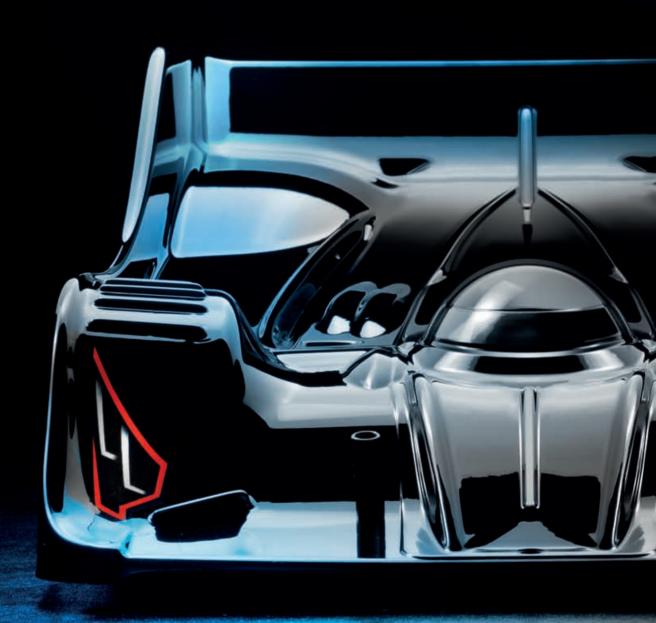
1/8 LUXURY PAN CAR

4-7-1



INSTRUCTION MANUAL

#### **BEFORE YOU START**

This is a high-competition, high-quality RC car intended for persons aged 16 years and older with previous experience building and operating RC model racing cars. This is NOT a toy; it is a precision racing model. This model racing car is not intended for use by beginners, inexperienced customers, or by children without direct supervision of a responsible, knowledgeable adult. If you DO NOT fulfill these requirements, please return the kit in unused and unassembled form back to the shop where you have purchased it.

Before building and operating your XRAY, YOU MUST read through all of the operating instructions and instruction manual and fully understand them to get the maximum enjoyment and prevent unnecessary damage.

**CUSTOMER SUPPORT** 

We have made every effort to make these instructions as easy to understand as possible. However, if you have any difficulties, problems, or questions, please DO NOT hesitate to contact the XRAY support team at <a href="mailto:info@teamxray.com">info@teamxray.com</a>. Also, please visit our Web site at <u>www.teamxray.com</u> to find the latest updates, set-up information, option parts, and many other goodies. We pride ourselves on taking excellent care of our customers.

You can join thousands of XRAY fans and enthusiasts in our online community at:

www.teamxray.com

Read carefully and fully understand the instructions before beginning assembly.

Make sure you review this entire manual, download and use set-up book from the web, and examine all details carefully. If for some reason you decide this is not what you wanted or expected, DO NOT continue any further. Your hobby dealer can not accept your kit for return or exchange after it has been partially or fully assembled.

Contents of the box may differ from pictures. In line with our policy of continuous product development, the exact specifications of the kit may vary without prior

**XRAY Europe** 

K Vystavisku 6992 91101 Trenčín Slovakia, EUROPE Phone: 421-32-7401100 Fax: 421-32-7401109

E-mail: info@teamxray.com

#### **XRAY USA**

RC America, 2030 Century Center Blvd #15 Irving, TX 75062 USA

Phone: (214) 744-2400 Fax: (214) 744-2401 E-mail: xray@rcamerica.com

#### FAILURE TO FOLLOW THESE INSTRUCTIONS WILL BE CONSIDERED AS ABUSE AND/OR NEGLECT.

#### SAFETY PRECAUTIONS

Contains:

LEAD (CAS 7439-92-1) ANTIMONY (CAS 7440-36-0)

WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

**CAUTION: CANCER HAZARD** 

Contains lead, a listed carcinogen. Lead is harmful if ingested. Wash thoroughly after using. DO NOT use product while eating, drinking or using tobacco products. May cause chronic effects to gastrointestinal tract, CNS, kidneys, and blood. MAY CAUSE BIRTH DEFECTS.

When building, using and/or operating this model always wear protective glasses and gloves.

Take appropriate safety precautions prior to operating this model. You are responsible for this model's assembly and safe operation! Please read the instruction manual before building and operating this model and follow all safety precautions. Always keep the instruction manual at hand for quick reference, even after completing the assembly. Use only genuine and original authentic XRAY parts for maximum performance. Using any third party parts on this model will void guaranty immediately.

Improper operation may cause personal and/or property damage. XRAY and its distributors have no control over damage resulting from shipping, improper construction, or improper usage. XRAY assumes and accepts no responsibility for personal and/or property damages resulting from the use of improper building materials, equipment and operations. By purchasing any item produced by XRAY, the buyer expressly warrants that he/she is in compliance with all applicable federal, state and local laws and regulation regarding the purchase, ownership and use of the item. The buyer expressly agrees to indemnify and hold harmless XRAY for all claims resulting directly or indirectly from the purchase, ownership or use of the product. By the act of assembling or operating this product, the user accepts all resulting liability. If the buyer is not prepared to accept this liability, then he/she should return this kit in new, unassembled, and unused condition to the place of purchase.



#### **IMPORTANT NOTES - GENERAL**

- · This product is not suitable for children under 16 years of age without the direct supervision of a responsible and knowledgeable adult.
- Carefully read all manufacturers warnings and cautions for any parts used in the construction and use of your model.
- Assemble this kit only in places away from the reach of very small children.
- First-time builders and users should seek advice from people who have building experience in order to assemble the model correctly and to allow the model to reach its performance potential.
- Exercise care when using tools and sharp instruments.
- Take care when building, as some parts may have sharp edges.
- Keep small parts out of reach of small children. Children must not be allowed to put any parts in their mouth, or pull vinyl bag over their head.
- Read and follow instructions supplied with paints and/or cement, if used (not included in kit).
- Immediately after using your model, DO NOT touch equipment on the model such as the motor and speed controller, because they generate high temperatures. You may seriously burn yourself seriously touching them.
- Follow the operating instructions for the radio equipment at all times.
- DO NOT put fingers or any objects inside rotating and moving parts, as this may cause damage or serious injury as your finger, hair, clothes, etc. may get caught.
- Be sure that your operating frequency is clear before turning on or running your model, and never share the same frequency with somebody else at the same time. Ensure that others are aware of the operating frequency you are using and when you are using it.
- Use a transmitter designed for ground use with RC cars. Make sure that no one else is using the same frequency as yours in your operating area. Using the same frequency at the same time, whether it is driving, flying or sailing, can cause loss of control of the RC model, resulting in a serious accident.
- Always turn on your transmitter before you turn on the receiver in the car. Always turn off the receiver before turning your transmitter off.
- Keep the wheels of the model off the ground when checking the operation of the radio equipment.

- Disconnect the battery pack before storing your model.
- When learning to operate your model, go to an area that has no obstacles that can damage your model if your model suffers a collision.
- Remove any sand, mud, dirt, grass or water before putting your model
- If the model behaves strangely, immediately stop the model, check and clear the problem.
- To prevent any serious personal injury and/or damage to property, be responsible when operating all remote controlled models.
- The model car is not intended for use on public places and roads or areas where its operation can conflict with or disrupt pedestrian or vehicular traffic.
- · Because the model car is controlled by radio, it is subject to radio interference from many sources that are beyond your control. Since radio interference can cause momentary loss of control, always allow a safety margin in all directions around the model in order to prevent collisions.
- DO NOT use your model:
  - Near real cars, animals, or people that are unaware that an RC car is being driven.
  - In places where children and people gather
  - In residential districts and parks
  - In limited indoor spaces
  - In wet conditions
  - In the street
  - In areas where loud noises can disturb others, such as hospitals and residential areas.
  - At night or anytime your line of sight to the model may be obstructed or impaired in any way.

To prevent any serious personal injury and/or damage to property, please be responsible when operating all remote controlled models.



### A

#### **IMPORTANT NOTES - ELECTRICAL**

- Insulate any exposed electrical wiring (using heat shrink tubing or electrical tape) to prevent dangerous short circuits. Take maximum care in wiring, connecting and insulating cables. Make sure cables are always connected securely. Check connectors for if they become loose. And if so, reconnect them securely. Never use RC models with damaged wires. A damaged wire is extremely dangerous, and can cause short-circuits resulting in fire. Please have wires repaired at your local hobby shop.
- Low battery power will result in loss of control. Loss of control can occur due
  to a weak battery in either the transmitter or the receiver. Weak running
  battery may also result in an out of control car if your car's receiver power is
  supplied by the running battery. Stop operation immediately if the car starts
  to slow down.
- When not using RC model, always disconnect and remove battery.
- DO NOT disassemble battery or cut battery cables. If the running battery short-circuits, approximately 300W of electricity can be discharged, leading to fire or burns. Never disassemble battery or cut battery cables.
- Use a recommended charger for the receiver and transmitter batteries and follow the instructions correctly. Over-charging, incorrect charging,

- or using inferior chargers can cause the batteries to become dangerously hot. Recharge battery when necessary. Continual recharging may damage battery and, in the worst case, could build up heat leading to fire. If battery becomes extremely hot during recharging, please ask your local hobby shop for check and/or repair and/or replacement.
- Regularly check the charger for potential hazards such as damage to the
  cable, plug, casing or other defects. Ensure that any damage is rectified
  before using the charger again. Modifying the charger may cause shortcircuit or overcharging leading to a serious accident. Therefore DO NOT
  modify the charger.
- · Always unplug charger when recharging is finished.
- DO NOT recharge battery while battery is still warm. After use, battery retains heat. Wait until it cools down before charging.
- DO NOT allow any metal part to short circuit the receiver batteries or other electrical/electronic device on the model.
- Immediately stop running if your RC model gets wet as may cause short circuit.
- Please dispose of batteries responsibly. Never put batteries into fire.

