

BEFORE YOU START

The X12 is a high-competition, high-quality, 1/12 pan 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 X12, 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 The X12 is not what you wanted or expected, do not continue any further. Your hobby dealer cannot accept your X12 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

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

XRAY USA

RC America, 2030 Century Center Blvd #15 Irving, TX 75062 USA Phone: (214) 744-2400 Fax: (214) 744-2401 E-mail: xrav@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 away.
- If the model behaves strangely, immediately stop the model, check and clear the
- 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.



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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 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.



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

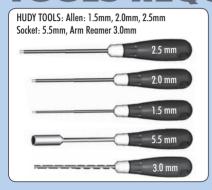


Assembly view





TOOLS REQUIRED











Pocket Hobby Knife (HUDY #188981)



Turnbuckle 3mm (HUDY #181030)



(HUDY #181040)

(HUDY #107600) (HUDY #107601)

Reamer



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



Receiver

















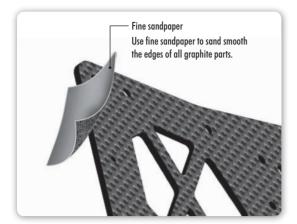


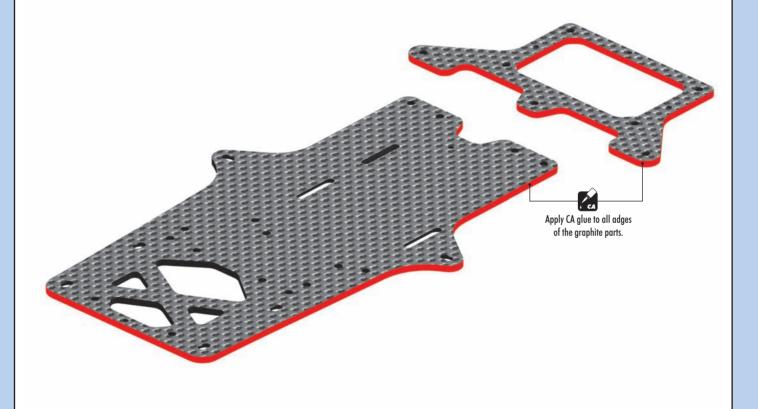


GRAPHITE PART PREPARATION ELLI

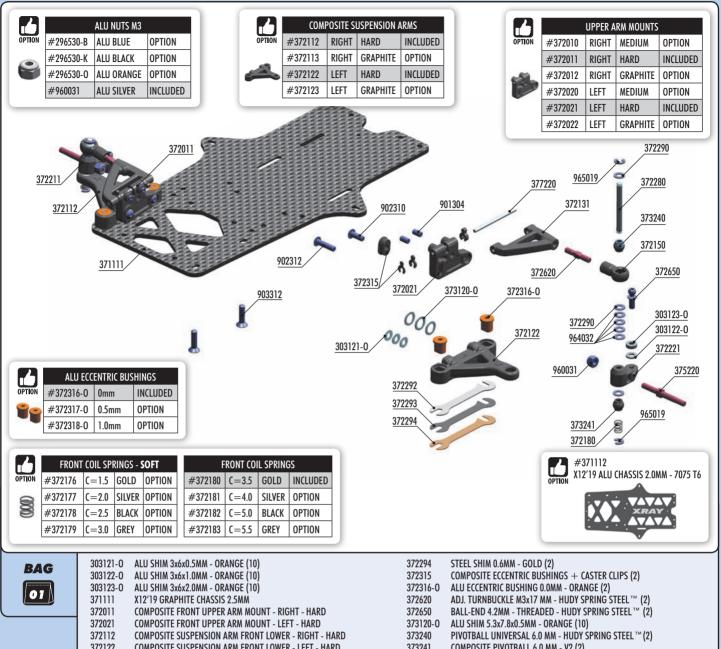
PREPARE ALL GRAPHITE PARTS

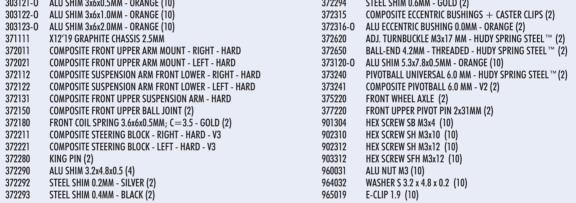
To protect and seal edges of graphite parts, sand edges smooth and then apply CA glue.

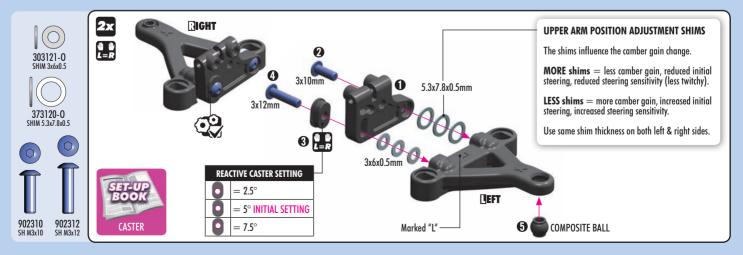




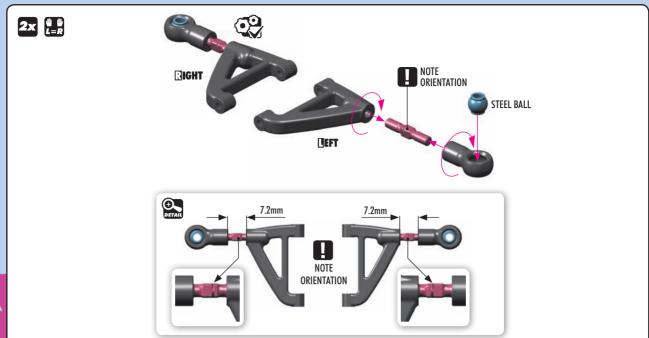
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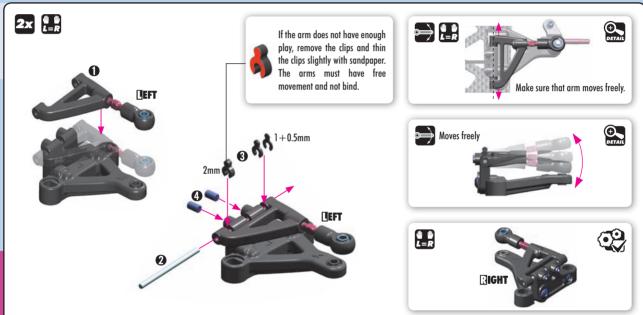


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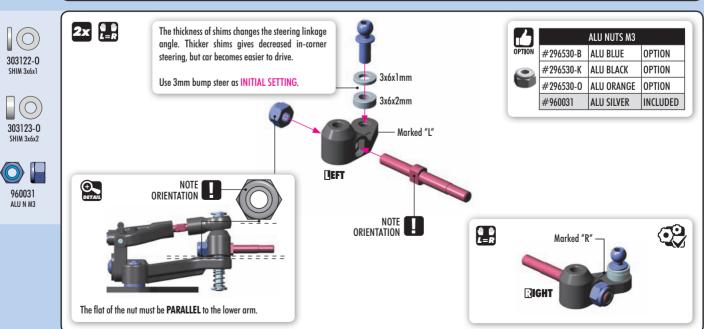












