

BEFORE YOU START

The X1 is a high-competition, high-quality, 1/10-scale Formula 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 X1, 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 X1 is not what you wanted or expected, do not continue any further. Your hobby dealer cannot accept your X1 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 of our customers

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

www.teamxray.com

XRAY Europe

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

Phone: (800) 519-7221 * (214) 744-2400 Fax: (214) 744-2401

E-mail: xray@rcamerica.com

Failure to follow these instructions will be considered as abuse and/or neglect.

SAFETY PRECAUTIONS

Contains:

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

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

CAUTION: CANCER HAZARD

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

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

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

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



🔼 IMPORTANT NOTES - GENERAL

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

- · Keep the wheels of the model off the ground when checking the operation of the radio equipment.
- Disconnect the battery pack before storing your model.
- When learning to operate your model, go to an area that has no obstacles that can damage your model if your model suffers a collision.
- Remove any sand, mud, dirt, grass or water before putting your model 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.

DEFR AV

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 shortcircuits, approximately 300W of electricity can be discharged, leading to fire or burns. Never disassemble battery or cut battery cables.
- Use a recommended charger for the receiver and transmitter batteries and follow the instructions correctly. Over-charging, incorrect charging, or using inferior chargers can cause the batteries to become dangerously hot.

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

R/C & BUILDING TIPS

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

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

WARRANTY

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

Due to the high performance level of this model car you will need to periodically maintain and replace consumable components. Any and all warranty coverage will not cover replacement of any part or component damaged by neglect, abuse, or improper or unreasonable use. This includes but is not limited to

damage from crashing, chemical and/or water damage, excessive moisture, improper or no maintenance, or user modifications which compromise the integrity of components. Warranty will not cover components that are considered consumable on RC vehicles. XRAY does not pay nor refund shipping on any component sent to XRAY or its distributors for warranty. XRAY reserves the right to make the final determination of the warranty status of any component or part.

Limitations of Liability

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

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

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

All rights reserved.

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

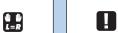




Assemble in the specified order









Assemble as many times as specified (here twice)



Cut off remaining material











Apply oil





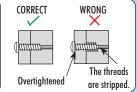














TOOLS REQUIRED







Combination Pliers (HUDY #189020)



Side Cutters (HUDY #189010)



Hobby Knife



Turnbuckle Wrench 4mm (HUDY #181040)



Reamer (HUDY #107600) or (HUDY #107601)



EQUIPMENT INCLUDED





NOT INCLUDED

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 part is included in the kit while all other parts are available only as optional parts and must be purchased separately.

EQUIPMENT REQUIRED

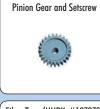
Receiver





















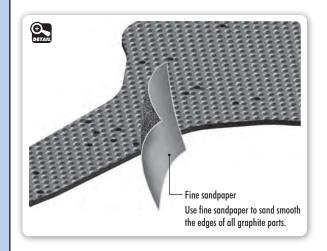


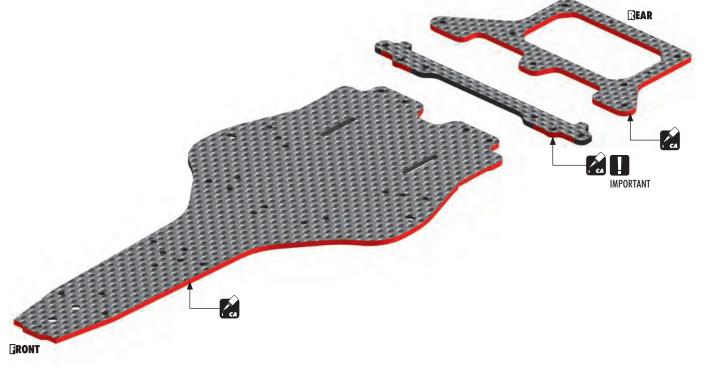
Wheels & Tires & Inserts

CHASSIS PREPARATION

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

Do this for: chassis edges and countersunk holes.







ALU SHIM 3.2x4.8x0.5 (4)

X1 COMPOSITE ARM BUSHING (4)

ANTI-ROLL BAR - FRONT 1.2 MM

COMPOSITE PIVOTBALL UNIVERSAL 6.0 MM (2)

X1 COMPOSITE CASTER & CAMBER BUSHING (2+2+2+2)

X1 ALU BALL-BEARING ANTI-ROLL BAR HOLDER - ORANGE

37 2290

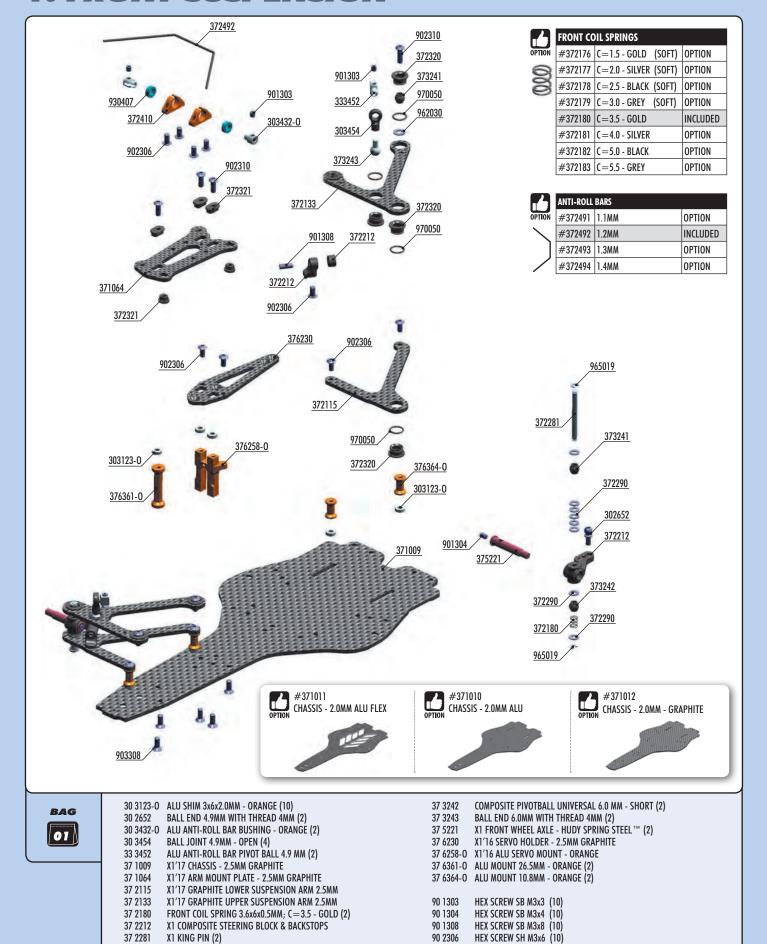
37 2320

37 2321

37 2410

37 2492

37 3241



HEX SCREW SH M3x10 (10)

HEX SCREW SFH M3x8 (10) BALL-BEARING 4x7x2.5 (2)

WASHER S 3x6x0.3 (10) E-CLIP 1.9 (10)

0-RING 5x1 (10)

90 2310

90 3308

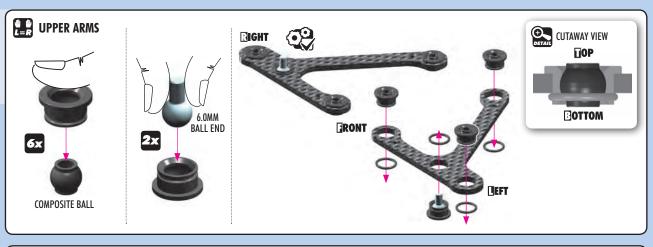
93 0407

96 2030

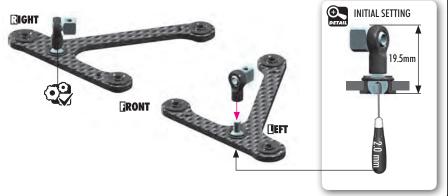
96 5019

97 0050

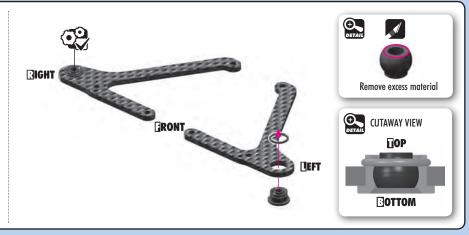




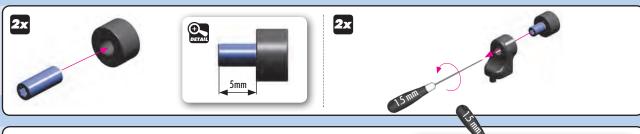




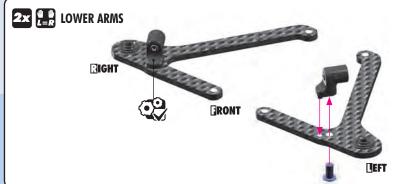








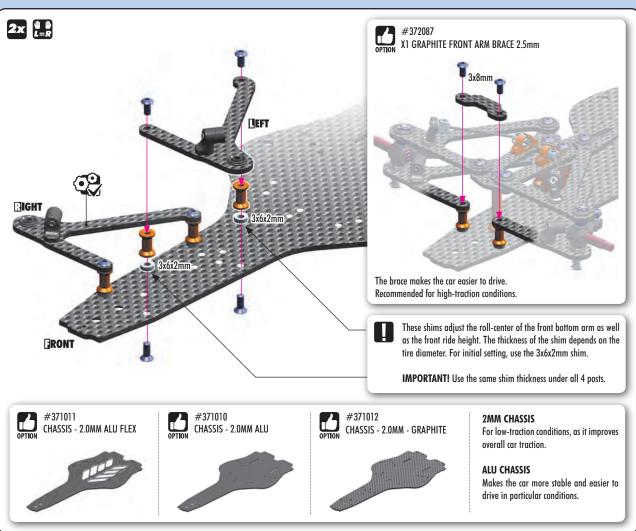




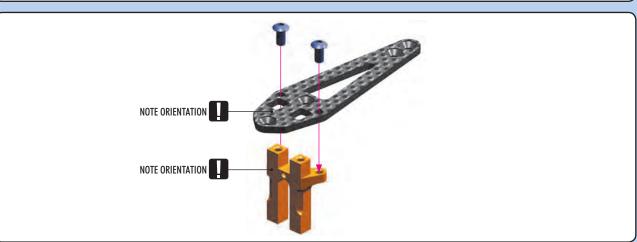


The adjustable backstops are used to limit the steering angle. Adjust the backstop with the set-screw to achieve the maximum steering angle needed. Adjust the steering angle on both L & R sides to the same amount.

