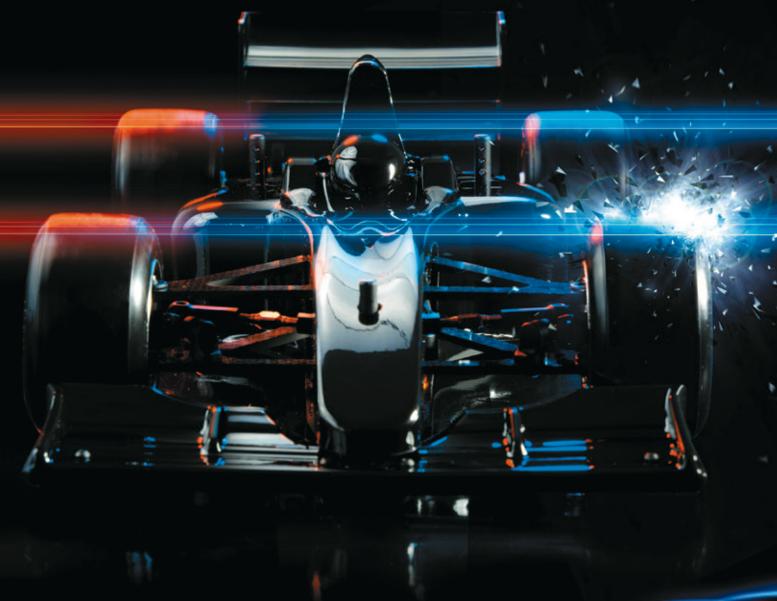
1/10 LUXURY ELECTRIC FORMULA

4 - 2 4

INSTRUCTION MANUAL





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

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 <u>www.teamxray.com</u> 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

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

XRAY Europe

K Vystavisku 6992 91101 Trenčín Slovakia, EUROPE Phone: 421-32-7401100 Fax: 421-32-7401109 E-mail: info@teamxray.com

XRAY USA

RC America, 2030 Century Center Blvd #15 Irving, TX 75062 USA Phone: (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 cauaht.
- 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.

FRAY

To prevent any serious personal injury and/or damage to property, please be responsible when operating all remote controlled models.



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



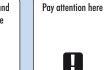


Assemble in the specified order





U U L=R





2x





CA





Detail view

Apply oil



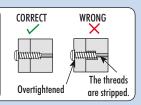














TOOLS REQUIRED













EOUIPMENT INCLUDED







NOT INCLUDED

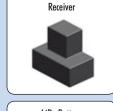
SAMPLE OF OPTIONAL PARTS

#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 reffer 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 part and must be purchased separately.