#### R/C & BUILDING TIPS

- Make sure all fasteners are properly tightened. Check them periodically.
- Make sure that chassis screws DO NOT protrude from the chassis.
- For the best performance, it is very important that great care is taken to ensure the free movement of all parts.
- Clean all ball-bearings so they move very easily and freely.
- Tap or pre-thread the plastic parts when threading screws
- Self-tapping screws cut threads into the parts when being tightened. DO NOT use excessive force when tightening the self-tapping screws because you may strip out the thread in the plastic. We recommended you stop tightening a screw when you feel some resistance.
- · Ask your local hobby shop for any advice.

Please support your local hobby shop. We at XRAY Model Racing Cars support all local hobby dealers. Therefore we ask you, if at all possible, to purchase XRAY products at your hobby dealer and give them your support like we do. If you have difficulty finding XRAY products, please check out www.teamxray.com to get advice, or contact us via email at info@teamxray.com, or contact the XRAY distributor in your country.

#### WARRANTY

XRAY guarantees this model kit to be free from defects in both material and workmanship within 30 days of purchase. The total monetary value under warranty will in no case exceed the cost of the original kit purchased. This warranty DOES NOT cover any components damaged by use or modification or as a result of wear. Part or parts missing from this kit must be reported within 30 days of purchase. No part or parts will be sent under warranty without proof of purchase. Should you find a defective or missing part, contact the local distributor. Service and customer support will be provided through local hobby store where you have purchased the kit, therefore make sure to purchase any XRAY products at your local hobby store. This model racing car is considered to be a high-performance racing vehicle. As such this vehicle will be used in an extreme range of conditions and situations, all which may cause premature wear or failure of any component. XRAY has no control over usage of vehicles once they leave the dealer, therefore XRAY can only offer warranty against all manufacturer's defects in materials, workmanship, and assembly at point of sale and before use. No warranties are expressed or implied that cover damage caused by what is considered normal use, or cover or imply how long any model cars' components or electronic components will last before requiring replacement.

Due to the high performance level of this model car you will need to periodically maintain and replace consumable components. Any and all warranty coverage will not cover replacement of any part or component damaged by neglect, abuse, or improper or unreasonable use. This includes but is not limited to damage from crashing, chemical and/or water damage, excessive moisture, improper or no maintenance, or user modifications which compromise the integrity of components. Warranty will not cover components that are considered consumable on RC vehicles. XRAY DOES NOT pay nor refund shipping on any component sent to XRAY or its distributors for warranty. XRAY reserves the right to make the final determination of the warranty status of any component or part.

#### **Limitations of Liability**

XRAY makes no other warranties expressed or implied. XRAY shall not be liable for any loss, injury or damages, whether direct, indirect, special, incidental, or consequential, arising from the use, misuse, or abuse of this product and/or any product or accessory required to operate this product. In no case shall XRAY's liability excess the monetary value of this product.

Take adequate safety precautions prior to operating this model. You are responsible for this model's assembly and safe operation.

Disregard of the any of the above cautions may lead to accidents, personal injury, or property damage. XRAY MODEL RACING CARS assumes no responsibility for any injury, damage, or misuse of this product during assembly or operation, nor any addictions that may arise from the use of this product.

All rights reserved.

#### **QUALITY CERTIFICATE**

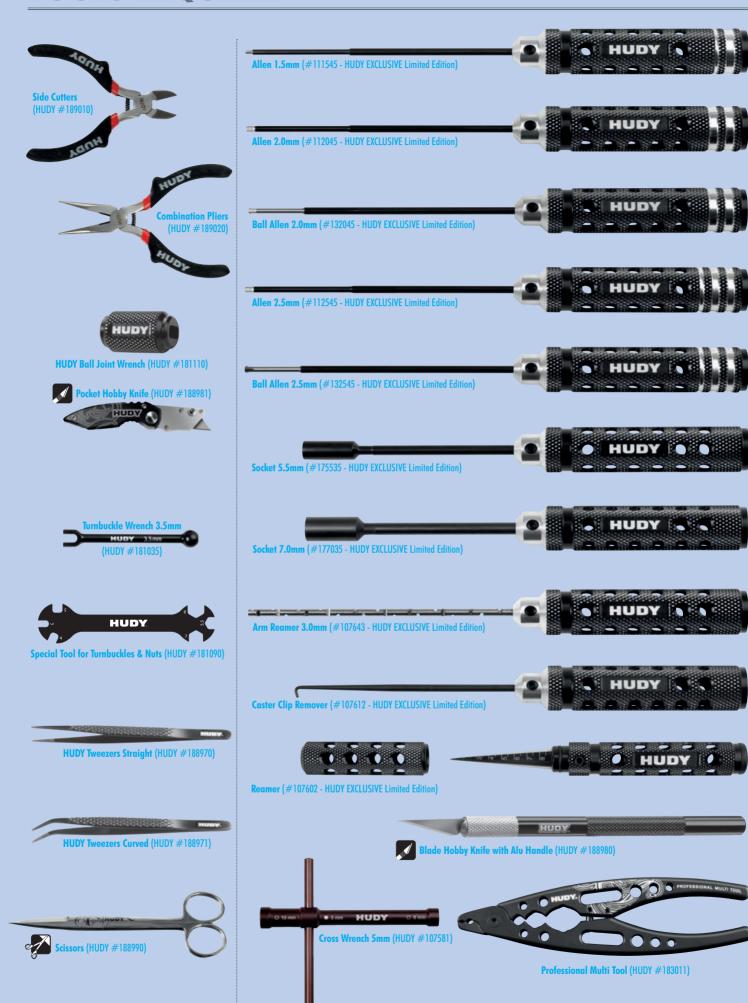
XRAY MODEL RACING CARS uses only the highest quality materials, the best compounds for molded parts and the most sophisticated manufacturing processes of TQM (Total Quality Management). We guarantee that all parts of a newly-purchased kit are manufactured with the highest regard to quality. However, due to the many factors inherent in model racecar competition, we

cannot guarantee any parts once you start racing the car. Products which have been worn out, abused, neglected or improperly operated will not be covered under warranty.

We wish you enjoyment of this high-quality and high-performance RC car and wish you best success on the track!

In line with our policy of continuous product development, the exact specifications of the kit may vary. In the unlikely event of any problems with your new kit, you should contact the model shop where you purchased it, quoting the part number.

We do reserve all rights to change any specification without prior notice. All rights reserved.



#### **EQUIPMENT INCLUDED**

\* Kit includes smaller but sufficient amount of grease to build the car.

(HUDY #106210) Premium Graphite Grease



#### **NOT INCLUDED**



#### Follow Set-Up Book:

To ensure that you always have access to the most up-to-date version of the Set-up Book you can download the HUDY Set-up Book from their web site at [www.hudy. net] By offering this online version instead of including a hardcopy printed version in kits, you will always be assured of having the most current updated version.



SAMPLE OF OPTIONAL PARTS		
#34XXXX	TYPE1	OPTION 1
#34XXXX	TYPE2	OPTION 2
#34XXXX	TYPE	INCLUDED
#34XXXX	TYPE3	OPTION 3

XRAY offers wide range of optional tuning parts which are listed in a table like this. Please refer to the exploded view of each main section to verify which part is included in the kit while all other parts are available only as an optional part and must be purchased separately.

#### **COLOR INDICATIONS**

At the beginning of each section is an exploded view of the parts to be assembled. There is also a list of all the parts and part numbers that are related to the assembly of that section.

The part descriptions are color-coded to make it easier for you to identify the source of a part. Here are what the different colors mean:

341132

STYLE A - indicates parts that are included in the bag marked for the section.

341130

STYLE B - indicates parts that are included in the box.

345001

**STYLE C** - indicates parts that are already assembled from previous steps.

346132

STYLE D - indicates parts that are optional.

#### **EQUIPMENT REQUIRED**



Flectric Motor

1/8 On-road Body

Snap Ring Pliers





Pinion Gear





(HUDY #294213~25)



Double-sided Tape



Set-up Station



Steering Servo



Wheels & Tires



Threadlock





**Battery Charger** 



Tire Truer



Bearing Oil



Ride Height Gauge 2~15mm



LiPo Battery Pack



Lexan™ Paint



One-Way Bearing Oil

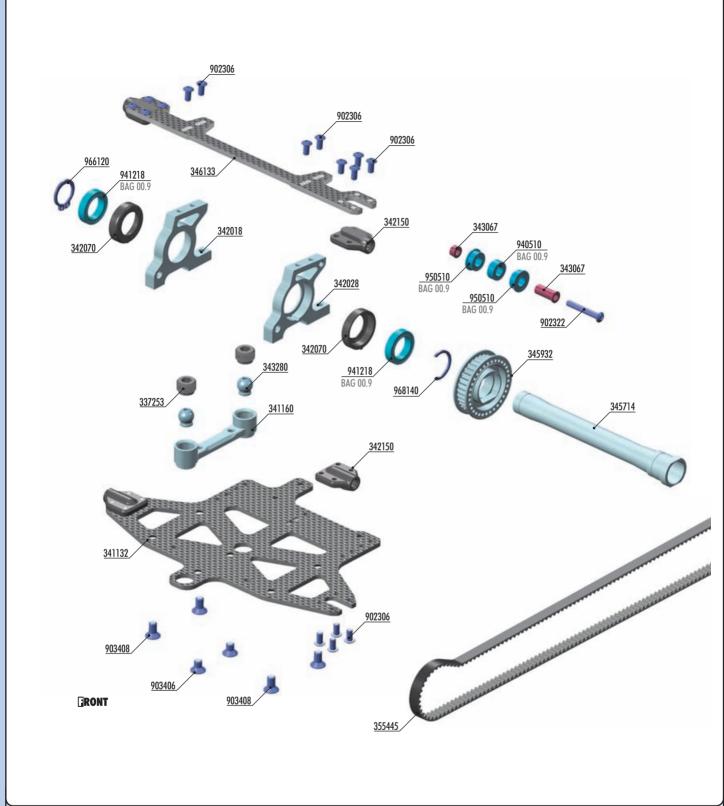


Set-Up Board Lightweight





#### 1. FRONT TRANSMISSION





346133

337253 COMPOSITE ADJUSTING NUT M10x1 WITH BALL CUP (4) **X8 GRAPHITE FRONT SUSPENSION PLATE** 341132 X8 ALU CHASSIS PIVOT HOLDER - HARD COATED - SWISS 7075 T6 341160 X8 ALU LOWER BULKHEAD FRONT - RIGHT - SWISS 7075 T6 342018 342028 X8 ALU LOWER BULKHEAD FRONT - LEFT - SWISS 7075 T6 COMPOSITE SET OF BUSHINGS (2) 342070 X8 COMPOSITE SUSPENSION BALL JOINT ADAPTER (2) 342150 343067 **X8 STEEL BUSHING SHORT & LONG** HARD STEEL PIVOT BALL 8MM (2) 343280 LOW FRICTION DRIVE BELT SIDE 6.0 x 699MM 345445 345714 X8 ALU FRONT SHAFT WITH ONE-WAY BEARINGS - SWISS 7075 T6 X8 ALU SIDE BELT PULLEY 32T - HARD COATED - SWISS 7075 T6 345932