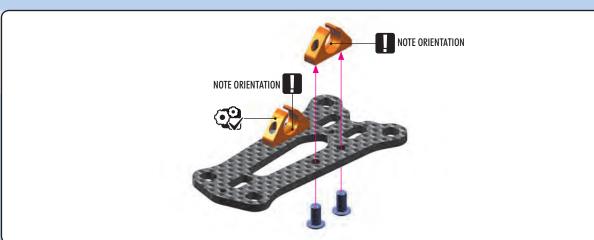










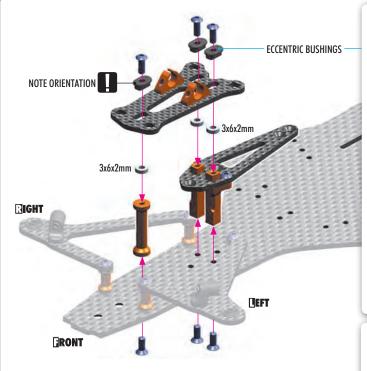












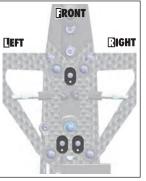
IMPORTANT!

All three bushings MUST have same orientation. These bushings adjust the front CASTER:









These eccentric bushings adjust the front **CASTER**.

MORE caster angle = better cornering speed, increased traction rolling.Use on large, open tracks where cornering speed is needed.

LESS caster angle = more reactive steering. Use on technical tracks where a lot of steering response is needed.

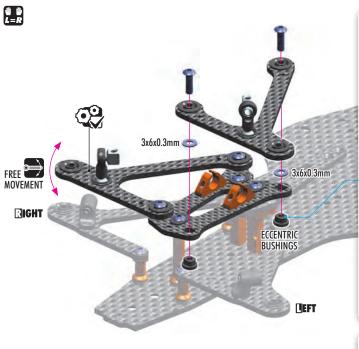


ALU CASTER BUSHINGS			
#372327	CASTER 6°, 9° (3)	ALU	OPTION
#372328	CASTER 3°, 12° (3)	ALU	OPTION



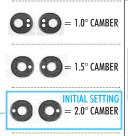








All four bushings MUST have same orientation. These bushings adjust the front CAMBER:







These eccentric bushings adjust the front CAMBER.

The more camber angle, the more steering there is. However, it makes the car more sensitive and more difficult to drive.

Use LESS camber angle for carpet and other high-traction tracks.

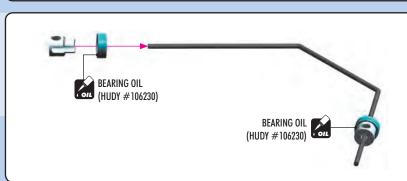
Use MORE camber on asphalt and low-traction tracks.



ALU CAMBER BUSHINGS				
ĺ	#372325	CAMBER 1.5°, 2.0° (2)	ALU	OPTION
	#372326	CAMBER 1.0°, 2.5° (2)	ALU	OPTION

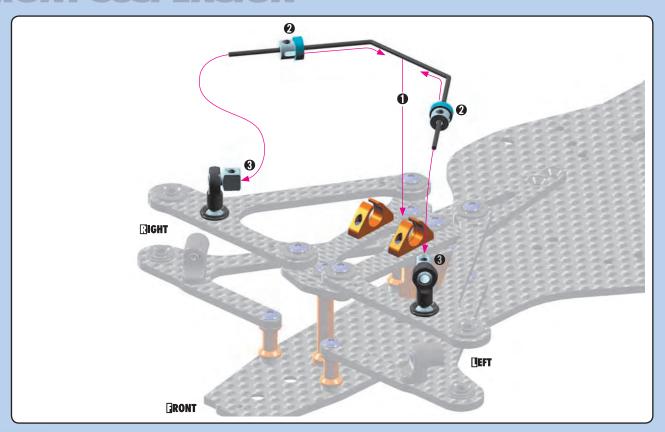




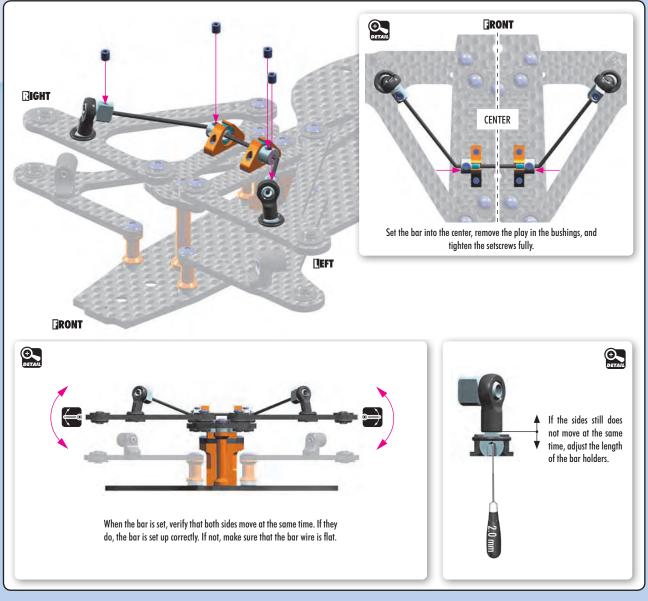


OPTION

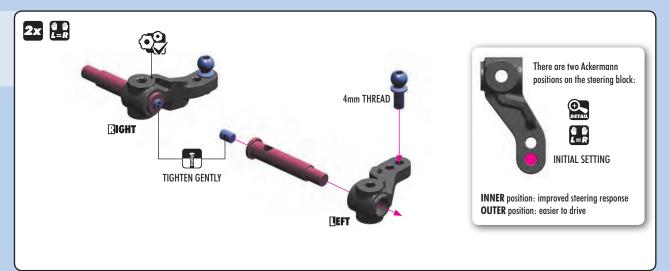
	ANTI-ROLL	BARS	
í	#372491	1.1MM	OPTION
	#372492	1.2MM	INCLUDED
	#372493	1.3MM	OPTION
1	#372494	1.4MM	OPTION





