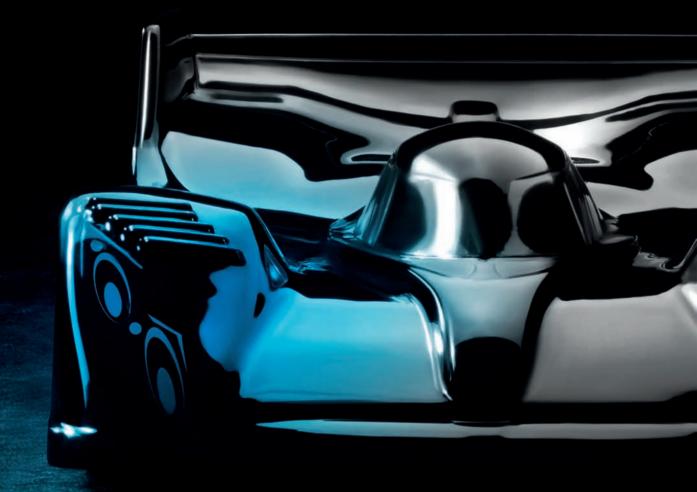
1/12 LUXURY PAN CAR



INSTRUCTION MANUAL
FOR X12'20 EU & US EDITION

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.

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 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:

www.teamxray.com

XRAY Europe

K Vystavisku 6992 91101 Trenčín Slovakia, EUROPE

Phone: 421-32-7401100 Fax: 421-32-7401109 E-mail: info@teamxray.com

LISA

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

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

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 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 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 augrantees 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

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.



SYMBOLS USED





Assemble in the specified order



Assemble left and right sides the same way



Pay attention here



Assemble as many times as specified (here twice)



Cut



Apply CA glue



Apply oil



Apply grease



Ensure smooth non-binding movement



Tighten screw gently



Detail view



Assembly view





TOOLS REQUIRED













EQUIPMENT INCLUDED



HUDY Premium Silicone Oil

700cSt (HUDY #106370 50ml) 3000cSt (HUDY #106430 50ml)



NOT INCLUDED



To ensure that you always have access to the most up-to-date version of the XRAY Set-up Book, XRAY will now be offering only the digital online version at our website at www.teamxray.com. 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. The Set-up Book features the T-bar version of the XII, however the majority of all set-up adjustments and theory are the same. We strongly recommend that you read and understand the Set-up Book before operating your car.

SAMPLE OF OPTIONAL PARTS

#37XXXX OPTION 1
#37XXXX OPTION 2
#37XXXX OPTION 3

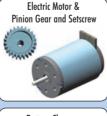
XRAY offers wide range of optional tuning parts which are listed in a table like this. Please refer to the exploded view of each main section to verify which parts are included in the kit; other parts are available as optional parts, and must be purchased separately.

EQUIPMENT REQUIRED





















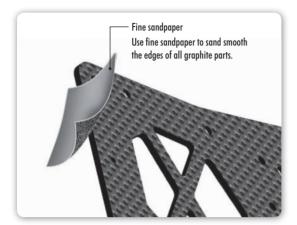


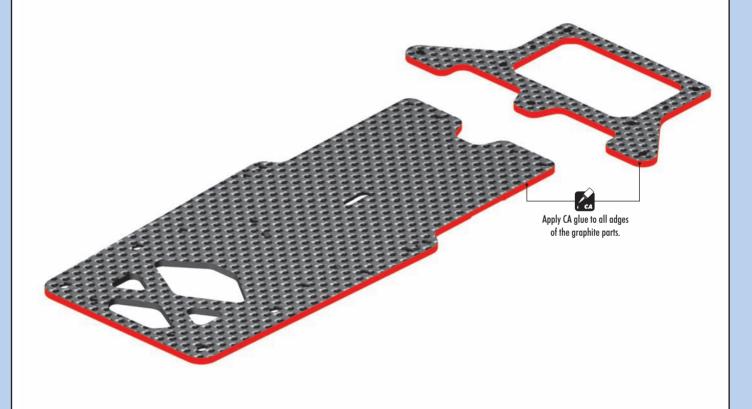


GRAPHITE PART PREPARATION ELLI

PREPARE ALL GRAPHITE PARTS

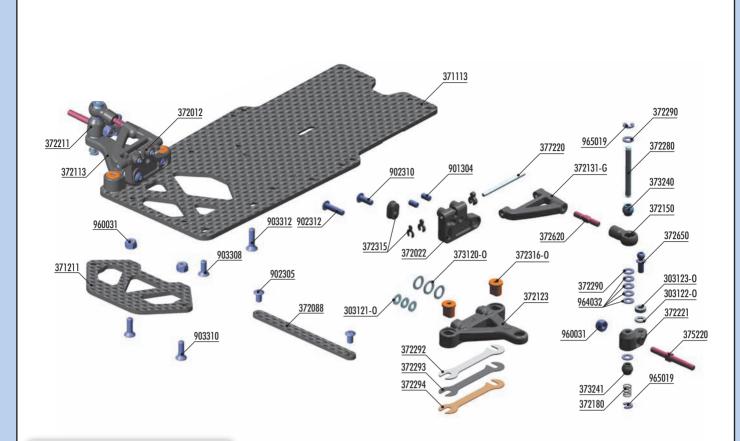
To protect and seal edges of graphite parts, sand edges smooth and then apply CA glue.







1. FRONT SUSPENSION ELLE





FRONT UPPER ARM				
#372130	MEDIUM	OPTION		
#372131	HARD	OPTION		
#372131-G	GRAPHITE	INCLUDED		





#371114 X12'20 ALU CHASSIS



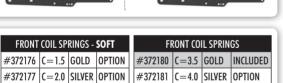
FRONT COIL SPRINGS - **SOFT**

#372177 C=2.0 SILVER OPTION

#372178 C=2.5 BLACK OPTION

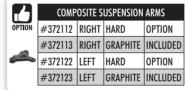
#372179 C=3.0 GREY OPTION





#372182 C=5.0 BLACK OPTION

#372183 C=5.5 GREY OPTION



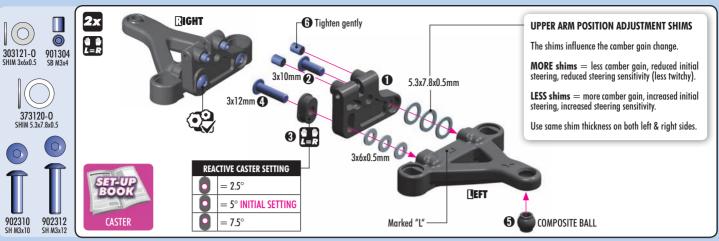


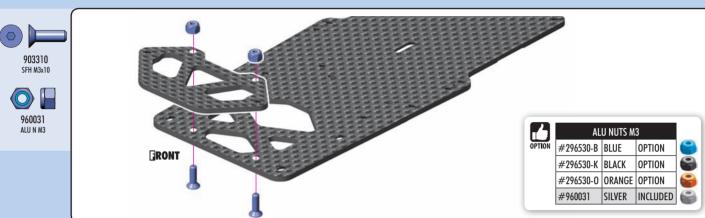
	S			
OPTION	#372010	RIGHT	MEDIUM	OPTION
	#372011	RIGHT	HARD	OPTION
såla	#372012	RIGHT	GRAPHITE	INCLUDED
	#372020	LEFT	MEDIUM	OPTION
	#372021	LEFT	HARD	OPTION
	#372022	LEFT	GRAPHITE	INCLUDED