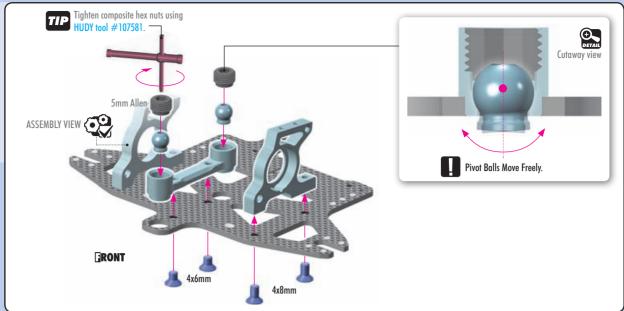
X8 GRAPHITE FRONT UPPER SUSPENSION PLATE

HEX SCREW SH M3x6 (10) 902306 HEX SCREW SH M3x22 (10) 902322 HEX SCREW SFH M4x6 (10) 903406 HEX SCREW SFH M4x8 (10) 903408 940510 BALL-BEARING 5x10x4 RUBBER SEALED - OIL (2) 941218 BALL-BEARING 12x18x4 RUBBER SEALED - OIL (2) BALL-BEARING 5x10x4 FLANGED - STEEL SEALED - OIL (2) 950510 966120 CH-CLIP 12 (10) 968140 C-CLIP 14 (10)

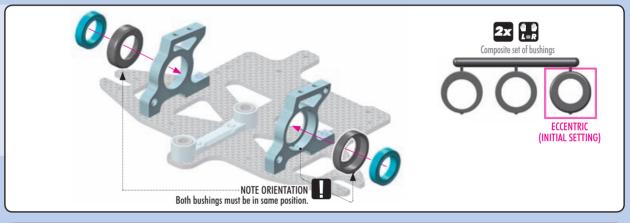


### 1. FRONT TRANSMISSION

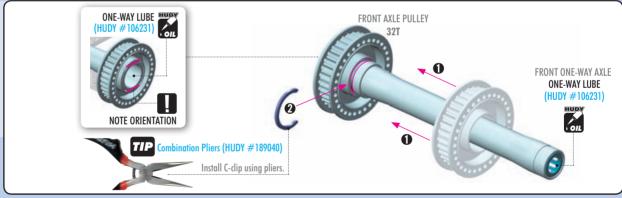




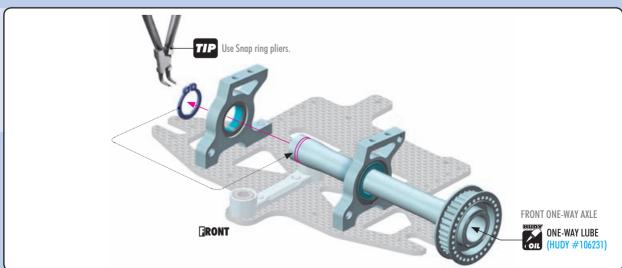






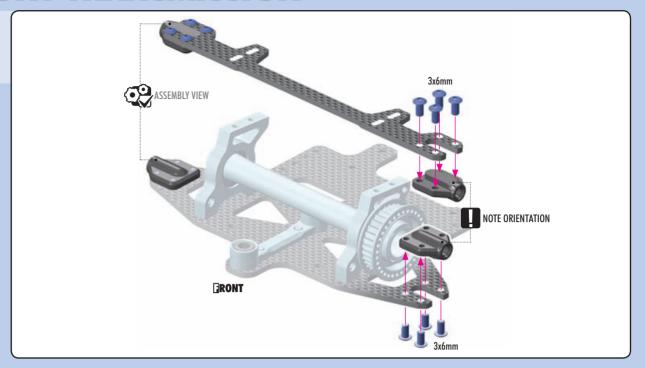




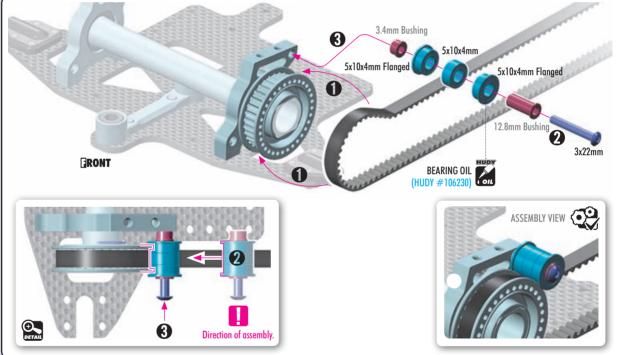


## 1. FRONT TRANSMISSION



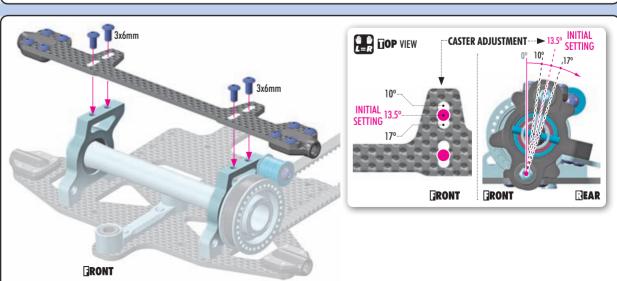






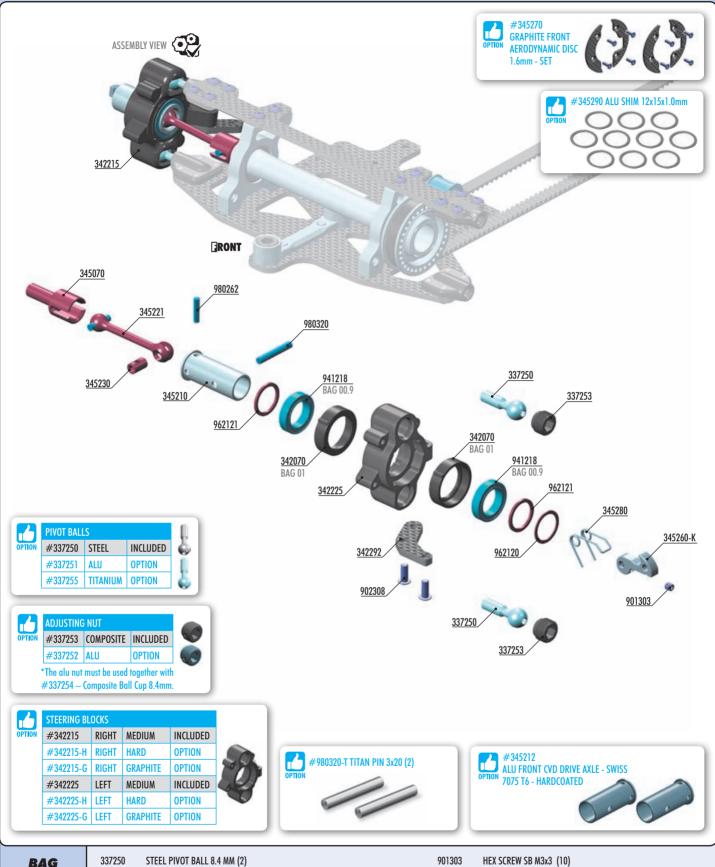


4x 902306 SH M3x6





#### 2. FRONT SUSPENSION



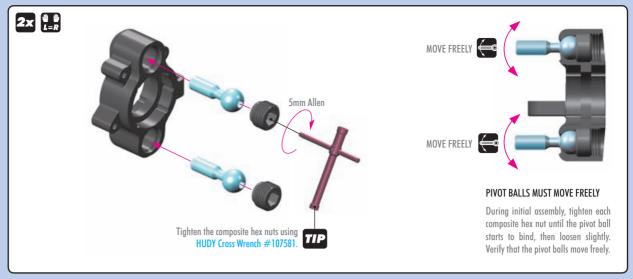


337250 STEEL PIVOT BALL 8.4 MM (2) 337253 COMPOSITE ADJUSTING NUT M10x1 (4) 342070 COMPOSITE SET OF BUSHINGS (2) 342215 EXTRA ECCENTRIC STEERING BLOCK FOR AERO DISC - RIGHT - MEDIUM EXTRA ECCENTRIC STEERING BLOCK FOR AERO DISC - LEFT - MEDIUM 342225 X8 GRAPHITE EXTENSION FOR STEERING BLOCK (2) 342292 FRONT ONE-WAY AXLE OUTDRIVE ADAPTER - HUDY SPRING STEEL™ (2) 345070 345210 FRONT WHEEL AXLE - HUDY SPRING STEEL 345221 FRONT CVD DRIVE SHAFT 37MM - HUDY SPRING STEEL™ DRIVE SHAFT COUPLING - HUDY SPRING STEEL 345230 ALU FRONT WHEEL LOCK - SWISS 7075 T6 - BLACK (2) 345260-K WHEEL SPRING (2) 345280

