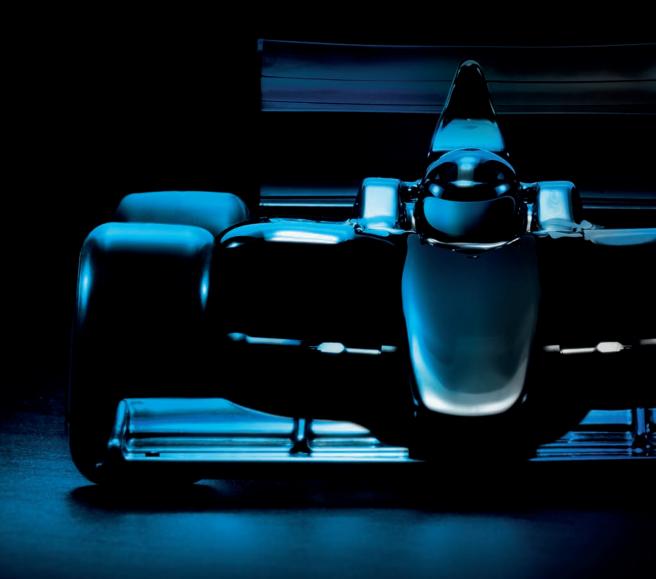
1/10 LUXURY ELECTRIC FORMULA





INSTRUCTION MANUAL
X1'21 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

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

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@teamxrav.com

XRAY USA

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

LISA

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

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

SAFETY PRECAUTIONS

Contains:

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

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

CAUTION: CANCER HAZARD

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

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

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

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



🔼 IMPORTANT NOTES - GENERAL

- This product is not suitable for children under 16 years of age without the direct supervision of a responsible and knowledgeable adult.
- Carefully read all manufacturers warnings and cautions for any parts used in the construction and use of your model.
- Assemble this kit only in places away from the reach of very small children.
- First-time builders and users should seek advice from people who have building experience in order to assemble the model correctly and to allow the model to reach its performance potential.
- Exercise care when using tools and sharp instruments.
- Take care when building, as some parts may have sharp edges.
- Keep small parts out of reach of small children. Children must not be allowed to put any parts in their mouth, or pull vinyl bag over their head.
- Read and follow instructions supplied with paints and/or cement, if used (not included in kit).
- Immediately after using your model, do NOT touch equipment on the model such as the motor and speed controller, because they generate high temperatures. You may seriously burn yourself seriously touching them.
- Follow the operating instructions for the radio equipment at all times.
- Do not put fingers or any objects inside rotating and moving parts, as this may cause damage or serious injury as your finger, hair, clothes, etc. may
- 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 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.





Professional Multi-Tool (HUDY #183011)

Turnbuckle Wrench 4mm (HUDY #181040)

HUDY

Special Tool for Turnbuckles, Nuts (HUDY #181090)

INCLUDED



ALSO REQUIRED

Transmitter	Receiver	Speed Controller	Steering Servo
			10
Electric Motor	Pinion Gear with Setscrew	LiPo Battery	Battery Charger
			0000
Bearing Oil (HUDY #106230)	Wheels & Tires & Inserts (HUDY #803070 & #803080)	Lexan™ Paint	Double-sided Tape (HUDY #107875)
COIL.			Auth

NOT INCLUDED



Jan Ratheisky (Factory Driver)

The European Champion and XRAY factory team driver Jan Ratheisky shares his pro tips and tricks.

OPTION

	SAMPLE OF OPTIONAL PARTS			
V	#37XXXX	TYPE1	OPTION 1	
	#37XXXX	TYPE2	OPTION 2	
	#37XXXX	TYPE3	INCLUDED	

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

COLOR INDICATIONS

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

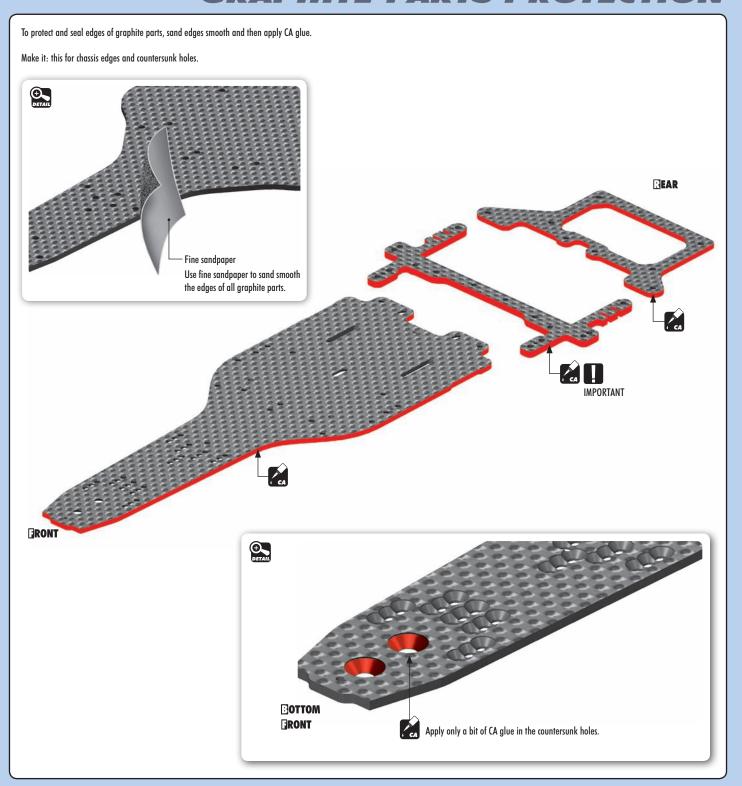
The part descriptions are color-coded to make it easier for you to identify the source of a part. Here are what the different colors mean:

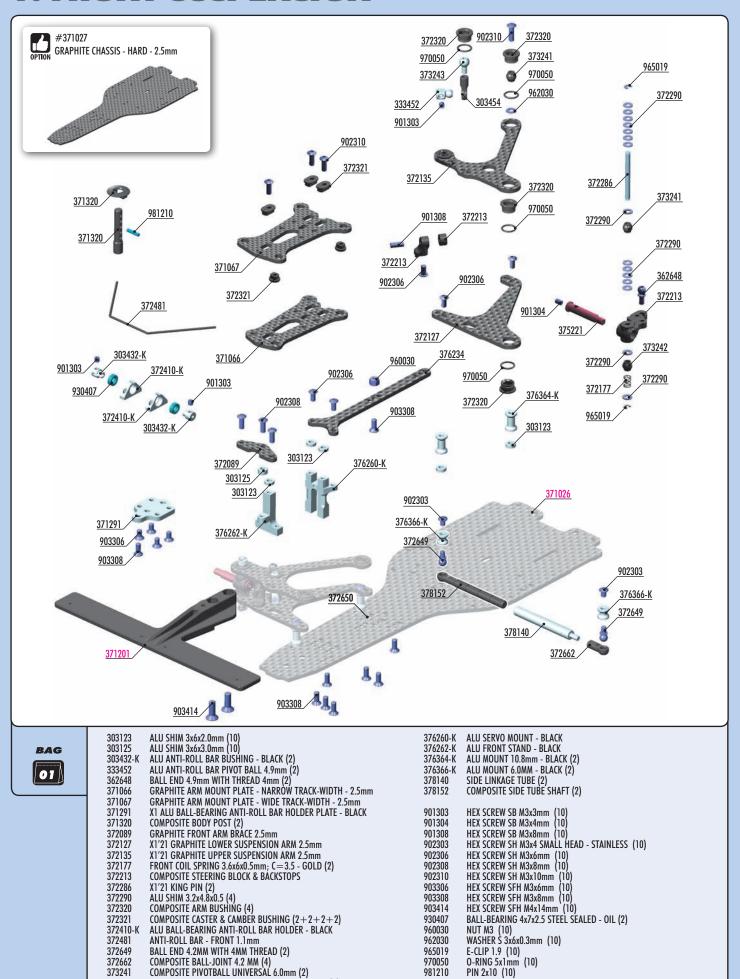
372127 STYLE A - indicates parts that are included in the bag marked for the section.

371026 STYLE B - indicates parts that are included in the box.

374901 STYLE C - indicates parts that are already assembled from previous steps.

GRAPHITE PARTS PROTECTION





981210

371026 371201

PIN 2x10 (10)

X1'21 GRAPHITE CHASSIS 2.5mm X1 COMPOSITE FRONT BUMPER

373241

373242

373243 375221

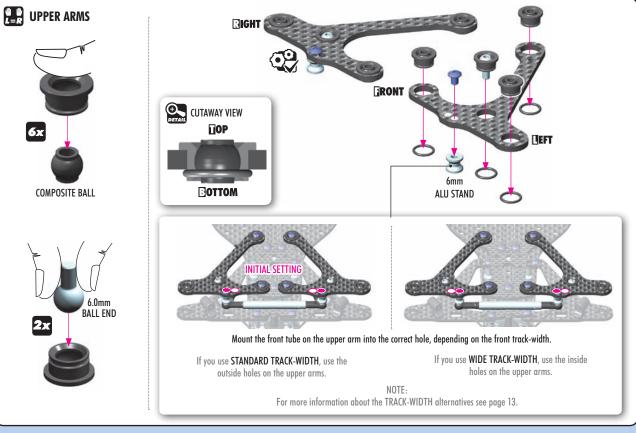
376234

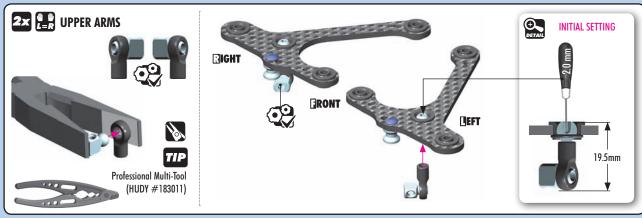
COMPOSITE PIVOTBALL UNIVERSAL 6.0mm - SHORT (2)

BALL END 6.0mm WITH THREAD 4mm (2) FRONT WHEEL AXLE - HUDY SPRING STEEL™ (2)

GRAPHITE TOP DECK 2.5mm







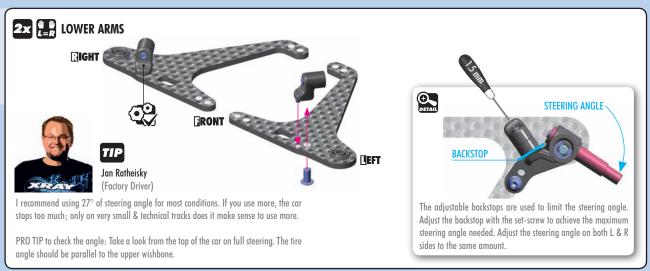


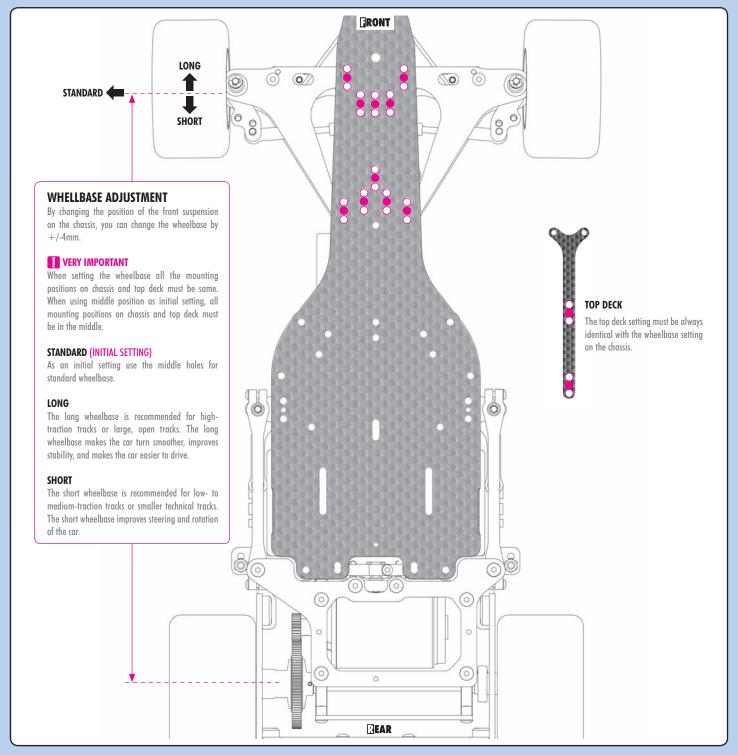








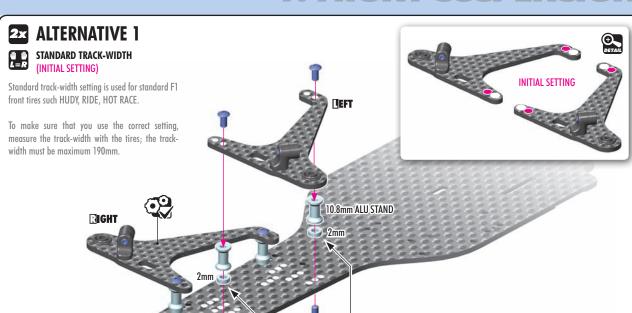








903308

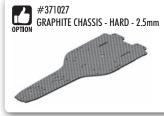




These shims adjust the roll-center of the front bottom arm as well as the front ride height. The thickness of the shim depends on the tire diameter. For initial setting, use the 3x6x2mm shim.