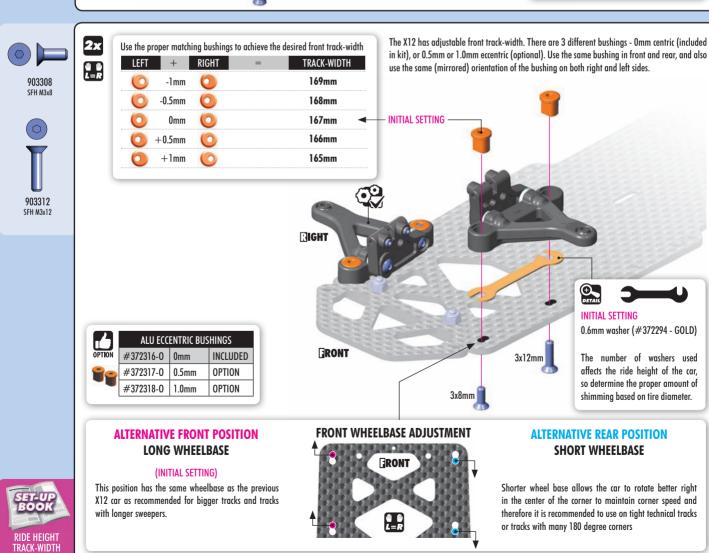


303121-0	ALU SHIM 3x6x0.5MM - ORANGE (10)	372315	COMPOSITE ECCENTRIC BUSHINGS $+$ CASTER CLIPS (2)
303122-0	ALU SHIM 3x6x1.0MM - ORANGE (10)	372316-0	ALU ECCENTRIC BUSHING 0.0MM - ORANGE (2)
303123-0	ALU SHIM 3x6x2.0MM - ORANGE (10)	372620	ADJ. TURNBUCKLE M3x17 MM - HUDY SPRING STEEL™ (2)
371113	X12'20 GRAPHITE CHASSIS 2.5MM	372650	BALL-END 4.2MM - THREADED - HUDY SPRING STEEL™ (2)
371211	GRAPHITE BUMPER LOWER HOLDER 2.5MM	373120-0	ALU SHIM 5.3x7.8x0.5MM - ORANGE (10)
372012	COMPOSITE FRONT UPPER ARM MOUNT - RIGHT - GRAPHITE	373240	PIVOTBALL UNIVERSAL 6.0 MM - HUDY SPRING STEEL™ (2)
372022	COMPOSITE FRONT UPPER ARM MOUNT - LEFT - GRAPHITE	373241	COMPOSITE PIVOTBALL 6.0 MM - V2 (2)
372088	X12'20 FRONT BRACE - GRAPHITE 2.0MM	375220	FRONT WHEEL AXLE (2)
372113	COMPOSITE SUSPENSION ARM FRONT LOWER - RIGHT - GRAPHITE	377220	FRONT UPPER PIVOT PIN 2x31MM (2)
372123	COMPOSITE SUSPENSION ARM FRONT LOWER - LEFT - GRAPHITE		
372131-G	COMPOSITE FRONT UPPER SUSPENSION ARM - GRAPHITE	901304	HEX SCREW SB M3x4 (10)
372150	COMPOSITE FRONT UPPER BALL JOINT (2)	902305	HEX SCREW SH M3x5 (10)
372180	FRONT COIL SPRING 3.6x6x0.5MM; C=3.5 - GOLD (2)	902310	HEX SCREW SH M3x10 (10)
372211	COMPOSITE STEERING BLOCK - RIGHT - HARD - V3	902312	HEX SCREW SH M3x12 (10)
372221	COMPOSITE STEERING BLOCK - LEFT - HARD - V3	903308	HEX SCREW SFH M3x8 (10)
372280	KING PIN (2)	903310	HEX SCREW SFH M3x10 (10)
372290	ALU SHIM 3.2x4.8x0.5 (4)	903312	HEX SCREW SFH M3x12 (10)
372292	STEEL SHIM 0.2MM - SILVER (2)	960031	ALU NUT M3 (10)
372293	STEEL SHIM 0.4MM - BLACK (2)	964032	WASHER S 3.2 x 4.8 x 0.2 (10)
372294	STEEL SHIM 0.6MM - GOLD (2)	965019	E-CLIP 1.9 (10)

1. FRONT SUSPENSION EL

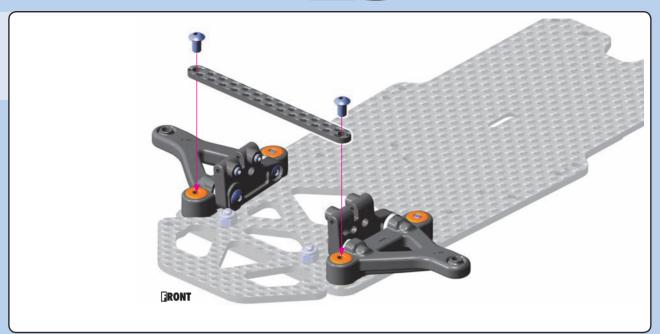


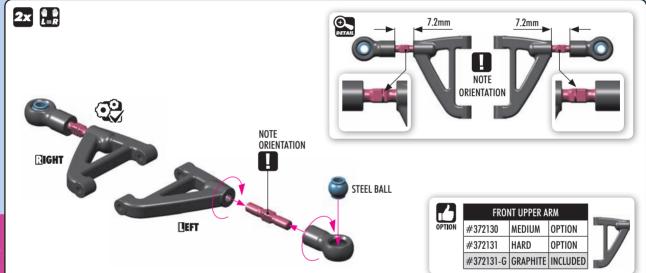




1. FRONT SUSPENSION ELLI

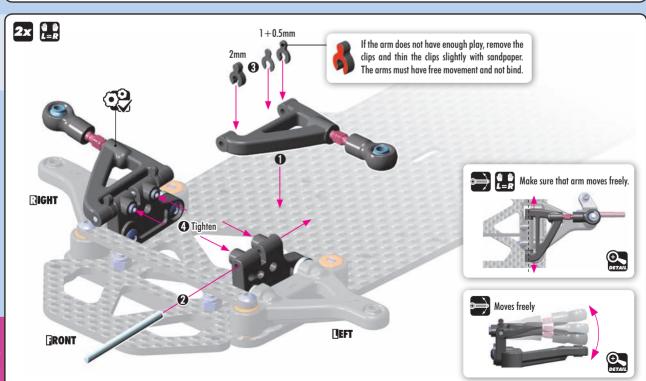






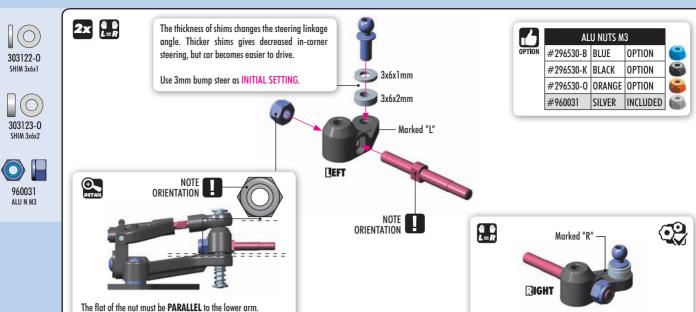


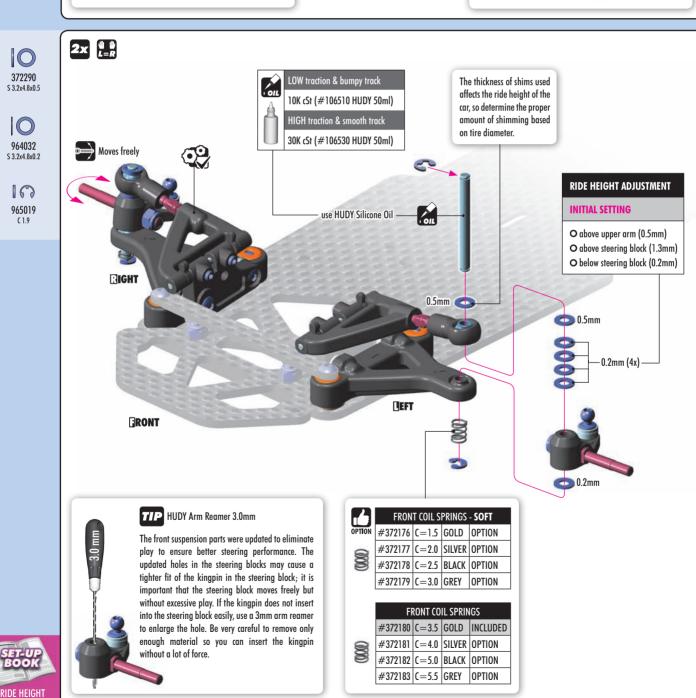
901304 SB M3x4





1. FRONT SUSPENSION



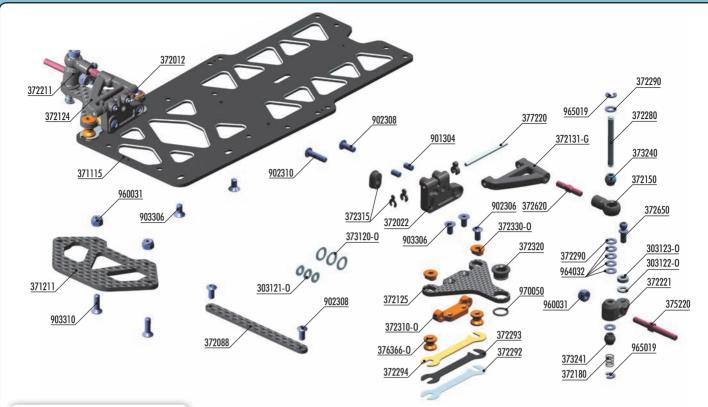


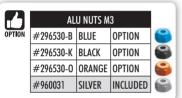


S 3.2x4.8x0.5

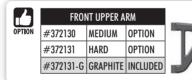
S 3.2x4.8x0.2

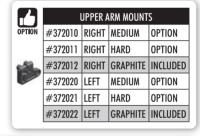
1. FRONT SUSPENSION LECT





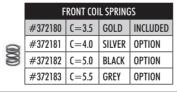
	SHINGS		
OPTION	#372330-0	0mm	INCLUDED
9	#372331-0	0.5mm	OPTION
9	#372332-0	1.0mm	OPTION