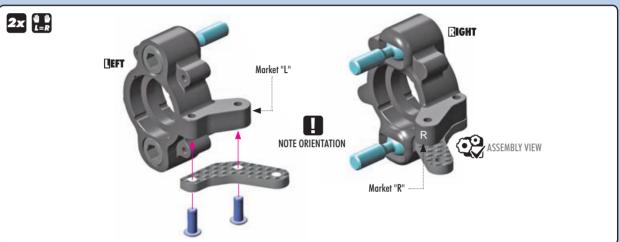
901303 HEX SCREW SB M3x3 (10) 902308 HEX SCREW SH M3x8 (10) 941218 BALL-BEARING 12x18x4 RUBBER SEALED - OIL (2) 962120 WASHER S 12x15x0.5 (10) 967121 WASHER S 12x15x1 0 (10)

962121 WASHER S 12x15x1.0 (10) 980262 PIN 2.5x12 (10) 980320 PIN 3x20 (10)

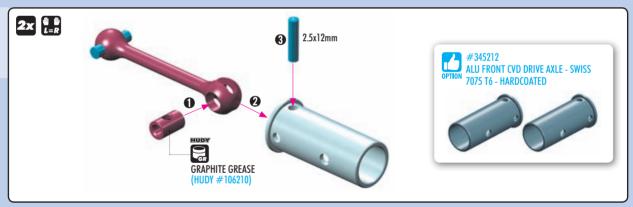
### 2. FRONT SUSPENSION



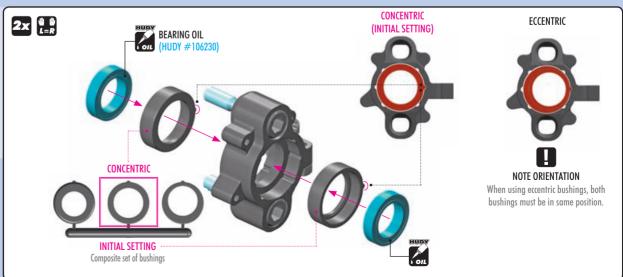






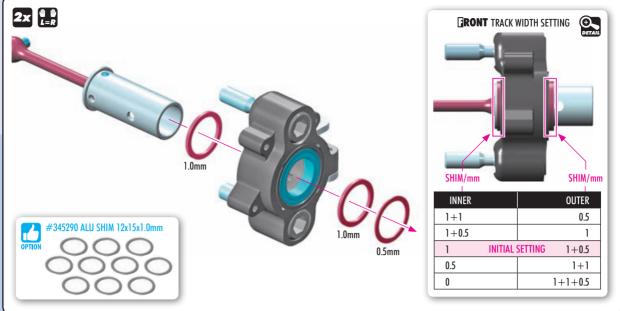




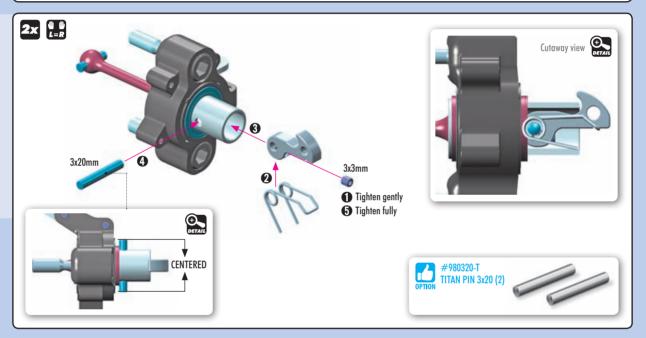


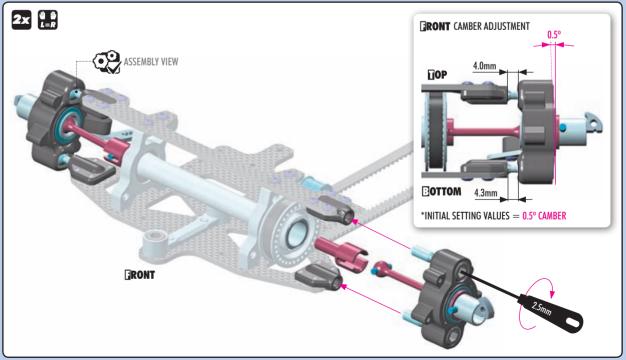
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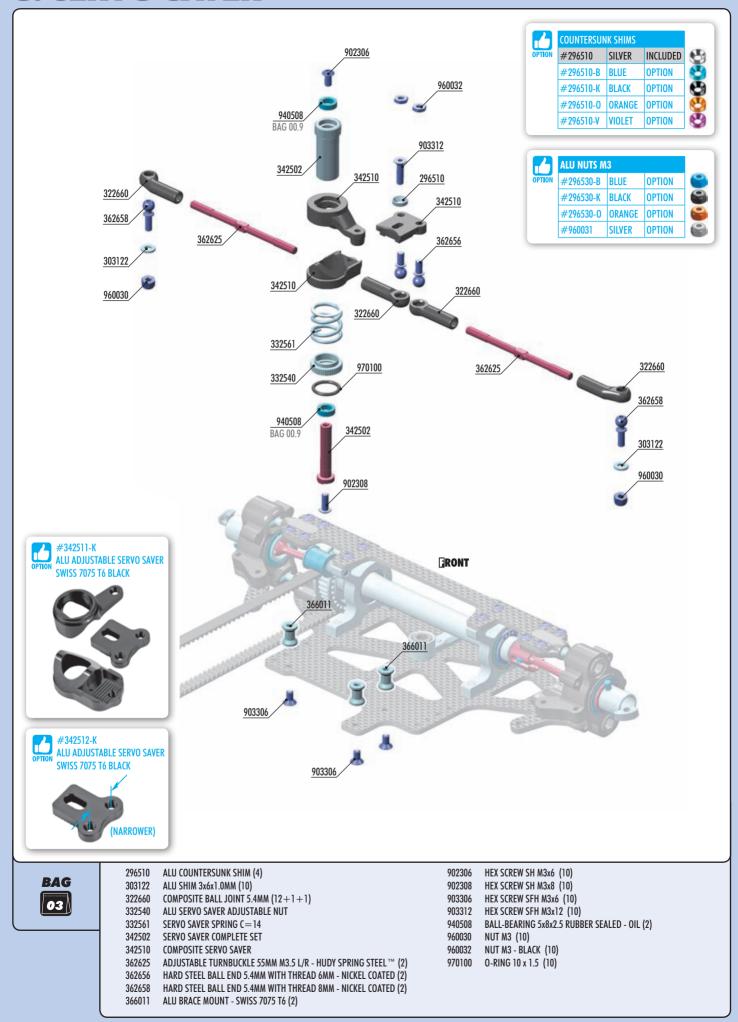