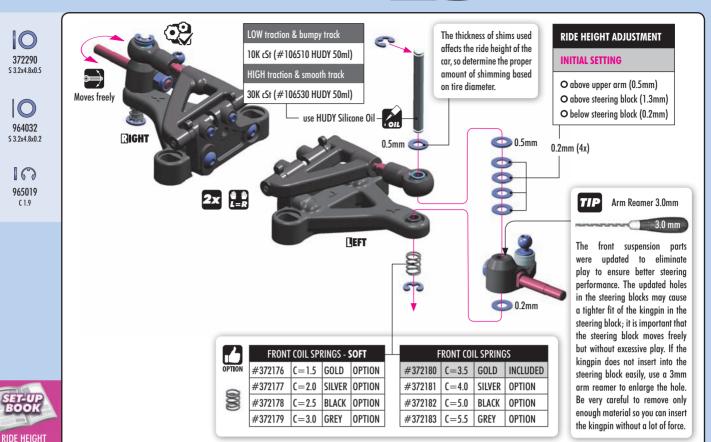
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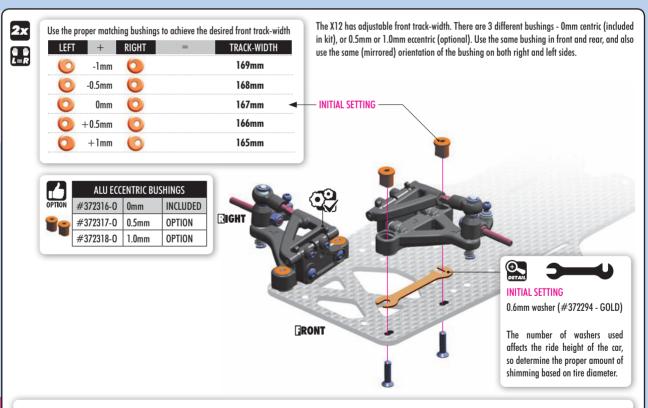




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ALTERNATIVE FRONT POSITION

Long wheelbase

(INITIAL SETTING)

This position has the same wheelbase as the previous X12 car as recommended for bigger tracks and tracks with longer sweepers.

FRONT WHEELBASE ADJUSTMENT

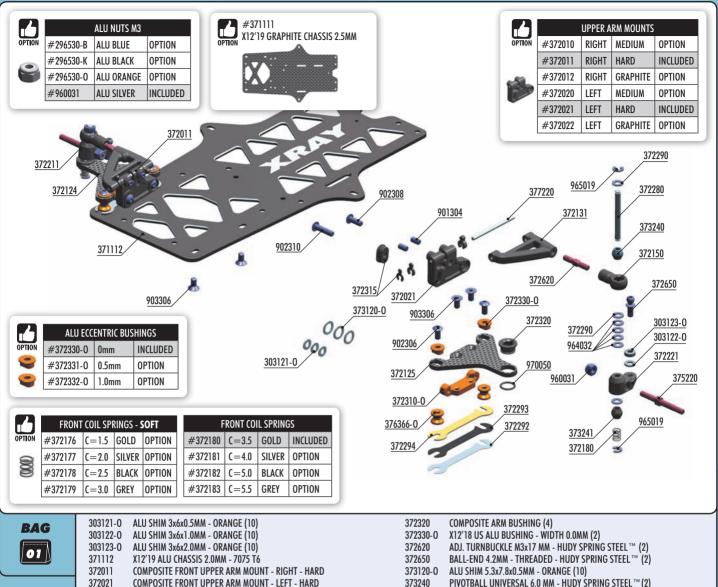


ALTERNATIVE REAR POSITION

Short Wheelbase

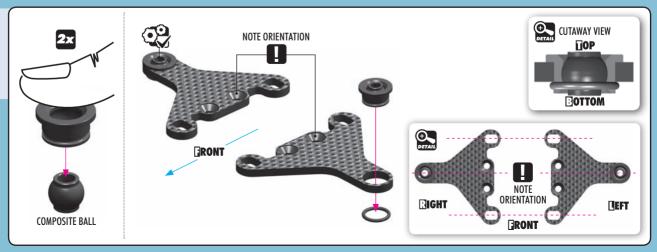
Shorter wheel base allows the car to rotate better right in the center of the corner to maintain corner speed and therefore it is recommended to use on tight technical tracks or tracks with many 180 degree corners

1. FRONT SUSPENSION



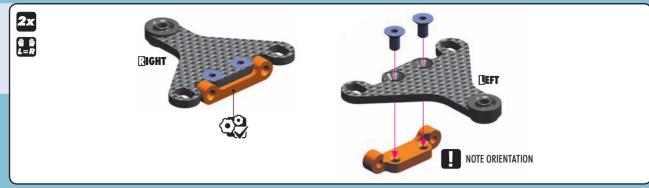
303121-0	ALU SHIM 3x6x0.5MM - ORANGE (10)	372320	COMPOSITE ARM BUSHING (4)
303122-0	ALU SHIM 3x6x1.0MM - ORANGE (10)	372330-0	X12'18 US ALU BUSHING - WIDTH 0.0MM (2)
303123-0	ALU SHIM 3x6x2.0MM - ORANGE (10)	372620	ADJ. TURNBUCKLE M3x17 MM - HUDY SPRING STEEL™ (2)
371112	X12'19 ALU CHASSIS 2.0MM - 7075 T6	372650	BALL-END 4.2MM - THREADED - HUDY SPRING STEEL™ (2)
372011	COMPOSITE FRONT UPPER ARM MOUNT - RIGHT - HARD	373120-0	ALU SHIM 5.3x7.8x0.5MM - ORANGE (10)
372021	COMPOSITE FRONT UPPER ARM MOUNT - LEFT - HARD	373240	PIVOTBALL UNIVERSAL 6.0 MM - HUDY SPRING STEEL™ (2)
372124	X12'18 US GRAPHITE LOWER SUSPENSION ARM - RIGHT	373241	COMPOSITE PIVOTBALL 6.0 MM - V2 (2)
372125	X12'18 US GRAPHITE LOWER SUSPENSION ARM - LEFT	375220	FRONT WHEEL AXLE (2)
372131	COMPOSITE FRONT UPPER SUSPENSION ARM - HARD	376366-0	ALU MOUNT 6.0MM - ORANGE (2)
372150	COMPOSITE FRONT UPPER BALL JOINT (2)	377220	FRONT UPPER PIVOT PIN 2x31MM (2)
372180	FRONT COIL SPRING $3.6x6x0.5MM$; $C=3.5 - GOLD$ (2)	901304	HEX SCREW SB M3x4 (10)
372211	COMPOSITE STEERING BLOCK - RIGHT - HARD - V3	902306	HEX SCREW SH M3x6 (10)
372221	COMPOSITE STEERING BLOCK - LEFT - HARD - V3	902308	HEX SCREW SH M3x8 (10)
372280	KING PIN (2)	902310	HEX SCREW SH M3x10 (10)
372290	ALU SHIM 3.2x4.8x0.5 (4)	903306	HEX SCREW SFH M3x6 (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)
372310-0	ALU LOWER GRAPHITE SUSPENSION ARM HOLDER - ORANGE	970050	0-RING 5x1 (10)
372315	COMPOSITE ECCENTRIC BUSHINGS $+$ CASTER CLIPS (2)		