EQUIPMENT REQUIRED











Electric Motor &







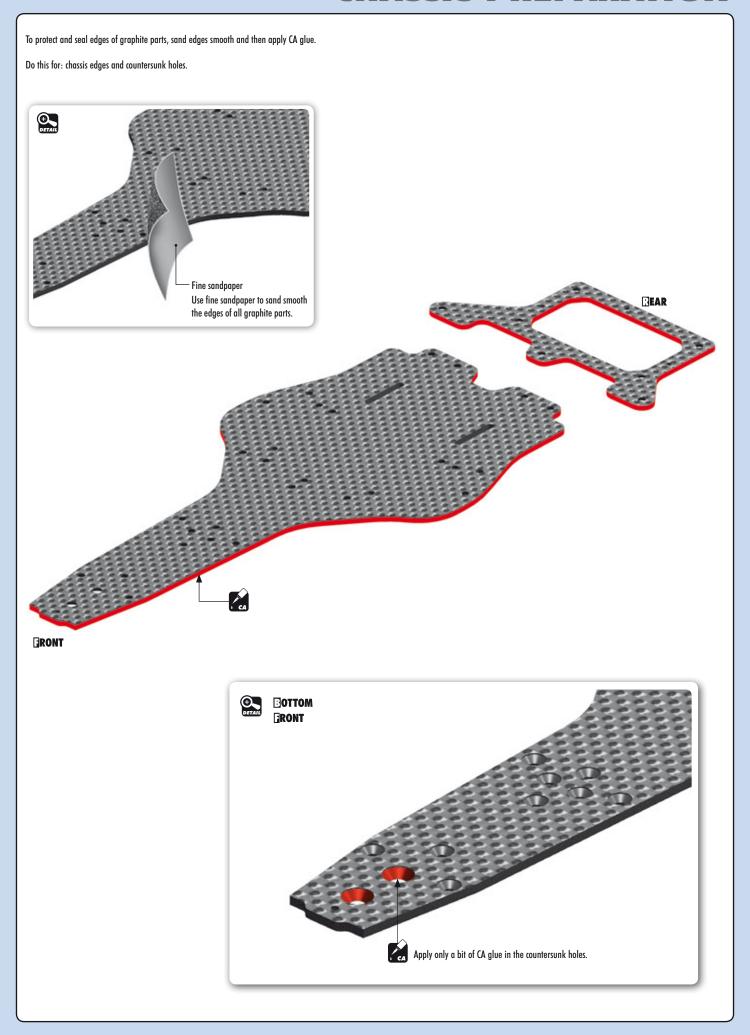




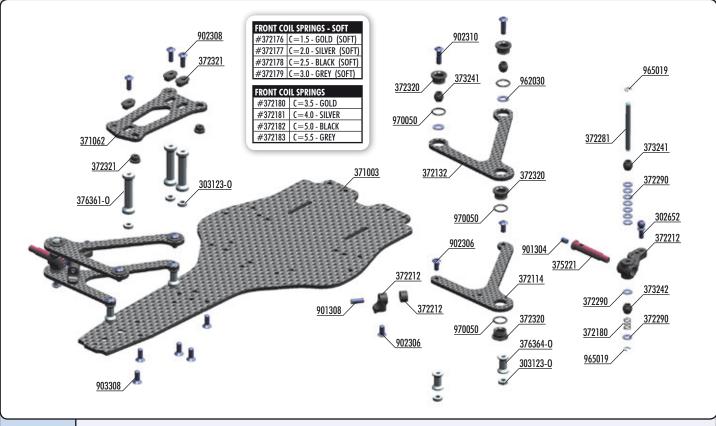




CHASSIS PREPARATION

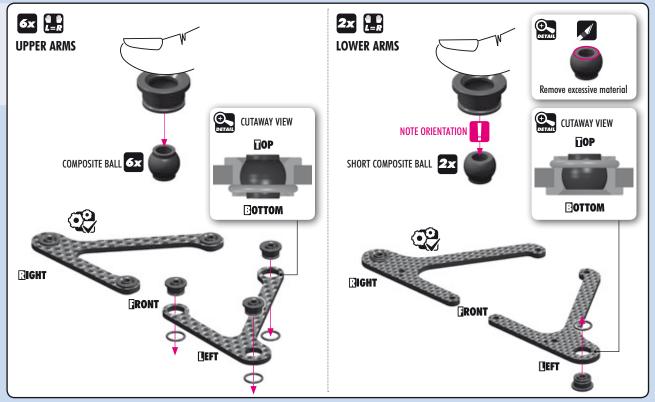


1. FRONT SUSPENSION



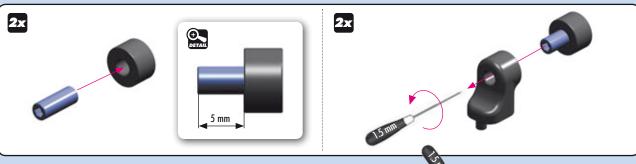
BAG OI





1. FRONT SUSPENSION





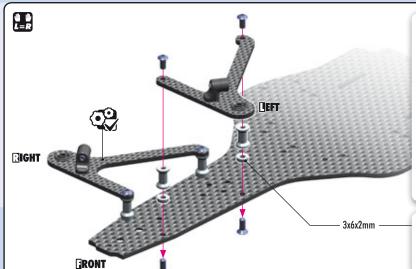


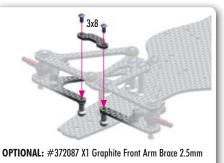








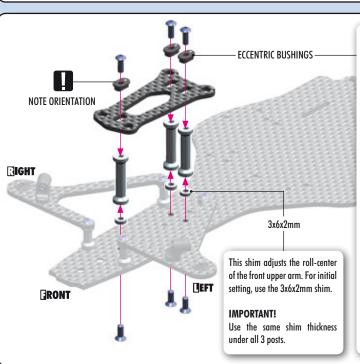


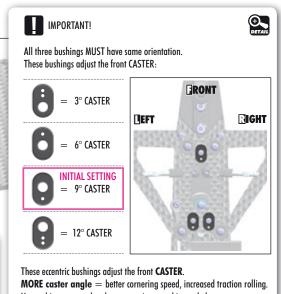


The brace makes the car easier to drive. Recommended for high-traction conditions.