	FRONT COIL SPRINGS - SOFT				
ı	#372176	C=1.5	GOLD	OPTION	
	#372177	C=2.0	SILVER	OPTION	
	#372178	C=2.5	BLACK	OPTION	
	#372179	C=3.0	GREY	OPTION	







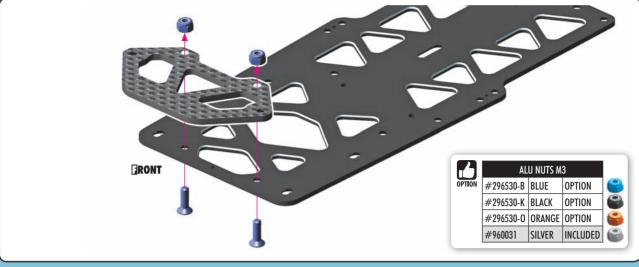


303121-0	ALU SHIM 3x6x0.5MM - ORANGE (10)
303122-0	ALU SHIM 3x6x1.0MM - ORANGE (10)
303123-0	ALU SHIM 3x6x2.0MM - ORANGE (10)
371115	X12'20 ALU FLEX CHASSIS 2.0MM - 7075 T6
371211	GRAPHITE BUMPER LOWER HOLDER 2.5MM
372012	COMPOSITE FRONT UPPER ARM MOUNT - RIGHT - GRAPHITE
372022	COMPOSITE FRONT UPPER ARM MOUNT - LEFT - GRAPHITE
372088	X12'20 FRONT BRACE - GRAPHITE 2.0MM
372124	X12 US GRAPHITE LOWER SUSPENSION ARM - RIGHT
372125	X12 US GRAPHITE LOWER SUSPENSION ARM - LEFT
372131-G	COMPOSITE FRONT UPPER SUSPENSION ARM - GRAPHITE
372150	COMPOSITE FRONT UPPER BALL JOINT (2)
372180	FRONT COIL SPRING $3.6x6x0.5MM$; $C=3.5 - GOLD$ (2)
372211	COMPOSITE STEERING BLOCK - RIGHT - HARD - V3
372221	COMPOSITE STEERING BLOCK - LEFT - HARD - V3
372280	KING PIN (2)
372290	ALU SHIM 3.2x4.8x0.5 (4)
372292	STEEL SHIM 0.2MM - SILVER (2)
372293	STEEL SHIM 0.4MM - BLACK (2)
372294	STEEL SHIM 0.6MM - GOLD (2)
372310-0	ALU LOWER GRAPHITE SUSPENSION ARM HOLDER - ORANGE
372315	COMPOSITE ECCENTRIC BUSHINGS + CASTER CLIPS (2)
372320	COMPOSITE ARM BUSHING (4)

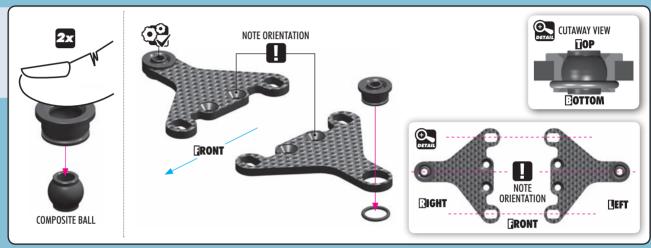
373120-0 373240	ADJ. TURNBUCKLE M3x17 MM - HUDY SPRÌNĞ STEEL™ (2) BALL-END 4.2MM - THREADED - HUDY SPRÌNĞ STEEL™ (2) ALU SHIM 5.3x7.8x0.5MM - ORANGE (10) PIVOTBALL UNIVERSAL 6.0 MM - HUDY SPRÌNG STEEL™ (2) COMPOSITE PIVOTBALL 6.0 MM - V2 (2) FRONT WHEEL AXLE (2) ALU MOUNT 6.0MM - ORANGE (2) FRONT UPPER PIVOT PIN 2x31MM (2)
965019	E-CLIP 1.9 (10)

1. FRONT SUSPENSION LES

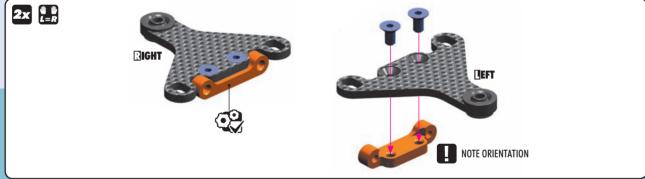


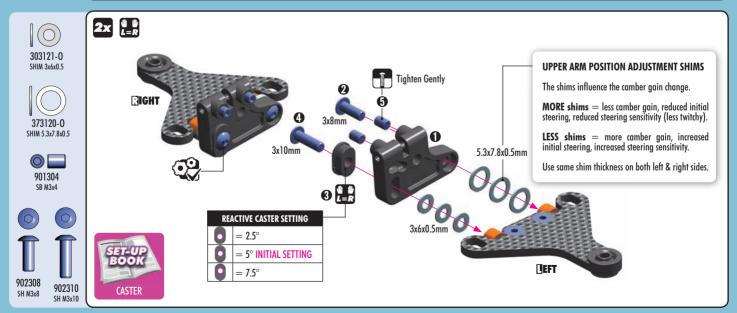




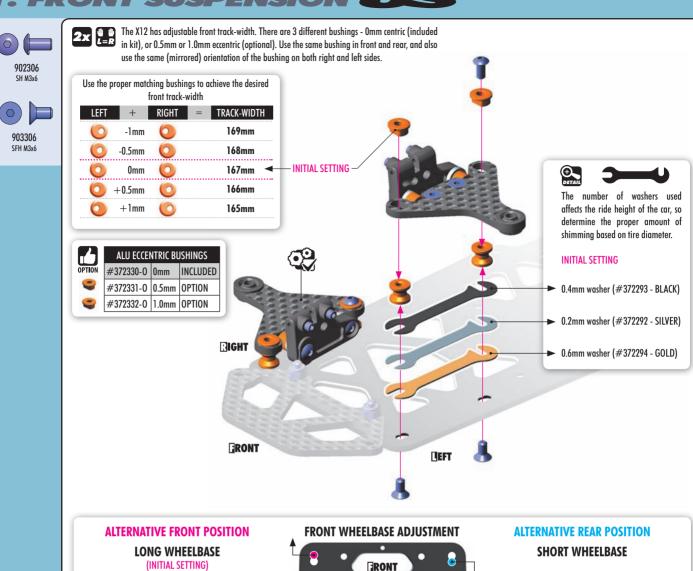






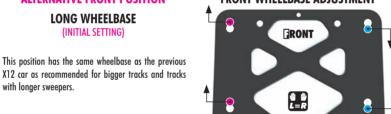


1. FRONT SUSPENSION A



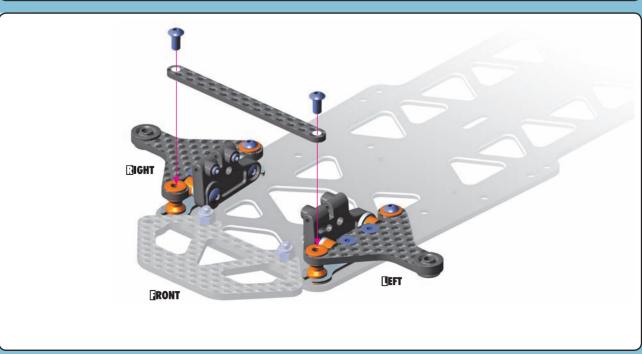


with longer sweepers.



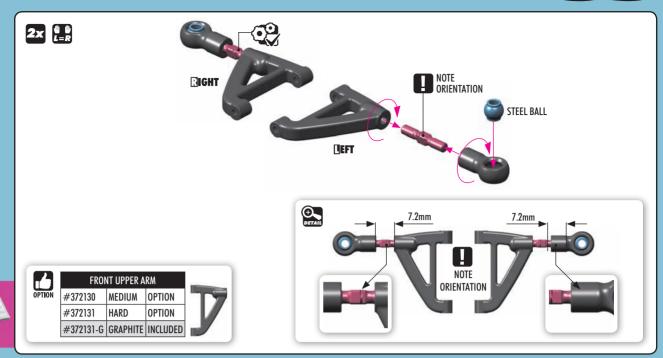
Shorter wheel base allows the car to rotate better right in the center of the corner to maintain corner speed and therefore it is recommended to use on tight technical tracks or tracks with many 180 degree corners

