



BEFORE YOU START

The T2'009 is a high-competition, high-quality, 1/10-scale touring 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 T2'009, <u>YOU MUST</u> read through all of the operating instructions and instruction manual and fully understand them to get

the maximum enjoyment and prevent unnecessary damage. Read carefully and fully understand the instructions before beginning assembly.

Make sure you review this entire manual, the included set-up book, and examine all details carefully. If for some reason you decide The T2'009 is not what you wanted or expected, <u>do not continue any further</u>. Your hobby dealer cannot accept your T2'009 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 notice.

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 info@teamxray.com. Also, please visit our Web site at www.teamxray.com 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:

XRAY Europe

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www.teamxray.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 away.
- 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 residential districts and par
 - 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.



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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 R/C 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 short-circuit
 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.

OUALITY 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.



CONTENTS

	WARNINGS	2-3	4. STEERING	14-15
	TOOLS AND ACCESSORIES	4	5. FRONT & REAR TRANSMISSION	16-21
0.	KIT	5	6. SHOCK ABSORBERS	22-24
1.	BALL DIFFERENTIAL & FRONT SOLID AXLE	6-7	7. FRONT & REAR ASSEMBLY	25-27
2.	FRONT & REAR SUSPENSION	8-10	8. FINAL ASSEMBLY	28-30
3.	CENTRAL TRANSMISSION	11-13		

SYMBOLS USED













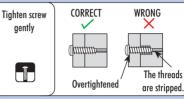














TOOLS REQUIRED













EQUIPMENT INCLUDED





Receiver



EQUIPMENT REQUIRED



190mm Bodyshell



















COLOR INDICATIONS

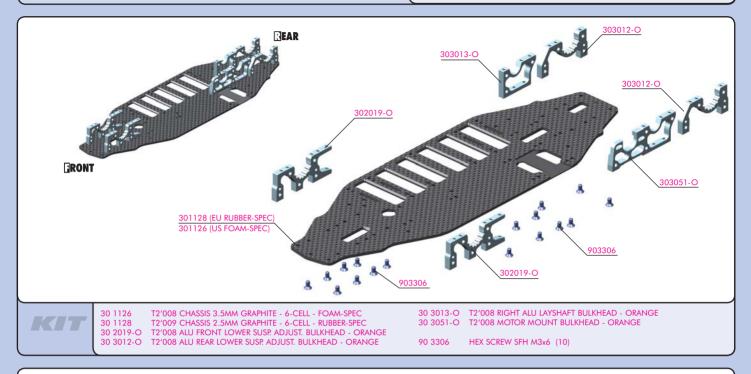
At the beginning of each section is an exploded view of the parts to be assembled. There is also a list of all the parts and part numbers that are related to the assembly of that section.

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:

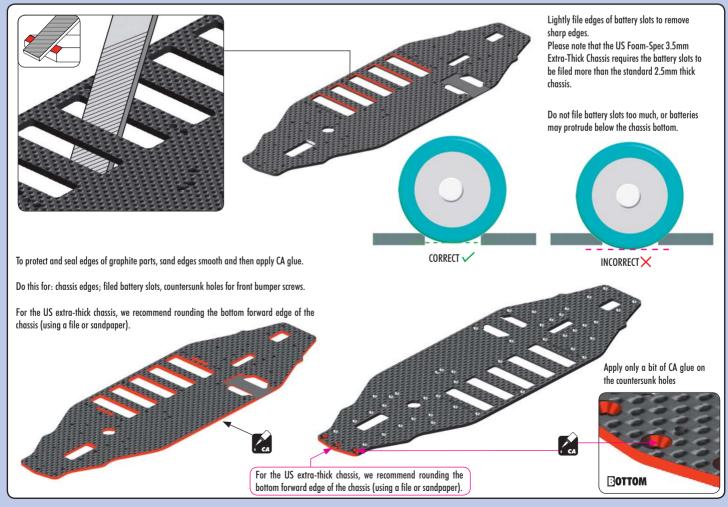
STYLE A - indicates parts that are included in the bag marked for the section.

STYLE B - indicates parts that were set aside in Section 0.

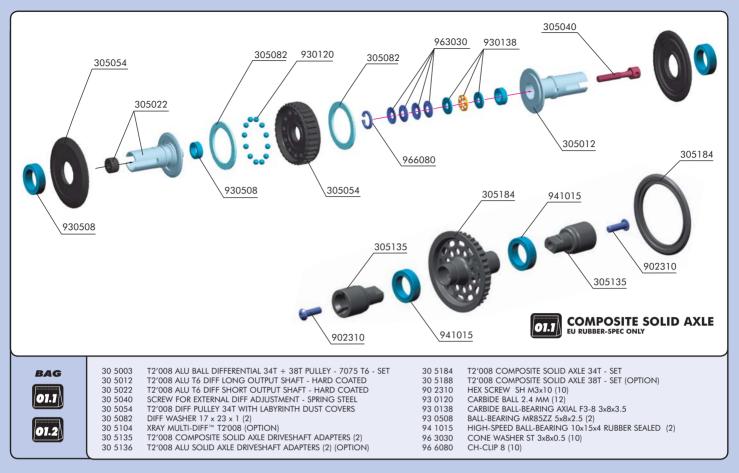
STYLE C - indicates parts that are already assembled from previous steps.

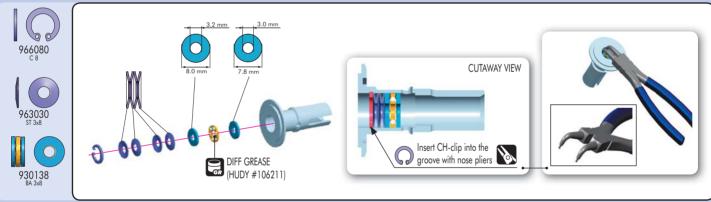


The XRAY T2'009 comes partially pre-assembled. Before starting assembly, disassemble the chassis parts, noting the position and orientation of the parts, particularly the bulkheads. Keep the parts, including the screw hardware, close at hand. In the assembly steps that follow, each section begins with a parts list. Parts indicated with STYLE B are from the previously disassembled chassis parts in section 0.