IMPORTANT!

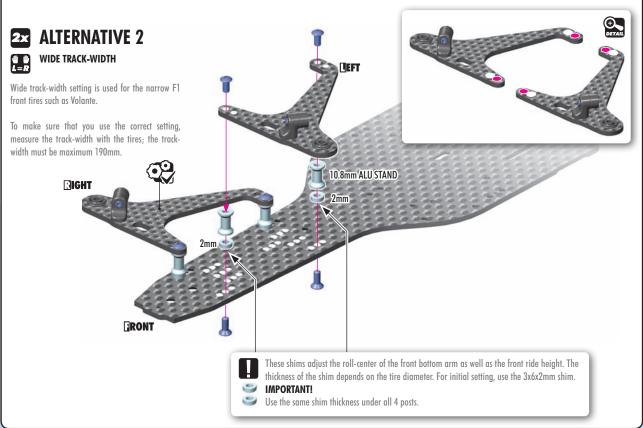
Use the same shim thickness under all 4 posts.

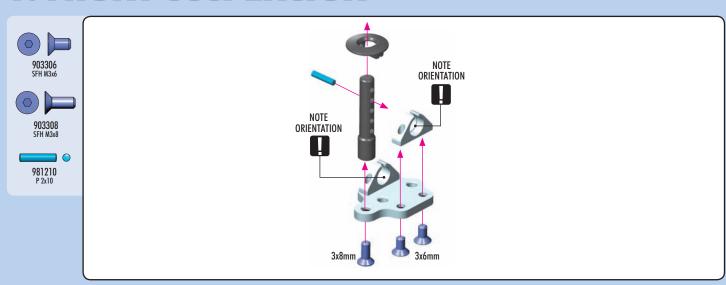


RONT

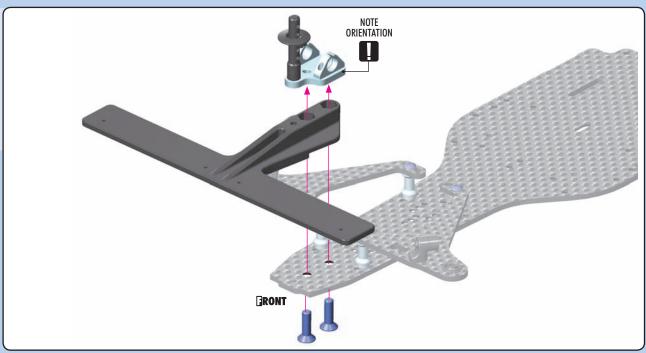
The 2.5mm chassis made from harder graphite material was developed for very-high traction conditions, or when using tires that offer a lot of steering which makes the car more difficult to drive. This chassis makes the car more stable and easier to drive, and eliminates oversteering.

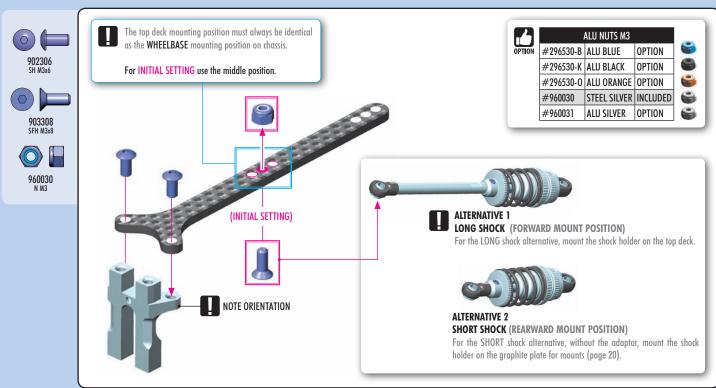




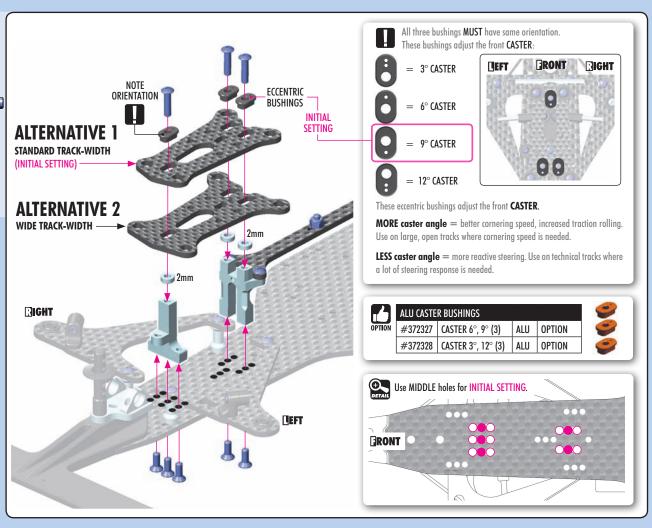










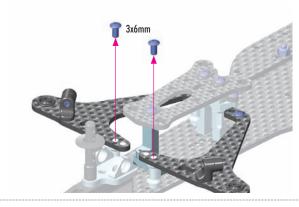


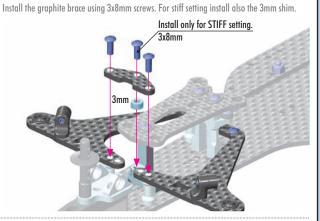




You can install a lower arm brace to increase steering response.

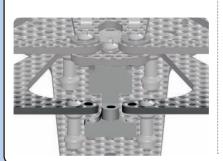
CTEP





SOFT - WITHOUT THE BRACE (INITIAL SETTING)

The car will have less initial steering. Recommended for high- and very-high-traction carpet tracks where the car needs to be easy to drive and less responsive.



MEDIUM - WITH BRACE

Improves in-corner steering but still keeps the car easy to drive. Recommended for medium-high traction carpet tracks and high-traction asphalt tracks.

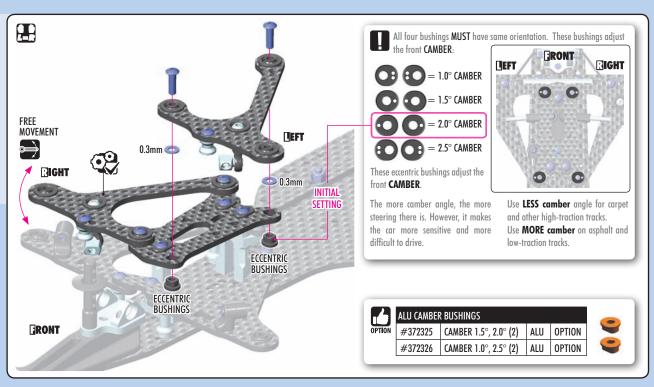


STIFF - WITH BRACE AND CONNECTED TO ALU FRONT STAND

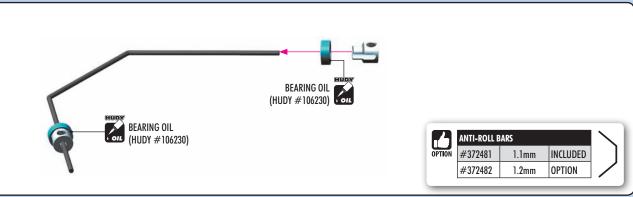
Provides maximum steering response. Recommended for low-medium traction carpet tracks and for all different traction conditions on asphalt tracks.

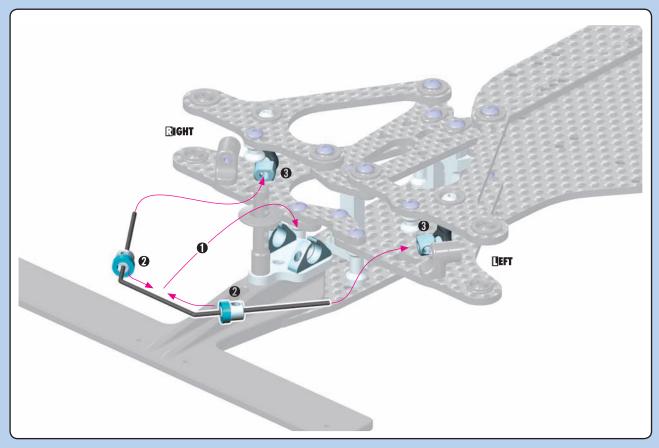




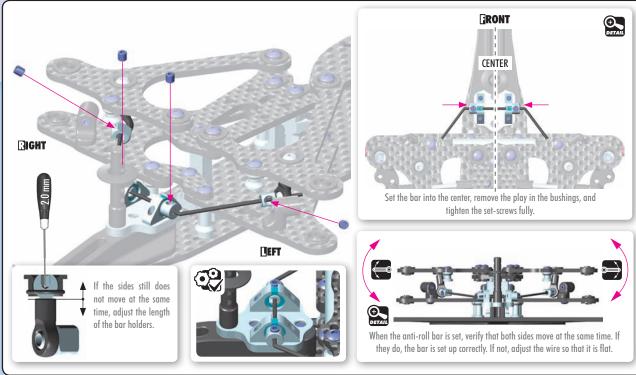


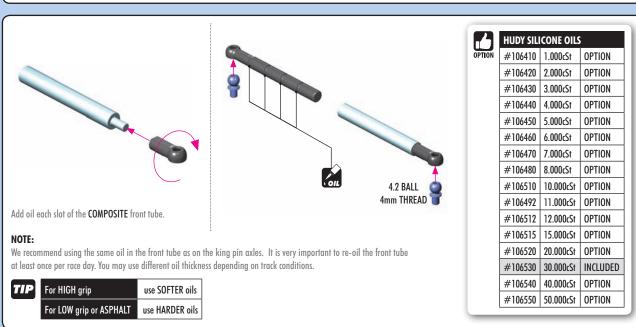


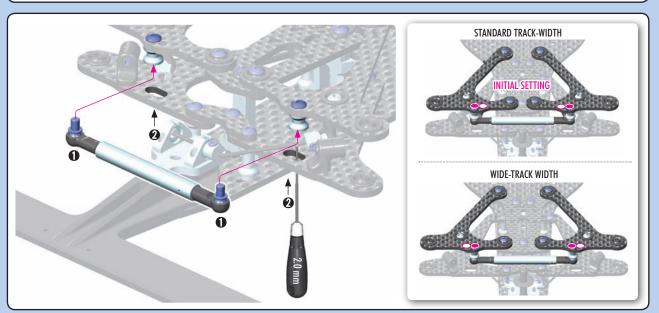








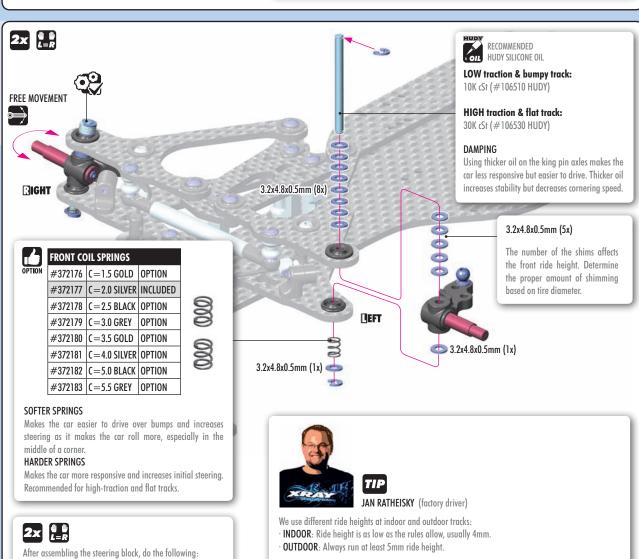






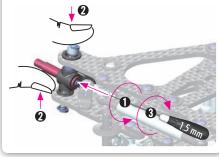








- 1. Loosen the set-screw slightly.
- 2. Use your thumb to press down on the top of the kingpin, while using your other fingers to pull up the steering block.
- 3. Tighten the set-screw.