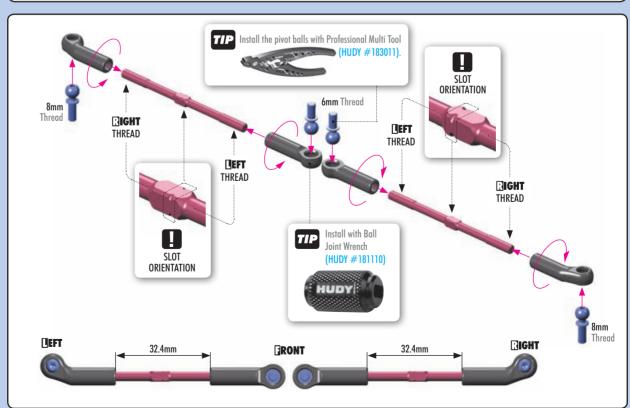


### 3. SERVO SAVER



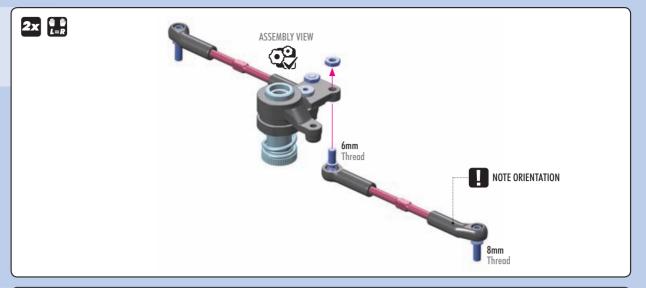






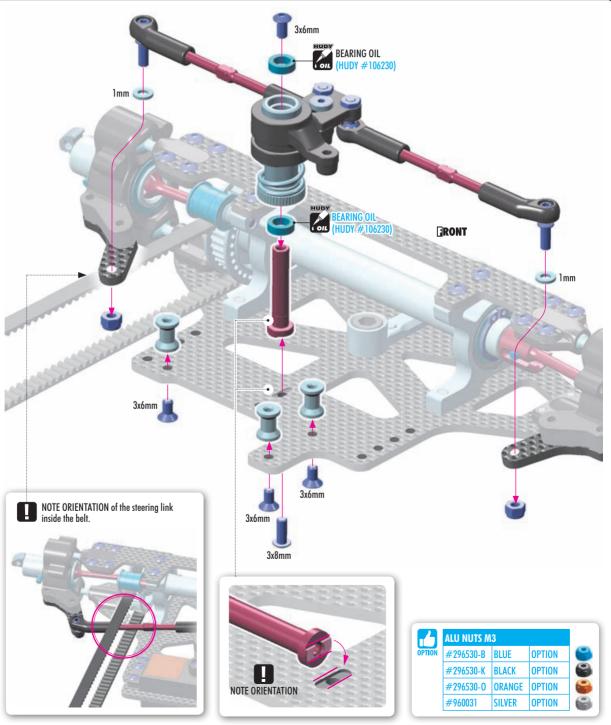
## 3. SERVO SAVER





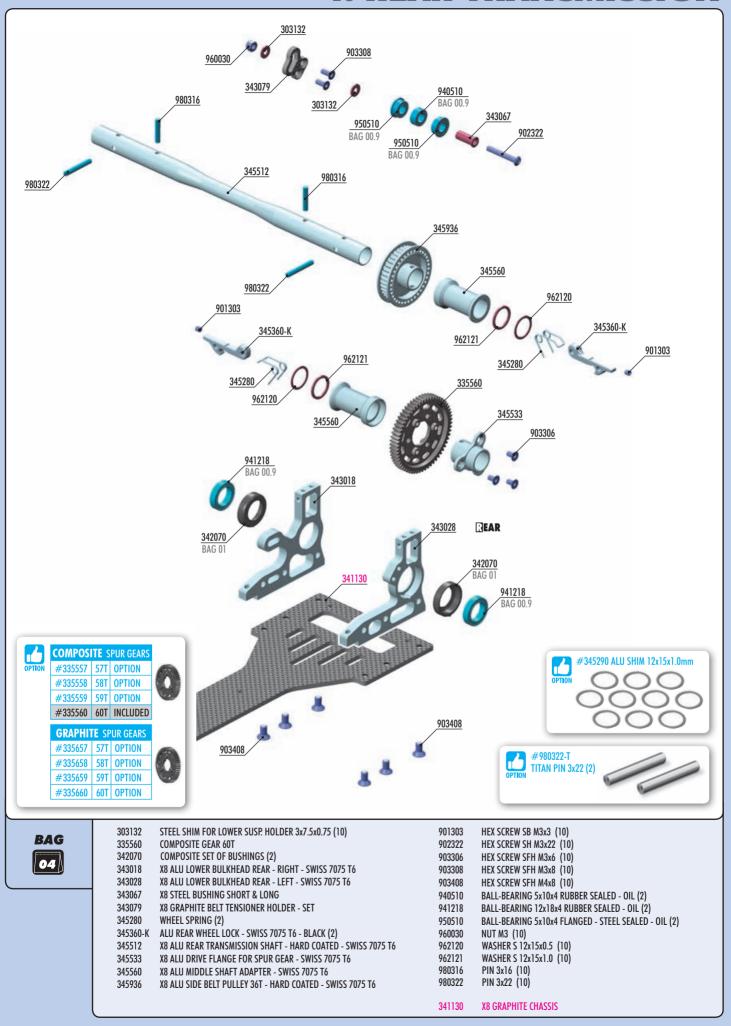


2x 960030 N M3





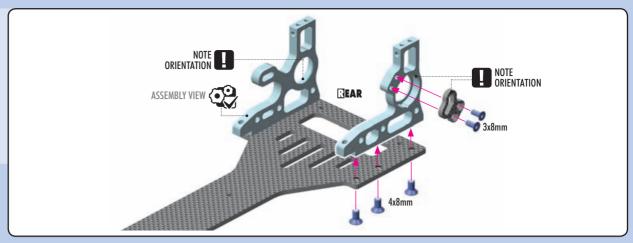
### 4. REAR TRANSMISSION



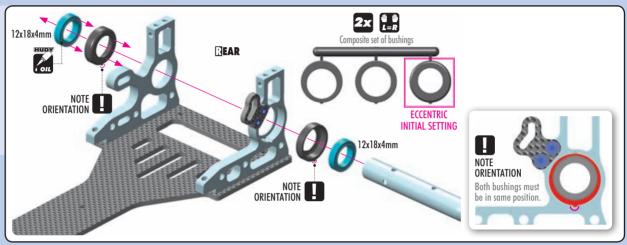
### 4. REAR TRANSMISSION



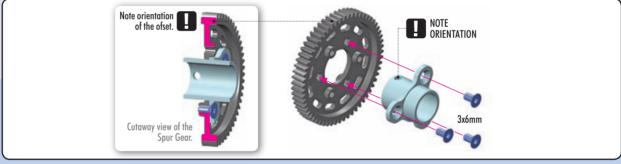


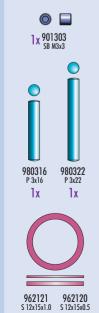






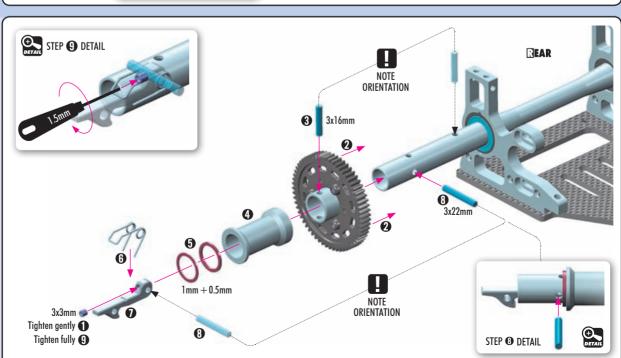




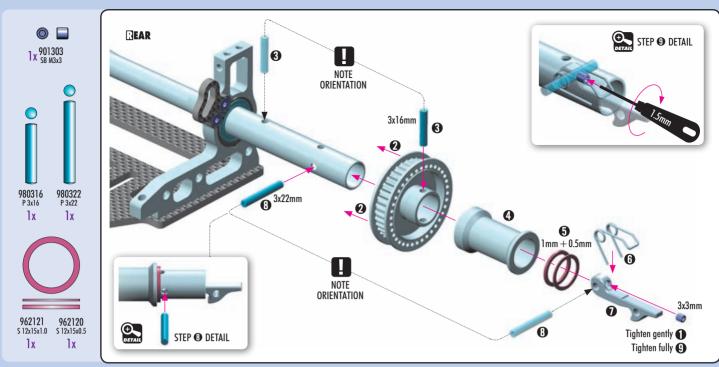


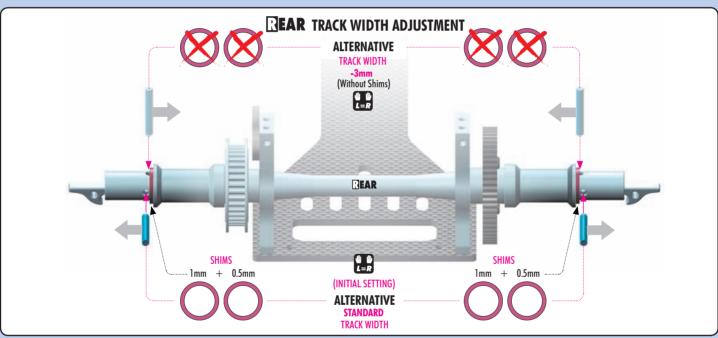
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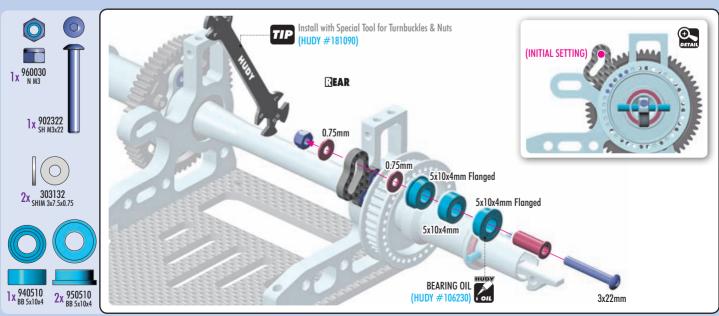
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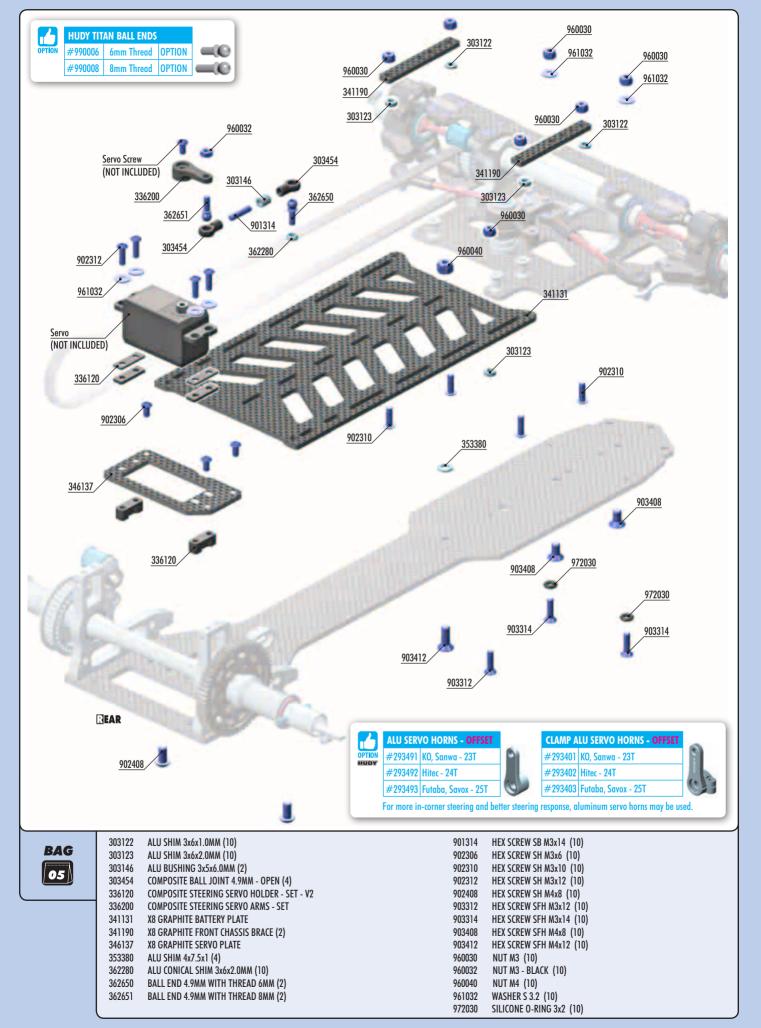