This shim adjusts 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.







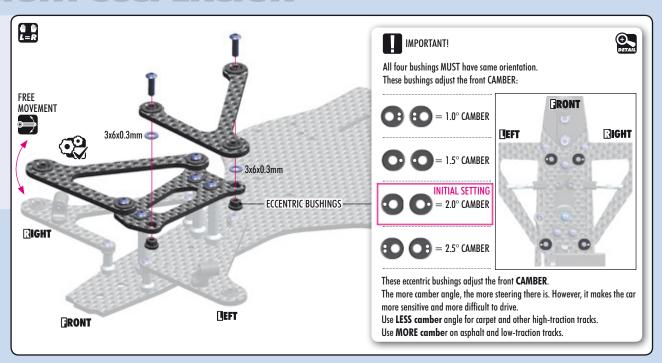
Use on big, open tracks where cornering speed is needed.

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

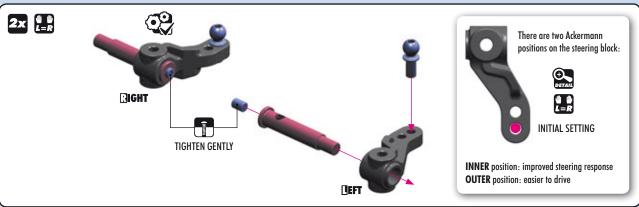
1. FRONT SUSPENSION



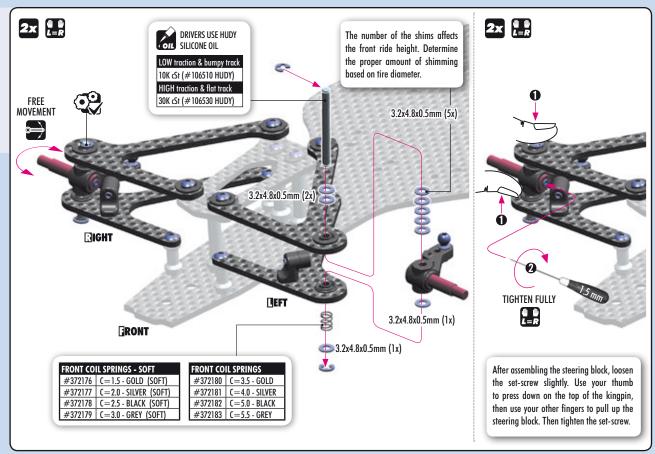




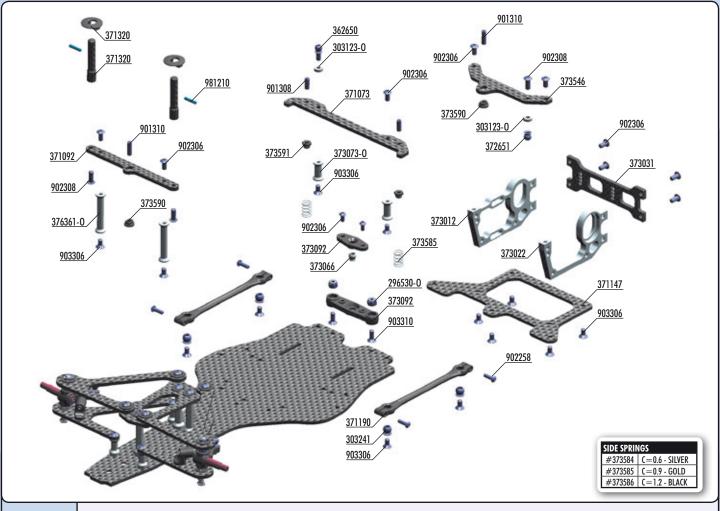








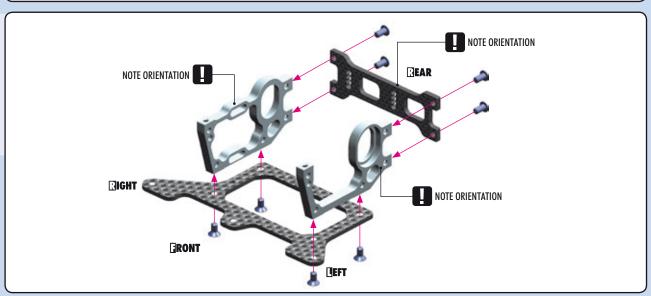
2. REAR SUSPENSION





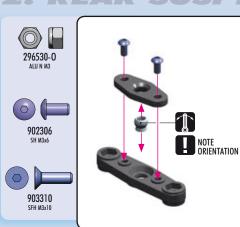
		ALU SHIM 3x6x2.0MM - ORANGE (10)	37 3590	COMPOSITE SPRING HOLDER & NUT (2+1)
	30 3241	PIVOT BALL UNIVERSAL 5.8 MM WITH HEX (4)	37 3591	COMPOSITE SIDE SPRING HOLDER (2)
	36 2650	BALL END 4.9MM WITH THREAD 6MM (2)	37 6361-0	ALU MOUNT 26.5MM - ORANGE (2)
	37 1073	X1 REAR BRACE - GRAPHITE 2.5MM		
	37 1092	X1 GRAPHITE PLATE FOR MOUNTS 2.5MM	29 6530-0	ALU NUT M3 - ORANGE (10)
	37 1147	X1 GRAPHITE 2.5MM REAR POD LOWER PLATE	90 1308	HEX SCREW SB M3x8 (10)