1. ALU BALL DIFF. & FRONT SOLID AXLE

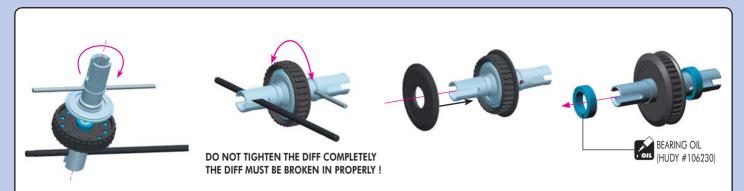






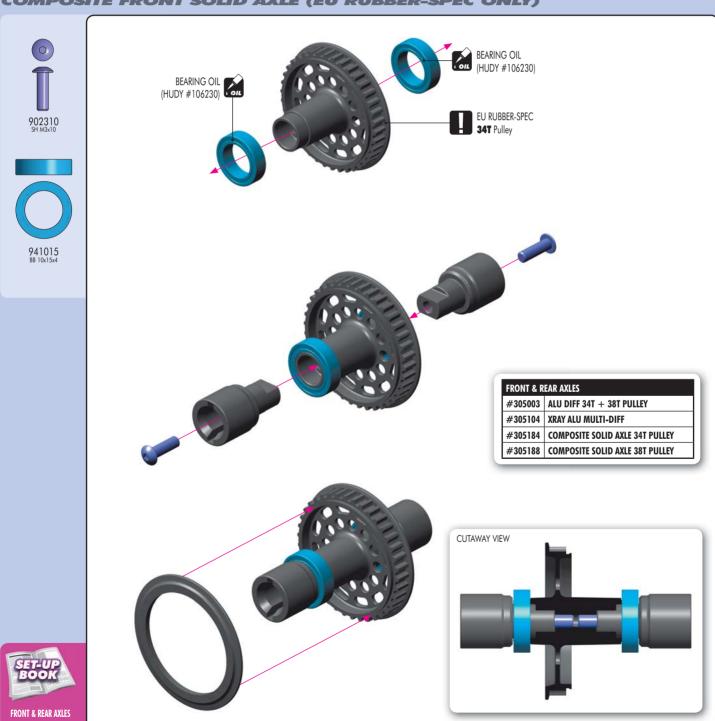


ALU BALL DIFF. & FRONT SOLID AXLE

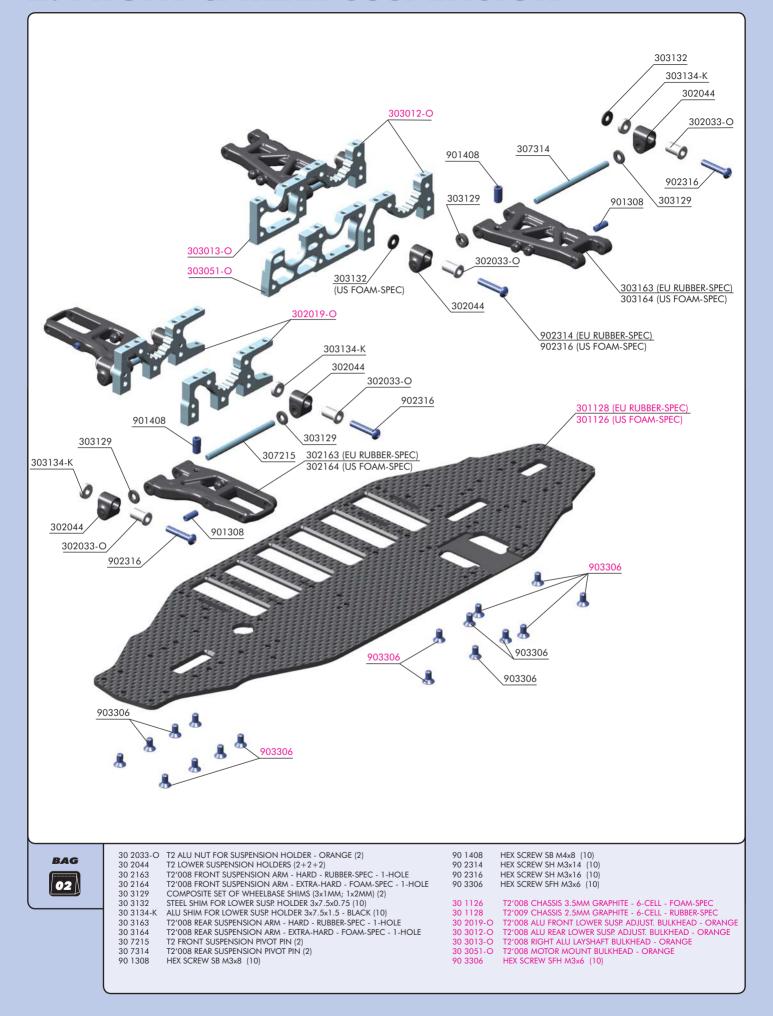


IMPORTANT: When you build the differential, do not tighten it fully initially; the differential needs to be broken in properly. When you build the diff tighten it very gently. When you put the diff in the car and complete the assembly, run the car for a few minutes, tighten the diff a little bit, and then recheck the diff. Repeat this process several times until you have the diff tightened to the point you want it. Final adjustments should ALWAYS be made with the diff in the car and on the track.

COMPOSITE FRONT SOLID AXLE (EU RUBBER-SPEC ONLY)

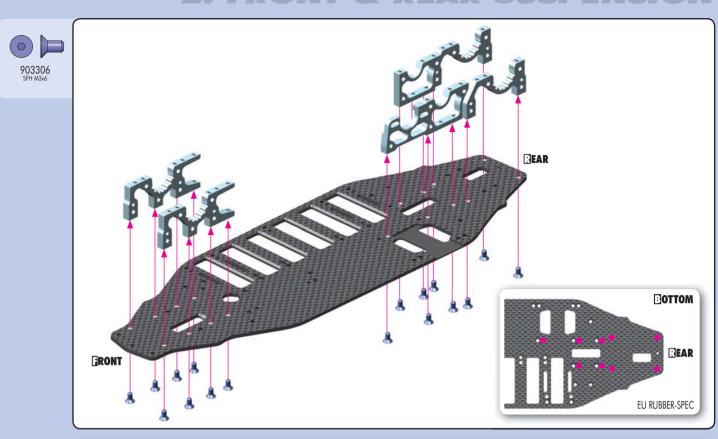


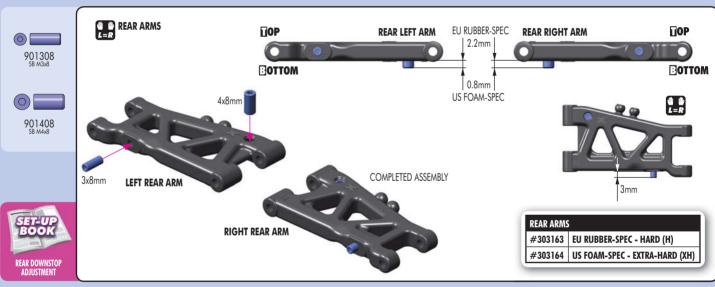
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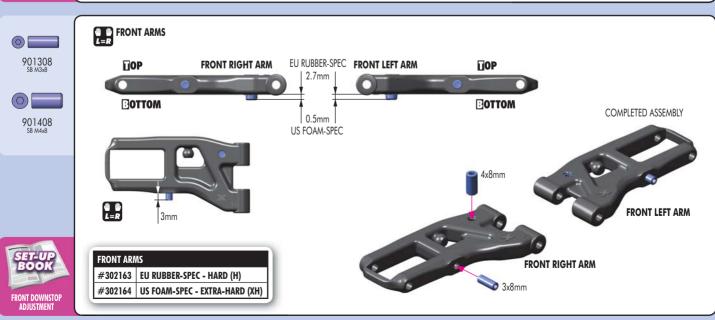