Rear ride height should always be 0.1-0.2mm higher than the front.

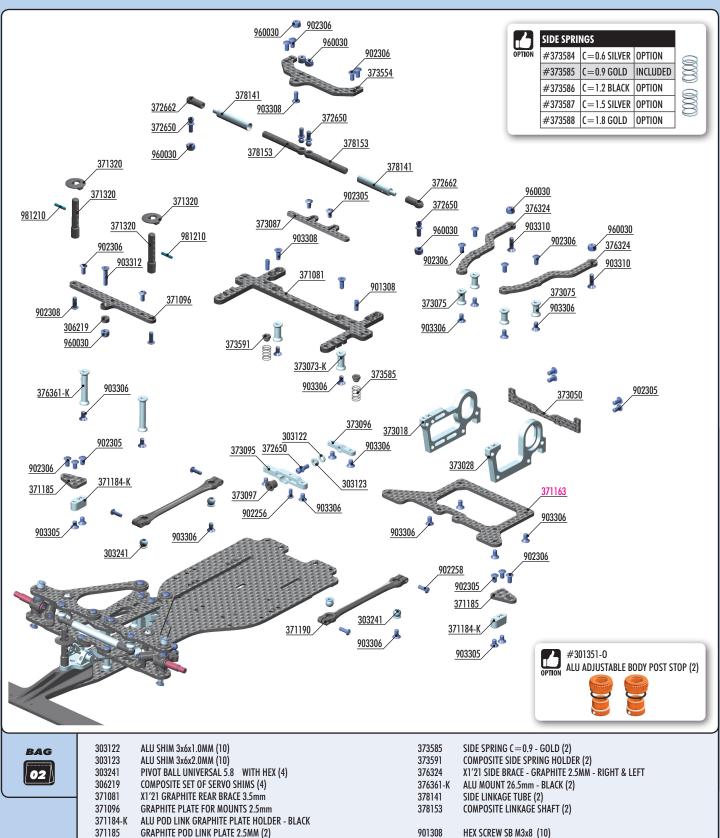
I recommend changing droop using the upper shims on the kingpin, but note that this also changes the ride height by the same amount. Adding +0.5mm shim means 0.5mm less droop because the spring gets more preload which results in a higher ride height. In that case, you should add the same amount (0.5mm) under the lower wishbone.

DROOP SETTING

I recommend using a small amount of droop for carpet tracks, somewhere between 0.5-1mm to get the most on-power steering in combination with solid reactive steering.

You should use more droop for asphalt tracks. At least 1mm up to 2mm. The more droop, the more on-power rear traction you get because of weight transfer to the rear. It also helps to get a more smoothto-drive car at corner entry.

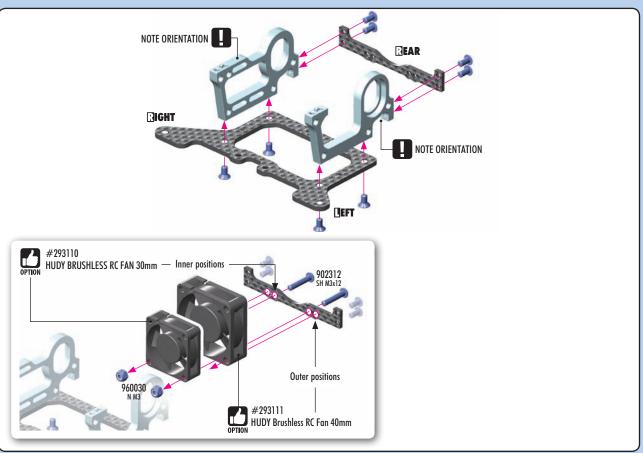




COMPOSITE POD LINK (2) HEX SCREW SH M2.5x6 (10) 371190 902256 COMPOSITE BODY POST (2) HEX SCREW SH M2.5x8 (10) 371320 902258 372650 BALL END 4.2MM WITH 6MM THREAD (2) 902305 HEX SCREW SH M3x5 (10) 902306 HEX SCREW SH M3x6 (10) 372662 COMPOSITE BALL-JOINT 4.2 mm (4) X1'21 ALU REAR BULKHEAD - MOTOR (RIGHT) 902308 HEX SCREW SH M3x8 (10) 373018 HEX SCREW SFH M3x5 (10) 903305 373028 X1'21 ALU REAR BULKHEAD - LEFT HEX SCREW SFH M3x6 (10) 373050 **GRAPHITE REAR BULKHEAD BRACE 2.0mm** 903306 373073-K 903308 HEX SCREW SFH M3x8 (10) ALU REAR BRACE MOUNT 13mm - BLACK (2) 903310 HEX SCREW SFH M3x10 (10) ALU REAR BRACE MOUNT 10.5MM - BLACK (2) 373075 903312 HEX SCREW SFH M3x12 (10) 373087 **GRAPHITE BATTERY BACKSTOP 2.0mm** NUT M3 (10) 960030 373095 ALU CHASSIS PIVOT HOLDER - SWISS 7075 T6 373096 ALU POD PLATE PIVOT HOLDER - SWISS 7075 T6 981210 PIN 2x10 (10) 373097 COMPOSITE PIVOT BRACE BUSHING 371163 X1'21 GRAPHITE REAR POD LOWER PLATE 2.5mm 373554 X1'21 GRAPHITE REAR POD UPPER PLATE 2.5mm

