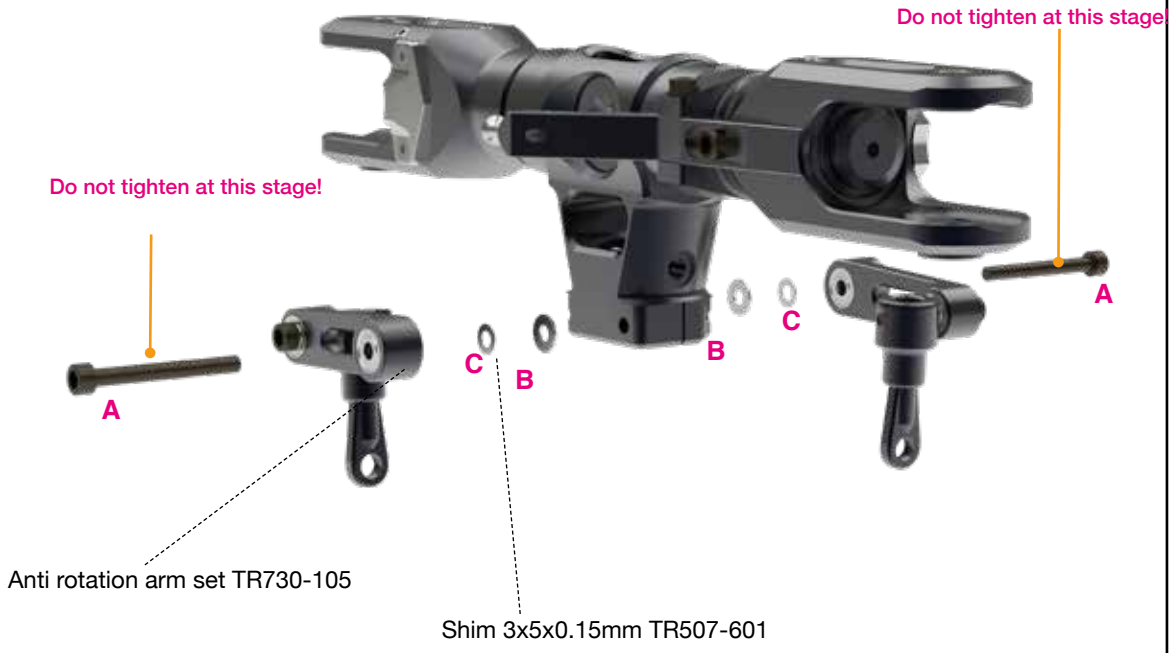
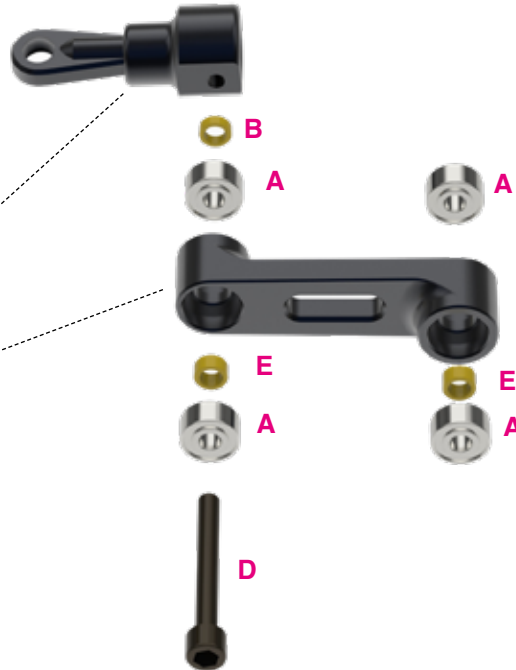
Loctite 243 = blue

## Head assembly

The anti-rotation arms have been pre-assembled at the factory. Disassembly is not required! Only remove screw **D**, apply Loctite 243, and screw it back in.



Anti rotation arm set TR730-105

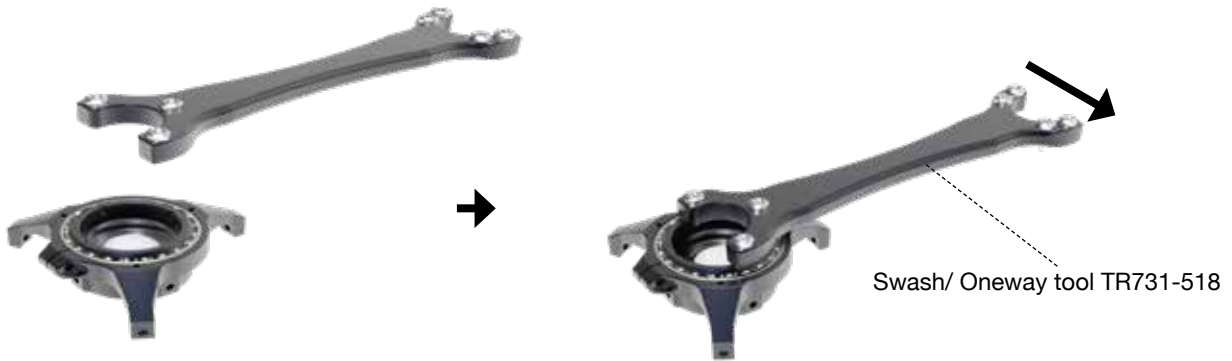


**Important note!**  
Do not tighten the M3\*28mm screws at this stage. Apply Loctite 243 and tighten them after assembling the main shaft to the center hub.

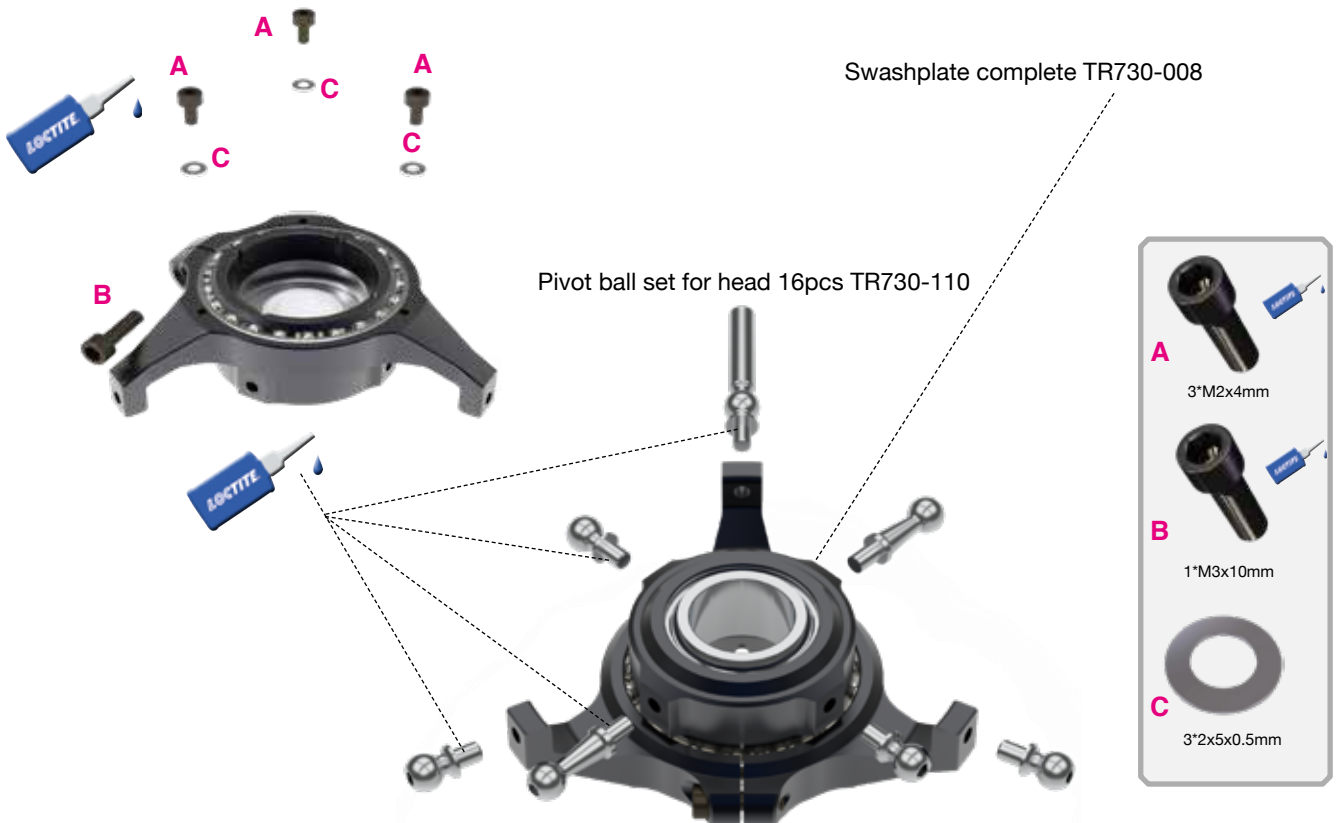
**You will need:**  
Loctite 243 = blue

## Swash assembly

The swashplate is preassembled at the factory.  
Disassembly is not required.  
Only remove screws add Loctite 243 and screw back in.



Please tighten screw A and B with minimal force only! Please use Loctite 243!



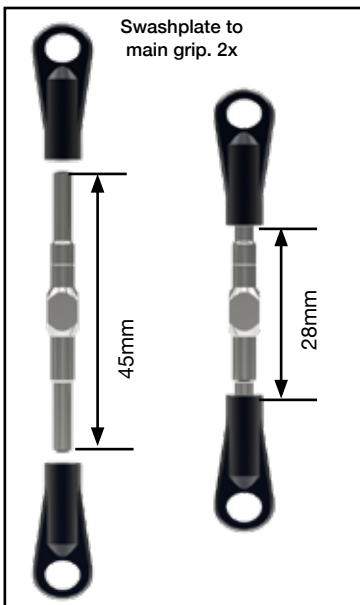
**You will need:**

Loctite 243 = blue

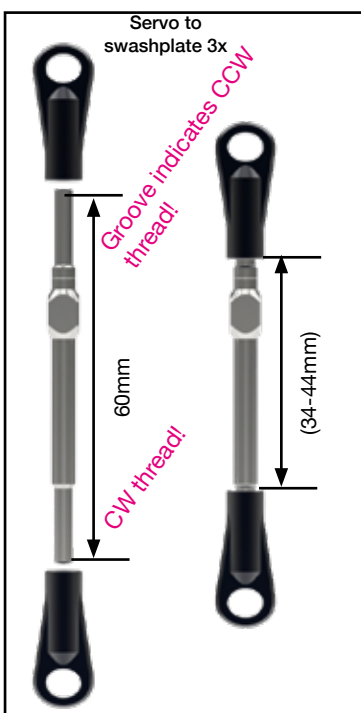
## Head assembly

1. Insert main shaft into center hub first.
2. Tighten screw **B** to lock nut **D**.
3. Tighten the screws **A** = M3x28mm which are shown on page 52 left and right step by step (use Loctite 243). Make sure the shim A does not fall out.

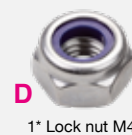
Main grip rood 2,5mm Tron7.0 TR702-245



Linkage rod set 2,5mm TR732-260



**Note:**  
The linkage distance between the servo and swashplate (34mm-44mm) may vary depending on the servo manufacturer and the positioning of the spline.



**You will need:**

Loctite 243 = blue

## Tail assembly

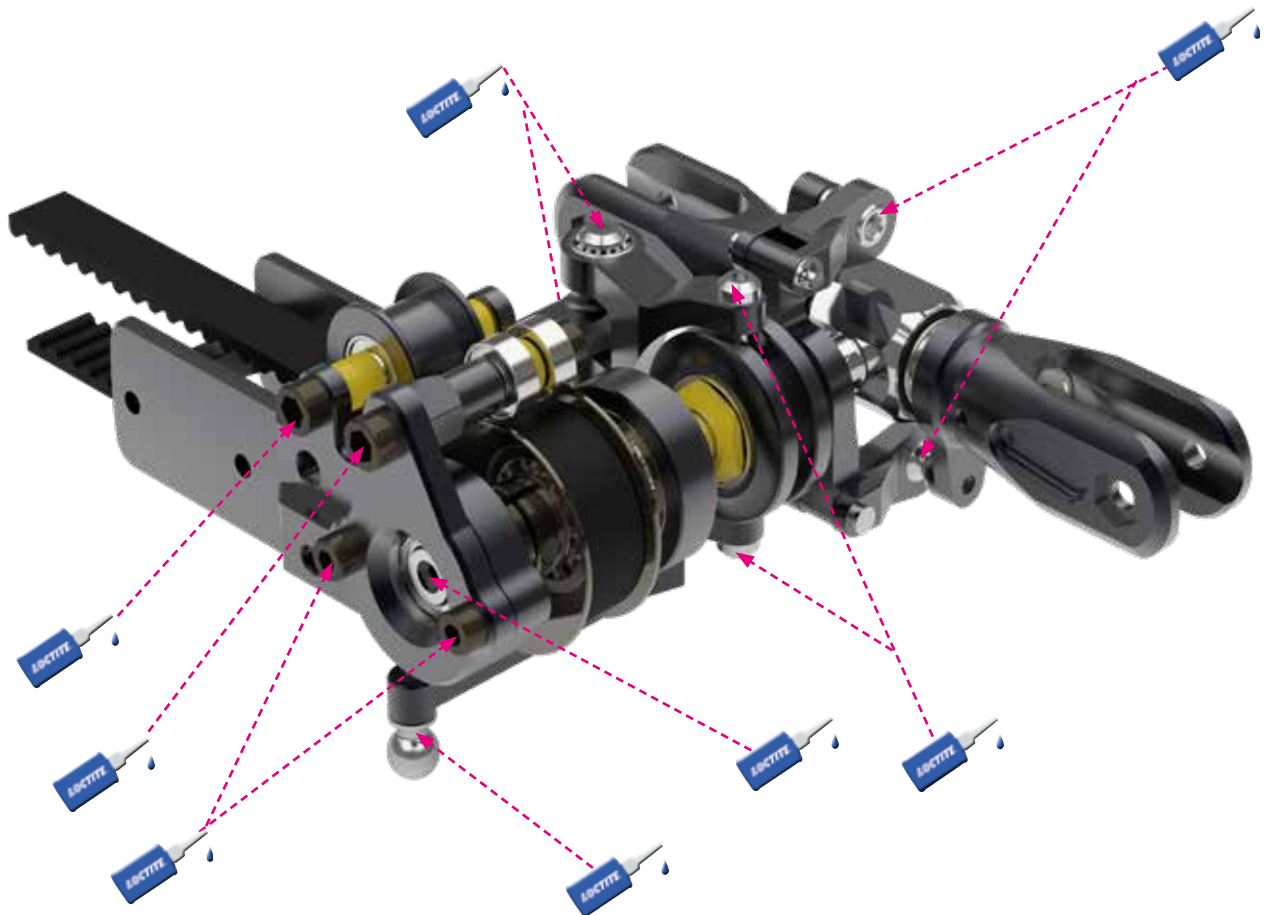
The tail housing assembly has been pre-assembled and greased at the factory.


**Removal of all screws to add thread lock is necessary!**

This makes the helicopter build very quick and easy. You also benefit from a high level of quality control as we ensure all parts fit together correctly, eliminating unpleasant surprises and missing parts.

**The tail thrust bearings have been greased at the factory! If you are building a new kit, it is not necessary to remove the tail blade holders to add grease to the thrust bearings!**

**Pay attention to the two M2.5x8mm (A) screws that hold the tail pitch arm support, as shown on page 18. These screws have to be loctited as well!**



 = Remove screw, add Loctite and screw it back in

**You will need:**

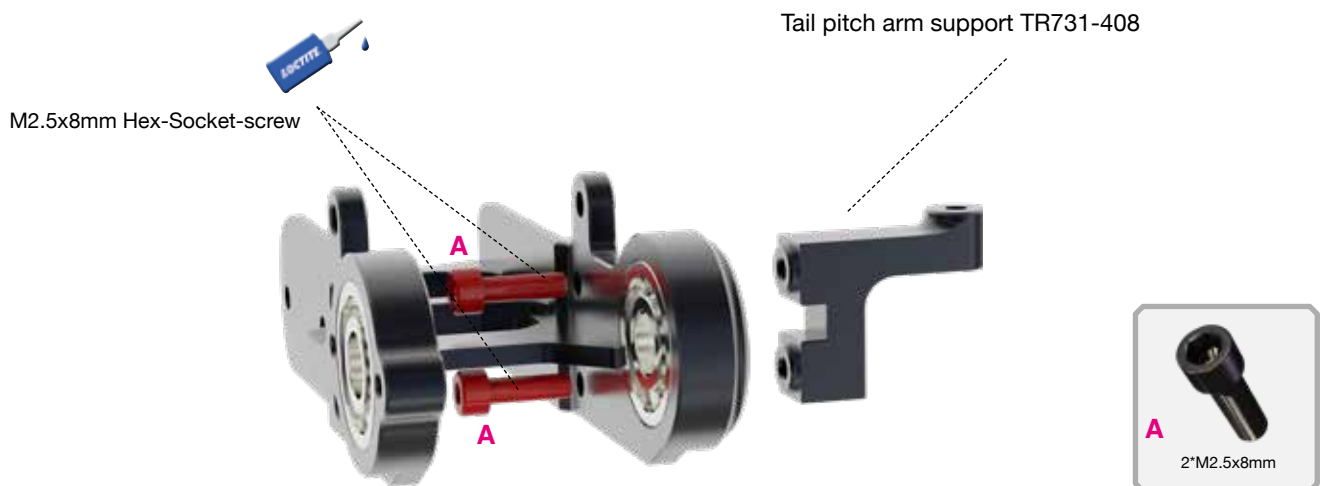
Loctite 243 = blue

## Tail assembly

1. The following drawings showing the tail drive housing are for reference and part identification.
2. Keep in mind that when purchasing spare parts separately, you should add Loctite where specified!