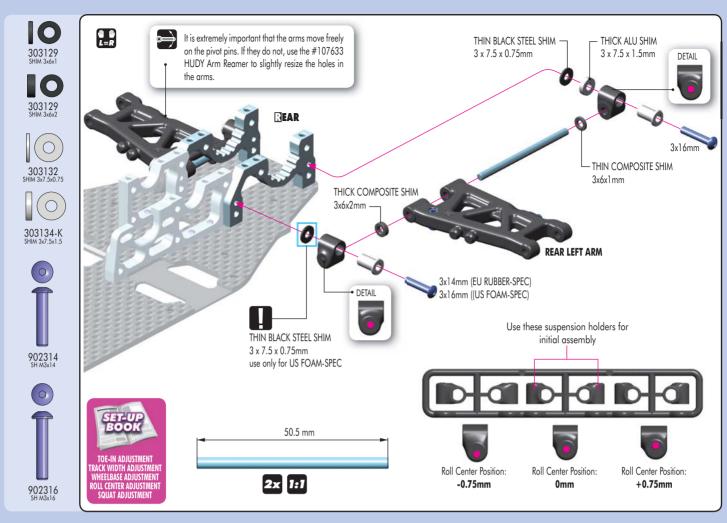
2. FRONT & REAR SUSPENSION

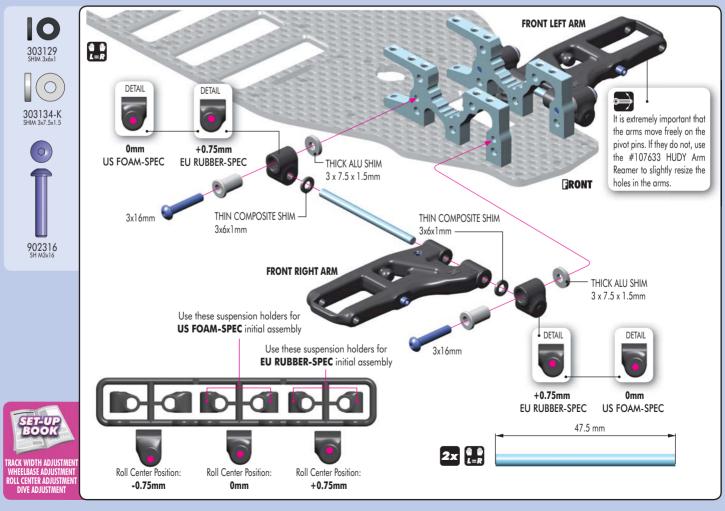




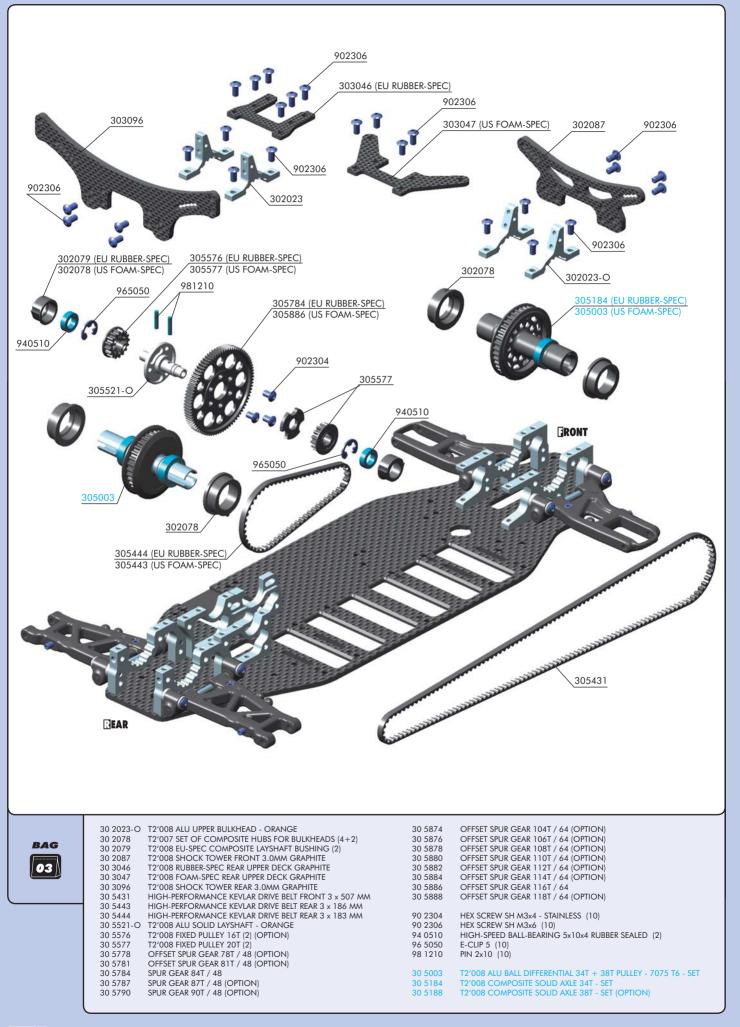


2. FRONT & REAR SUSPENSION

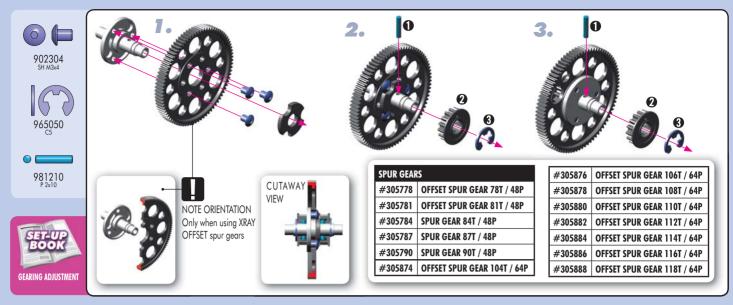


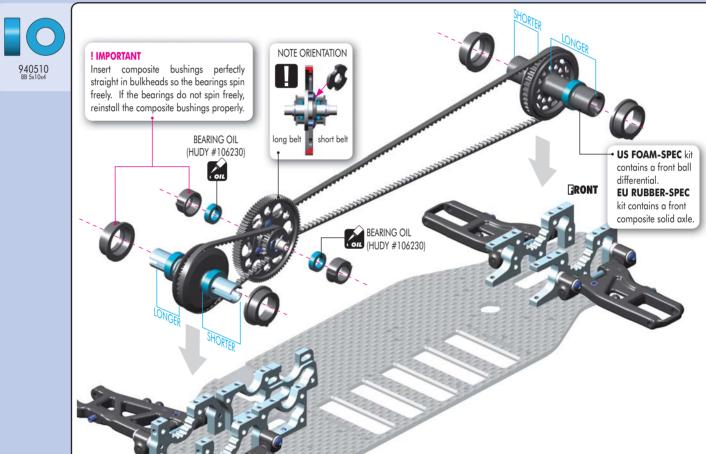


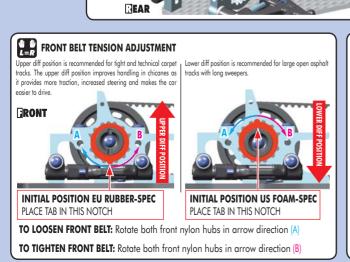
3. CENTRAL TRANSMISSION

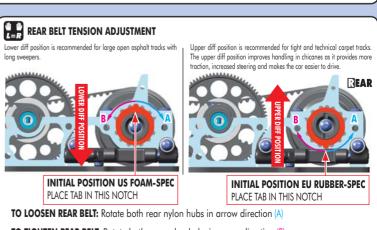


3. CENTRAL TRANSMISSION





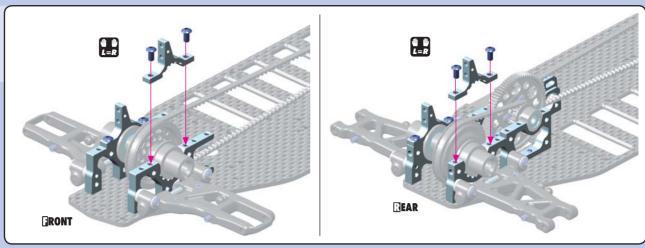




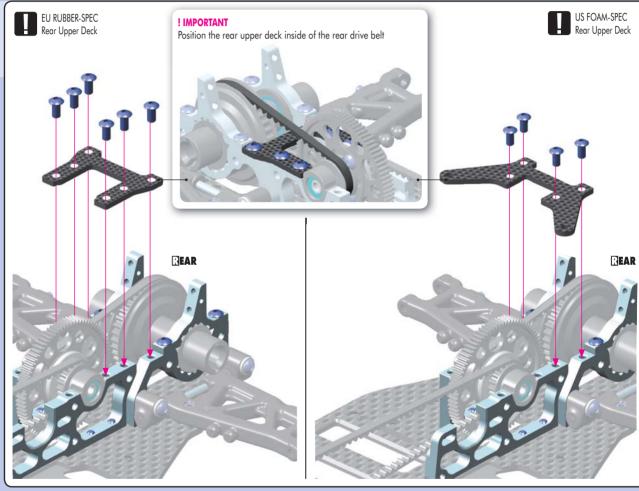
TO TIGHTEN REAR BELT: Rotate both rear nylon hubs in arrow direction (B)