### 4. REAR TRANSMISSION



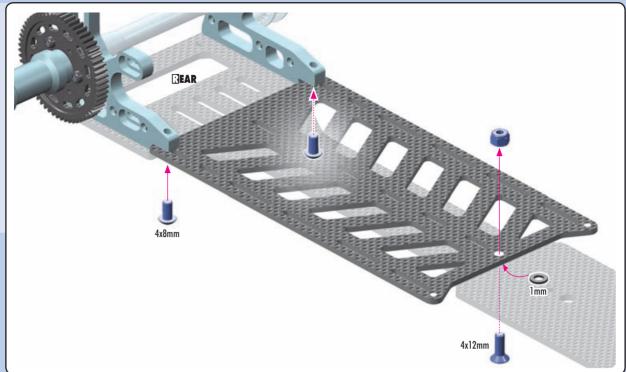




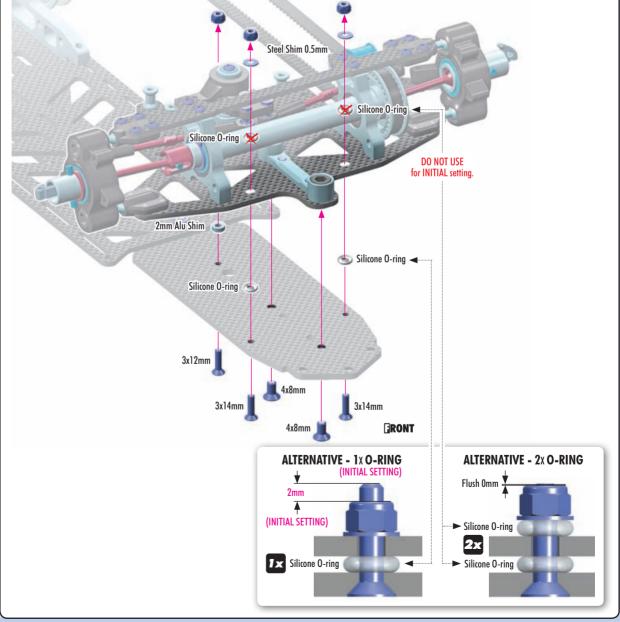


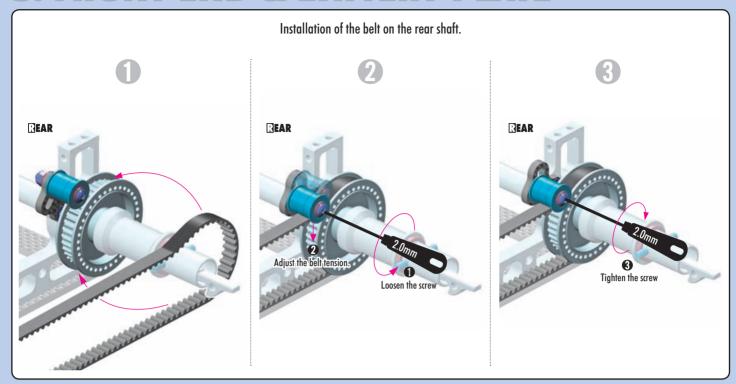






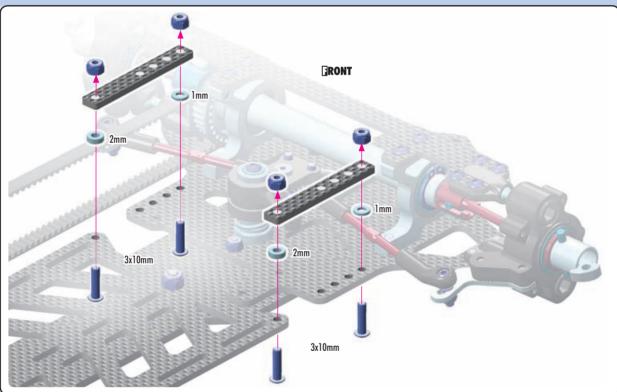




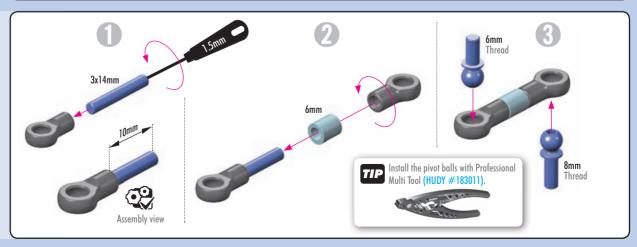




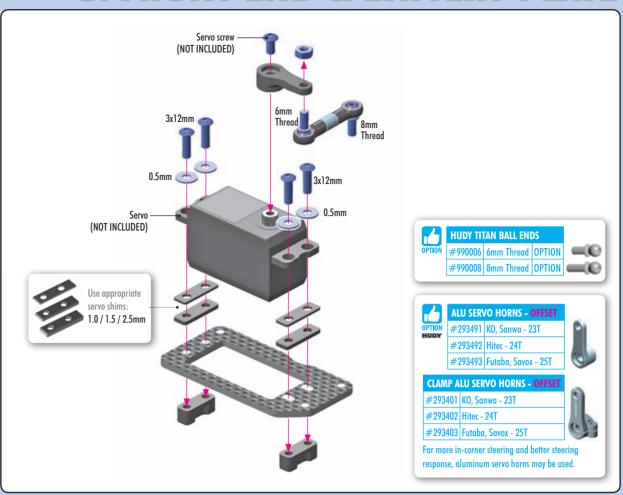
3x 960030





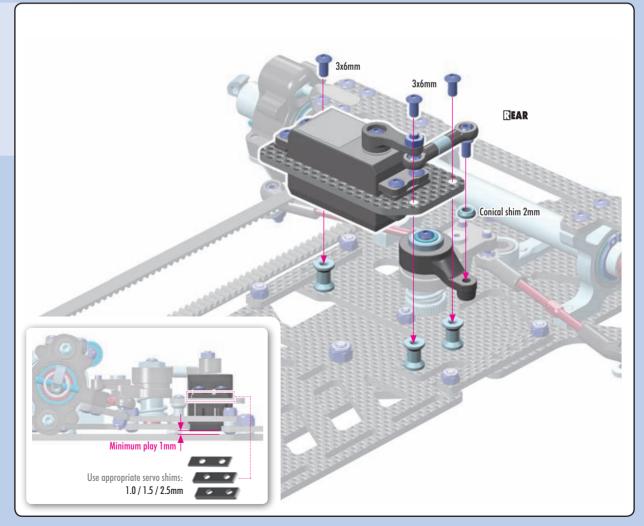




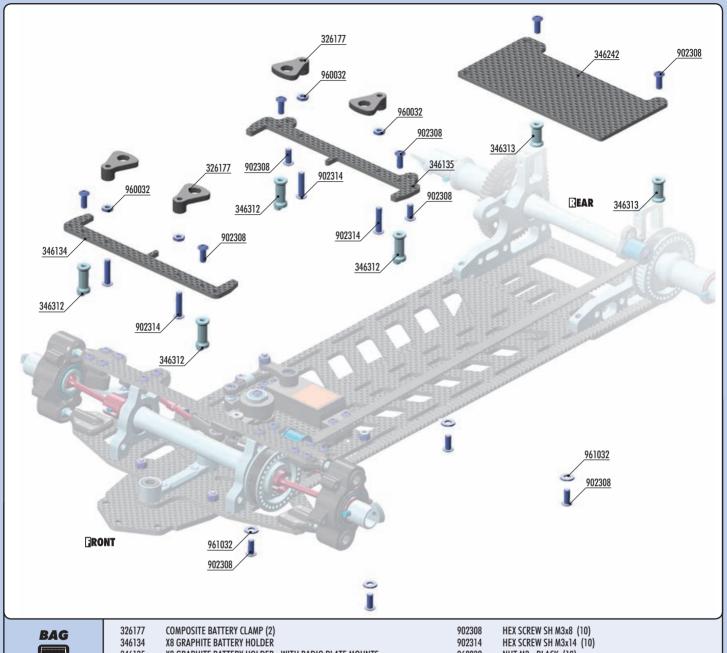








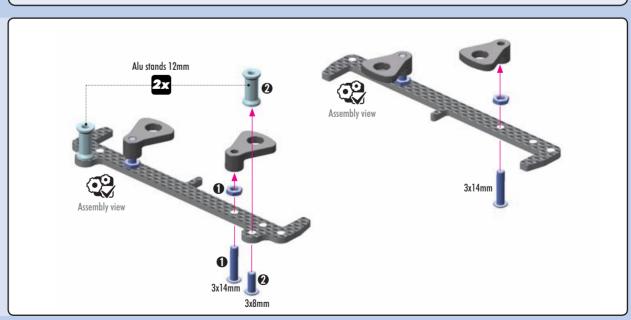
### 6. BATT. HOLDERS & ELECTRONICS PLATE



X8 GRAPHITE BATTERY HOLDER - WITH RADIO PLATE MOUNTS X8 GRAPHITE ELECTRONICS PLATE
X8 ALU SLOT MOUNT - BLACK - SWISS 7075 T6 (2)
X8 ALU MOUNT 12MM - BLACK - SWISS 7075 T6 (2) 

NUT M3 - BLACK (10) WASHER S 3.2 (10) 