	37 1190	COMPOSITE POD LINK (2)	90 1310	HEX SCREW SB M3x10 (10)
	37 1320	COMPOSITE BODY POST (2)	90 2258	HEX SCREW SH M2.5x8 (10)
	37 2651	PIVOT BALL UNIVERSAL 4.9 MM - HUDY SPRING STEEL (2)	90 2306	HEX SCREW SH M3x6 (10)
	37 3012	X1 ALU REAR BULKHEAD - MOTOR (RIGHT)	90 2308	HEX SCREW SH M3x8 (10)
	37 3022	X1 ALU REAR BULKHEAD - LEFT	90 3306	HEX SCREW SFH M3x6 (10)
	37 3031	X1 GRAPHITE REAR BULKHEAD BRACE	90 3310	HEX SCREW SFH M3x10 (10)
	37 3066	ALU PIVOT BALL	98 1210	PIN 2x10 (10)
	37 3073-0	ALU REAR BRACE MOUNT 13MM - ORANGE (2)		
	37 3092	COMPOSITE LOWER & UPPER PIVOT BRACE - LOW ROLL-CENTER		
	37 3546	X1 REAR POD UPPER PLATE - GRAPHITE 2.5MM		
	37 3585	SIDE SPRING C=0.9 - GOLD (2)		
_				

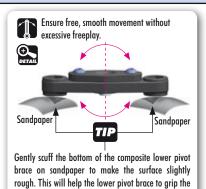




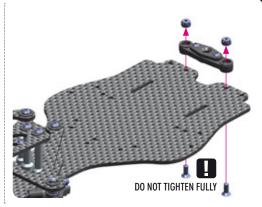


2. REAR SUSPENSION

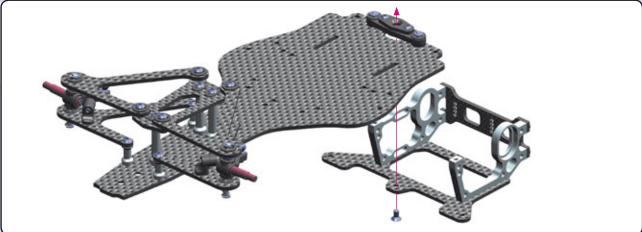




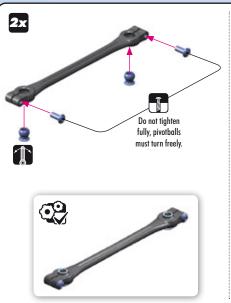
chassis surface better.