3. CENTRAL TRANSMISSION

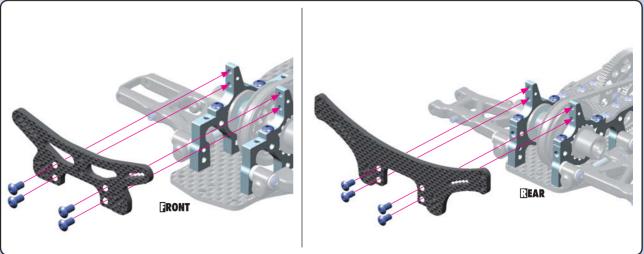




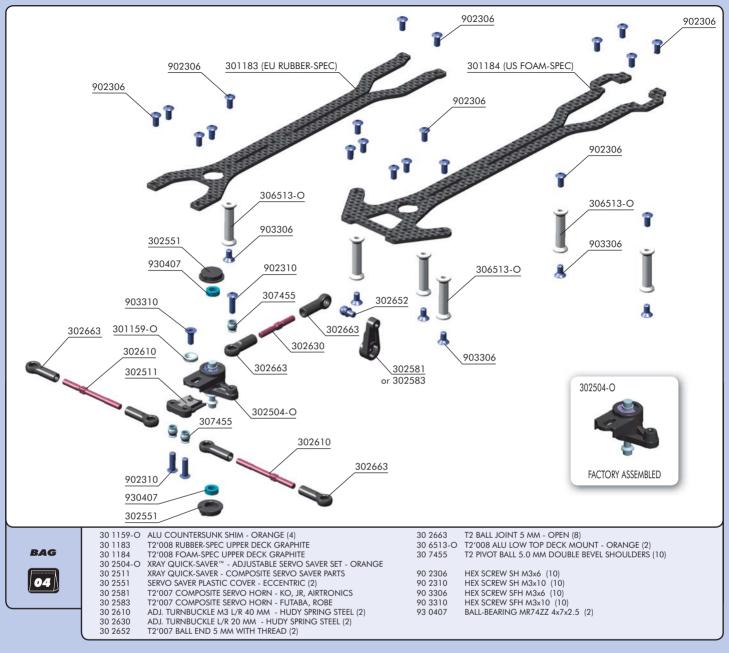


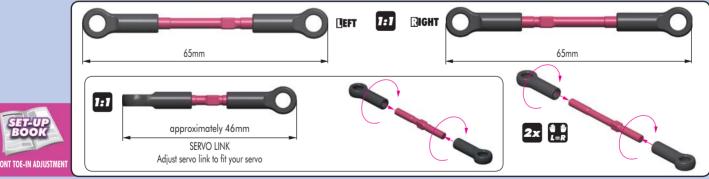


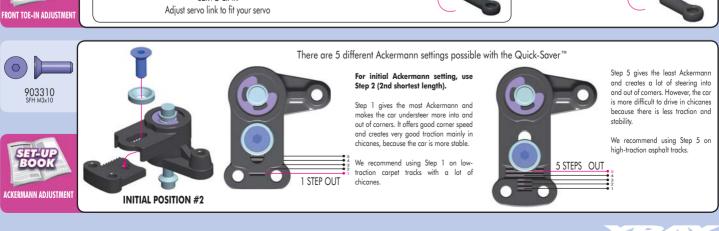




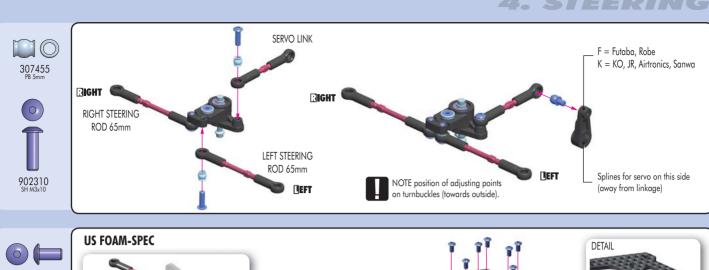
4. STEERING

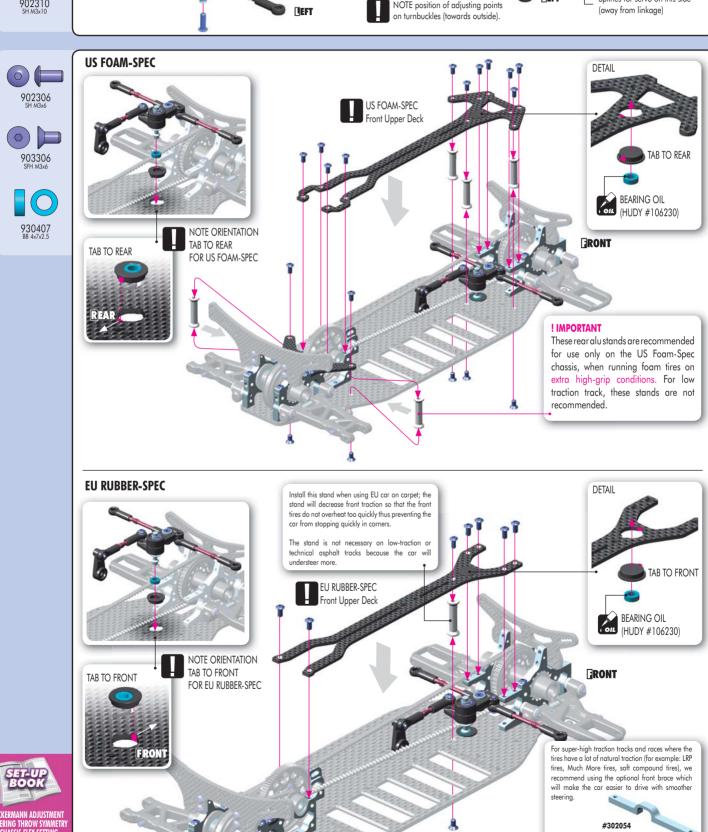




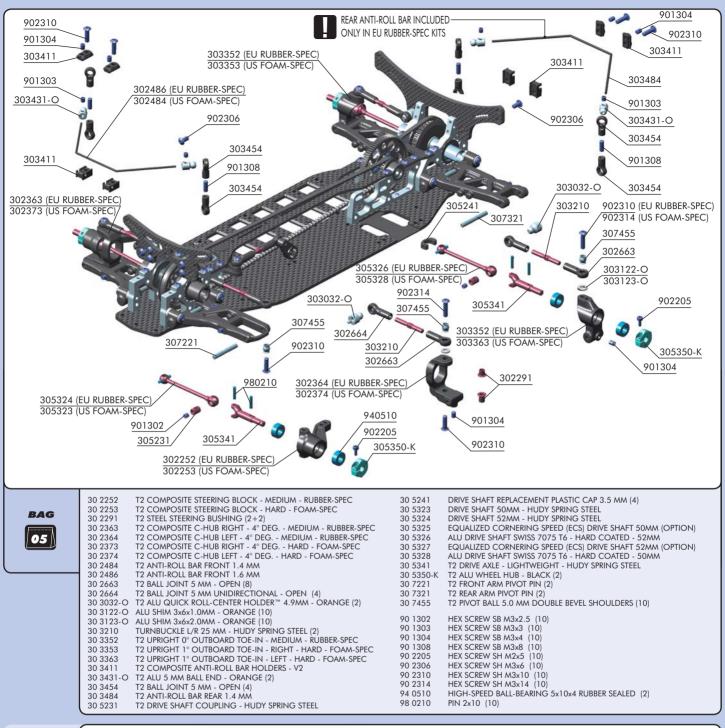


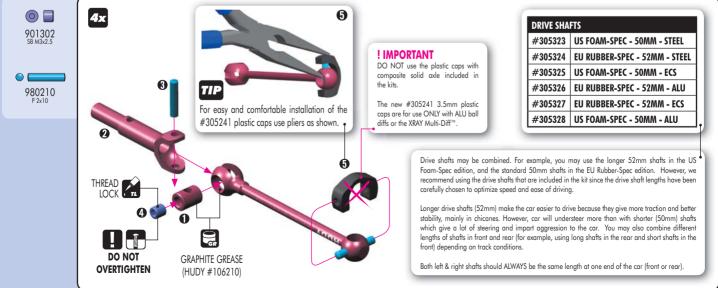
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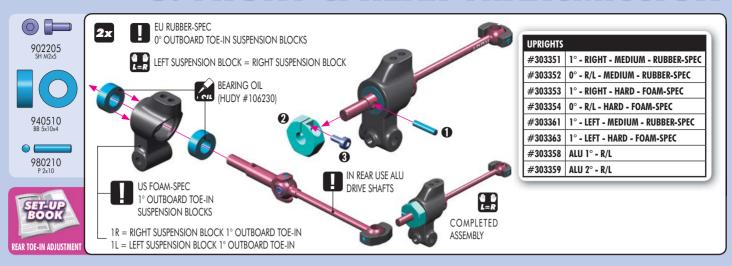