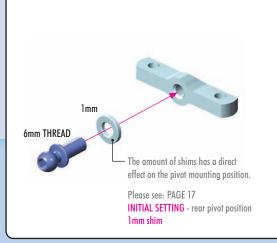
X1-21

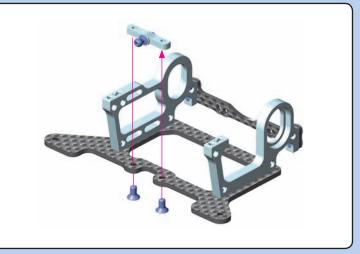




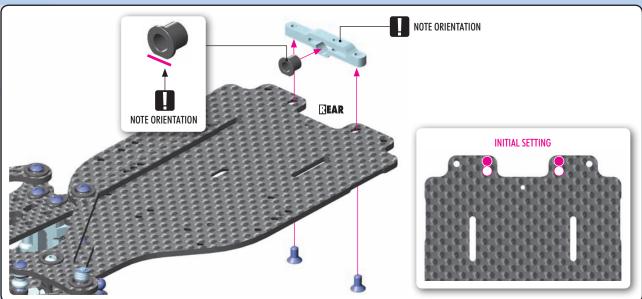


903306 SFH M3x6

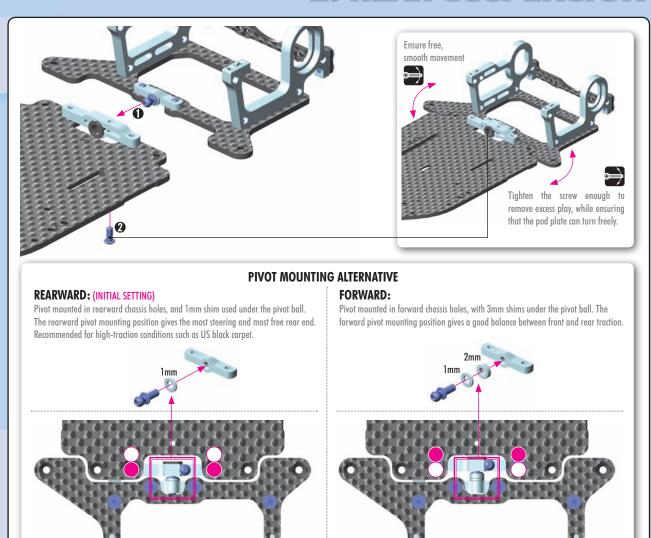










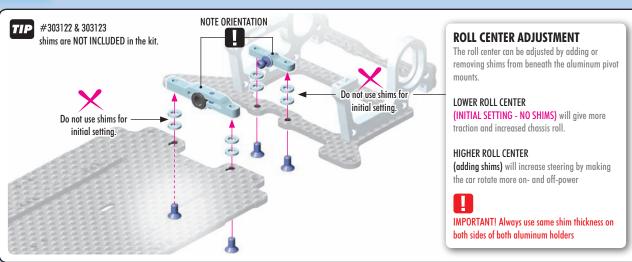




303122

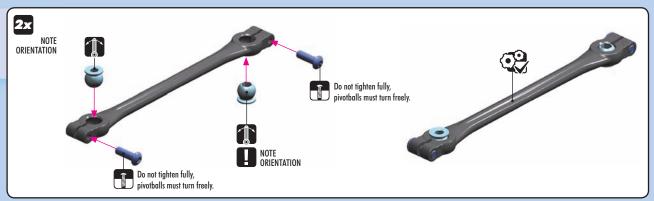


303122

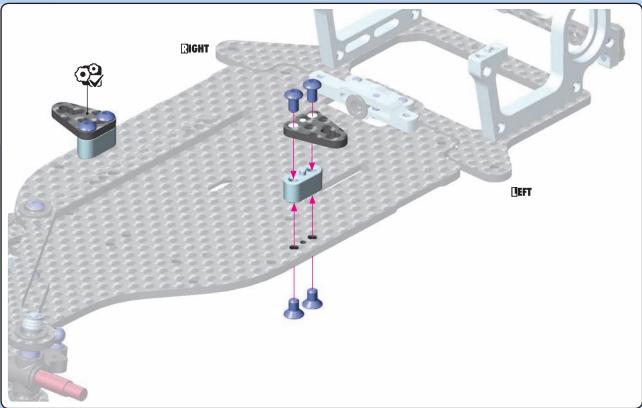




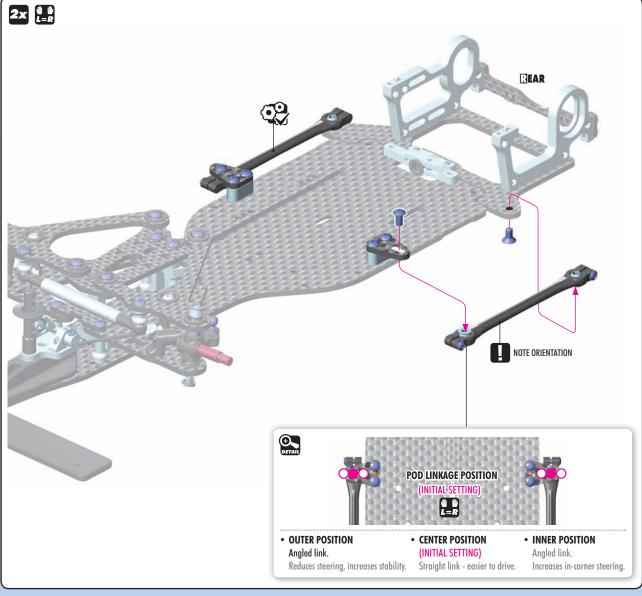


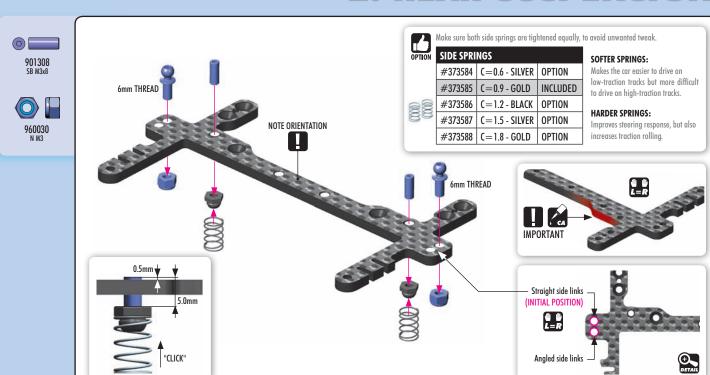


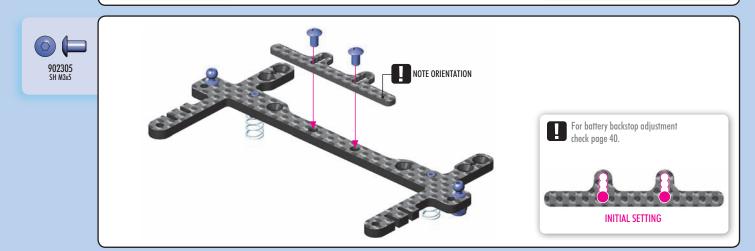


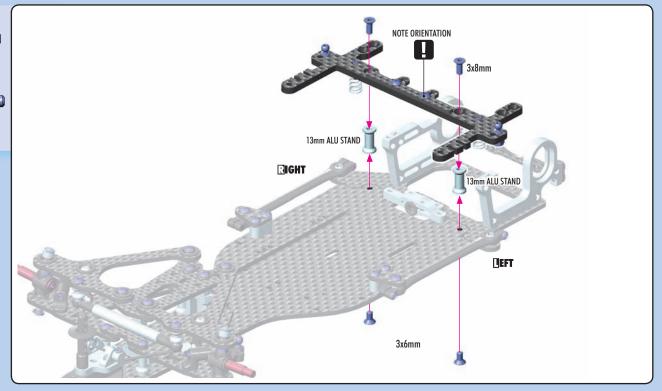












X1121

903306 SFH M3x6

903308 SFH M3x8

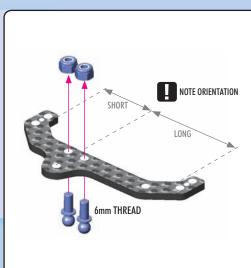


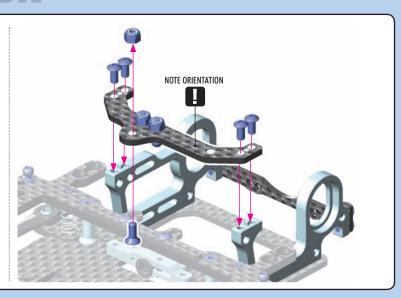














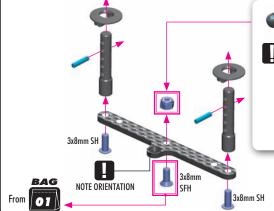








981210 P 2x10



ALTERNATIVE 2 SHORT SHOCK (REARWARD MOUNT POSITION)

For the SHORT shock alternative, without the adaptor, mount the shock holder on the graphite plate for body mounts. See page 31.



Very handy, easily externally-adjustable body post made from Swiss 7075 T6 aluminum. Allows for adjustment of body height by 3mm without needing to change the position on the body post.









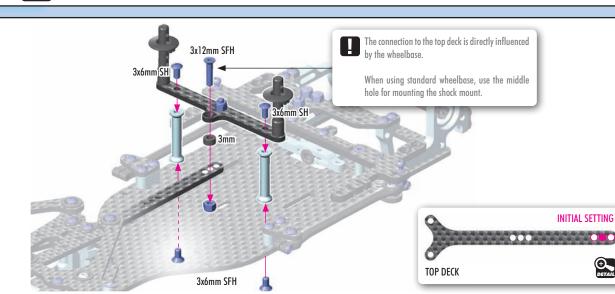






903312 SFH M3x12

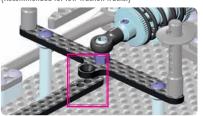




SOFT IN-LINE FLEX™

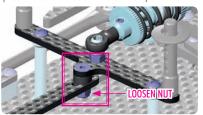
The Soft In-Line Flex $^{\scriptscriptstyle\mathsf{TM}}$ setting without the top deck allows both in-line & side flex for increased mid-corner steering.

(Recommended for low-traction tracks.)



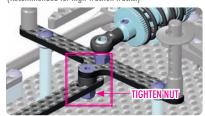
MEDIUM IN-LINE FLEX™

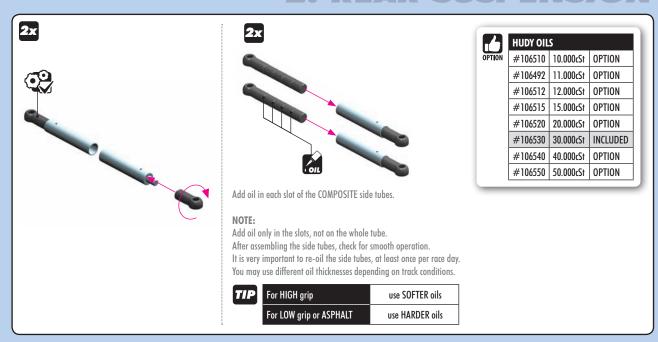
The Medium In-Line Flex $^{\scriptscriptstyle\mathsf{TM}}$ setting with a loosened nut generates a medium amount of in-line flex for a slightly decreased steering response but improved mid-corner steering and a better on-off power feeling. (Recommended for medium-traction tracks.)

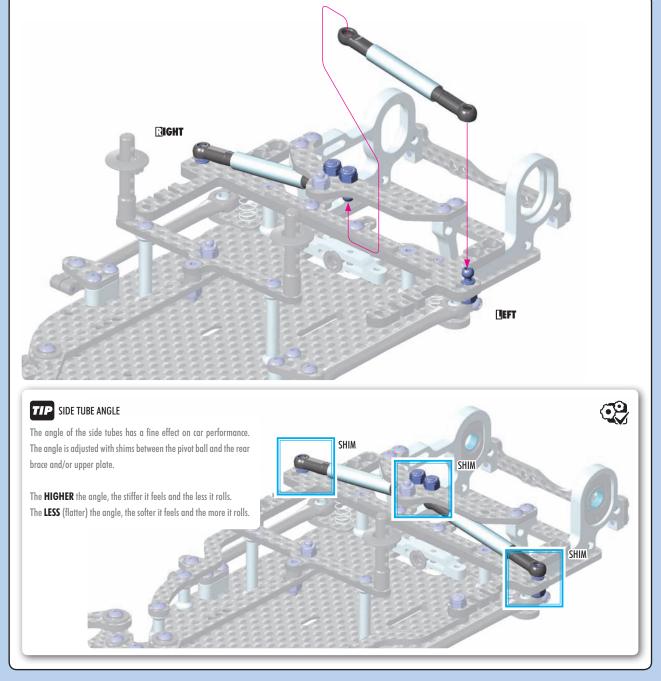


STIFF IN-LINE FLEX™

The Stiff In-Line Flex $^{\scriptscriptstyle\mathsf{TM}}$ setting with a tightened nut eliminates the in-line flex of the chassis and increases steering response, making the car more precise and forgiving.





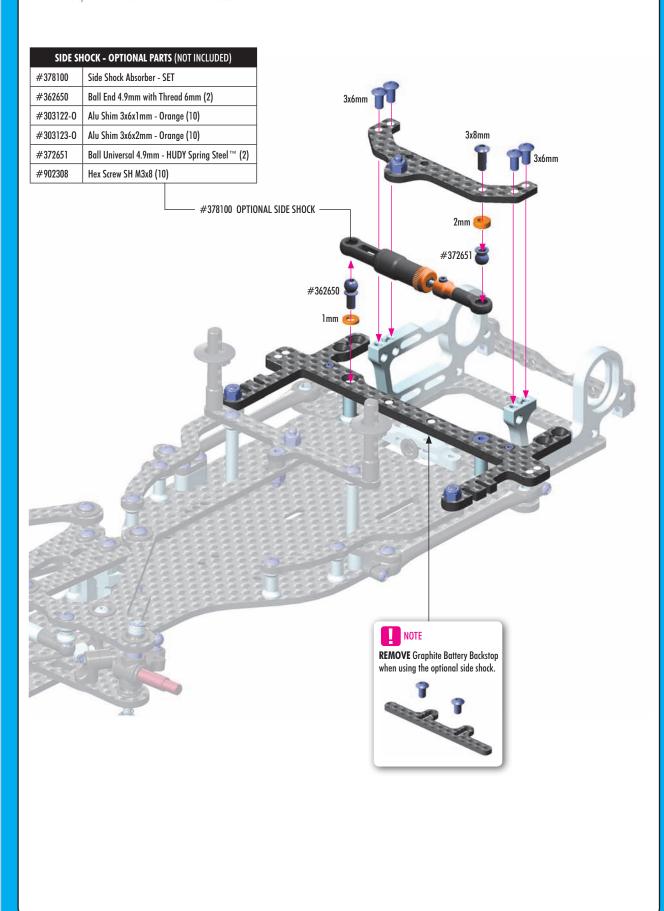


OPTIONAL SIDE SHOCK

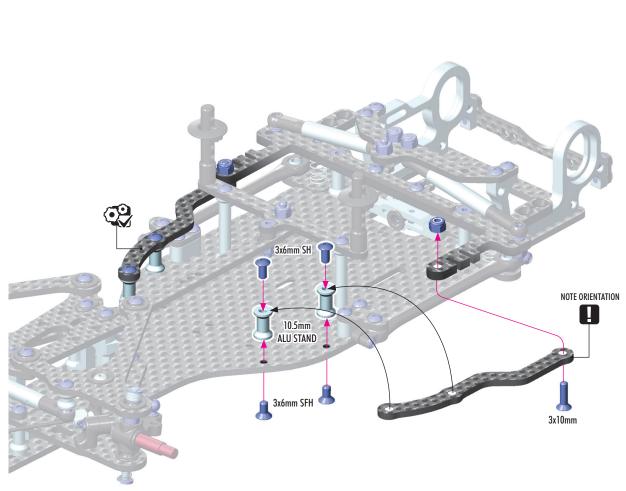


#378100

Optional side shock can be used to improve traction in low- and medium-traction conditions. The optional side shock REPLACES the 2 side tubes.







CHASSIS FLEX ADJUSTMENT



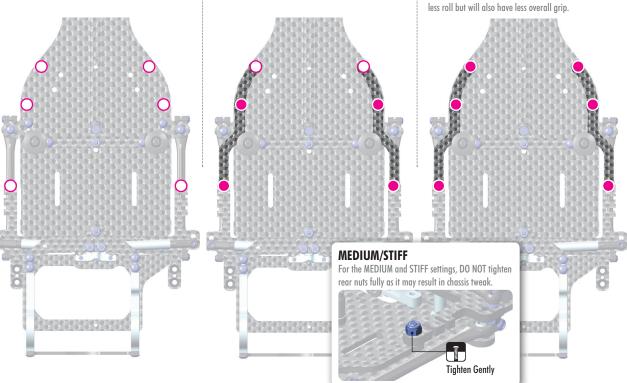
Generates more mechanical grip. Recommended for low-to medium-traction carpet as well as asphalt.