1. FRONT SUSPENSION LES



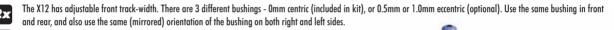






903306

SFH M3x6





INCLUDED

OPTION

OPTION

ALU ECCENTRIC BUSHINGS

0.5mm

1.0mm

#372330-0 0mm

#372331-0

#372332-0

Use the proper matching bushings to achieve the desired front track-width



e number of washers used

The number of washers used affects the ride height of the car, so determine the proper amount of shimming based on tire diameter.

INITIAL SETTING

0.4mm washer (#372293 - BLACK)

0.2mm washer (#372292 - SILVER)

0.6mm washer (#372294 - GOLD)

ALTERNATIVE FRONT POSITION

Long wheelbase (INITIAL SETTING)

This position has the same wheelbase as the previous X12 car as recommended for bigger tracks and tracks with longer sweepers.

FRONT WHEELBASE ADJUSTMENT

ALTERNATIVE REAR POSITION

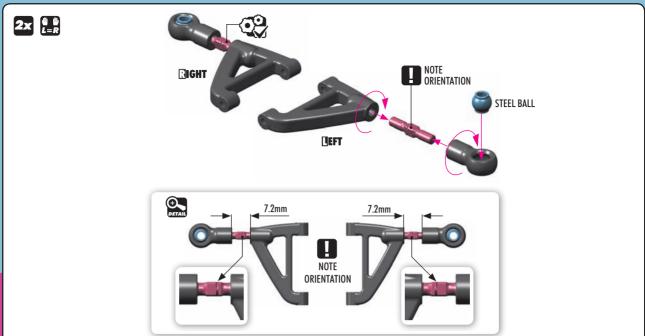
Short Wheelbase

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

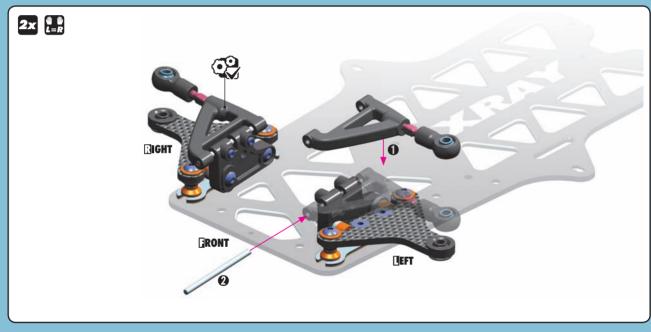


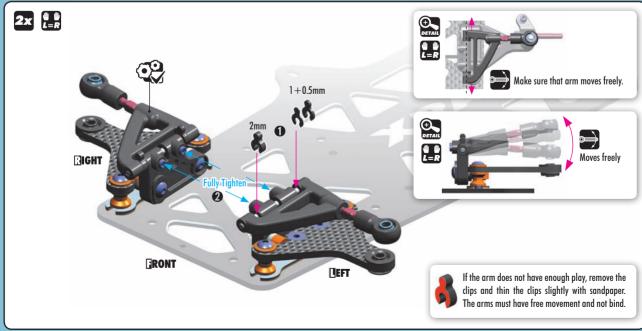


1. FRONT SUSPENSION LES

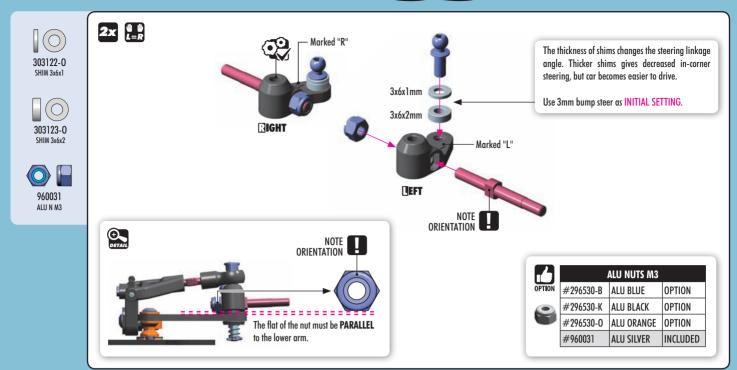








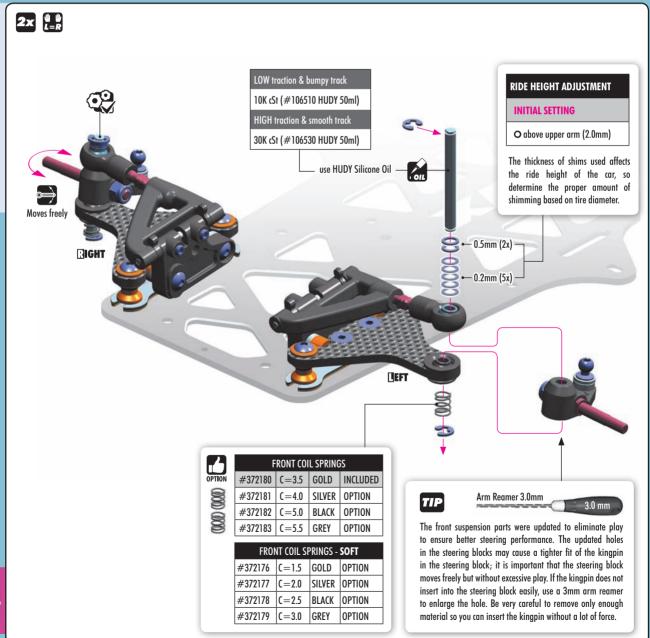
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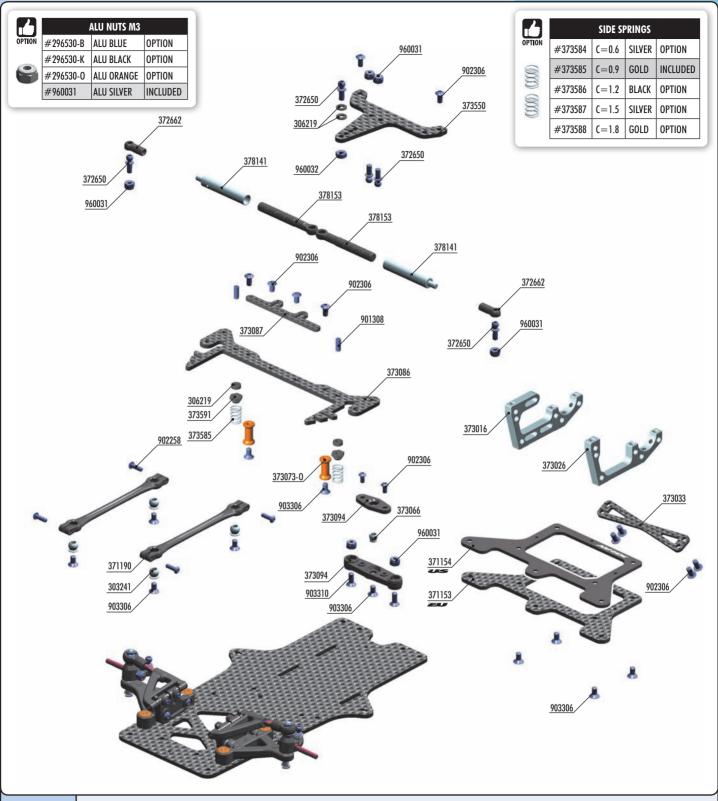
965019 C 1.9