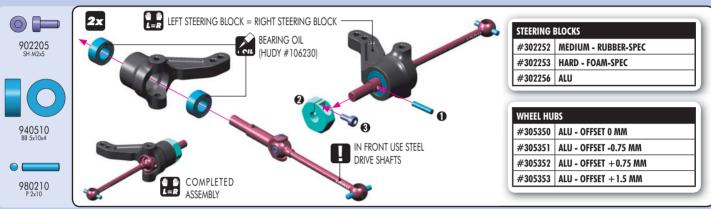


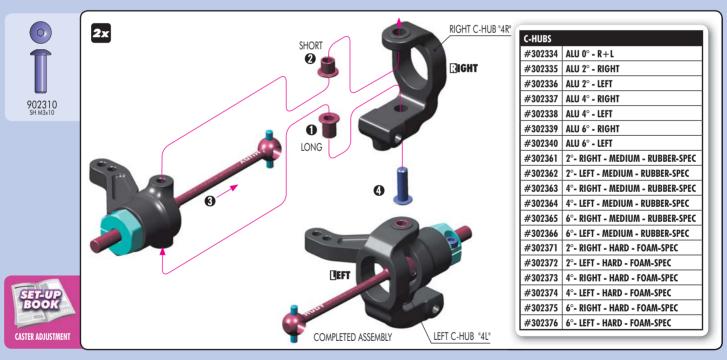


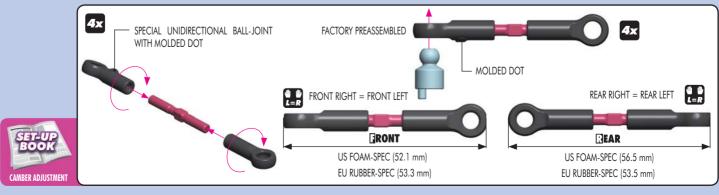


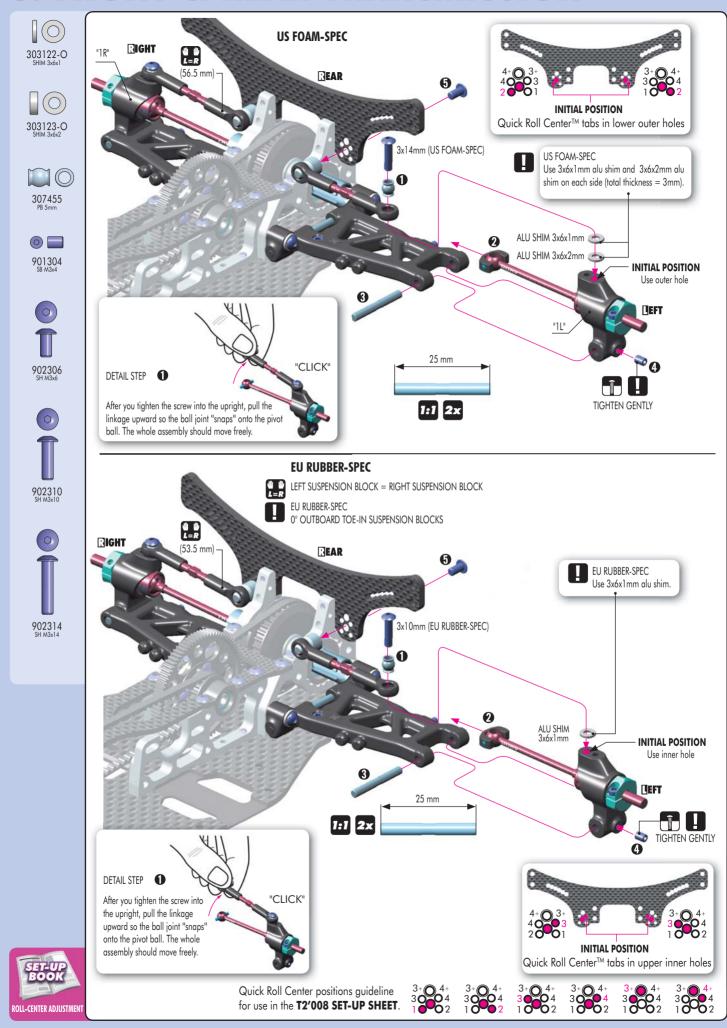


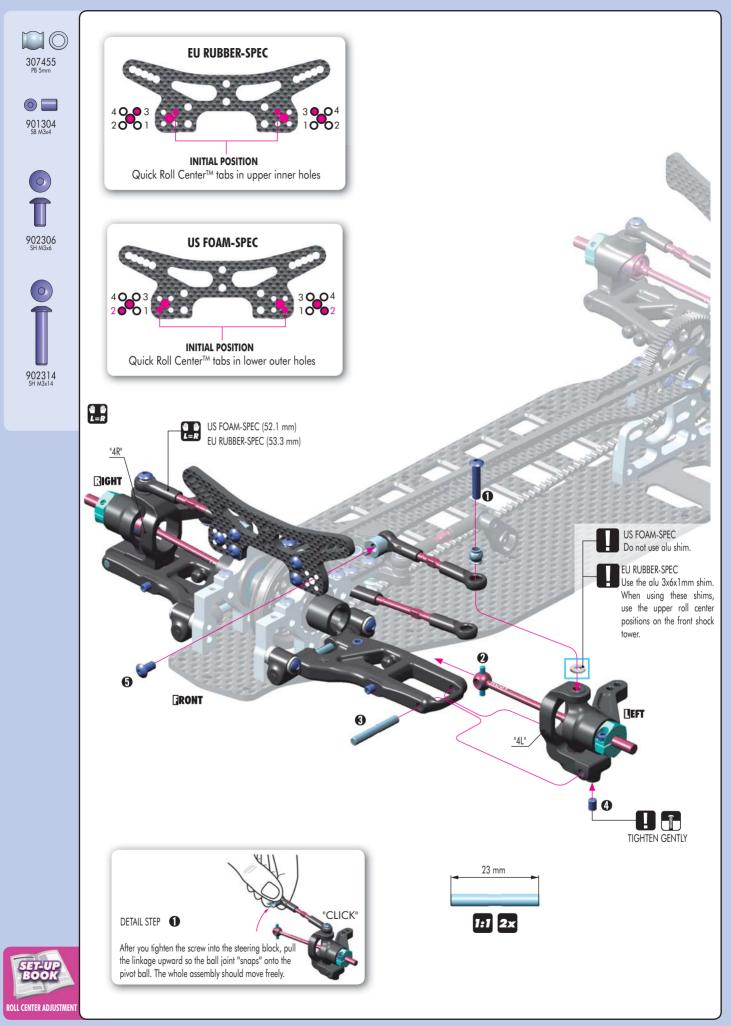


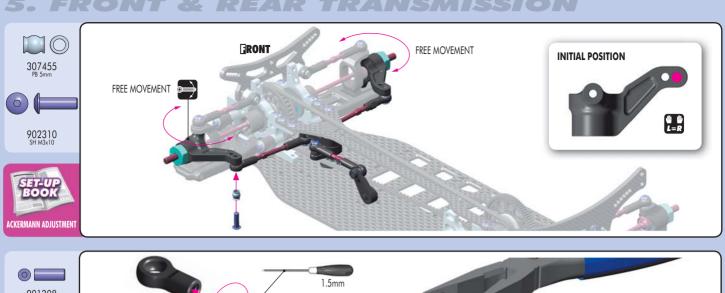


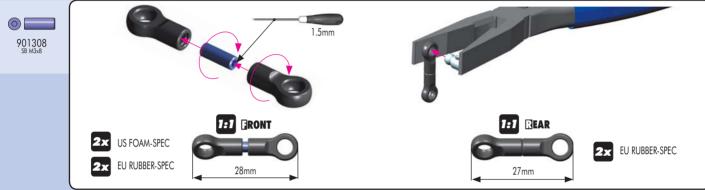


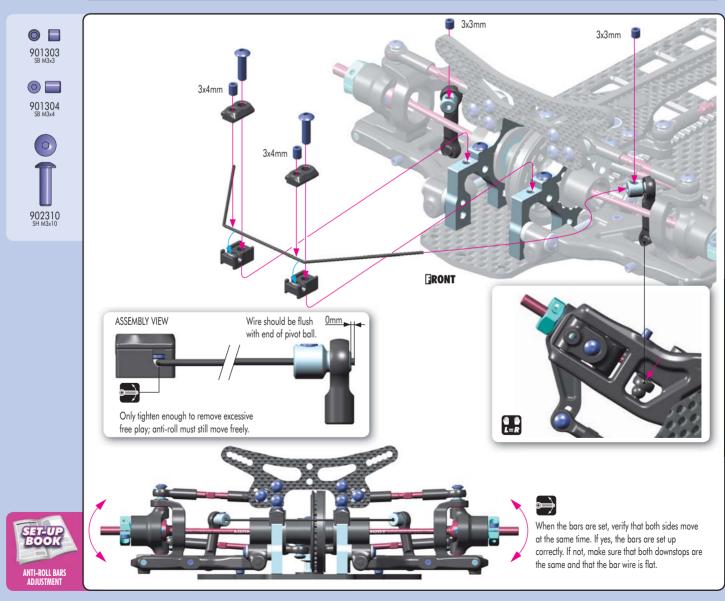




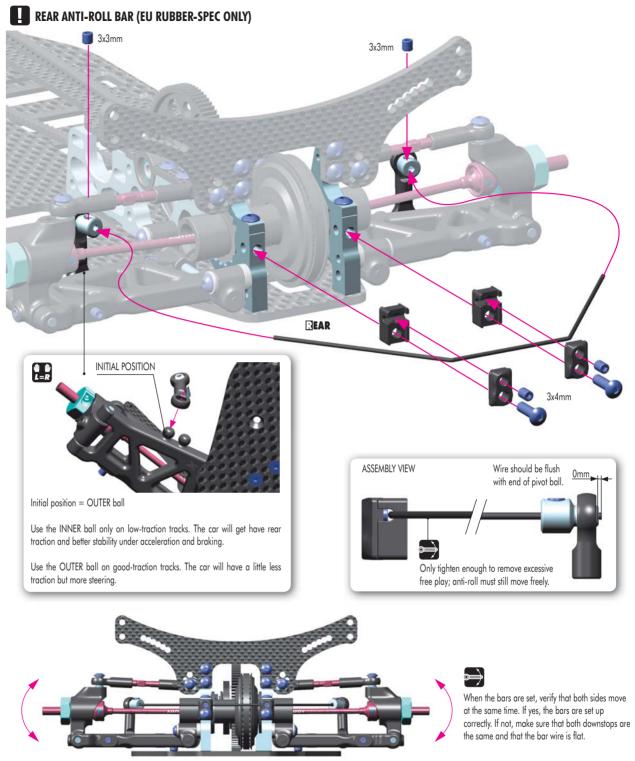




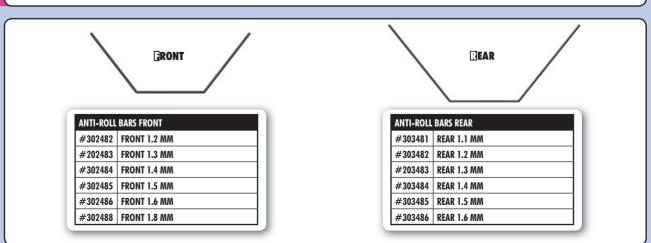




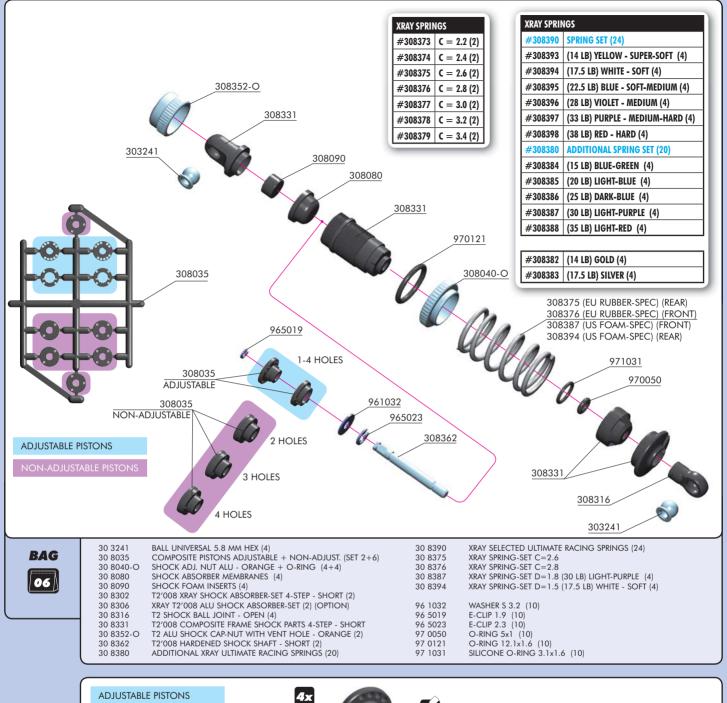








6. SHOCK ABSORBERS











6. SHOCK ABSORBERS





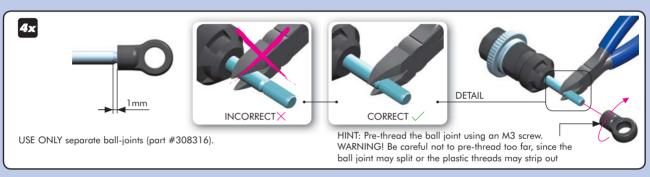


Be careful not to cross-thread the collar on the shock body.







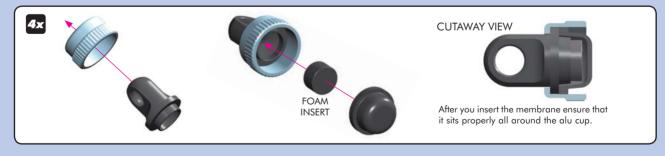




SHOCK FILLING

- Fully extend the piston rod so the piston is at the bottom of the shock body.
- Mold the shock upright and slightly overfill the shock body with shock oil.
- Et the oil settle and allow air bubbles to rise to the top. Slowly move the piston up and down until no more air bubbles appear. Add shock oil as necessary.
- Pull the piston rod most of the way out of the shock body. Let the shock rest for 5 minutes to allow the air bubbles to escape.









4x

When installing the shock cap assembly on the shock body, some oil will leak out... this is normal.

Fully tighten the cap and clean off any excess oil

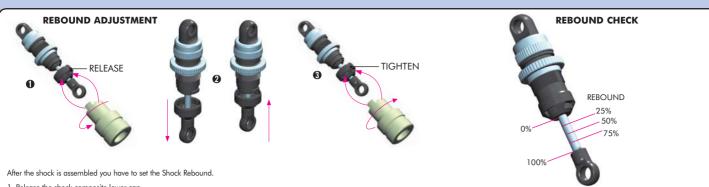
After the shock is assembled, the shock rod will push itself out of the shock body fairly quickly.

Follow the next procedure to adjust the rebound.

SHOCK OIL	S	#359245	450cSt
#359210	100cSt (XRAY 20W)	#359250	500cSt
#359215	150cSt	#359260	600cSt (XRAY 35W)
#359220	200cSt (XRAY 25W)	#359270	700cSt
#359225	250cSt	#359280	800cSt
#359230	300cSt	#359290	900cSt
#359235	350cSt (XRAY 30W)	#359301	1000cSt (XRAY 40W)
