



USER MANUAL
MANUALE D'USO
BENUTZER HANDBUCH
MANUEL D'UTILISATION

Vision
Competition
90



Introduction

Congratulation for your choice! Our Vision 90c is designed for modelers who love building and flying an highest quality model helicopter. The Vision 90c requires a short time for assembly and easy maintenance using standard hobby tools. This model, thanks to high performance and top flight features, is ideal for both beginner and expert pilots.

Warning

The Vision 90c is a precision machine requiring proper assembly and setup in order to avoid serious body injury. The manufacturer and distributors assume no liability for damages that could occur from the assembly or misuse of this product. It is under owner responsibility to operate the helicopter in a safe mode, so we recommend seeking help and guidance from other accomplished model helicopter pilots to ensure quick and successful learning.

Read carefully this manual first

Keep the model KIT parts away from children. Once finished assembling, the model is ready for testing; it is highly recommended that beginners seek the help of experienced RC helicopters pilots, or contact a Flying Club in order to get the necessary knowledge on how to use the model. If you are in doubt of your ability or on the current safety rules, we strongly recommend you to ask for assistance from experienced radio controlled helicopter modelers or join your local model flying club to gain the required knowledge and skill.

ElyQ does not assume the liability for the use and / or misuse of the model.

This model is not a toy.

ElyQ reserves the right to make any changes considered necessary without prior notice and shall not be liable for technical or editorial errors or omissions contained herein. For updates or further info, please visit our site www.elyq.com

Introduzione

Congratulazioni per aver scelto il nostro modello Vision 90c, un elicottero studiato con l'obbiettivo di rendere estremamente semplice il montaggio e soprattutto la manutenzione. Questa meccanica, grazie alle elevate prestazioni e caratteristiche di volo che la distinguono, è ideale sia per i principianti che per i più esperti.

Avvertenze

L'elicottero Vision 90c è un apparecchio di precisione che richiede un corretto assemblaggio e settaggio per evitare incidenti o conseguenze che potrebbero risultare dannose. E' responsabilità del possessore utilizzare in maniera corretta e sicura il modello, per evitare danni a cose o persone, a causa di mancanza di sicurezza o di uso scorretto.

Leggere prima questo manuale di montaggio. Non lasciate che i bambini utilizzino il materiale incluso nel KIT senza la supervisione di un adulto. Una volta completato il montaggio ed installato con cura i componenti necessari, il vostro modello è pronto per il collaudo. Se non avete ancora un sufficiente controllo nel volo, raccomandiamo caldamente l'assistenza di personale dotato di esperienza nel telecomandare gli elicotteri o di rivolgersi al Vs. "Flying Club" per acquisire la necessaria conoscenza e utilizzo del prodotto. Chiedete informazioni, tramite personale dotato di esperienza, in riferimento alle norme di sicurezza durante le prove e i voli. Anche in questo caso suggeriamo di rivolgersi al Vs. più vicino "Flying Club" per acquisire le norme sulla sicurezza relative agli elicotteri R/C.

Se è il Vision 90c è il vostro primo elicottero R/C che assemblate raccomandiamo caldamente di farvi assistere da un pilota esperto per la messa a punto e per le prime istruzioni di volo.

ElyQ non si assume nessuna responsabilità relativa all'uso del prodotto. Questo modello non è un giocattolo.

ElyQ declina ogni responsabilità per eventuali errori e/o imprecisioni nelle informazioni riportate e si riserva il diritto di apportare ogni modifica ritenuta necessaria, senza alcun preavviso. Visitate il nostro sito per eventuali aggiornamenti e/o ulteriori informazioni: www.elyq.com

Einleitung

Wir gratulieren Ihnen zu der Wahl unseres Hubschraubers Vision 90c. Dieser Hubschrauber wurde mit dem Ziel entworfen, die Montage und vor allem die Wartung extrem leicht zu gestalten. Dieses Modell eignet sich dank seiner Leistungen und optimalen Flugeigenschaften ideal für Anfänger und für Experten.

Hinweise

Der Hubschrauber Vision 90c ist ein Präzisionsgerät, das eine korrekte Montage und Einstellung verlangt, um Unfälle oder Schaden bringende Folgen zu vermeiden. Es liegt in der Verantwortung des Benutzers, das Modell korrekt und sicher zu benutzen, um Schäden an Gegenständen und Personen zu vermeiden, die auf Grund von fehlender Sicherheit und nicht korrektem Gebrauch entstehen können.

Lesen Sie zuerst dieses Montagehandbuch. Lassen Sie Kinder nicht das Material, das in dem Bausatz enthalten ist, benutzen. Wenn die Montage abgeschlossen ist und die notwendigen Komponenten installiert sind, ist Ihr Modell bereit für die Endkontrolle; wenn Sie noch keine ausreichenden Erfahrungen mit dem Umgang eines Modellhubschraubers haben, empfehlen wir Ihnen die Unterstützung durch erfahrene Piloten. Wenden Sie sich an Ihren nächstgelegenen Modellflugverein, um die notwendigen Kenntnisse zu erwerben und das Fliegen zu lernen. Informieren Sie sich auch über die Sicherheitsvorschriften während der Tests und des Flugs. Auch in diesem Fall empfehlen wir Ihnen, sich an den nächsten Modellflugverein zu wenden, um die Sicherheitsnormen für die Hubschrauber R/C zu bekommen.

Für ferngesteuerte Flugmodelle besteht die generelle Pflicht einer Modellflug-Haftpflichtversicherung. Eine private Haftpflichtversicherung ist nicht ausreichend.

ElyQ übernimmt keinerlei Verantwortung bezüglich des Gebrauches des Produkts. Dieses Modell ist kein Spielzeug.

ElyQ entzieht sich jeglicher Verantwortung für eventuelle Fehler und/oder Abweichungen bei den angegebenen Informationen und behält sich außerdem das Recht vor, jede für notwendig gehaltene Veränderung ohne Vorankündigung vorzunehmen. Besuchen Sie unsere Webseite für eventuelle Aktualisierungen und weitere Informationen: www.elyq.com

Introduction

Nous tenons à vous féliciter d'avoir choisi notre hélicoptère Vision 90c, un hélicoptère étudié dans l'objectif de rendre extrêmement simple le montage et surtout l'entretien. Ce modèle, grâce aux prestations et aux caractéristiques élevées de vol, est idéal pour les débutants et pour les personnes les plus expérimentées.

Avertissements

L'hélicoptère Vision 90c est un appareil de précision qui demande un assemblage et un réglage correct pour éviter tout accident ou des conséquences qui pourraient s'avérer nuisibles. Le propriétaire de l'hélicoptère est responsable de son utilisation correcte et sûre, pour éviter des dommages aux choses ou aux personnes, à cause de manque de sécurité ou d'usage incorrect.

Lire auparavant ce manuel de montage. Ne pas laisser le matériel inclus dans le KIT à la portée des enfants. Une fois le montage terminé et les composants nécessaires installés, votre modèle est prêt pour l'essai; mais vous n'avez pas encore un contrôle suffisant du vol, par conséquent nous vous conseillons vivement de recourir à l'assistance de personnel expérimenté dans la télécommande des hélicoptères ou de vous adresser à votre "Flying Club" pour acquérir les connaissances nécessaires pour utiliser ce produit. Demandez des informations, par l'intermédiaire du personnel expérimenté, en référence aux normes de sécurité pendant les essais et les vols. Dans ce cas également nous vous conseillons de vous adresser au "Flying Club" le plus proche de votre domicile pour prendre connaissance des normes sur la sécurité relatives aux hélicoptères R/C.

S'il s'agit du premier hélicoptère R/C que vous réalisez, nous vous conseillons vivement de vous faire aider par un pilote expérimenté pour la mise au point et pour les premières instructions de vol.

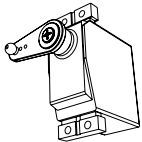
ElyQ ne se peut être tenue responsable quant à l'utilisation du produit. Ce modèle n'est pas un jouet.

ElyQ décline toute responsabilité en cas d'éventuelles erreurs et/ou imprécisions dans les informations reportées et se réserve le droit d'apporter toute modification jugée nécessaire, sans aucun préavis. Visitez notre site pour des mises à jour éventuelles et/ou ultérieures informations: www.elyq.com

Equipment required for Assembly

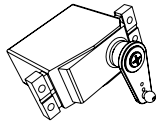
Standard Servo

4x



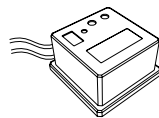
Specific Tail Servo

1x



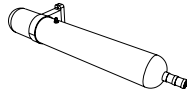
Head Lock Gyro

1x



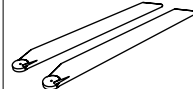
Muffler (.90)

1x



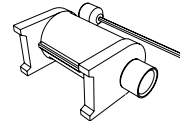
690/720 Blades

1x set



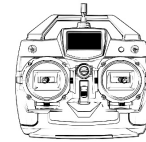
Engine Starter

1x



Transmitter 6ch or more

1x



Helicopter System

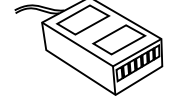
Heli Engine (.90)

1x



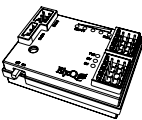
Receiver (6ch or more)

1x



ElyQ - Voltage Regulator

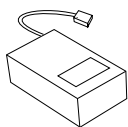
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Recommended

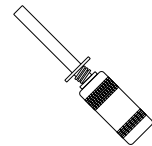
7.4V-1.5A/2A Lipo Battery

1x



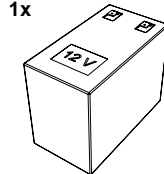
Glow Starter

1x



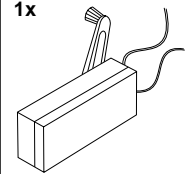
12V Battery

1x



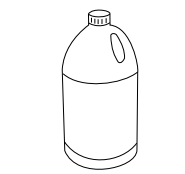
Fuel Pump

1x



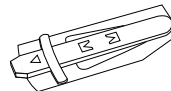
Fuel

1x



Pitch Gauge

1x

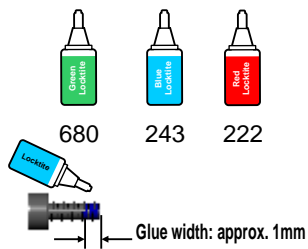


Glow Plug Wrench

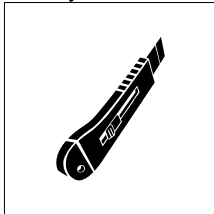
1x



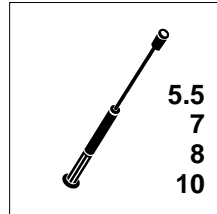
Tools required for assembly - Attrezzi richiesti per l'assemblaggio - Benötigte Werkzeuge für die Montage - Outils nécessaires pour l'assemblage



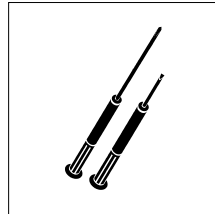
Hobby cutter knife



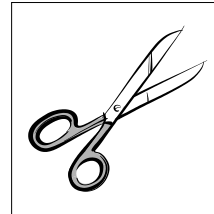
Socket Drivers



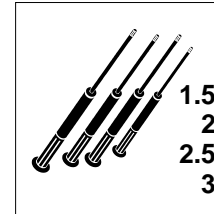
Screw Drivers



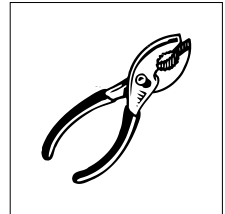
Scissors



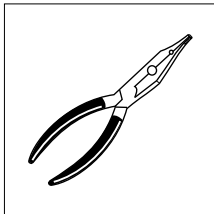
Hex Wrench



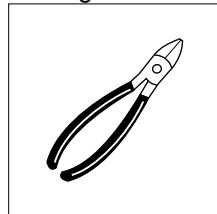
Pliers



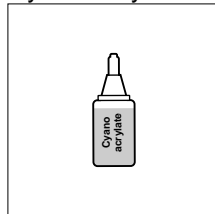
Ball Link Pliers



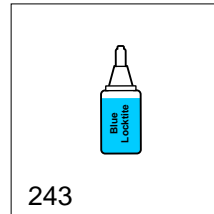
Cutting Pliers



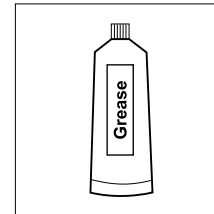
Cyano Acrylate



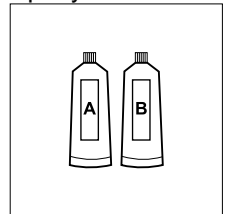
Blue Lockite



Grease



Epoxy



Retention of bearings onto shafts and into housings



(Bag EQ9000)

Fuel Tank Assembly

The fuel tank comes assembled from the factory.

1 The Silicon fuel clunk tube (4), plugged into the Fuel Tank (3), has a top quality feature and it is designed in order to work with very high nitromethane percentage. In spite of this characteristic, we recommend to make periodic controls to avoid possible anomalies. If the control should highlight deterioration, we suggest a replacement, otherwise it can break off.

(Bag EQ9000)

Fuel Tank Assembly

Questa parte viene fornita già assemblata.

1 Il Silicone fuel clunk tubing (4) inserito nel Fuel Tank (3) è di ottima qualità ed il materiale è stato selezionato per operare con percentuali di nitrometano molto alte. Ciò nonostante è consigliabile, al fine di evitare possibili anomalie, di effettuare controlli periodici. Qualora si dovesse evidenziare un deterioramento se ne suggerisce la sostituzione.

(Bag EQ9000)

Fuel Tank Assembly

Dieses Teil wird bereits montiert geliefert.

1 Der Silikonschlauch (4), der in den Kraftstofftank (3) eingesetzt wird, hat eine optimale Qualität, damit auch sehr hoch nitromethanhaltiger Sprit benutzt werden kann. Dennoch ist es ratsam, eine regelmäßige Kontrolle durchzuführen, um mögliche Schäden am Schlauch und am Tank zu vermeiden. Falls die Kontrolle eine Verschlechterung aufweisen sollte, ist eine sofortige Erneuerung notwendig.

(Bag EQ9000)

Fuel Tank Assembly

Cet ensemble est fourni déjà assemblé.

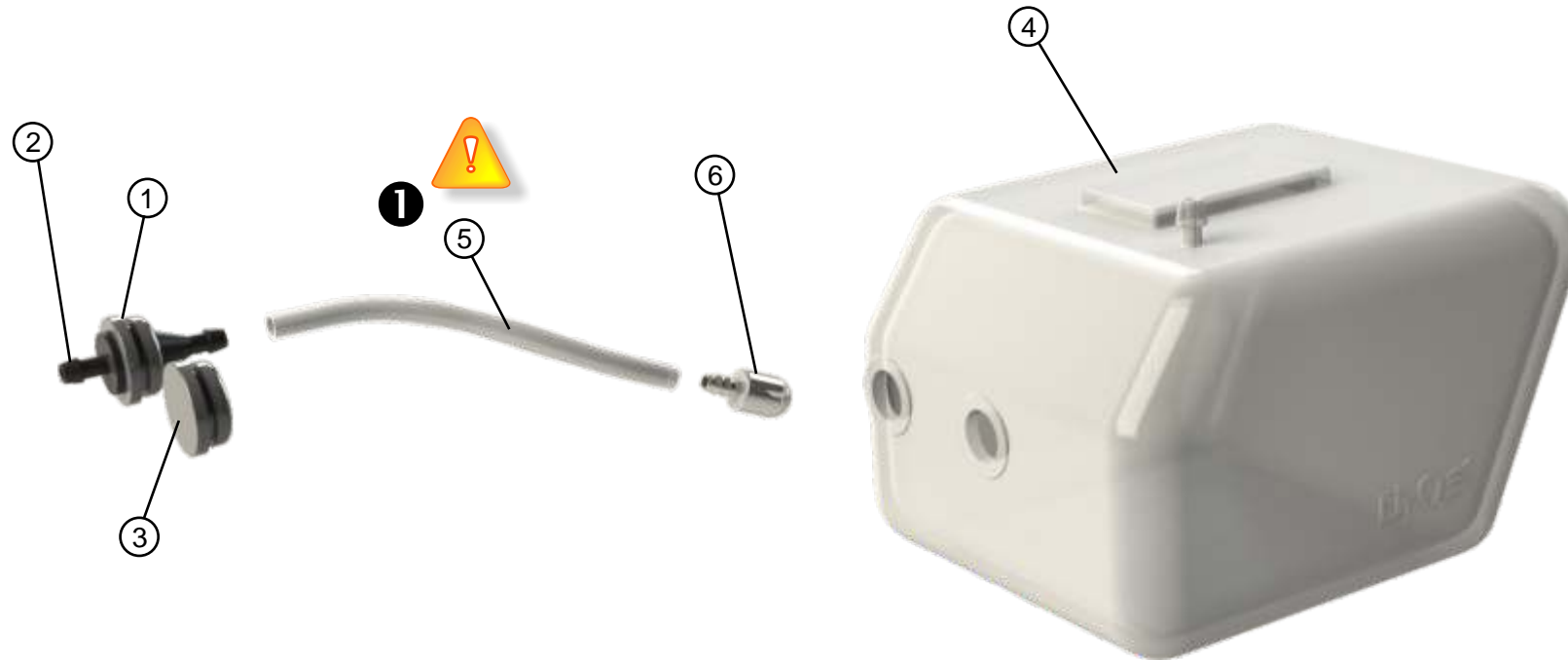
1 Le Silicone fuel clunk tubing (4) inséré dans le Fuel Tank (3) est d'excellente qualité et le matériel a été sélectionné pour opérer avec des pourcentages de nitrométhane très élevés. Cependant il est conseillé, afin d'éviter de possibles anomalies, d'effectuer un contrôle périodique. Au cas où le contrôle devait révéler une détérioration, il est conseillé de procéder au remplacement.

EN

IT

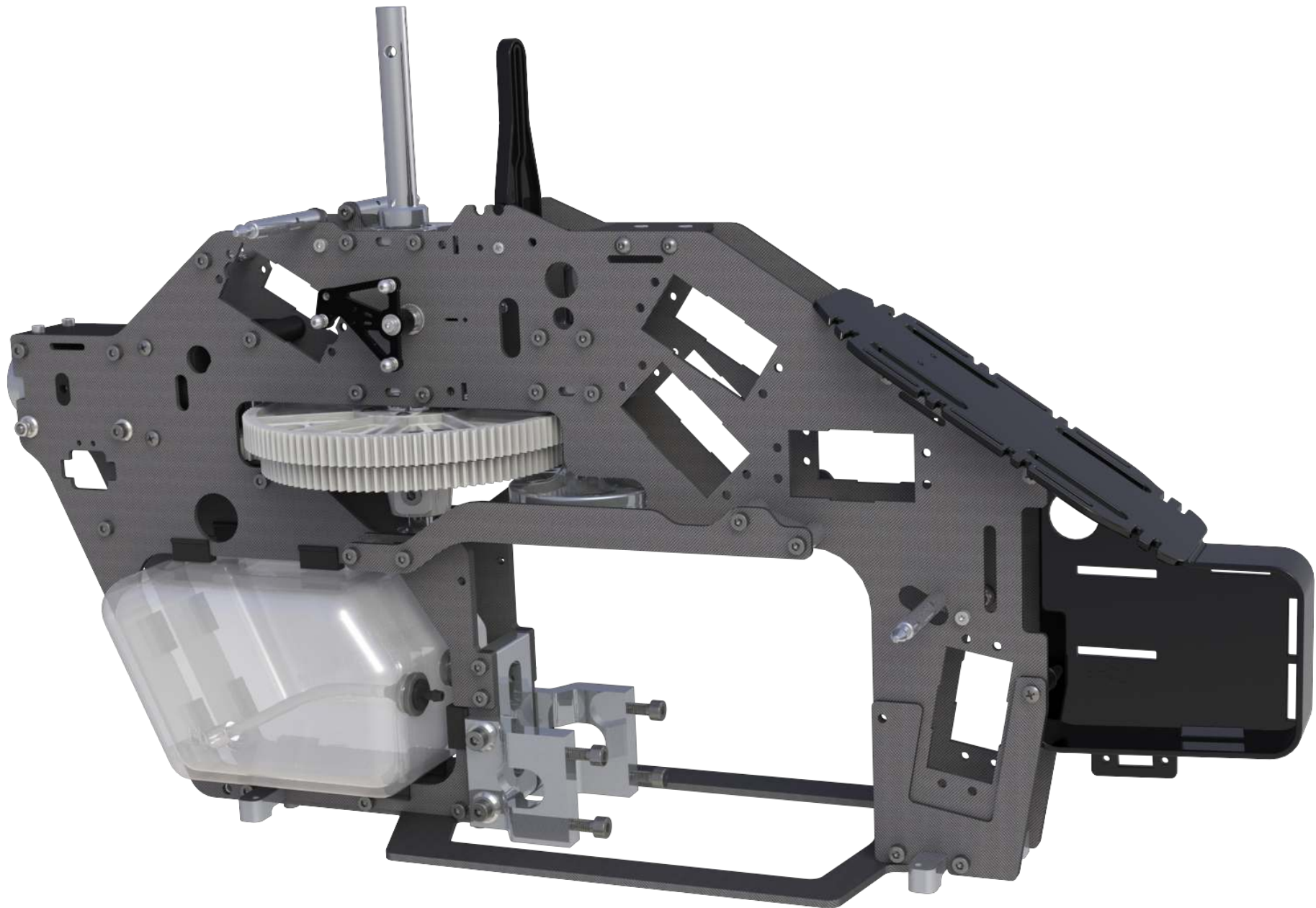
DE

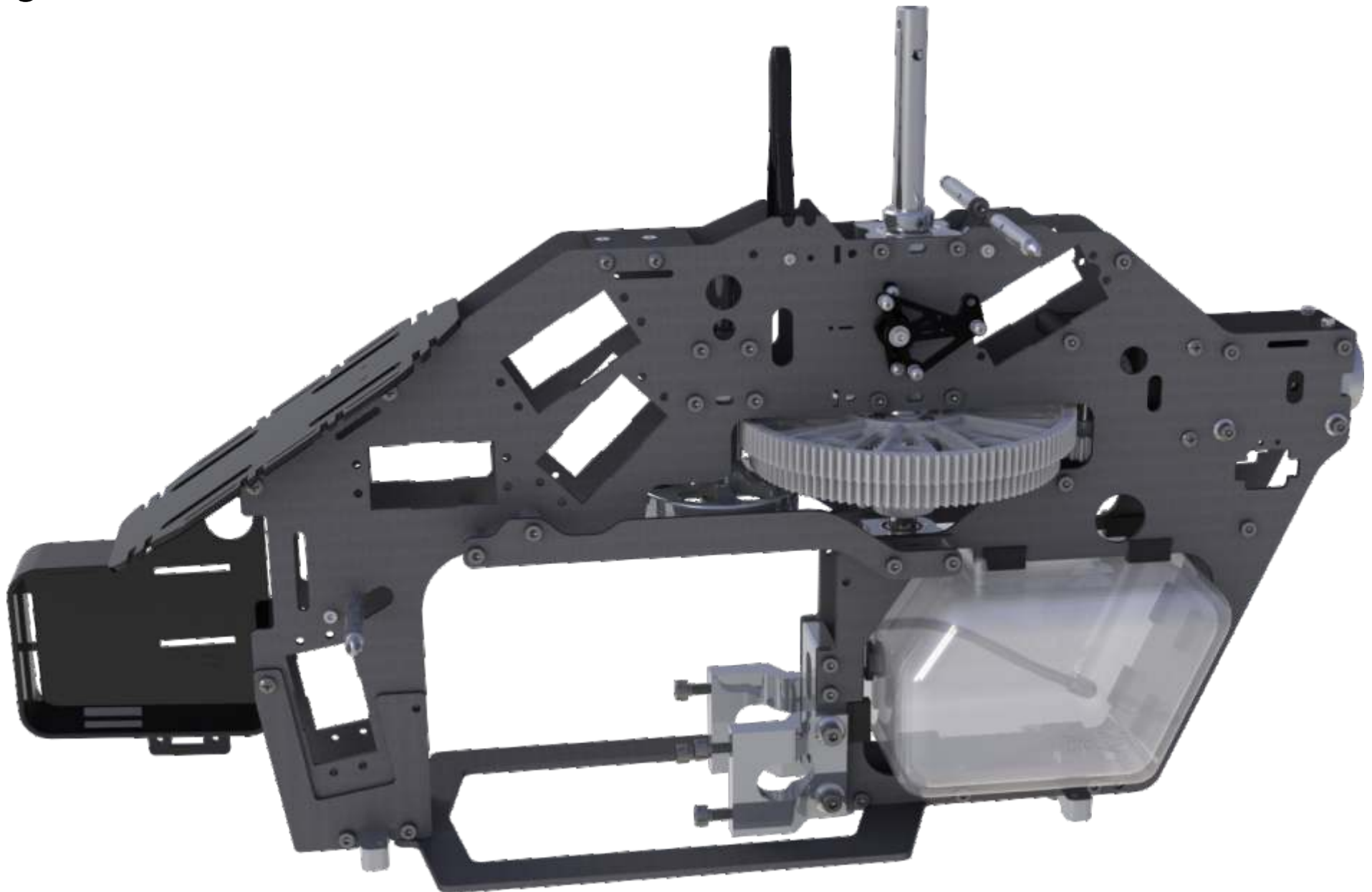
FR

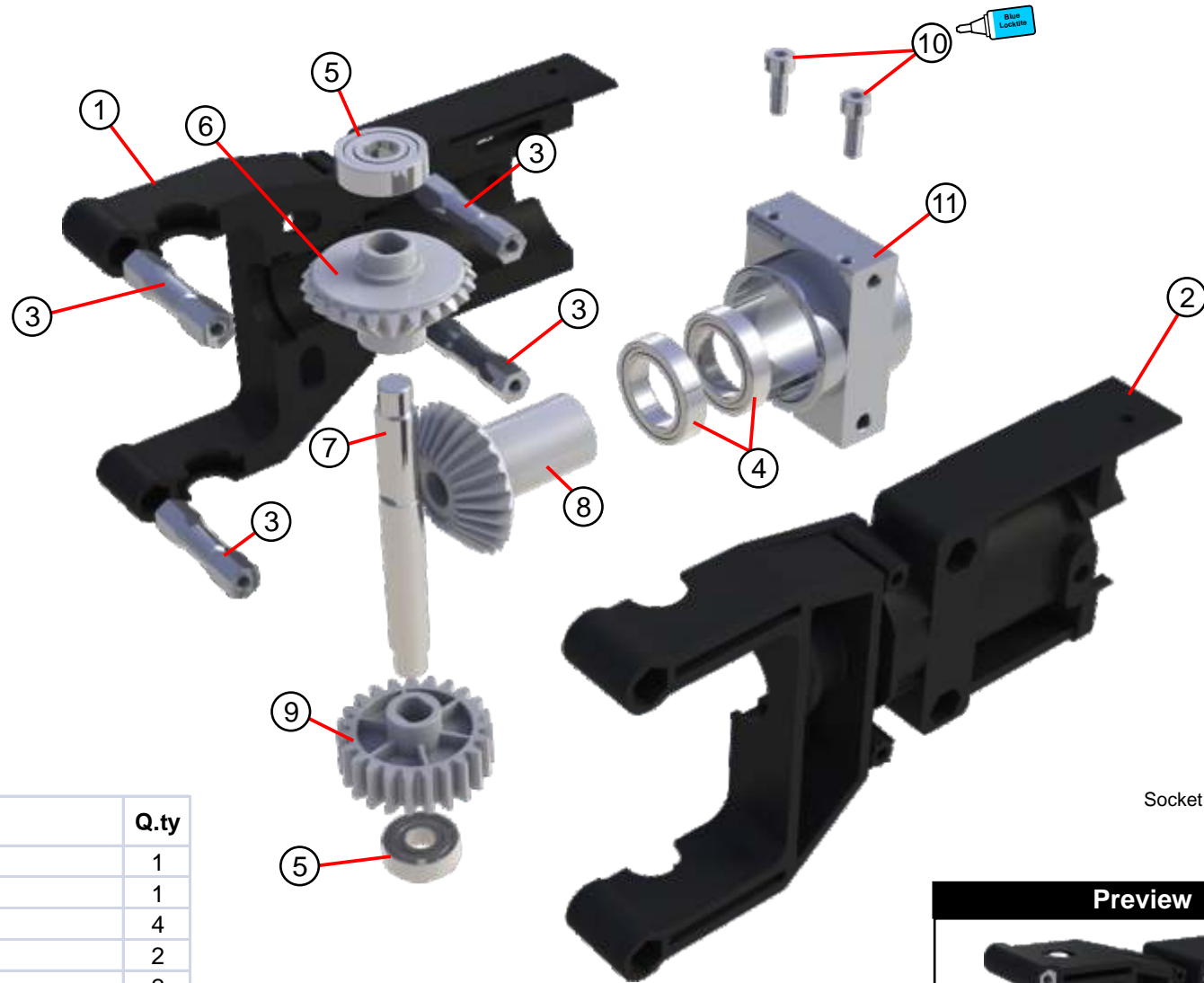
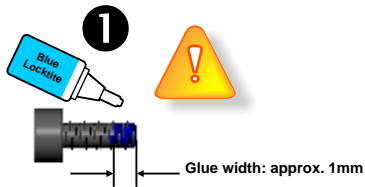


| Item | Code | Description | Q.ty |
|------|----------|-----------------------------------|------|
| 1 | 8003100A | Fuel tank stopper | 1 |
| 2 | 8004400A | Fuel tank nipple | 1 |
| 3 | 8002103A | Fuel Tank Plug (V90c) | 1 |
| 4 | 8001503A | Fuel Tank (V90c) | 1 |
| 5 | 8011000A | Silicon fuel tube L=80mm d2.5, D6 | 1 |
| 6 | 8103600A | Fuel Clunk | 1 |
| 7 | 8402700A | Fuel Tank Assy (V90c) | |