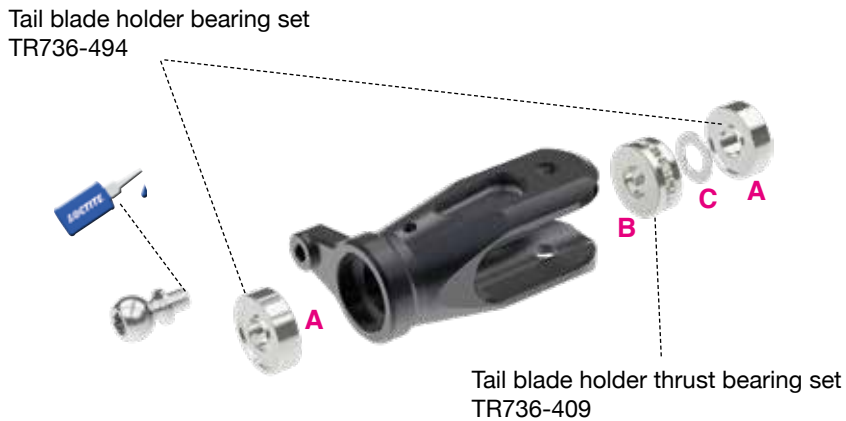
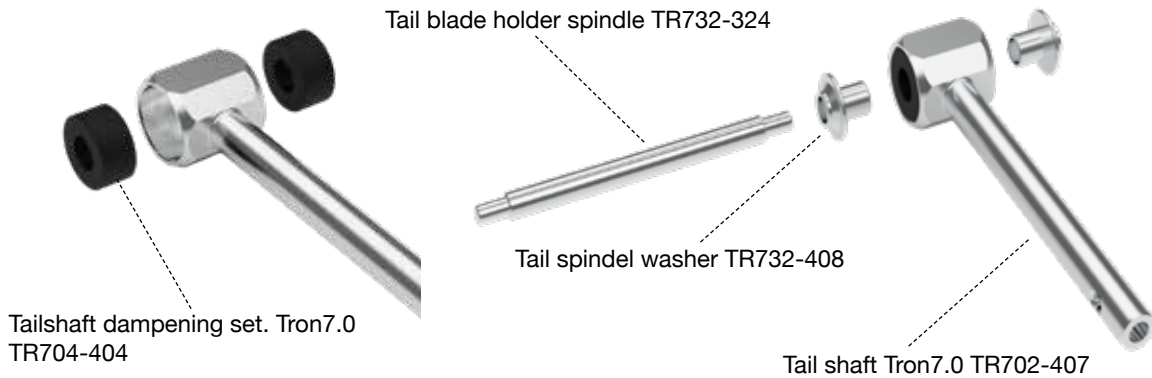
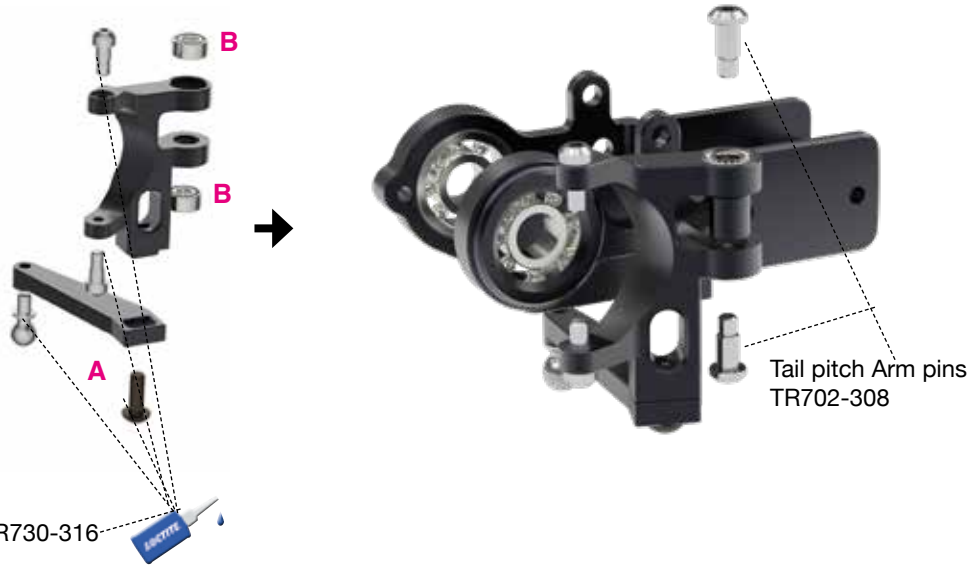
The tail case bearings are assembled at the factory. Disassembly is not required.



Keep in mind that when purchasing spare parts separately, you should apply Loctite where specified!

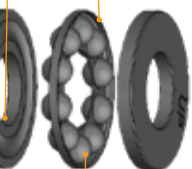
**You will need:**  
Loctite 243 = blue

## Tail assembly



Pay attention to the orientation of the ball cage.

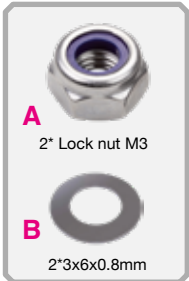
Inner hole bigger.



Apply grease. 

**You will need:**  
Loctite 243 = blue

## Tail assembly



Tail blade holder set complete  
TR730-525



Wrench size for nut B = 5.5mm. Outer diameter should not exceed 9.2mm and min. 20mm length required.  
Optional ( TR:501-518 )



The tail pitch slider is assembled at the factory.  
Disassembly is not required.



.....Tail pitch slider assemble TR730-428

The tail pitch slider is assembled at the factory.  
Disassembly is not required.

Tail pitch links. TR550-322

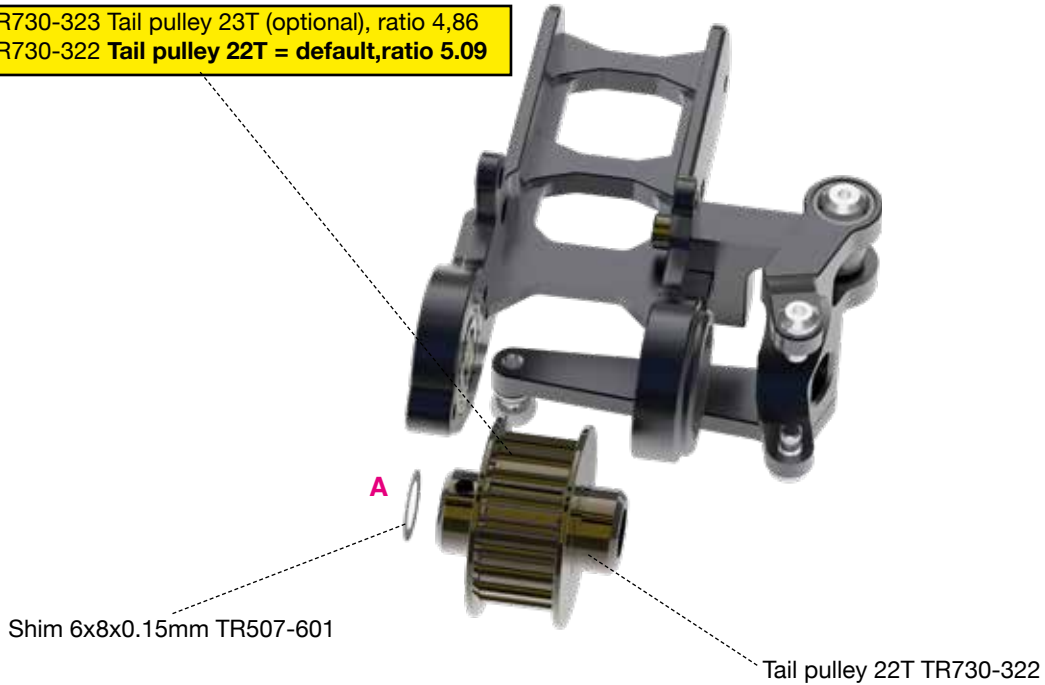
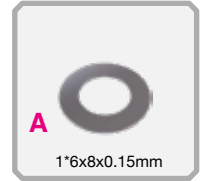


**You will need:**

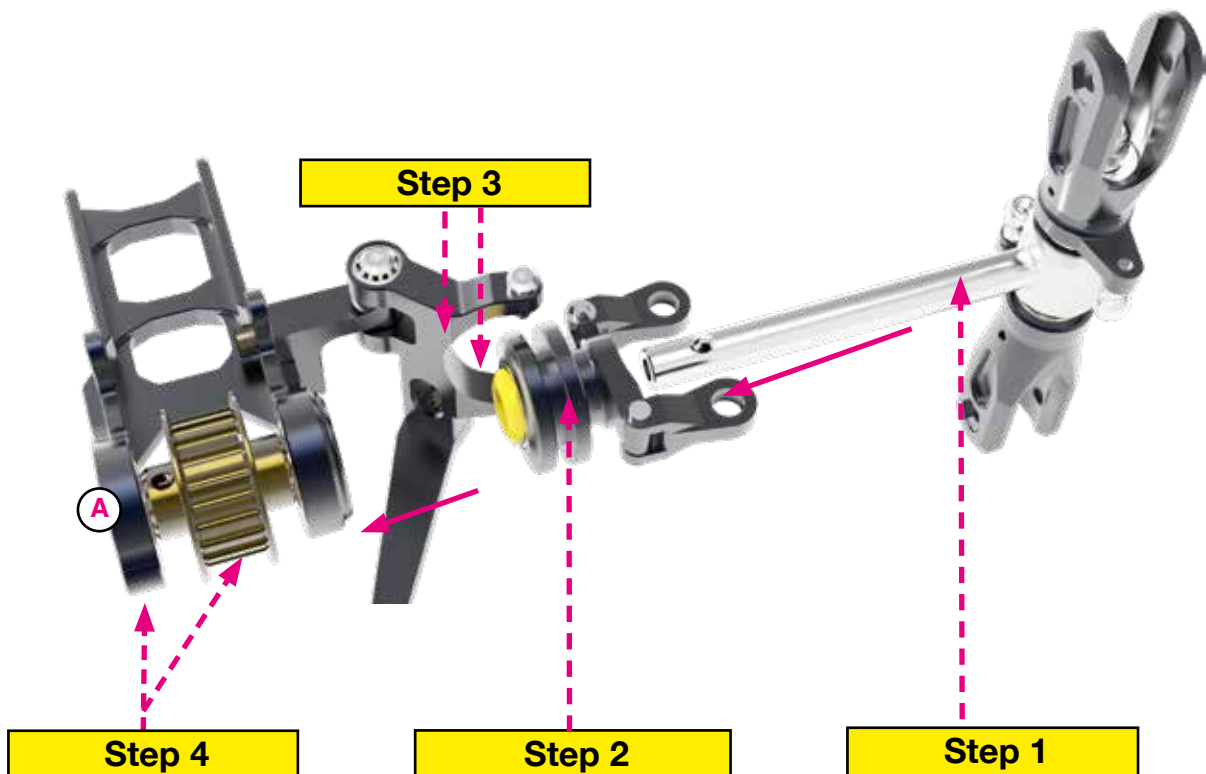
Loctite 243 = blue

## Tail assembly

TR730-323 Tail pulley 23T (optional), ratio 4,86  
TR730-322 Tail pulley 22T = default, ratio 5.09



1. Insert the tail shaft (Step 1) into the tail pitch slider (Step 2). Ensure the pulley aligns with the pitch pins (Step 3) then slide the tail shaft into the tail housing bearings, tail shaft collar, tail pulley, and the shim (A) (Step 4).

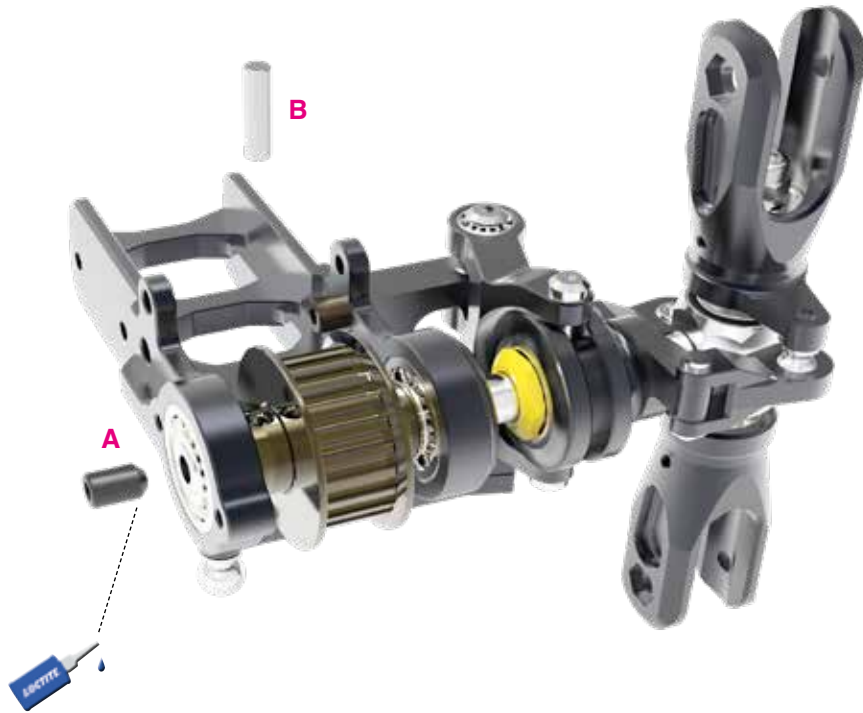


**You will need:**

Loctite 243 = blue

## Tail assembly

1. Align the hole on the tail shaft with the hole on the tail pulley.
2. Insert the pin into the hole
3. Tighten the set screw that holds the pin in place as much as possible and apply Loctite 243



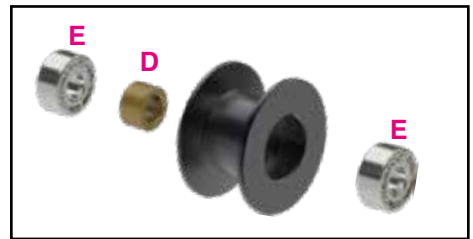
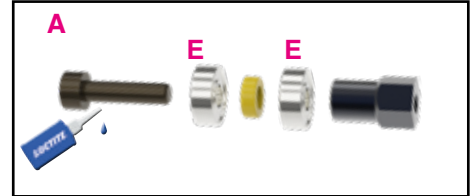
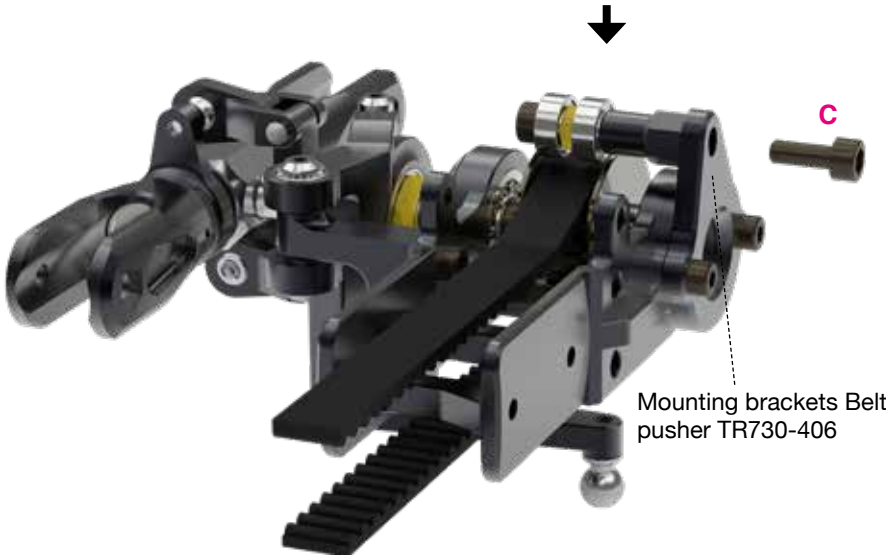
1. Install the tail belt and the belt pusher mounting bracket



**You will need:**

Loctite 243 = blue

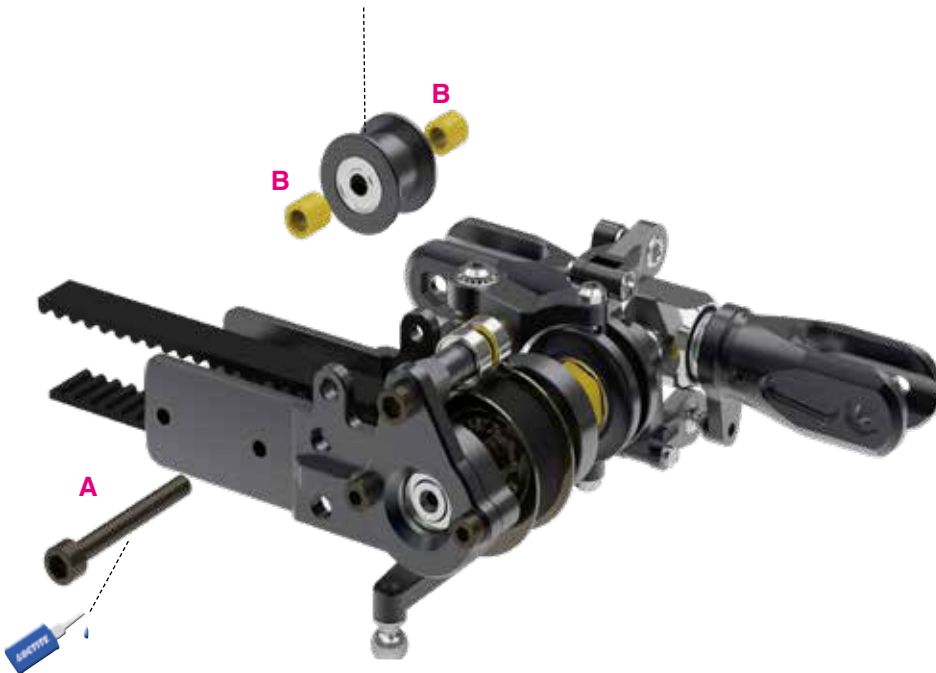
## Tail assembly



Adjust the belt pusher so that its not touching the belt. It should stay slightly above the belt



Tail Idler pulleys TR730-402



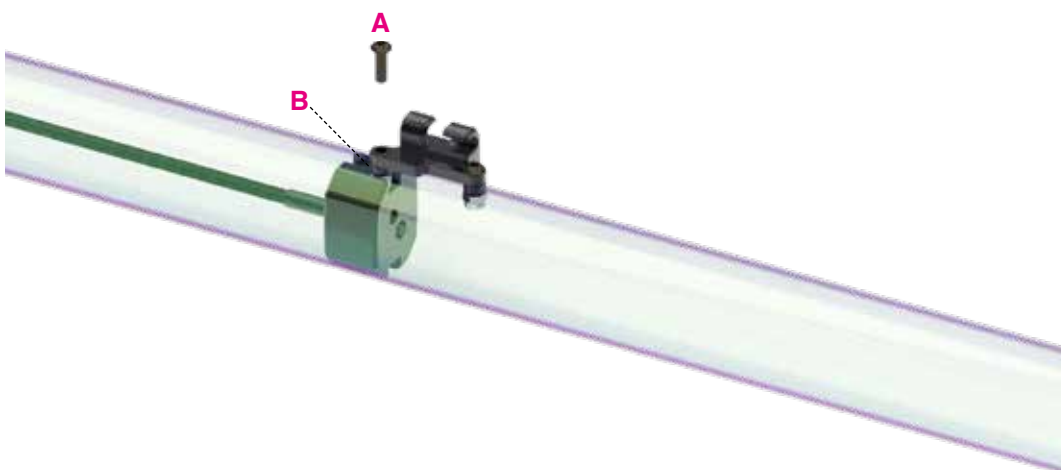
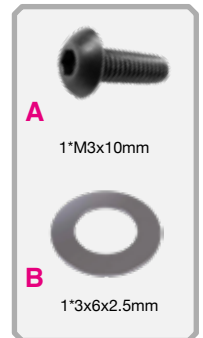
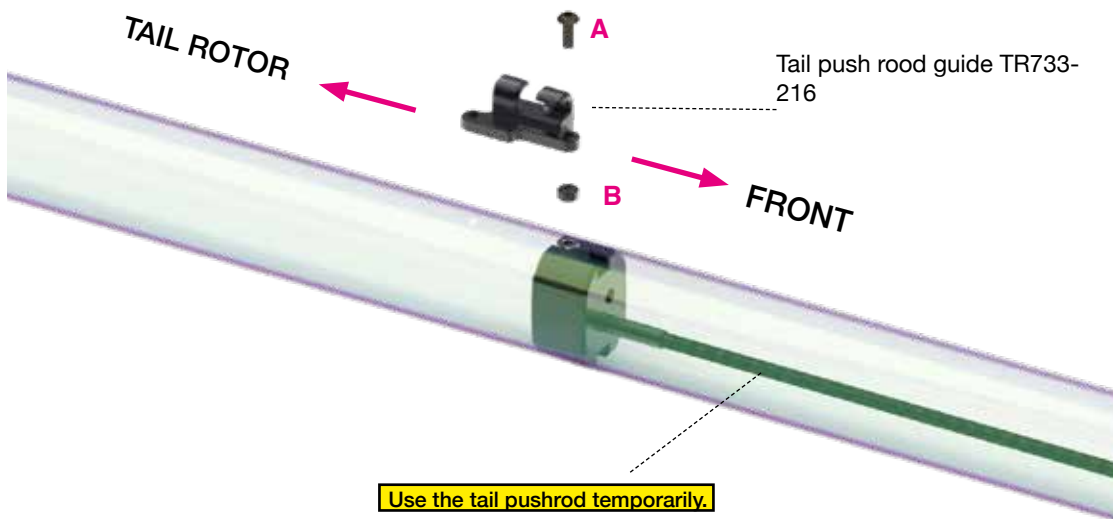
## Boom assembly



TR704-501 tail p.r.a tool for Tron 7.0/Advance/Elite



Insert the tail push rod with the nuts facing up into the boom. Ensure that when you tighten the screws for the tail push rod guide, your mounting device faces up as shown in the illustration.