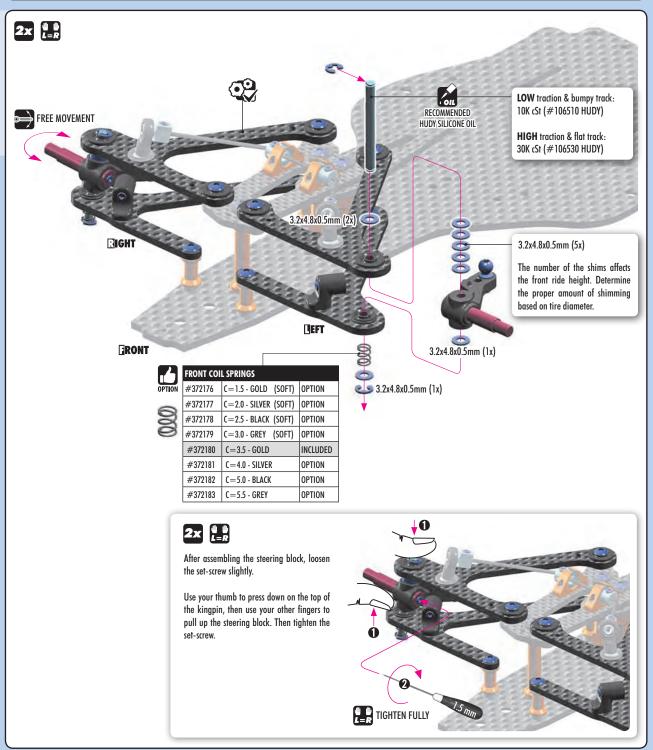


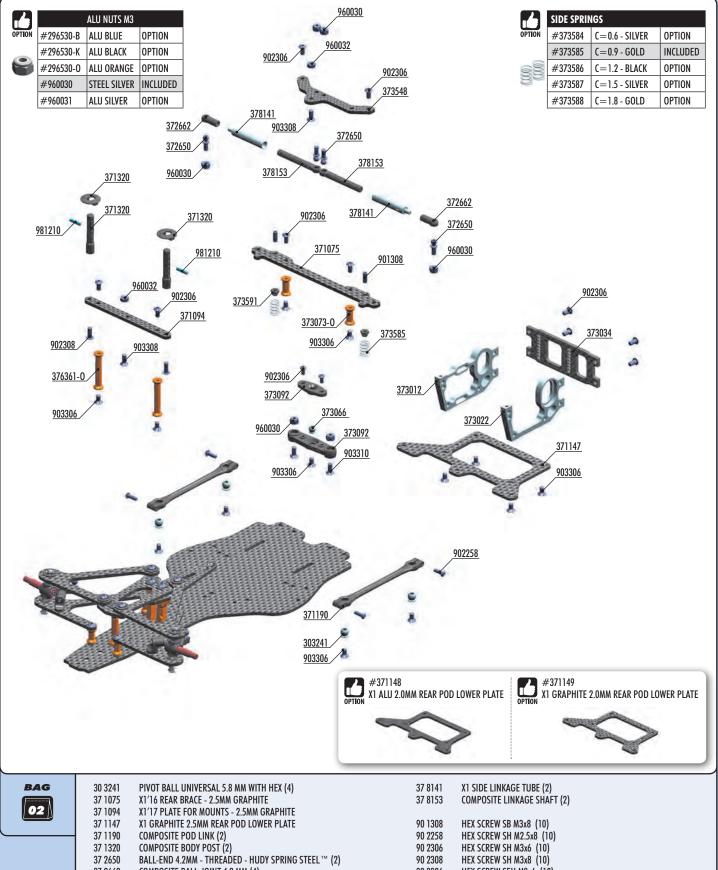




965019 C 1.9

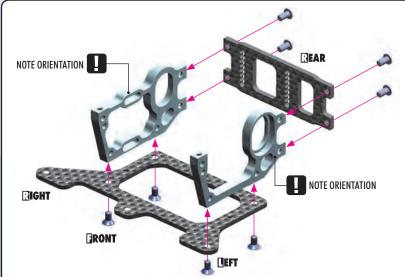
372290 SHIM 3.2x4.8x0.5

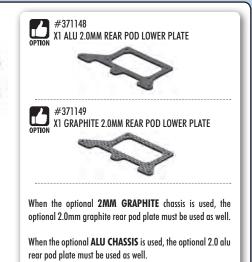




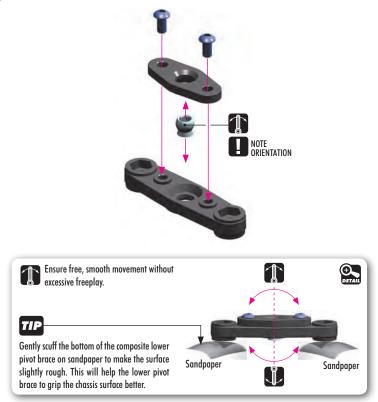
	30 3241	PIVOT BALL UNIVERSAL 5.8 MM WITH HEX (4)	37 8141	X1 SIDE LINKAGE TUBE (2)
l	37 1075	X1'16 REAR BRACE - 2.5MM GRAPHITE	37 8153	COMPOSITE LINKAGE SHAFT (2)
l	37 1094	X1'17 PLATE FOR MOUNTS - 2.5MM GRAPHITE		
l	37 1147	X1 GRAPHITE 2.5MM REAR POD LOWER PLATE	90 1308	HEX SCREW SB M3x8 (10)
l	37 1190	COMPOSITE POD LINK (2)	90 2258	HEX SCREW SH M2.5x8 (10)
l	37 1320	COMPOSITE BODY POST (2)	90 2306	HEX SCREW SH M3x6 (10)
l	37 2650	BALL-END 4.2MM - THREADED - HUDY SPRING STEEL™ (2)	90 2308	HEX SCREW SH M3x8 (10)
l	37 2662	COMPOSITE BALL-JOINT 4.2 MM (4)	90 3306	HEX SCREW SFH M3x6 (10)
l	37 3012	X1 ALU REAR BULKHEAD - MOTOR (RIGHT)	90 3308	HEX SCREW SFH M3x8 (10)
l	37 3022	X1 ALU REAR BULKHEAD - LEFT	90 3310	HEX SCREW SFH M3x10 (10)
l	37 3034	X1'17 GRAPHITE REAR BULKHEAD BRACE	96 0030	NUT M3 (10)
l	37 3066	ALU PIVOT BALL	96 0032	NUT M3 (10)
l	37 3073-0	ALU REAR BRACE MOUNT 13MM - ORANGE (2)	98 1210	PIN 2x10 (10)
l	37 3092	COMPOSITE LOWER & UPPER PIVOT BRACE - LOW ROLL-CENTER		
l	37 3548	X1'16 REAR POD UPPER PLATE - 2.5MM GRAPHITE		
l	37 3585	SIDE SPRING C=0.9 - GOLD (2)		
		COMPOSITE SIDE SPRING HOLDER (2)		
	37 6361-0	ALU MOUNT 26.5MM - ORANGE (2)		
1				

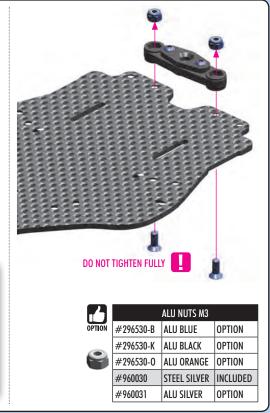




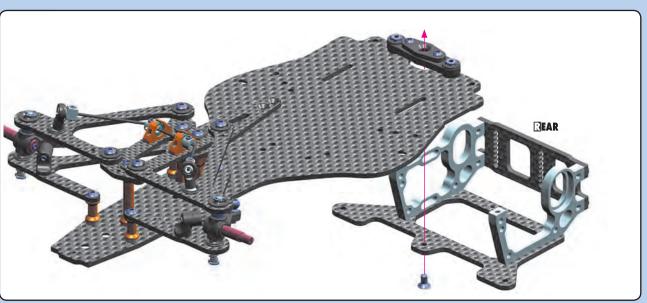










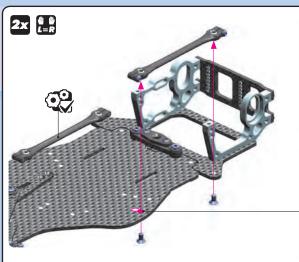


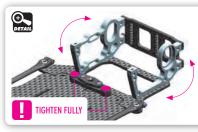














Ensure free, smooth movement. If the POD plate does not move freely, untight slightly the nuts of composite pivot brace and tight again.



POD Linkage position

OUTER POSITION (INITIAL SETTING)
The side link is straight, easier to drive.

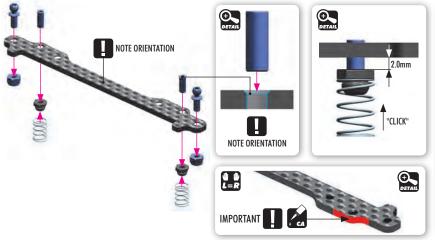
INNER POSITION

The side link is angled, increased in-corner steering.











	- 6	SIDE SPRINGS			
	OPTION	#373584	C=0.6 - SILVER	OPTION	
		#373585	C=0.9 - GOLD	INCLUDED	
(/VVV/)	28	#373586	C=1.2 - BLACK	OPTION	
	gg	#373587	C=1.5 - SILVER	OPTION	
		#373588	C=1.8 - GOLD	OPTION	

SOFTER SPRINGS:

Makes the car easier to drive on

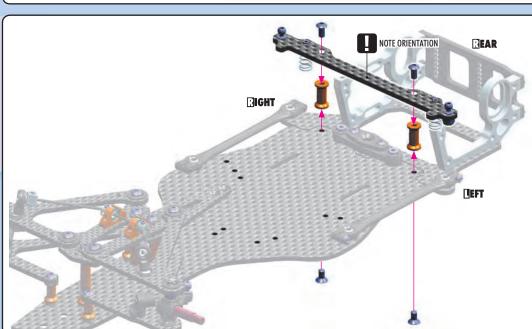
low-traction tracks but more difficult to drive on high-traction tracks.

HARDER SPRINGS:

Improves steering response, but also increases traction rolling.











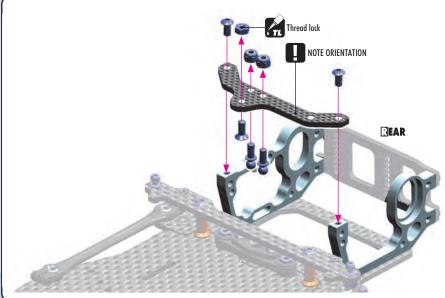






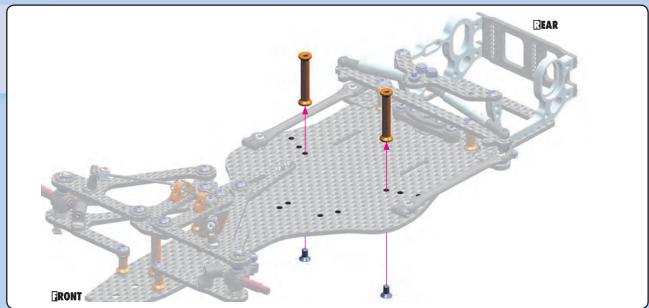






	ALU NUTS M3	
#296530-B	ALU BLUE	OPTION
#296530-K	ALU BLACK	OPTION
#296530-0	ALU ORANGE	OPTION
#960030	STEEL SILVER	INCLUDED
#960031	ALU SILVER	OPTION
	#296530-B #296530-K #296530-O #960030	#296530-K ALU BLACK #296530-O ALU ORANGE #960030 STEEL SILVER