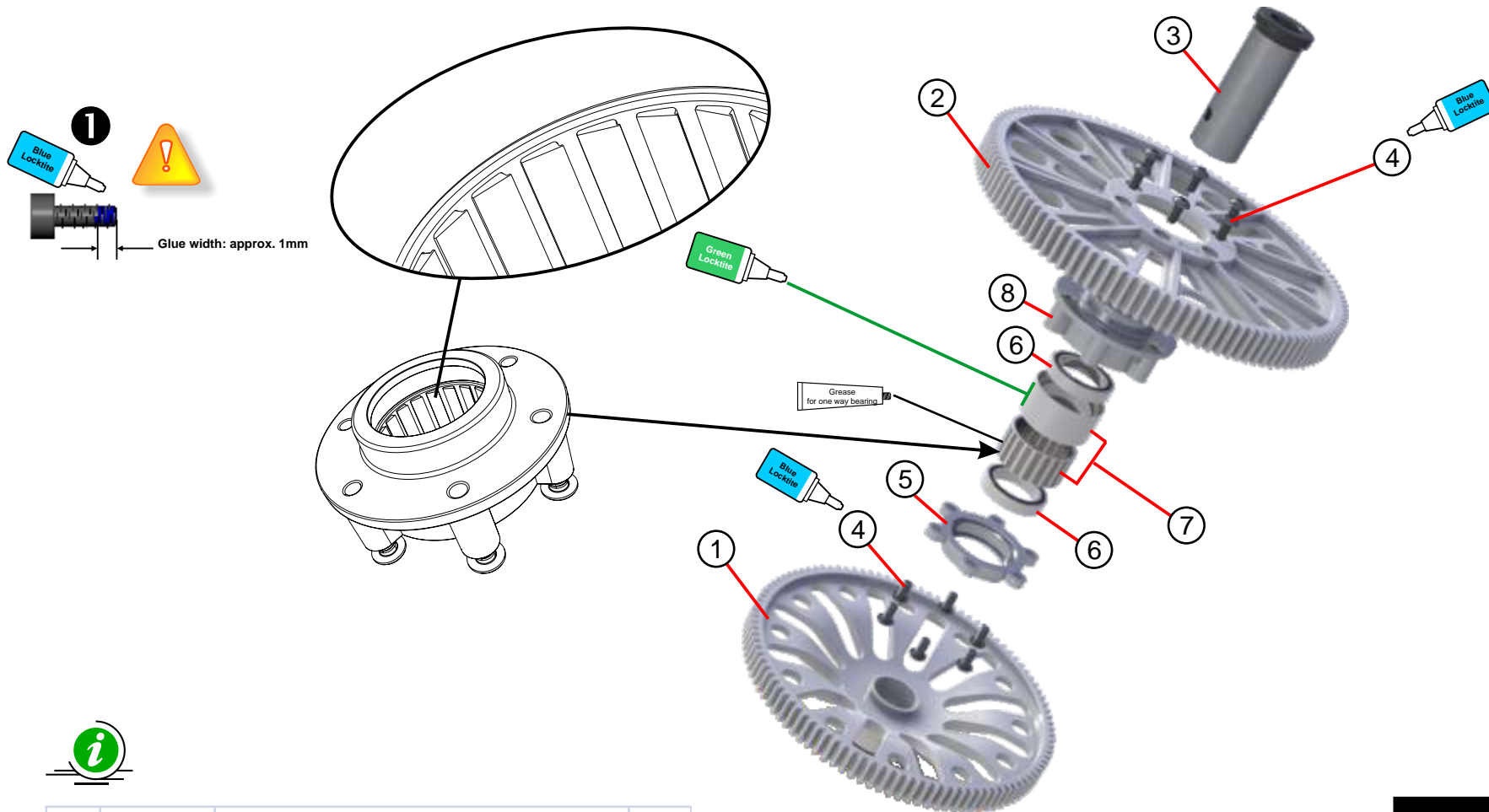


11 
Socket screw M2.5x8 (x2)



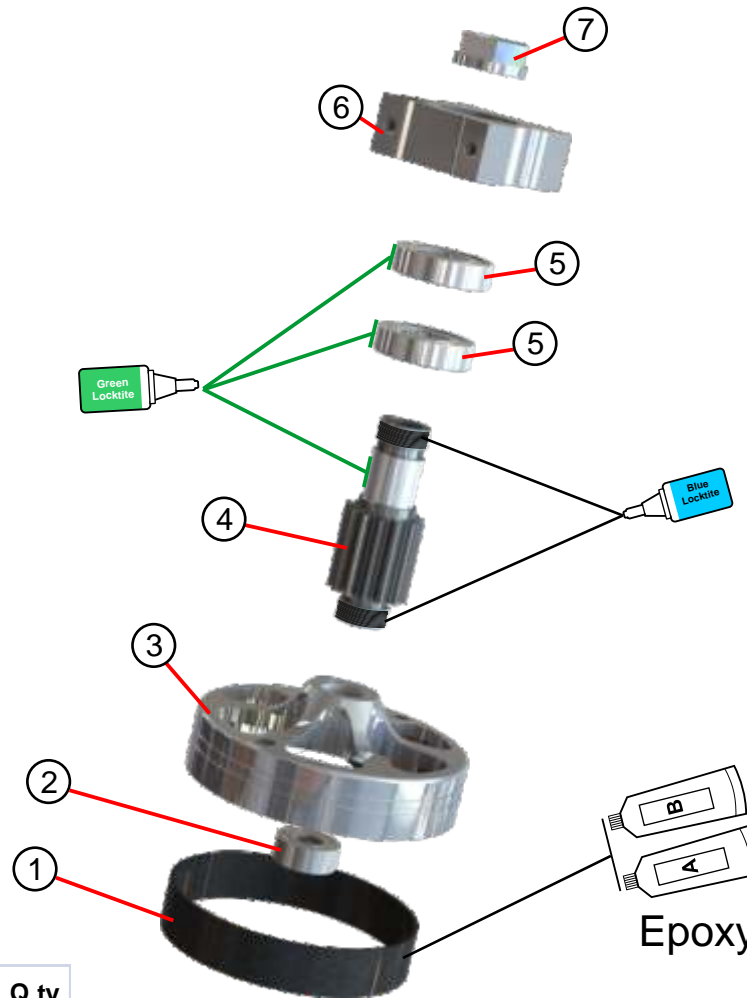
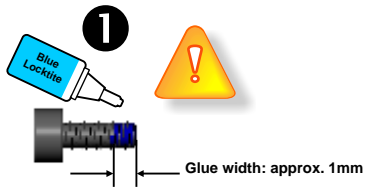
| Item | Code | Description | Q.ty |
|------|----------|---------------------------------|------|
| 1 | 8000603A | Tail Boom Mount V90c (R) | 1 |
| 2 | 8000503A | Tail Boom Mount V90c (L) | 1 |
| 3 | 8100803A | 26mm Hex Mount | 4 |
| 4 | 8602400A | Bearing d12, D18, W4 | 2 |
| 5 | 8602900A | Bearing d5, D13, W4 | 2 |
| 6 | 8000703A | 24T Front Drive Bevel Gear | 1 |
| 7 | 8101503A | Front Drive Gear Shaft | 1 |
| 8 | 8000903A | 24T Front Drive Long Bevel Gear | 1 |
| 9 | 8002903A | 23T Front Drive Gear M1 (V90c) | 1 |
| 10 | 8204700A | Socket Screw M2.5 x 8 --- 8S | 2 |
| 11 | 8109400A | Tail Boom Clamp (V50c) | 1 |





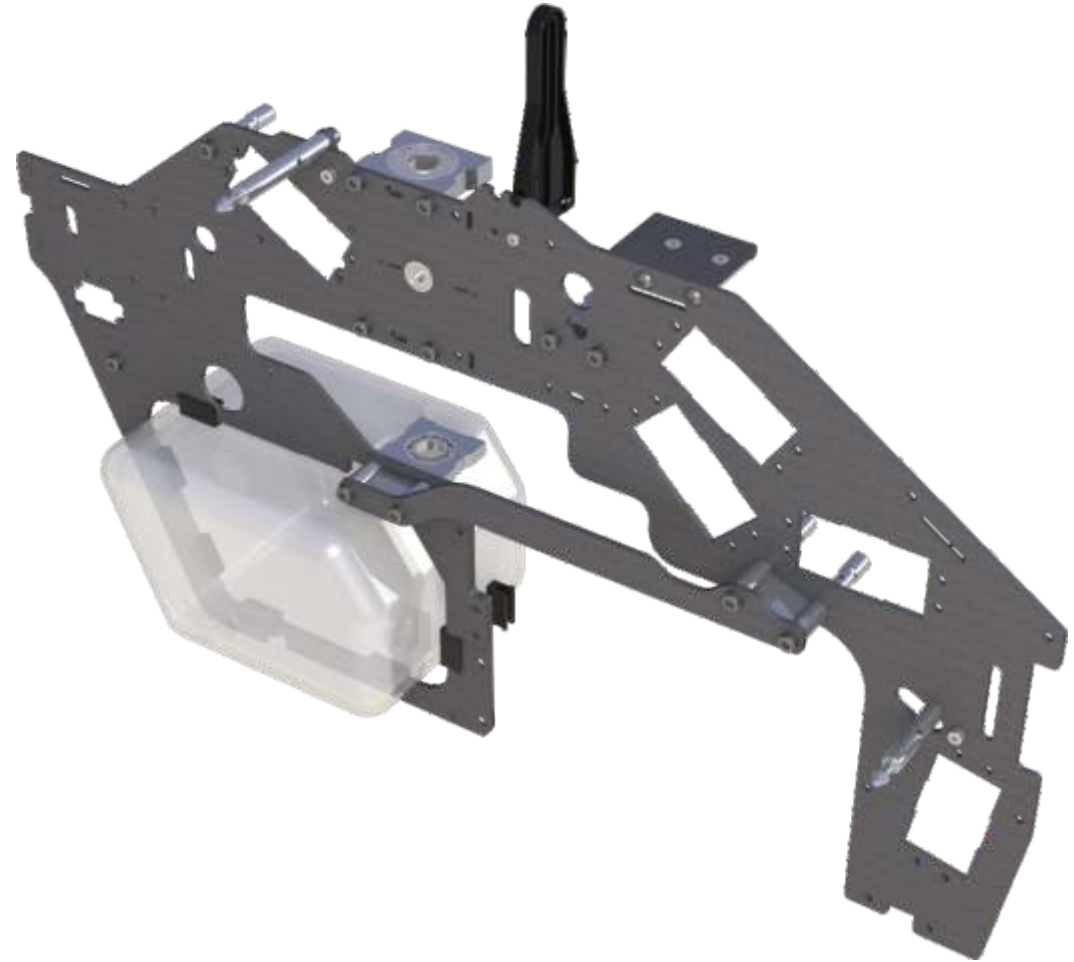
| Item | Code | Description | Q.ty |
|------|----------|----------------------------------|------|
| 1 | 8003003A | 104T Autorotation Gear M1 (V90c) | 1 |
| 2 | 8000203A | 115T Main Gear | 1 |
| 3 | 8106303A | OneWay Shaft d12 (V90c) | 1 |
| 4 | 8202400A | Socket Button Head Screw M3 x 6 | 12 |
| 5 | 8105303A | OneWay Bearing Mount (V90c) | 1 |
| 6 | 8602300A | Bearing d15, D21, W4 | 2 |
| 7 | 8604400A | OneWay Bearing (Sprag Type) | 1 |
| 8 | 8105403A | OneWay Housing (V90c) | 1 |

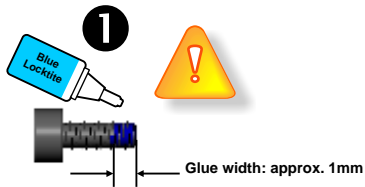




| Item | Code | Description | Q.ty |
|------|----------|-------------------------------------|------|
| 1 | 8003103A | Clutch Liner (V90c) | 1 |
| 2 | 8601000A | Bearing d6, D13, W5 | 1 |
| 3 | 8100603A | Clutch Bell (V90c) | 1 |
| 4 | 8100703A | 14T Pinion (V90c) | 1 |
| 5 | 8603100A | Bearing d10, D19, W5 | 2 |
| 6 | 8101403A | Bearing d10, D19, W5 Support (V90c) | 1 |
| 7 | 8100903A | Pinion Nut (V90c) | 1 |







8201800A Socket Screw M3x8



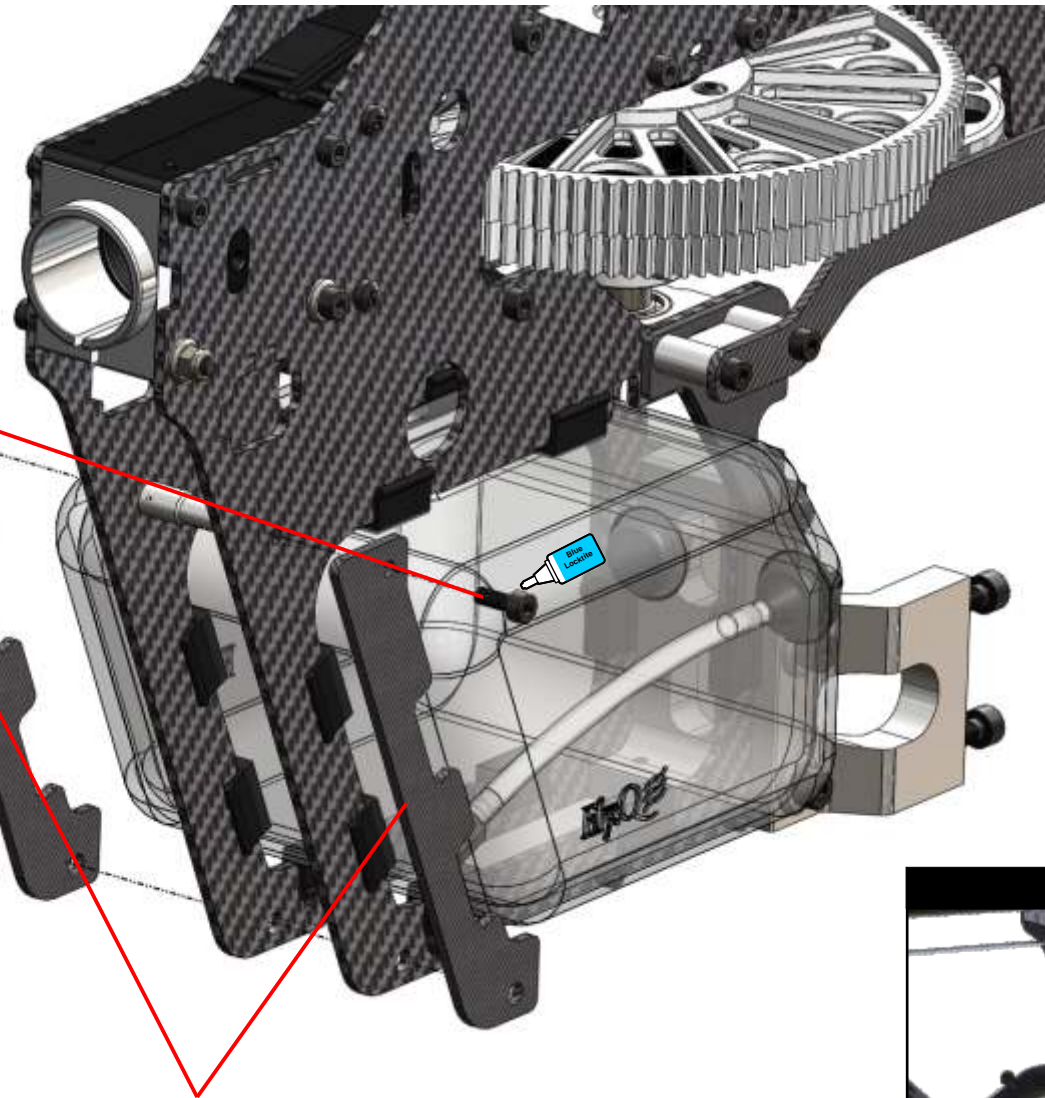
A Se il vostro kit contiene il frame di rinforzo mostrato nella figura accanto; seguire lo schema di montaggio illustrato e negli schemi successivi prevedere questa variante.

If your kit contains the reinforcement frame shown in the picture, please follow the illustrated mounting process and consider this variation also for the next schemes.

Wenn Ihr Bausatz den im Bild gezeigten Verstärkungsrahmen enthält, folgen Sie bitte dem abgebildeten Montageverlauf und verfahren in den folgenden Abschnitten ebenso.


Si votre kit contient le frame de renfort montré dans le image a coté, suivez-Vous le schème de montage illustré et prevoiez-Vous cette variante dans le passes suivantes.

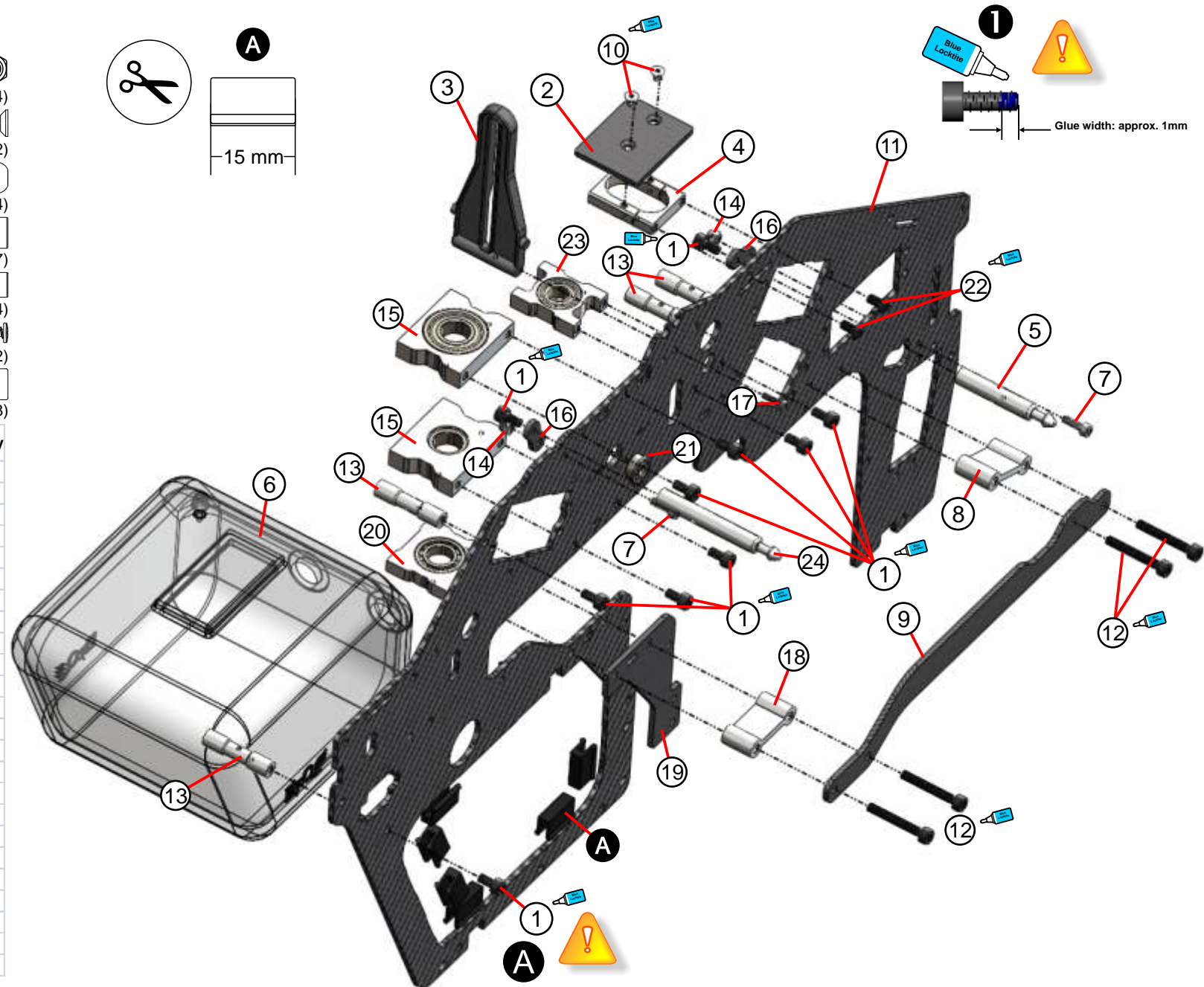
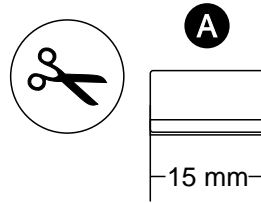
8004003A C.F. Rear Frame Brace (V90c)



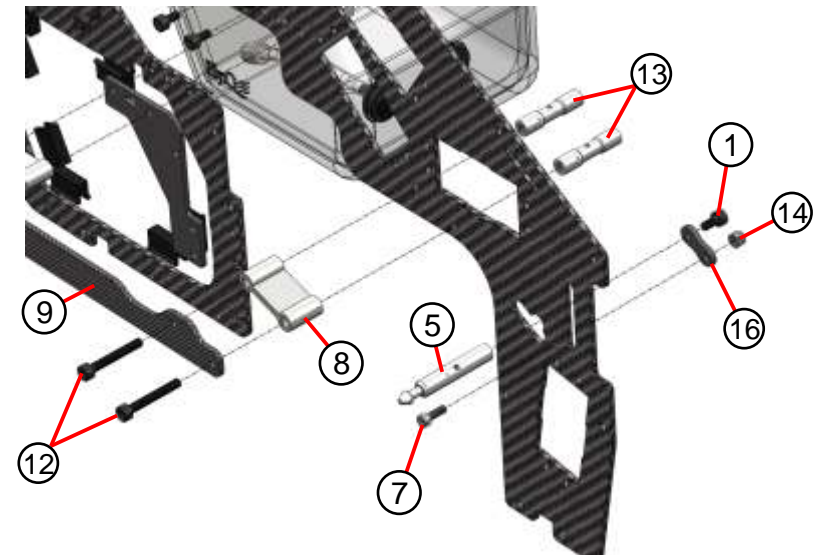
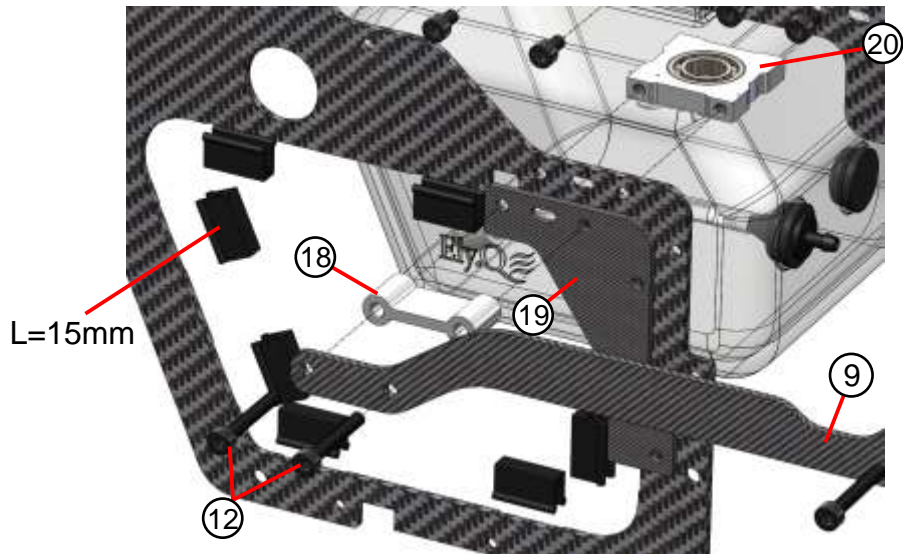
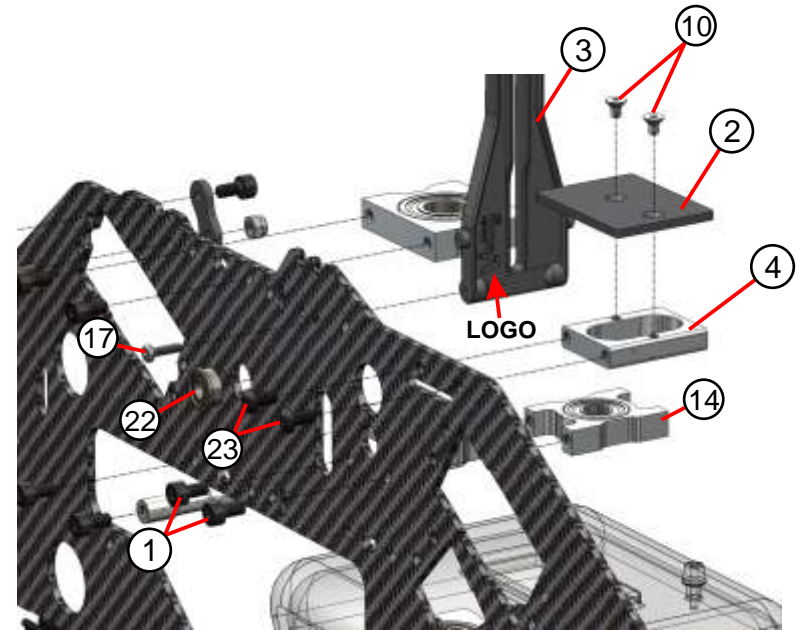
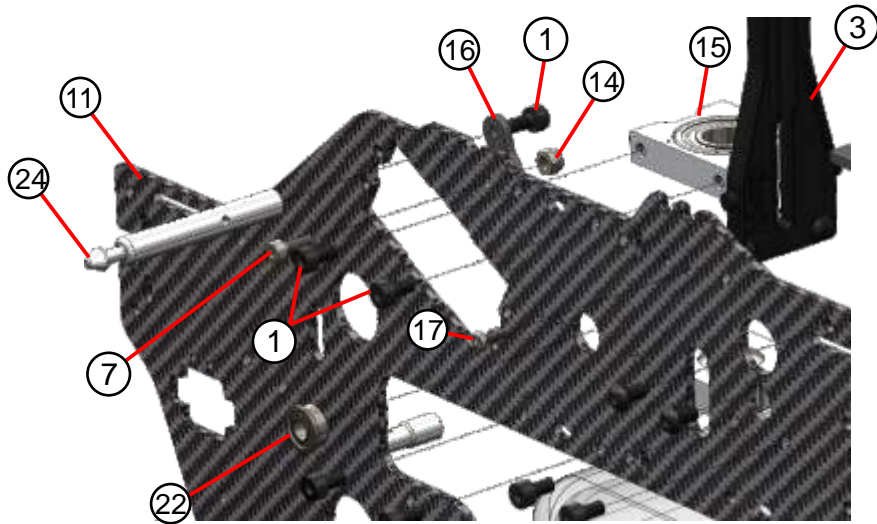
Socket screw M3x8 (x2)

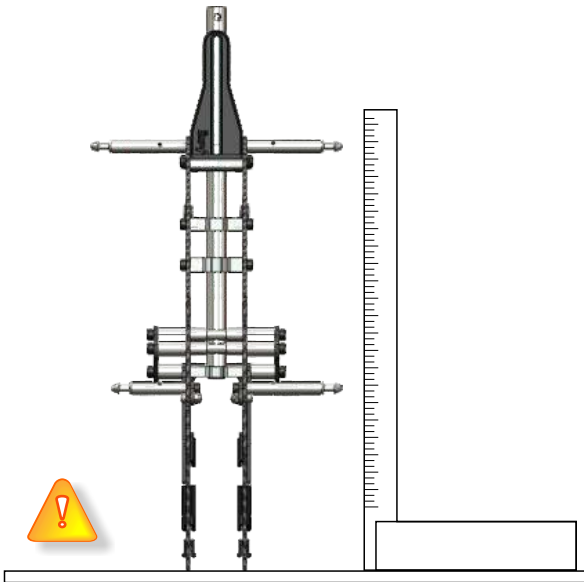


- ⑭ Lock Nut M2.5 (x4)
- ⑩ Countersunk Socket Screw M2.5x4 (x2)
- ⑳ Socket button head screw M3x6 (x4)
-  **A** ① Socket screw M3x6 (x37)
- ㉓ Socket screw M2.5x8 (x4)
- ⑰ Selftapping screw 2x8 (x2)
- ⑫ Socket screw M3x25 (x8)



| Item | Code | Description | Qty |
|------|----------|--|-----|
| 1 | 8205200A | Socket Screw MB x6 | 37 |
| 2 | 8002303A | Gyro MOUNT CF (V90c) | 1 |
| 3 | 8010500A | Antirotation (V50c) | 1 |
| 4 | 8103403A | Gyro Block (V90c) | 1 |
| 5 | 8109200A | Canopy MOUNTING (V50c) | 2 |
| 6 | 8402700A | Fuel Tank Assy (V90c) | 1 |
| 7 | 8204700A | Socket Screw M2.5 x8 | 4 |
| 8 | 8101303A | Frame Spacer Large (V90c) | 2 |
| 9 | 8001103A | Carbon Side Plate (V90c) | 2 |
| 10 | 8207100A | Countersunk Socket Screw M2.5x4 | 2 |
| 11 | 8001003A | Main Frame CF (V90c) | 2 |
| 12 | 8202800A | Socket Screw MB x25 | 8 |
| 13 | 8108900A | 26 mm spacer (V50c) | 5 |
| 14 | 8200800A | Lock Nut M2.5 | 4 |
| 15 | 8106103A | Main Rotor Brg Support d12, D24, W6 (V90c) | 2 |
| 16 | 8009700A | Carbon Breakout Tab (V50c) | 4 |
| 17 | 8202500A | Self Tapping screw 2x8 | 2 |
| 18 | 8109100A | Frame Spacer Medium (V50c) | 2 |
| 19 | 8001403A | Carbon Support Frame (V90c) | 2 |
| 20 | 8105903A | Brg Support d10, D19, W5 (V90c) | 1 |
| 21 | 8603500A | Bearing Flange d4, D9, W4 | 2 |
| 22 | 8202400A | Socket Button Head Screw MBx6 | 4 |
| 23 | 8108300A | Bearing d6,D15,W5 Support (V50c) | 1 |
| 24 | 8105503A | Canopy MOUNTING Short (V90c) | 2 |





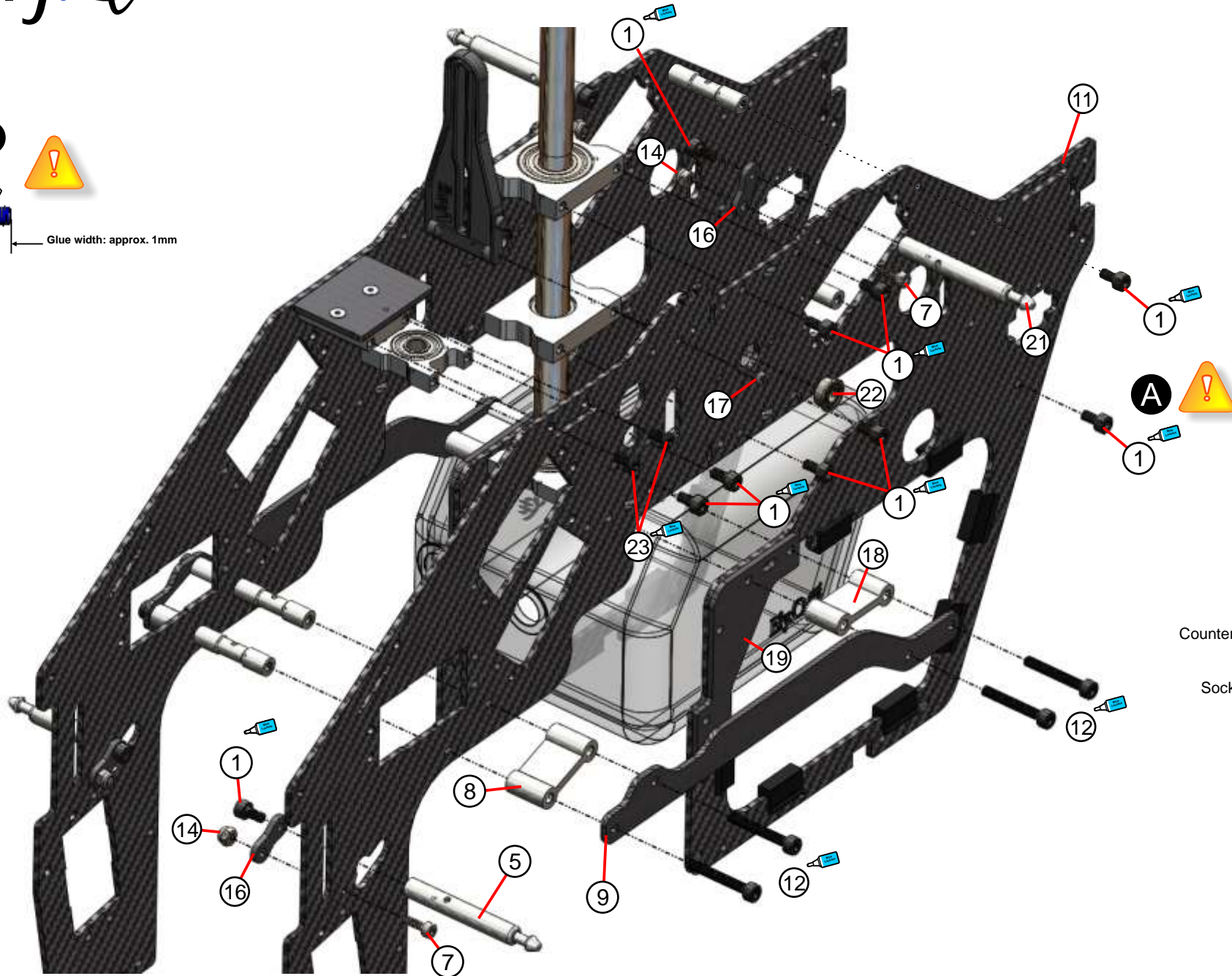
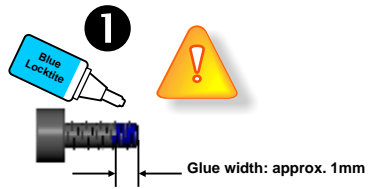
Il montaggio successivo prevede la chiusura del Main Frame sinistro con la struttura. Prima di serrare completamente l'assieme, inserire il Main Shaft per garantire il perfetto allineamento dei cuscinetti e, dopo aver poggiato la struttura su un piano di vetro, assicurarsi che la struttura sia normale al piano. Solo dopo questo controllo provvedere al serraggio completo delle viti.








Next step is the locking up of the left Main Frame with the structure. Before tightening the assy completely, please insert the Main Shaft to ensure perfect alignment of the bearing blocks and, after having put the structure on a glass surface, make sure that the frames are perpendicular to this surface. Complete tightening of the screws only after having double checked this.