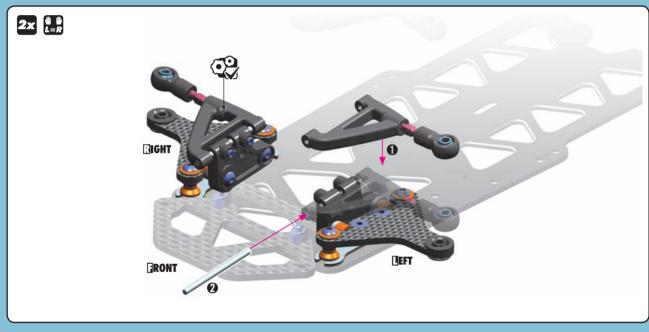


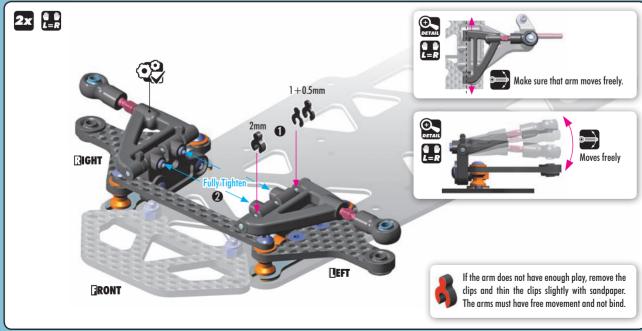




1. FRONT SUSPENSION LIST



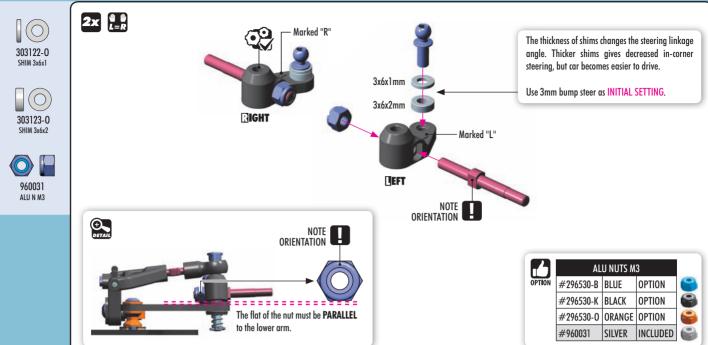


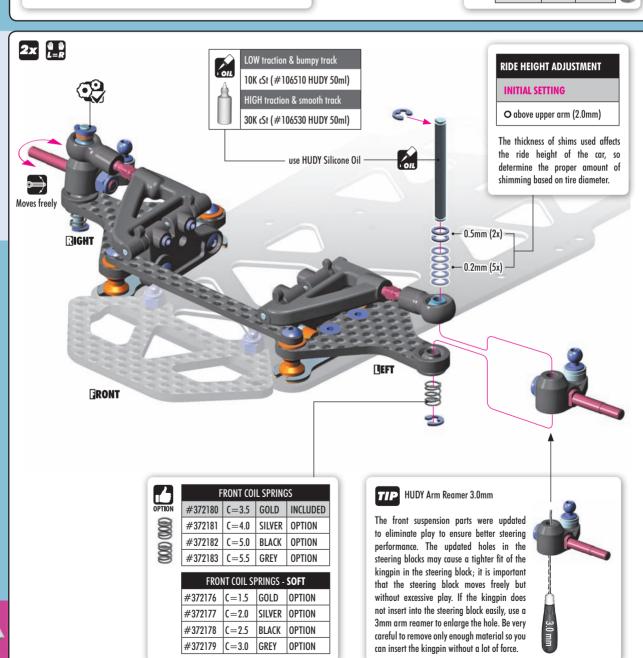


SET-UP BOOK

CAMBER

1. FRONT SUSPENSION LES



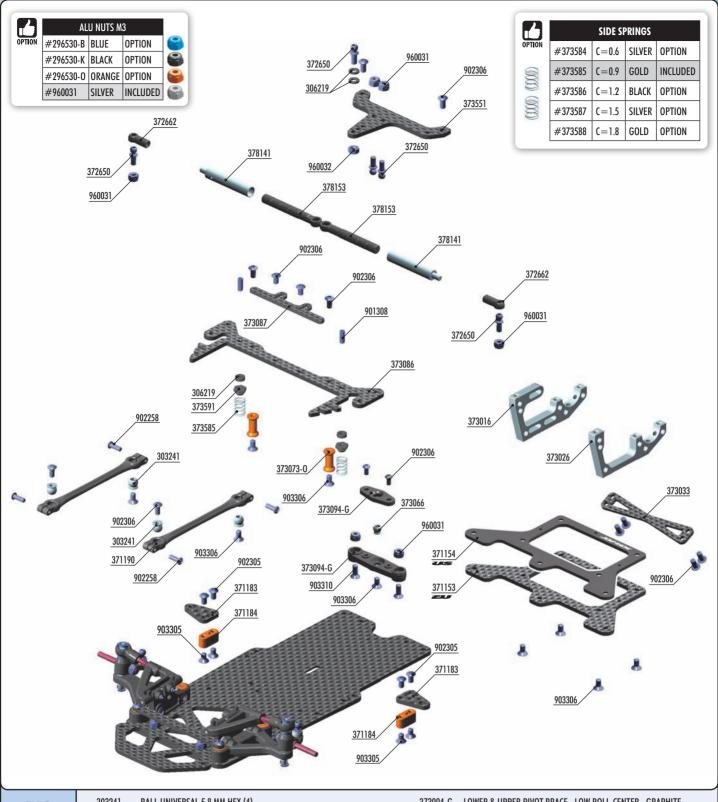




S 3 2x4 8x0 5



3. REAR SUSPENSION ELL LES





303241	BALL UNIVERSAL 5.8 MM HEX (4)	373094-G	LOWER & UPPER PIVOT BRACE - LOW ROLL-CENTER - GRAPHITE
306219	COMPOSITE SET OF SERVO SHIMS (4)	373551	X12'20 GRAPHITE REAR POD UPPER PLATE 2.5MM
371153	GRAPHITE REAR POD LOWER PLATE 2.5MM (EU SPECS)	373585	SIDE SPRING C=0.9 - GOLD (2)
371154	ALU 2.0MM REAR POD LOWER PLATE - 7075 T6 (US SPECS)	373591	COMPOSITE SIDE SPRING HOLDER (2)
371183	X12'20 GRAPHITE POD LINK PLATE 2.5MM (2)	378141	ALU SIDE TUBE (2)
371184	X12'20 ALU POD LINK GRAPHITE PLATE HOLDER	378153	COMPOSITE SIDE TUBE SHAFT (2)
371190	COMPOSITE POD LINK (2)		
372650	BALL-END 4.2MM THREADED HUDY SPRING STEEL™ (2)	901308	HEX SCREW SB M3x8 (10)
372662	COMPOSITE BALL-JOINT 4.2 MM (4)	902258	HEX SCREW SH M2.5x8 (10)
373016	ALU REAR BULKHEAD - MOTOR (RIGHT)	902305	HEX SCREW SH M3x5 (10)
373026	ALU REAR BULKHEAD - LEFT	902306	HEX SCREW SH M3x6 (10)
373033	GRAPHITE REAR BULKHEAD BRACE 2MM	903305	HEX SCREW SFH M3x5 (10)
373066	ALU PIVOT BALL	903306	HEX SCREW SFH M3x6 (10)
373073-0	ALU REAR BRACE MOUNT 16MM- ORANGE (2)	903310	HEX SCREW SFH M3x10 (10)
373086	GRAPHITE REAR BRACE 2.5MM	960031	ALU NUT M3 (10)
373087	GRAPHITE BATTER BACKSTOP 2.0MM	960032	NUT M3 (10)