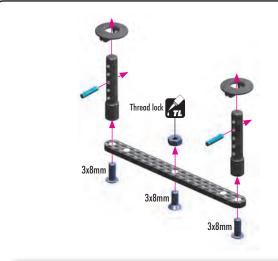










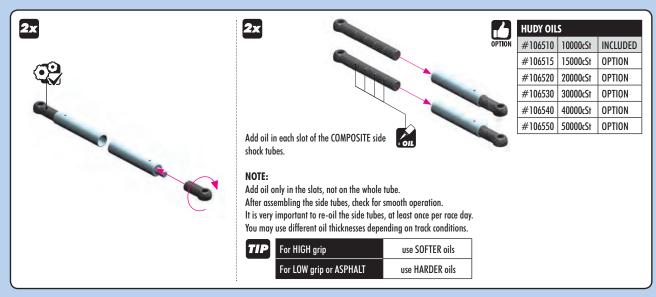


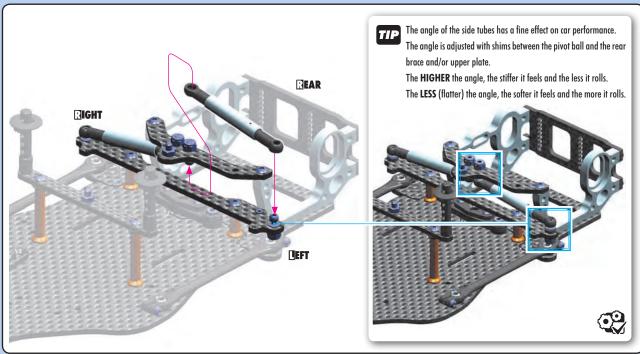


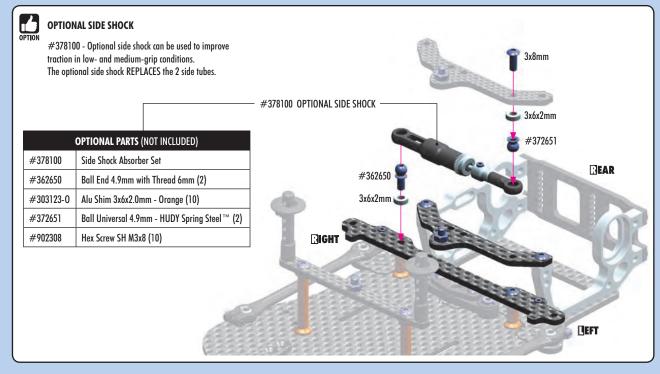
Very handy, easily externally adjustable body post from Swiss 7075 T6 aluminum. Allows for adjustment of body height by 3mm without needing to change the position on the body post.



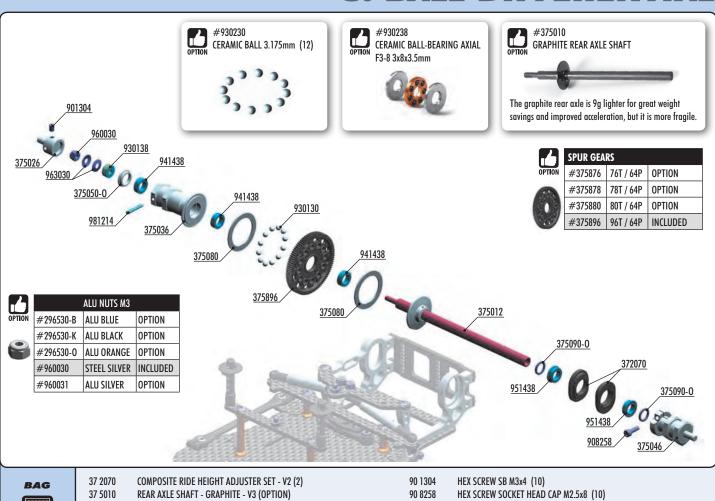




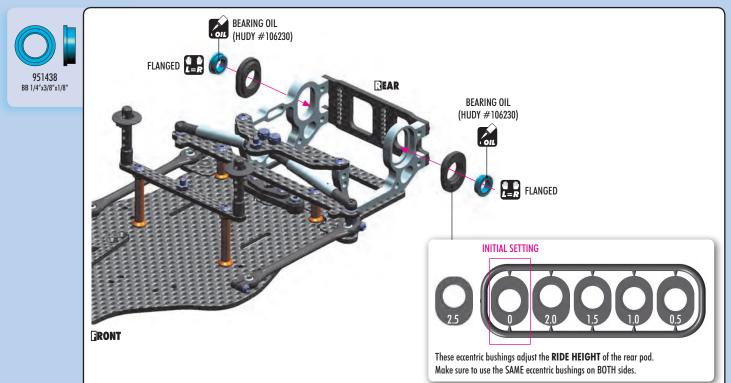




3. BALL DIFFERENTIAL

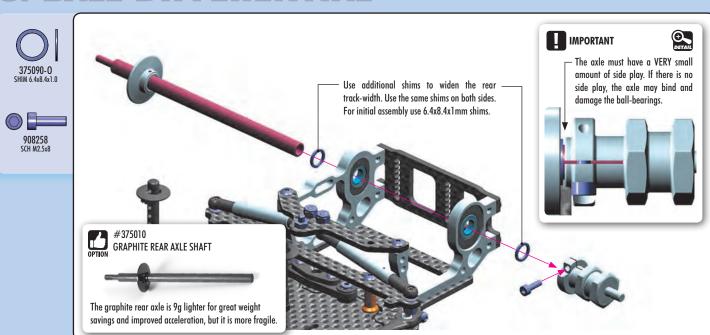


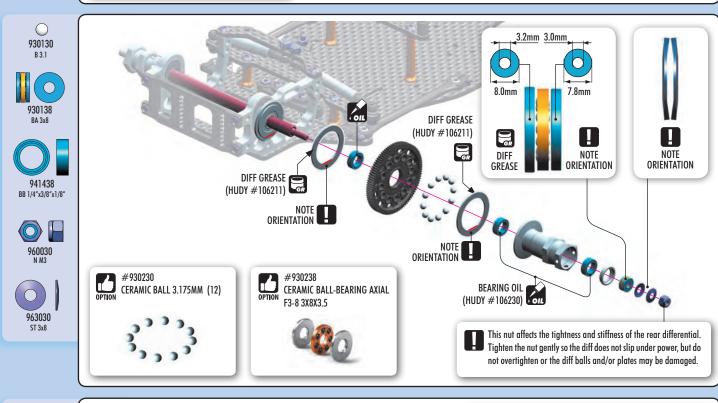
STEEL REAR AXLE SHAFT - HUDY SPRING STEEL™ 37 5012 93 0130 CARBIDE BALL 3.175MM (12) X1 ALU REAR DRIVE AXLE - RIGHT CARBIDE BALL-BEARING AXIAL F3-8 3x8x3.5 - V2 37 5026 93 0138 CERAMIC BALL 3.175MM (12) (OPTION)
CERAMIC BALL-BEARING AXIAL F3-8 3x8x3.5 (OPTION) 37 5036 X1 ALU REAR WHEEL HUB - RIGHT 93 0230 X1 ALU REAR WHEEL HUB - LEFT 37 5046 93 0238 37 5050-0 ALU DIFF HUB - ORANGE 94 1438 HIGH-SPEED BALL-BEARING 1/4"x3/8"x1/8" RUBBER SEALED (2) 37 5080 D-LOCK DIFF PLATE (2) BALL-BEARING 1/4" x 3/8" x 1/8" FLANGED (2) 95 1438 37 5090-0 SET OF ALU SHIMS 6.37x8.4MM (0.5MM, 1.0MM, 2.0MM) - ORANGE 96 0030 NUT M3 (10) 96 3030 CONE WASHER ST 3x8x0.5 (10) COMPOSITE SPUR GEAR - 96T / 64P 37 5896 98 1214 PIN 2x14 (10)