**You will need:**  
2 component epoxy

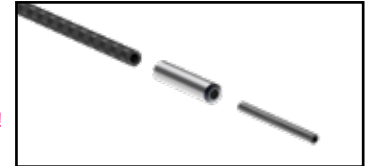
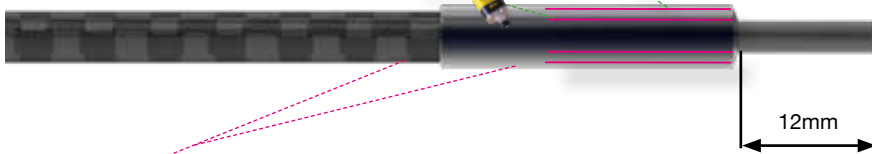
## Tail rod assembly

Apply a two-component epoxy to glue the thread into the tail push rod and the shell on the outside of the rod. This double safety measure ensures that the thread cannot turn if you adjust the ball-link after the assembly has fully hardened.

Apply 2 component epoxy on the outside of the carbon rod.

Apply a two-component epoxy inside the hole of the carbon rod to secure the threaded rod to the carbon rod.

12mm on both sides.  
Use 2 component epoxy!



Ensure the assembly remains stationary while drying. Secure it on both sides to prevent any movement.

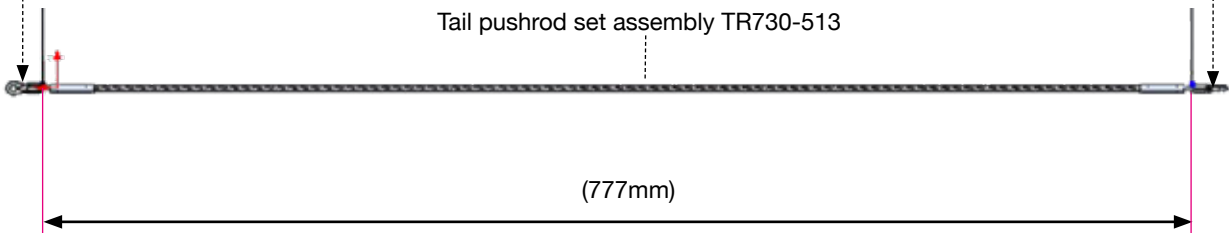


TR704-100 Tron7.0 plastic ball link set 2,5mm



TR704-100 Tron7.0 plastic ball link set 2,5mm

Tail pushrod set assembly TR730-513

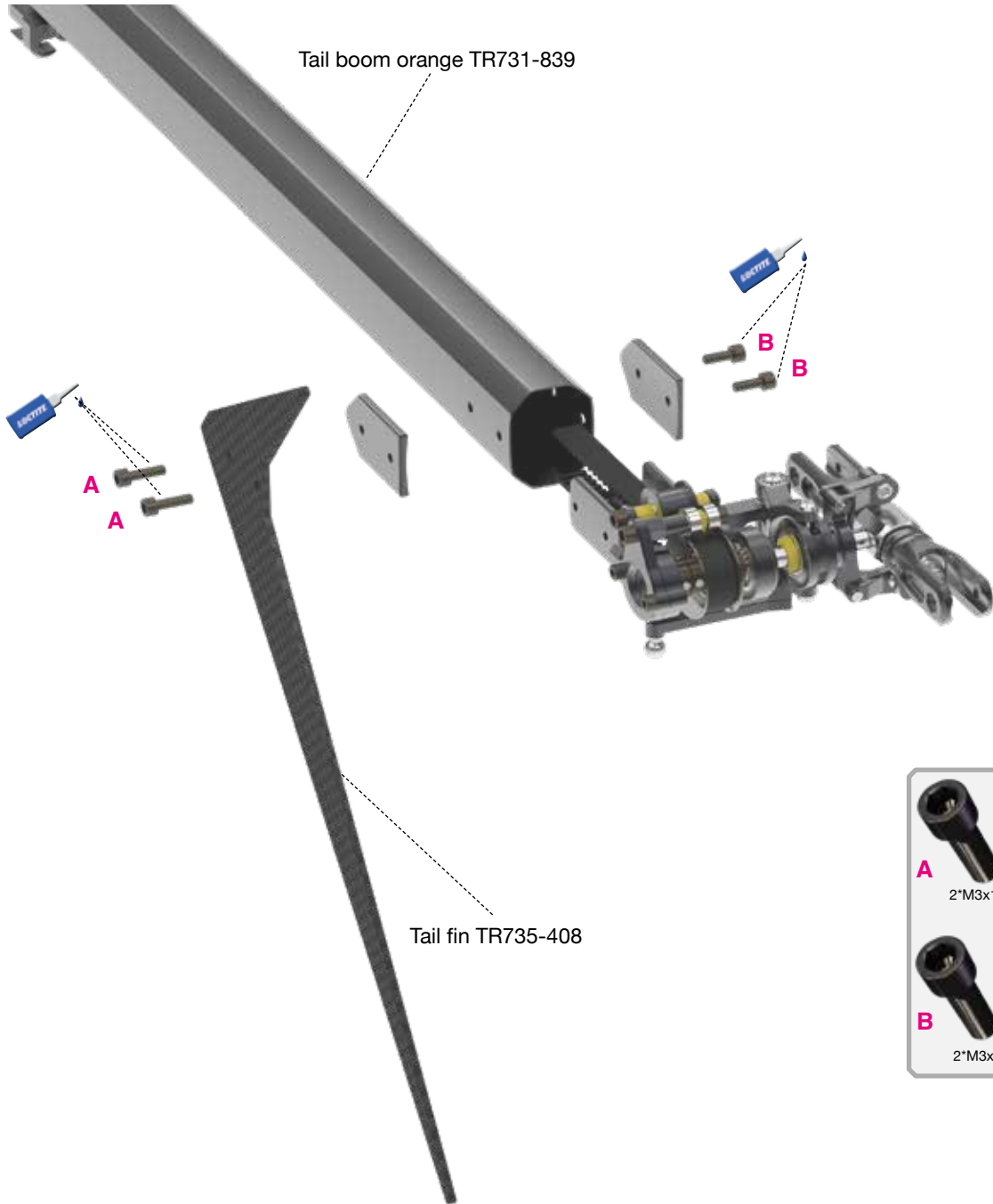


**You will need:**  
Loctite 243 = blue

## Tail box to tail boom assembly

Front (main frame side)

Insert the tail belt through the tail boom until it comes out the other end. Make sure it is not twisted



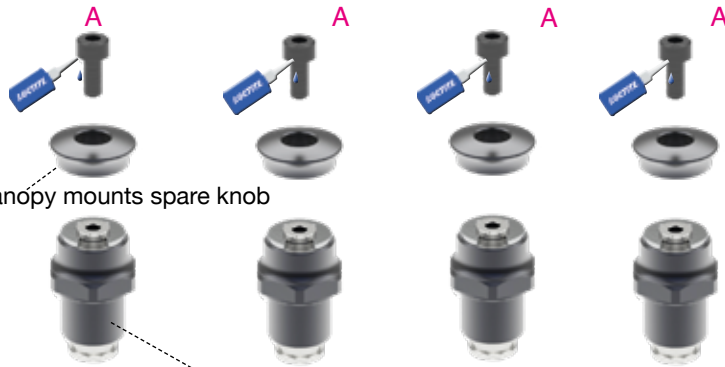
**You will need:**  
Loctite 243 = blue

## Supersonic mounts

Apply Loctite to M2.5X6mm screw !



TR701-180 Supersonic canopy mounts spare knob

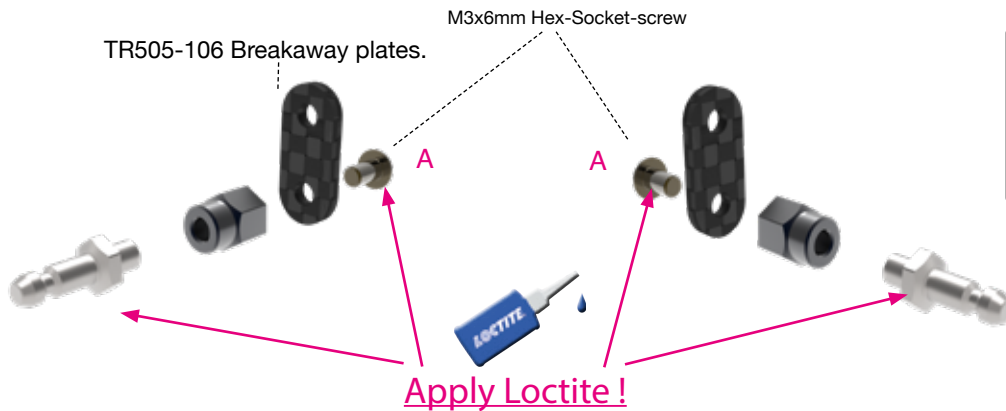


Supersonic canopy mount assembly TR734-245

Apply Loctite !

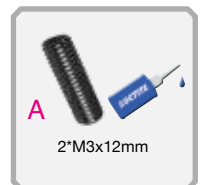
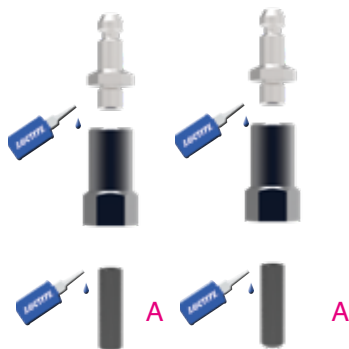


### Rear canopy mounts



Supersonic canopy mount assembly TR734-245

### Front canopy mounts

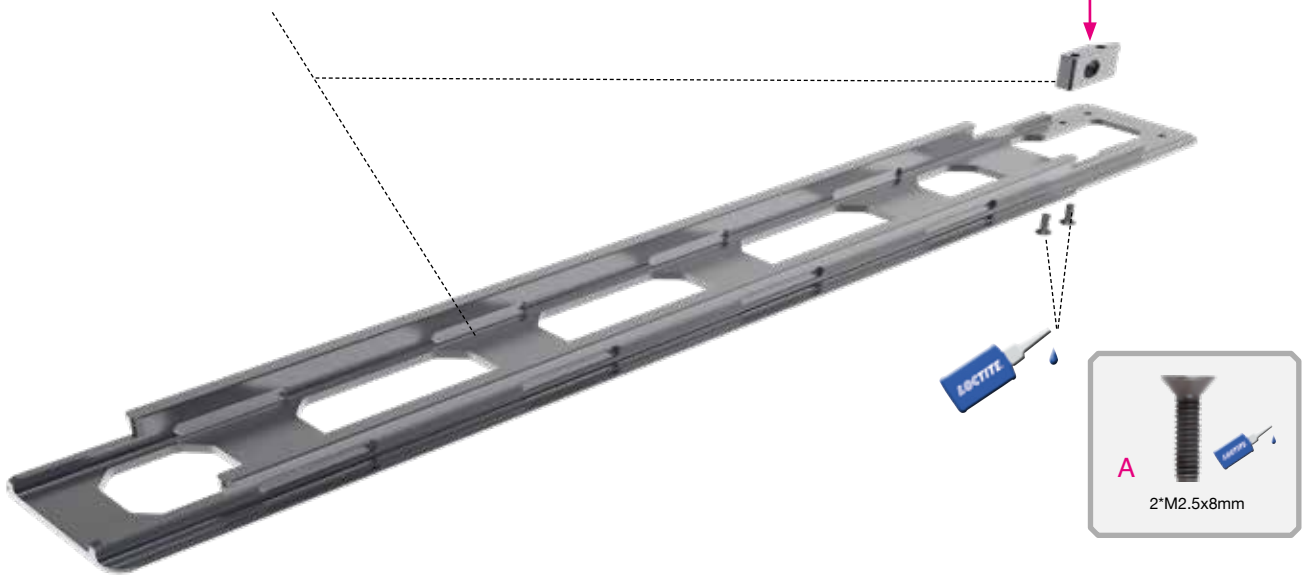


**You will need:**  
Loctite 243 = blue

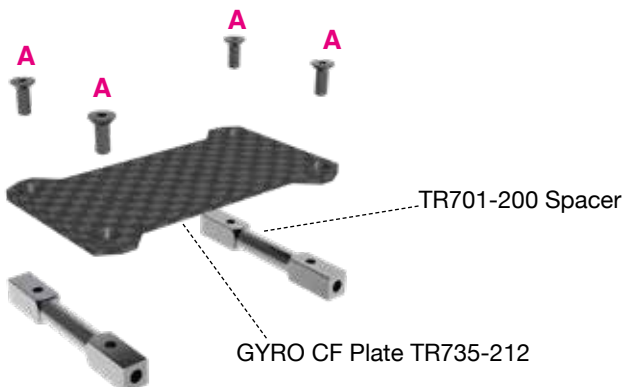
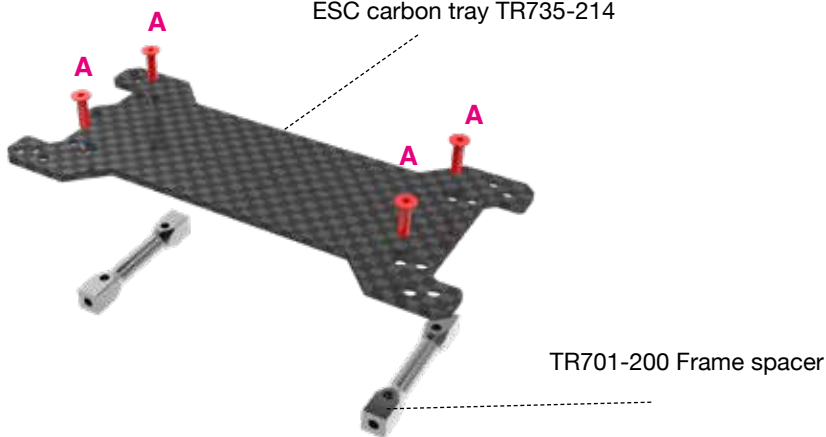
## Battery tray assembly

**!** Please pay attention to the direction and position in which the battery pin lock support is assembled.  
Please see page Nr. 40.

Batterie tray Tron7.0 TR700-711



ESC carbon tray TR735-214

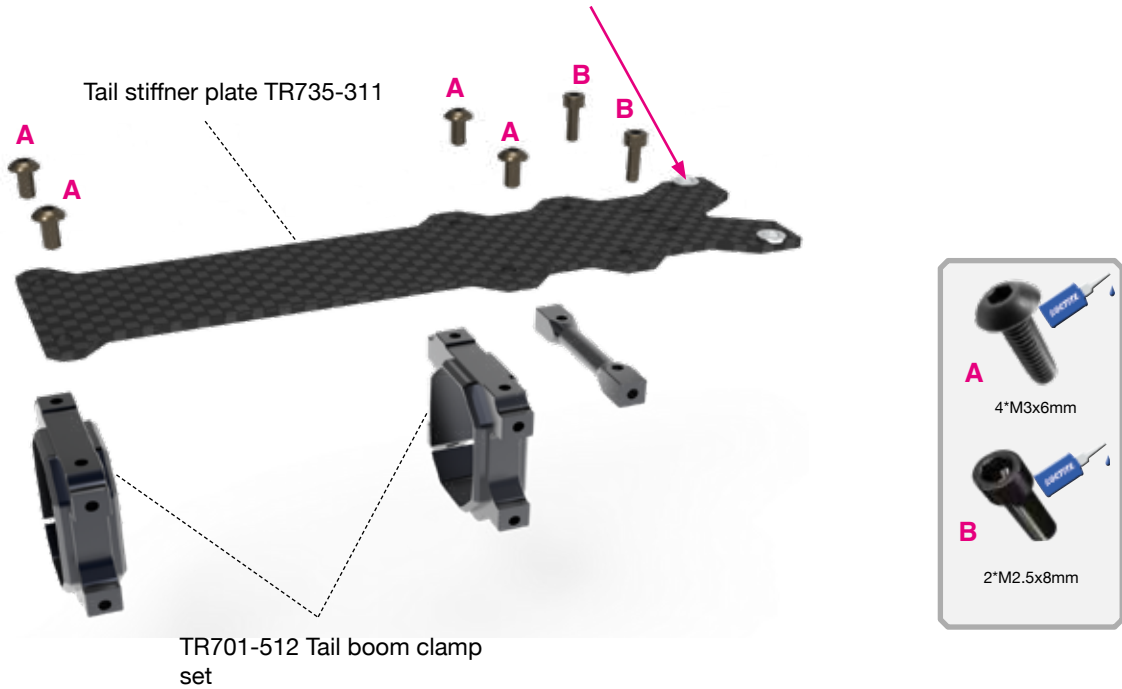


**You will need:**

Loctite 243 = blue

## Upper main frame assembly

Pay attention to the correct orientation!