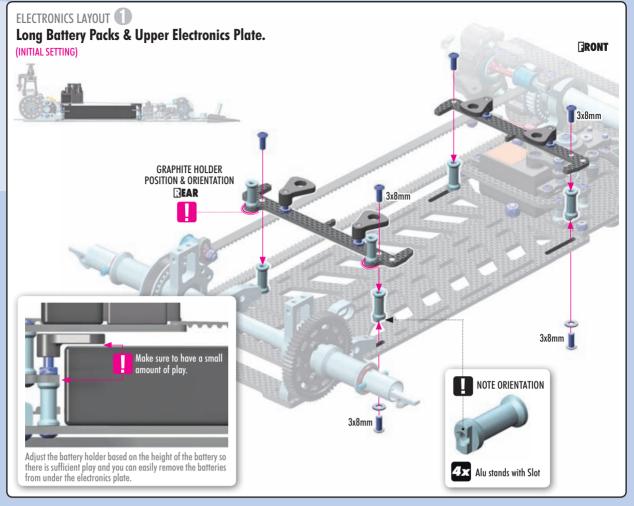




### 6. BATT. HOLDERS & ELECTRONICS PLATE

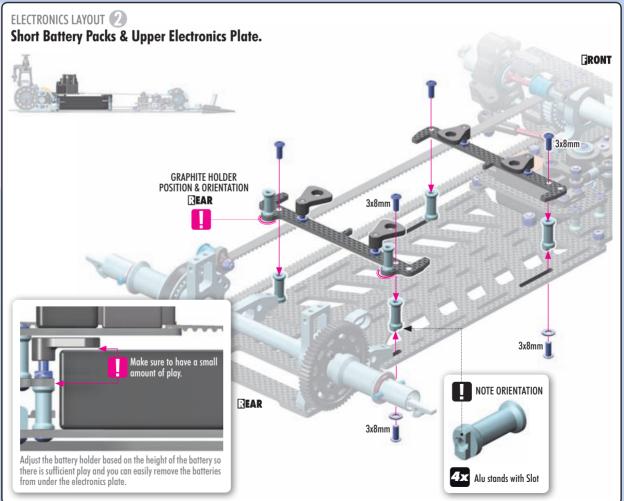








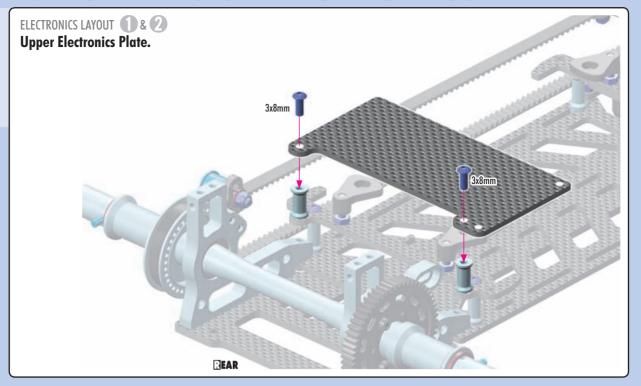






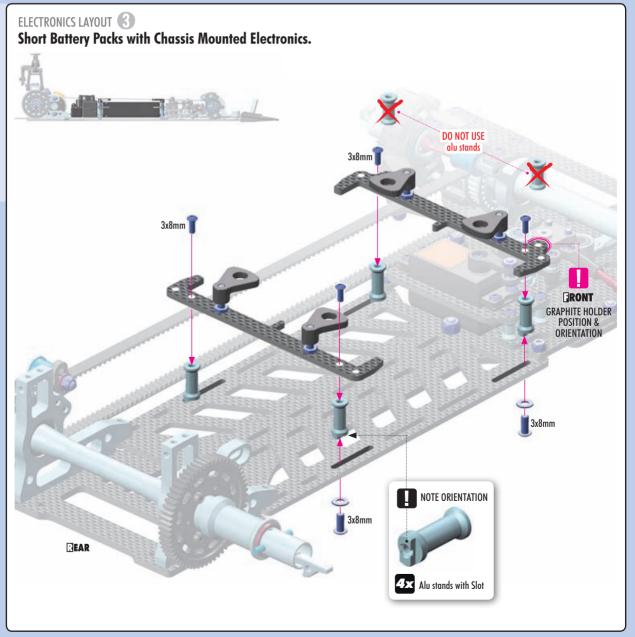
### 6. BATT. HOLDERS & ELECTRONICS PLATE



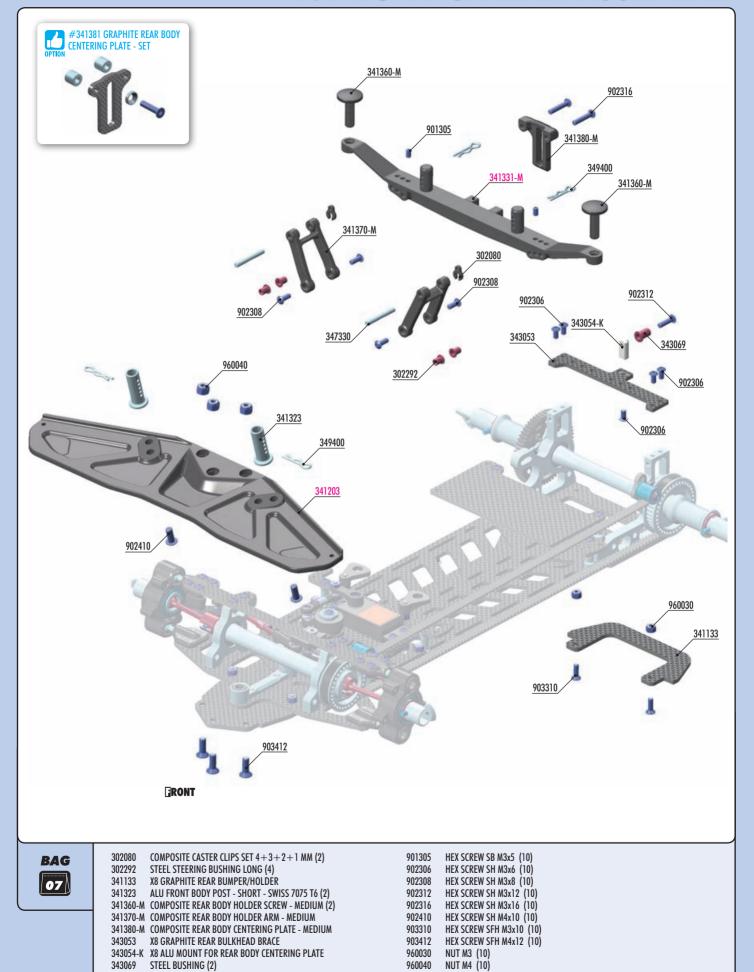












960040

341203

**COMPOSITE BUMPER - DOWNFORCE** 341331-M COMPOSITE REAR BODY HOLDER - HIGHER - MEDIUM



STEEL BUSHING (2)

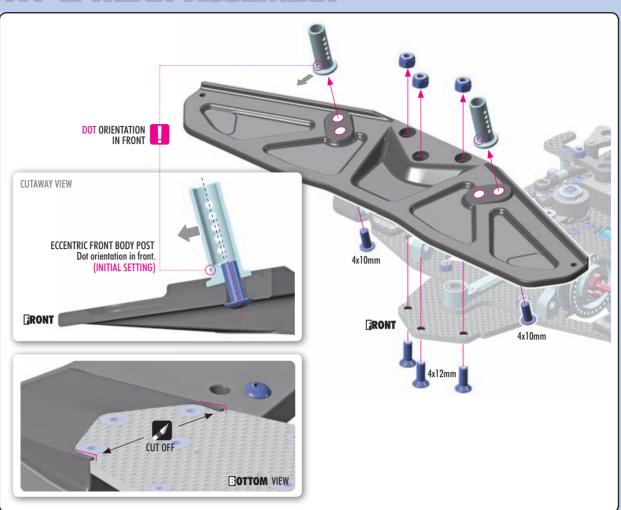
BODY CLIP (10)

REAR BODY HOLDER ARM PIN (2)