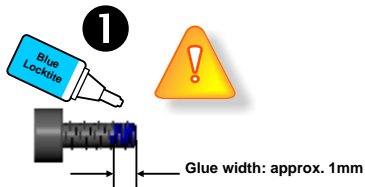
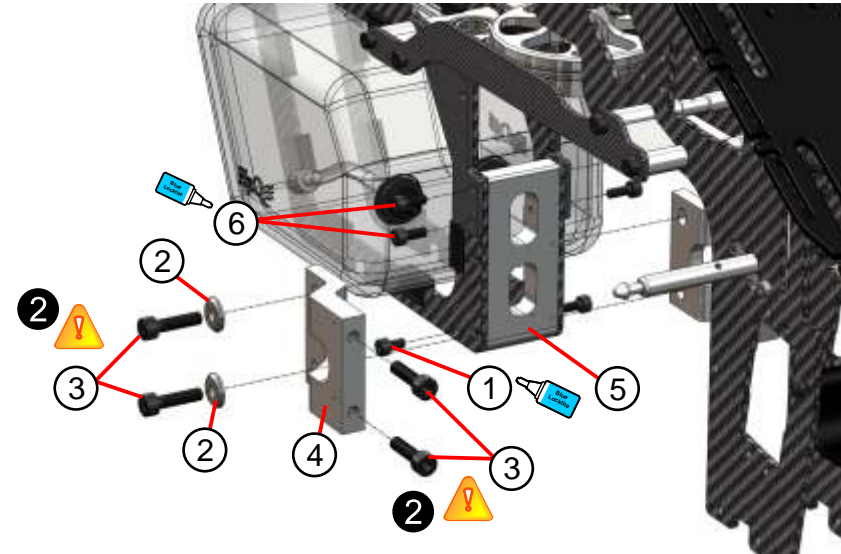
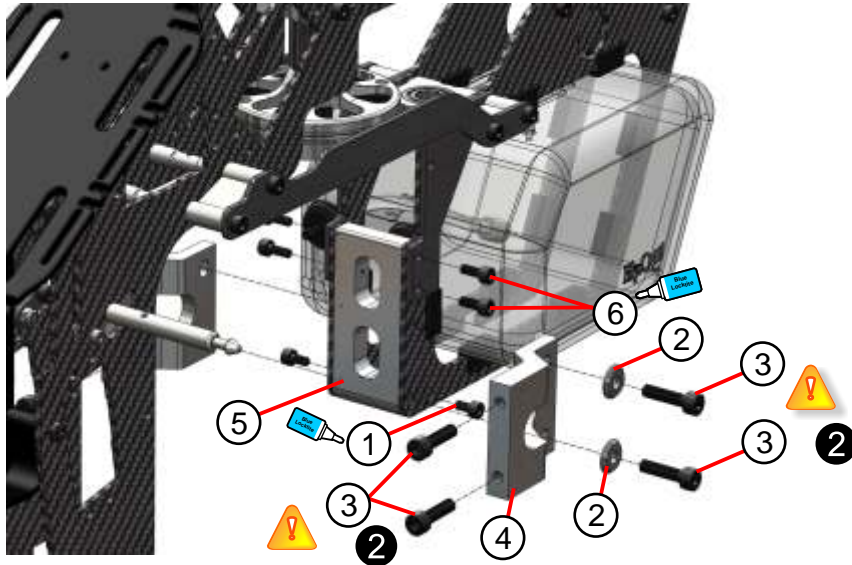
Im nächste Schritt verbinden Sie den linken Hauptrahmen mit dem Chassis. Bevor das komplette Chassis fest verschraubt wird, führen Sie die Hauptrotorwelle in das Chassis ein um eine perfekte Ausrichtung der Lagerböcke sicherzustellen. Stellen Sie das Chassis nun auf eine Glasfläche und kontrollieren Sie, ob das Chassis im rechten Winkel zur Glasfläche steht. Ziehen Sie die Schrauben erst nach dieser Kontrolle fest.


Le montage suivant nécessite la clôture du Main Frame gauche avec la structure. Avant de serrer complètement l'assemblage, insérez-vous le Main Shaft pour vous assurer du parfait alignement des roulements, et après avoir posé la structure sur un plan de verre, assurez-vous que la structure est perpendiculaire au plan. Seulement après cet contrôle procéder-vous à le serrage des vis. Ne pas fermer les vis. Elles sont a fermer durant le montage du moteur et après la procédure de alignement."





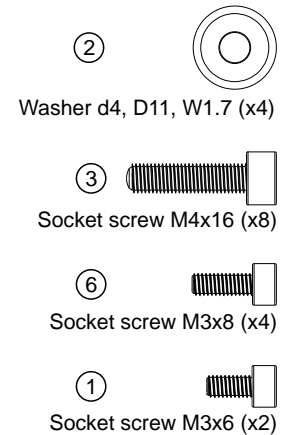
- 14  Lock Nut M2.5 (x4)
- 10  Countersunk Socket Screw M2.5x4 (x2)
- 23  Socket button head screw M3x6 (x4)
- 1  Socket screw M3x6 (x37)
- 23  Socket screw M2.5x8 (x4)
- 17  Selftapping screw 2x8 (x2)
- 12  Socket screw M3x25 (x8)



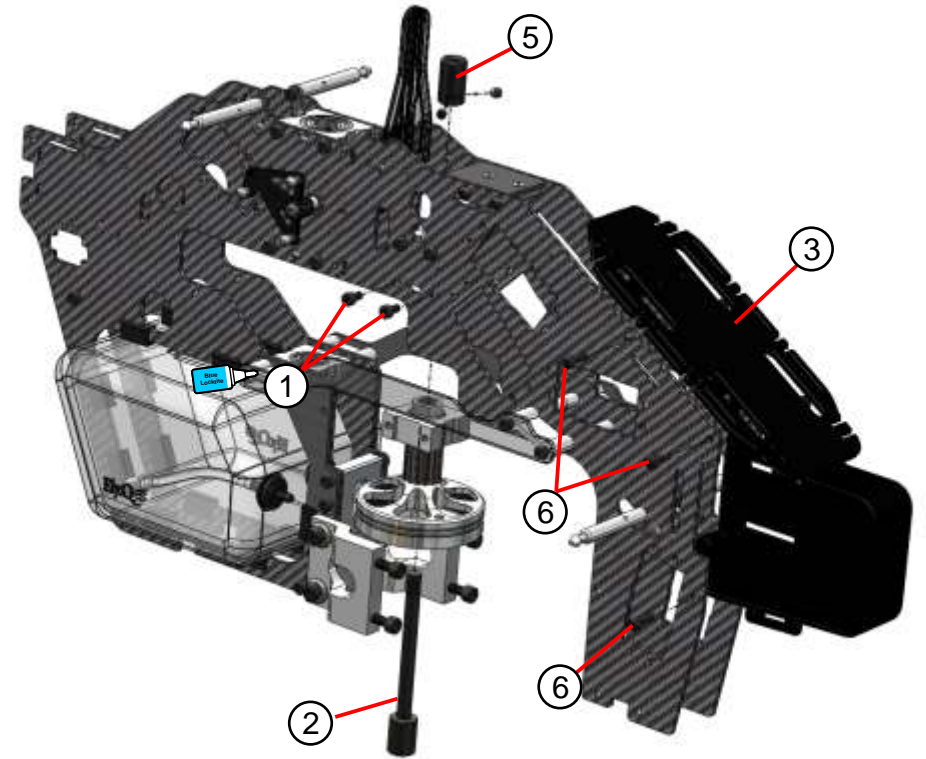
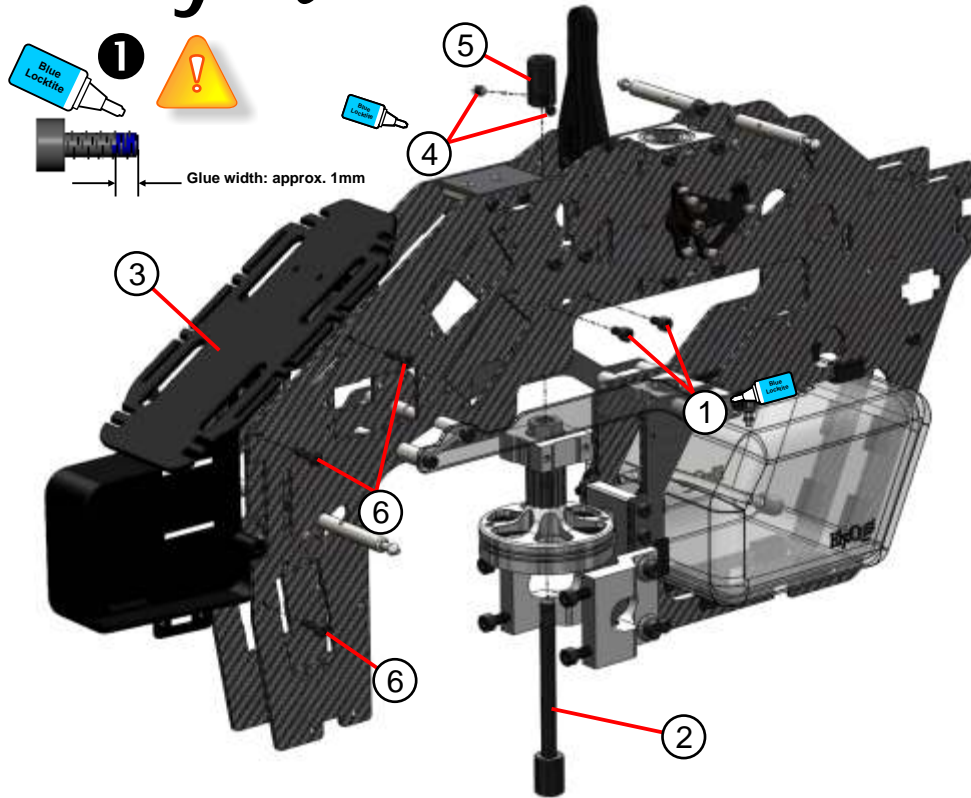
1  **2** Non serrare le viti; queste verranno completamente fissate nella fase di montaggio del motore e dopo la procedura di allineamento.

Do not tighten the screws: they will be completely fixed during the engine mounting process and after the alignment procedure.

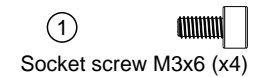
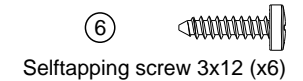
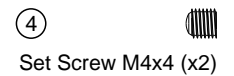
Ziehen Sie die Schrauben noch nicht fest: Sie werden erst im späteren Verlauf der Motormontage und Motorausrichtung fest angezogen.

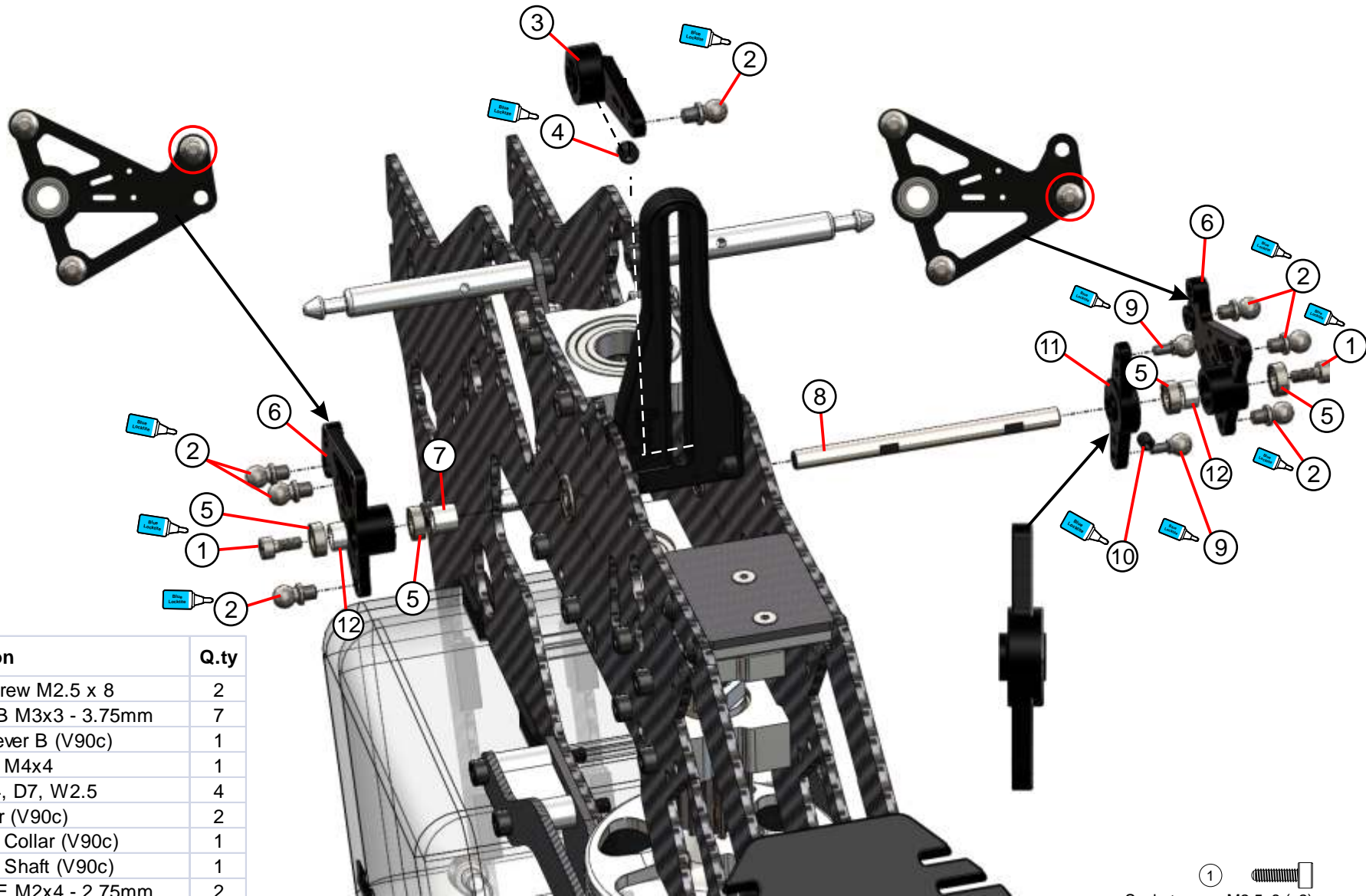
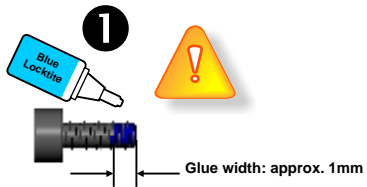


| Item | Code | Description | Q.ty |
|------|----------|------------------------------|------|
| 1 | 8205200A | Socket Screw M3 x 6 --- 6S | 2 |
| 2 | 8201400A | Flat Washer d4, D11, W1.7 | 4 |
| 3 | 8206200A | Socket Screw M4 x 16 --- 16N | 8 |
| 4 | 8100303A | Motor Mount Side (V90c) | 2 |
| 5 | 8100203A | Motor Mount Center (V90c) | 1 |
| 6 | 8201800A | Socket Screw M3 x 8 --- 8S | 4 |

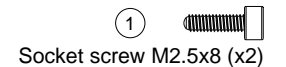


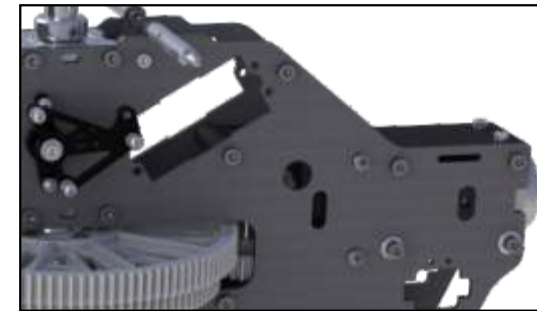
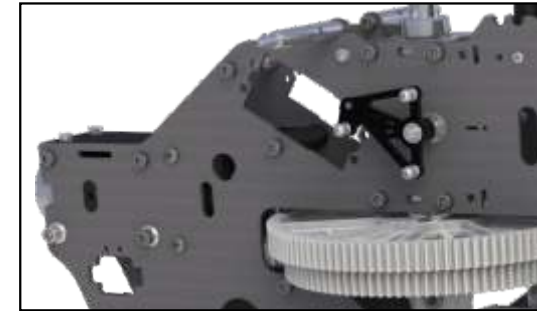
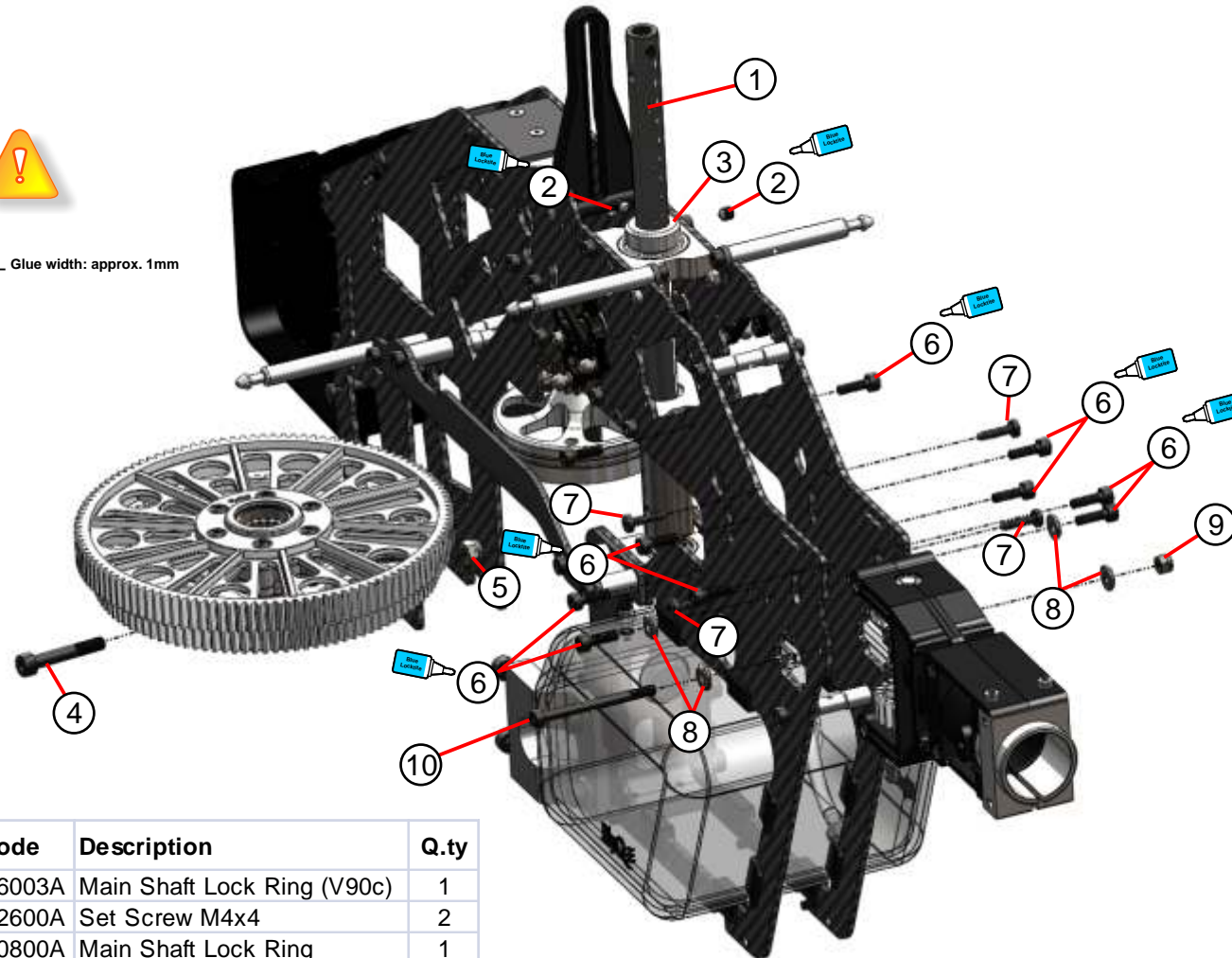
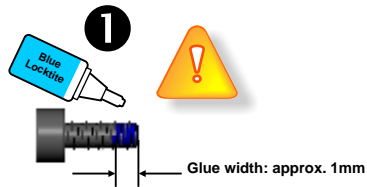
| Item | Code | Description | Q.ty |
|------|----------|----------------------------|------|
| 1 | 8205200A | Socket Screw M3 x 6 --- 6S | 4 |
| 2 | 8101103A | Starter Shaft (V90c) | 1 |
| 3 | 8010100A | Radio Tray V2 (V50c) | 1 |
| 4 | 8204600A | Set Screw - M4 x 4-S | 2 |
| 5 | 8100000A | Starter Coupling | 1 |
| 6 | 8200000A | Self Tapping screw 3x12 | 6 |



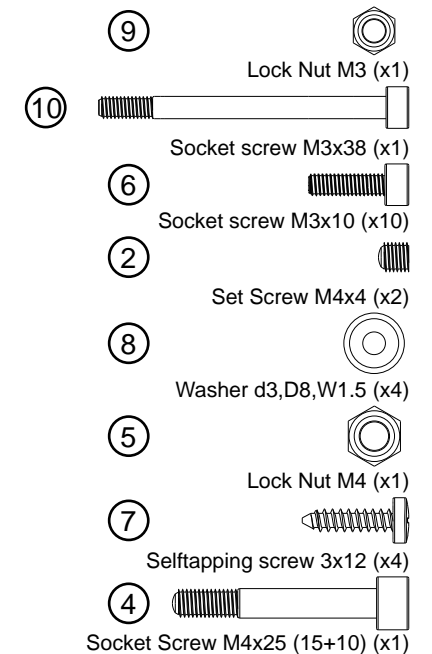


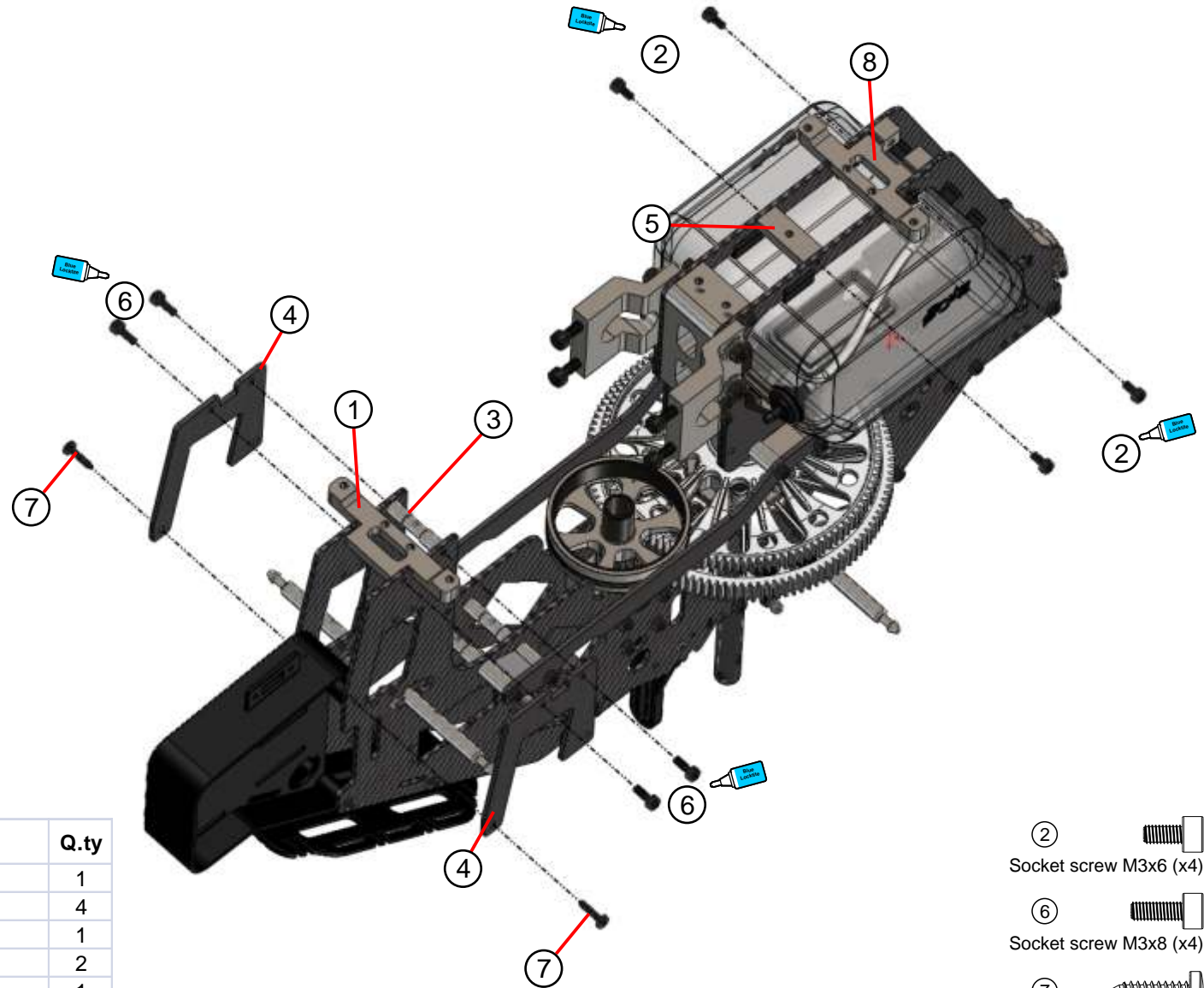
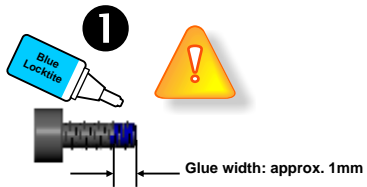
| Item | Code | Description | Q.ty |
|------|----------|--------------------------------|------|
| 1 | 8204700A | Socket Screw M2.5 x 8 | 2 |
| 2 | 8104100A | Ball Type B M3x3 - 3.75mm | 7 |
| 3 | 8102103A | Elevator Lever B (V90c) | 1 |
| 4 | 8204600A | Set Screw M4x4 | 1 |
| 5 | 8601100A | Bearing d4, D7, W2.5 | 4 |
| 6 | 8102203A | Pitch Lever (V90c) | 2 |
| 7 | 8101803A | Bell Crank Collar (V90c) | 1 |
| 8 | 8101903A | Bell Crank Shaft (V90c) | 1 |
| 9 | 8104400A | Ball Type E M2x4 - 2.75mm | 2 |
| 10 | 8200200A | Set Screw - M3 x 4 | 1 |
| 11 | 8102003A | Elevator Lever A (V90c) | 1 |
| 12 | 8107703A | Inner Bell Crank Collar (V90c) | 2 |



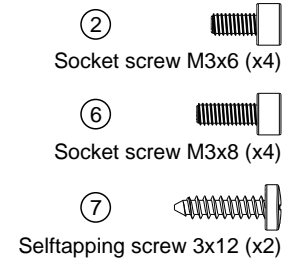


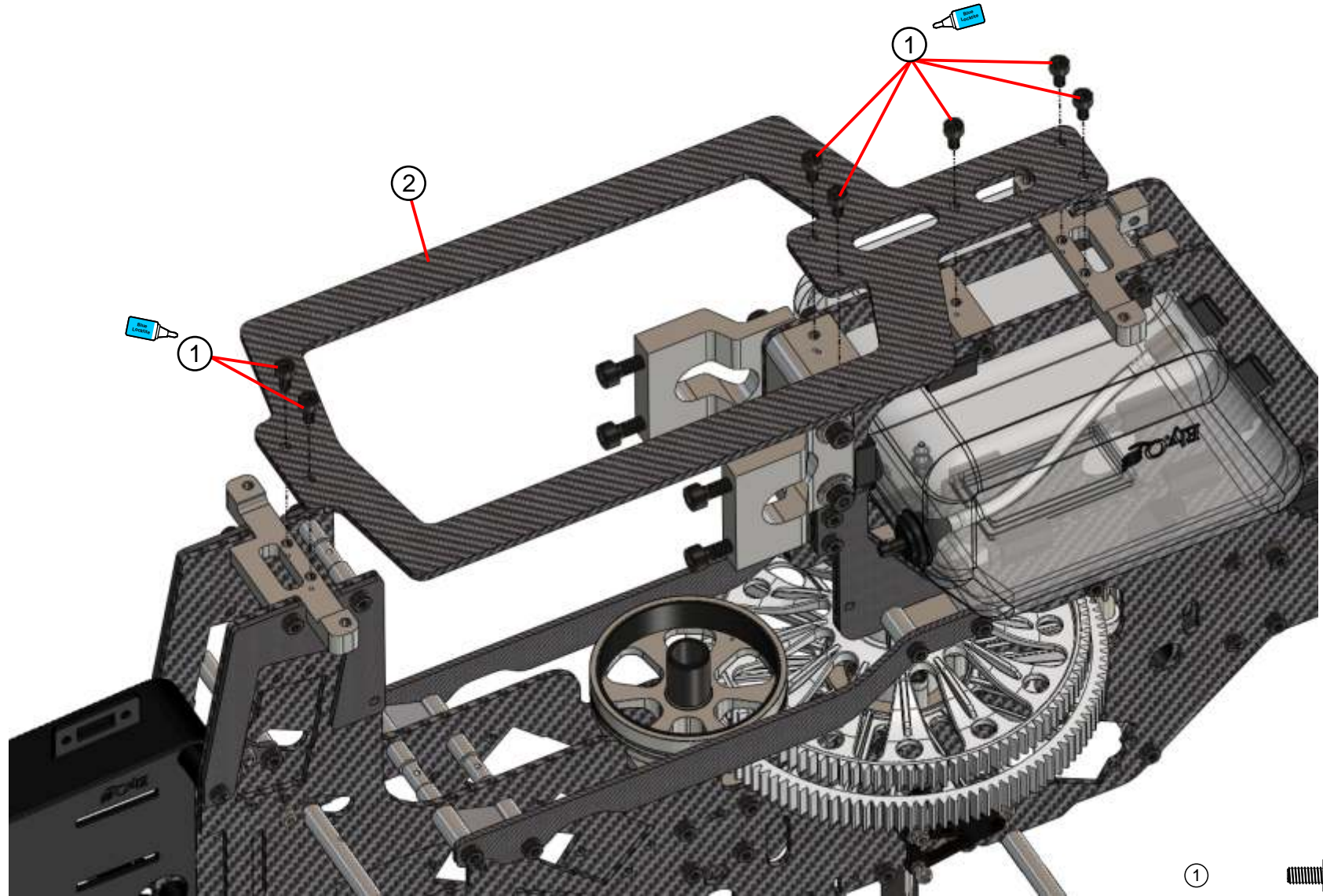
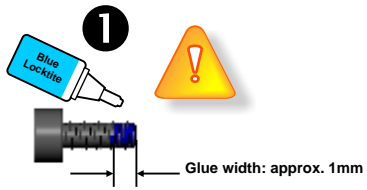
| Item | Code | Description | Q.ty |
|------|----------|-----------------------------|------|
| 1 | 8106003A | Main Shaft Lock Ring (V90c) | 1 |
| 2 | 8202600A | Set Screw M4x4 | 2 |
| 3 | 8100800A | Main Shaft Lock Ring | 1 |
| 4 | 8207300A | Socket Screw M4 x 25 - 10N | 1 |
| 5 | 8203100A | Lock Nut M4 | 1 |
| 6 | 8203900A | Socket Screw M3 x 10 | 10 |
| 7 | 8200000A | Self Tapping screw 3x12 | 4 |
| 8 | 8201200A | Flat Washer d3, D8, W1.5 | 1 |
| 9 | 8200400A | Hexagon Lock Nut M3 | 1 |
| 10 | 8205300A | Socket Screw M3 x 38 --- 8S | 1 |






| Item | Code | Description | Q.ty |
|------|----------|--------------------------------------|------|
| 1 | 8109300B | Landing Skid Brace Mount (V50c) | 1 |
| 2 | 8205200A | Socket Screw M3 x 6 | 4 |
| 3 | 8108900A | 26 mm spacer (V50c) | 1 |
| 4 | 8001603A | C.F. Frame Brace Set (V90c) | 2 |
| 5 | 8110300A | Bottom Reinforcement Block | 1 |
| 6 | 8201800A | Socket Screw M3 x 8 | 4 |
| 7 | 8200000A | Self Tapping screw 3x12 | 2 |
| 8 | 8105603A | Landing Skid Brace Mount Rear (V90c) | |

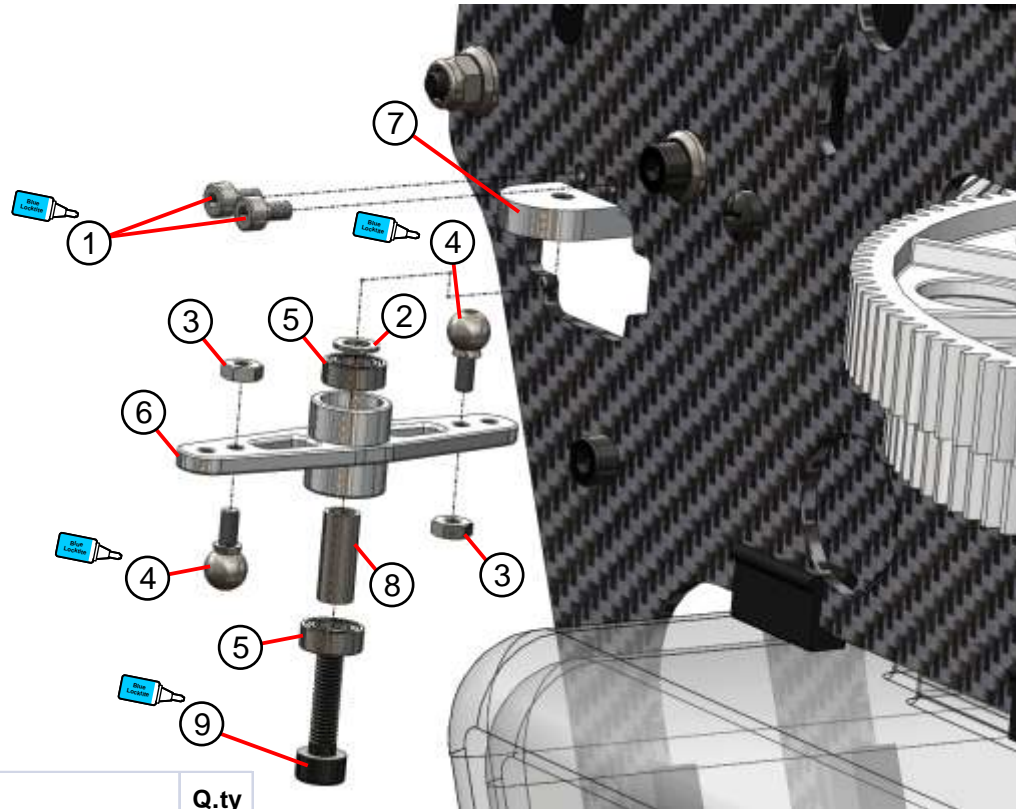
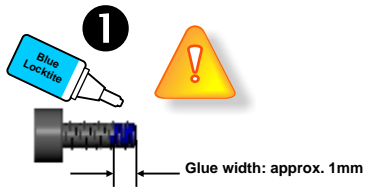