The belt tensioner has been pre-assembled at the factory. Disassembly is not required! Only remove the screws, apply Loctite 243, and screw it back in.



TBelt tensioner assembly complete TR730-408



**You will need:**

Loctite 243 = blue

## Upper main frame assembly

Do not overtighten the M3x30mm screw (A). Tighten it only lightly to the belt tensioner mount – just enough to hold it in place without play. The screw will stick out on the opposite side of the mount, where it must be finally locked and firmly tightened using the M3 lock nut.



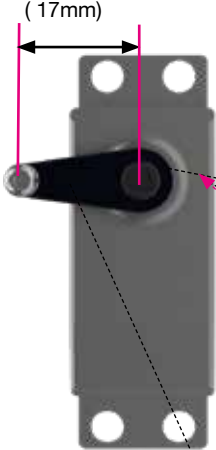
Before assembly make sure the spring sits flush with the arm shown in this picture



**You will need:**  
Loctite 243 = blue

## Cyclic servo preparation

### Elevator servo



( 17mm )


1. Servo horn position at 90 degree and ball link length for **the ELEVATOR SERVO.**
2. Please note: The length of the servo horn ball link may vary slightly depending on the servo manufacturer and the flybarless manufacturer brand.

1\* Nut M2

TR700-112 Pivot steel ball set for servo horns

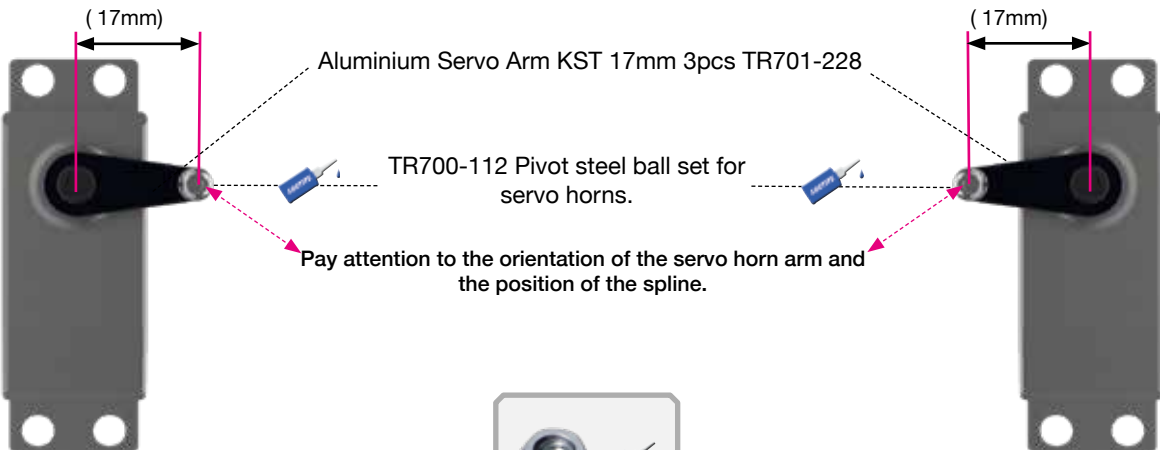
Pay attention to the orientation of the servo horn arm and the position of the spline.

Aluminium Servo Arm KST 17mm 3pcs TR701-228



1\* Nut M2

### Pitch and aileron servo




( 17mm )

Aluminium Servo Arm KST 17mm 3pcs TR701-228

TR700-112 Pivot steel ball set for servo horns.

Pay attention to the orientation of the servo horn arm and the position of the spline.



2\* Nut M2

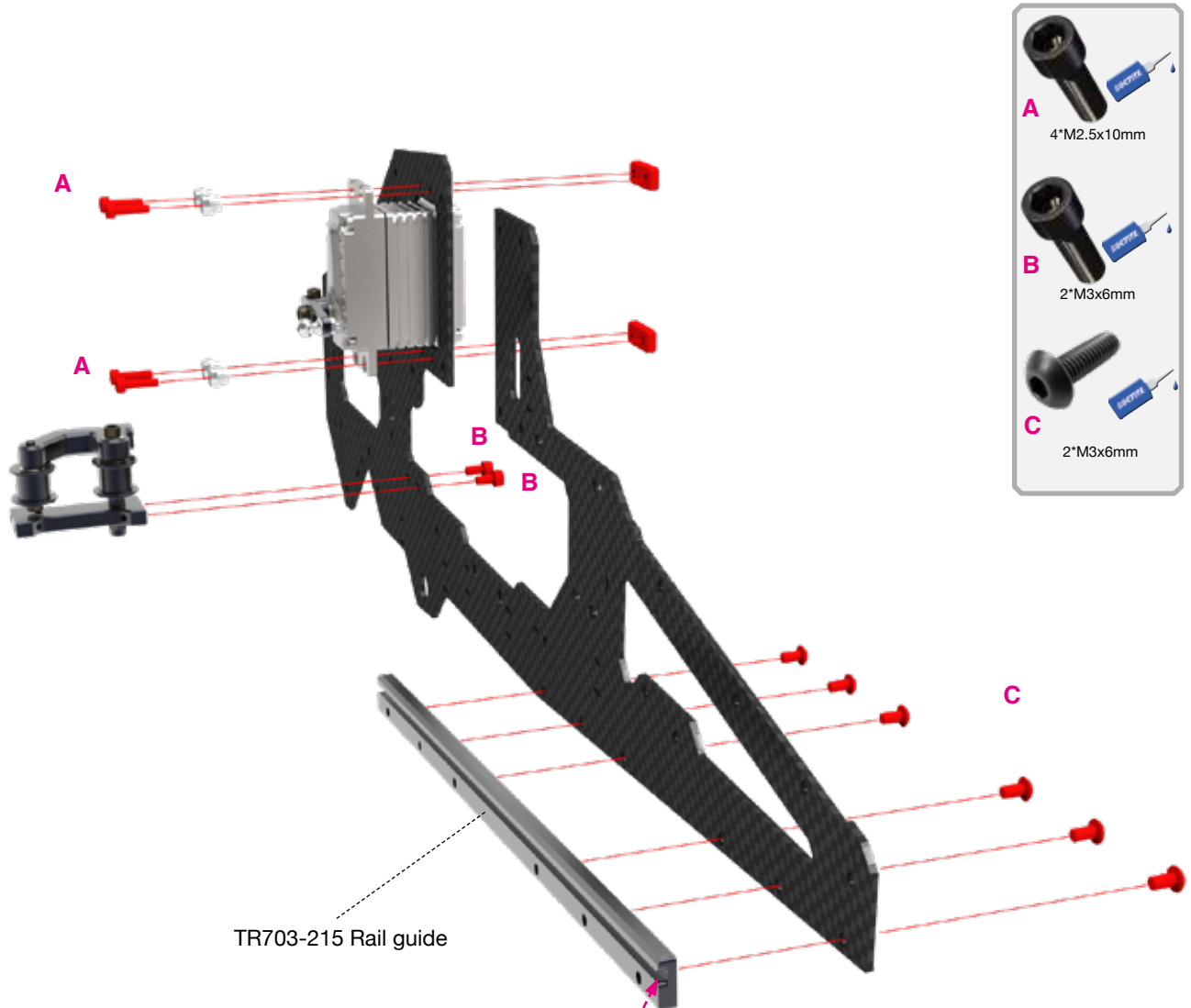
**Right cyclic servo (Nr.3 / v-bar)**

**Left cyclic servo (Nr.2 / v-bar)**

**You will need:**

Loctite 243 = blue

## Upper main frame installation



TR703-215 Rail guide

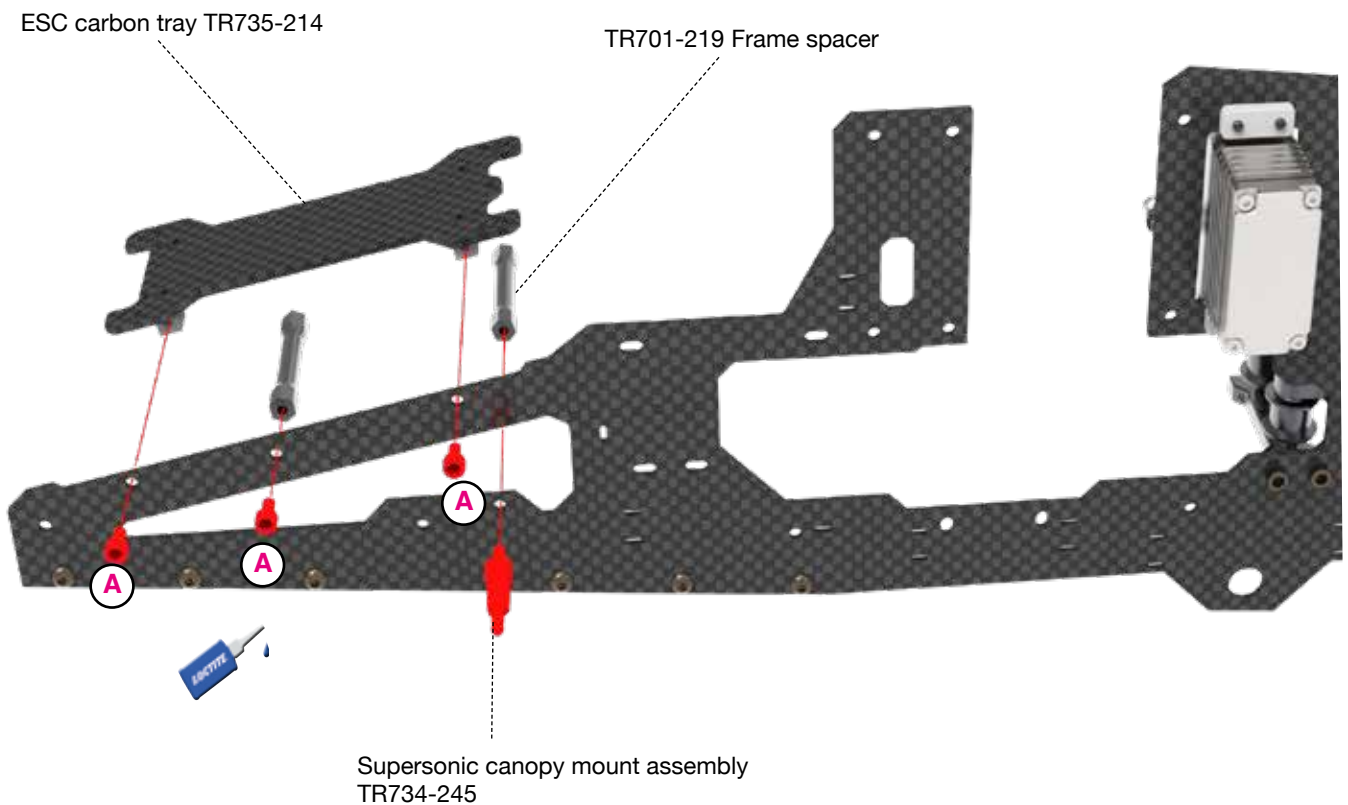
Note the orientation of the rail, which is facing towards the inside and the guide rail is facing upward.

**You will need:**  
Loctite 243 = blue

## Upper main frame assembly

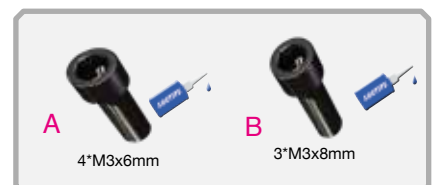
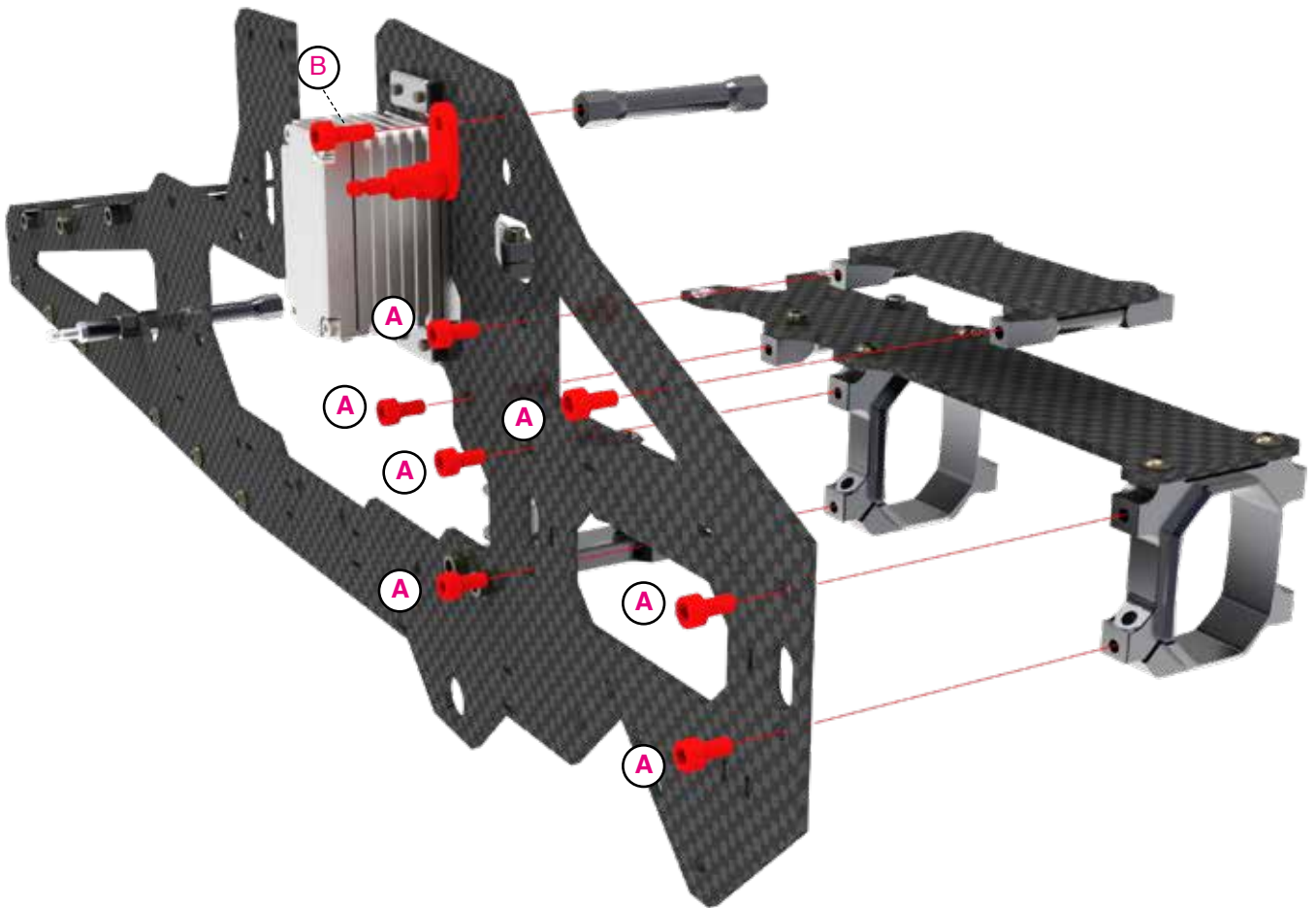
The upper main frame (mini or full-size) can be installed on either the left or right side of the assembly. The mounting side is optional and does not affect performance.  
-For full-size elevator servos, use TR561-124 mounting plates.

The illustration shows the use of a full-size cyclic elevator servo. If using a mini-size elevator servo, select the alternate upper main frame with a smaller cutout designed for the mini servo.



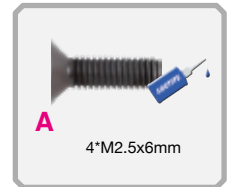
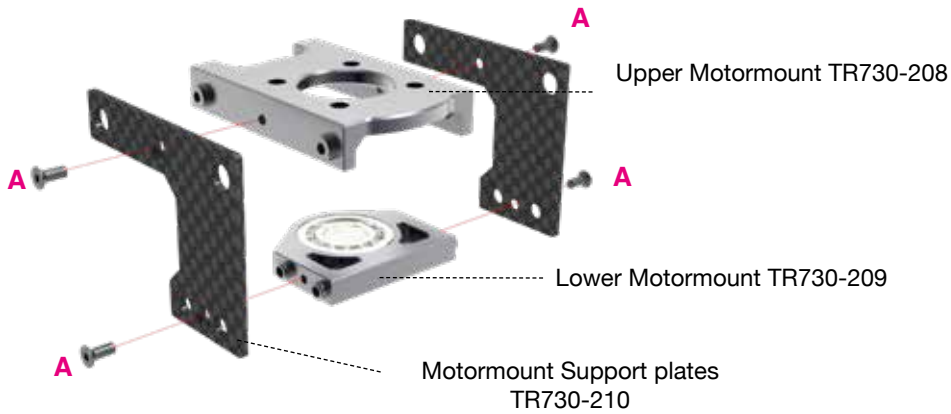
**You will need:**  
Loctite 243 = blue

## Upper main frame assembly



**You will need:**  
Loctite 243 = blue

## Motormount and pinion



**You will need:**

Loctite 243 = blue

## Motor installation

**Tech Tip – Pinion and motor installation**

1. Insert the pinion into the motor mount support, passing it through the bearing.
2. Apply a thin layer of thread locker (e.g., Loctite) to the pinion shaft and secure it using the provided nut.
3. Mount the motor to the support using the designated A-type screws. Ensure the motor cable exits on the correct (right-hand) side.
4. Align the pinion set screw with the flat spot on the motor shaft. Apply thread locker to the set screw and tighten it securely.
5. Once the motor is properly mounted, re-tighten the pinion nut slightly. This step is easier now that the motor is secured in place.

**Available herringbone pinions for Tron 7.0 Elite**



- 12T/6mm TR731-012
- **13T/6mm TR731-013 (stock, included in Elite kit)**
- 14T/6mm TR731-014
- 15T/6mm TR731-015
- 16T/6mm TR731-016



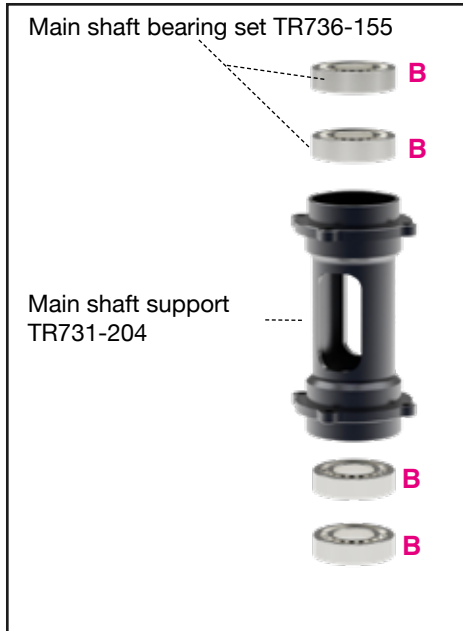
**Make sure that the screws do not touch the windings!**  
With the original M4x10mm screws the tread is sticking out 6mm into the motor.