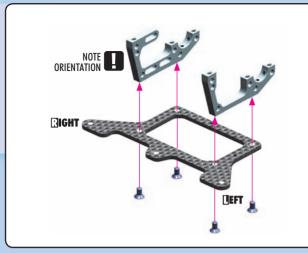


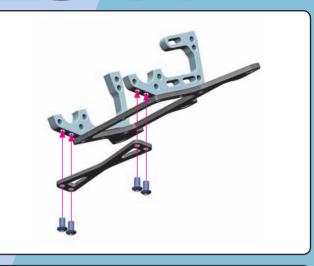




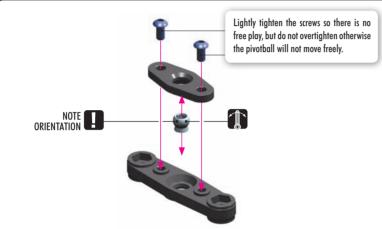








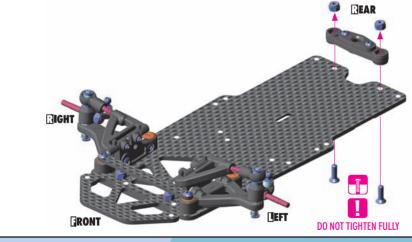






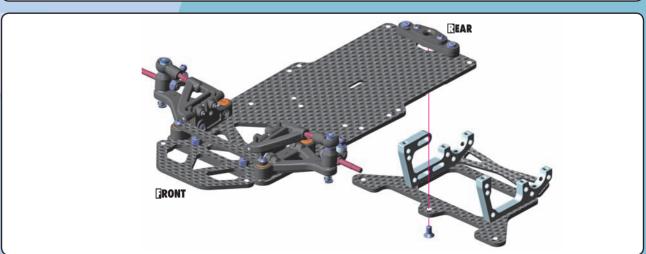






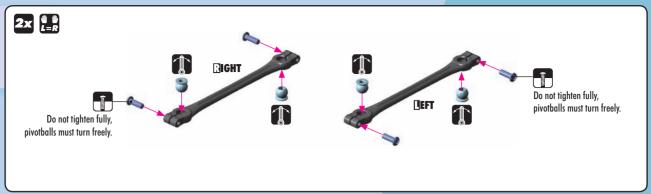








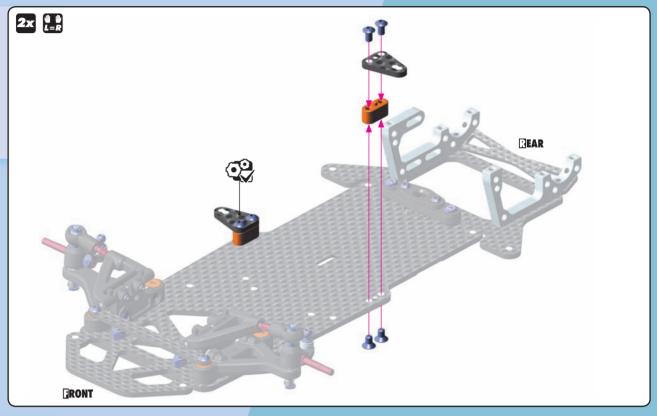






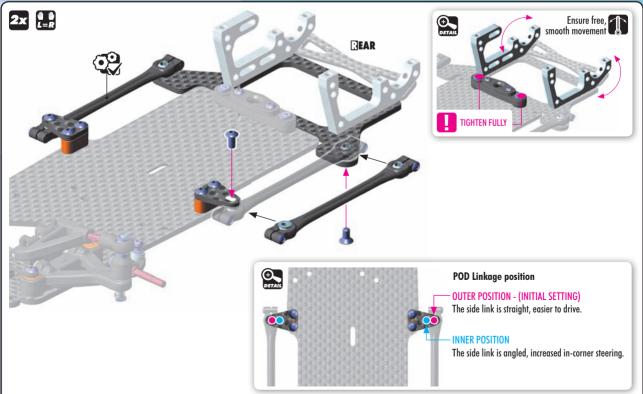
902305 SH M3x5







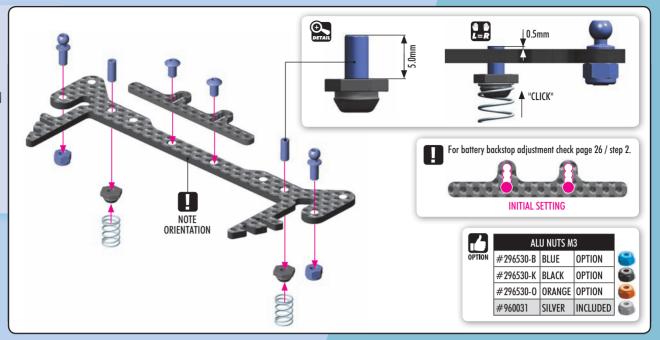






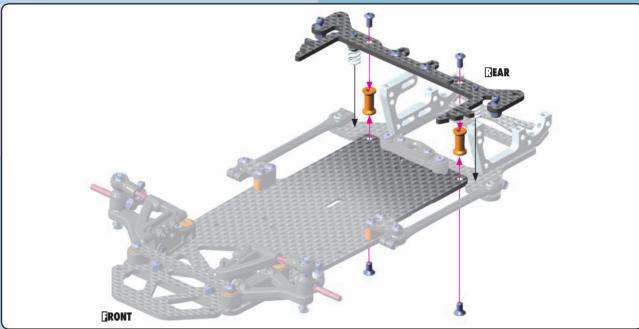


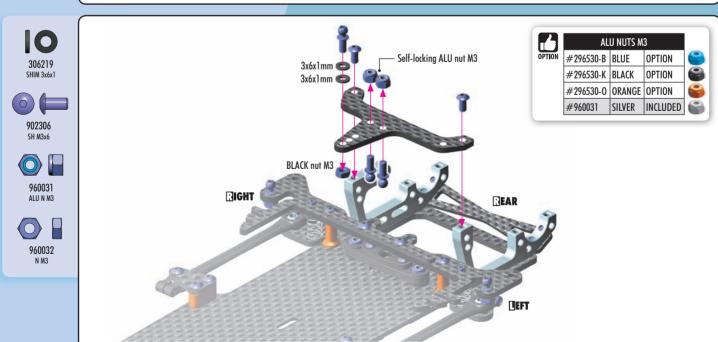
960031 ALU N M3



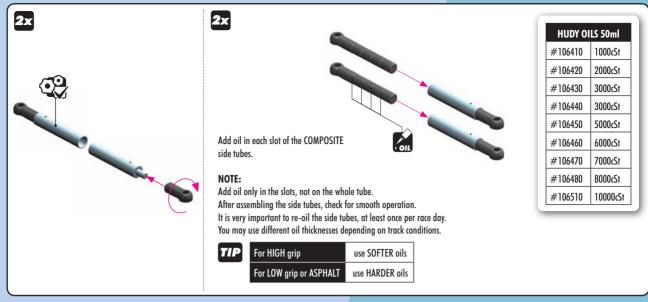


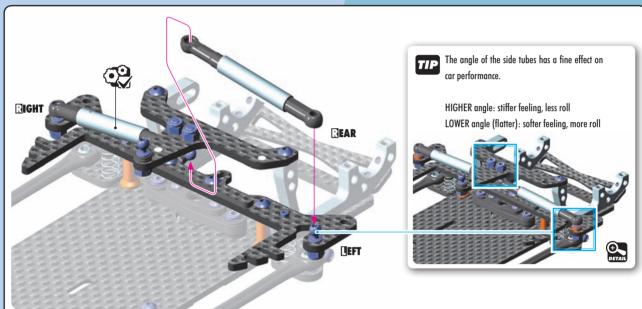


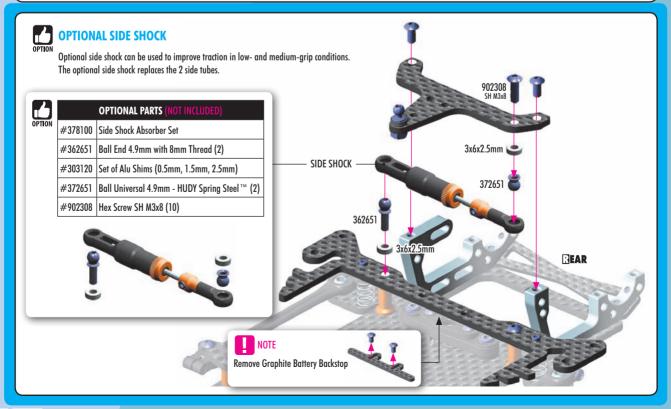








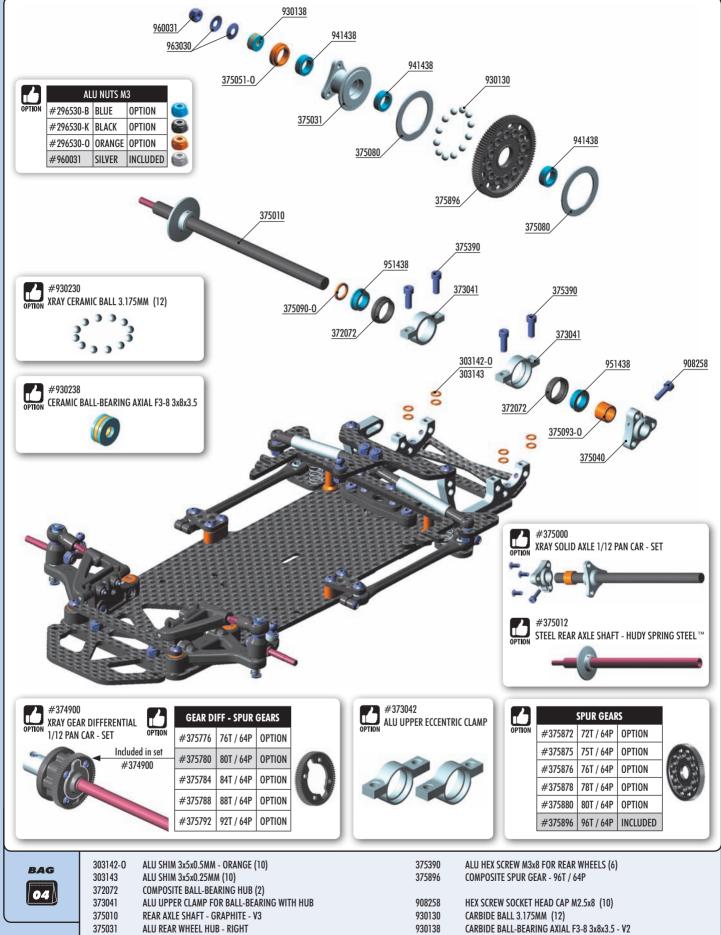




4. BALL DIFFERENTIAL







375040 ALU REAR WHEEL HUB - LEFT BALL-BEARING 1/4"x3/8"x1/8" RUBBER SEALED - OIL (2) 941438 375051-0 ALU DIFF HUB - ORANGE BALL-BEARING 1/4" x 3/8" x 1/8" FLANGED - STEEL SEALED - OIL (2) 951438 375080 D-LOCK DIFF PLATE (2) 960031 ALU NUT M3 (10) SET OF ALU SHIMS (0.5MM, 1.0MM, 2.0MM) - ORANGE CONE WASHER ST 3x8x0.5 (10) 375090-0 963030 375093-0 ALU SHIM 6.37x8.4x6.0MM - ORANGE (2)