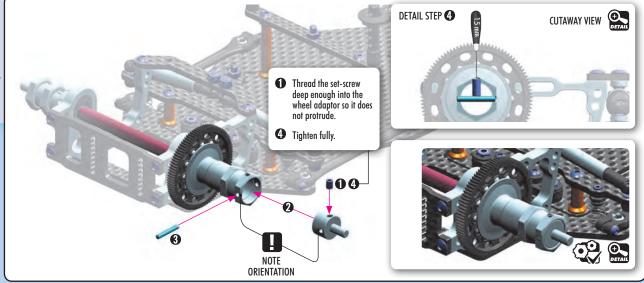


03

3. BALL DIFFERENTIAL



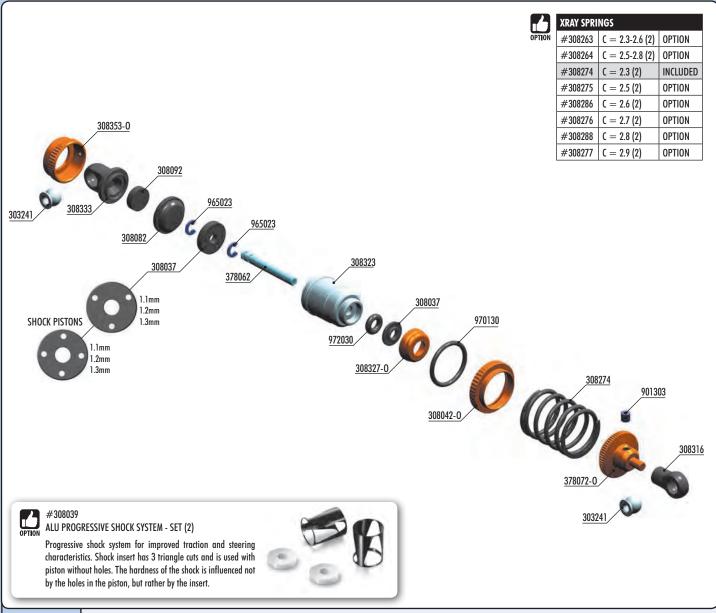




901304 SB M3x4

981214 P 2x14

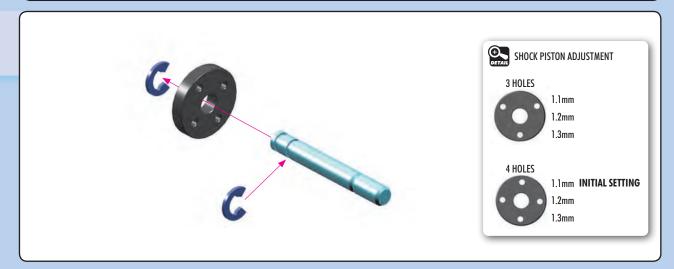
4. CENTER SHOCK



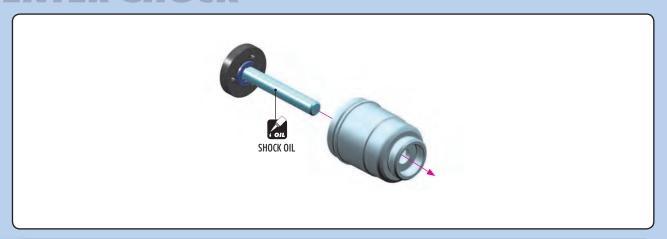


30 3241 30 8037 30 8042-0 30 8082 30 8092	BALL UNIVERSAL 5.8 MM HEX (4) COMPOSITE PISTONS 4-HOLE 1.0-1.2MM, 3-HOLE 1.0-1.2MM ALU SHOCK ADJUSTABLE NUT - ORANGE (2) SHOCK ABSORBER MEMBRANE (4) SHOCK FOAM INSERTS (4)	30 8353-0 30 8274 37 8062 37 8072-0	T4 ALU SHOCK CAP-NUT WITH VENT HOLE - ORANGE (2) XRAY SPRING-SET C = 2.3 X1'17 SHOCK SHAFT X1'17 ALU SHOCK SPRING COLLAR - ORANGE
30 8316 30 8323 30 8327-0	SHOCK BALL JOINT - OPEN (4) ALU XRAY SHOCK BODY (2) ALU CAP FOR XRAY SHOCK BODY - ORANGE	90 1303 96 5023 97 0130	HEX SCREW SB M3x3 (10) E-CLIP 2.3 (10) O-RING 13 x 1.5 (10)
30 8333	COMPOSITE SHOCK PARTS FOR ALU SHOCKS	97 2030	SILICONE O-RING 3 x 2 (10)

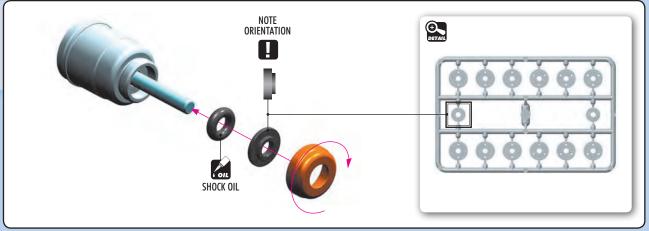




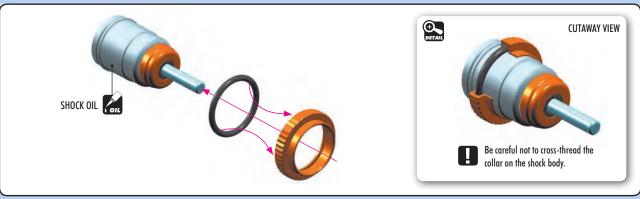
4. CENTER SHOCK









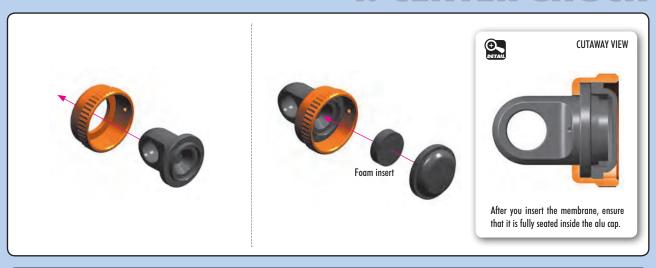


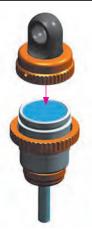
SHOCK FILLING OIL 600cSt SOFTER OIL Recommended for bumpy and low-traction tracks, generates more traction. HARDER OIL Recommend for flat and higher traction tracks, improves steering response. 1 Fully extend the piston rod so the piston is at the bottom of the shock body.



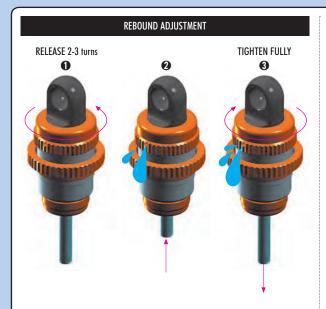
SHOCK OILS #106310 100cSt #106315 150cSt #106320 200cSt #106325 250cSt #106330 300cSt #106335 350cSt #106340 400cSt #106345 450cSt #106350 500cSt #106355 550cSt INITIAL SETTING #106360 600cSt #106365 650cSt #106370 700cSt #106375 750cSt #106380 800cSt #106390 900cSt #106410 1000cSt #106420 2000cSt

- 2 Hold the shock upright and slightly overfill the shock body with shock oil.
- 1 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.



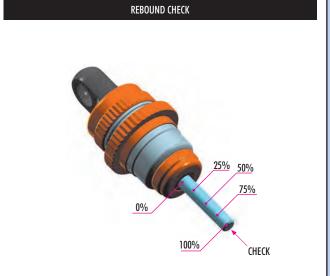


- When installing the shock cap assembly on the shock body, some oil will leak out... this is normal.
- 2 Tighten the cap and clean off any excess oil.
- After the shock is assembled, the shock rod will push itself out of the shock body fairly quickly.
- 4 Follow the next procedure to adjust the rebound.



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:

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.

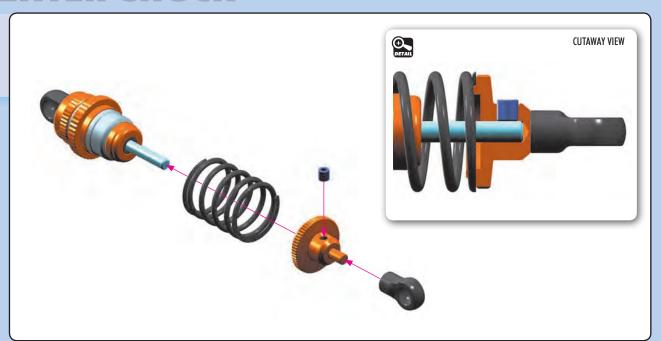
100% $\;$ rebound - do not do step 2 and 3 $\;$

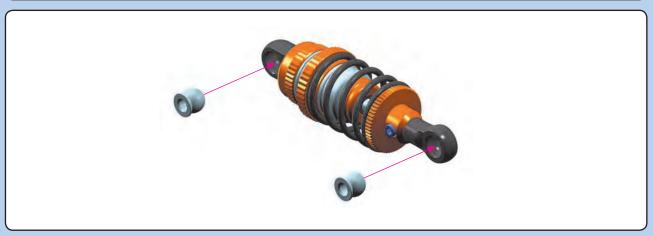
75% rebound - repeat step 2 and 3 until the shock shaft will push out 75% of its length rebound - repeat step 2 and 3 until the shock shaft will push out 50% of its length rebound - repeat step 2 and 3 until the shock shaft will push out 25% of its length rebound - repeat step 2 and 3 until the shock shaft will push out 25% of its length

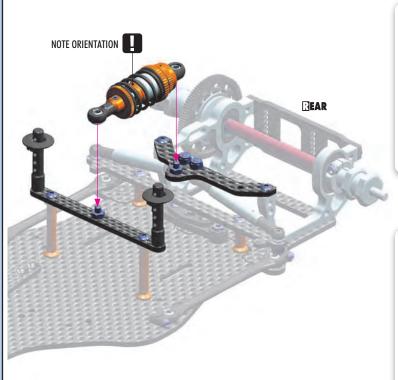
If the shock shaft does not rebound enough, you will have to refill the shock with shock oil, and then repeat the bleeding and rebound adjustment procedure.