①  Socket screw M3x6 (x7)



| Item | Code | Description | Q.ty |
|------|----------|------------------------|------|
| 1 | 8205200A | Socket Screw M3 x 6 | 7 |
| 2 | 8001303A | Bottom Plate CF (V90c) | 1 |

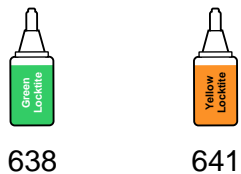
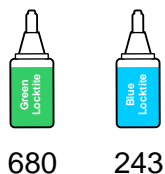
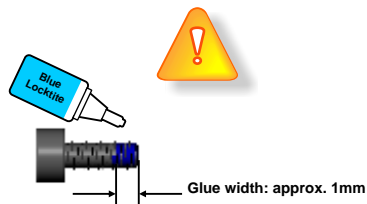


- ②  Flat Washer d3,D5,W0.5 (x1)
- ③  Nut M2 (x1)
- ①  Socket screw M2x4 (x2)
- ⑨  Socket screw M3x14 (x1)

| Item | Code | Description | Q.ty |
|------|----------|---------------------------------------|------|
| 1 | 8205100A | Socket Screw M2x4 | 2 |
| 2 | 8201300A | Flat Washer d3, D5, W0.5 | 1 |
| 3 | 8203000A | Hexagon Nut M2 | 2 |
| 4 | 8104400A | Ball Type E M2x4 - 2.75mm | 2 |
| 5 | 8601100A | Bearing d4, D7, W2.5 | 2 |
| 6 | 8106000A | Tail Rotor Bell Crank | 1 |
| 7 | 8108800A | Tail Rotor Bell Cranck Support (V50c) | 1 |
| 8 | 8101900A | Collar (d3, D4, W10) | 1 |
| 9 | 8200900A | Socket Screw M3x14 | 1 |



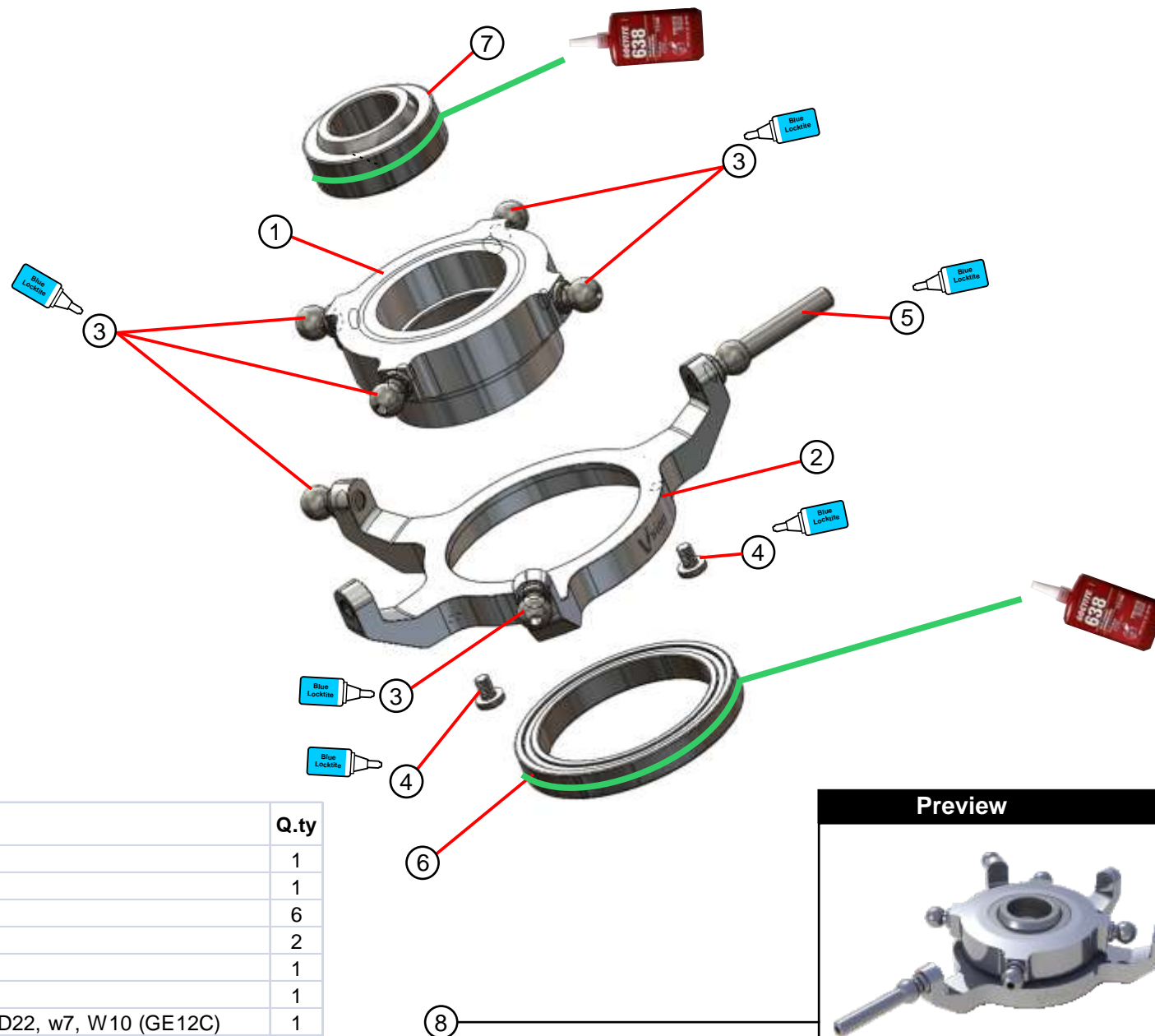
BAG EQ9011 Swash Plate d12 R1.00 Assy (V90c)



Retention of bearings onto shafts and into housings

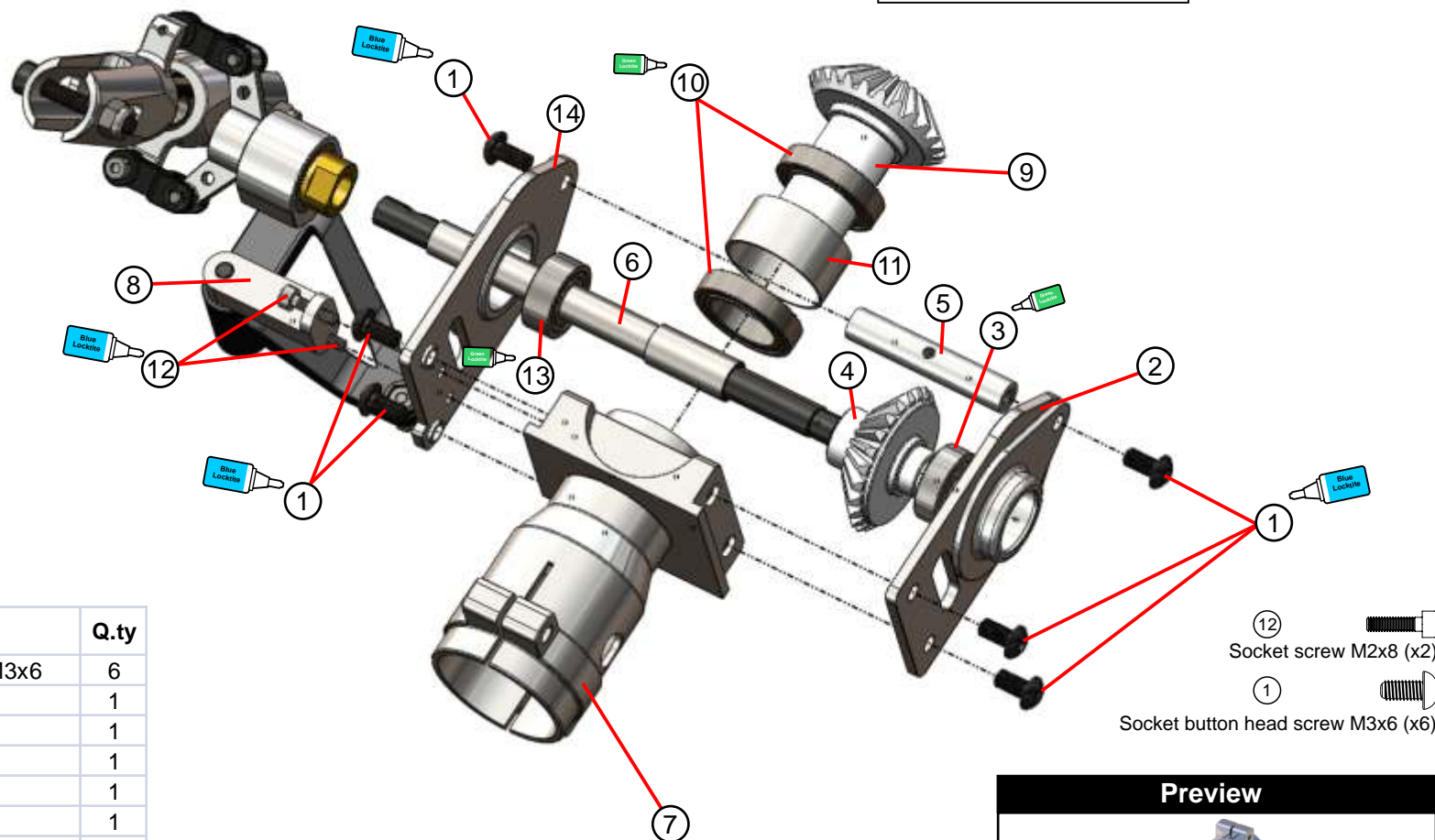
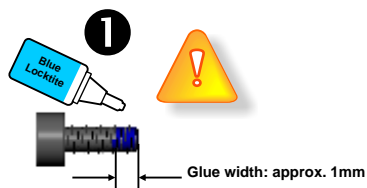


| Item | Code | Description | Q.ty |
|------|----------|---|------|
| 1 | 8106203A | SwashPlate Upper R1.00 (V90c) | 1 |
| 2 | 8106403A | SwashPlate Lower R1.00 (V90c) | 1 |
| 3 | 8104100A | Ball type B M3x3 - 3,75 mm | 6 |
| 4 | 8206300A | TC Screw M2 x 4 - Z --- 3S | 2 |
| 5 | 8104300A | Ball type D M3x3 - 20 mm | 1 |
| 6 | 8602200A | Bearing d25, D37, W7 | 1 |
| 7 | 8604200A | Radial Spher. Plain Bearing d12, D22, w7, W10 (GE12C) | 1 |
| 8 | 8402900A | Swash Plate d12 R1.00 Assy (V90c) | |



BAG EQ9014 Tail Unit Assy V90c Part 01

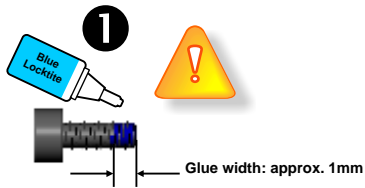
Already assembled by ElyQ.
Before flying, please check if the
screws are fixed with loctite.



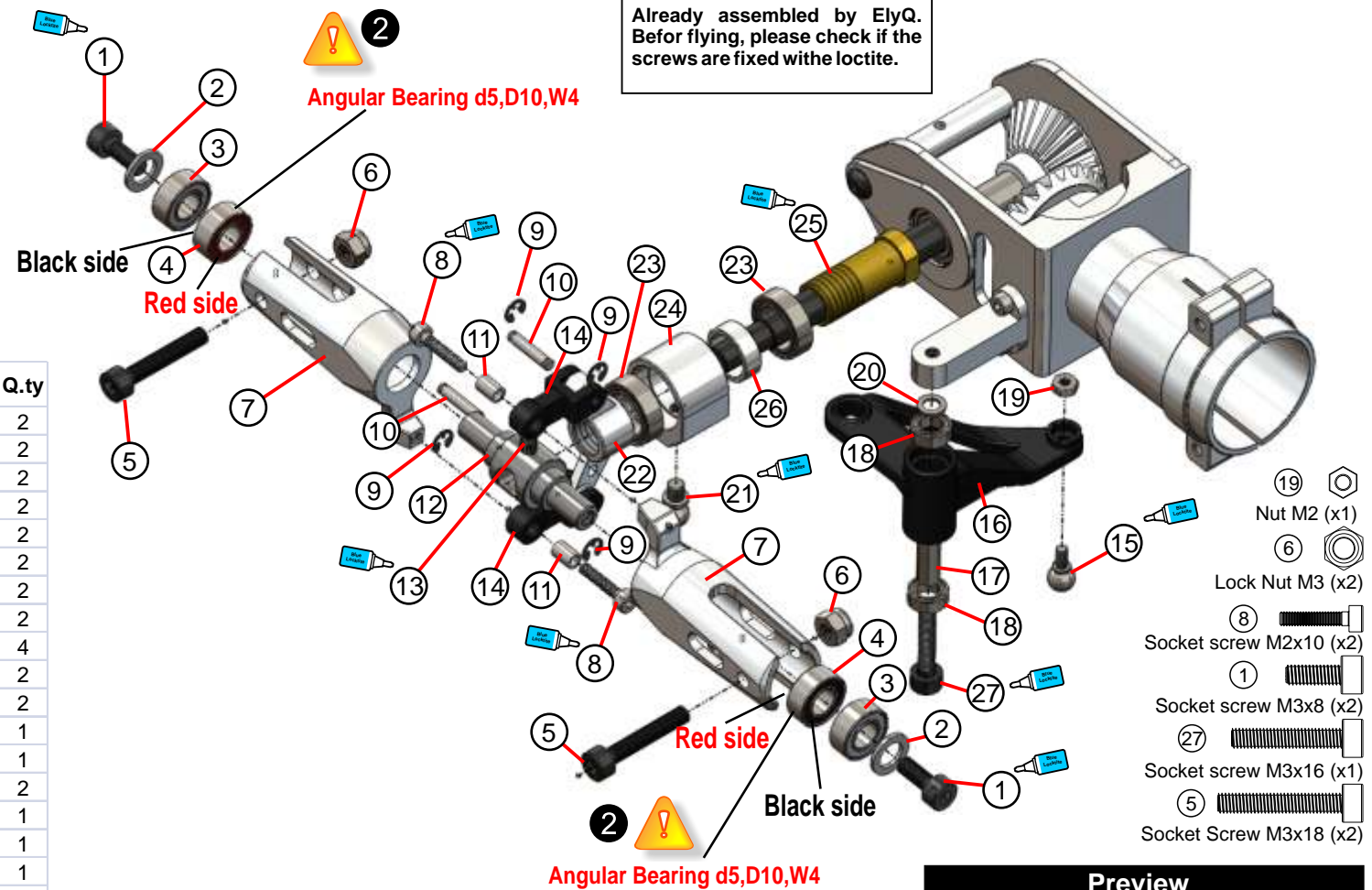
| Item | Code | Description | Q.ty |
|------|----------|---------------------------------|------|
| 1 | 8202400A | Socket Button Head Screw M3x6 | 6 |
| 2 | 8103603A | Metal Tail Plate (V90c) | 1 |
| 3 | 8602900A | Bearing d5, D13, W4 | 1 |
| 4 | 8000703A | 24T Front Drive Bevel Gear | 1 |
| 5 | 8103703A | 29mm Spacer | 1 |
| 6 | 8103803A | Tail Rotor Shaft (V90c) | 1 |
| 7 | 8103503C | Metal Tail Case (V90c) | 1 |
| 8 | 8111500A | Tail Control Arm (V50c TT) | 1 |
| 9 | 8000903A | 24T Front Drive Long Bevel Gear | 1 |
| 10 | 8602400A | Bearing d12, D18, W4 | 2 |
| 11 | 8110900A | Tail Spacer d17, D18, W9 | 1 |
| 12 | 8207800A | Socket Screw M2 x 8 (12.9) | 2 |
| 13 | 8601000A | Bearing d6, D13, W5 | 1 |
| 14 | 8106703A | Metal Tail Plate R (V90c) | 1 |



BAG EQ9014 Tail Unit Assy V90c Part 02



| Item | Code | Description | Q.ty |
|------|----------|---|------|
| 1 | 8201800A | Socket Screw M3x8 | 2 |
| 2 | 8205600A | Flat Washer d3, D8, W0.75 | 2 |
| 3 | 8600500A | Bearing d5, D10, W4 | 2 |
| 4 | 8602600A | Angular Bearing d5, D10, W4 | 2 |
| 5 | 8204000A | Socket Screw M3 x 18 | 2 |
| 6 | 8200400A | Hexagon Lock Nut M3 | 2 |
| 7 | 8106700A | Tail Rotor Housing (Metal) | 2 |
| 8 | 8205700A | Socket Screw M2 x 10 | 2 |
| 9 | 8200600A | E-ring | 4 |
| 10 | 8101700A | Pin 2x10 | 2 |
| 11 | 8101800A | Collar d2, D3, W4.3 | 2 |
| 12 | 8108103A | Tail Rotor Hub (V90c) | 1 |
| 13 | 8204600A | Set Screw - M4 x 4 | 1 |
| 14 | 8001900A | Tail Pitch Control Link | 2 |
| 15 | 8104400A | Ball Type E M2x4 - 2.75mm | 1 |
| 16 | 8002403A | Tail Pitch Control Lever (V90c) | 1 |
| 17 | 8101900A | Collar (d3, D4, W10) | 1 |
| 18 | 8601100A | Bearing d4, D7, W2.5 | 2 |
| 19 | 8203000A | Hexagon Nut M2 | 1 |
| 20 | 8201300A | Flat Washer d3, D5, W0.5 | 1 |
| 21 | 8104100A | Ball Type B M3x3 - 3.75mm | 1 |
| 22 | 8104003A | Metal Tail Fork (V90c) | 1 |
| 23 | 8603900A | Bearing d8, D12, W3.5 | 2 |
| 24 | 8104103A | Metal Tail Pitch Control Slider (V90c) | 1 |
| 25 | 8103903A | Metal Slide Tail Shaft (V90c) | 1 |
| 26 | 8104703A | Tail Pitch Control Slider Collar (V90c) | 1 |
| 27 | 8203800A | Socket Screw M3 x 16 (12.9) | 1 |



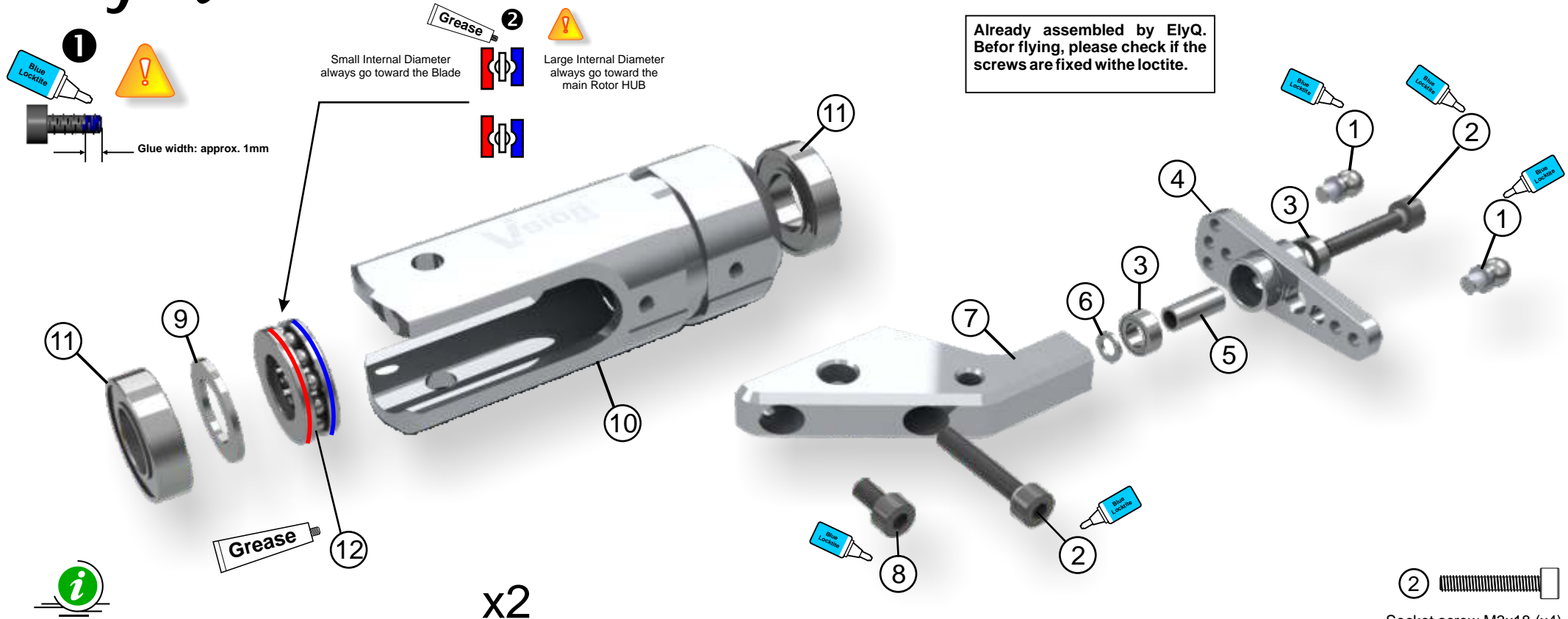
2 Controllare l'orientamento degli Angular Bearing durante l'assemblaggio. Assicurarsi che il lato identificato dal colore nero sia rivolto verso le pale di coda. Se si inverte il senso di inserimento si avrà la rottura di tutto il sistema.

Pay special attention to Angular Bearing inserting direction during the assembling process. Make sure side marked with black colour is oriented towards tail blades. Should you invert inserting direction this will lead to the whole structure break.

Geben Sie besonders bei der Montage der "Angular Bearings" acht. Stellen Sie sicher, dass die Seite mit der schwarzen Markierung in Richtung der Heckrotorblätter zeigt. Eine verkehrte Montage kann zu einer Fehlfunktion bzw. Bruch des Heckrotors führen.



BAG EQ9017 Main Rotor Grip Assy (V90c)

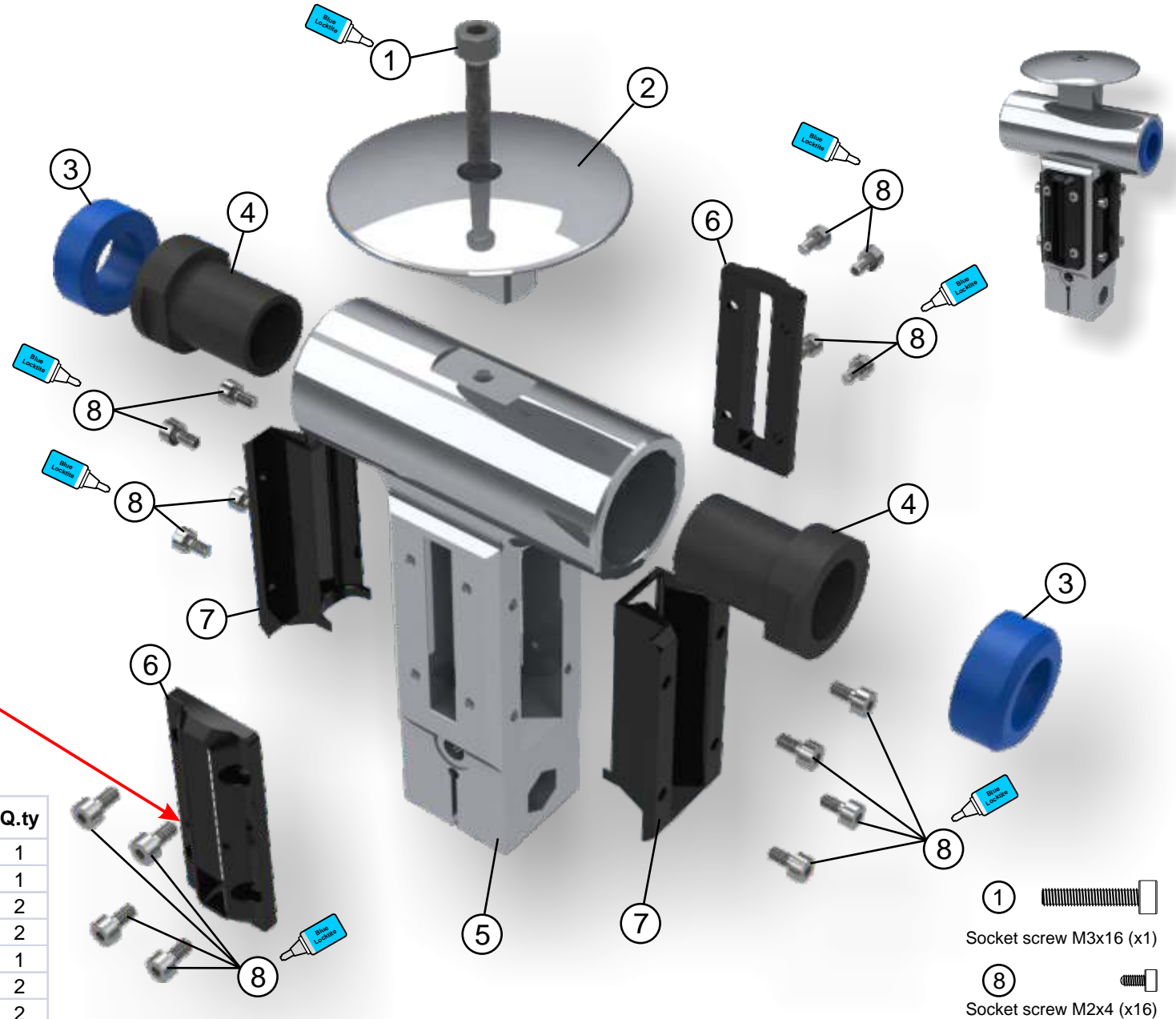
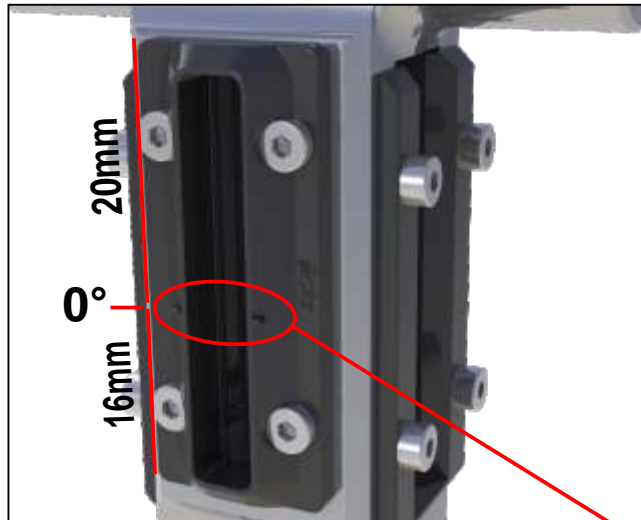
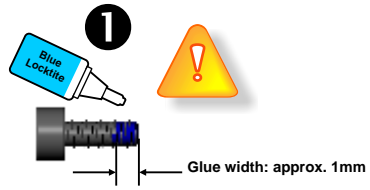


| Item | Code | Description | Q.ty |
|------|----------|----------------------------------|------|
| 1 | 8104100A | Ball Type B M3x3 - 3.75mm | 1 |
| 2 | 8204000A | Socket Screw M3 x 18 (12.9) | 2 |
| 3 | 8601100A | Bearing d4, D7, W2.5 | 2 |
| 4 | 8103103A | Mixer Lever Metal (V90c) | 1 |
| 5 | 8101900A | Collar (d3, D4, W10) | 1 |
| 6 | 8201300A | Flat Washer d3,D5,W0.5 | 1 |
| 7 | 8100103A | Main Blade Grip Arm V90 Aluminum | 1 |
| 8 | 8205200A | Socket Screw M3 x 6 (12.9) | 1 |
| 9 | 8206400A | Flat Washer d10, D15, W1 | 1 |
| 10 | 8100003A | Main Blade Grip V90 Aluminum | 1 |
| 11 | 8603100A | Bearing d10, D19, W5 | 2 |
| 12 | 8603700A | Thrust Bearing d10, D18, W5.5 | 1 |



- 2** Socket screw M3x18 (x4)
- 8** Socket screw M3x6 (x2)



Center HUB Assy (V90c)



| Item | Code | Description | Q.ty |
|------|----------|-----------------------------|------|
| 1 | 8203800A | Socket Screw M3 x 16 (12.9) | 1 |
| 2 | 8109700A | Head Stop (V50c) | 1 |
| 3 | 8001803A | Damper Blu (V90c) | 2 |
| 4 | 8002203A | Spindle Sleeve (V90c) | 2 |
| 5 | 8105703A | Center Hub (V90c) R2.00 | 1 |
| 6 | 8001903A | FlyBar Guide (V90c) | 2 |
| 7 | 8002003A | FlyBar SeeSaw Guide (V90c) | 2 |
| 8 | 8205100A | Socket Screw M2 x 4 | 16 |

- 1  Socket screw M3x16 (x1)
- 8  Socket screw M2x4 (x16)

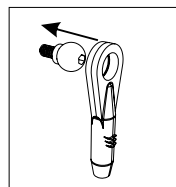
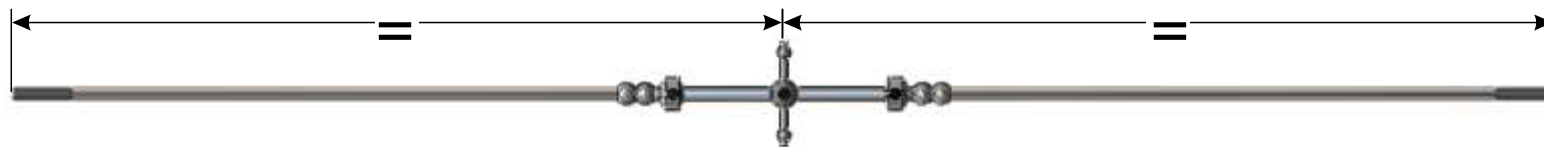
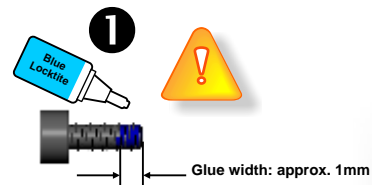
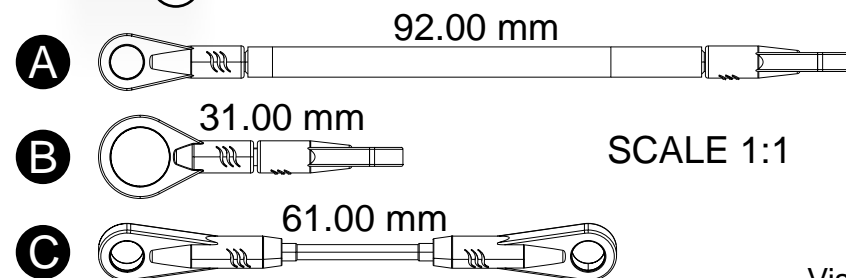
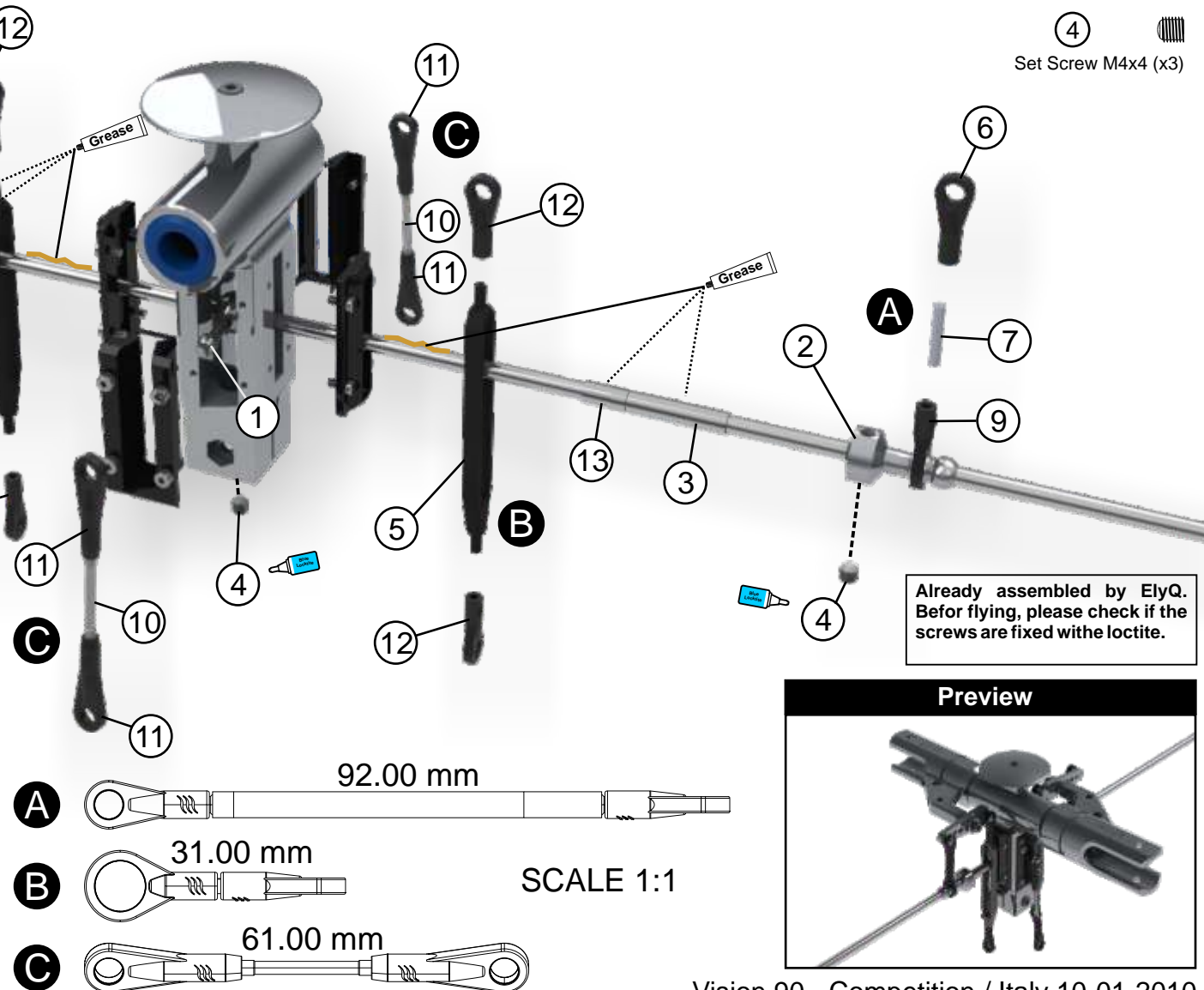