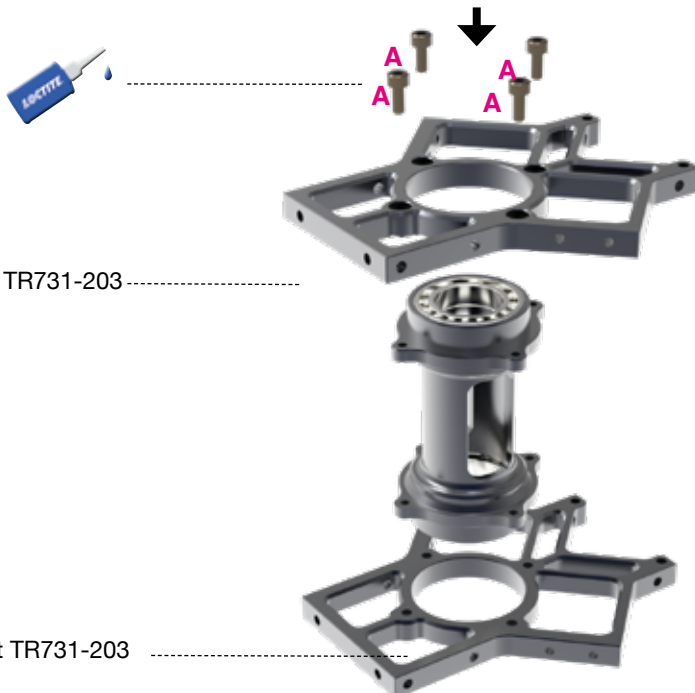
**You will need:**

Loctite 243 = blue

## Servo frame assembly

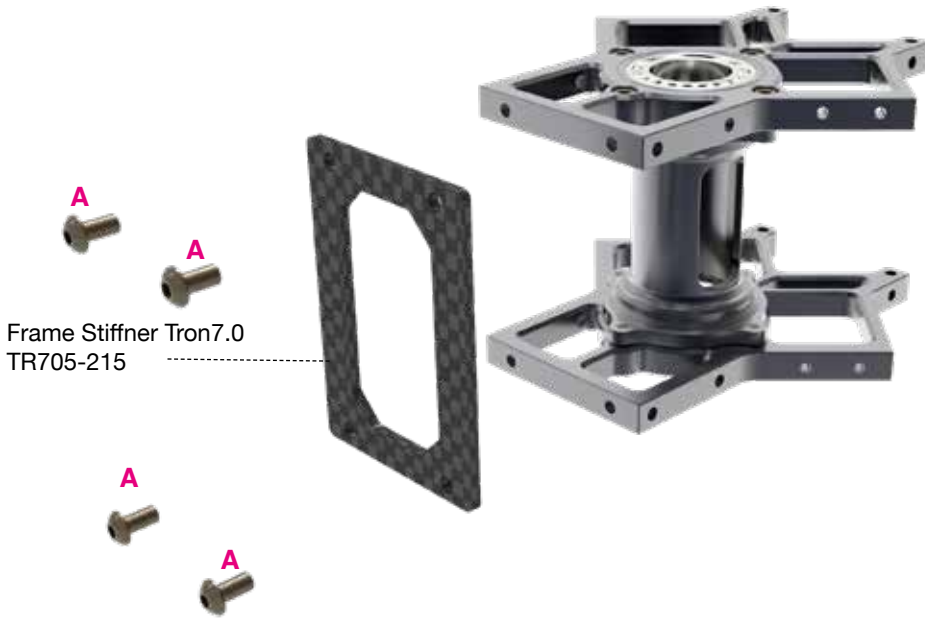


The mainshaft support tube has been assembled at the factory. Disassembly is not required, and no Loctite is needed to secure the bearings. If the bearings need to be replaced, you may want to use a hair dryer to slightly heat up the support tube.

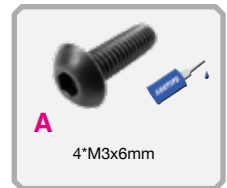


**You will need:**  
Loctite 243 = blue

**Servo frame assembly**



Frame Stiffner Tron7.0  
TR705-215



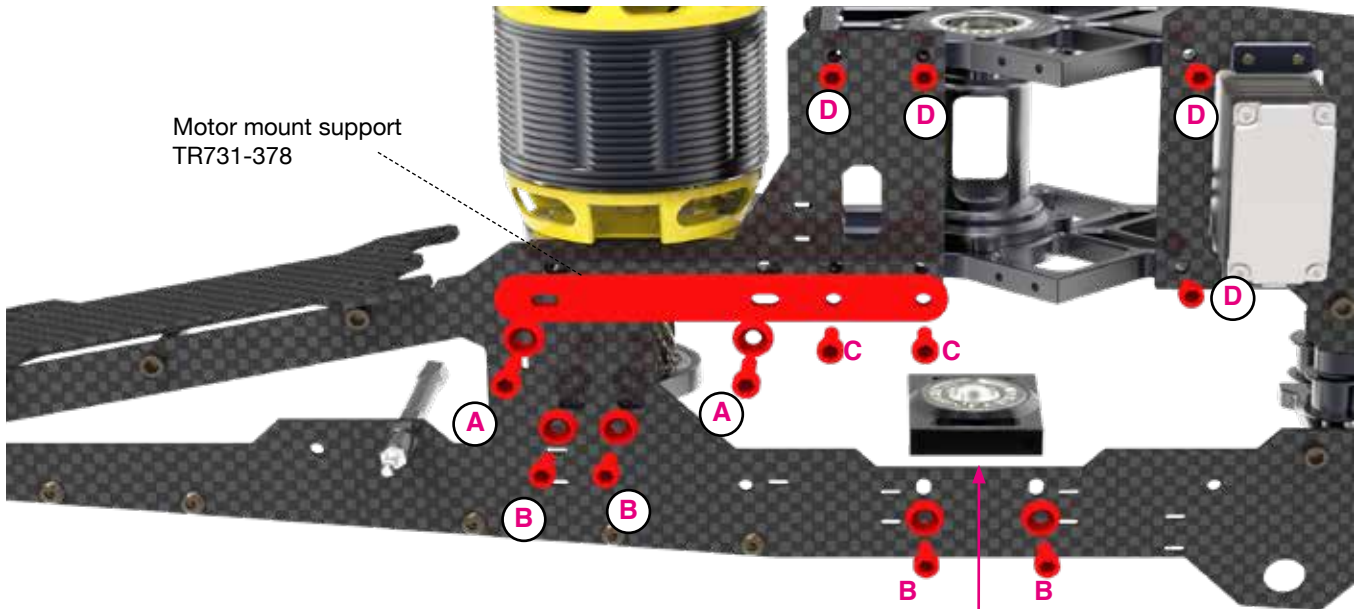
**You will need:**  
Loctite 243 = blue

**3rd bearing block**

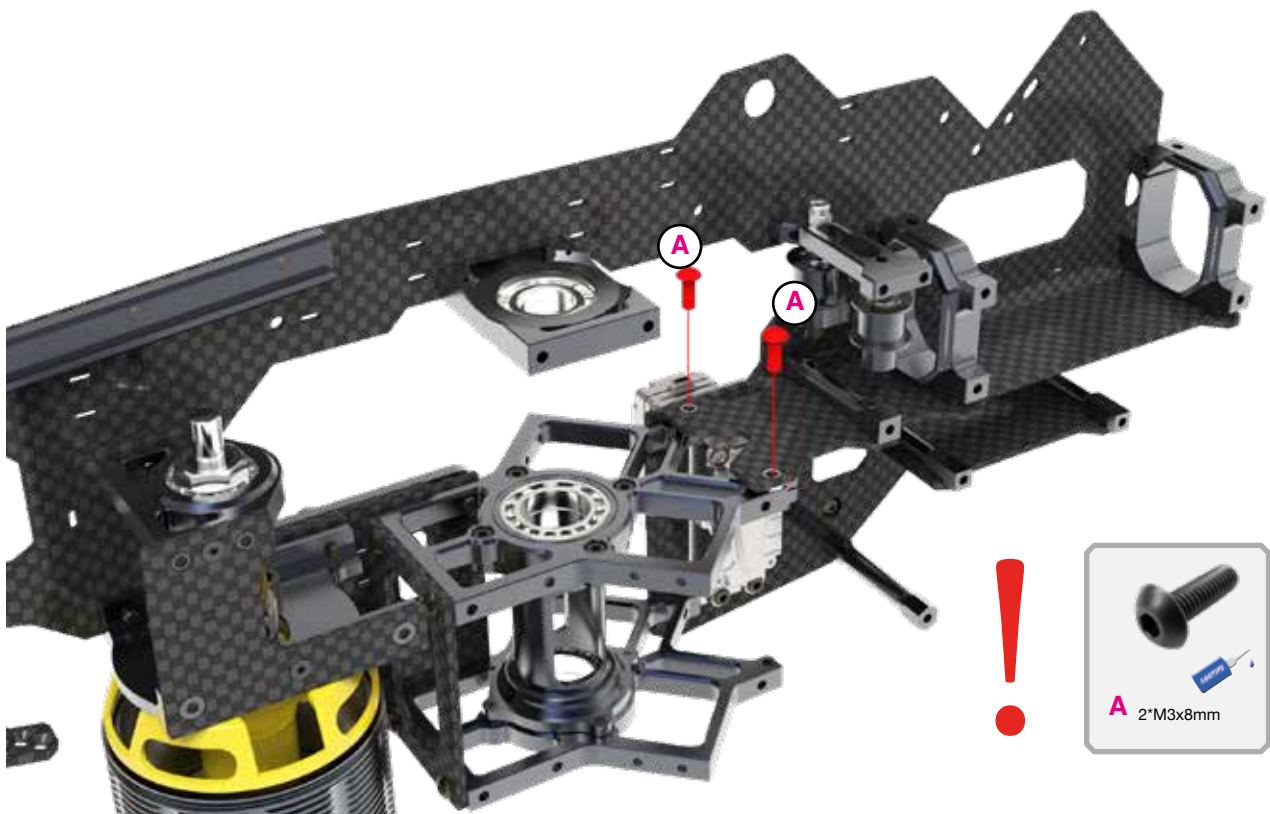


**You will need:**  
Loctite 243 = blue

## Upper Main frame assembly

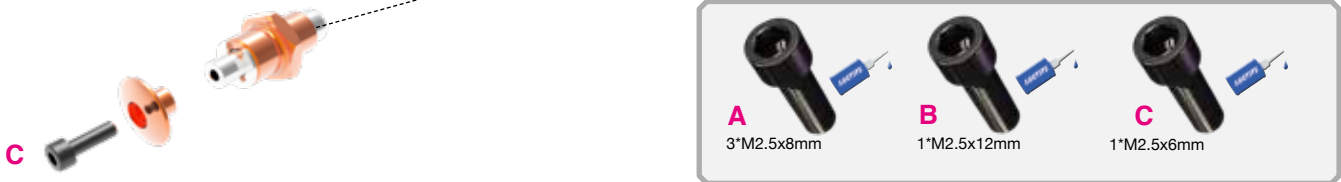


Do not tighten or Loctite the third bearing support at this stage; it will be secured later.

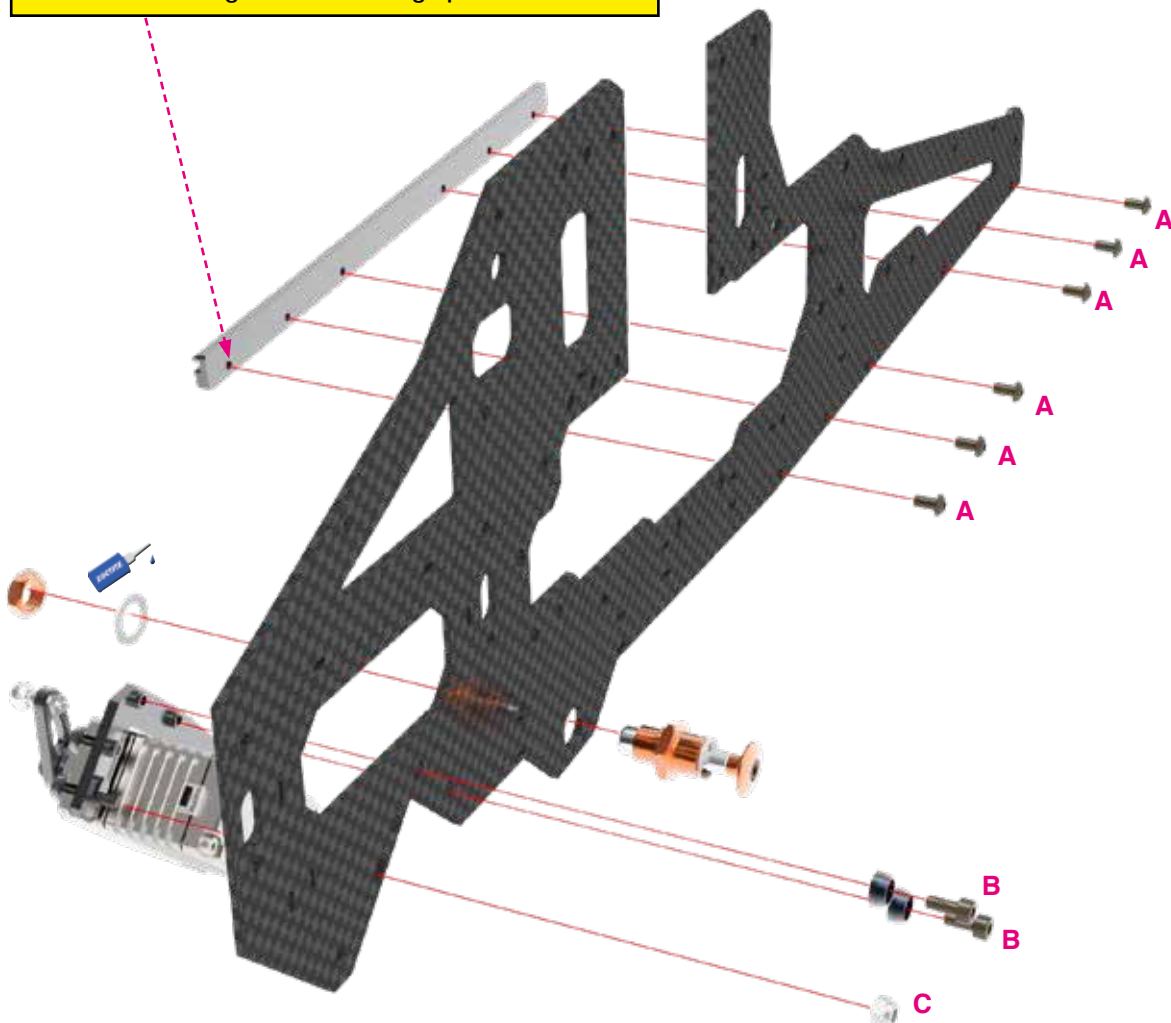


**You will need:**  
Loctite 243 = blue

## Upper main frame Installation



Note the orientation of the rail, which is facing towards the inside and the guide rail is facing upward.