4. BALL DIFFERENTIAL

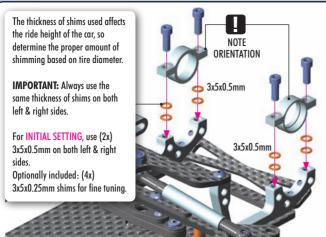




303143 SHIM 3x5x0.25



375390 ALU SCH M3x8





Wheelbase adjustment





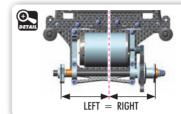


375093-0 6 4x8 4x6 0





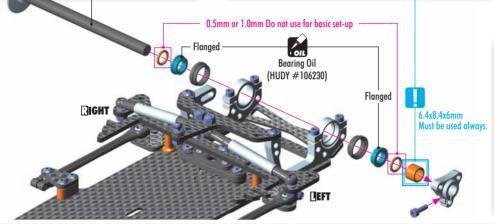




To set track-width, use the hole in the carbon pod plate as the centre point; this hole should always be centred between the two rear wheels once overall track-width is set. To set the track-width more easily, set the car on a ruler or use a digital vernier caliper.

REAR

Rear track-width is directly affected by wheel offsets, which can vary depending on tire brand.





The axle must have a VERY small amount of side play. If there is no side play, the axle may bind and damage the ball-bearings.

(0mm)







930138 RA 3v8



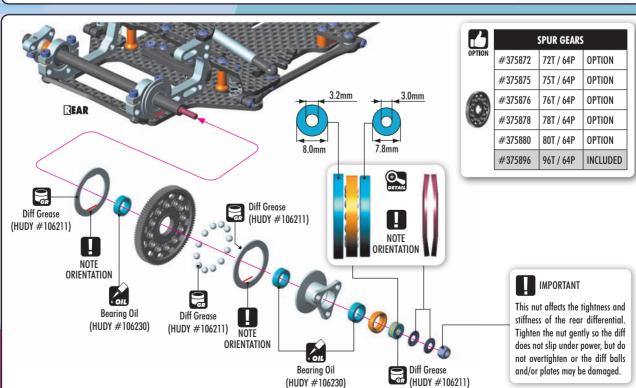
941438 BB 1/4"x3/8"x1/8"



0

963030 ST 3x8



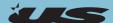




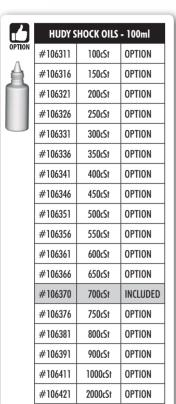
5. SHOCK ABSORBER

378011











BAG

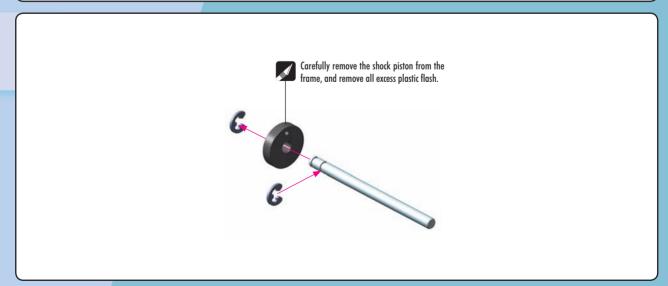
05

378001 SHOCK ABSORBER SET 378011 **COMPOSITE SHOCK PARTS - FRAME** 378020 ALU THREADED SHOCK BODY - HARDCOATED 378030-0 ALU SHOCK BODY CAP - LOWER - ORANGE 378040-0 ALU SHOCK ADJUSTABLE COLLAR - ORANGE ALU SHOCK BODY CAP - UPPER - ORANGE 378050-0 SHOCK SHAFT 378061 378070-0 ALU SHOCK SPRING COLLAR - ORANGE

378071-0 ALU SHOCK ADAPTER - ORANGE 378080 SHOCK RUBBER MEMBRANE (2) 378093 SHOCK SPRING - GOLD

901303 HEX SCREW SB M3x3 (10) 965015 E-CLIP 1.5 (10) SILICONE O-RING 2x2 (10) 971022

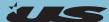
965015



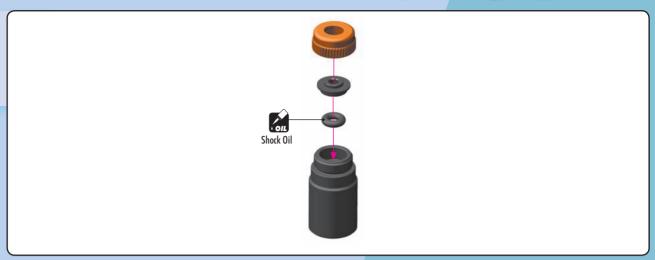


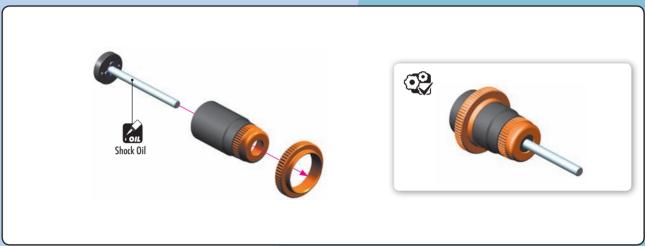
5. SHOCK ABSORBER















Extend the shock shaft completely. Fill the shock body with the shock oil.



Move the shock shaft up and down a few times to release the air bubbles trapped beneath the piston.



Orient the filled shock vertically for several minutes with the shock shaft fully extended. The remaining air bubbles will release.



Install the shock membrane into the groove in the upper shock cap.



Gently place the shock cap assembly onto the filled shock body. Excess oil will spill from the shock. Screw the shock cap onto the body by only a few turns, approx. 50%. Excess oil will flow through the hole in the shock cap.



Gently push the shock shaft completely into the shock body. Excess oil will flow through the hole in the shock cap.

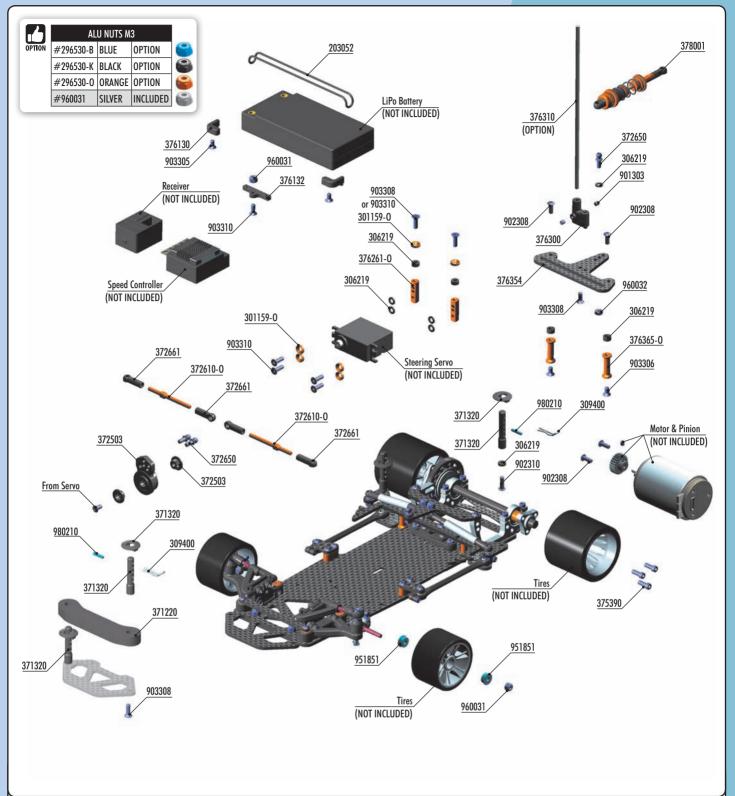


Keep the shock shaft pushed in the shock body and tighten the shock cap completely.

Tighten the cap fully but do not overtighten or the rubber membrane may be damaged. Make sure that there is no oil leakage after the cap is tightened.