3. REAR SUSPENSION ELL US





303241	BALL UNIVERSAL 5.8 MM HEX (4)	373550	X12'18 GRAPHITE REAR POD UPPER PLATE 2.5MM
306219	COMPOSITE SET OF SERVO SHIMS (4)	373585	SIDE SPRING C=0.9 - GOLD (2)
371153	GRAPHITE REAR POD LOWER PLATE 2.5MM (EU SPECS)	373591	COMPOSITE SIDE SPRING HOLDER (2)
371154	ALU 2.0MM REAR POD LOWER PLATE - 7075 T6 (US SPECS)	378141	ALU SIDE TUBE (2)
371190	COMPOSITE POD LINK (2)	378153	COMPOSITE SIDE TUBE SHAFT (2)
372650	BALL-END 4.2MM THREADED HUDY SPRING STEEL™ (2)		
372662	COMPOSITE BALL-JOINT 4.2 MM (4)	901308	HEX SCREW SB M3x8 (10)
373016	ALU REAR BULKHEAD - MOTOR (RIGHT)	902258	HEX SCREW SH M2.5x8 (10)
373026	ALU REAR BULKHEAD - LEFT	902306	HEX SCREW SH M3x6 (10)
373033	GRAPHITE REAR BULKHEAD BRACE 2MM	903306	HEX SCREW SFH M3x6 (10)
373066	ALU PIVOT BALL	903310	HEX SCREW SFH M3x10 (10)
373073-0	ALU REAR BRACE MOUNT 16MM- ORANGE (2)	960031	ALU NUT M3 (10)
373086	GRAPHITE REAR BRACE 2.5MM	960032	NUT M3 (10)
373087	GRAPHITE BATTER BACKSTOP 2.0MM		
373094	COMPOSITE LOWER & UPPER PIVOT BRACE - LOW ROLL-CENTER		

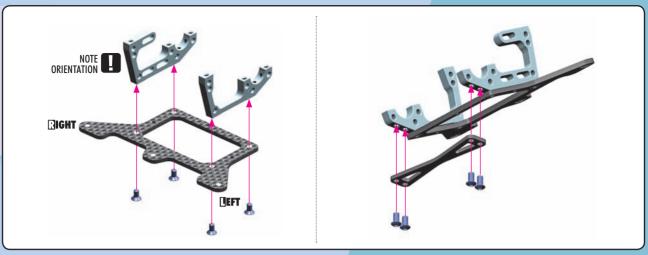
3. REAR SUSPENSION



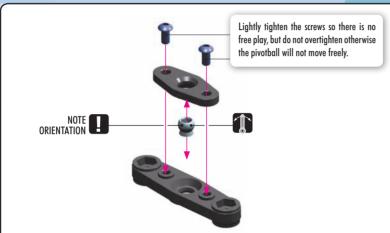


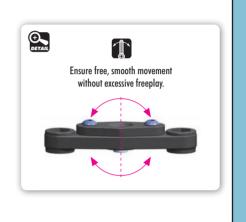






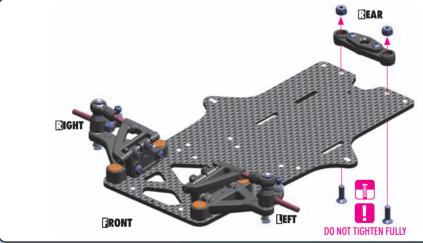






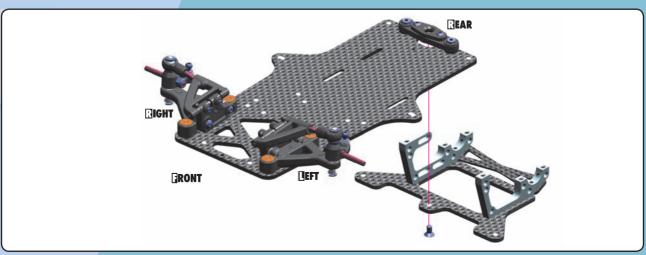






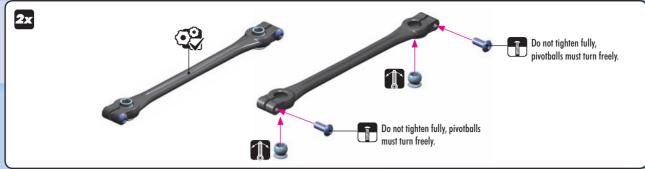
	ALU NUTS M3			
OPTION	#296530-B	ALU BLUE	OPTION	
	#296530-K	ALU BLACK	OPTION	
9	#296530-0	ALU ORANGE	OPTION	
	#960031	ALU SILVER	INCLUDED	



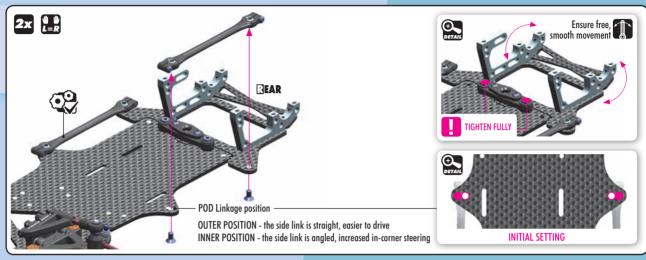


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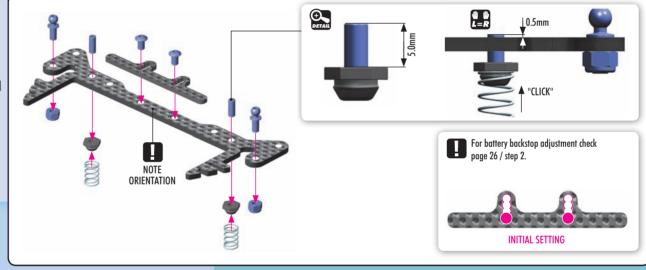