#359240	400cSt	#359302	2000cSt (XRAY 50W)



6. SHOCK ABSORBERS



- 1. Release the shock composite lower cap.
- 2. VERY SLOWLY do the following: Fully pull out the shock rod, push it back in fully, and then fully pull it out once more. Repeat this procedure the following number of times to achieve the desired Shock
- 10 times approximately 75% rebound (high rebound suggested for very low traction track)
- 15 times approximately 50% rebound (medium rebound suggested for standard track) 20 times approximately 25% rebound (low rebound suggested for very high traction track
- During the Rebound Adjustment procedure shock oil will leak out of the shock body through the O-ring

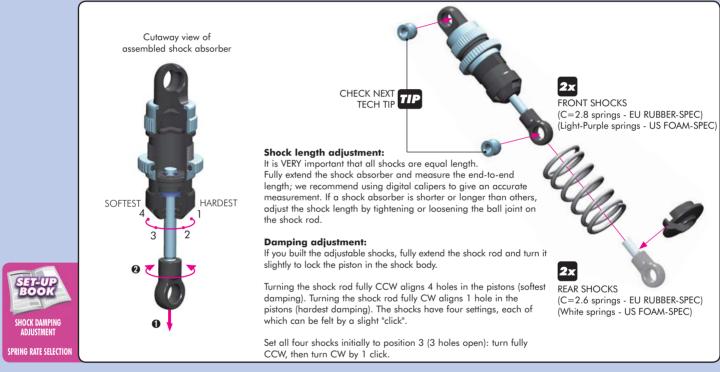
on the shock rod... this is normal. During the Rebound Adjustment procedure DO NOT open the upp shock cap.

- 3. After you have set the Rebound Adjustment, re-install the shock lower composite cap.
- 4. Check the Shock Rebound setting by pushing the shock rod fully into the shock body, releasing it, and observing how far the shock rod extends by itself:

 * 25% out of the shock body (low rebound)
- * 50% out of the shock body (medium rebound) * 75% out of the shock body (high rebound).

If the shock rod rebounds too much, return to Step 1 and repeat the procedure

If the shock rod does not rebound enough, you will have to refill the shock with shock oil, and then repeat the bleeding and Shock Rebound procedures.



TECH TIP

Follow this tech tip to properly install pivot balls into the top pivot and bottom ball joint.

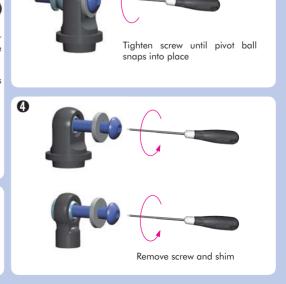
Parts Needed:

- M3 x 16 SH screw
- M3 shim

Note that the composite parts have two sides, noticeable around the pivot ball hole: one side has a shiny finish, the other side has a regular finish.