MEDIUM

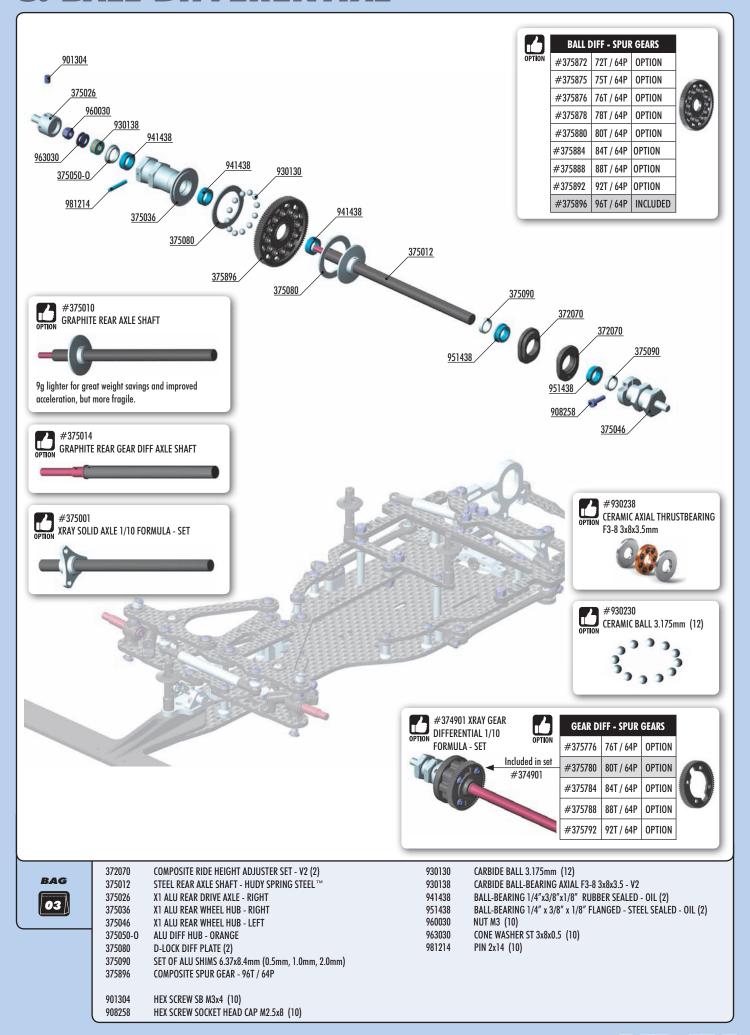
Braces installed, attached at middle & rear only. This setting is a good compromise between mechanical grip and steering response. Ideal for most conditions.

STIFF

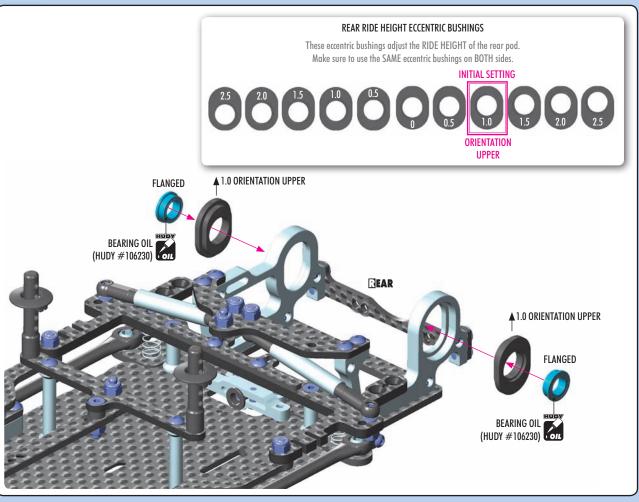
Braces installed, attached at front, middle, and rear. This is the stiffest, most stable setting. Recommended for high-traction carpet (such as US black carpet). The car will have less roll but will also have less overall arin.

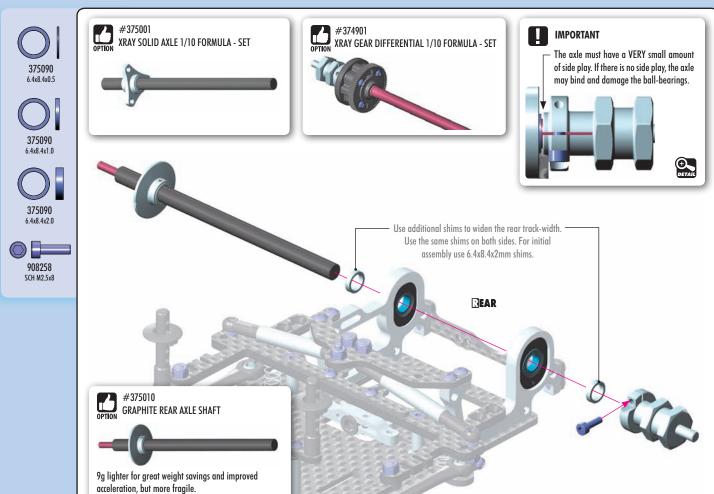


3. BALL DIFFERENTIAL

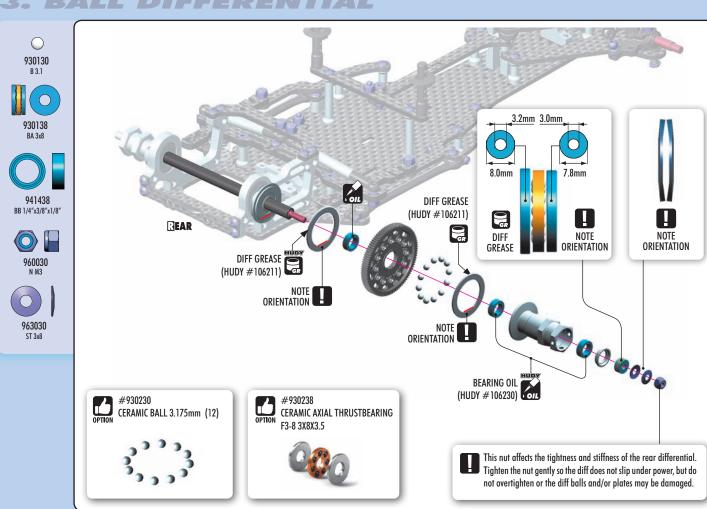


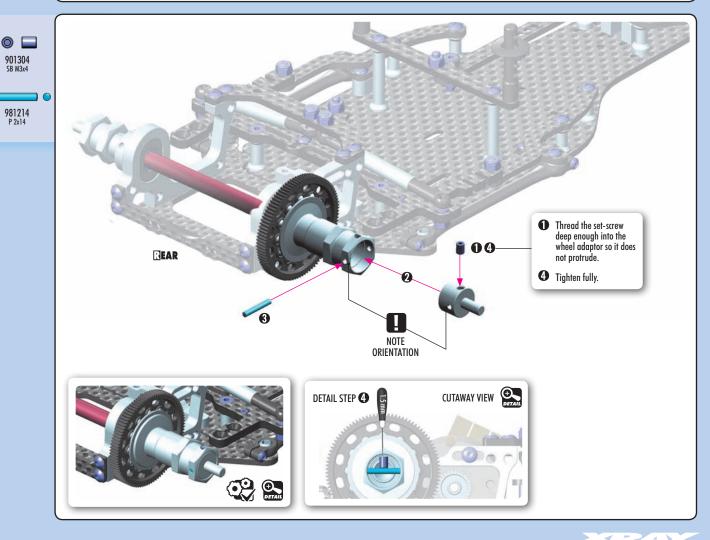






3. BALL DIFFERENTIAL

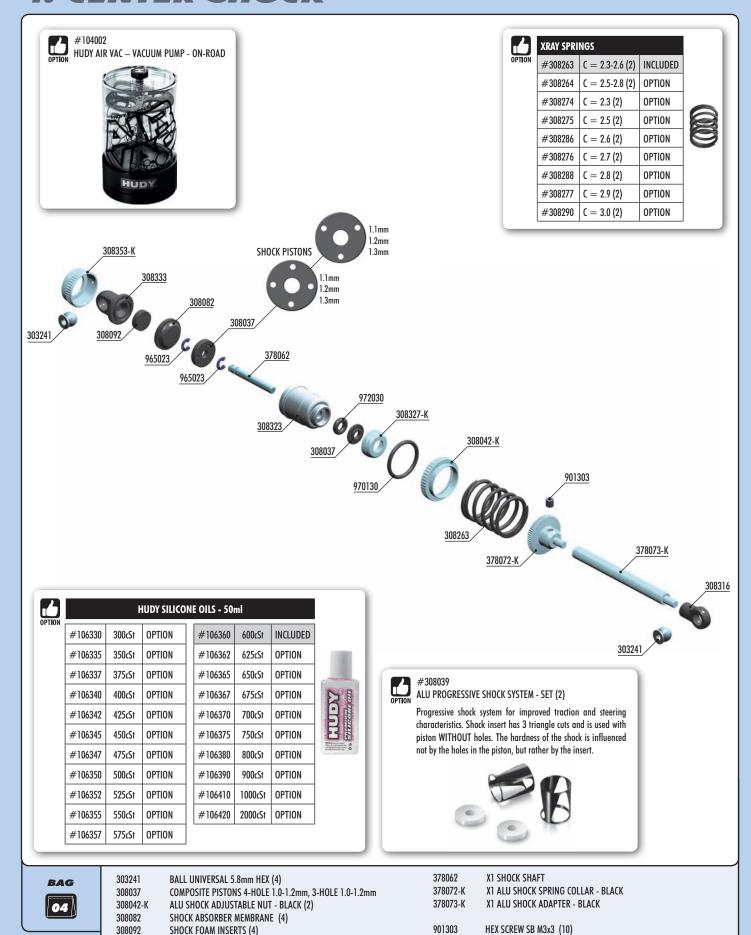




SB M3x4

P 2x14

4. CENTER SHOCK



E-CLIP 2.3 (10)

0-RING 13 x 1.5 (10)

SILICONE O-RING 3 x 2 (10)

965023

970130

972030

X1'21

308316

308323

308333 308353-K

308263

308327-K

SHOCK BALL JOINT - OPEN (4)

ALU CAP FOR XRAY SHOCK BODY - BLACK COMPOSITE SHOCK PARTS FOR ALU SHOCKS

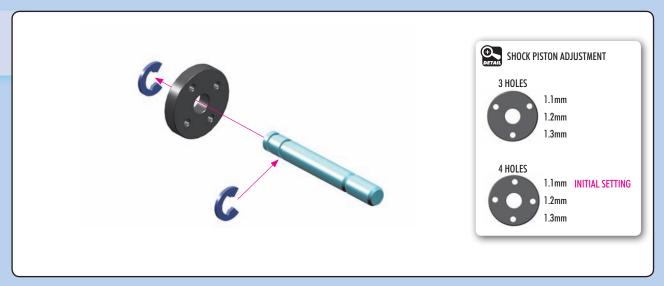
ALU SHOCK CAP-NUT WITH VENT HOLE - BLACK (2)

XRAY 4S SPRING-SET PROGRESSIVE C=2.3-2.6 (2)

ALU XRAY SHOCK BODY (2)

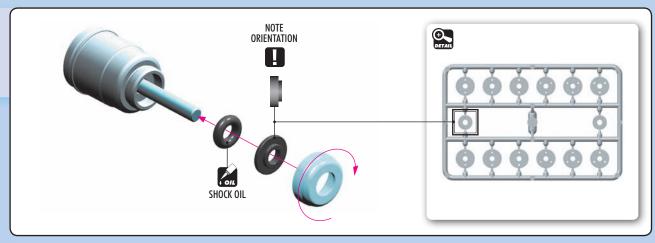
4. CENTER SHOCK



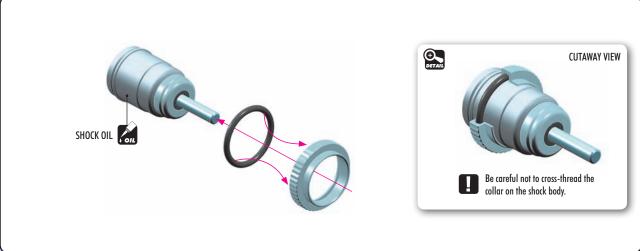












SHOCK FILLING

SOFTER OIL

Recommended for bumpy and low-traction tracks, generates more traction.