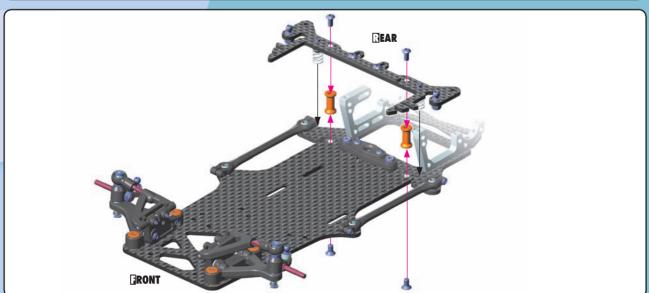




960031 ALU N M3







3. REAR SUSPENSION







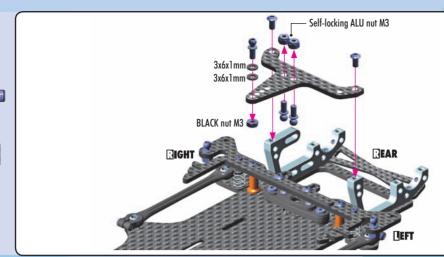


902306 SH M3x6

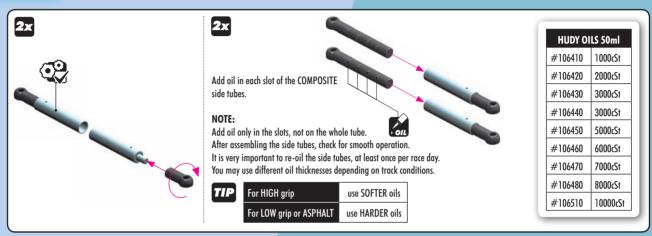


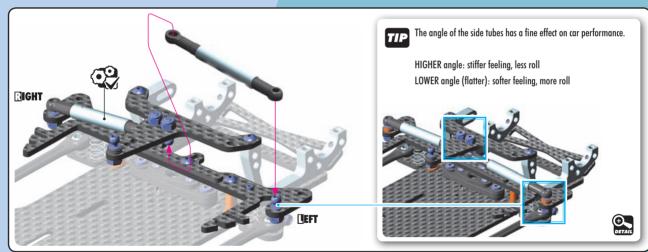


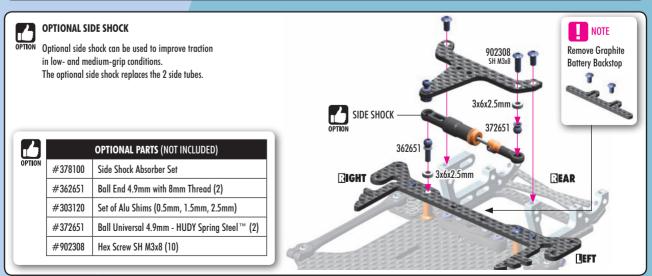




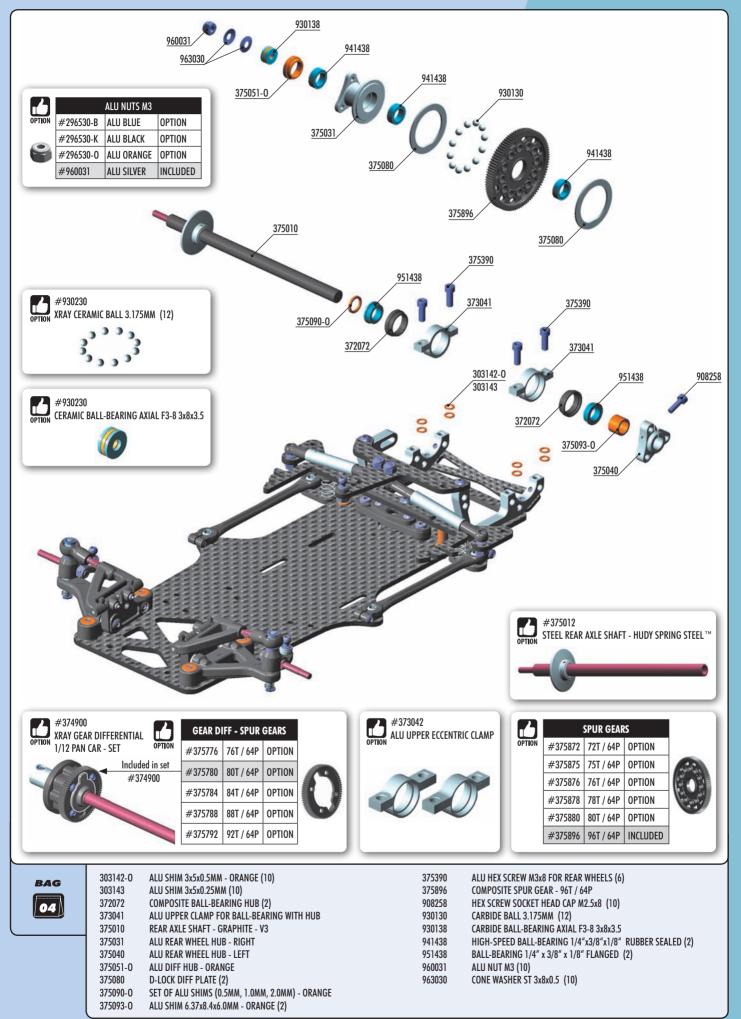
	ALU NUTS M3		
OPTION	#296530-B	ALU BLUE	OPTION
	#296530-K	ALU BLACK	OPTION
9	#296530-0	ALU ORANGE	OPTION
	#960031	ALU SILVER	INCLUDED







4. BALL DIFFERENTIAL ELJ LIS



4. BALL DIFFERENTIAL



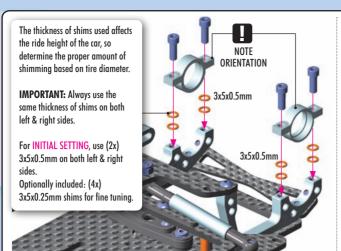




303143 SHIM 3x5x0.25



375390 ALU SCH M3x8

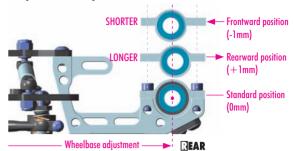




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A SHORTER car rotates harder in slow corners and has improved forward traction.

A LONGER car is more free in high-speed corners and will feel more linear, especially during fast direction changes.