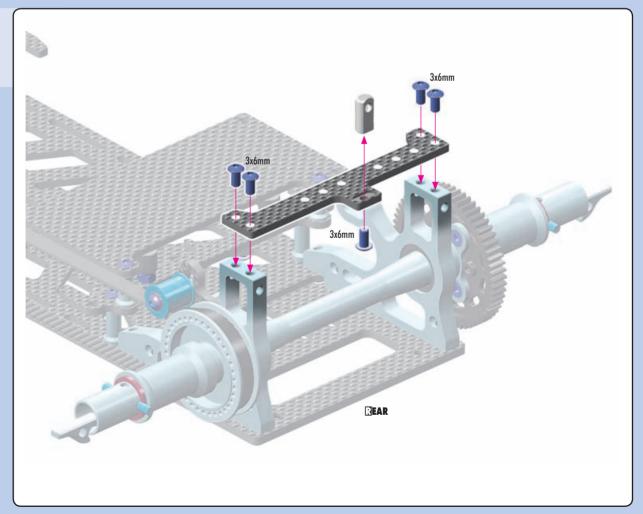
343069

347330 349400

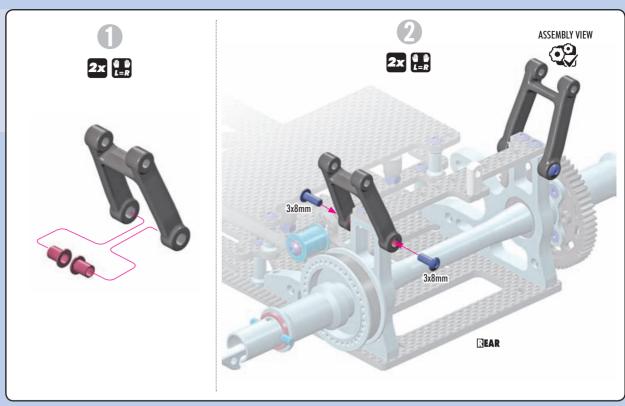




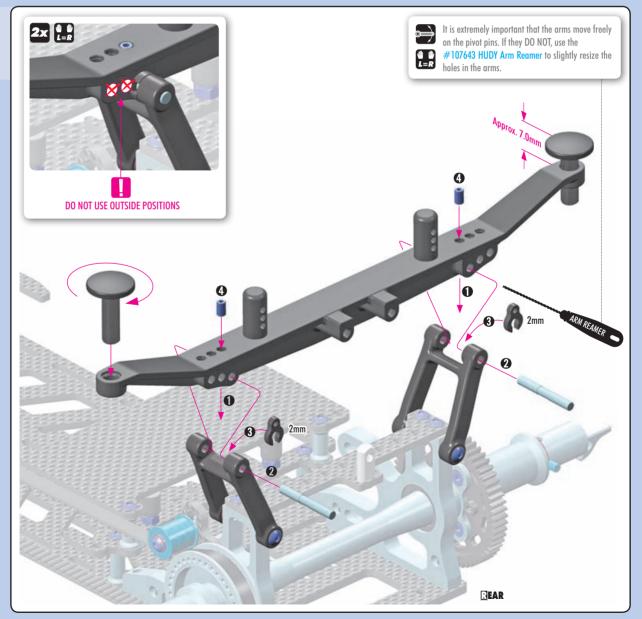






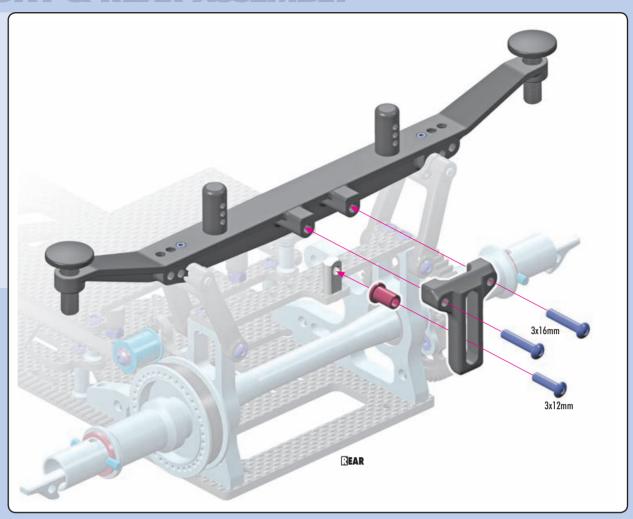




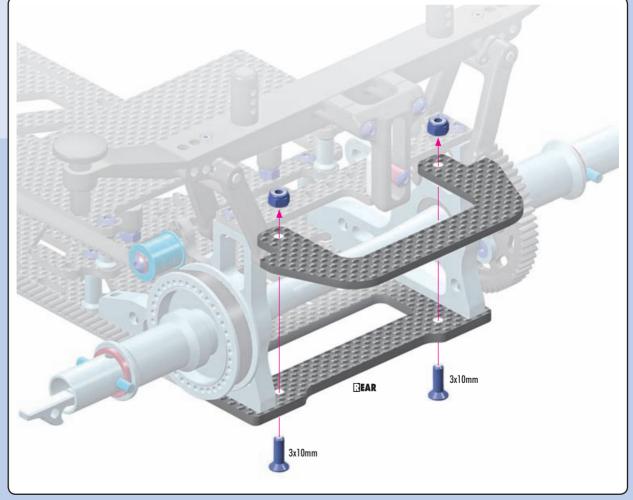






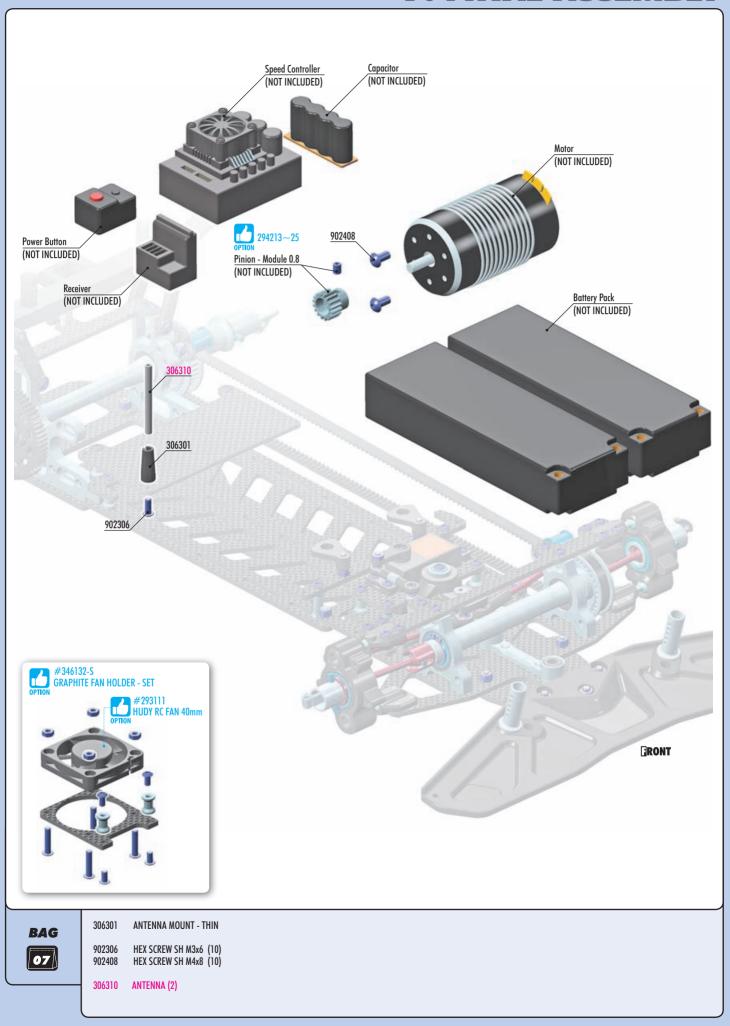






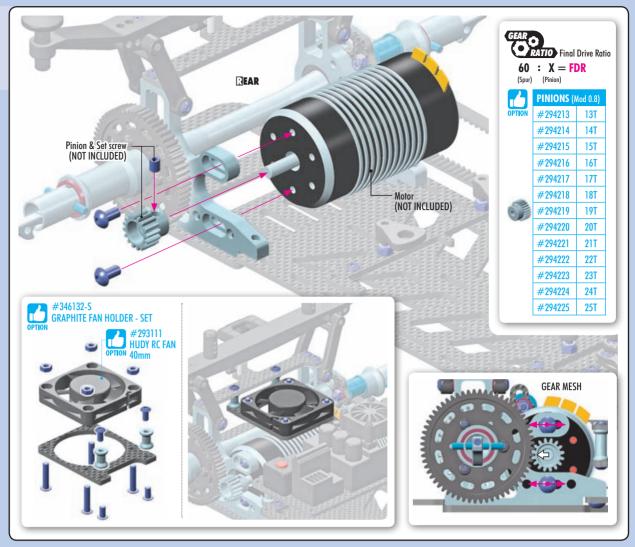


## 7. FINAL ASSEMBLY

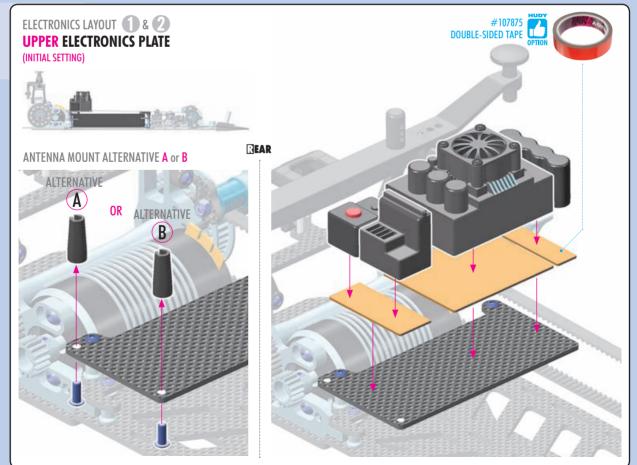


### 7. FINAL ASSEMBLY



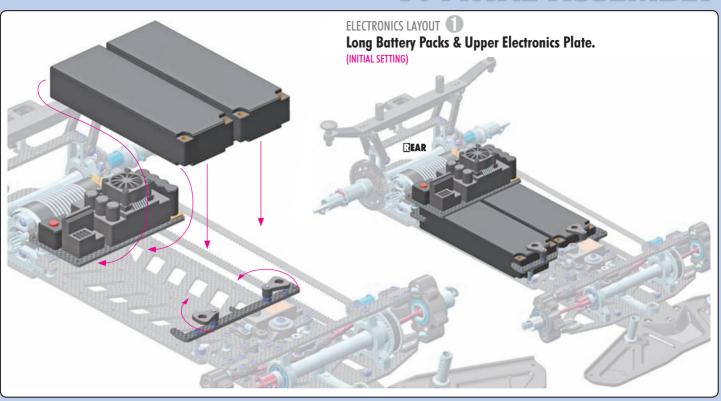


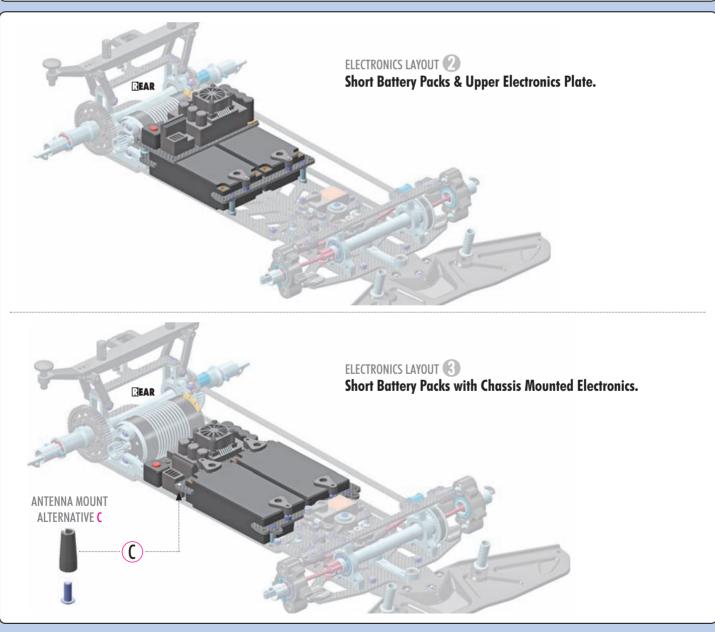






## 7. FINAL ASSEMBLY





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