4. CENTER SHOCK



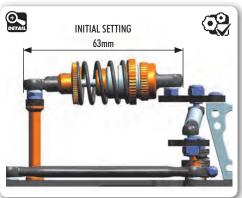


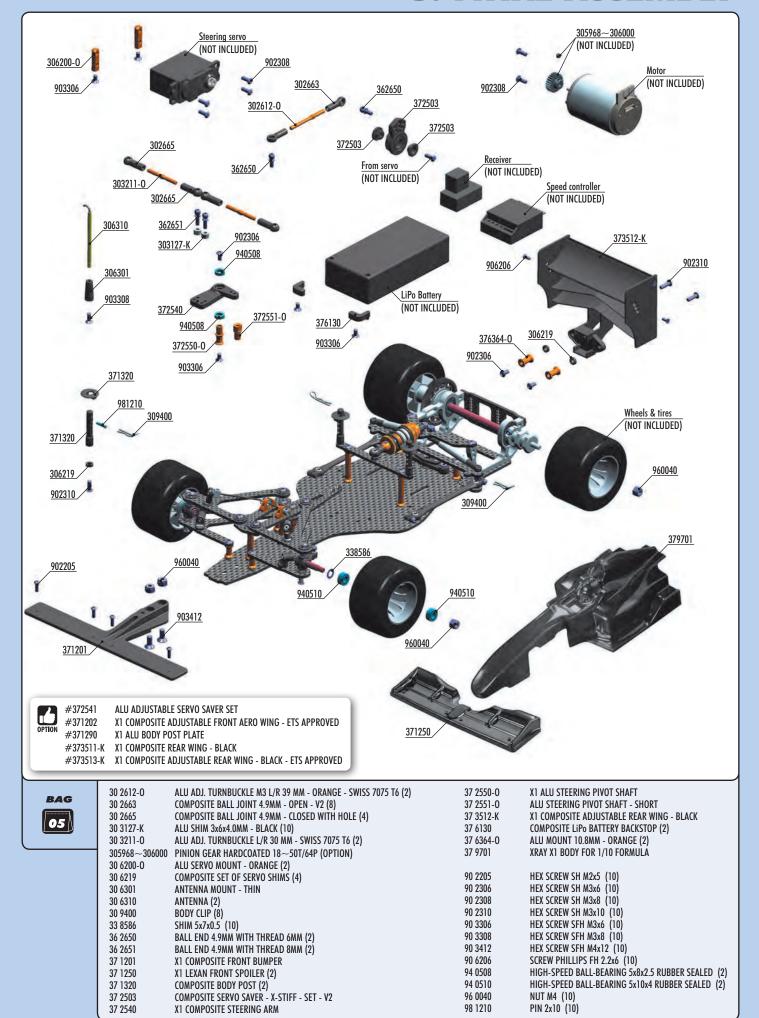




DOWNSTOP ADJUSTMENT













902306 SH M3x6

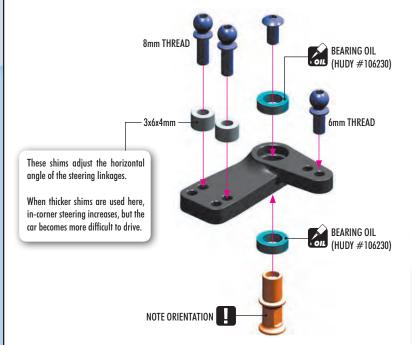


ALTERNATIVE 1

STANDARD STEERING ARM MOUNTING

(INITIAL SETTING)

Standard steering mounting system provides maximum steering response and makes the car more precise.





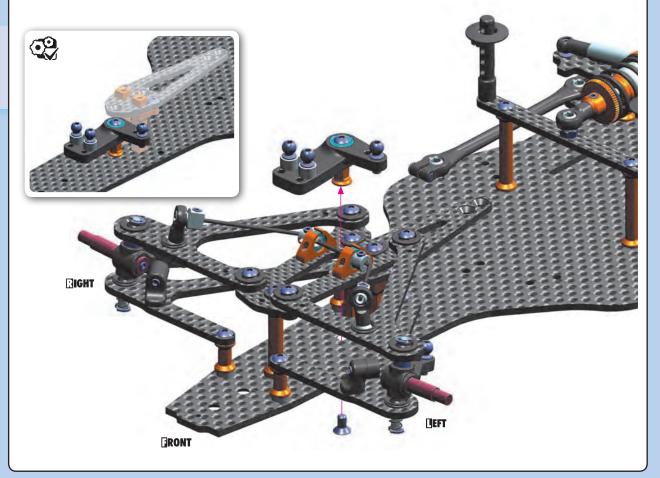
INNER position: Less Ackermann, makes the car more

responsive, improves in-corner steering.

OUTER position: More Ackermann, makes the car easier to drive, improves cornering speed.











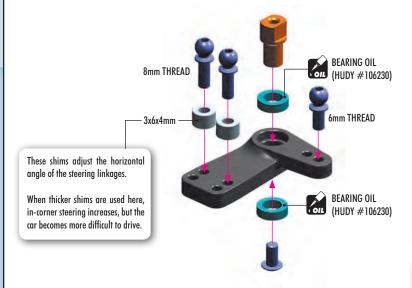




ALTERNATIVE 2

FLOATING STEERING ARM MOUNTING

Floating steering mounting system makes the car easier to drive over curbs and on bumpy tracks. Prevents the car to over steer.



Always use this position

Always use this position

INITIAL
SETTING

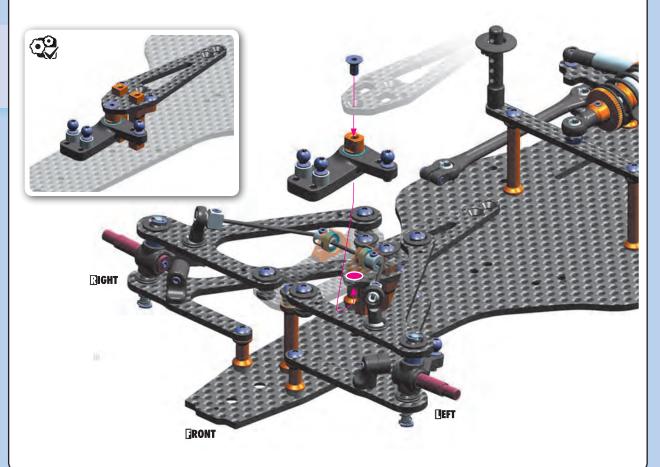
There are two Ackermann positions on the steering arm.

INNER position: Less Ackermann, makes the car more responsive, improves in-corner steering.

OUTER position: More Ackermann, makes the car easier to drive, improves cornering speed.





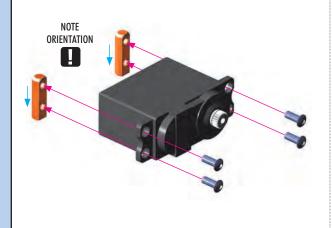






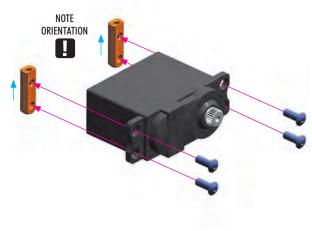
ALTERNATIVE 1

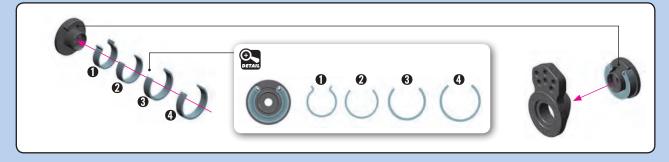
STANDARD SERVO MOUNTING (INITIAL SETTING)

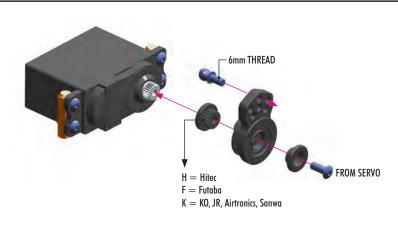


ALTERNATIVE 2

FLOATING SERVO MOUNTING









ALUMINUM SERVO HORNS:

For more in-corner steering and better steering response, an aluminum servo horn may be used. In this situation, the steering servo saver is NOT used.



	HUDY ALU	SERVO HORNS - OFFSET
ı	#293491	KO, JR, Sanwa, Airtronics - OFFSET - 23T
	#293492	Hitec - OFFSET - 24T
	#293493	Futaba - OFFSET - 25T
,		



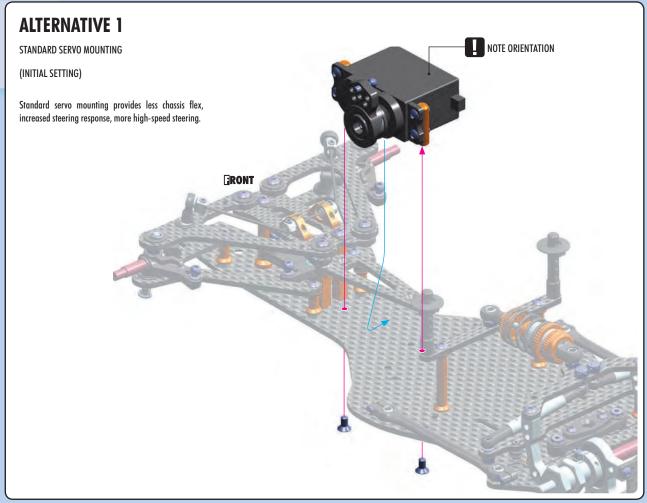
	HUDY ALU SERVO HORNS		
N	#293501	KO, JR, Sanwa, Airtronics - 23T	
	#293502	Hitec - 24T	
	#293503	Futaba - 25T	



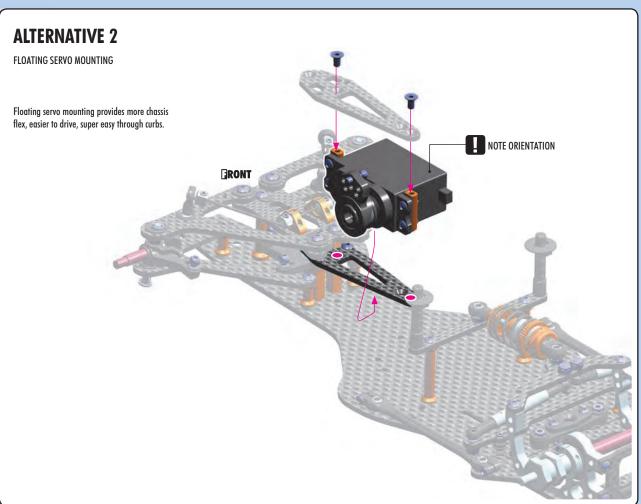
IMPORTANT!