HARDER OIL

Recommend for flat and high-traction tracks, improves steering response.



- 1 Fully extend the piston rod so the piston is at the bottom of the shock body.
- 2 Hold the shock upright and slightly overfill the shock body with shock oil.
- 3 Let the oil settle and allow air bubbles to rise to the top. Slowly move the piston up and down to allow oil into all cavities within the shock body.
- 4 Extend 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.
- 6 Add shock oil as necessary.







To make sure that all the air is removed from the shock oil, we recommend using the HUDY Air Vac.

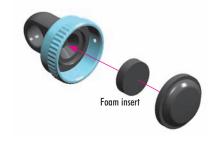
TIP



Ň.			
	#106330	300cSt	OPTION
	#106335	350cSt	OPTION
	#106337	375cSt	OPTION
	#106340	400cSt	OPTION
	#106342	425cSt	OPTION
	#106345	450cSt	OPTION
	#106347	475cSt	OPTION
	#106350	500cSt	OPTION
	#106352	525cSt	OPTION
	#106355	550cSt	OPTION
	#106357	575cSt	OPTION
	#106360	600cSt	INCLUDED
	#106362	625cSt	OPTION
	#106365	650cSt	OPTION
	#106367	675cSt	OPTION
	#106370	700cSt	OPTION
	#106375	750cSt	OPTION
	#106380	800cSt	OPTION
	#106390	900cSt	OPTION
	#106410	1000cSt	OPTION
	#106420	2000cSt	OPTION

HUDY SILICONE OILS - 50ml







that it is fully seated inside the alu cap.



- body, some oil will leak out... this is normal.
- 2 Tighten the cap and clean off any excess oil.
- **3** After the shock is assembled, the shock rod will push itself out of the shock body fairly quickly.
- 4 Follow the next procedure to adjust the rebound.



RELEASE 2-3 turns TIGHTEN FULLY TO THE PROPERTY OF THE PROPE

AFTER THE SHOCK IS ASSEMBLED YOU HAVE TO SET THE SHOCK REBOUND:

- Release the shock cap by 2-3 turns.
- Push the shock shaft fully up. For the first time the extra oil will release through the hole in the alu cap-nut.
- Tighten the shock cup. When tightening the shock cap, extra oil will again release through the hole in the alu cap - nut. When tightening, the shock shaft will push out from the shock body.

REBOUND CHECK



REBOUND CHECK:

It is very important to push the shock shaft into the shock body slowly otherwise air can come into the shock body which would create bubles.

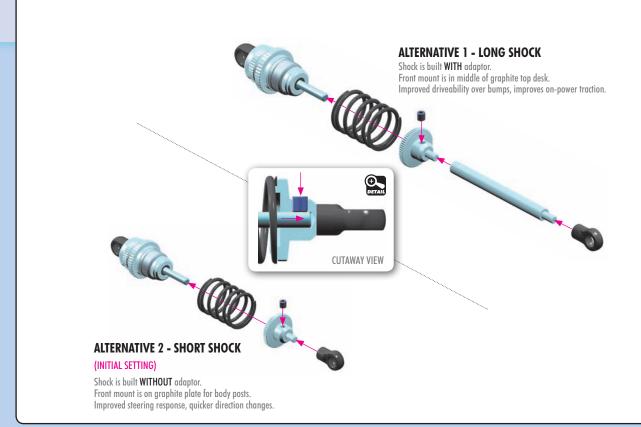
100% rebound - do not do step 2 and 3

75% rebound - repeat steps 1 to 3 until the shock shaft will push out 75% of its length
50% rebound - repeat steps 1 to 3 until the shock shaft will push out 50% of its length
25% rebound - repeat steps 1 to 3 until the shock shaft will push out 25% of its length
0% rebound - repeat steps 1 to 3 until the shock shaft will push out 0% of its length

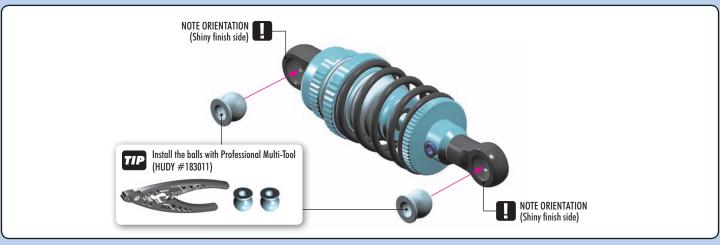
If the shock shaft does not rebound enough, you will have to refill the shock with shock oil, and then repeat the bleeding and rebound adjustment procedure.

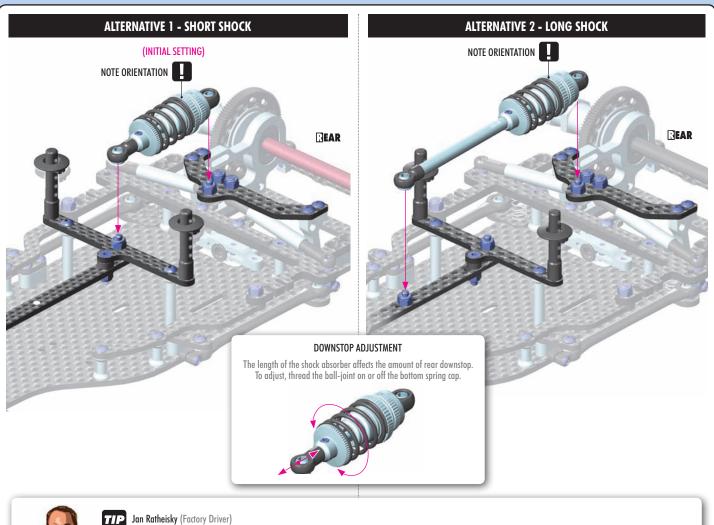


An innovative new feature is to change the center shock length (and front mounting position). By using longer or shorter shock, the damping and steering can be changed.



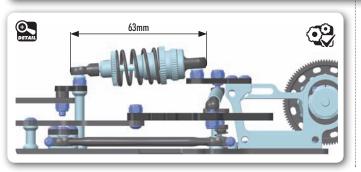
4. CENTER SHOCK

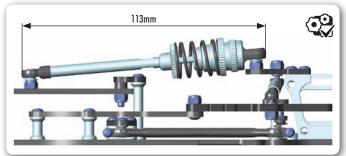


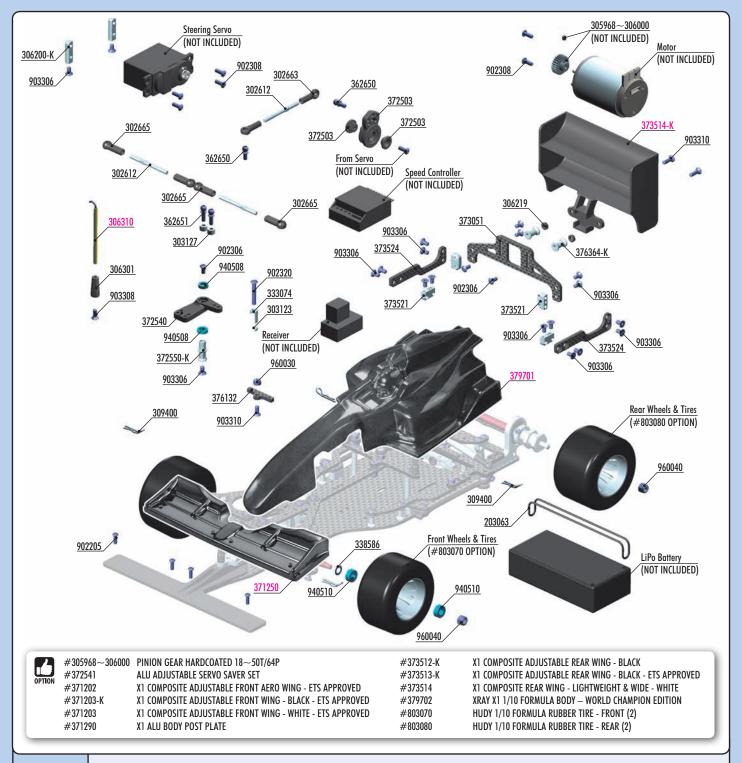




Set the ride height for your track and measure it at the link connection of the side pod. Lift the car on the rear part of the center shock. When you unload the shock fully, you can measure the height at the same spot again. The difference to the ride height is the droop amount. The set-up of the rear downstop is very important to find a good balance between traction and rotation. On both indoor and outdoor tracks, I recommend starting with 1mm droop. Less droop gives you more rear traction. Recommended for low-traction conditions. More droop frees up the rear and makes it looser, but results in more steering. You should not use more than 2.5mm rear droop at maximum.