Fig. 1

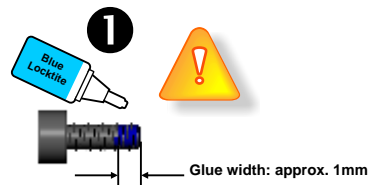


| Item | Code | Description | Q.ty |
|------|----------|----------------------------|------|
| 1 | 8103303A | Flybar Seesaw Lever (V90c) | 1 |
| 2 | 8102803A | Control Flybar Rod (V90c) | 2 |
| 3 | 8103203A | Flybar Collar (V90c) | 2 |
| 4 | 8204600A | Set Screw - M4 x 4-S | 3 |
| 5 | 8102703A | Control FlyBar (V90c) | 2 |
| 6 | 8002800B | Ball Link B V2 | 6 |
| 7 | 8103200A | Link M2.3x14mm | 2 |
| 8 | 8102903A | Flybar (V90c) | 1 |
| 9 | 8001703A | Ball Link C | 2 |
| 10 | 8103003A | Link M2.3x40mm | 2 |
| 11 | 8002700B | Ball Link A V2 | 4 |
| 12 | 8003203A | Plastic Ball Link M3 | 4 |
| 13 | 8106603A | Inner Flybar Collar (V90c) | 2 |

④ Set Screw M4x4 (x3)



Center HUB Assy (V90c)



Socket Screw M6x16 (x2)



Flat Washer d6, D13, W1.7 (x2)



8206800A Lock Nut M5 (x2)



Socket Screw M5 x 35 - 15N (x2)



| Item | Code | Description | Q.ty |
|------|----------|----------------------------|------|
| 1 | 8206600A | Socket Screw M6x16 | 2 |
| 2 | 8206700A | Flat Washer d6, D13, W1.7 | 2 |
| 3 | 8206800A | Lock Nut M5 | 2 |
| 4 | 8206900A | Socket Screw M5 x 35 - 15N | 2 |
| 5 | 8206400A | Flat Washer d10, D15.5, W1 | 2 |
| 6 | 8102603A | Spindle (V90c) | 1 |

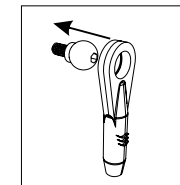
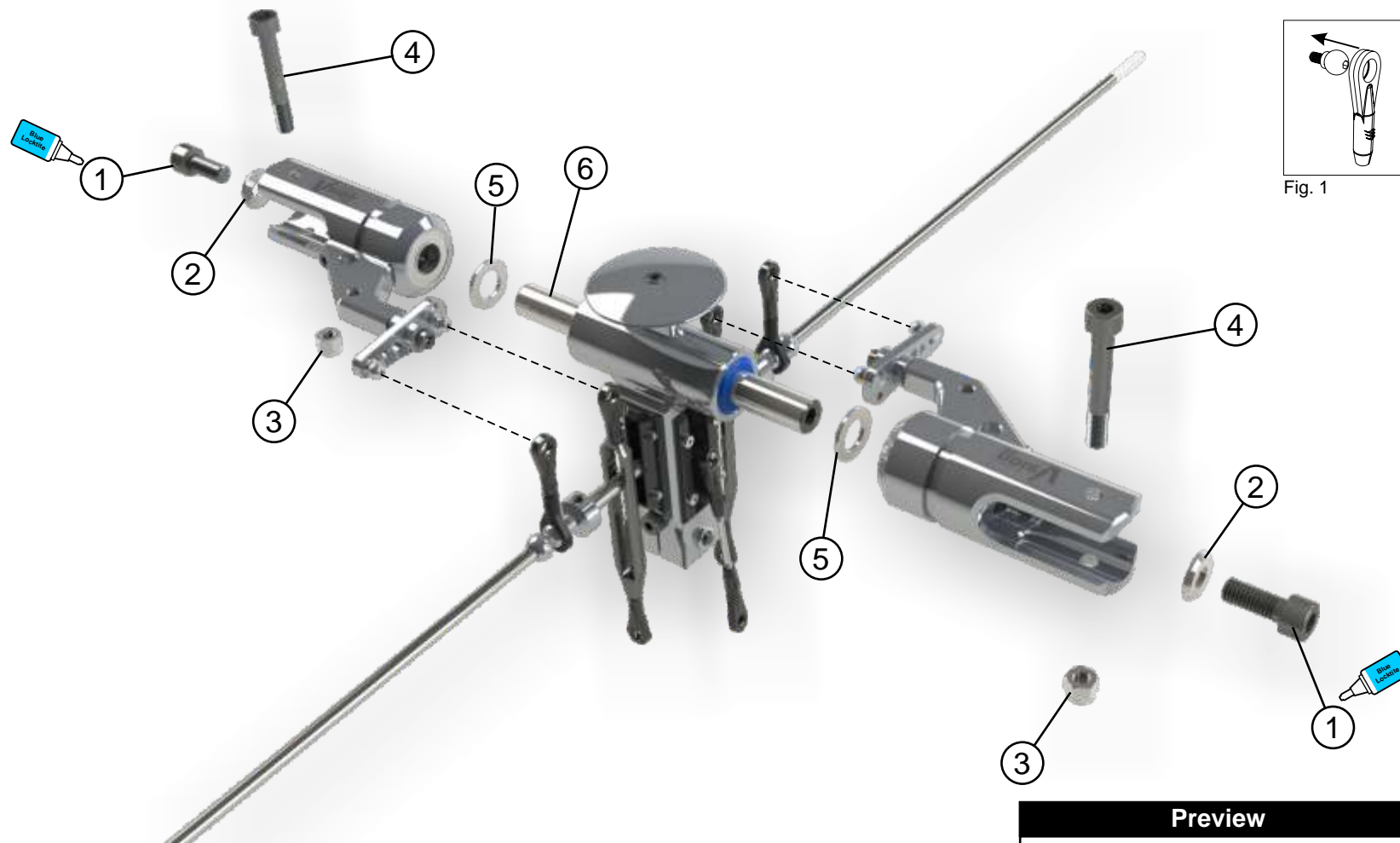
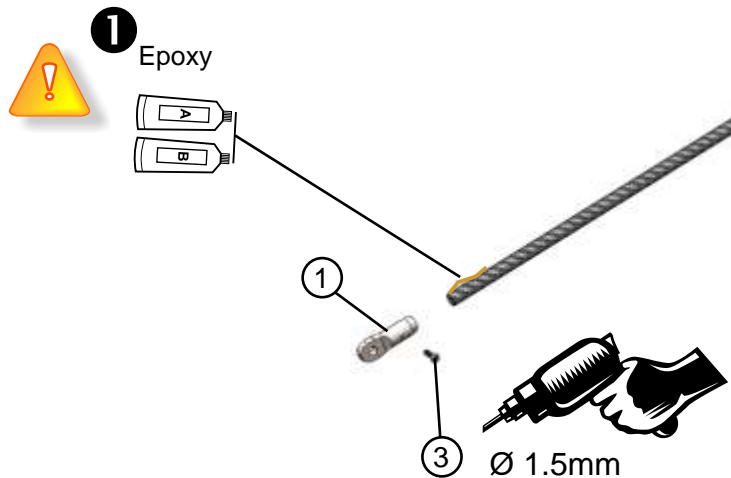
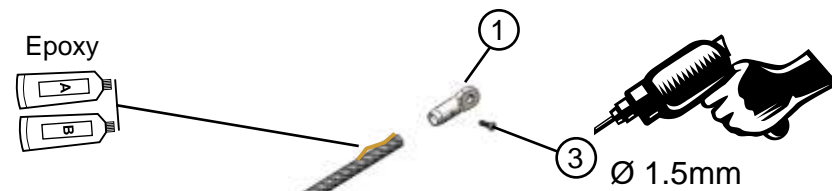


Fig. 1

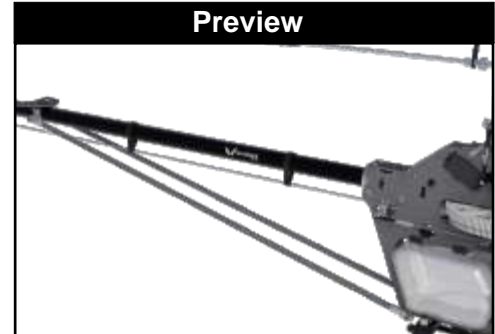


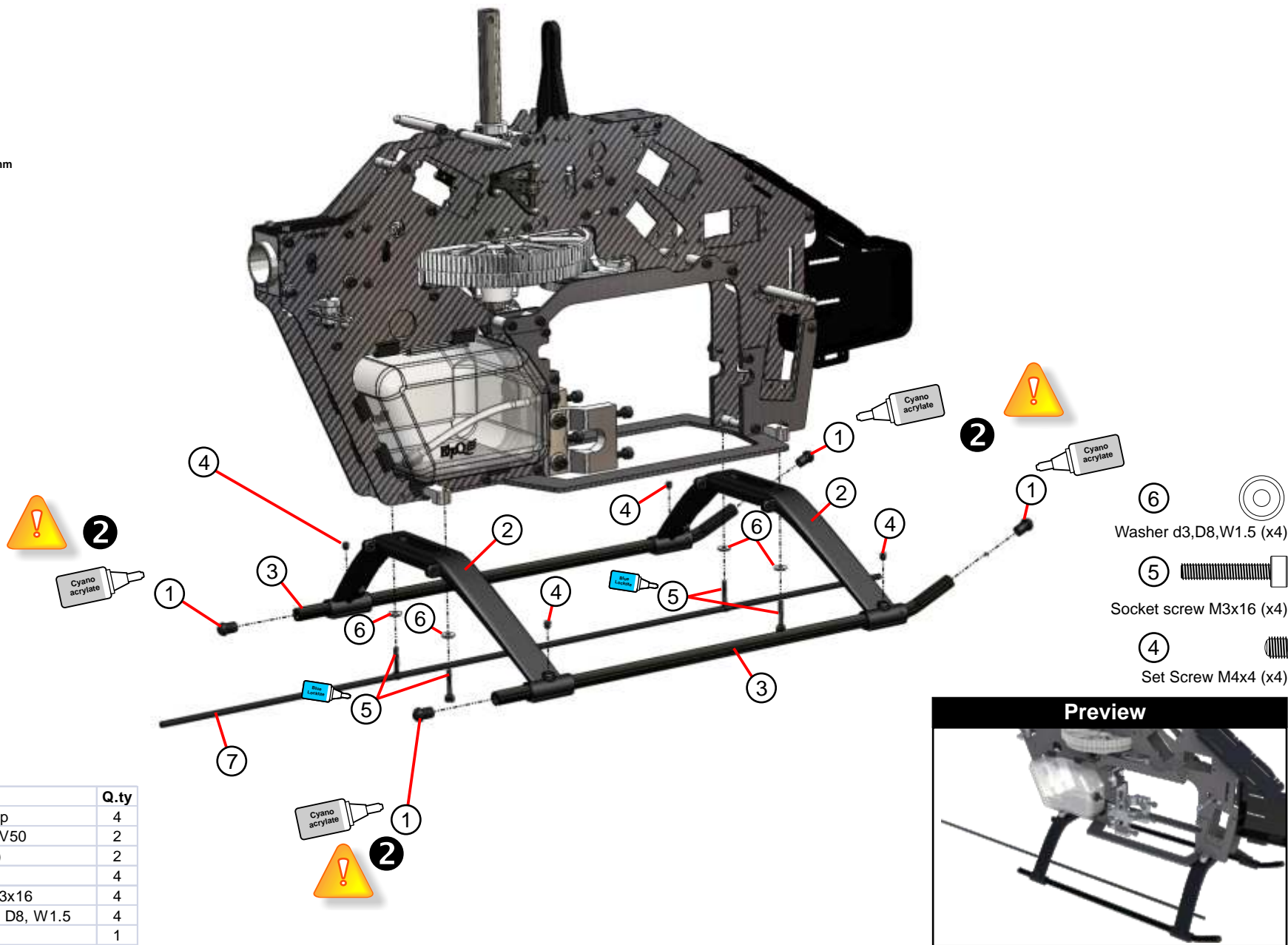
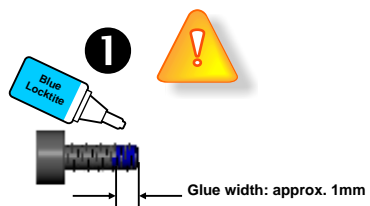


③  Selftapping screw 2x8 (x4)

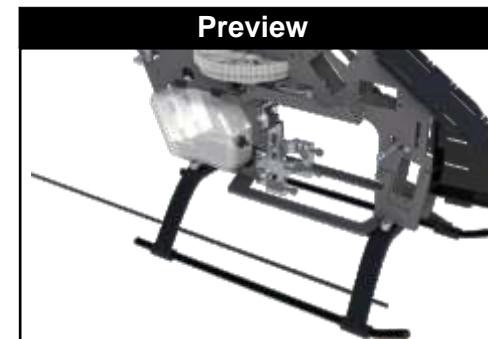


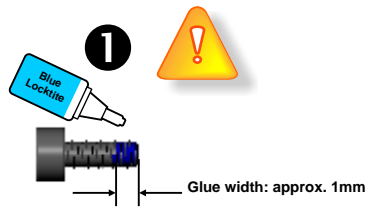
| Item | Code | Description | Q.ty |
|------|----------|------------------------------------|------|
| 1 | 8104303A | Metal Tail Support Rod End (V90c) | 4 |
| 2 | 8002503A | C.F. Tail Support Rod d4, D6, W600 | 2 |
| 3 | 8202500A | Self tapping screw 2x8 | 4 |



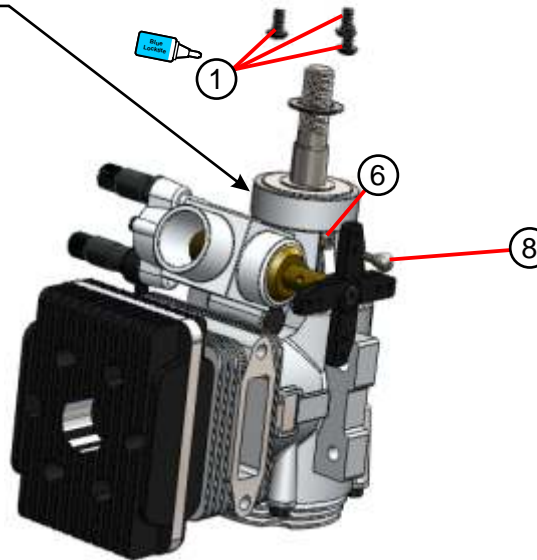
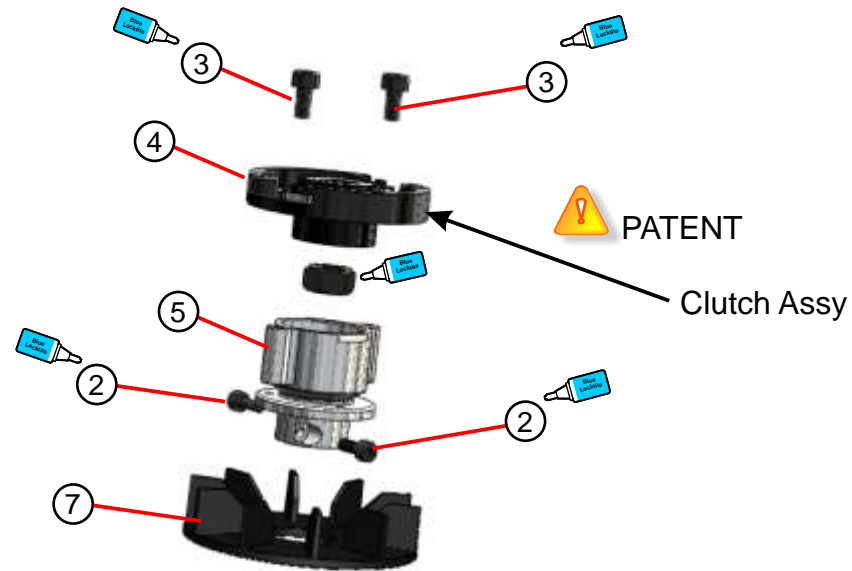


| Item | Code | Description | Q.ty |
|------|----------|--------------------------|------|
| 1 | 8003500A | Skid pipe end cap | 4 |
| 2 | 8007800A | Skid Brace 3D - V50 | 2 |
| 3 | 8101703A | Skid Pipe (V90c) | 2 |
| 4 | 8204600A | Set screw M4x4 | 4 |
| 5 | 8203800A | Socket Screw M3x16 | 4 |
| 6 | 8201200A | Flat Washer d3, D8, W1.5 | 4 |
| 7 | 8006200A | Antenna Tube | 1 |





Engine not included



- ⑥ Nut M2 (x1)
- ③ Socket Screw M4x8 (x2)
- ② Socket screw M3x8 (x12)
- ① Socket button head screw M3x6 (x3)



| Item | Code | Description | Q.ty |
|------|----------|-------------------------------|------|
| 1 | 8202400A | Socket button head screw M3x6 | 3 |
| 2 | 8201800A | Socket Screw M3 x 8 | 2 |
| 3 | 8202300A | Socket screw M4x8 | 2 |
| 4 | 8402500A | Clutch V2 Assy (V90c) | 1 |
| 5 | 8102503A | Fan HUB (V90c) | 1 |
| 6 | 8203000A | Hexagon Nut M2 | 1 |
| 7 | 8010000A | Fan V50c | 1 |
| 8 | 8104400A | Ball Type E M2x4 - 2.75mm | 1 |



8106803A Governor Sensor Mount (V90c)

8202500A Self Tapping screw 2x8



OPTIONAL



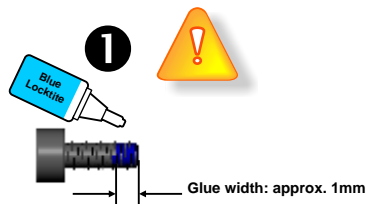
EQ90079 Governor Sensor Mount Set



Preview



| Item | Code | Description | Q.ty |
|------|----------|-------------------------|------|
| 1 | 8100803A | 26mm Hex Mount | 2 |
| 2 | 8000003A | Engine Fan Conveyor (R) | 1 |
| 3 | 8000103A | Engine Fan Conveyor (L) | 1 |



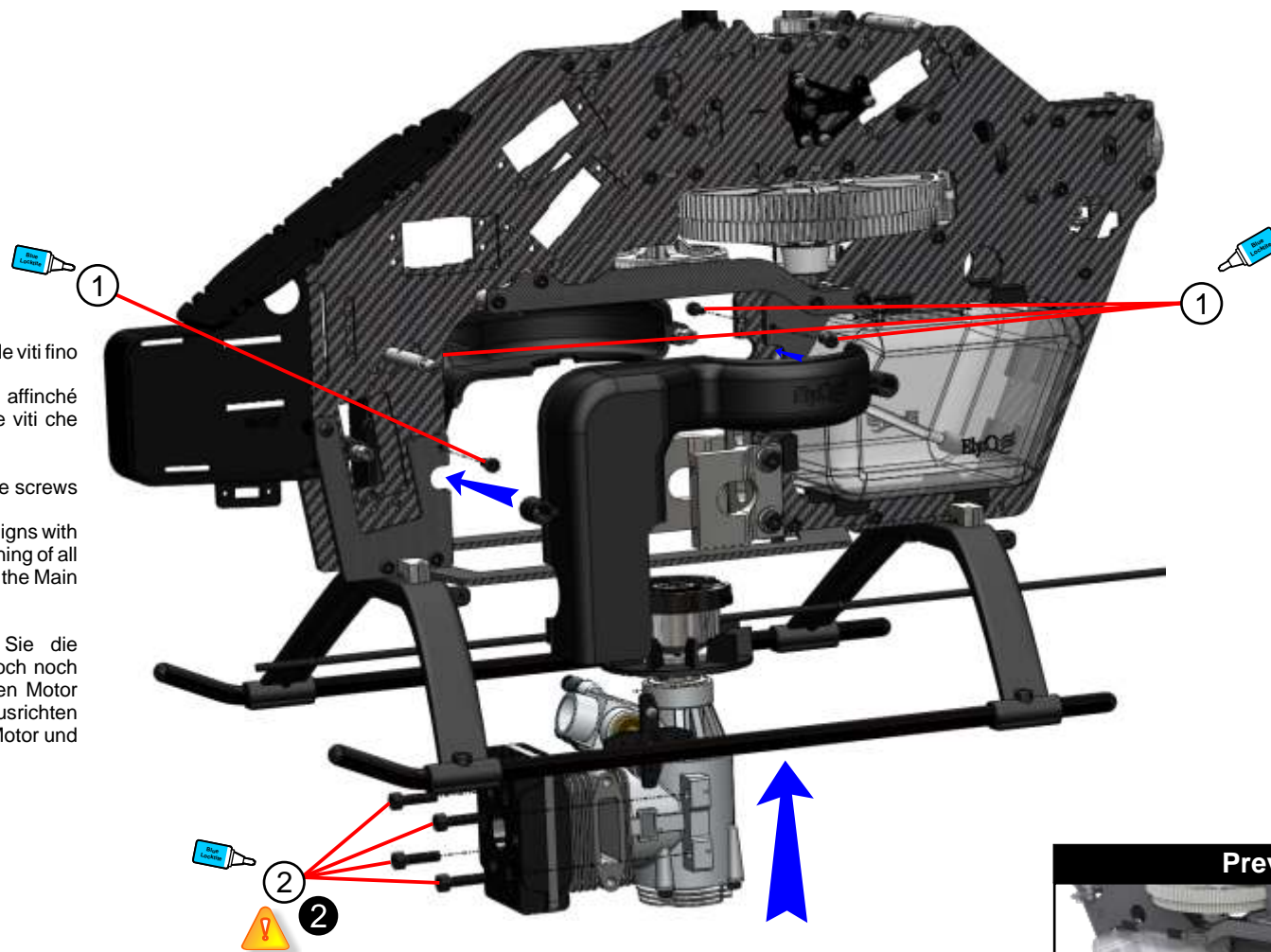
2 Procedura di allineamento del motore: Avvitare le viti fino alla battuta.
Far girare brevemente il motore con l'avviatore affinché questo si allinei; ora serrare completamente tutte le viti che fissano il motore e il castello motore al Main Frame.

Procedure for the alignment of the engine: tighten the screws until the stop.
Make the engine briefly run with the starter so that it aligns with the structure; now you can proceed with the full tightening of all the screws which fasten the engine and its support to the Main Frame.

Vorgang zum Ausrichten des Motors: Ziehen Sie die Schrauben leicht an, bis diese bündig anliegen jedoch noch nicht fest sind. Drehen Sie nun mit dem Starter den Motor einige Sekunden, so dass er sich selbst im Chassis ausrichten kann. Jetzt können Sie die Schrauben, welche den Motor und den Motorträger halten, festziehen.



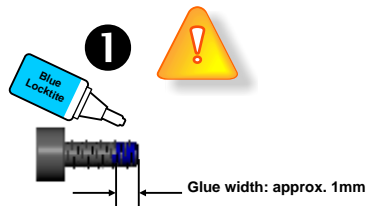
| Item | Code | Description | Q.ty |
|------|----------|------------------------------|------|
| 1 | 8201800A | Socket Screw M3 x 8 --- 8S | 4 |
| 2 | 8206200A | Socket Screw M4 x 16 --- 16N | 4 |



2 Socket screw M4x16 (x4)

1 Socket Screw M4x8 (x4)





A Assicurarsi che vi sia, dove necessario, sufficiente locktite e che il serraggio delle viti sia effettuato in maniera appropriata.

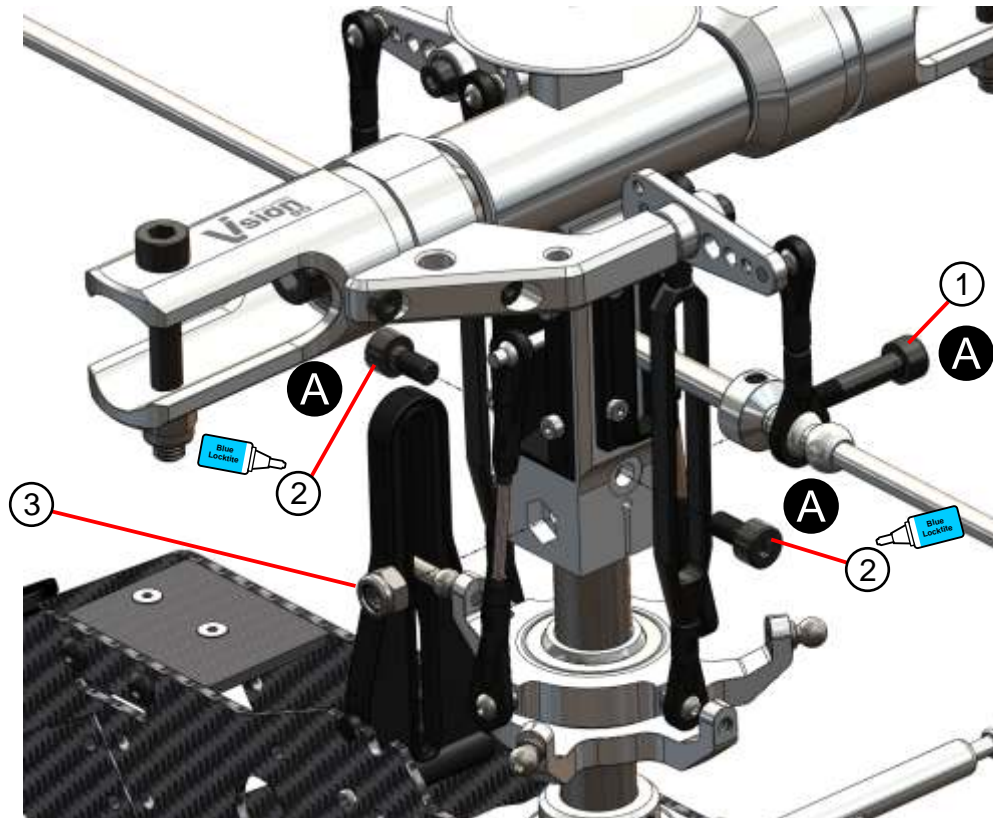
Durante i primi voli effettuare un controllo del serraggio. Se si dovesse volare senza che le viti del center hub abbiano il giusto serraggio si potrebbe alterare la sede interna dove si inserisce il main shaft e questo potrebbe innescare dannose vibrazioni.


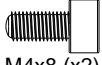
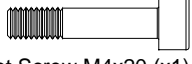
Make sure that there is, where necessary, sufficient Locktite and that the tightening of the screws has been done properly. During the first flights, please check the tightening. If you fly with the center hub screws uncorrectly tightened, the internal seat, where the main shaft is inserted, could be altered and lead to harmful vibrations.

Stellen Sie sicher, dass dort, wo es nötig ist, ausreichend Schraubensicherung verwendet wurde und das die Schrauben korrekt festgeschraubt sind. Kontrollieren Sie den festen Sitz der Schrauben während der ersten Flüge. Wenn Sie mit nicht korrekt festgeschraubten Zentralstück-Schrauben fliegen, kann sich der innere Sitz, wo die Hauptrotorwelle eingeführt wird, ändern und zu schädlichen Vibrationen führen.