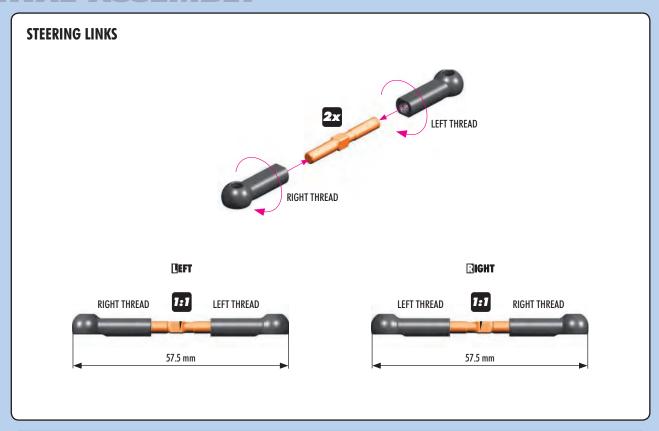
Using an "Aluminum Servo Horns" increases the risk of servo breakage in serious crashes.

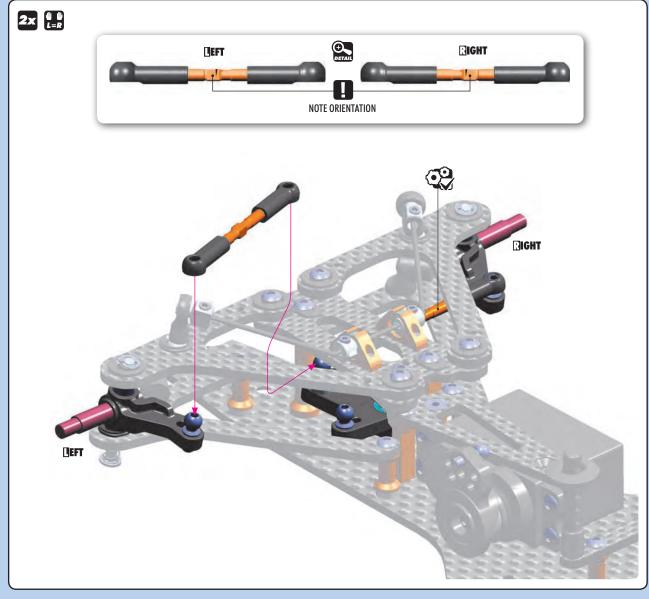


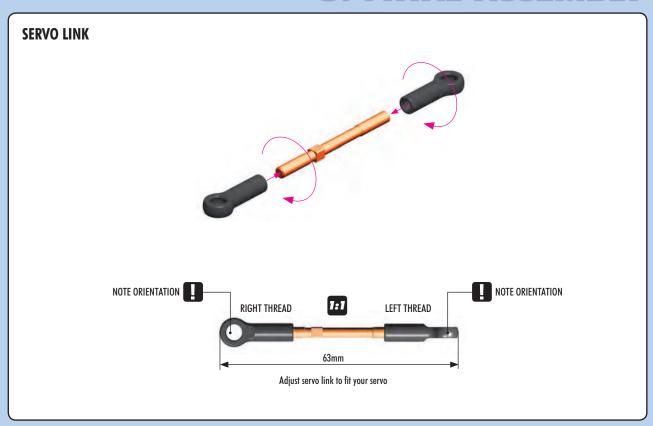


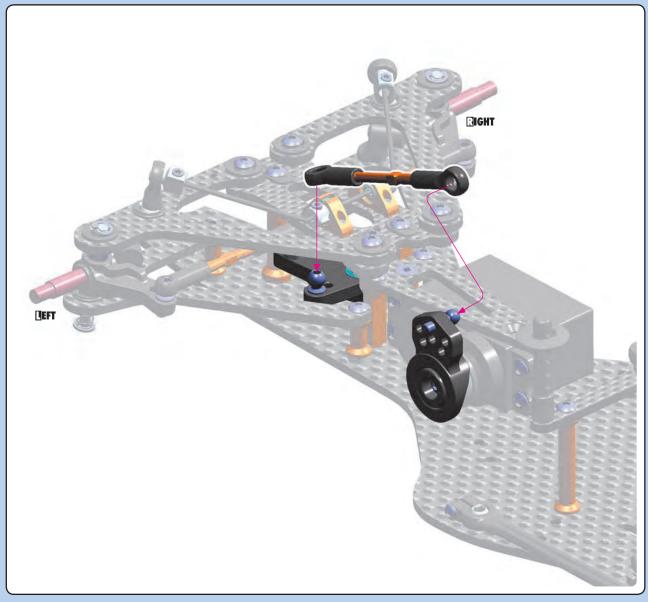




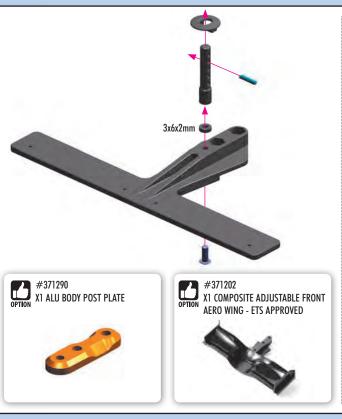


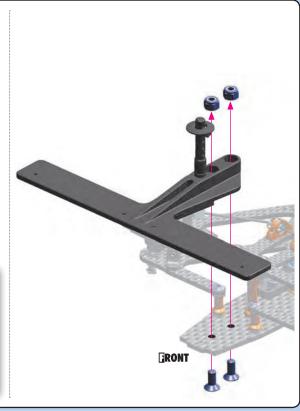








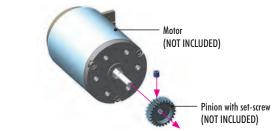


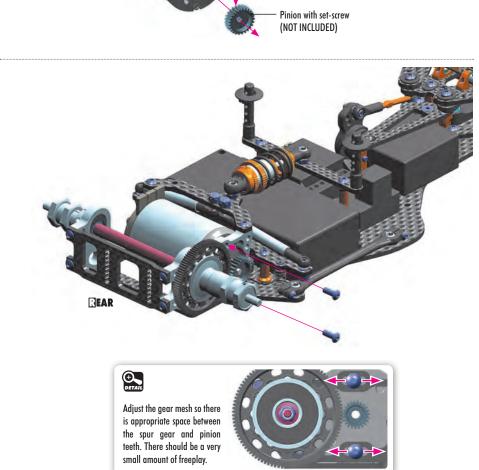




903412 SFH M4x12

960040 N M4

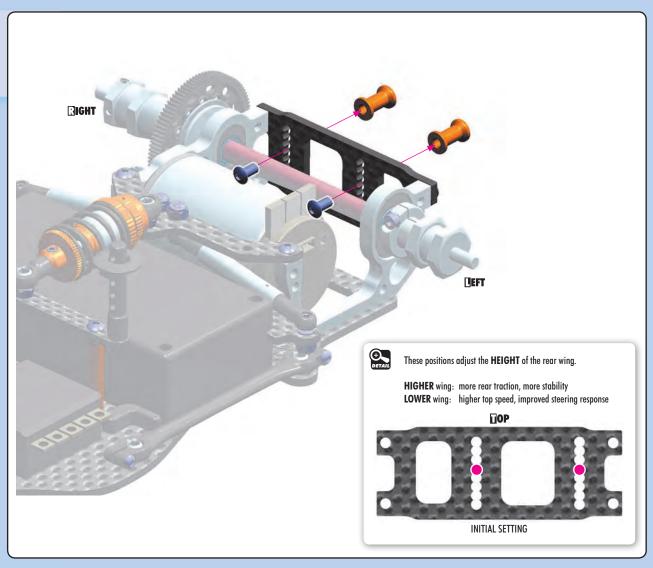




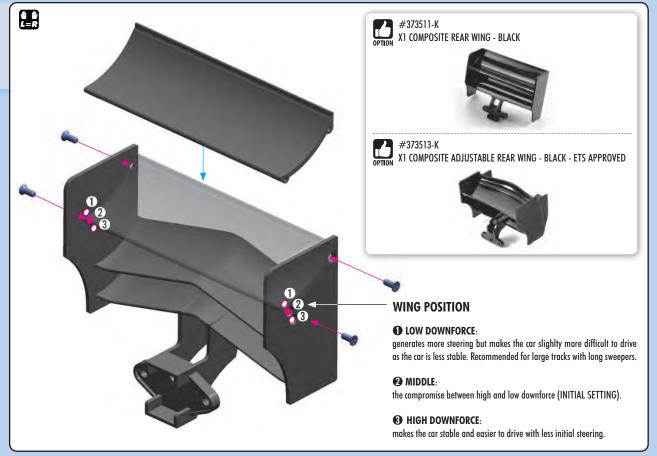
	PINION G	ARS ALU HA	RDCOATED
Ń	#305968	18T / 64P	OPTION
į	#305969	19T / 64P	OPTION
	#305970	20T / 64P	OPTION
	#305971	21T / 64P	OPTION
	#305972	22T / 64P	OPTION
	#305973	23T / 64P	OPTION
	#305974	24T / 64P	OPTION
	#305975	25T / 64P	OPTION
	#305976	26T / 64P	OPTION
	#305977	27T / 64P	OPTION
	#305978	28T / 64P	OPTION
	#305979	29T / 64P	OPTION
	#305980	30T / 64P	OPTION
	#305981	31T / 64P	OPTION
	#305982	32T / 64P	OPTION
	#305983	33T / 64P	OPTION
	#305984	34T / 64P	OPTION
	#305985	35T / 64P	OPTION
	#305986	36T / 64P	OPTION
	#305987	37T / 64P	OPTION
	#305988	38T / 64P	OPTION
	#305990	40T / 64P	OPTION
	#305991	41T / 64P	OPTION
	#305992	42T / 64P	OPTION
	#305994	44T / 64P	OPTION
	#305996	46T / 64P	OPTION
	#305997	47T / 64P	OPTION
	#305998	48T / 64P	OPTION
	#306000	50T / 64P	OPTION