6. FINAL ASSEMBLY





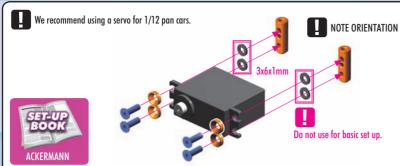
BAG
06

301159-0	ALU COUNTERSUNK SHIM - ORANGE (4)	376365-0	ALU MOUNT 18.0MM - ORANGE (2)
305968~306000	PINION GEAR HARDCOATED 18~50T/64P (OPTION)	376310	FIBERGLASS SOLID ANTENNA ROD $+$ CAP (OPTION)
306219	COMPOSITE SET OF SERVO SHIMS (4)	378001	SHOCK ABSORBER SET
309400	BODY CLIP FOR 5MM BODY POST (8)		
371220	X12 FOAM BUMPER	203052	O-RING FOR 1/10 ON-ROAD SET-UP WHEEL (4)
371320	COMPOSITE BODY POST (2)	901303	HEX SCREW SB M3x3 (10)
372503	COMPOSITE SERVO SAVER - STIFF - SET	902308	HEX SCREW SH M3x8 (10)
372610-0	ALU ADJ. TURNBUCKLE M3x42 MM - ORANGE (2)	902310	HEX SCREW SH M3x10 (10)
372650	BALL-END 4.2MM - THREADED - HUDY SPRING STEEL™ (2)	903305	HEX SCREW SFH M3x5 (10)
372661	COMPOSITE STEERING BALL-JOINT 4.2 MM OPEN (4)	903306	HEX SCREW SFH M3x6 (10)
375390	ALU HEX SCREW M3x8 FOR REAR WHEELS (6)	903308	HEX SCREW SFH M3x8 (10)
376130	COMPOSITE LiPo BATTERY BACKSTOP (2)	903310	HEX SCREW SFH M3x10 (10)
376132	GRAPHITE BATTERY BACKSTOP 3.0MM - MIDDLE	951851	BALL-BEARING 1/8" x 5/16" x 9/64" FLANGED - STEEL SEALED - OIL (2)
376261-0	X12'20 ALU SERVO MOUNT - ORANGE (2)	960031	ALU NUT M3 (10)
376300	COMPOSITE ANTENNA MOUNT	960032	NUT M3 (10)
376354	X12'20 GRAPHITE PLATE FOR ANTENNA HOLDER	980210	PIN 2x10 (10)

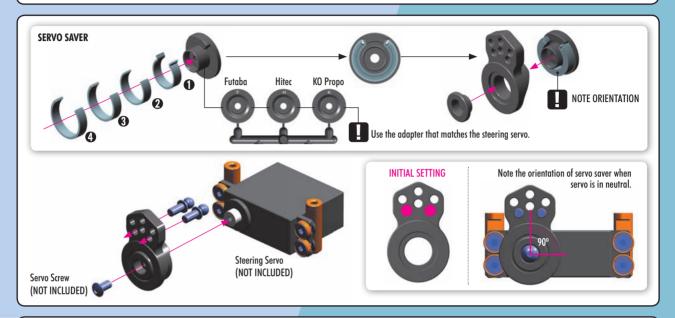


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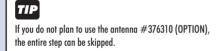