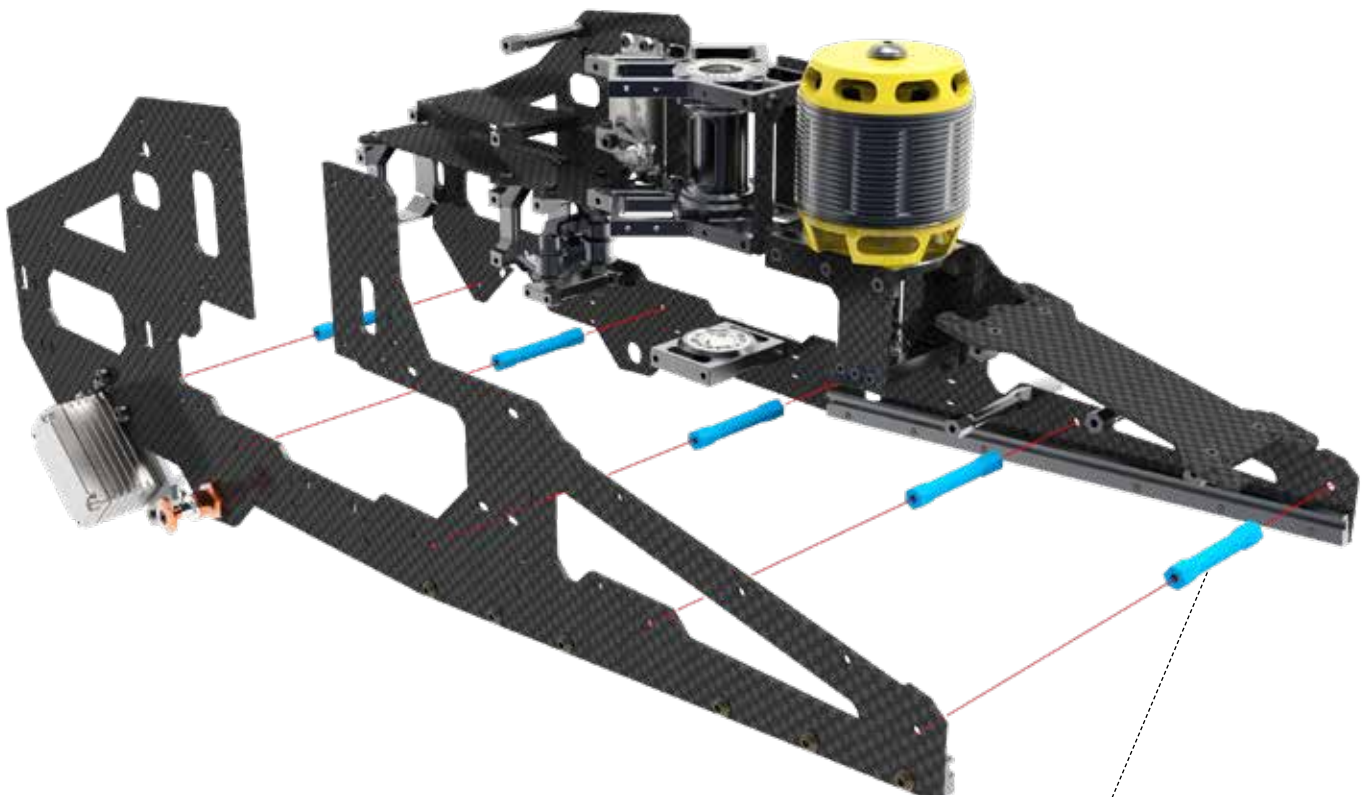
**You will need:**  
Loctite 243 = blue

## Upper main frame installation

### Frame spacer installation instructions

#### Temporary frame spacer fixing:

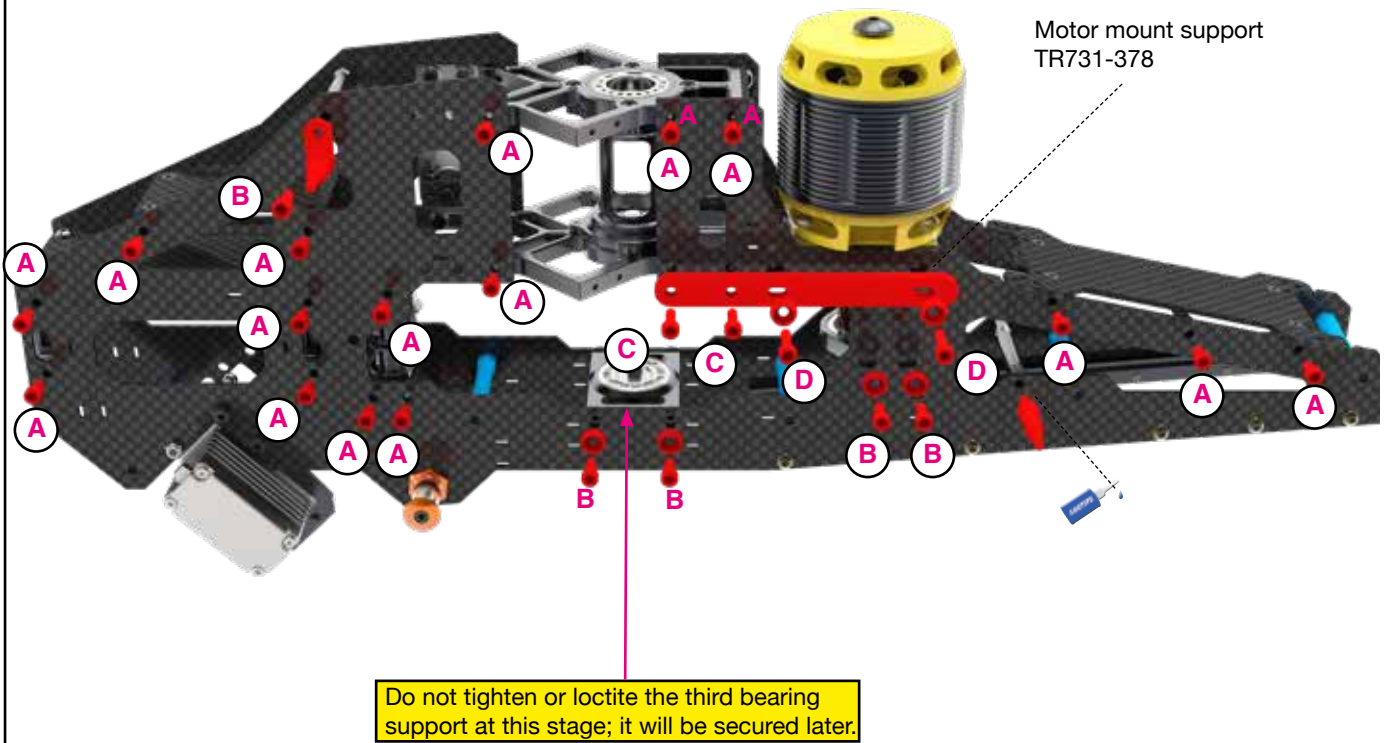
Using Type A screws, temporarily secure all spacers to the left side of the upper main frame. This will help align the components and simplify the installation of the lower left side frame. (see page 42)



TR701-219 Frame spacer

**You will need:**  
Loctite 243 = blue

## Upper main frame installation

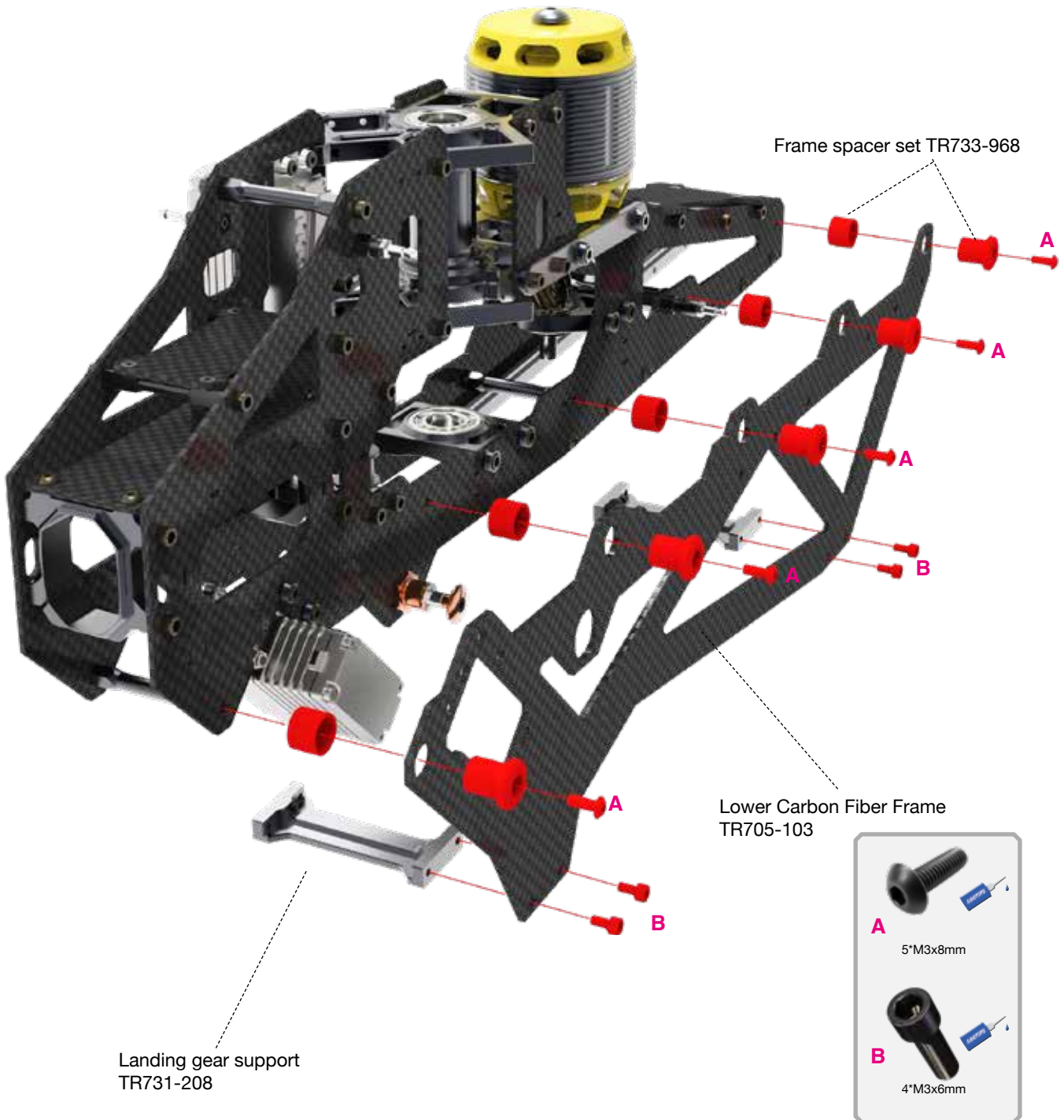


**You will need:**  
Loctite 243 = blue

## Lower frame instalation

### Lower left frame assembly

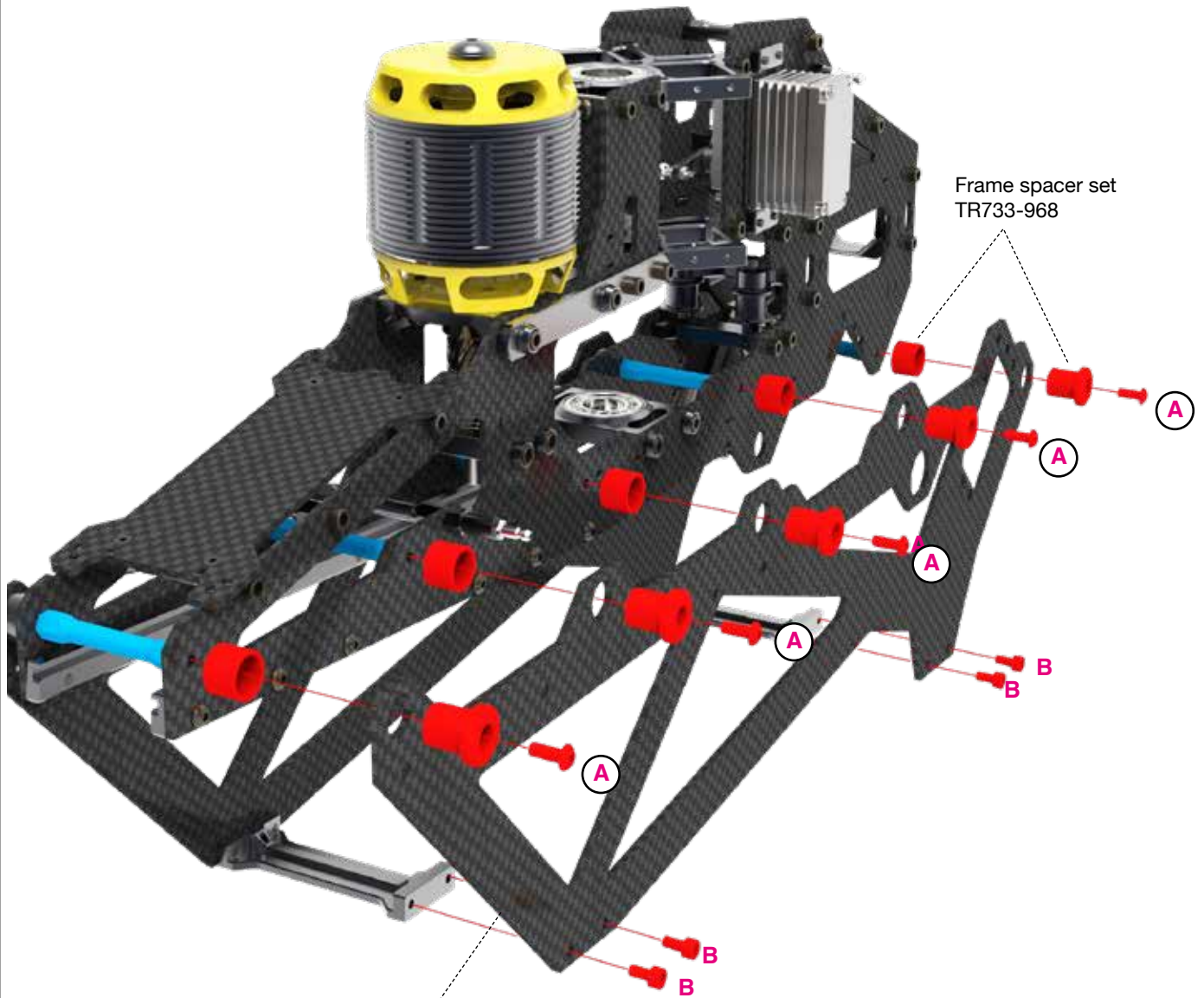
Mount the lower left side frame to the upper main frame using Type A screws. Ensure that the plastic break-away spacers are positioned between the frames. Apply Loctite to all screws before tightening.



**Left and right side lower main frames are identical.**

**You will need:**  
Loctite 243 = blue

## Lower frame installation



Frame spacer set  
TR733-968

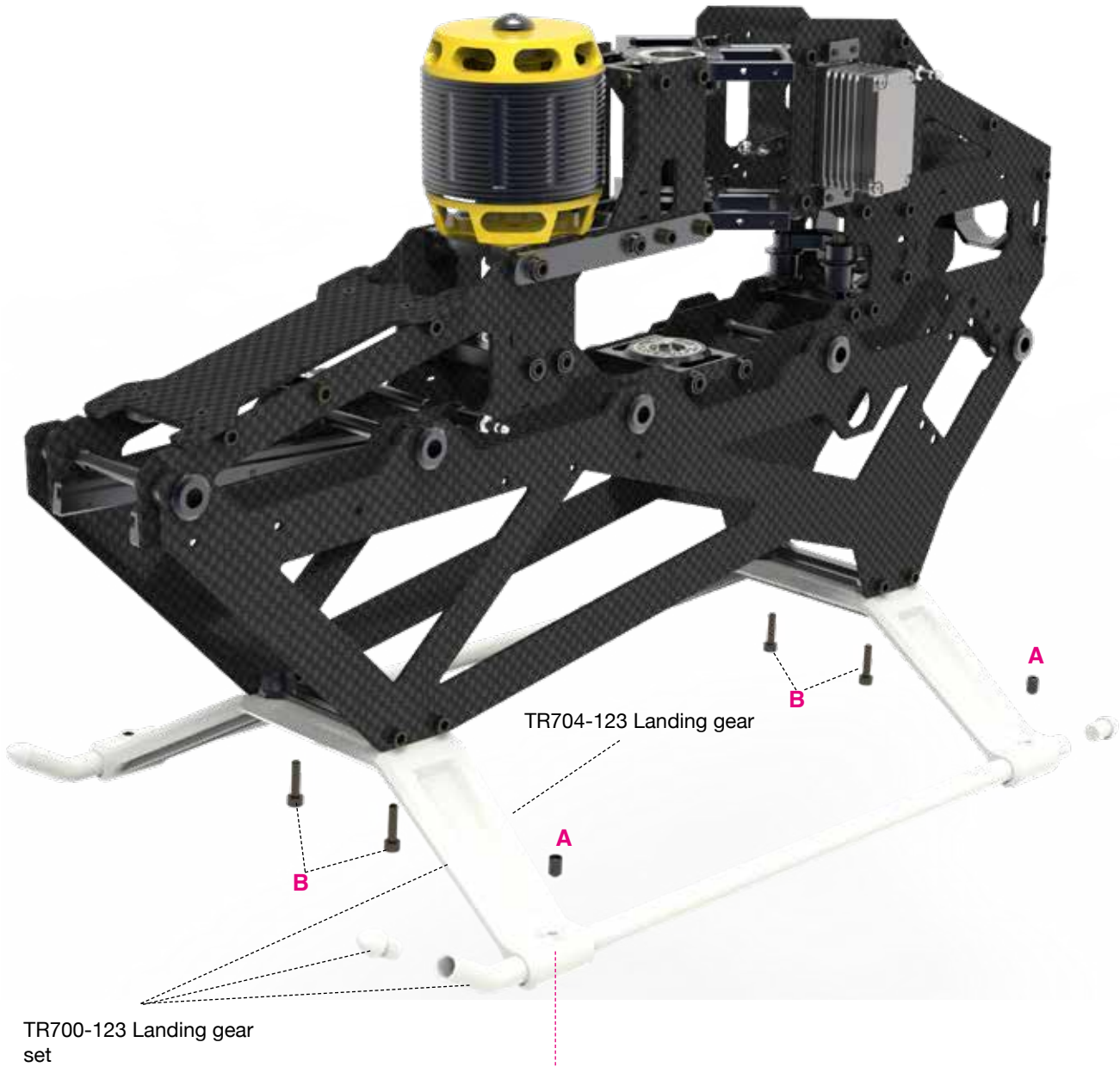
Lower Carbon Fiber Frame  
TR705-103



**Left and right side lower main frames  
are identical.**

**You will need:**  
Loctite 243 = blue

## Landing skid installation



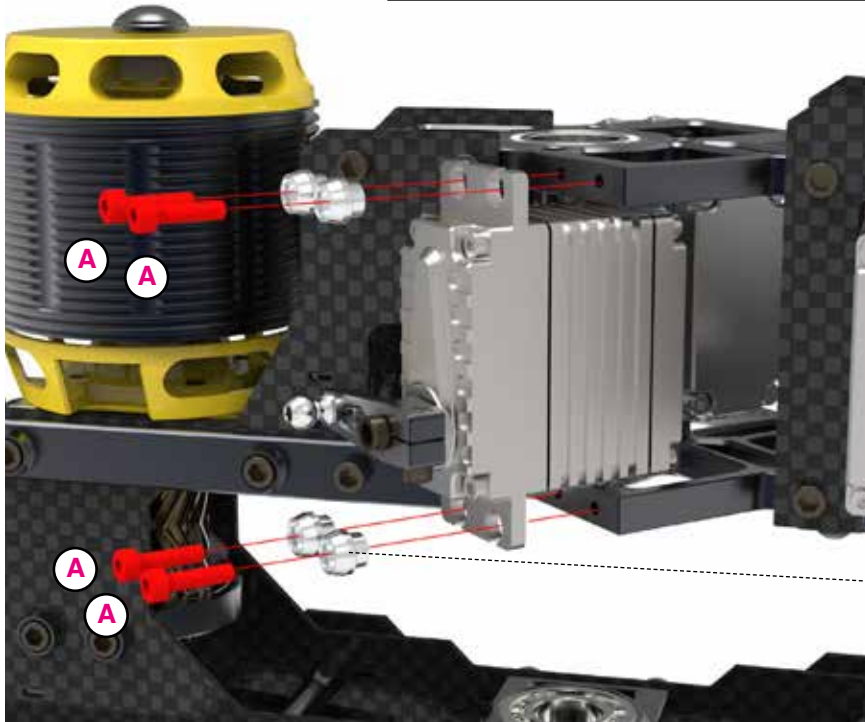
**ALIGN SETSCREWS WITH THE SKID'S PRE-DRILLED HOLES**



**You will need:**  
Loctite 243 = blue

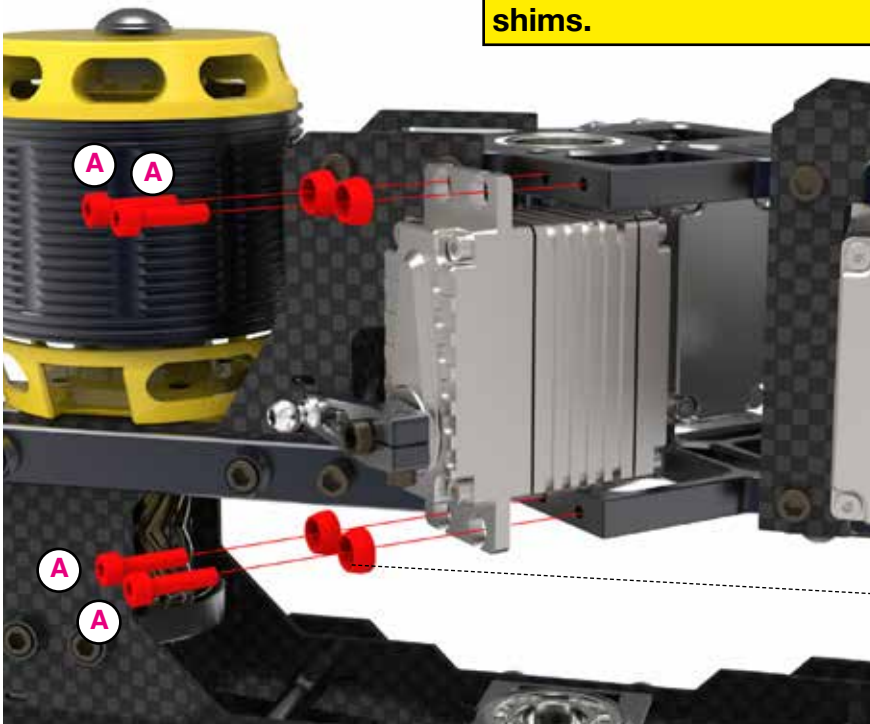
## Servo installation

If KST compatible servos are used you can use the guided shims to align and mount the servo



KST servo washers / 2.5mm x  
12 pcs TR732-105

For all the other servos you can use the unguided shims.