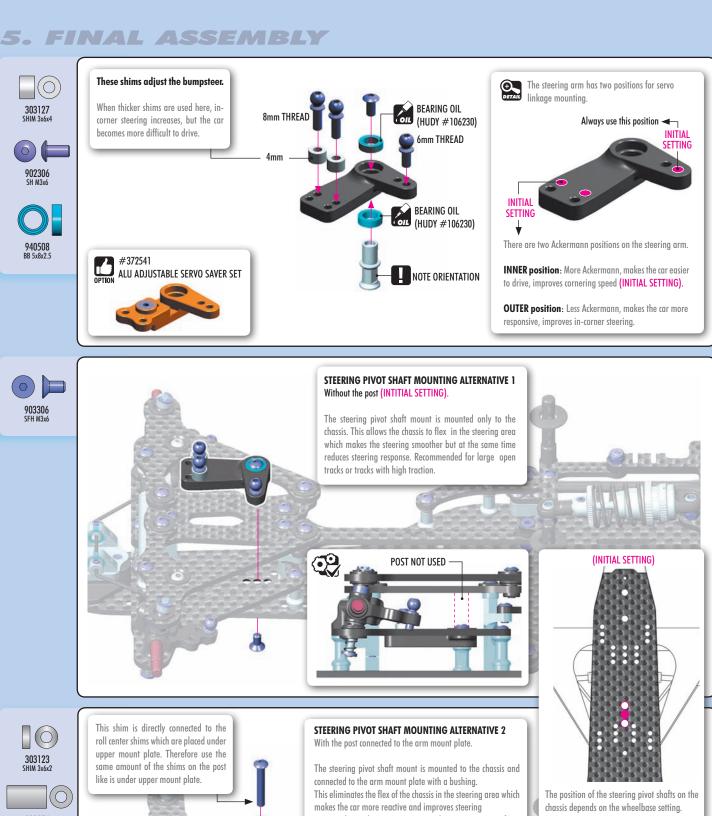




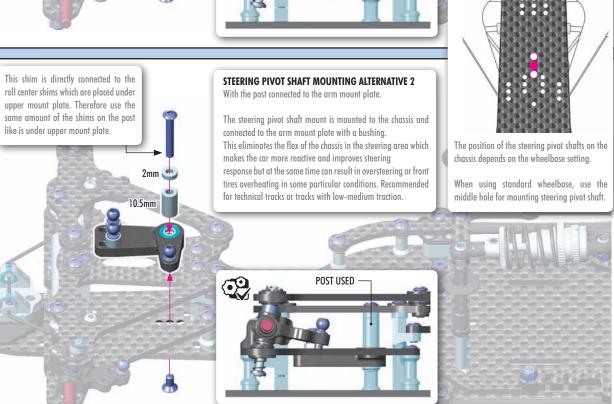




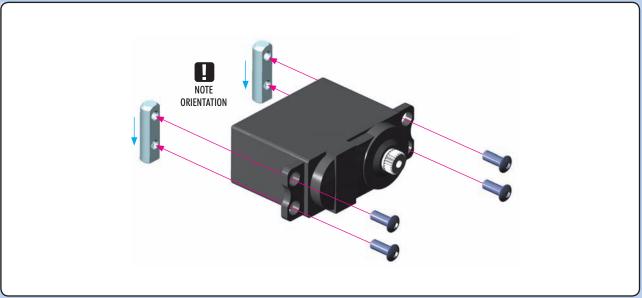
302612	ALU ADJ. TURNBUCKLE M3 L/R 39 mm - SWISS 7075 T6 (2)		ALU MOUNT 10.8mm - BLACK (2)
302663	COMPOSITE BALL JOINT 4.9mm - OPEN - V2 (8)		
302665	COMPOSITE BALL JOINT 4.9mm - CLOSED WITH HOLE (4)	203063	O-RING FOR 1/8 ON-ROAD SET-UP WHEEL (4)
303123	ALU SHIM 3x6x2.0mm (10)		SHIM 5x7x0.5 (10)
303127	ALU SHIM 3x6x4.0mm (10)	902205	HEX SCREW SH M2x5 (10)
306200-K	ALU SERVO MOUNT - BLACK (2)	902306	HEX SCREW SH M3x6 (10)
306219	COMPOSITE SET OF SERVO SHIMS (4)		HEX SCREW SH M3x8 (10)
306301	ANTENNA MOUNT - THIN		HEX SCREW SH M3x20 (10)
309400	BODY CLIP (8)	903306	HEX SCREW SFH M3x6 (10)
333074	ALU MOUNT 3x6x10.5mm (2)	903308	HEX SCREW SFH M3x8 (10)
362650	BALL END 4.9mm WITH THREAD 6mm (2)	903310	HEX SCREW SFH M3x10 (10)
362651	BALL END 4.9mm WITH THREAD 8mm (2)	940508	BALL-BEARING 5x8x2.5 RUBBER SEALED - OIL (2)
372503	COMPOSITE SERVO SAVER - X-STIFF - SET - V2	940510	BALL-BEARING 5x10x4 RUBBER SEALED - OIL (2)
372540	COMPOSITE STEERING ARM	960030	NUT M3 (10)
372550-K	ALU STEERING PIVOT SHAFT - BLACK	960040	NUT M4 (10)
373051	GRAPHITE REAR WING MOUNT 2.5mm		
373521	ALU POST FOR INDEPENDENT WING GRAPHITE PLATES	306310	ANTENNA (2)
373524	GRAPHITE REAR WING HOLDER PLATE 2.5MM $(L+R)$	371250	X1 LEXAN FRONT SPOILER (2)
376132	GRAPHITE BATTERY BACKSTOP 3.0MM - MIDDLE	373514-K	X1 COMPOSITE REAR WING - LIGHTWEIGHT & WIDE - BLACK
		379701	XRAY X1 1/10 FORMULA BODY