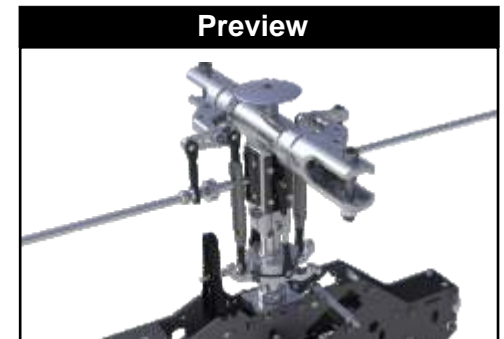


| Item | Code | Description | Q.ty |
|------|----------|-----------------------------|------|
| 1 | 8206500A | Socket Screw M4 x 20 --- 7N | 1 |
| 2 | 8202300A | Socket Screw M4 x 8 --- 8S | 2 |
| 3 | 8203100A | Lock Nut M4 - S | 1 |



- ③  Lock Nut M4 (x1)
- ②  Socket Screw M4x8 (x2)
- ①  Socket Screw M4x20 (x1)

Preview



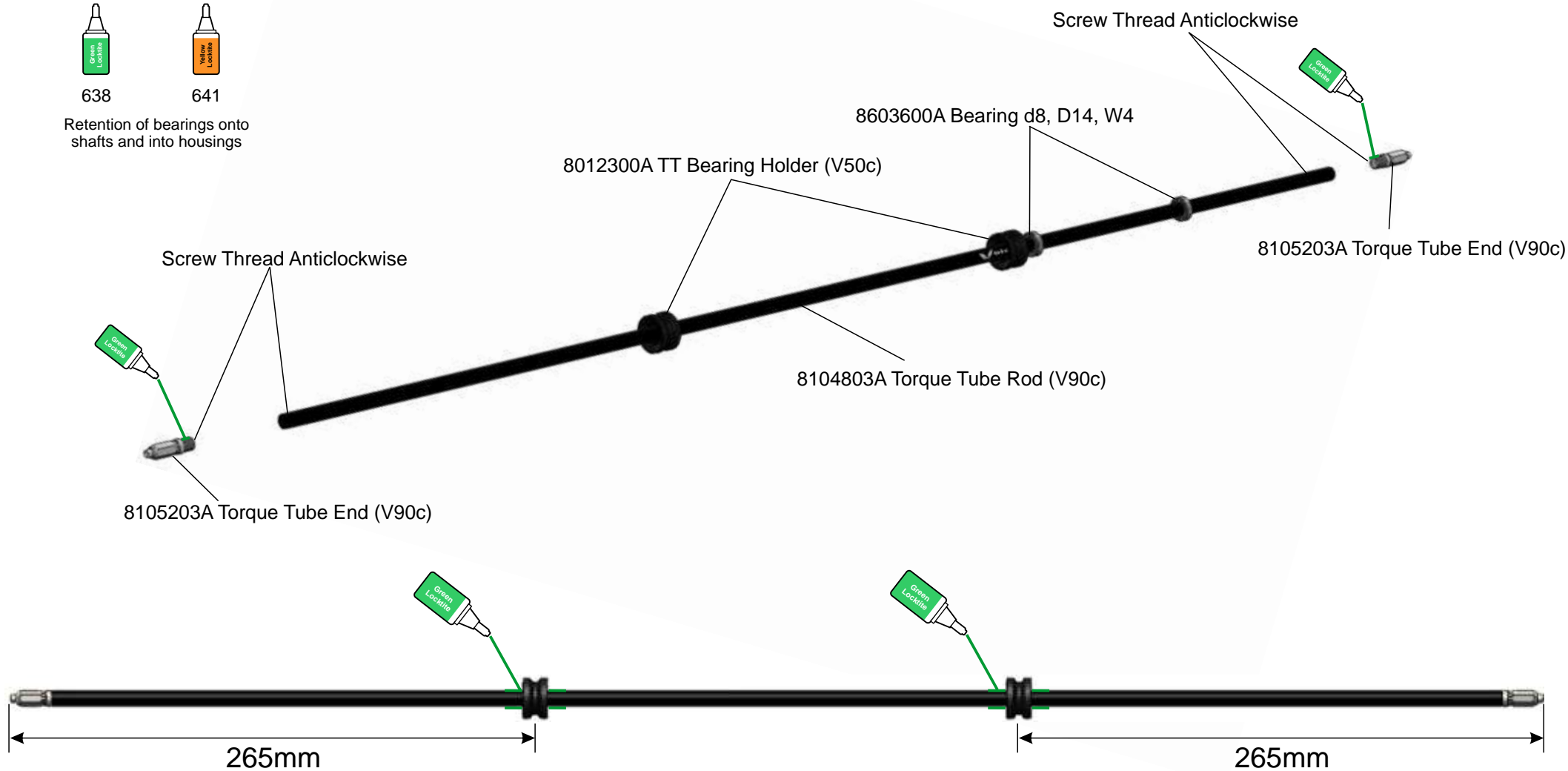


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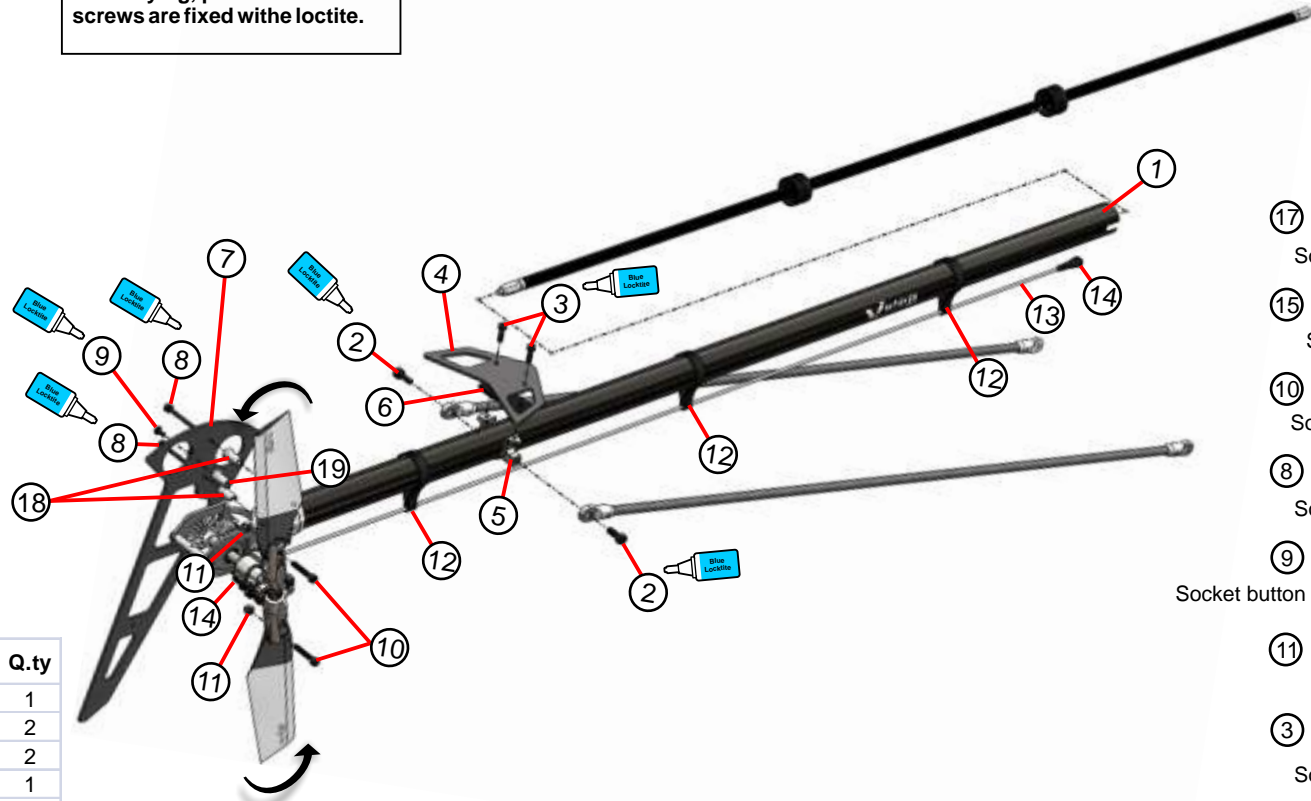
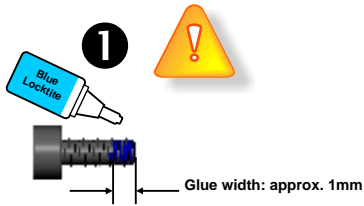


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Retention of bearings onto shafts and into housings



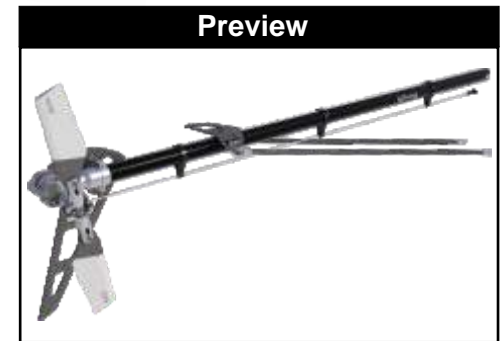
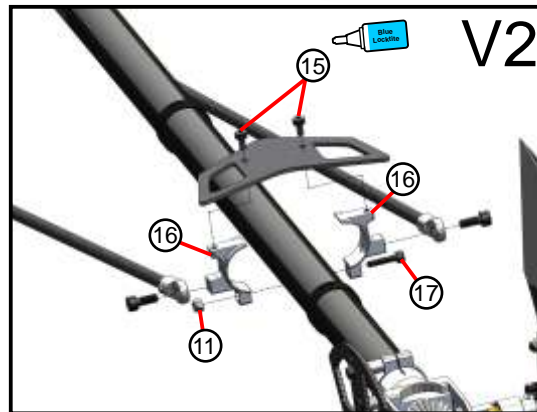
Already assembled by ElyQ.
Before flying, please check if the
screws are fixed with loctite.

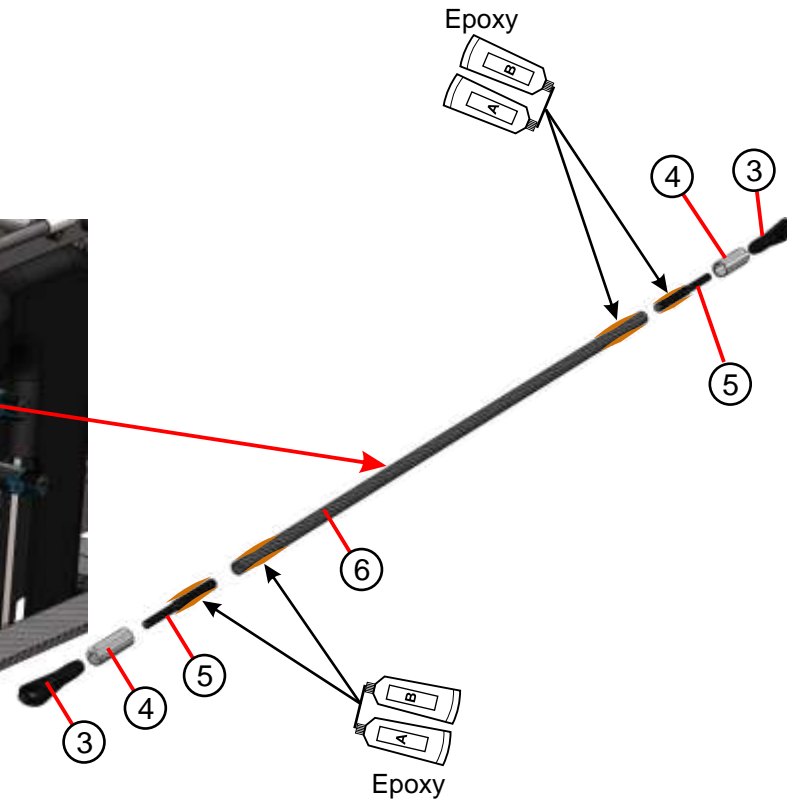
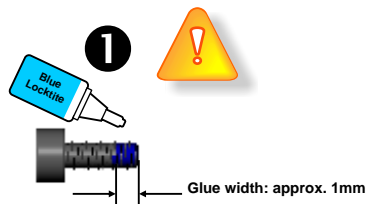


- 17 Socket screw M3x14 (x1)
- 15 Socket screw M3x6 (x2)
- 10 Socket Screw M3x18 (x2)
- 8 Socket screw M3x25 (x2)
- 9 Socket button head screw M3x6 (x12)
- 11 Lock Nut M3 (x2)
- 3 Socket screw M3x10 (x2)
- 2 Socket Screw M4x10 (x2)



| Item | Code | Description | Q.ty |
|------|----------|-------------------------------------|------|
| 1 | 8101603A | Tail Boom (V90c) | 1 |
| 2 | 8201500A | Socket Screw M4x10 | 2 |
| 3 | 8203900A | Socket Screw M3x10 | 2 |
| 4 | 8002500A | Horizontal Stabilizer (C.F.) | 1 |
| 5 | 8104203A | Metal Stabilizer Mount Lower (V90c) | 1 |
| 6 | 8002300A | Stabilizer Mount Upper | 1 |
| 7 | 8002703A | C.F. Vertical Stabilizer (V90c) | 1 |
| 8 | 8202800A | Socket Screw M3x25 | 2 |
| 9 | 8202400A | Socket Button Head Screw M3x6 | 1 |
| 10 | 8204000A | Socket Screw M3x18 | 2 |
| 11 | 8200400A | Hexagon Lock Nut M3 | 2 |
| 12 | 8000403A | Tail Control Guide (V90c) | 3 |
| 13 | 8102303A | SUS Rear Servo ROD (V90c) | 1 |
| 14 | 8002700B | Ball Link A V2 | 2 |
| 15 | 8205200A | Socket Screw M3 x 6 - 6S | 2 |
| 16 | 8107603A | Metal Stabilizer Mount V2 (V90c) | 2 |
| 17 | 8200900A | Socket Screw M3 x 14 -14S | 1 |
| 18 | 8111600A | 12mm Single Spacer (V50e) | 2 |
| 19 | 8104603A | Vertical Stabilizer Spacer (V90c) | 1 |





1 Socket Screw M4x25 (15+10) (x2)



| Item | Code | Description | Q.ty |
|------|----------|--|------|
| 1 | 8207300A | Socket Screw M4 x 25 - 10N | 2 |
| 2 | 8104403A | Tail Boom Brace Collar (V90c) | 2 |
| 3 | 8002700B | Ball Link A V2 | 2 |
| 4 | 8107700B | Coupler d4 | 2 |
| 5 | 8112700A | Link M2.3-M3 | 2 |
| 6 | 8009300A | Carbon Fiber Rear Servo Rod d3, D4, W220mm | 1 |

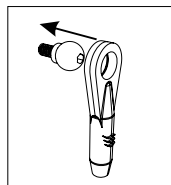
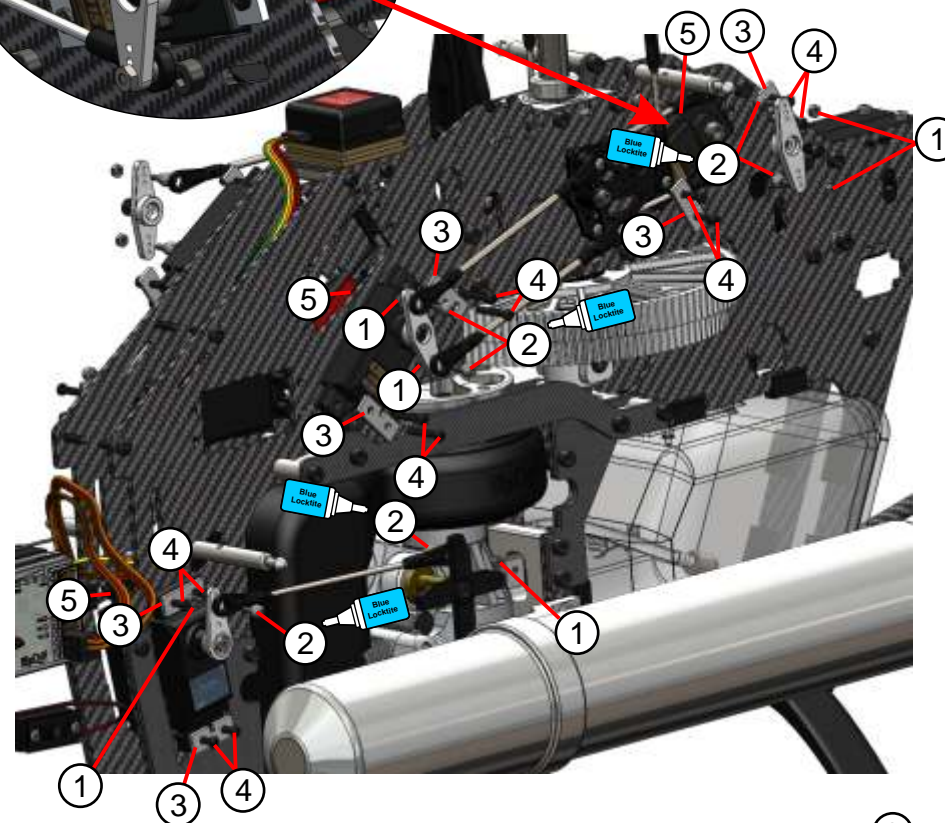
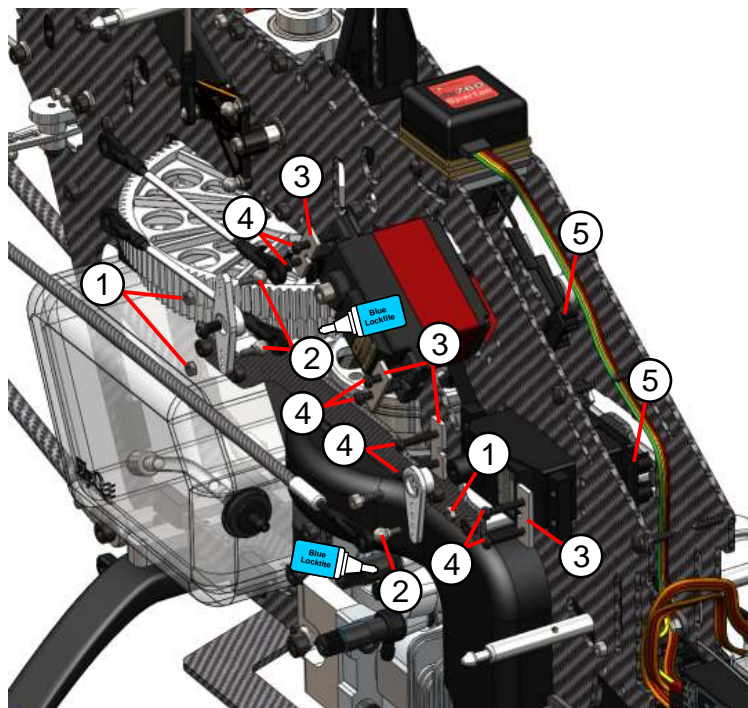
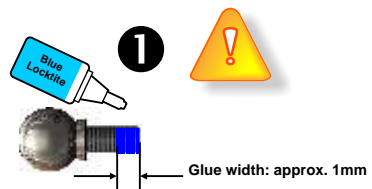


Fig. 1





| Item | Code | Description | Q.ty |
|------|----------|---------------------------|------|
| 1 | 8203000A | Hexagon Nut M2 | 9 |
| 2 | 8104400A | Ball Type E M2x4 - 2.75mm | 9 |
| 3 | 8101400A | Servo Mounting Plate | 10 |
| 4 | 8205800A | Self Tapping Screw 2.5x16 | 20 |
| 5 | 8010400A | Servo Mount (V50c) | 5 |



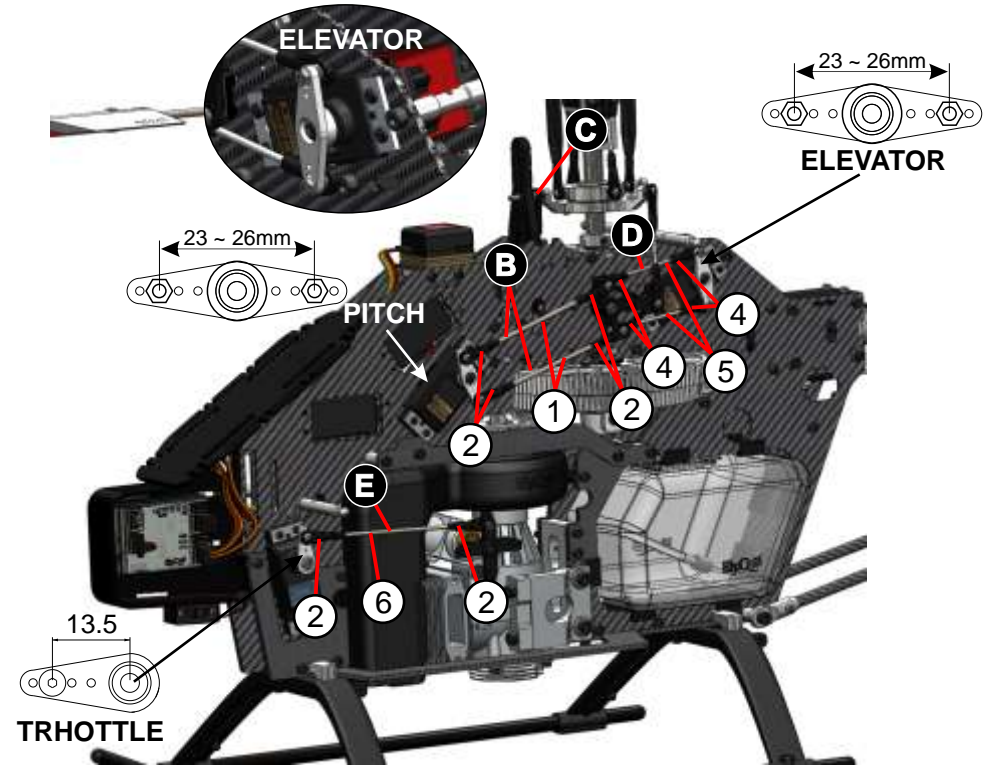
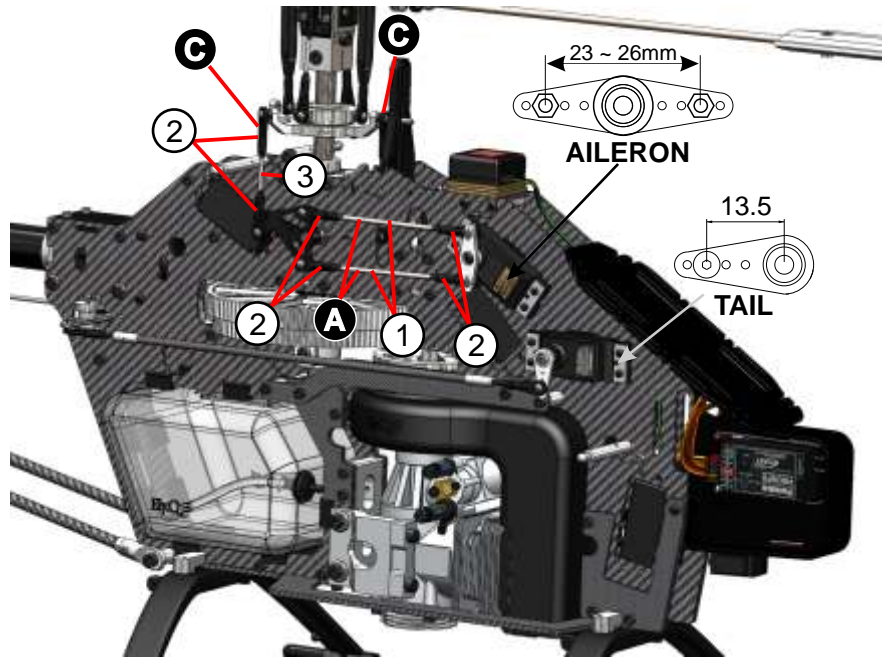
Ball Type E M2x4 - 2.75 (x9)



Nut M2 (x9)



Self Tapping Screw 2.5x16 (x20)



| Item | Code | Description | Q.ty |
|------|----------|-----------------------|------|
| 1 | 8102403A | Link M2.3x75mm (V90c) | 4 |
| 2 | 8002700B | Ball Link A V2 | 16 |
| 3 | 8103003A | Link M2.3x40mm | 3 |
| 4 | 8002800B | Ball Link B V2 | 4 |
| 5 | 8104800A | Link M2.3x46.5mm | 2 |
| 6 | 8113500A | Link M2.3x85 mm | 1 |

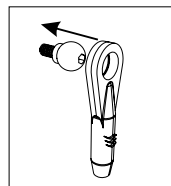
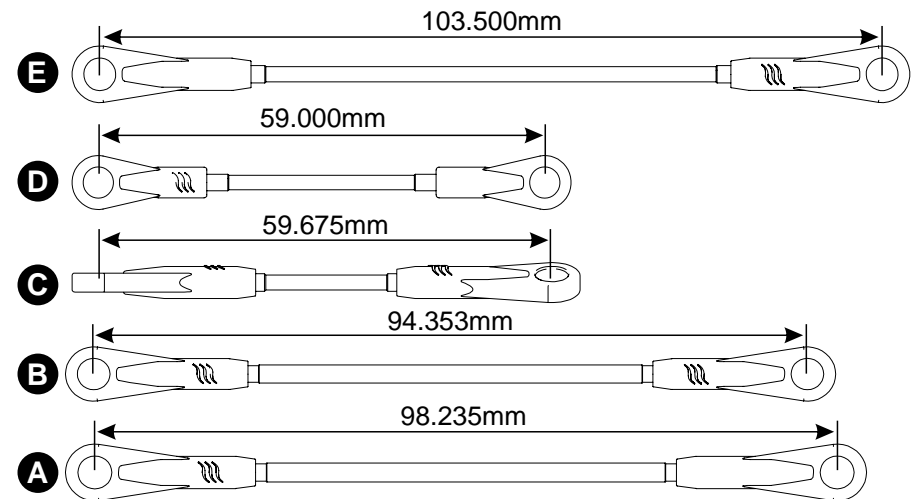
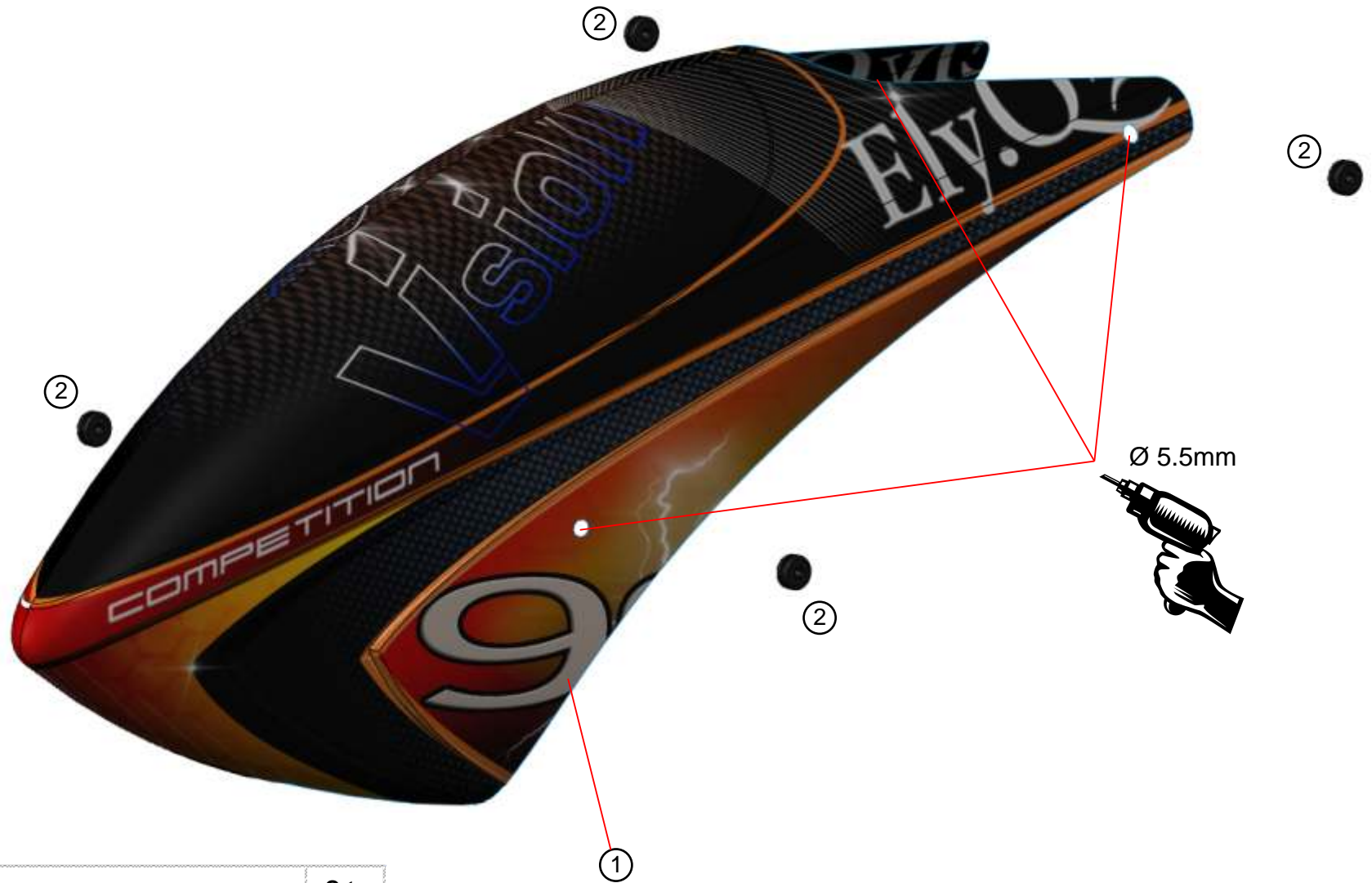
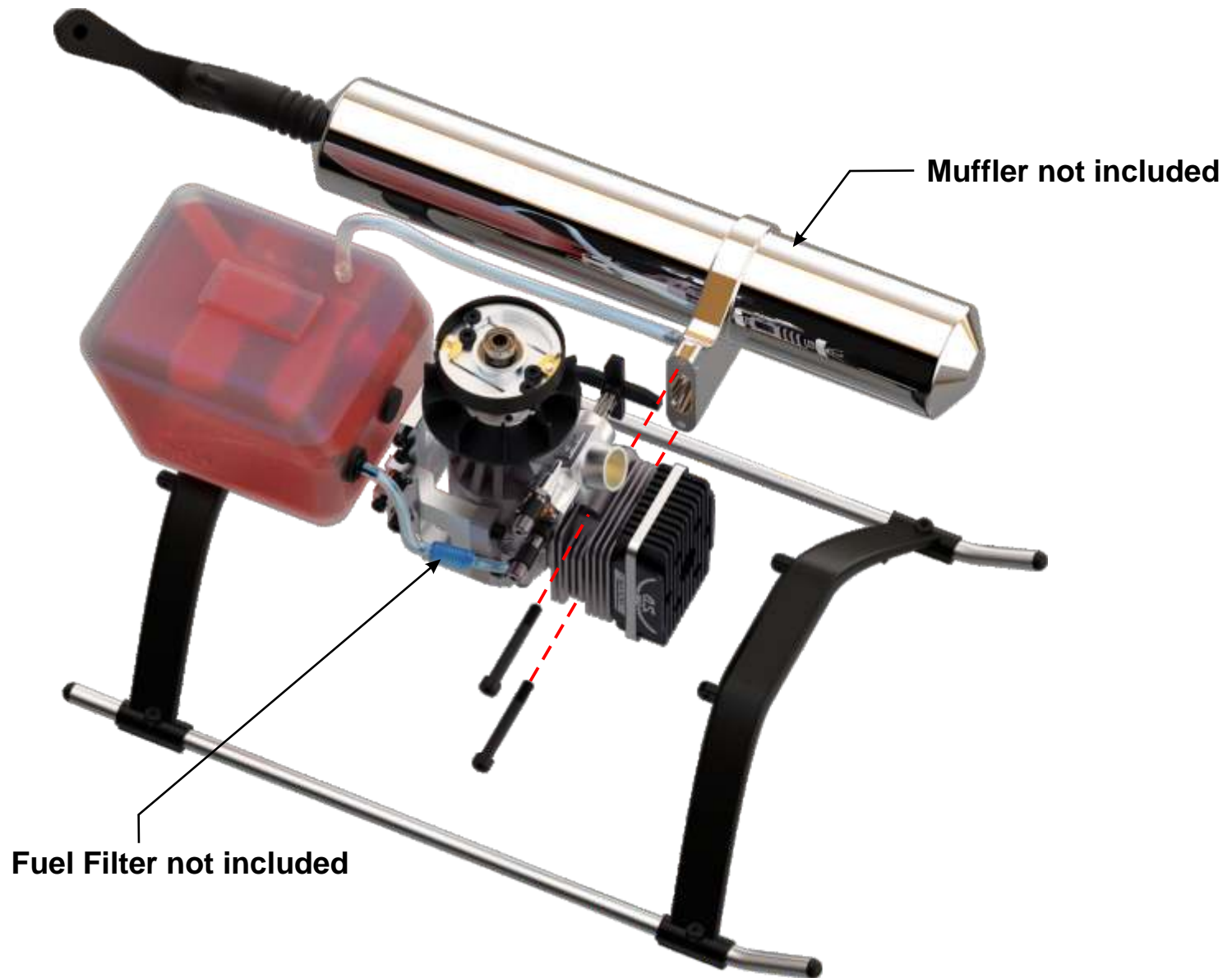


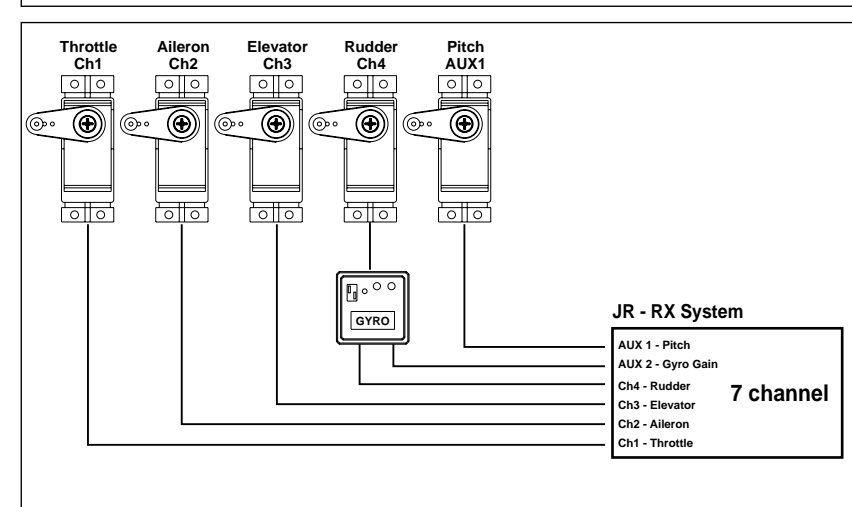
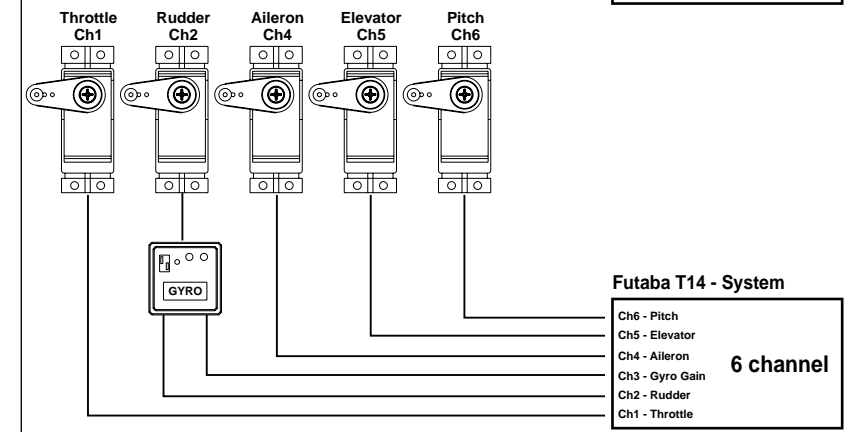
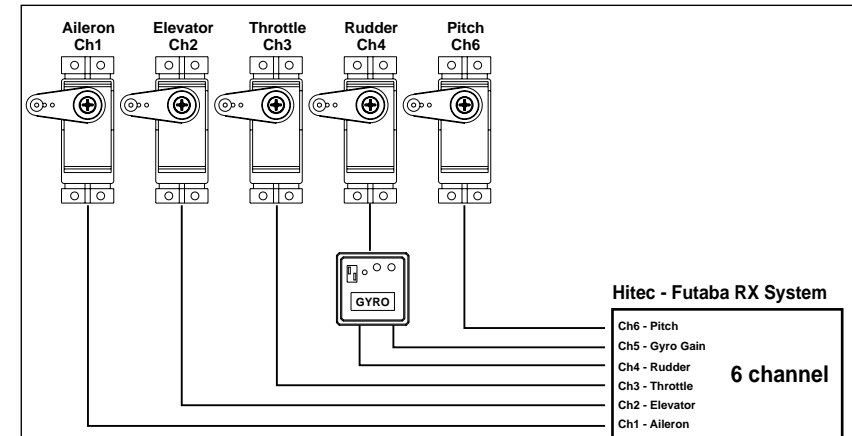
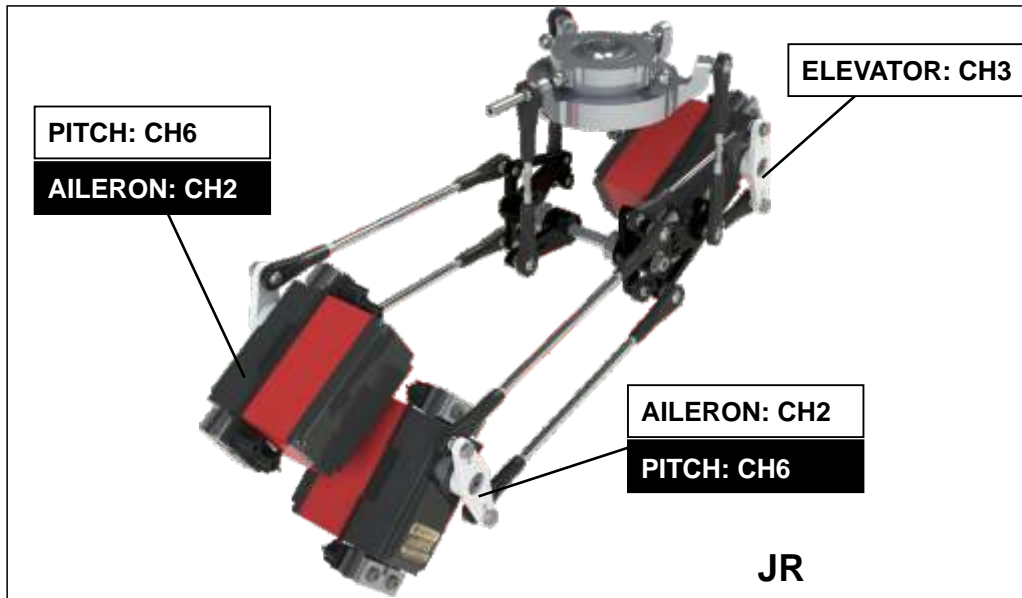
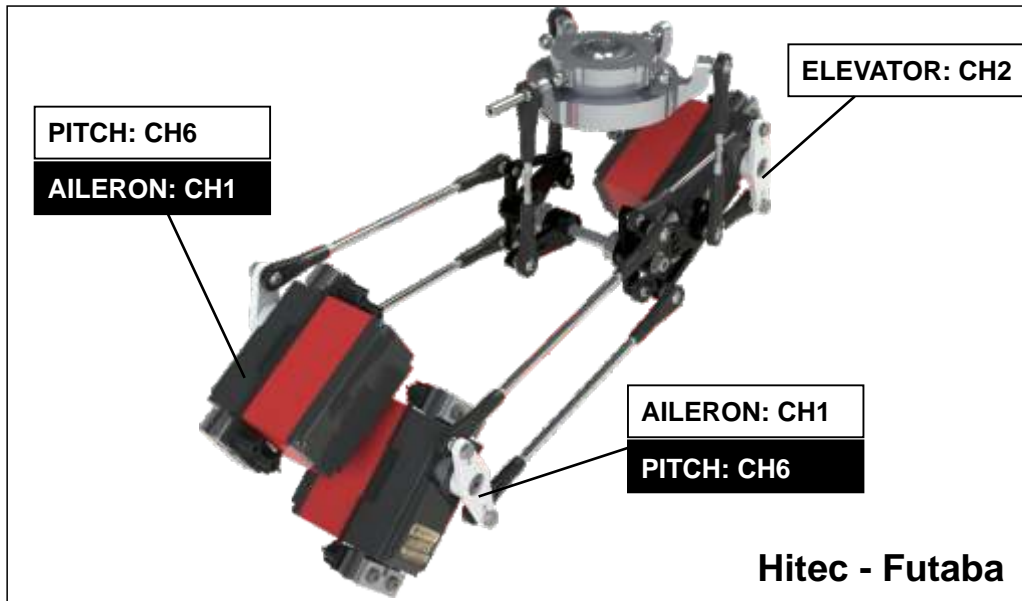
Fig. 1



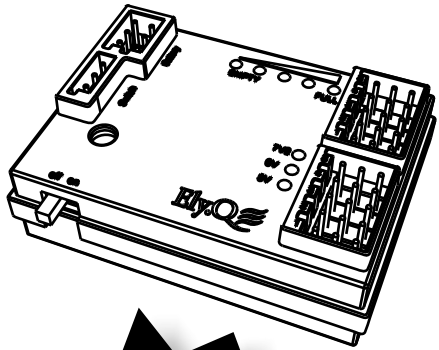


| Item | Code | Description | Q.ty |
|------|----------|------------------------------------|------|
| 1 | 8003603A | Canopy FG V90c Painted RED (R1.00) | 1 |
| 2 | 8004300A | Rubber Grommets | 4 |
| | | | |
| | | | |





Ely.Q[®]



V2



OPTIONAL

ElyQ annuncia la disponibilità della versione "V2" del Voltage Regulator con la nuova funzione LVD (Low Voltage Detector).