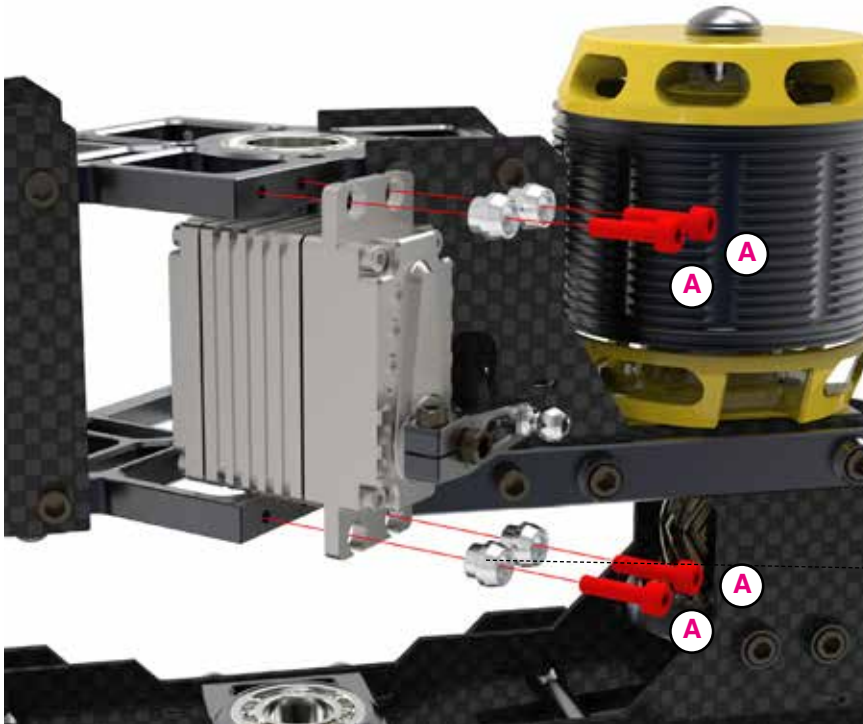
Black anodized washers /  
2.5mm x 8 TR501-102

**You will need:**

Loctite 243 = blue

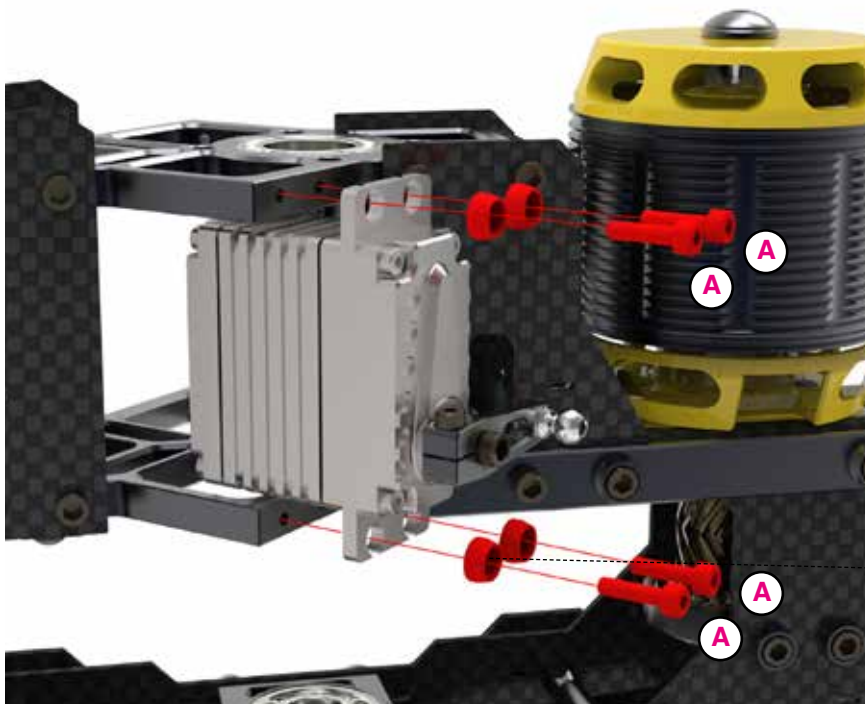
## Servo installation

**If KST compatible servos are used you can use the guided shims to align and mount the servo**



KST servo washers / 2.5mm x 12 pcs TR732-105

**For all the other servos you can use the unguided shims.**



Black anodized washers / 2.5mm x 8 TR501-102

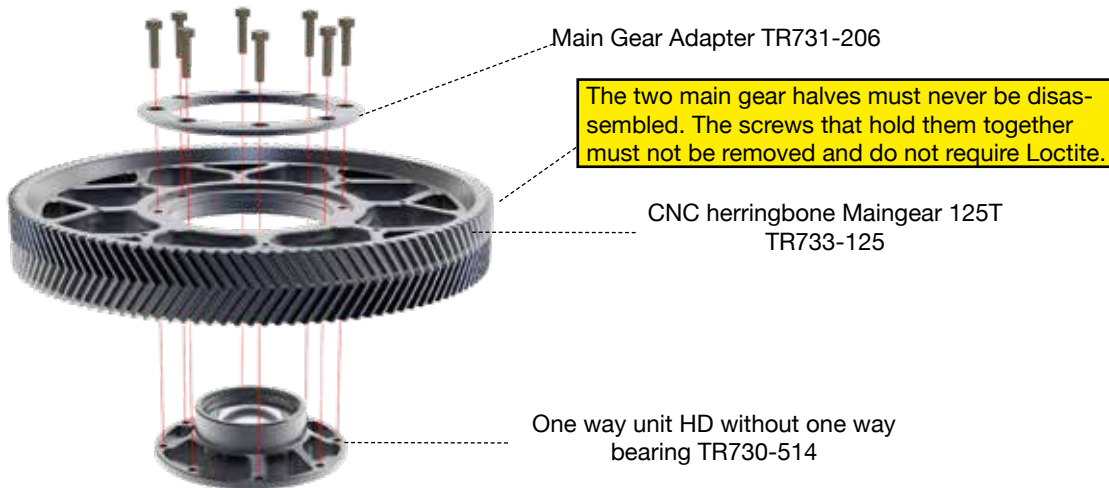
**You will need:**  
Loctite 243 = blue

## Main drive

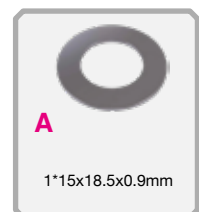
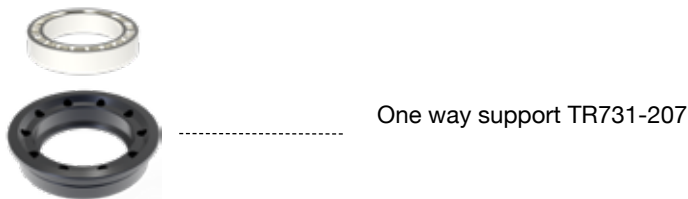


The main gear unit has been pre-assembled at the factory. The one-way bearing inside the gear is pre-greased and requires no additional lubrication. Disassembly is not required. Simply remove the screws, apply Loctite 243, and reinstall them – **except for the screws that hold the two gear halves together. These screws must never be removed, and the two halves must not be separated.**

To replace the one way bearing there is a special tool needed TR731-518. This tool can also be used to disassemble the swashplate. Its not necessary to disassemble it only if you have to replace the one way bearing.



The two main gear halves must never be disassembled. The screws that hold them together must not be removed and do not require Loctite.



**You will need:**

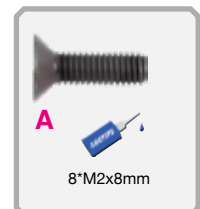
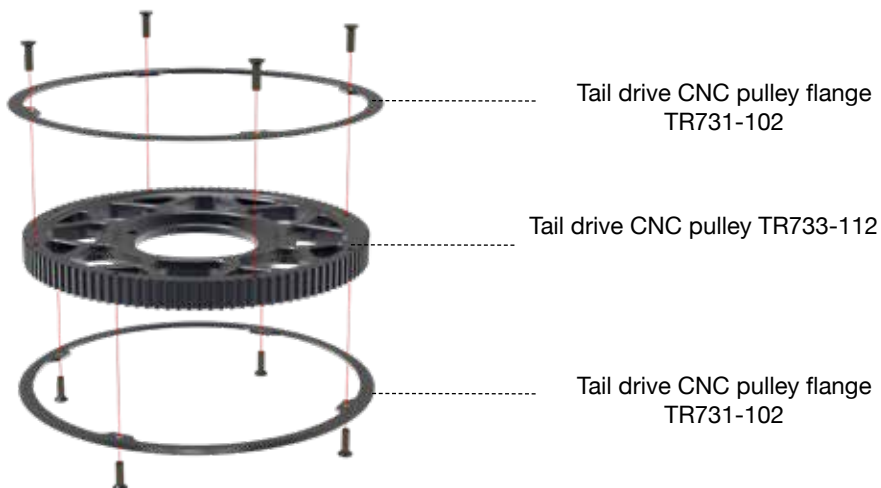
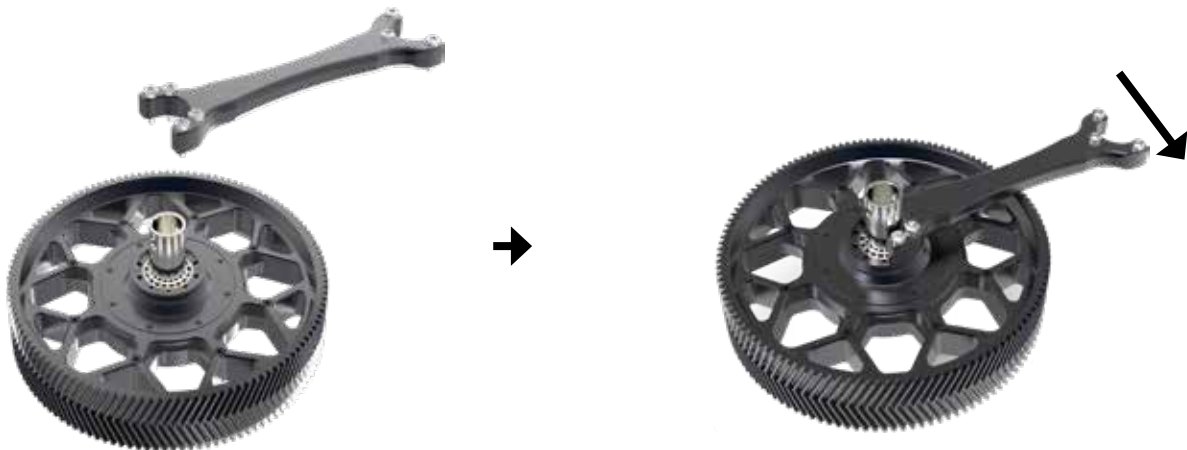
Loctite 243 = blue

## Main drive

Assembly of the top part of the hub

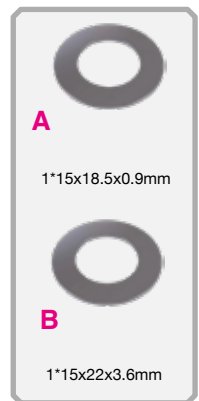
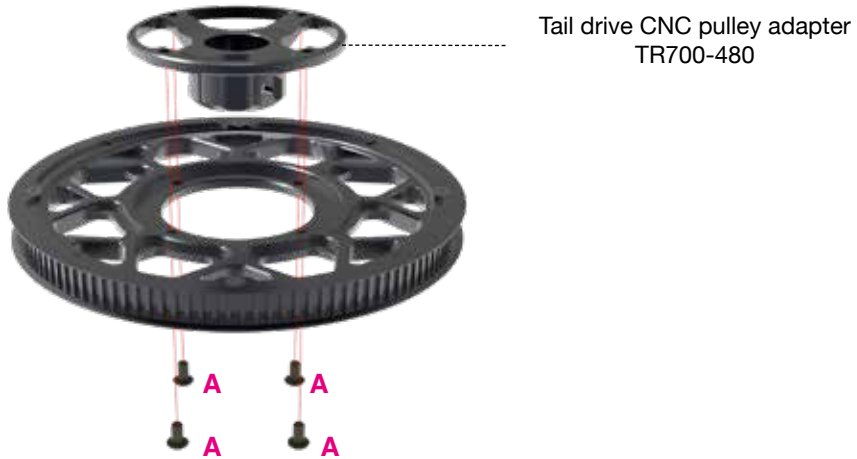


Assembly of the bottom part of the hub



**You will need:**  
Loctite 243 = blue

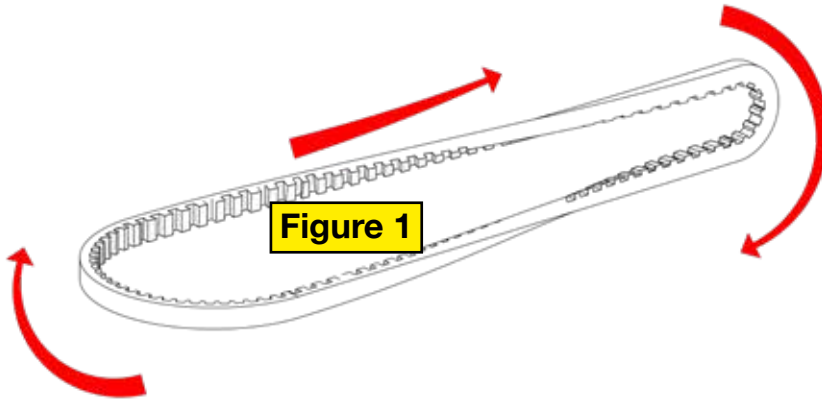
## Main drive



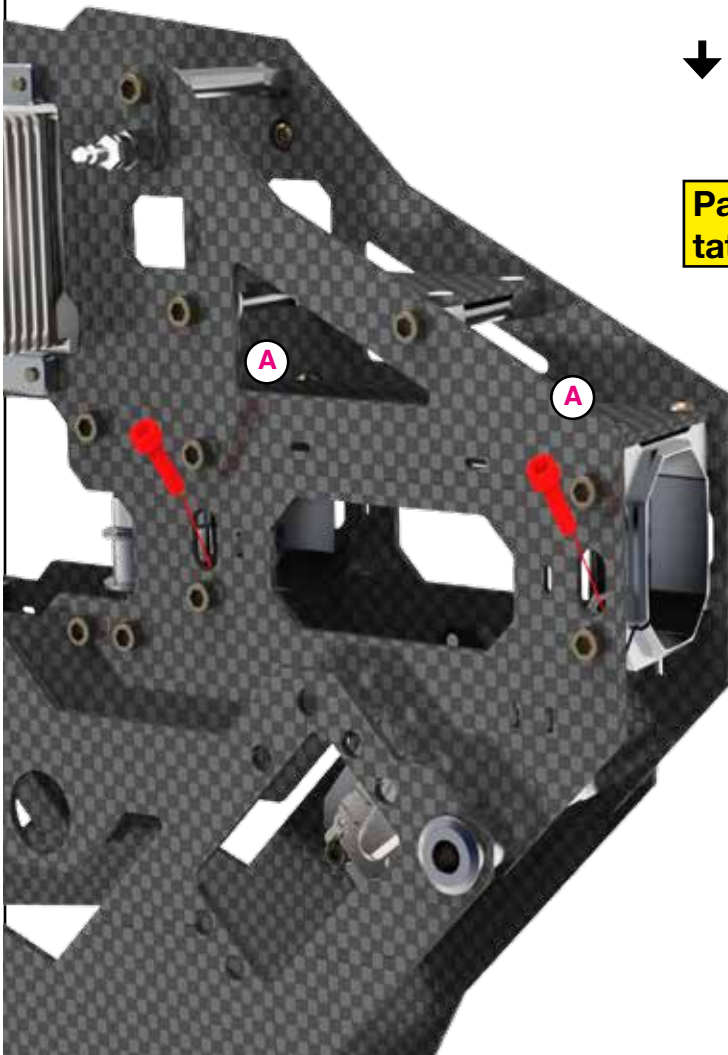
**You will need:**  
Loctite 243 = blue

## Tail boom installation

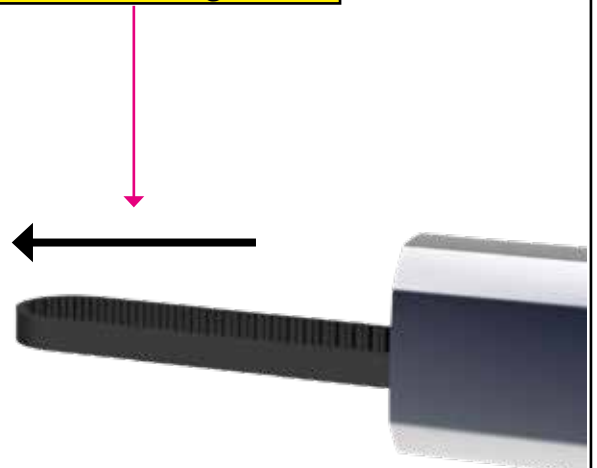
Ensure to have your tail belt oriented as shown in the illustration



1. Insert boom as shown into the tail boom clamps, pay attention to the correct orientation of the tail belt.
2. Slide the belt through the idler pulleys from the belt tensioner, using a cable tie to assist if needed.



Pay attention to the orientation of the belt. Figure 1




**You will need:**  
Loctite 243 = blue

## Main assembly

Add shim now.  
(page 16)


**E**



1\*15x21x0.5mm


**Step 2**

**A**



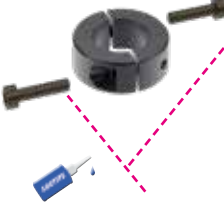
1\*M4x26.5mm

**B**



1\*M4

**Step**



Tighten screws now.  
2\*M3x14mm

**Step 1**

**Step**

**Securing the third bearing block**

**Step**

Positioning: Press the third bearing block upwards against the main gear assembly to eliminate any free play or movement.