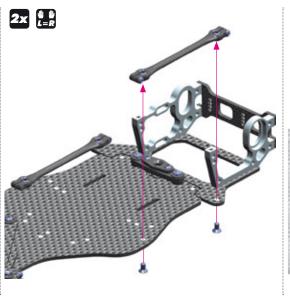






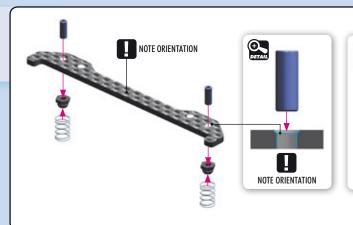


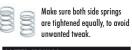












SOFTER SPRINGS

Makes the car easier to drive on low-traction tracks but more difficult to drive on high-traction tracks.

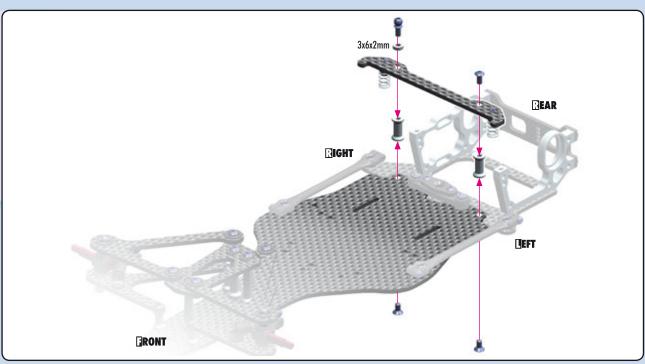
HARDER SPRINGS

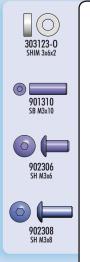
Improves steering response, but also increases traction rolling.