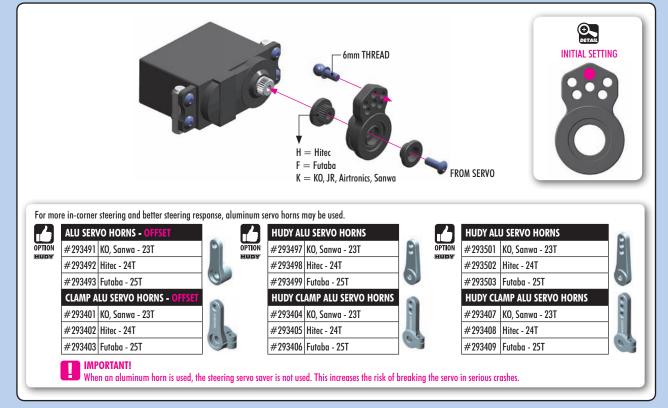




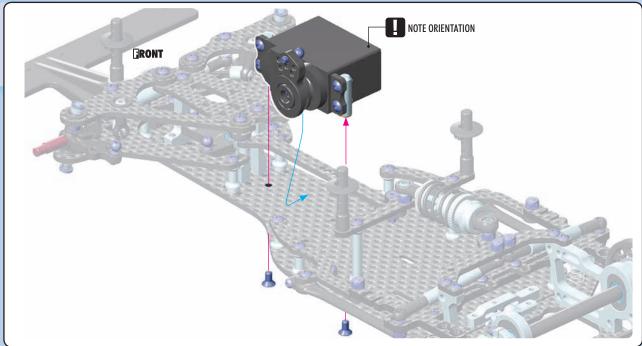


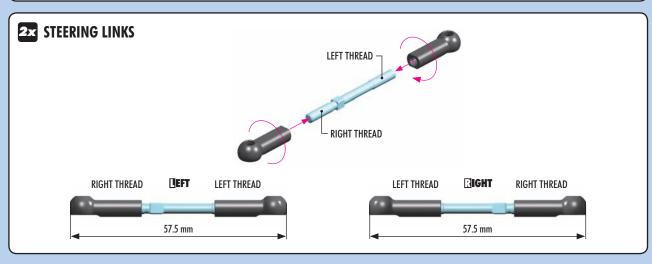


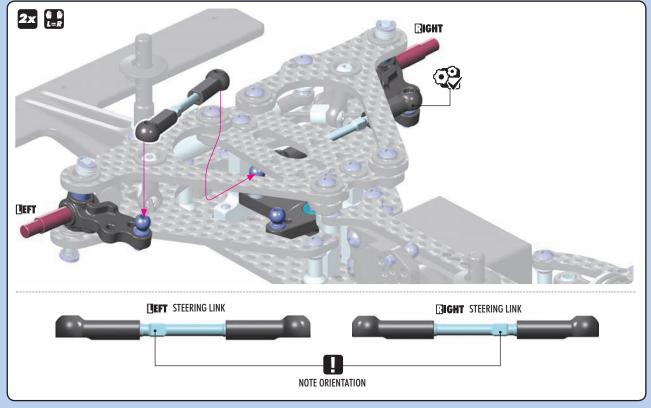


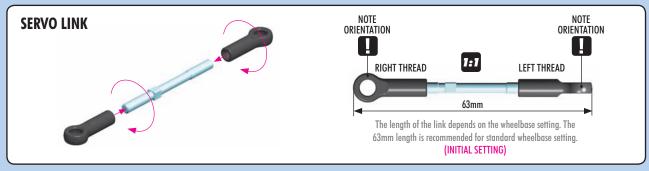


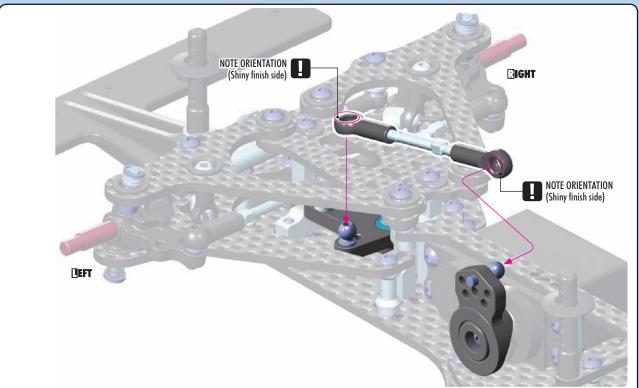




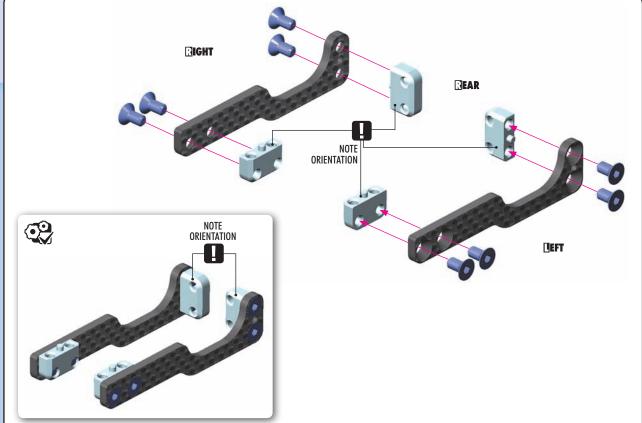




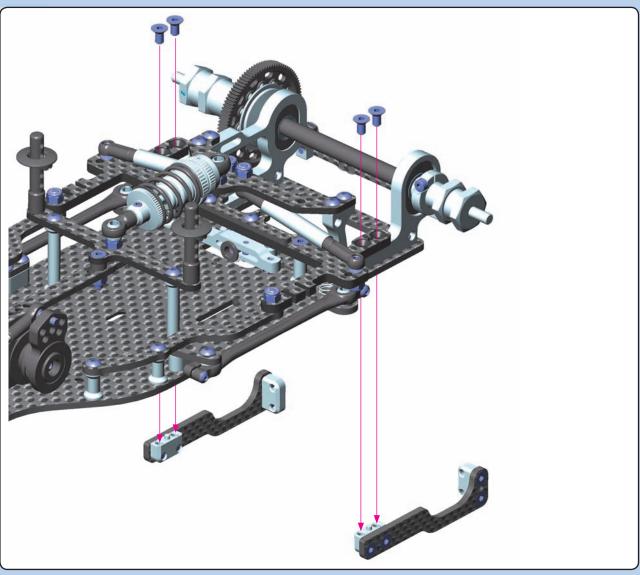




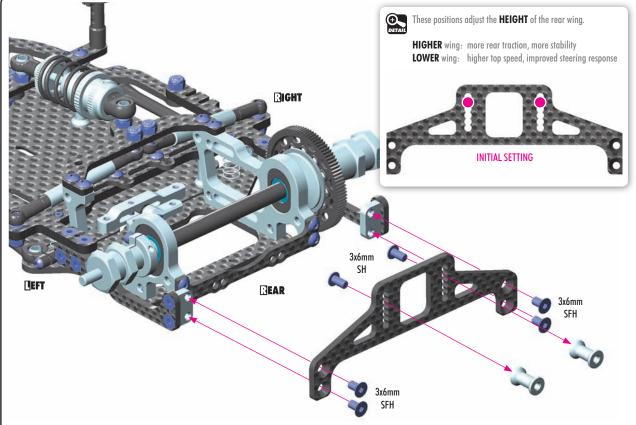




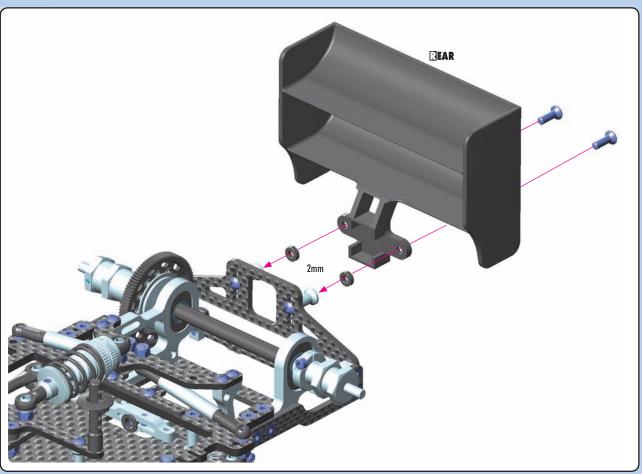




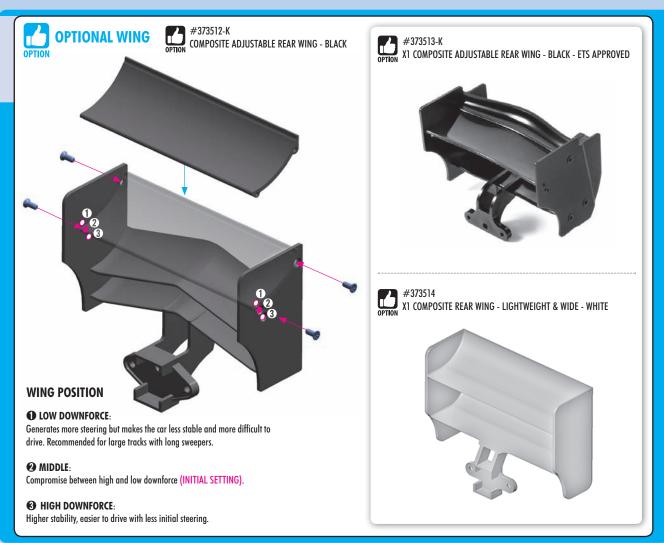




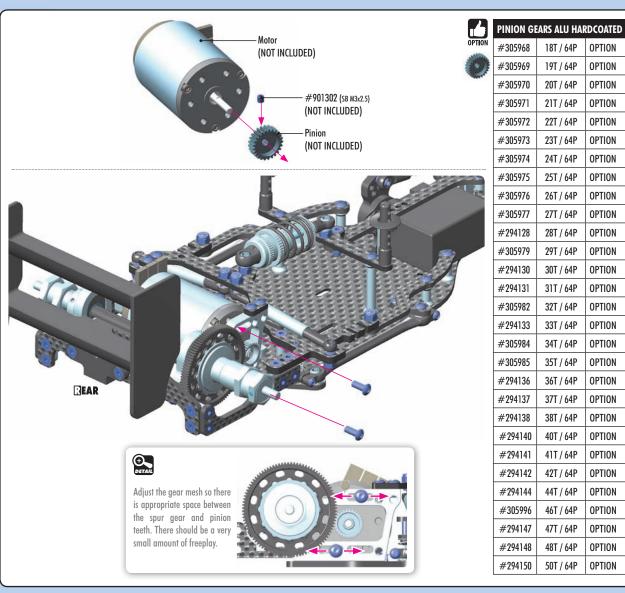




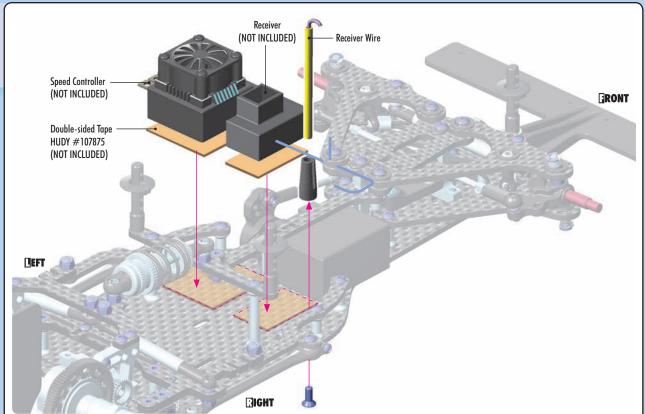












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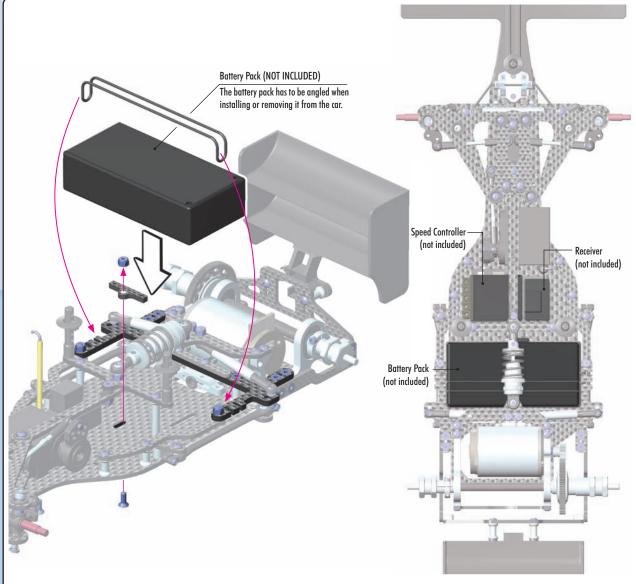
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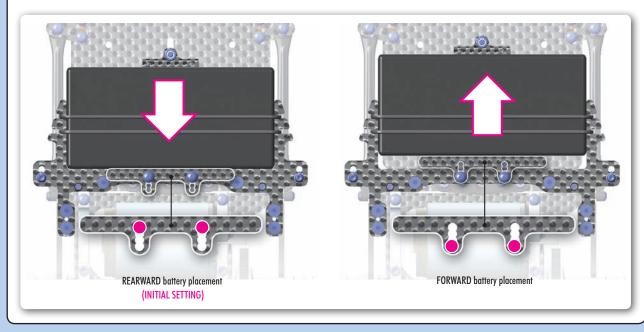
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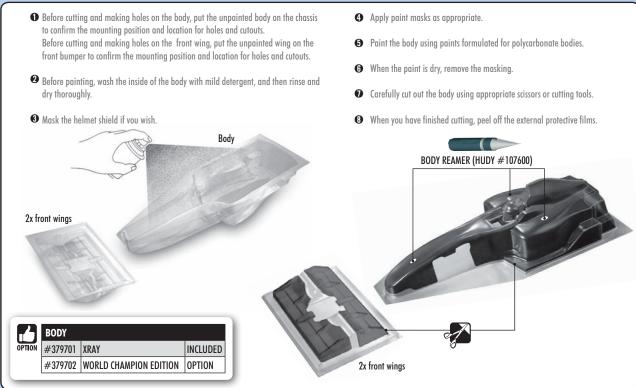


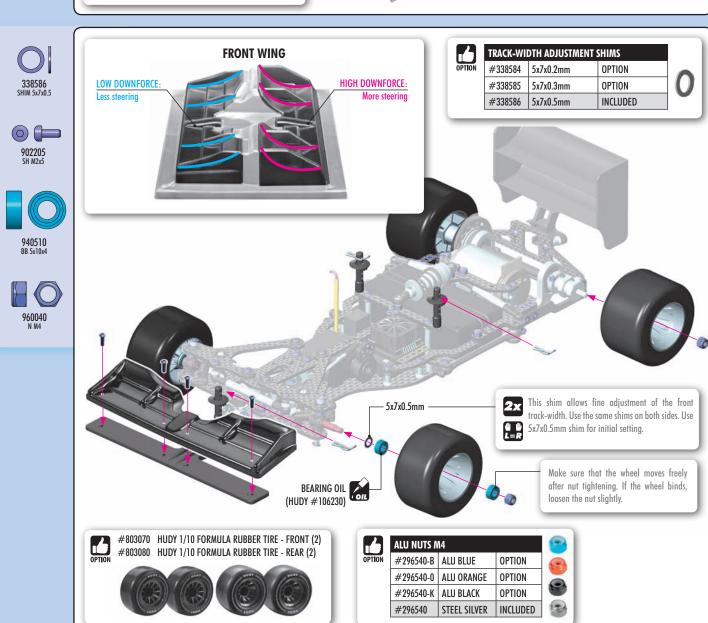


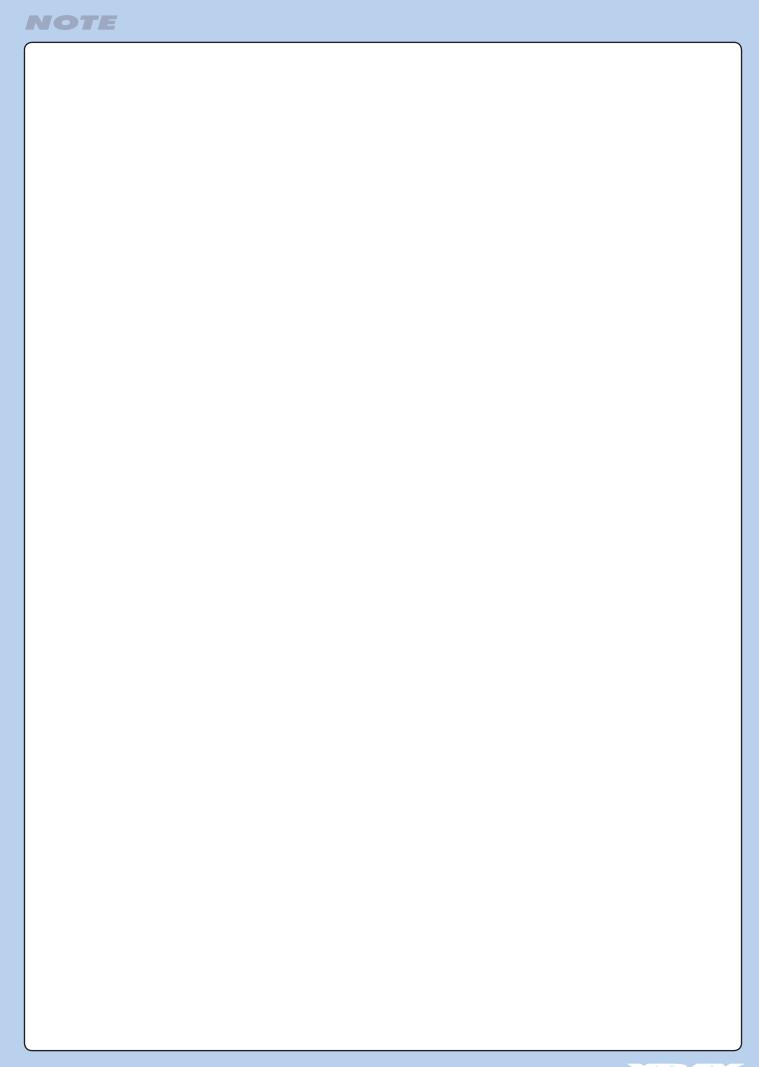
BATTERY MOUNTING POSITIONS

The X1 has 4 battery mounting positions. The more forward the battery is, the car will be easier to drive but it will be less responsive. The more rearward the battery is, the car will be more aggressive and have more steering.

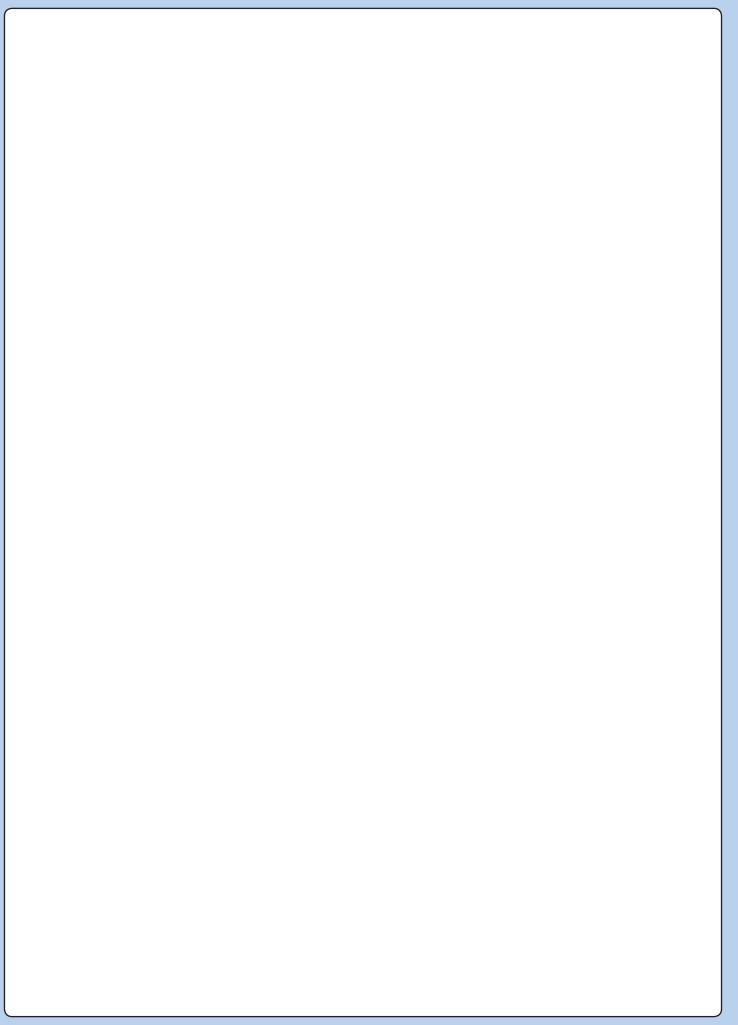












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