Apply a small amount of medium-strength threadlocker (e.g., Loctite 243) to the threads of the four M3x10 screws.

Fastening: Insert and tighten the four M3x10 screws evenly to secure the bearing block in place.

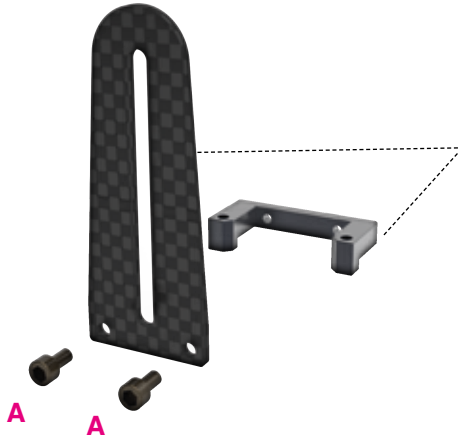
Preload the belt tensioner by turning the set screw 4 full rotations clockwise.

**step 6**

1. When inserting the main gear pull the tail belt over the front belt drive pulley.
2. Insert the main shaft into the frame and secure it with the Jesus bolt
3. Pull the boom backwards and apply tension to the belt.
4. Ensure the tail is rotating in the correct direction when turning the main rotor head clockwise. (Figure 1)
5. Tighten the boom clamp screws with screw **A**. Add Loctite 243 / blue!
6. Preload the belt tensioner by turning the set screw four full rotations clockwise.

**You will need:**  
Loctite 243 = blue

## Anti rotation guide installation

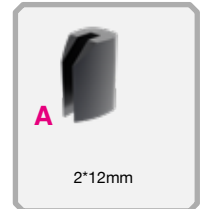
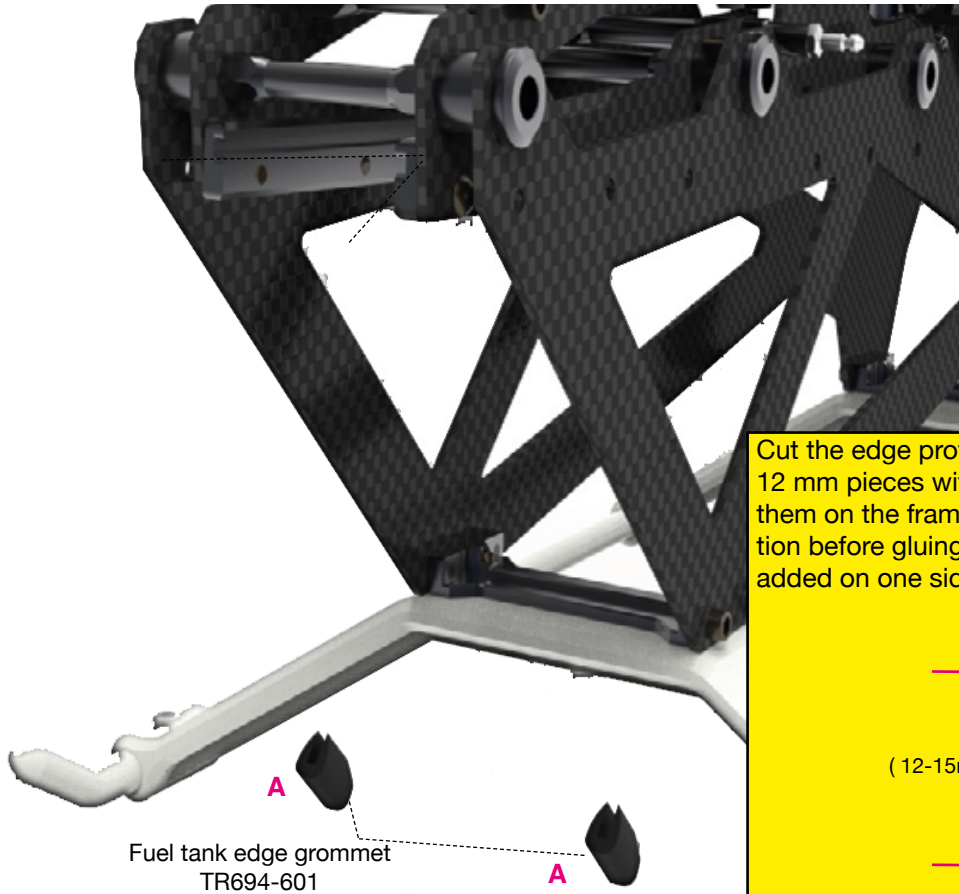


Anti rotation guide Tron7.0  
TR700-201

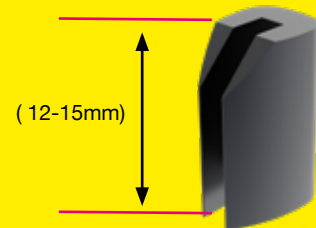


**You will need:**  
Loctite 243 = blue

## Anti rotation guide installation



Cut the edge protection grommet into two 12 mm pieces with scissors. Test-mount them on the frame to find the best position before gluing. A small chamfer can be added on one side for a better fit.



## Gear ratio main gear and tail

### Gear ratio for herringbone main gear.

#### Main rotor gear ratios.

Main gear	Pinion	Ratio
125 T	12T /6mm	10.41
<b>125 T</b>	<b>13T/6mm</b>	<b>9.61</b>
125 T	14T/6mm	8.92
125 T	15T/6mm	8.3

**Note:** The Tron 7.0 Elite Kit now comes with a **13T** motor pinion as standard.

#### Available herringbone pinions for Tron 7.0 Elite



- 12T/6mm TR731-012
- **13T/6mm TR731-013 (stock, included in Elite kit)**
- 14T/6mm TR731-014
- 15T/6mm TR731-015

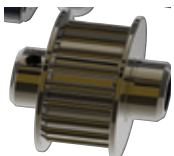
Max. head speed for main rotor head must not exceed 2600 RPM!

#### Tail rotor gear ratios.

Tail drive	Tail	Ratio
<b>112 T</b>	<b>22 T</b>	<b>5.09</b>
<b>112 T</b>	<b>23 T</b>	<b>4.87</b>

**Note:** The 22T tail rotor pulley is included as standard in the kit.

#### Available tail pulleys for Tron 7.0 Elite



- **22T TR730-322 ( stock, included in Elite kit )**
- **23T TR730-323**

**You will need:**

Loctite 243 = blue

## Gear mesh

1. Herringbone pinions do not require gear mesh like a normal gear. Carefully slide the motor mount against the main gear, applying only minimal pressure to eliminate any gear play without creating binding
2. Carefully tighten motor mount screws crosswise left and right while you slightly pressing down the motor mount to have it 90 degree to the main gear. **Use Loctite 243 = blue on all A and B type screws!**
3. Make sure after all motor mount screws are tightened the main gear turns free with zero or just a minimal gear play.



**Tech tip!**

Ensure proper gear mesh by adjusting the gears until they engage smoothly. Proper gear mesh is critical for optimal performance and longevity of the components.

**You will need:**  
Loctite 243 = blue

## Upper main frame assembly

2mm shims for 14mm blades

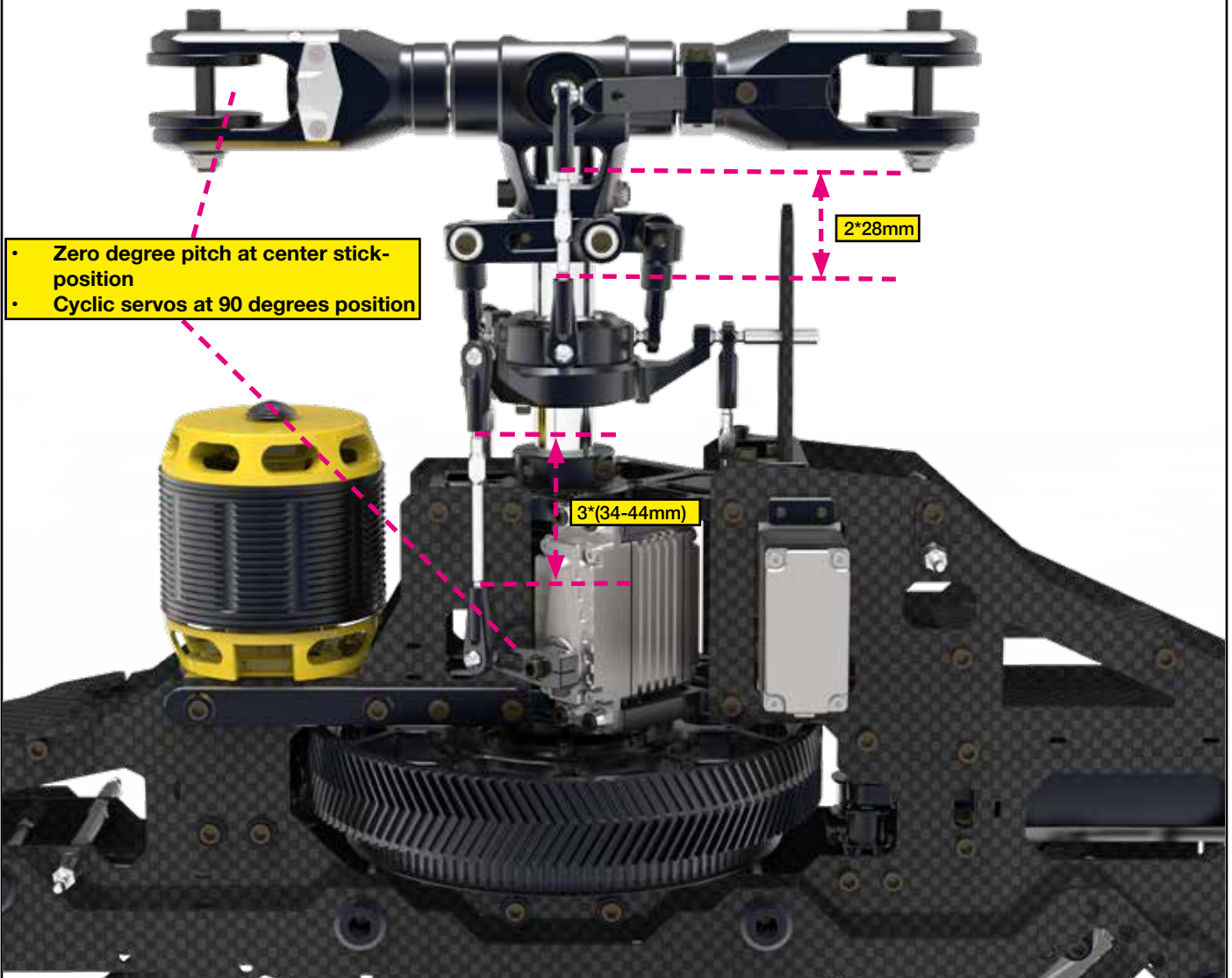


Shim Main blade 2mm TR733-262

3mm shims for 12mm blades



Shim main bladeholder 3mm TR733-263



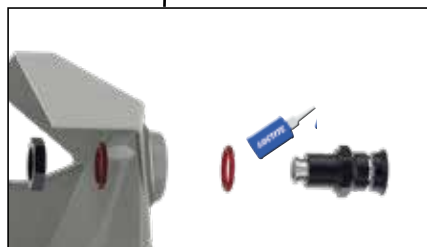
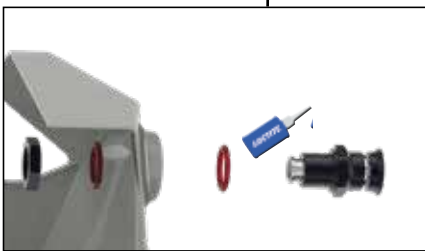
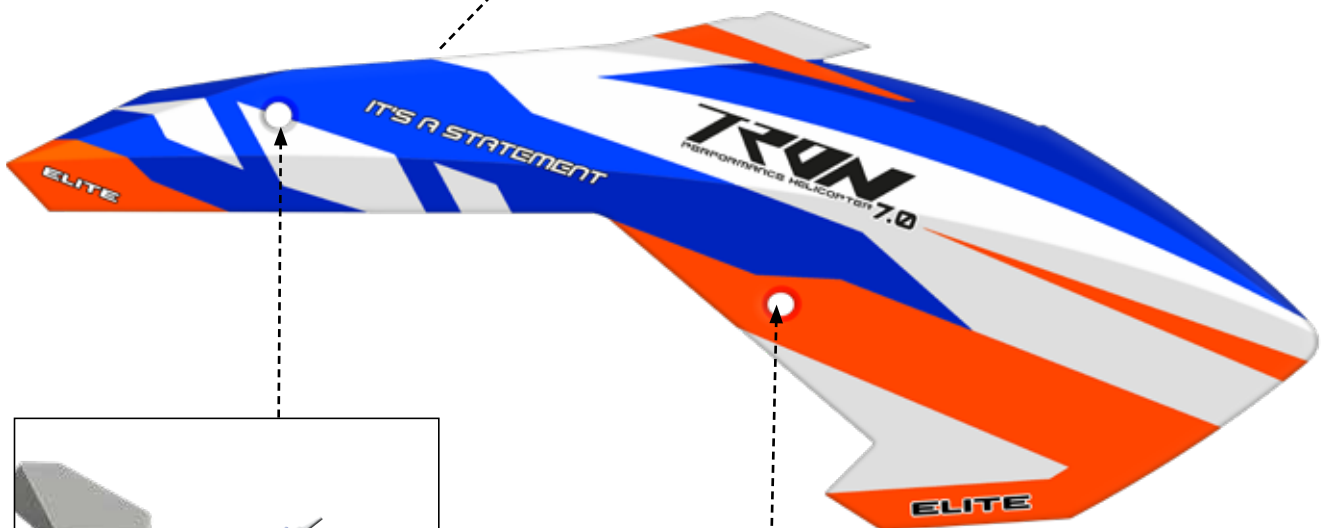
**You will need:**

Loctite 243 = blue

## Supersonic mounts / canopy

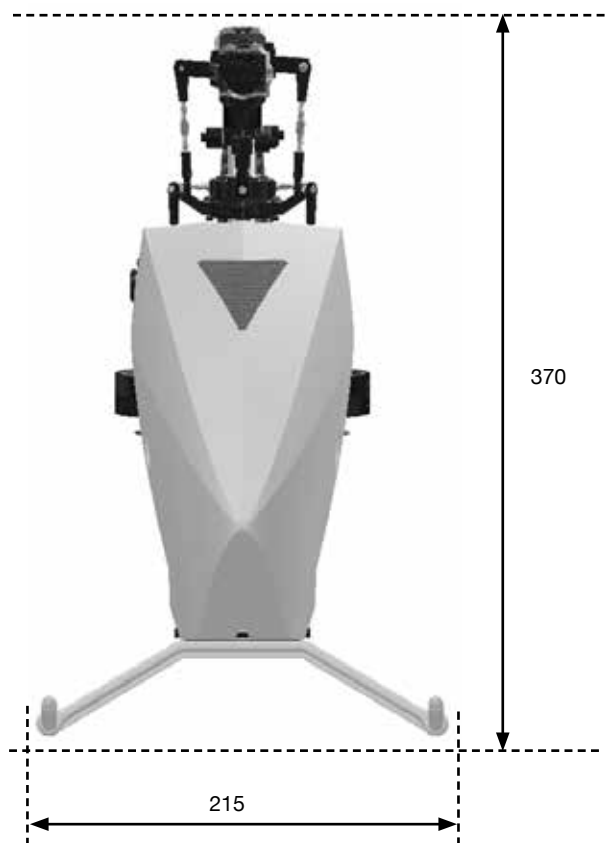
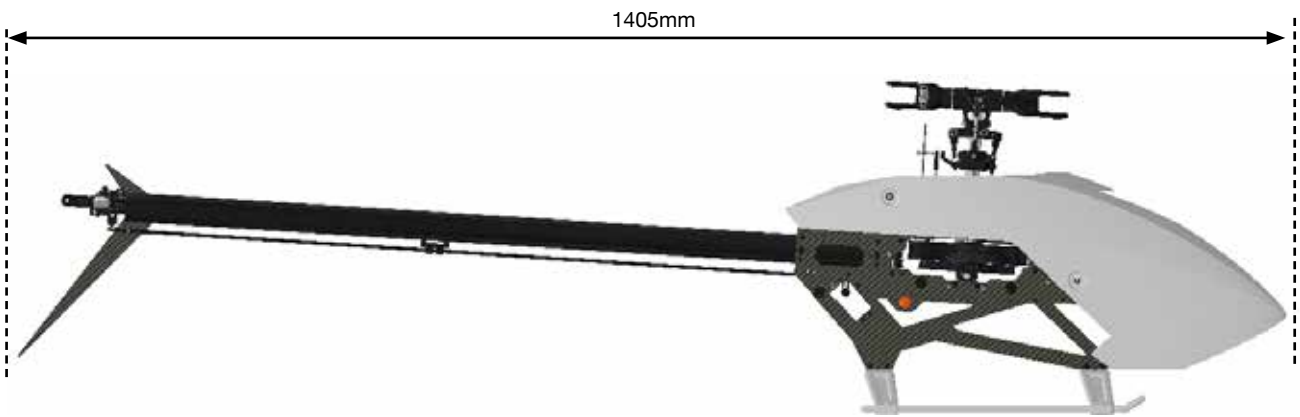
1. Assemble the supersonic mounts as shown in the illustration (use Loctite to secure the nuts)

Canopy Tron 7.0 Elite blue orange TR732-151



**Dimensions and weight**

- 1. Width = 215 mm / 8.46 inch
- 2. Height = 370 mm / 14.56 inch
- 3. Length = 1405 mm / 55.31 inch



## Preflight Check and Gear Ratios

1. Make sure your battery supply for your electronics is fully charged, monitor draw to ensure your supply is always safe.
2. Inspect your blades for possible damage and ensure they are tight.
3. Inspect your linkages to make sure they are all in place and not have been popped off during transport of your model.
4. Confirm that the FBL unit is correctly setup and initialized.
5. Make sure your canopy is securely fastened..
6. If you are a beginner, always seek advice from an experienced pilot, especially for your first flight.

### *Recommended head speeds*

Flying styles	Head speed
Floating style.	1400-1900RPM.
Advanced sport, 3D flying.	1900-2200RPM.
Advanced 3D flying.	2200-2400RPM.

## Regular Checks and Maintenance

*Regular maintenance is essential for helicopter models. Follow these guidelines:*

***Bolt Inspection:*** Regularly check that all bolts remain tight. Due to the increased vibrations, the use of high-quality thread lock is strongly recommended.

***Ball Link Wear:*** Ball links will wear out over time, particularly the two links connecting the swashplate to the blade grips. Inspect these frequently and replace them if any slop develops.

**Contact:**

For sales: [sales@tronhelicopters.com](mailto:sales@tronhelicopters.com) / for support: [support@tronhelicopters.com](mailto:support@tronhelicopters.com)  
[tronhelicopters.com](http://tronhelicopters.com)