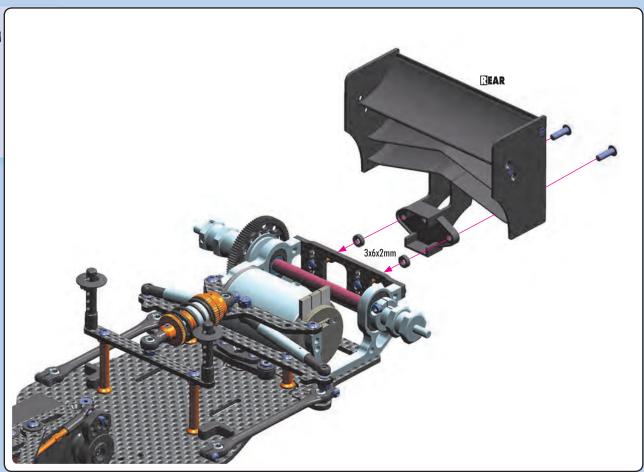




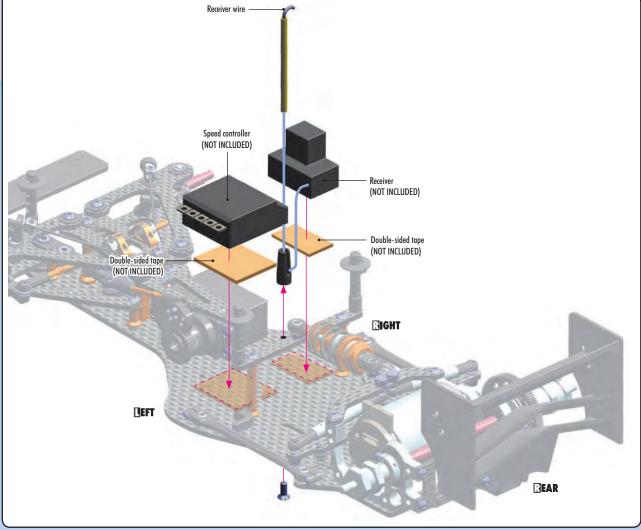






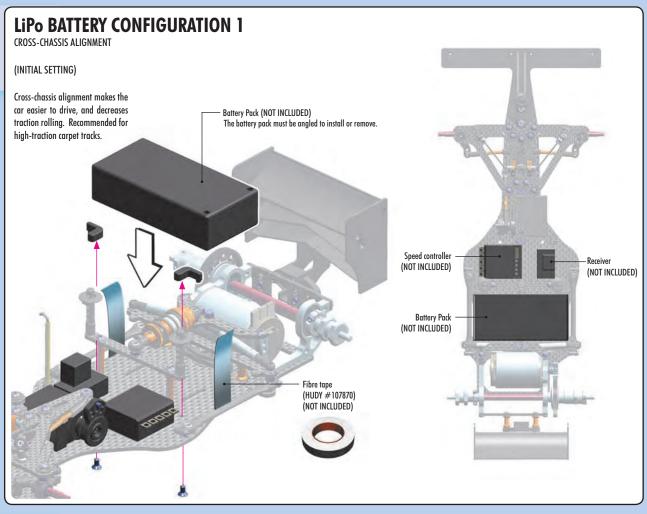




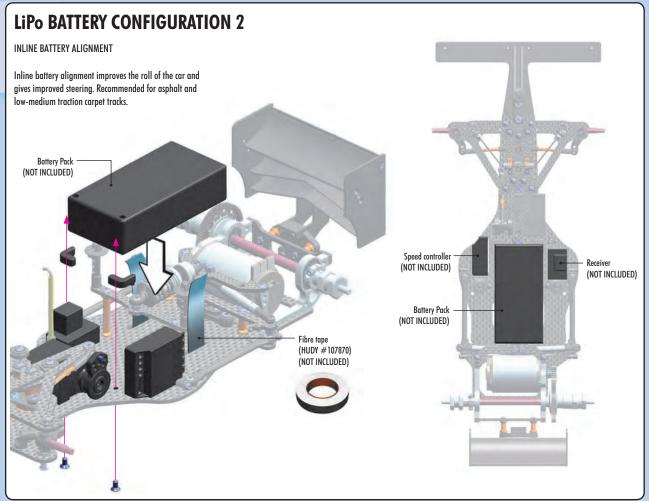


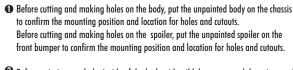
> ATT





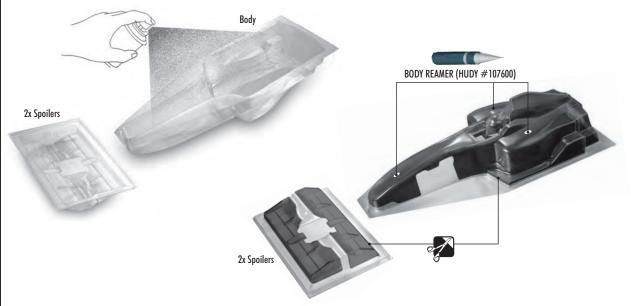


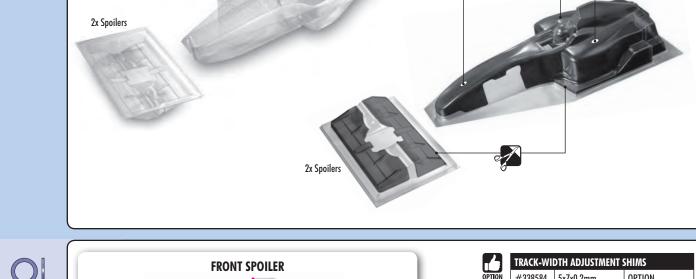




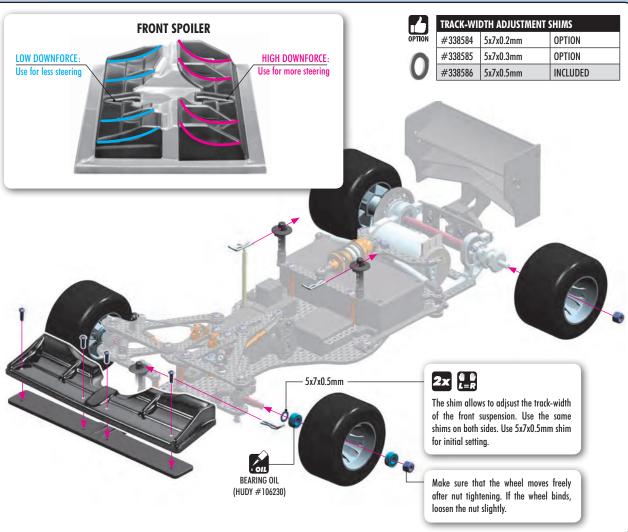
- $oldsymbol{arOmega}$ Before painting, wash the inside of the body with mild detergent, and then rinse and dry thoroughly.
- Mask the helmet shield if you wish.

- Apply paint masks as appropriate.
- Paint the body using paints formulated for polycarbonate bodies.
- **6** When the paint is dry, remove the masking.
- Carefully cut out the body using appropriate scissors or cutting tools.
- 3 When you have finished cutting, peel off the external protective films.











SET-UP SHEET

XRAY XI'I7

RACE TRACK	SERVO ARM FLOATING STANDARD SERVO MOUNTING SHOCK ABSORBER SHIM SHOCK LENGTH /mm /mm SHOCK PRELOAD /mm
NAME CITY / COUNTRY CONTACT DATE QUALIFYING POSITION BEST LAPTIME /sec POSITION RACE LENGTH /min	BUMP STEER SHIM SERVO ARM SERVO ARM SERVO ARM SERVO ARM DROOP FRONT RIDE HEIGHT MID RIDE HEIGHT DROOP REAR RIDE HEIGHT REAR RIDE HEIGHT
TRACK TRACK SURFACE	SHIM SHIM SHIM SHIM SHIM SPRING LOWER ARM SHIM Jam Jam SIDE SPRING WING SHIM Jam Jam Jam Jam Jam Jam Jam Ja
THICKNESS/mm SIDE TUBES OIL /cSt OIL /cSt FRONT TIRES ADDITIVE	CASTER C CAMBER C C C C C C C C C C C C C C C C C C C
ADDITIVE TIMING FRONT FRONT LEFT RIGHT ADDITIVE TREATED AREA AREA DIFF SETTING COSE MEDIUM TIGHT GEARING PINION /T SPUR GEAR /T FINAL DRIVE RATIO ELECTRONICS	TOE OUT Acceptable Accepta
MOTOR SPEEDO BATTERIES BODY	HIGH DOWNFORCE STORY TO THE STO

www.teamxray.com

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