375090-0 6 4v8 4v0 5





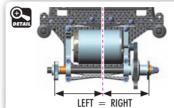




951438 BB 1/4"x3/8"x1/8"

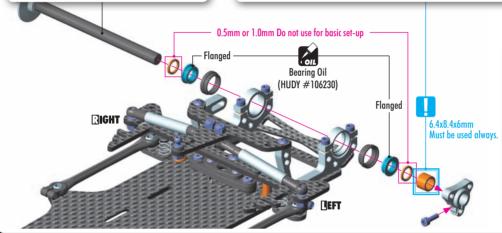


Optional steel rear axle offers better durability as it will not break even in serious crashes, however add extra weight and decreases slightly steering response



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











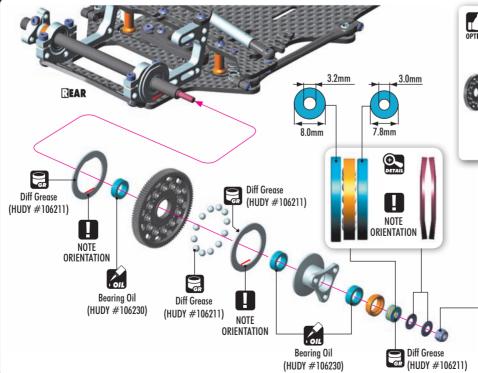






963030 ST 3v8





SPUR GEARS			
OPTION	#375872	72T / 64P	OPTION
	#375875	75T / 64P	OPTION
A	#375876	76T / 64P	OPTION
	#375878	78T / 64P	OPTION
	#375880	80T / 64P	OPTION
	#375896	96T / 64P	INCLUDED

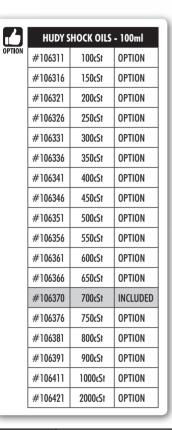
IMPORTANT

This nut affects the tightness and stiffness of the rear differential. Tighten the nut gently so the diff does not slip under power, but do not overtighten or the diff balls and/or plates may be damaged.



5. SHOCK ABSORBER ELL LIS





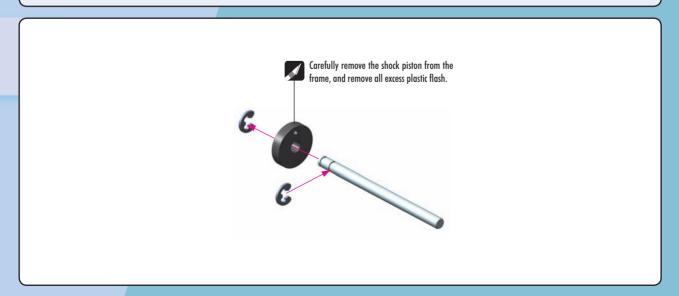


BAG 05 378001 SHOCK ABSORBER SET
378011 COMPOSITE SHOCK PARTS - FRAME
378020 ALU THREADED SHOCK BODY - HARDCOATED
378030-0 ALU SHOCK BODY CAP - LOWER - ORANGE
378040-0 ALU SHOCK ADJUSTABLE COLLAR - ORANGE
378050-0 ALU SHOCK BODY CAP - UPPER - ORANGE
378061 SHOCK SHAFT
378070-0 ALU SHOCK SPRING COLLAR - ORANGE

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

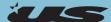
901303 HEX SCREW SB M3x3 (10) 965015 E-CLIP 1.5 (10) 971022 SILICONE O-RING 2x2 (10)

965015

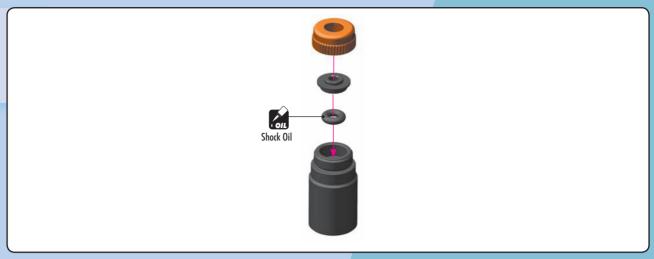


5. SHOCK ABSORBERS















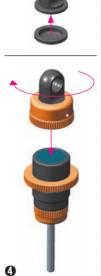
Extend the shock shaft completely. Fill the shock body with the shock oil.



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.



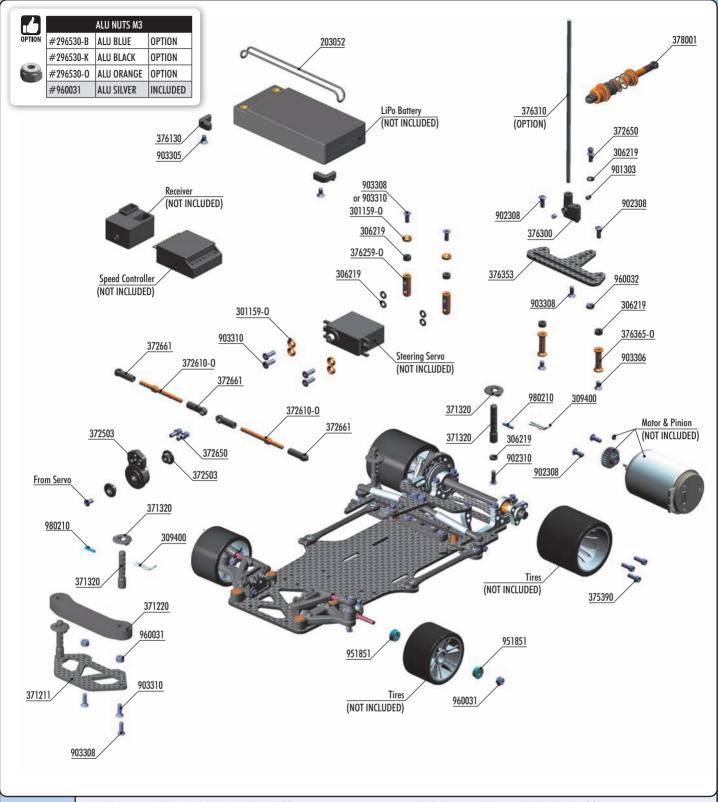
Gently push the shock shaft completely into the shock body. Excess oil will flow through the hole in the shock cap.