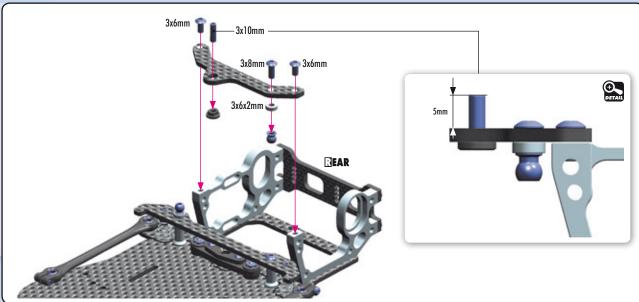


2. REAR SUSPENSION

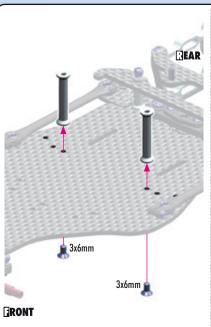


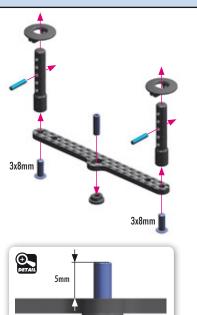


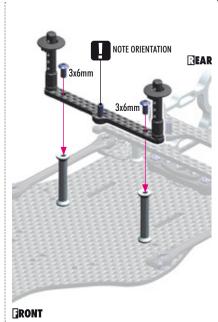




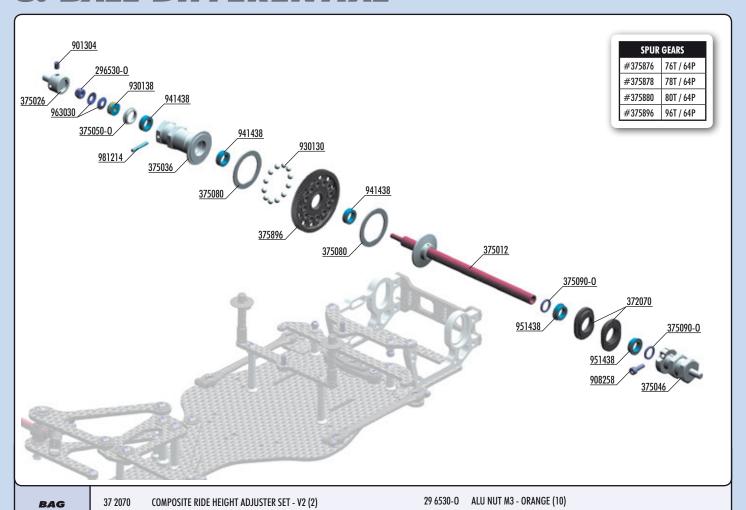








3. BALL DIFFERENTIAL





03

37 5012

37 5026

37 5036 37 5046

37 5050-0

37 5090-0

37 5080

37 5896

STEEL REAR AXLE SHAFT - HUDY SPRING STEEL™

SET OF ALU SHIMS 6.37x8.4MM (0.5MM, 1.0MM, 2.0MM) - ORANGE

X1 ALU REAR DRIVE AXLE - RIGHT

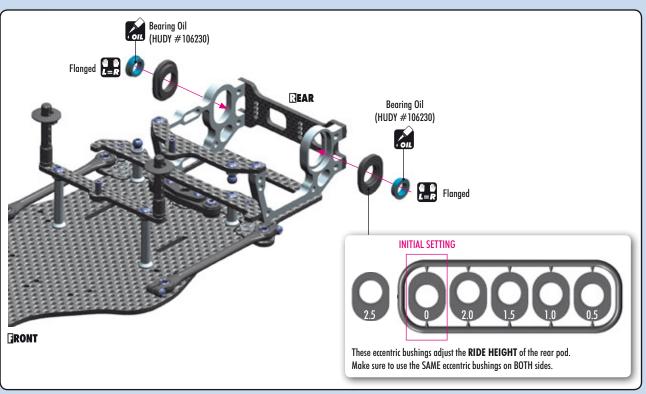
X1 ALU REAR WHEEL HUB - RIGHT

COMPOSITE SPUR GEAR - 96T / 64P

X1 ALU REAR WHEEL HUB - LEFT

ALU DIFF HUB - ORANGE

D-LOCK DIFF PLATE (2)



90 1304

90 8258

93 0130

93 0138

94 1438

95 1438

96 3030

98 1214

HEX SCREW SB M3x4 (10)

CARBIDE BALL 3.175MM (12)

CONE WASHER ST 3x8x0.5 (10)

PIN 2x14 (10)

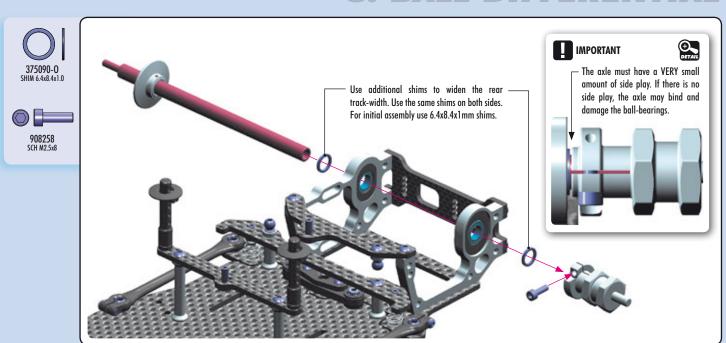
HEX SCREW SOCKET HEAD CAP M2.5x8 (10)

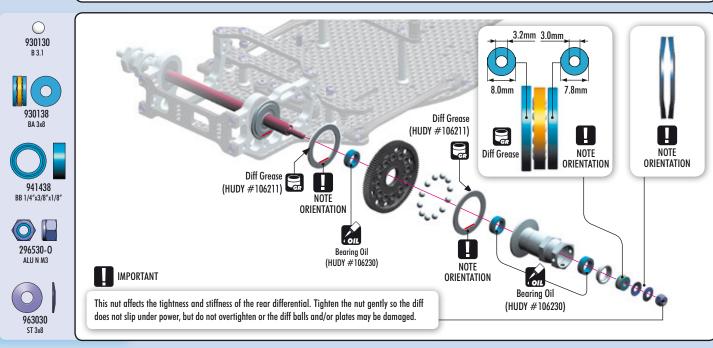
CARBIDE BALL-BEARING AXIAL F3-8 3x8x3.5 - V2