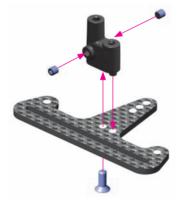




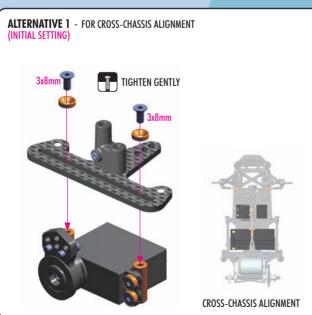


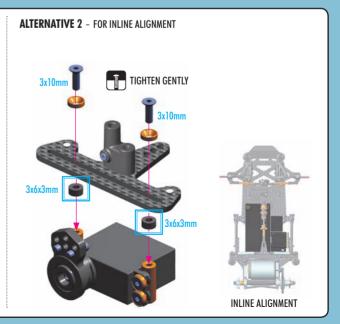










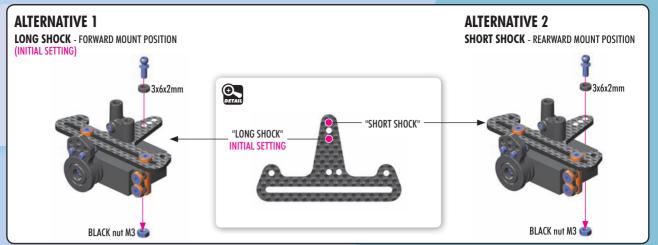


6. FINAL ASSEMBLY









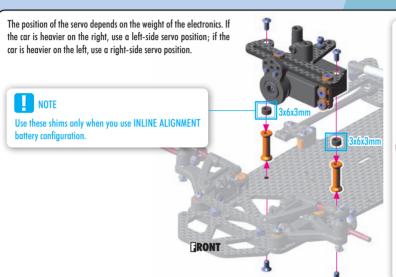


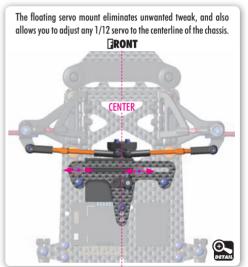




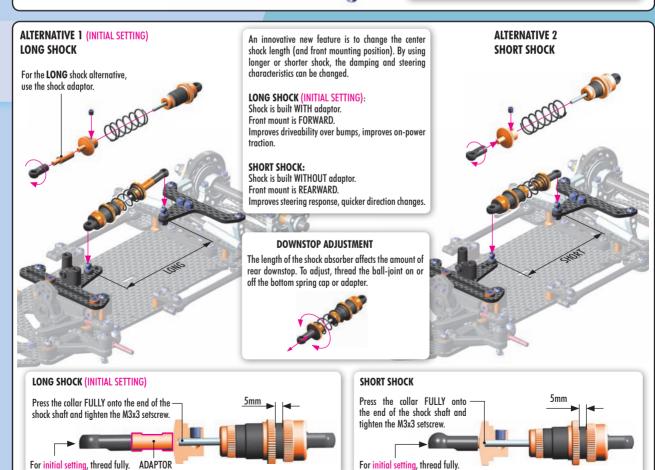




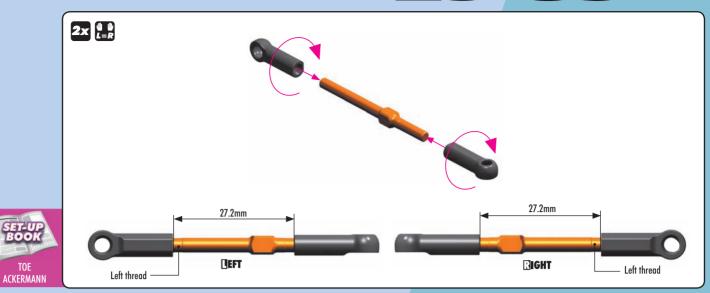


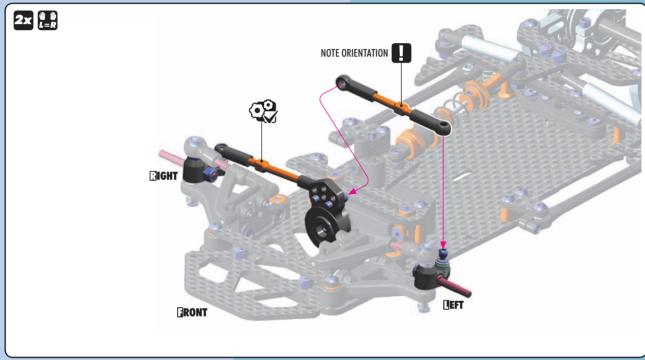


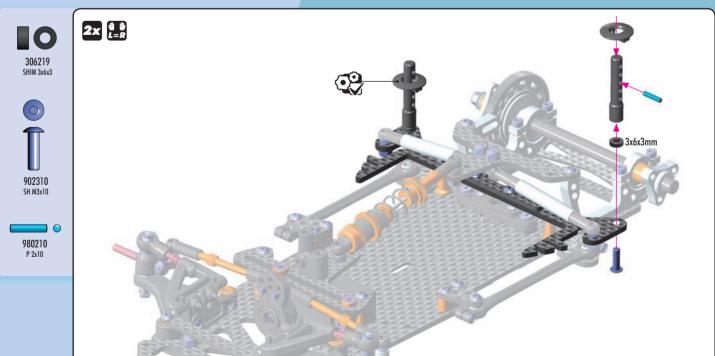




6. FINAL ASSEMBLY LEG US





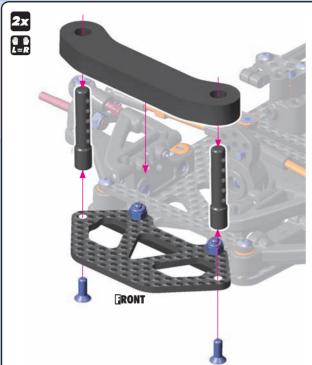


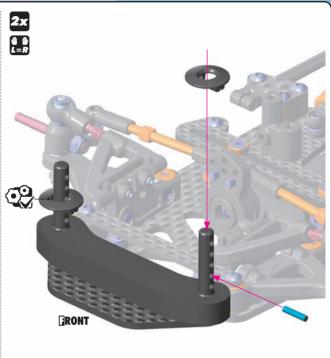


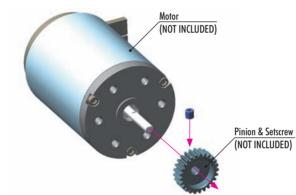


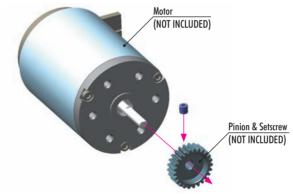


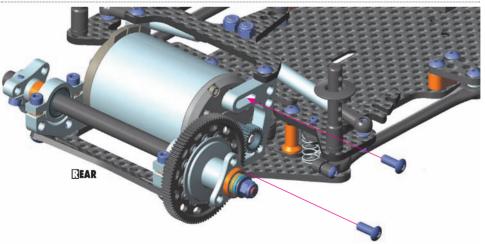












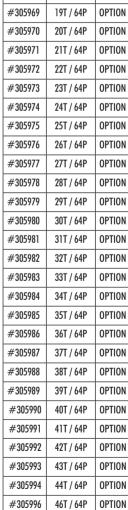




GEAR MESH

Adjust the gear mesh so there is appropriate space between the spur gear and pinion teeth. There should be a very small amount of freeplay.





PINION GEARS ALU HARDCOATED

18T / 64P

OPTION

#305968



902308

SH M3x8



47T / 64P

48T / 64P 50T / 64P OPTION

OPTION

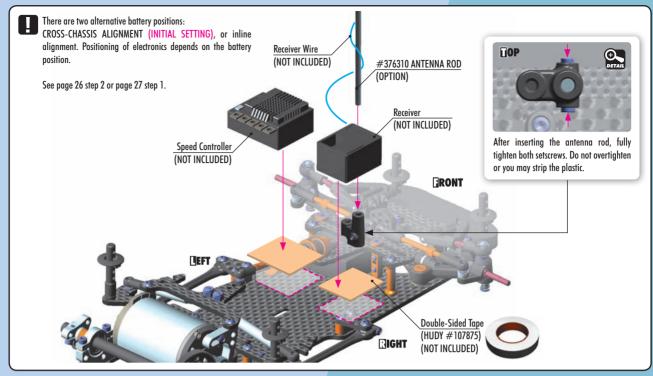
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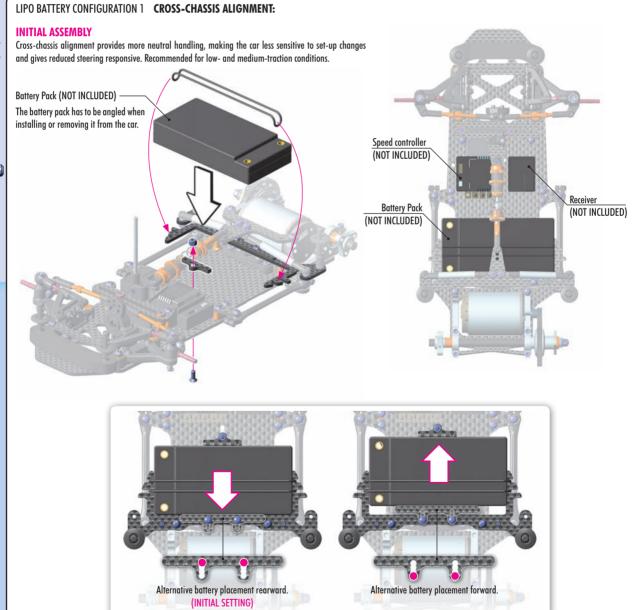
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6. FINAL ASSEMBLY ELD LIS





960031 ALU N M3

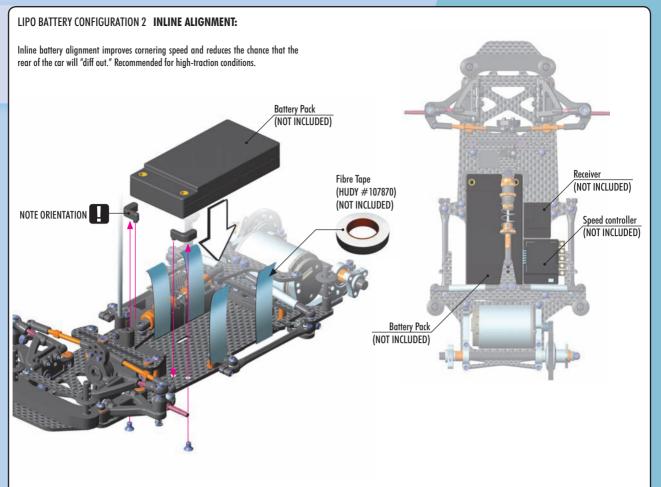


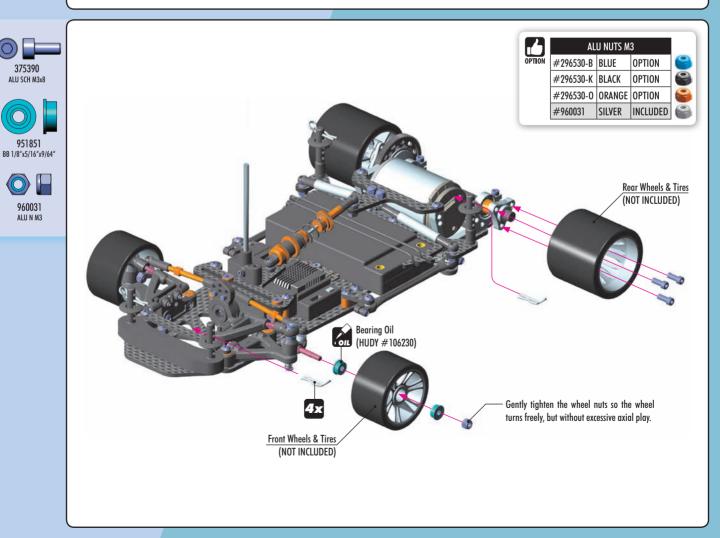
6. FINAL ASSEMBLY

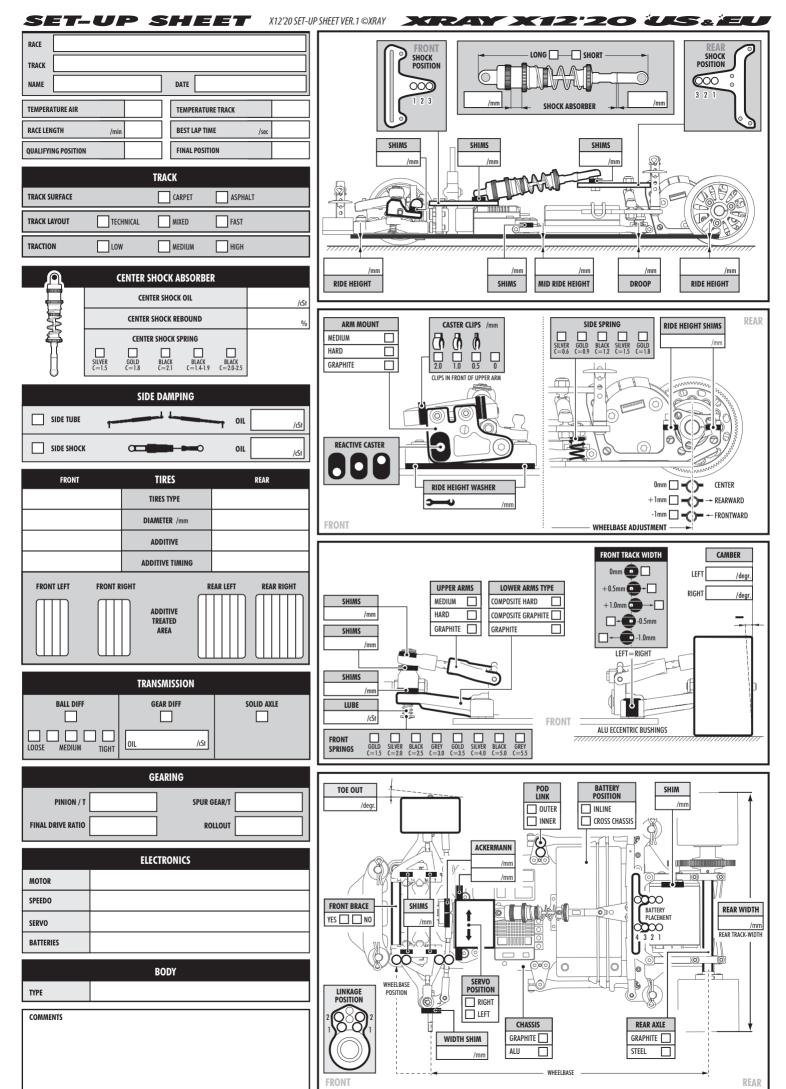




903305 SFH M3x5







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