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 LELD LES



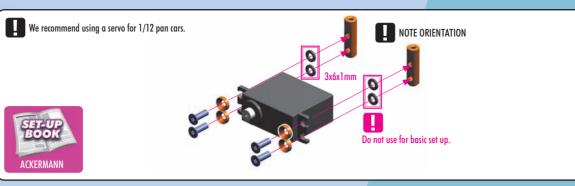


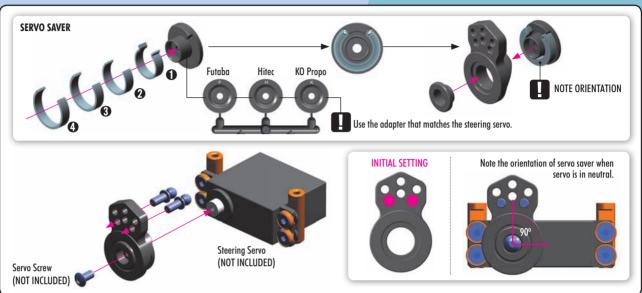
	301159-0	ALU COUNTERSUNK SHIM - ORANGE (4)	376365-0	ALU MOUNT 18.0MM - ORANGE (2)
	305968~306000	PINION GEAR HARDCOATED 18~50T/64P (OPTION)	376310	FIBERGLASS SOLID ANTENNA ROD $+$ CAP (OPTION)
	306219	COMPOSITE SET OF SERVO SHIMS (4)	378001	SHOCK ABSORBER SET
	309400	BODY CLIP FOR 5MM BODY POST (8)		
	371211	X12'19 GRAPHITE BUMPER LOWER HOLDER 2.5MM	203052	O-RING FOR 1/10 ON-ROAD SET-UP WHEEL (4)
	371220	X12 FOAM BUMPER	901303	HEX SCREW SB M3x3 (10)
	371320	COMPOSITE BODY POST (2)	902308	HEX SCREW SH M3x8 (10)
	372503	COMPOSITE SERVO SAVER - STIFF - SET	902310	HEX SCREW SH M3x10 (10)
	372610-0	ALU ADJ. TURNBUCKLE M3x42 MM - ORANGE (2)	903305	HEX SCREW SFH M3x5 (10)
	372650	BALL-END 4.2MM - THREADED - HUDY SPRING STEEL™ (2)	903306	HEX SCREW SFH M3x6 (10)
	372661	COMPOSITE STEERING BALL-JOINT 4.2 MM OPEN (4)	903308	HEX SCREW SFH M3x8 (10)
	375390	ALU HEX SCREW M3x8 FOR REAR WHEELS (6)	903310	HEX SCREW SFH M3x10 (10)
	376130	COMPOSITE LIPO BATTERY BACKSTOP (2)	951851	BALL-BEARING 1/8" x 5/16" x 9/64" FLANGED (2)
	376259-0	ALU SERVO MOUNT - ORANGE (2)	960031	ALU NUT M3 (10)
	376300	COMPOSITE ANTENNA MOUNT	960032	NUT M3 (10)
	376353	GRAPHITE PLATE FOR ANTENNA HOLDER	980210	PIN 2x10 (10)
_				









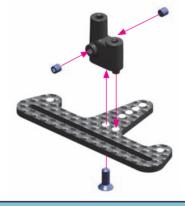








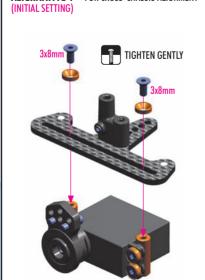
If you do not plan to use the antenna #376310 (OPTION), the entire step can be skipped.





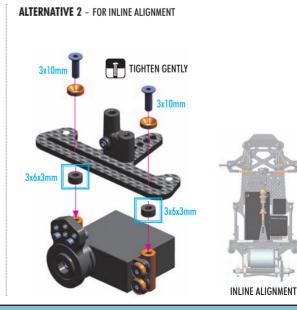






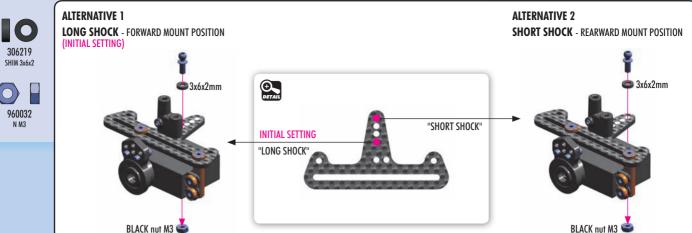
ALTERNATIVE 1 - FOR CROSS-CHASSIS ALIGNMENT