Questa funzione permette, durante il volo, di leggere e memorizzare il valore minimo di tensione raggiunto dalla batteria.

Finito il volo è possibile, prima di spegnere l'elicottero a cui è collegato, leggere il valore minimo di tensione raggiunto durante il volo tramite il relativo led lampeggiante.

Nel qual caso si evidenzino valori minimi eccessivamente bassi (segnalati dai led arancione o rosso lampeggianti), si potrà ricondurre la segnalazione a quattro possibili cause:

- batteria scarica;
- batteria vecchia;
- batteria non dimensionata adeguatamente;
- non adeguato dimensionamento della sezione dei cavi della batteria;
- batteria connessa, erroneamente, con un solo connettore.

ElyQ is proud to announce the new version **V2** of the Voltage Regulator including the new function LVD (Low Voltage Detector).

This feature enables the pilot to read and keep in memory during the flight the minimum voltage value reached by the battery.

After the flight and before switching the connected helicopter off the minimum power value reached is readable looking at the blinking of the respective led.

In case that minimum values are excessively low (this is outlined with the led flashing orange or red), this may depend on one of the cases listed here below::

- low battery
- old battery
- wrong battery size
- wrong settlement of the battery cables size
- battery connected, by mistake, with only one connector

HEADQUARTERS

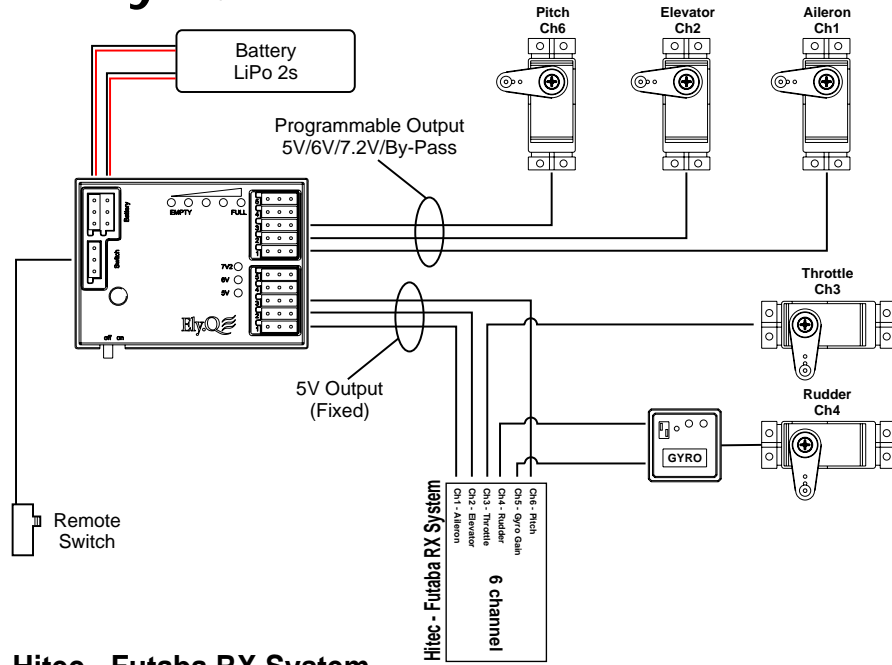
Strada di Oselin, 39
Remanzacco (UD) - ITALY
Tel. +39 (0432) 66.70.35
Fax +39 (0432) 64.93.78

[Http://www.elyq.com](http://www.elyq.com)
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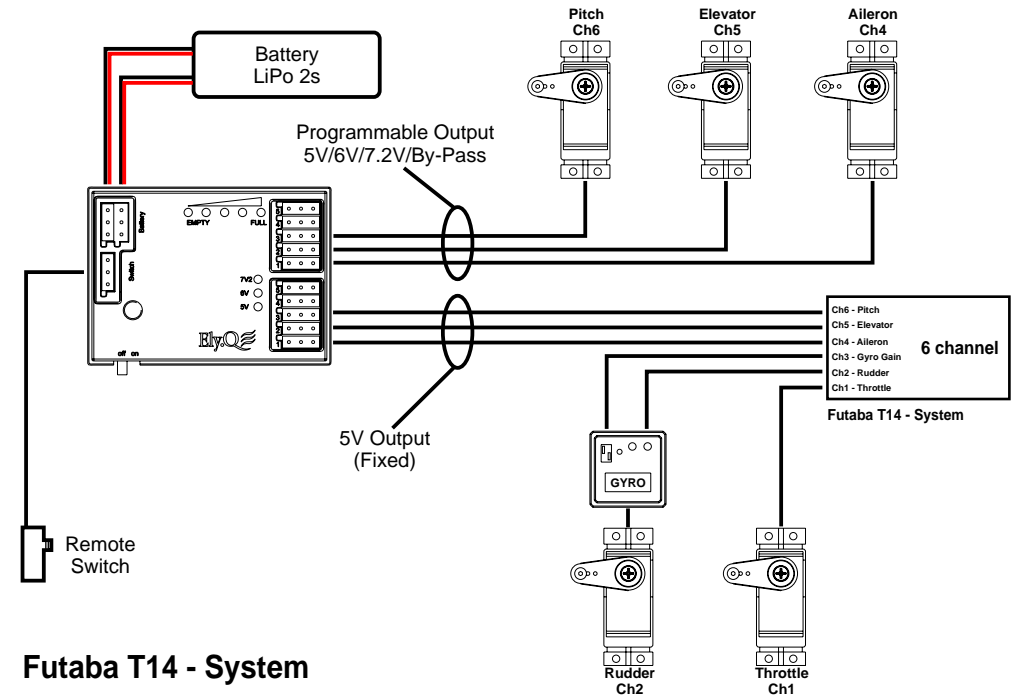
CHINA

G/F shop 1. no.30 Ha Heung Road Tok
Wawan, Kowloon
Shenzhen - China

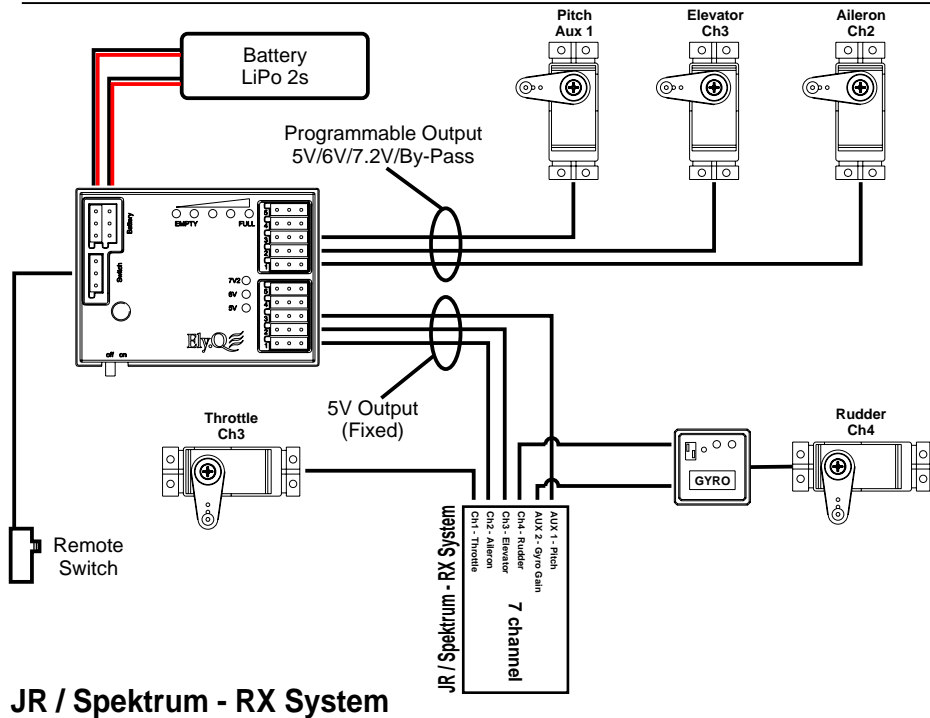
Voltage Regulator-Installation Guidelines



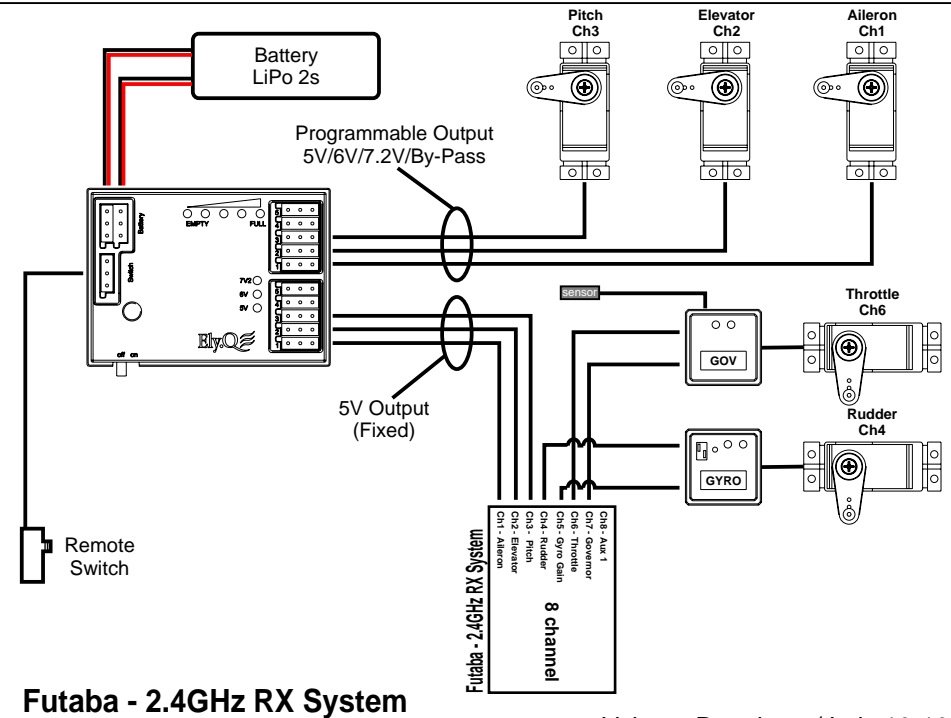
Hitec - Futaba RX System



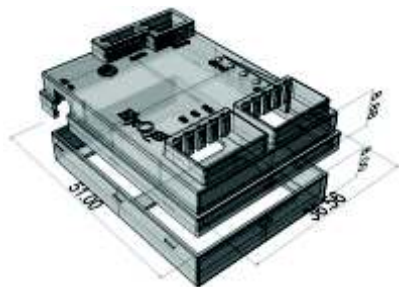
Futaba T14 - System



JR / Spektrum - RX System



Futaba - 2.4GHz RX System



Manuale Regolatore di Tensione Voltage Regulator User's Manual Spannungsregler Handbuch

Caratteristiche principali

Dimensioni ridotte: 50 x 37 x 13 mm
 Peso: 20g
 Tipi batterie supportate:
 Lipo, LiFe, Lion (due celle)
 NiCd, NiMh (da 5 a 7 celle)
 V-Meter di precisione
 Non necessari circuiti di step-down
 Tensione di uscita programmabile

Main Features

Reduced Dimensions: 50 x 37 x 13 mm
 Light weight: 20g
 Multi battery type:
 Lipo, LiFe, Lion (two cells)
 NiCd, NiMh (5 to 7 cells)
 Precision V-Meter
 Local and remote switch
 No need to use step-down circuits
 Programmable output voltage

Technische Daten

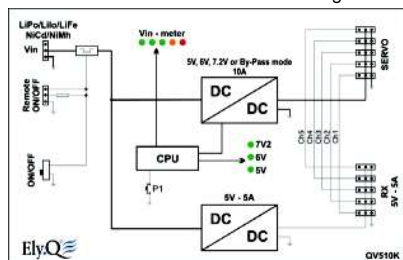
Größe: 50 x 37 x 13 mm
 Gewicht: 20g
 Einstellbare Akkutypen:
 Lipo, LiFe, Lion (2 Zellen)
 NiCd, NiMh (von 5 bis 7 Zellen)
 Präzision Voltmeter
 Es wird kein Step-down benötigt
 Programmierbare Ausgangsspannung

Introduzione

ElyQ ha una provata esperienza nel campo della elettronica di potenza soprattutto per quanto concerne convertitori AC/DC, DC/AC e UPS (gruppi di continuità). Nel campo dei modelli RC c'è un grande interesse per tali dispositivi, e per questo motivo è stato sviluppato un **Regolatore di Tensione** professionale. Le principali caratteristiche del regolatore sono le seguenti:

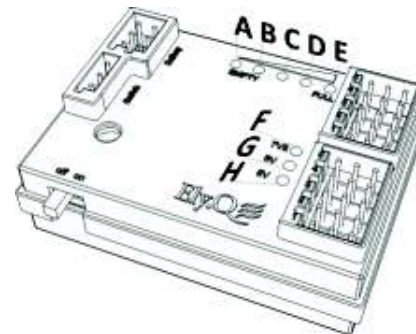
- ⌚ **Uscite separate:** una uscita a 5V (5A) dedicata espressamente alla ricevente (RX), che garantisce una corrente stabile evitando disturbi legati alla alimentazione. L'altra uscita può essere programmata in quattro modalità (5V, 6V, 7,2V e by-pass), e ha ottime caratteristiche di potenza supportando l'ultima generazione di servi (sono gestiti spunti di corrente da 10A fino a 100A).
- ⌚ **Peso ridotto:** sia il peso (20 g circa) che le dimensioni (50 x 37 x 13 mm) sono minime.
- ⌚ **Tipi batterie:** si possono usare batterie Lipo, LiFe, Lion, NiCd e NiMh. Per le Lipo, LiFe e Lion, si possono utilizzare solo 2 celle, mentre batterie del tipo NiCd possono avere da 5 a 7 celle. In questo modo si garantisce una ottima flessibilità e si aumenta la vita delle batterie.
- ⌚ **V-Meter di precisione:** in ogni istante si controlla lo stato di carica delle batterie con un V-Meter a 5 led.
- ⌚ **Consumo ridotto (modalità OFF):** spegnendo il dispositivo si reduce la scarica delle batterie (l'utente potrebbe non averle sconnesse e/o non utilizzate per lungo tempo). Il layout del circuito (congiuntamente al fatto che la ricevente è alimentata separatamente), evita l'utilizzo di ulteriori filtri nel circuito di alimentazione. Inoltre, per la configurazione avanzata, si utilizza un microprocessore.

Segue una breve descrizione funzionale del regolatore:



Configurazione regolatore

Per entrare in modalità configurazione (**Setup Mode**), il regolatore deve essere acceso tenendo premuto il tasto P1: il gruppo di cinque led del V-Meter inizierà a lampeggiare indicando il nuovo stato.



Per modificare il valore della tensione in uscita premendo brevemente il pulsante P1. Si possono scegliere 4 differenti tensioni di uscita:

- ⌚ **Mode1:** uscita 5V in continua (DC), LED H ON.
- ⌚ **Mode2:** uscita 6V in continua (DC), LED G ON.
- ⌚ **Mode3:** uscita 7.2V in continua (DC), LED F ON.
- ⌚ **Mode4 – Bypass:** la tensione di ingresso è uguale alla tensione di uscita ed il gruppo di led F,G,H LED è ON.

Una volta selezionata la tensione, è possibile selezionare il tipo di batteria (**BATTERY TYPE SETUP MODE**) premendo per almeno tre secondi il tasto P1.

Selezione tipo batteria

Scegliere il tipo di batteria premendo brevemente il tasto P1. Si possono scegliere 4 tipi di batterie:

- ⌚ **Li-Po / Li-Fe:** LED A ON
- ⌚ **Li-Ion:** LED B ON
- ⌚ **NiCd:** LED C ON
- ⌚ **NiMh:** LED D ON

Per confermare la selezione, tener premuto il tasto P1 per almeno 3 secondi. In questo modo si uscirà anche dalla modalità configurazione.

Nota: per batterie del tipo NiCd o NiMh, è necessario specificare anche il numero di celle. Scegliere tale numero premendo brevemente il tasto P1. E' possibile scegliere tra:

- ⌚ **5 celle:** LED A ON
- ⌚ **6 celle:** LED A e B ON
- ⌚ **7 celle:** LED A, B e C ON

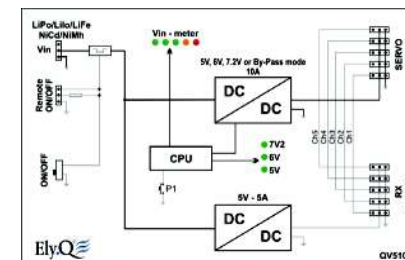
Per confermare la selezione, tener premuto il tasto P1 per almeno 3 secondi. In questo modo si uscirà anche dalla modalità configurazione.

Introduction

ElyQ has developed a wide experience in the field of converting power energy, through a specific unit that has been working for years in this area developing AC/DC, DC/DC and UPSs (also of a high power – up to 60KW). The market of RC models has revealed a big deal of interest for these devices, inducing ElyQ to realize the lightest and most reliable version of Voltage Regulator (about 20gr). The main features of the device can be summarized as follows:

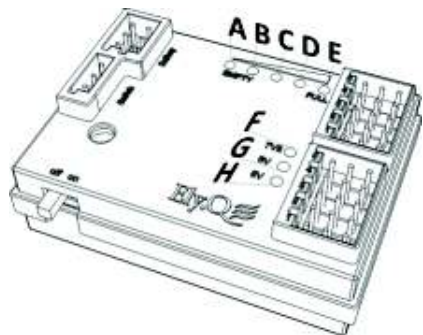
- ⌚ **Separate outputs:** first output at 5V (5A) dedicated to RX, guarantees perfect current avoiding troubles induced by power services. The other output can be programmed (5V, 6V, 7.2V or bypass mode - current reaches directly the final output) and has a formidable power capacity in order to support the last generation of high peak servos (from 10A to 100A).
- ⌚ **Light Weight:** about 20 g and reduced dimensions (50 x 37 x 13 mm).
- ⌚ **Multi battery type:** the regulator support Lipo, LiFe, Lion, NiCd and NiMh batteries. In the case of Lipo, LiFe and Lion, only 2 cells are foreseen, while NiCd batteries can have from 5 up to 7 cells. It is obvious that the possibility of programming batteries is a good enhancement for peak current and life of themselves.
- ⌚ **Precision V – Meter:** the user can check the charging of the batteries through 5 leds.
- ⌚ **Very low consumption in OFF mode:** useful to reduce the problem of discharging, either if the user forgets the battery plugged or if the limit is over due when not in use for a long time. The layout, the circuitry typology and the fact that RX is supplied separately, avoid the need of further filters on the power supply circuit. The programmability management is allowed through a microprocessor.

In the picture below, there is a short description of the regulator:



Regulator Configuration

In order to enter in the **Setup Mode**, the regulator must be switched on keeping pressed the P1 button. The upper group of 5 LEDs start blinking and the Voltage Regulator enters Setup Mode.



It is now possible to change the voltage output by pressing the P1 button shortly. There are 4 different output modes:

- ☞ **Mode1:** 5V DC output, LED H ON.
- ☞ **Mode2:** 6V DC output, LED G ON.
- ☞ **Mode3:** 7.2V DC output, LED F ON.
- ☞ **Mode4 – ByPass:** the output voltage is equal to the input voltage and the F,G,H LED Group is ON.

When the desired voltage has been selected, hold the P1 button pressed for about 3 seconds, in order to enter the **BATTERY TYPE SETUP MODE**.

Battery Type Setup Mode

Choose the type of batteries by pressing the P1 button shortly. It is possible to choose between 4 different types of batteries:

- ☞ **Li-Po / Li-Fe:** LED A ON
- ☞ **Li-Ion:** LED B ON
- ☞ **NiCd:** LED C ON
- ☞ **NiMh:** LED D ON

Once selected the battery type, hold the P1 button pressed about 3 seconds to exit the setup mode.

Warning: for NiCd or NiMh batteries, it is necessary to define the cell number. Please select the value by pressing shortly the P1 button. It is possible to choose between:

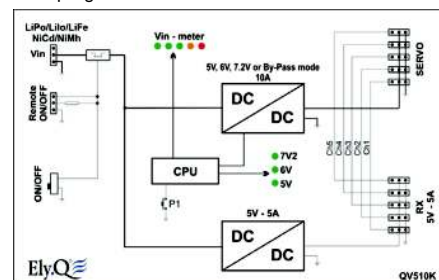
- ☞ **5 cells:** LED A ON
- ☞ **6 cells:** LED A and B ON
- ☞ **7 cells:** LED A, B and C ON

Hold the P1 button pressed for at least 3 seconds in order to confirm the selection and to exit the configuration process.

Einleitung

ElyQ hat eine lange Erfahrung im Bereich der Leistungselektronik, was AC/DC, DC/AC- Konverter und UPS (Kontinuitätsgruppen) angeht. Im RC Bereich gibt es ein großes Interesse für diese Vorrichtungen und deshalb wurde ein professioneller Spannungsregler entwickelt. Der Regulator besitzt folgende Eigenschaften:

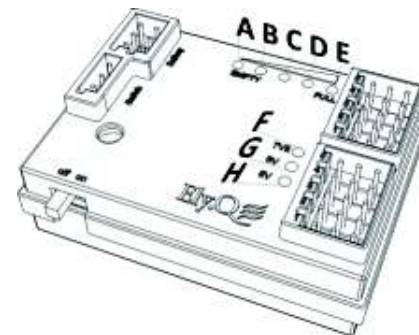
- ☺ **Getrennte Ausgänge:** Ein Ausgang mit 5V (5A), der ausdrücklich für den Empfänger (RX) gedacht ist und der eine ständige Spannung garantiert, um Spannungsprobleme zu vermeiden. Der zweite Ausgang kann programmiert werden (5V, 6V, 7,2V oder Bypass). Dieser ist für Stromspitzen von 10A bis zu 100A geeignet, womit auch die neuste Generation von Servos betrieben werden können.
- ☺ **Kompakt:** Das Gewicht (ca. 20 g) und die Dimensionen (50 x 37 x 13 mm) sind sehr kompakt. Dadurch findet der Regulator überall Platz.
- ☺ **Akkutypen:** Man kann Lipo, LiFe, Lion, NiCd und NiMh Batterien benutzen. Bei Verwendung von Lipo, LiFe und Lion kann man nur 2 Zellen benutzen, bei NiCd- und NiMH -Akkus können 5 bis 7 Zellen genutzt werden. Auf diese Weise sind hohe Flexibilität und lange Akkulaufzeiten garantiert.
- ☺ **Präzisions V-Meter:** Durch die 5-LED-Anzeige kann man einfach und schnell den Ladungszustand des Akkus prüfen.
- ☺ **Geringer Verbrauch (Mode OFF):** Im ausgeschalteten Zustand entsteht keine Entladung des Akkus (bei langer Nichtnutzung). Das Layout der Schaltung, insbesondere die Tatsache, dass die Spannungsversorgung des Empfängers separat ist, macht eine Verwendung von weiteren Filtern unnötig. Außerdem wird ein Mikroprozessor zum programmieren benutzt.



Nachfolgend das Schema des Regulators:

Einstellung der Spannung

Zum Aufruf der Programmierfunktion muss der Spannungsregler eingeschaltet und die Taste P1 gedrückt sein. Die Taste P1 gedrückt halten und den Spannungsregler einschalten. Die obere Gruppe mit den 5 LEDs blinkt und der Spannungsregler geht in den Programmiermodus über.



Durch kurzes Antippen der Taste P1 kann nun die Ausgangsspannung gewählt werden. Es stehen vier verschiedene Ausgangsspannungen zur Verfügung:

- ☞ **Modus 1:** 5V DC Ausgang, LED H leuchtet
- ☞ **Modus 2:** 6V DC Ausgang, LED G leuchtet
- ☞ **Modus 3:** 7.2V DC Ausgang, LED F leuchtet
- ☞ **Modus 4:** Bypass: Eingangsspannung= Ausgangsspannung (Vout = Vin), LEDs F,G,H leuchten

Nachdem die gewünschte Spannung gewählt wurde, die Taste P1 noch 3 Sekunden gedrückt halten, dadurch wird auf die nächste Programmierfunktion umgeschaltet: EINSTELLUNG DES AKKUTYPS.

Einstellung des Akkutyps:

Die Art des zu verwendenden Akkus durch kurzes Antippen der Taste P1 wählen.

Es stehen 4 Akkutypen zur Wahl:

- ☞ **Li-Po / Li-Fe:** LED A leuchtet
- ☞ **Li-Ion:** LED B leuchtet
- ☞ **NiCd:** LED C leuchtet
- ☞ **NiMh:** LED D leuchtet

Nachdem der gewünschte Akkutyp gewählt wurde, die Taste P1 noch 3 Sekunden gedrückt halten. Wenn der Batterietyp Li-Po/Li-Fe oder Li-Ion gewählt wurde, wird damit die Programmierfunktion verlassen.

Wenn dagegen der Batterietyp NiCd oder NiMh gewählt wurde, muss nun die Anzahl der Zellen des Batteriepakets angegeben werden.

Die Anzahl der zu verwendenden Zellen durch kurzes Antippen der Taste P1 wählen.

Es kann gewählt werden zwischen:

- ☞ **5 Zellen:** LED A leuchtet
- ☞ **6 Zellen:** LEDs A und B leuchten
- ☞ **7 Zellen:** LEDs A, B und C leuchten

Nachdem die gewünschten Anzahl von Batteriezellen gewählt wurde, die Taste P1 noch 3 Sekunden gedrückt halten, um die Programmierfunktion zu verlassen.

HEADQUARTERS

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NOTE:

Additional information on this product and answers to frequently asked question can be found at our Customer Support Website.

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NOTA:

Ulteriori informazioni su questo prodotto e risposte alle domande più comuni sono reperibili sul nostro sito Web di Assistenza tecnica.

Stampato in Italia

HINWEIS:

Zusätzliche Informationen über dieses Produkt und Antworten auf häufig gestellte Fragen finden Sie auf unserer Customer Support-Website.


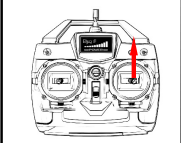
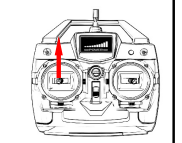
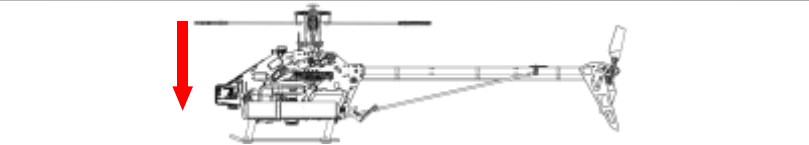
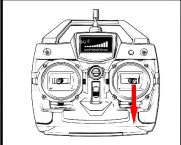
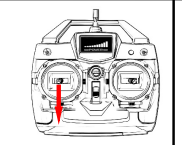
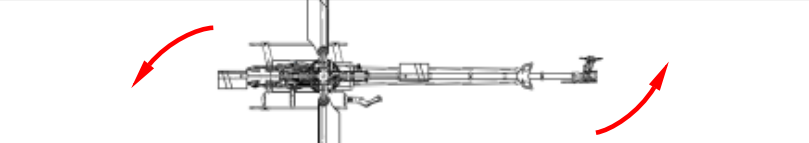
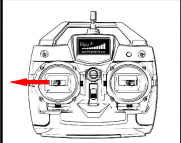
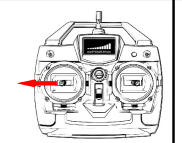
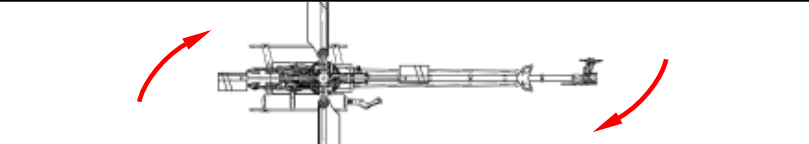
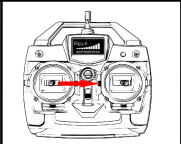
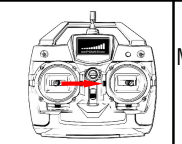
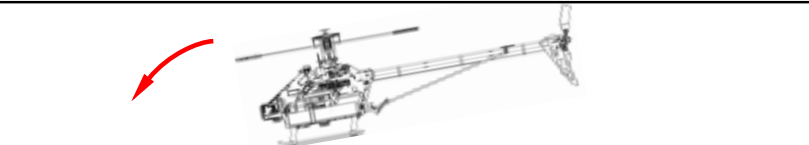
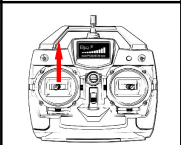
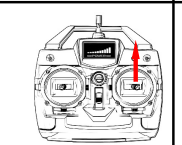

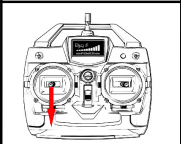
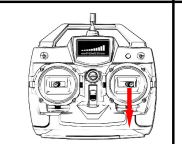

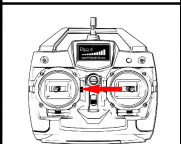
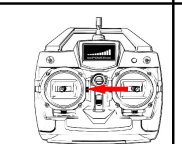

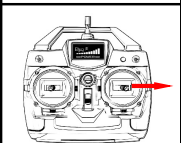
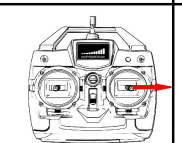
Gedruckt in Italien

NOTE:

Des informations complémentaires sur ce produit et des réponses à des questions fréquemment posées sont disponibles sur notre site Web d'assistance client.