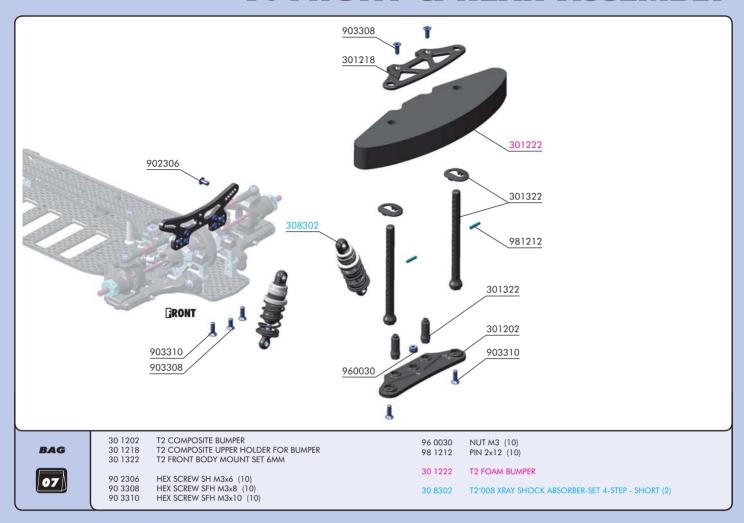


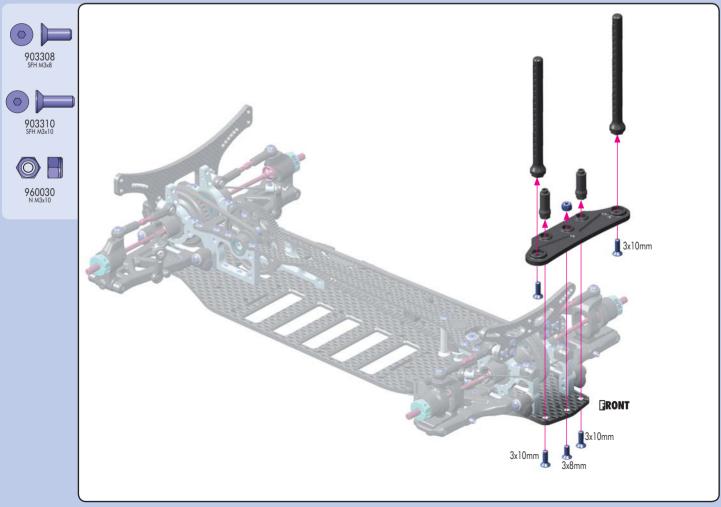






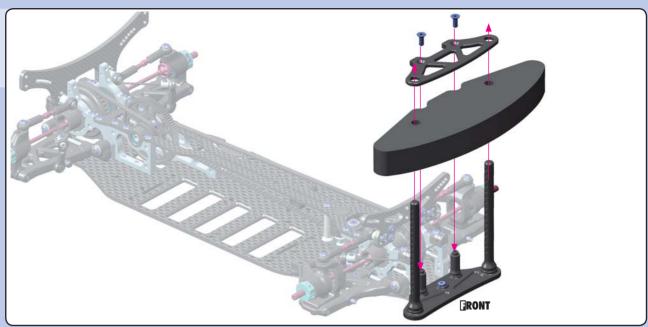
7. FRONT & REAR ASSEMBLY



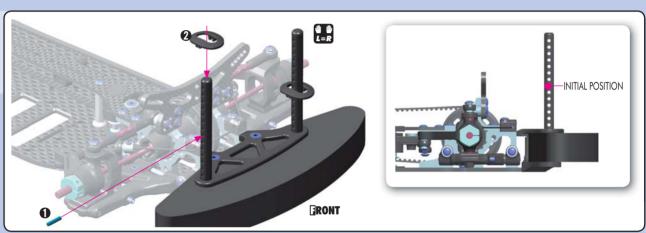


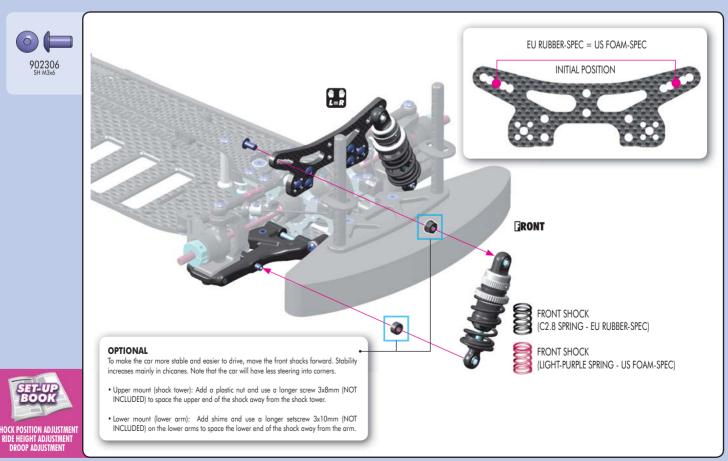
7. FRONT & REAR ASSEMBLY



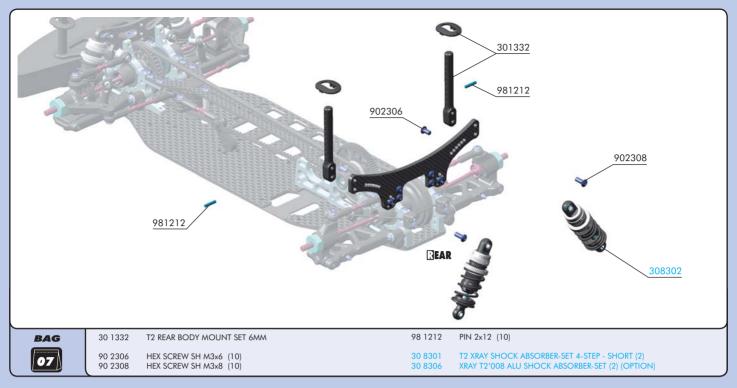




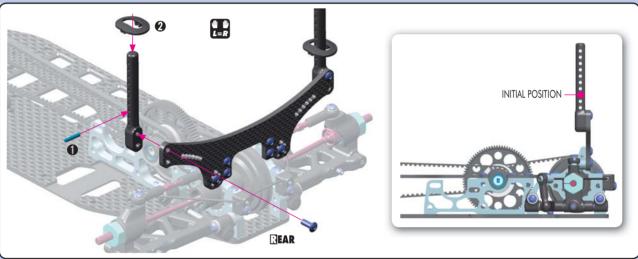


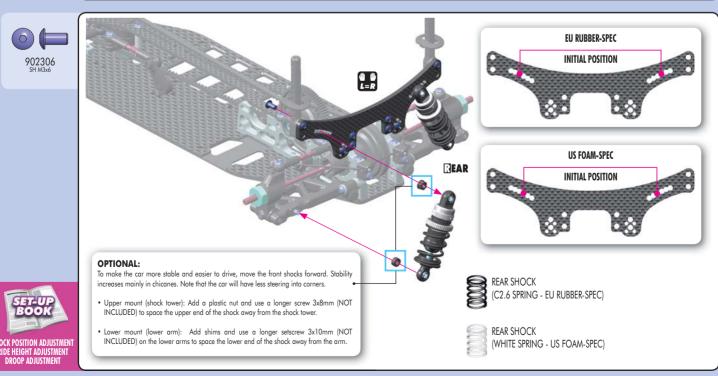


7. FRONT & REAR ASSEMBLY

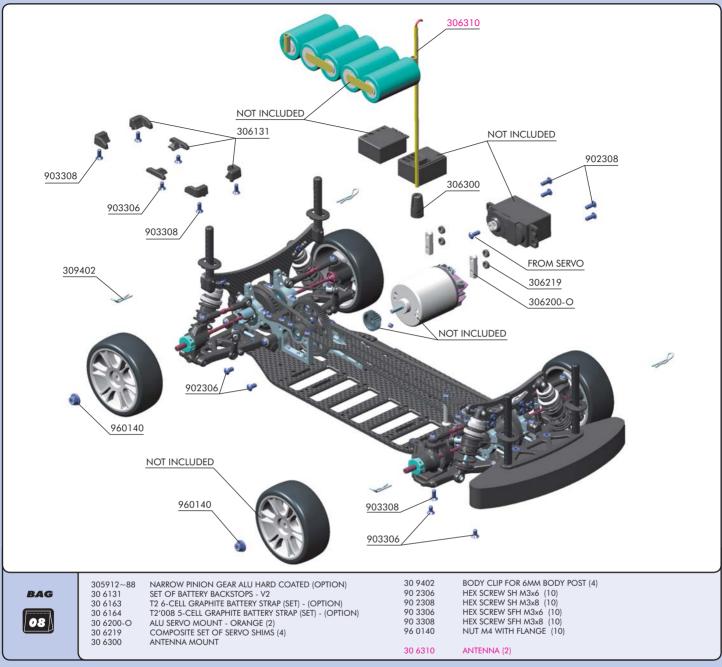


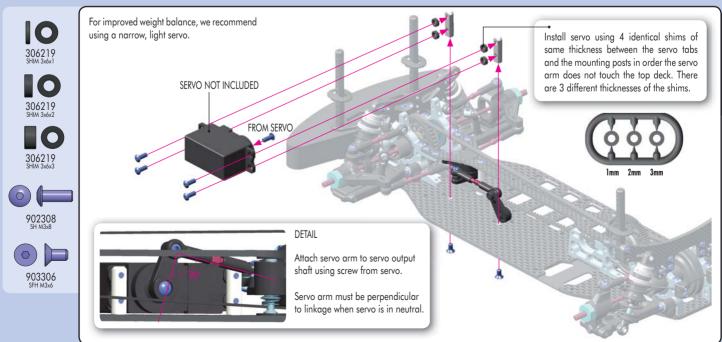


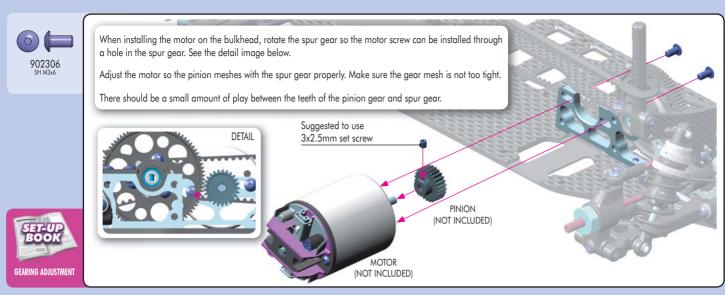


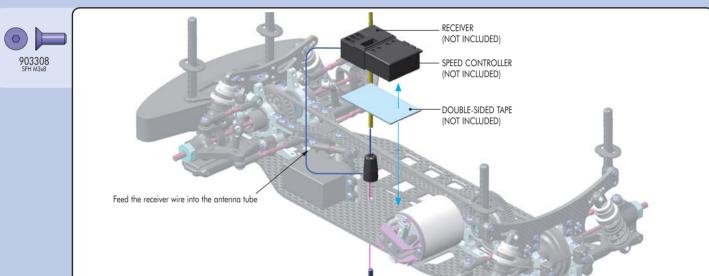


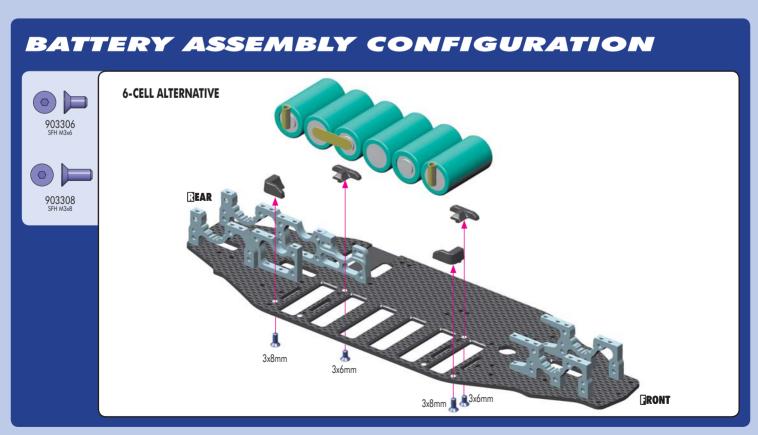
8. FINAL ASSEMBLY



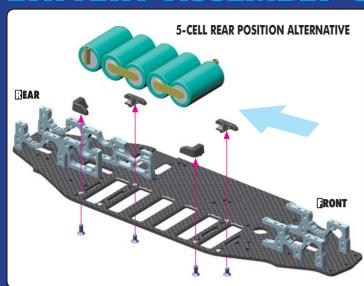


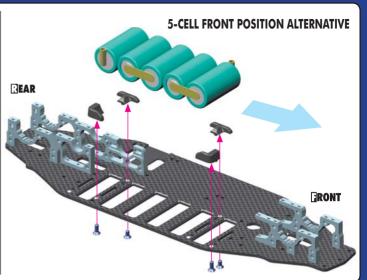






BATTERY ASSEMBLY CONFIGURATION







WARNING!

Follow the adhesive manufacturer's instructions for proper use and safety. Wear proper eye and hand protection.



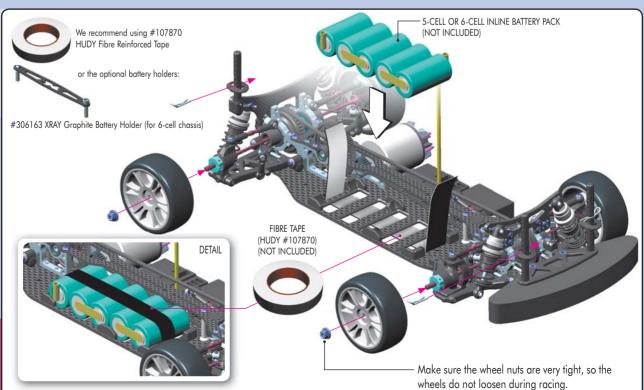


US Foam-Spec Notice:

Some foam wheels may be slightly wider and may touch the front steering blocks. To avoid this, we recommend grinding the inside edge of the wheel, using a tire truer and a file. Make sure that both front tires/wheels end up being the same width, and that there are no rough edges.

Also, make sure that the front wheels and tires do not touch the steering blocks when the steering is turned, and that the wheels and tires do not touch the shocks.







SET-UP SHEET XRAY TZANIS RACE REAR SQUAT ROLL-CENTER **TRACK** SHIM DIVE ROLL-CENTER NAME +0.75 +0.75 +0.75 +0.75 COUNTRY 0.00 0.00 0.00 0.00 CONTACT - 0.75 - 0.75 - 0.75 - 0.75 DATE °F or °C WHEELBASE/n RACE LENGTH QUALIFYING POSITION FINAL POSITION BEST LAPTIME / sec 0 1 1 0 RIDE HEIGHT/n RIDE HEIGHT/mm ASPHALT TRACK CONDITION CARPET C-HUB SHIM SHIM UPPER SHOCK POSITION REAR HUB / mm м TECHNICAL MIXED 7 FAST Μ Н LOW MEDIUM HIGH TRACTION Н ALU 🗌 FRONT ALU STEERING BLOCK LONG TRANSMISSION SHORT SHORT $\overline{\mathbb{C}}$ OFFSET QUICK ROLL FRONT PULLEY REAR PULLEY