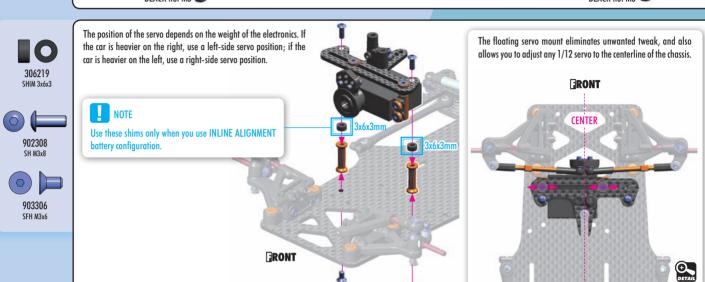


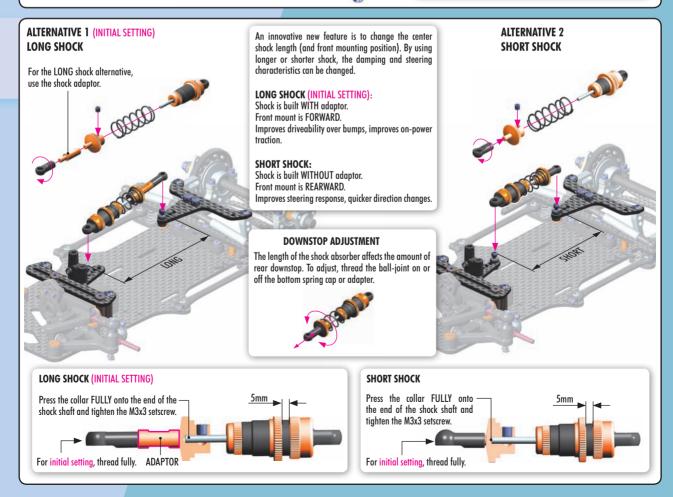




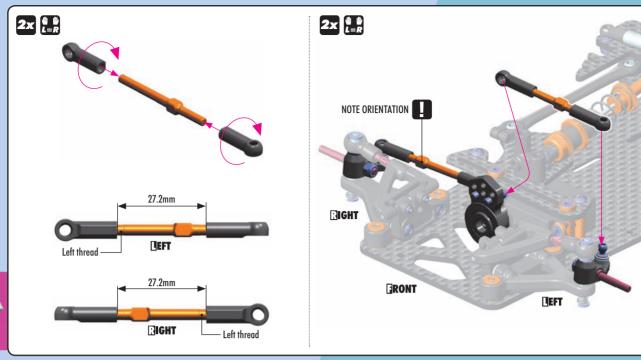
6. FINAL ASSEMBLY ELD US







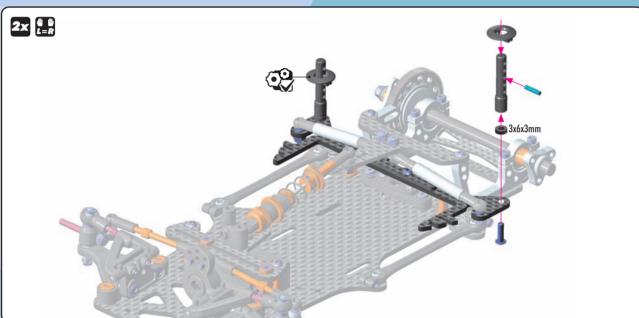


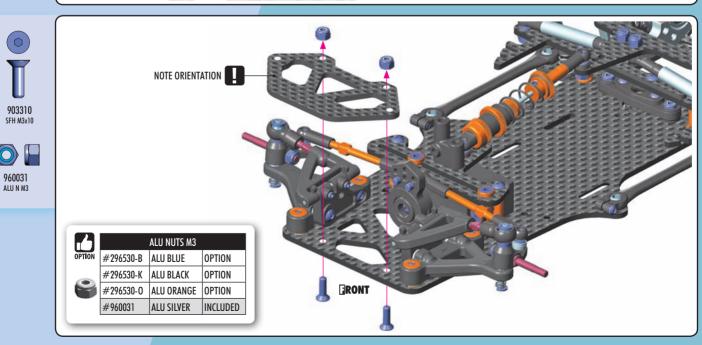




SET-UP BOOK

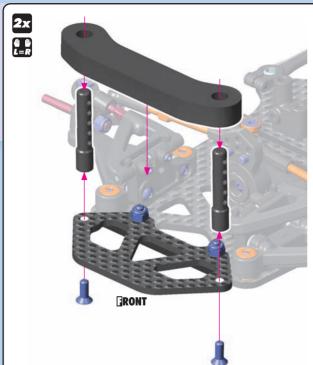
TOE ACKERMANN

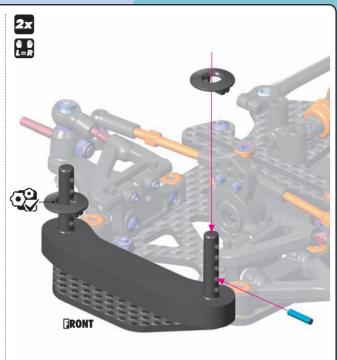


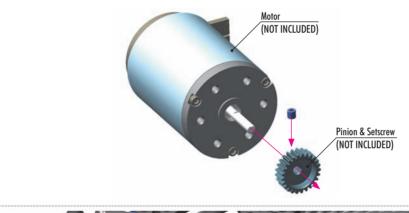


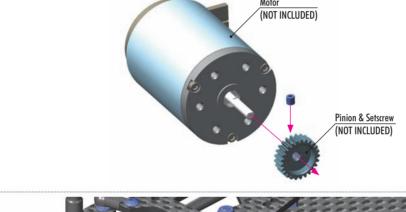


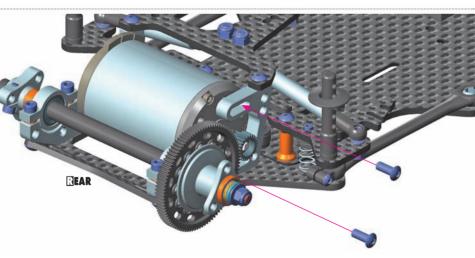












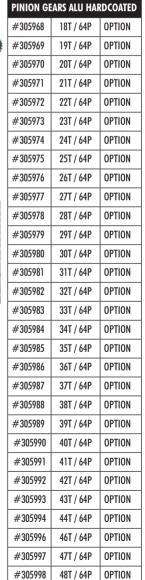




GEAR MESH

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.





#306000

50T / 64P

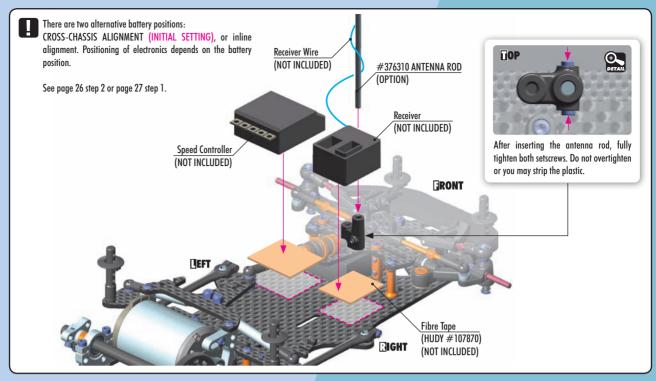
OPTION



902308

SH M3x8









903305 SFH M3x5

LIPO BATTERY CONFIGURATION 1 CROSS-CHASSIS ALIGNMENT: Cross-chassis alignment provides more neutral handling, making the car less sensitive to set-up changes and gives reduced steering responsive. Recommended for low- and medium-traction conditions. Battery Pack (NOT INCLUDED) The battery pack has to be angled when installing or removing it from the car. Speed controller NOTE ORIENTATION (NOT INCLUDED) **Battery Pack** Receiver (NOT INCLUDED) (NOT INCLUDED) Alternative battery placement rearward. Alternative battery placement forward. (INITIAL SETTING)

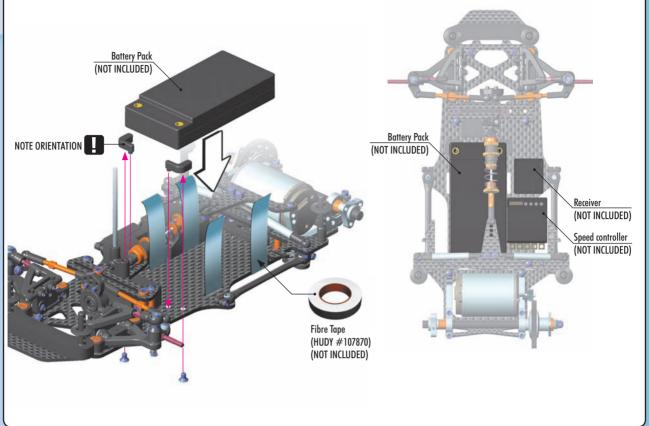


6. FINAL ASSEMBLY ELJ US

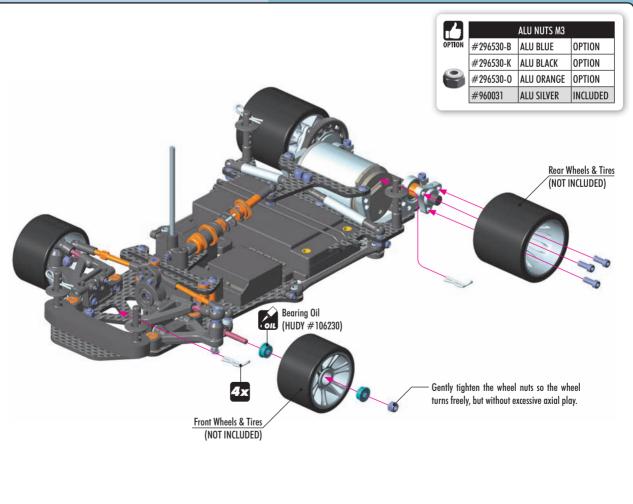


LIPO BATTERY CONFIGURATION 2 INLINE ALIGNMENT:

Inline battery alignment improves cornering speed and reduces the chance that the rear of the car will "diff out." Recommended for high-traction conditions.







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