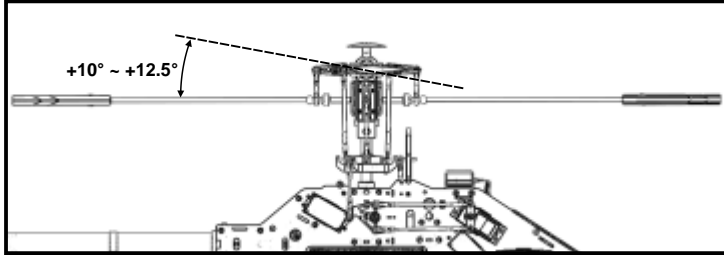
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Tutti i comandi fanno riferimento al modello visto da dietro.
All inputs refer to the model seen from the rear side.

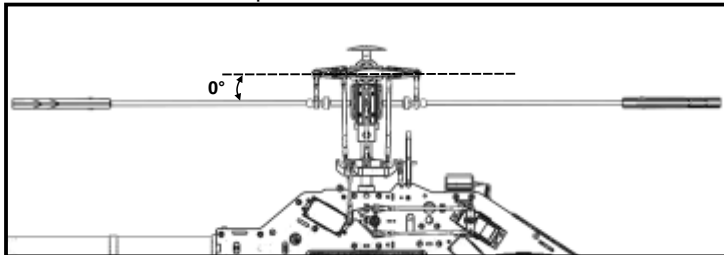
| | | Mode 1 | | Mode 2 | | |
|----------------------|------------------------|--|---|---|---|--|
| Salita | Ascent |  |  | Spingere in avanti lo stick dell'Acceleratore |  | Push up the throttle stick |
| Discesa | Descent |  |  | Spingere indietro lo stick dell'Acceleratore |  | Push down the throttle stick |
| Rotazione a sinistra | Head left rotation |  |  | Spostare a sinistra lo stick del Rotore di Coda |  | Move to the left the tail Rotor stick |
| Rotazione a destra | Head right rotation |  |  | Spostare a destra lo stick del Rotore di Coda |  | Move to the right the tail Rotor stick |
| Picchia | Pitch down/nose down |  |  | Spingere in avanti lo stick dell'Elevatore |  | Push up the Elevator stick |
| Cabra | Pitch up/nose up |  |  | Spingere indietro lo stick dell'Elevatore |  | Push down the Elevator stick |
| Trasla a sinistra | Translate to the left |  |  | Spostare a sinistra lo stick degli Alettoni |  | Move to the left the Ailerons stick |
| Trasla a destra | Translate to the right |  |  | Spostare a destra lo stick degli Alettoni |  | Move to the right the Ailerons stick |

SETUP FOR NORMAL FLIGHT

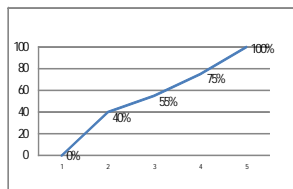
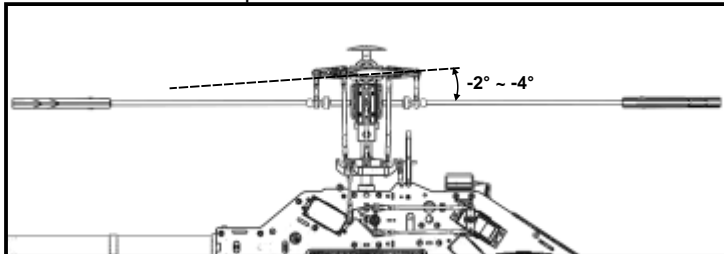
Set the stick to max position - Posizione dello stick al massimo



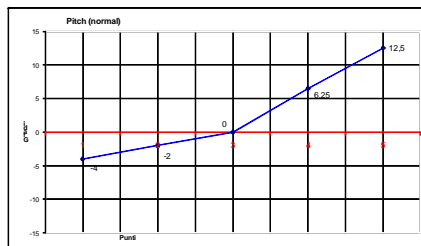
Set the stick to middle position - Posizione dello stick al centro



Set the stick to lower position - Posizione dello stick al minimo



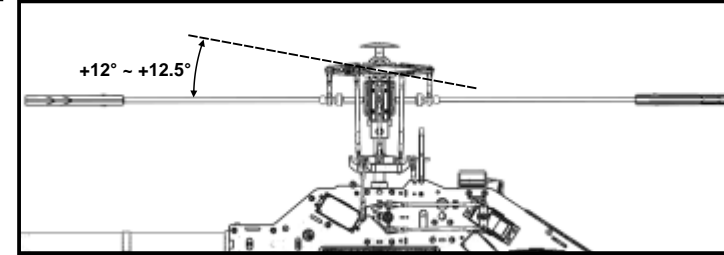
Throttle - NORMAL



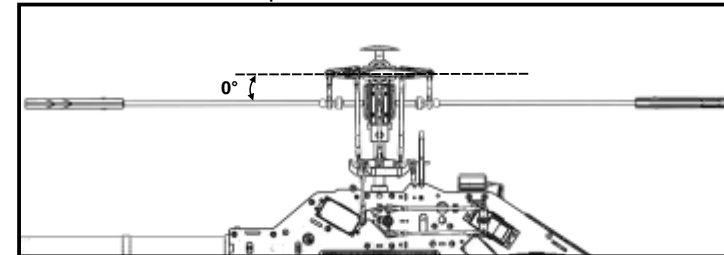
Pitch - NORMAL

SETUP FOR 3D FLIGHT - HOLD

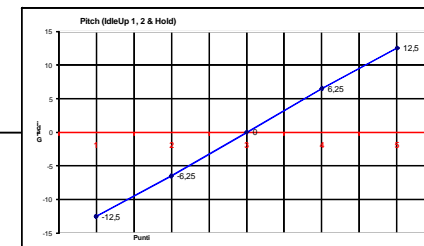
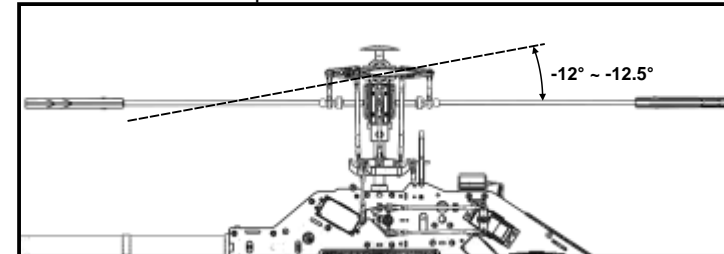
Set the stick to max position - Posizione dello stick al massimo



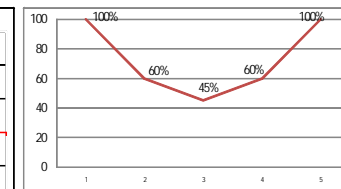
Set the stick to middle position - Posizione dello stick al centro



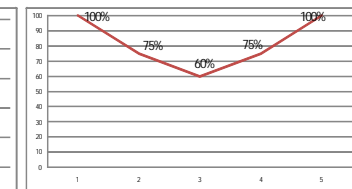
Set the stick to lower position - Posizione dello stick al minimo



Pitch - IDLE 1, IDLE 2, HOLD



Throttle - IDLE 1, HOLD



Throttle - IDLE 2

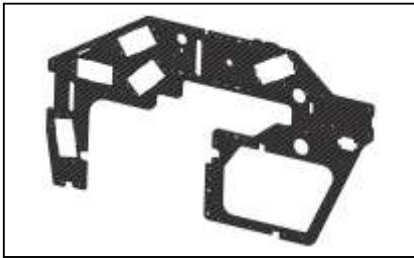


Se durante il volo il motore tende al sovraccarico, modificare e se necessario ridurre i valori del passo.

If the engine overloads, you need to reduce pitch values.

Spare Parts

Vision 90 - Competition / Italy 17-08-2010



EQ90001 Main Frame C.F. 2mm (V90c)



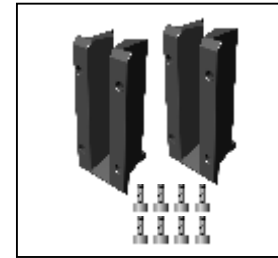
EQ90002 Side Plate Set C.F. 2mm (V90c)



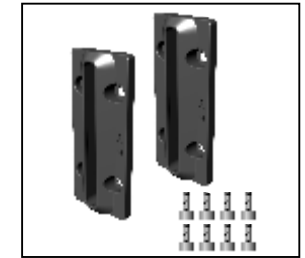
EQ90003 Engine Fan Conveyor (V90c)



EQ90004 Fuel Tank (V90c)



EQ90005 FlyBar SeeSaw Guide (V90c)



EQ90006 Flybar Guide Set (V90c)



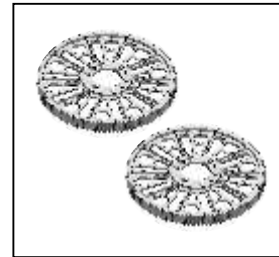
EQ90007 C.F. Bottom Plate 2mm (V90c)



EQ90008 C.F. Support Frame 2mm (V90c)



EQ90009 C.F. Frame Brace Set (V90c)



EQ90010 115T Main Spur Gear M1



EQ90011 Auto Rotation Gear M1 (V90c)



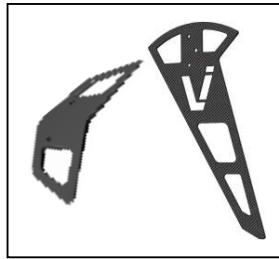
EQ90012 Tail Rod Guide (V90c)



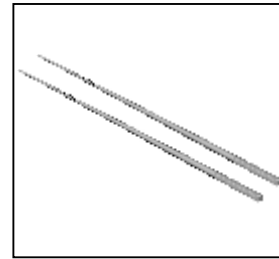
EQ90013 Flybar Plastic Ball Link



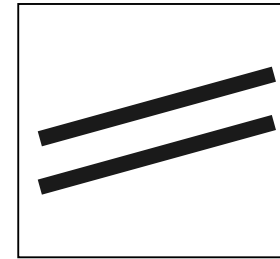
EQ90014 Control FlyBar Set (V90c)



EQ90015 Carbon Fiber Tail Fin (V90c)



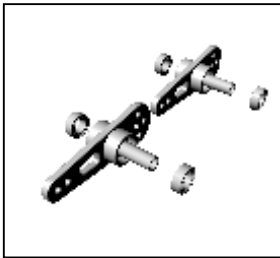
EQ90016 Flaybar Rod (V90c)



EQ90017 Clutch Liner (V90c)



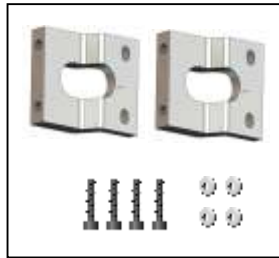
EQ90018 Main Rotor Pitch Housing (V90c)



EQ90019 Mixing Lever (V90c)



EQ90020 Motor Mount Center (V90c)



EQ90021 Motor Mount Side Set (V90c)



EQ90022 Control Flybar Rod Set (V90c)



EQ90023 Center Hub (V90c)



EQ90024 One Way Autor. Shaft (V90c)



EQ90025 Starter Shaft (V90c)



EQ90026 Spindle (V90c)



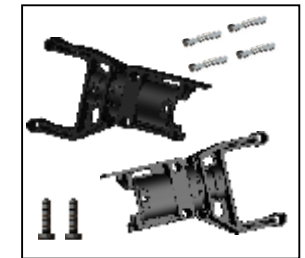
EQ90027 Main Shaft (V90c)



EQ90028 14T Drive Pinion M1



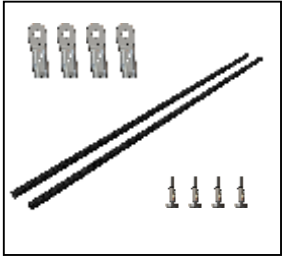
EQ90029 Clutch Bell (V90c)



EQ90030 Tail Boom Case (V90c)

Spare Parts

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EQ90031 Carbon Tail Boom Brace Set (V90c)



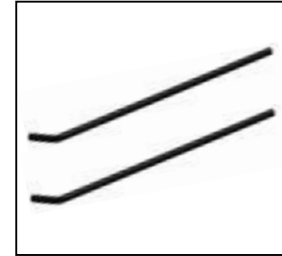
EQ90032 Main Shaft Lock Ring (V90c)



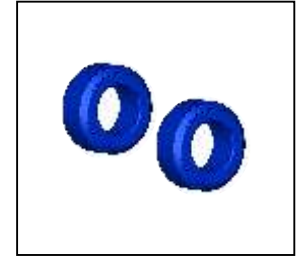
EQ90033 Flybar Seesaw Lever (V90c)



EQ90034 FAI Swash Plate Assy (V90c)



EQ90035 Skid pipe set (V90c)



EQ90036 Flap Dampers (V90c)



EQ90037 Blade Holder (V90c)



EQ90038 Stabilizer Fin bracket (V90c)



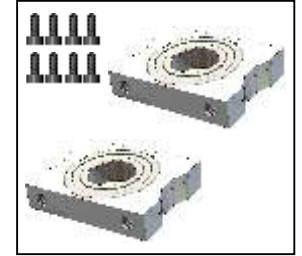
EQ90039 Fan HUB (V90c)



EQ90040 Flybar Collar Set (V90c)



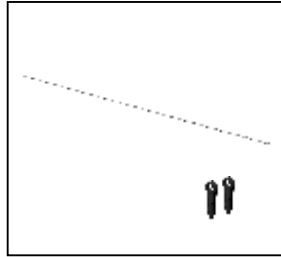
EQ90041 Oneway Autorotation Set (V90c)



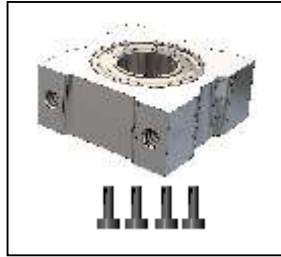
EQ90042 Main Rotor Support (V90c)



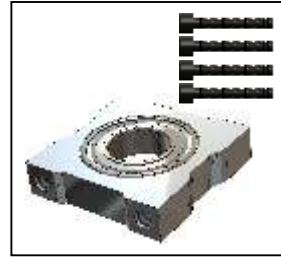
EQ90043 Tail Boom Brace End Spacer (V90c)



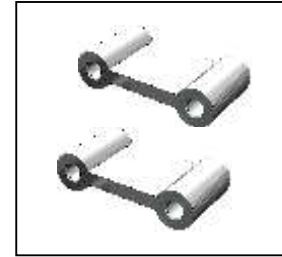
EQ90044 SUS Rear Servo Rod (V90c)



EQ90045 Pinion Drive Support (V90c)



EQ90046 Lower Third Block Set (V90c)



EQ90047 Frame Spacer Large (V90c)



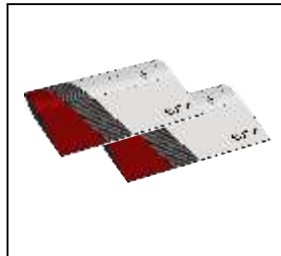
EQ90048 Tail Boom Black V90c with Logo



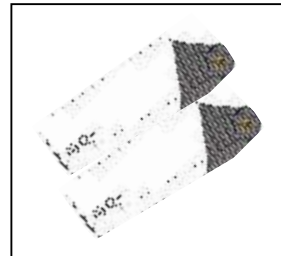
EQ90049 Flap Collar (V90c)



EQ90050 Front Gyro Mount (V90c)



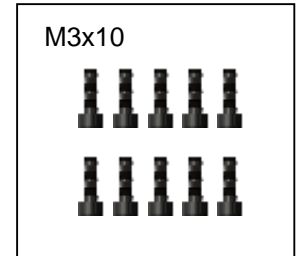
EQ90051 C.F. Flybar Paddle (V90c)



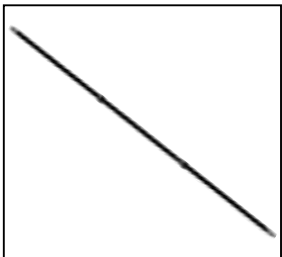
EQ90052 C.F. Tail Rotor Blade (V90c)



EQ90053 Clutch (V90c)



EQ90054 Screw Bag M3x10 (10pcs)



EQ90055 Torque Tube (V90c)



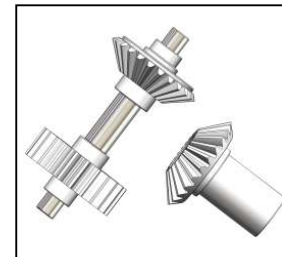
EQ90056 TT Metal Tail Case (V90c)



EQ90057 Tail Rotor Control Arm (V90c)



EQ90058 Tail Pitch set (V90c)



EQ90059 TT Front Drive Gear Set (V90c)



EQ90060 Short Body Retaining Frame (V90c)

Spare Parts

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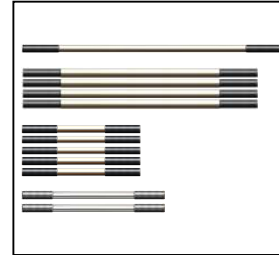
EQ90061 Elevator Arm Set (V90c)



EQ90062 Aileron/Pitch Lever Set (V90c)



EQ90063 Push Pull Shaft Set (V90c)



EQ90064 Metal Link Set (V90c)



EQ90065 Tail Rotor Shaft Set (V90c)



EQ90066 Thrust Main Rotor Grip (V90c)



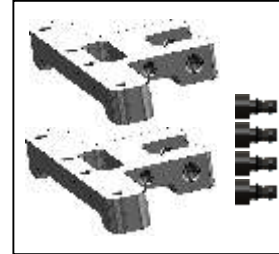
EQ90067 Brg. Main Rotor Grip (V90c)



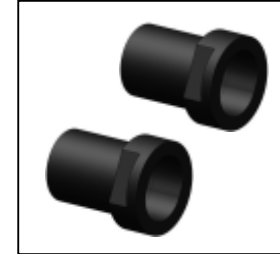
EQ90068 Main Blade Screws Set (V90c)



EQ90069 Ball Link B M3 (10pcs)



EQ90070 Rear Landing Skid Brace Mount (V90c)



EQ90071 Spindle Sleeve (V90c)



EQ90072 Hook-And-Loop Fastener



EQ90073 Canopy FG V90c White



EQ90074 Tail Rotor Grip Set (Carbon Reinforced)



EQ90075 FG Painted Canopy "The Lizard"



EQ90076 FG Painted Canopy "The Monkey"



EQ90077 FG Painted Canopy "The Parrot"



EQ90078 C.F. Rear Frame Brace (V90c)



EQ90079 Governor Sensor Mount Set



EQ90082 Clutch Spring (V90c)



EQ90083 Tail Rotor Hub (V90c)



EQ30062 TT Bearing Holder



EQ30036 Brg d6,D15,W5 Support (V50c)



EQ30022 26 mm spacer (V50c)



EQ30068 26mm Hex Metal Mount



EQ0454B Skid Pipe End Cap



EQ30010 C.F. Breakout Tab 2mm (V50c)



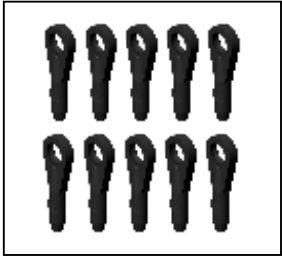
EQ30013 Anti Rotation Bracket (V50c)



EQ10369 Tail Rotor Grip Set (Metal)

Spare Parts

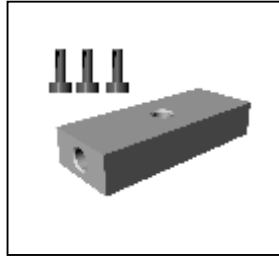
Vision 90 - Competition / Italy 17-08-2010



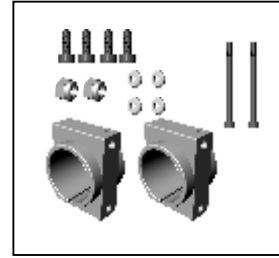
EQ0041V2 Ball Link A



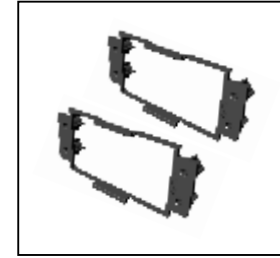
EQ0040V2 Ball Link B



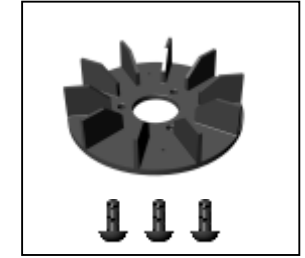
EQ30032 Bottom Reinforcement Block (V50c)



EQ30025 Tail Boom Clamp Set (V50c)



EQ30017 Servo Mount (V50c)



EQ10367 Fan V50c



EQ10370 Angular Bearing d5, D10, W4



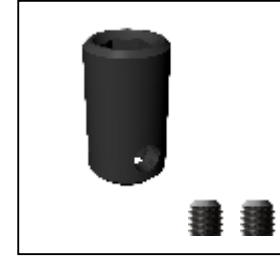
EQ2075-2 3D - Landing Skid Structure Set 2x



EQ70357 One Way Bearing Grease



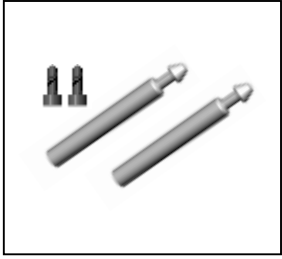
EQ30066 Bearing d12,D18,W4 / d3,D10,W4



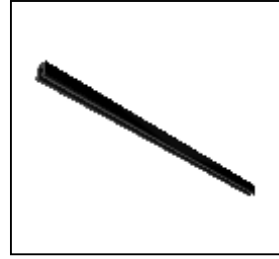
EQ30361 Starter HEX Adapter



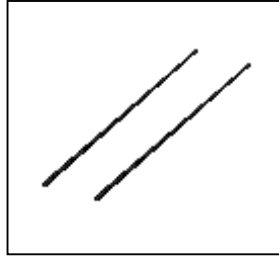
EQ30007 Radio tray Carbon Reinf. (V50c)



EQ30006 Body Retaining Frame (V50c)



EQ30038 Fuel Tank Rubber Seal (V50c)



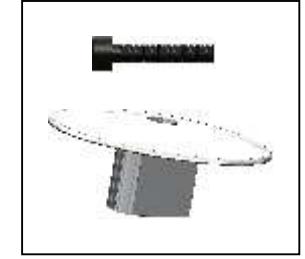
EQ30047 C. F. Rear Servo Rod d3,D4,L220mm



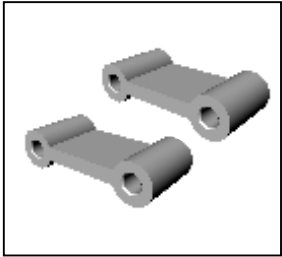
EQ30046 Threaded Coupler d4, M2.3



EQ30028 Landing Skid Brace Mount (V50c)



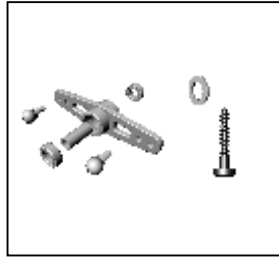
EQ30029 Head Stop (V50c)



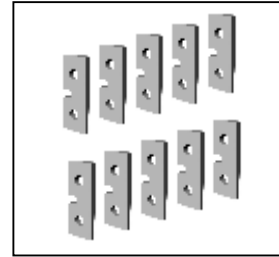
EQ30030 Frame Spacer Medium (V50c)



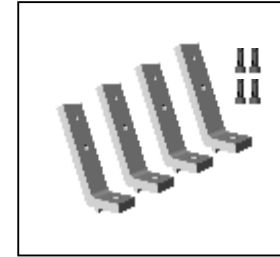
EQ0062 Rubber Grommets (Black)



EQ2071 Tail Rotor Bell Crank (Metal)



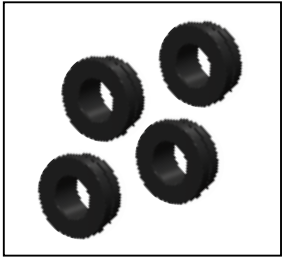
EQ0054 Servo Mounting Plate



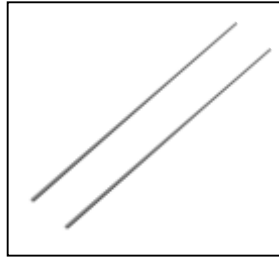
EQ30024 Servo Mount Side Set (V50c)



EQ10379 Swash Plate UltraLight (V50)



EQ10373 Fuel Tank Grommets (Black)



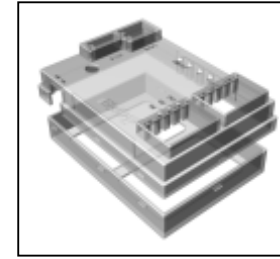
EQ2001 Antenna Tube



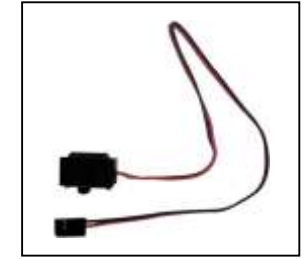
EQ30021 Tail Rotor Bell Crank Support (V50c)



EQ10381 HiperFan (Metal)



EQ10359 Voltage Regulator Plastic Box



EQ3000 Switch ON/OFF for Voltage Regulator

Spare Parts



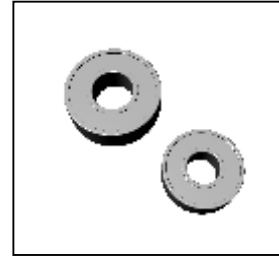
EQ3001 RX cable for Voltage Regulator male/male Futaba housing



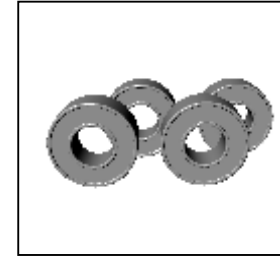
EQ3002 RX cable for Voltage Regulator male/male JR housing



EQ3003 Y Cable for Voltage Regulator



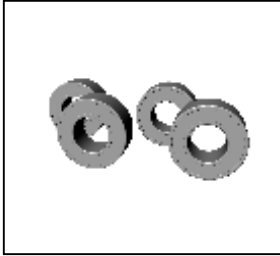
EQ2013 Starter Brg d8,D19,W6-d6,D15,W5



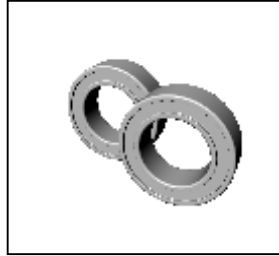
EQ2014 Bearing d6, D13, W5



EQ2011 Bearing d3, D6, W2.5



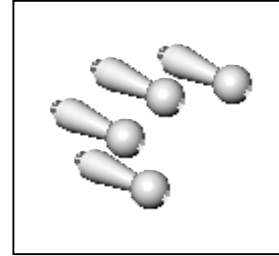
EQ2017 Bearing d5, D10, W4



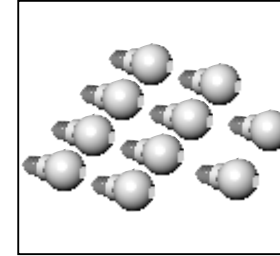
EQ2016 Bearing d6, D10, W3



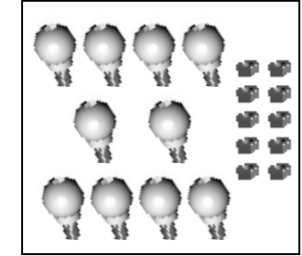
EQ2012 Bearing d4, D7, W2.5



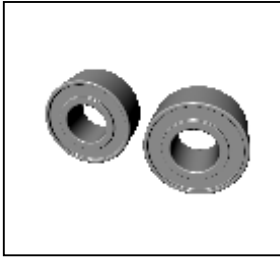
EQ2005 Ball M3 L=11 (stainless steel)



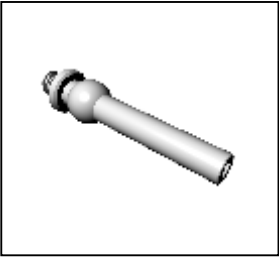
EQ2006 Ball SelfTapp. (stainless steel)



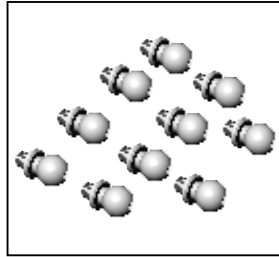
EQ2002 Ball M2 (stainless steel)



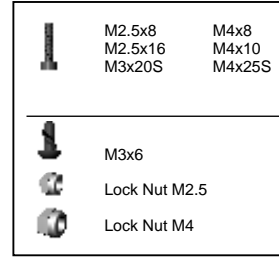
EQ2018 Bearing d5, D11, W5



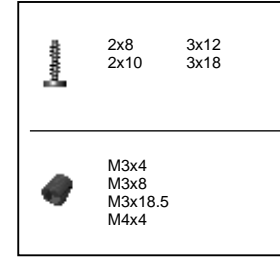
EQ2003 Ball M3 L=20 (stainless steel)



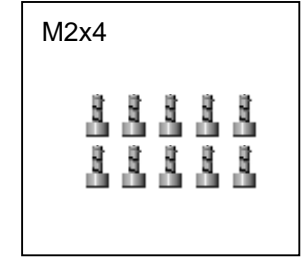
EQ2004 Ball M3 (stainless steel)



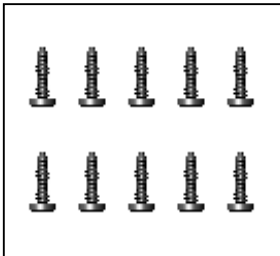
EQ2051 Screw Bag (5pcs each)



EQ2052 Screw Bag (10pcs each)



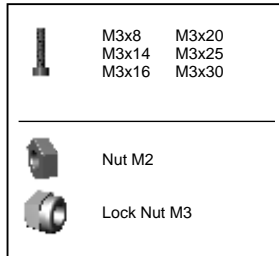
EQ30039 Screw Bag M2x4 (10pcs)



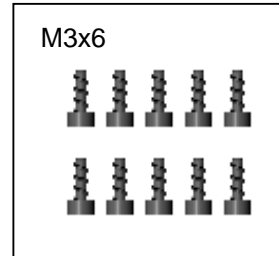
EQ2053 Screw Selftapping 2.6x12



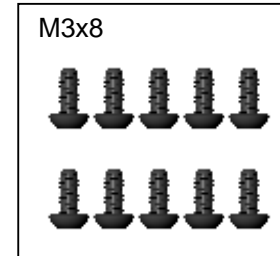
EQ30056 Self-tapping Screw 2.5x16



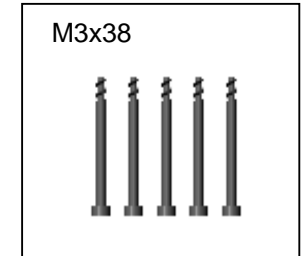
EQ2050 Screw Bag (10pcs each)



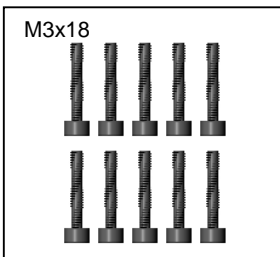
EQ30040 Screw Bag M3x6 (10pcs)



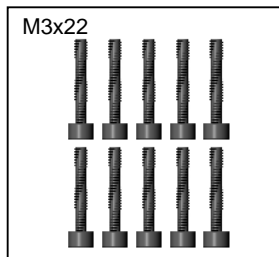
EQ30041 Button Head Screw Bag M3x8 (10pcs)



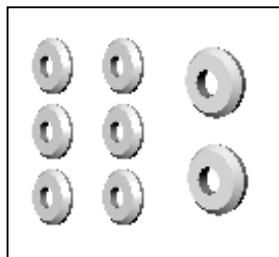
EQ30042 Screw Bag M3x38 (5pcs)



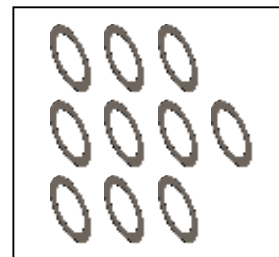
EQ30043 Screw Bag M3x18 (10pcs)



EQ30044 Screw Bag M3x22 (10pcs)



EQ2054 Washer Bag



EQ30074 Washer Shims d5, D7, W0.1 (10pcs)



EQ0312 Header Tank Spare Bracket

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NOTE:

Additional information on this product and answers to frequently asked question can be found at our Customer Support Website.

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