CENTER POSITION STANDARD Н ALU DIFF. OFFSET LOOSE MEDIUM TIGHT MEDIUM STANDARD 4 3 2 1 0 NEASURE UNDER ARM HUDY 0‡ ONE WAY DIFFERENTIAL YES DOWNSTOP/mm SOLID ONE WAY DIFF. YES MIDDLE ONE WAY PULLEY REAR SOLID AXLE YES FIXED ONE-WAY TOE / degr. FINAL TOE IN OUTBOARD TOE PINION / T SPLIR GEAR / T OUT INBOARD TOE FINAL DRIVE RATIO ROLLOUT IN =3° FRONT ANTI ROLL-BAR SHIM UNDER SHOCK PLASTIC SHOCKS ALU ALU PLASTIC 1.9 =2.5SHIM UNDER SHOCK (**@** SHIM SAVER XRAY SPRINGS SHIM OLITER 1.5 =2° (D=1.4)#308393 Super Soft YELLOW 14 lb ACKERMANN SHIM FRONT SHIM FRONT/REAR POSITION O #308384 BLUE-GREEN (D=1.5)15 lb SHIM =1.59 1.5 mm #308394 (D=1.5)17.5 lb WHITE 0.75 =1° #308385 (D=1.6)20 lb LIGHT-BLUE NO shim INNER (D=1.6)22.5 lb SHIM REAR #308395 Soft Medium BLUE ACKERMANN POSITION 0.4 $=0.5^{\circ}$ OTHER (D=1.7)25 lb #308386 SHIM DARK-BILLE (D=1.7)28 lb $=0^{\circ}$ #308396 -VIOI FT Medium INROARD SHIMS ARE USED IN ADDITION TO TRACK-WIDTH SHIM #308387 (D=1.8)30 lb LIGHT-PURPLE (D=1.8)33 lb #308397 PURPLE Medium Hard **FRONT** CAMBER / degr. **REAR** (D=1.9)35 lb #308388 LIGHT-RED #308398 Hard RED (D=1.9)38 lb (D) Ø6 #308373 C 2.2 #308374 C 2.4 #308375 C 2.6 C 2.8 #308376 FRONT ARM **REAR ARM** #308377 C.3.0HARD (H) HARD (H) #308378 C 3.2 EXTRA-HARD (XH) EXTRA-HARD (XH) C34#308379 OTHER SPRING LENGTH / mi PRELOAD / mm BALANCE / g BALANCE / g TOP DECK MULTI-FLEX SETTING REBOUND % US TOP DECK FOAM INSERTS NO NO YES YES O-RING ON SHAFT ECCENTER/mn ECCENTER/mm STANDARD STANDARD O OPENED HOLES CLOSED IN PISTON ANTI-ROLL BAR **POSITION POSITION** UP UP TIRES (DOWN DOWN **EU** TOP DECK DIAMETER / mm BALANCE / g BALANCE / g INSERTS ADDITIVE TREATED AREA **CHASSIS MULTI-FLEX SETTING** FRONT REAR CHASSIS 4 Ø WHEELS D ____M ___H ___ HARDNESS M | H 0 0 CENTRAL 0 O (0) MOTOR ARMATURE ALU STAND SPRING 0 0 0 BRUSH COMP. 0 0 4 ESC BATTERIES O 4 BRUSHLESS PROGRAM PUNCH INITIAL BRAKE AUTO BRAKE FRONT ALU STANDS (US) REAR ALU STANDS (US) BODY WING



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