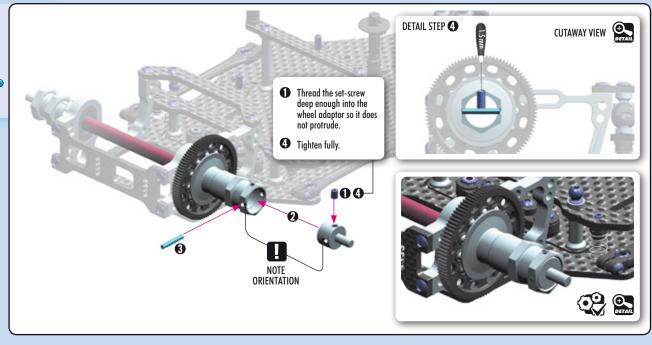
BALL-BEARING 1/4" x 3/8" x 1/8" FLANGED (2)

HIGH-SPEED BALL-BEARING 1/4"x3/8"x1/8" RUBBER SEALED (2)

3. BALL DIFFERENTIAL

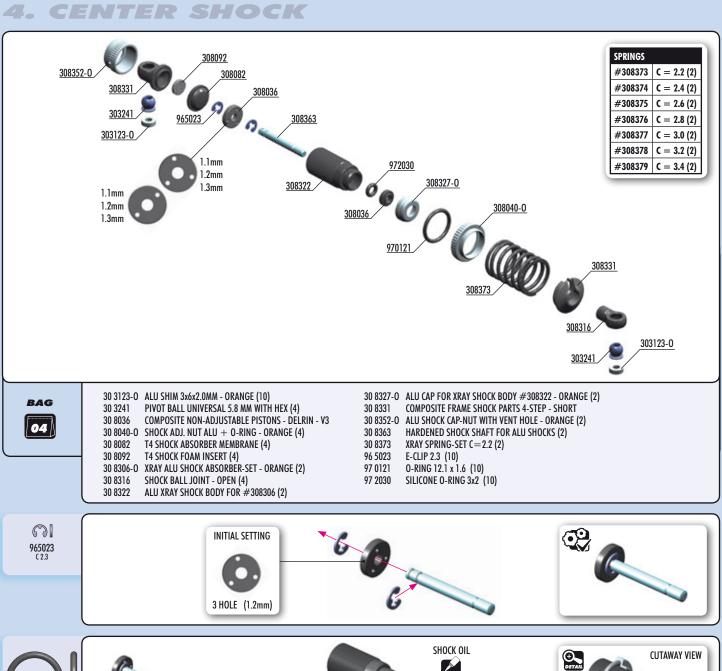


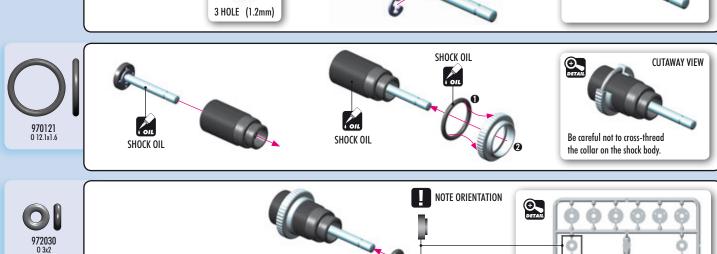


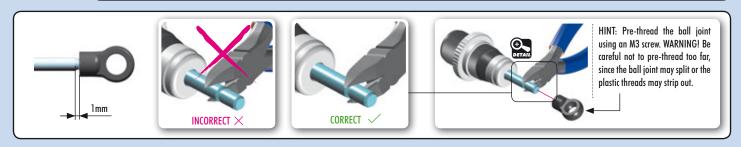


901304 SB M3x4

981214 P 2x14







SHOCK OIL

SHOCK OIL (600cSt INITIAL SETTING)

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



CENTER SHOCK OIL ADJUSTMENT

SOFTER OIL

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

HARDER OIL

Recommend for flat and higher traction tracks, improves steering response.

HUDY SH	OCK OILS	1
#106335	350cSt	1
#106340	400cSt	1
#106345	450cSt	1
#106350	500cSt	1
#106355	550cSt	1
#106360	600cSt	1
#106370	700cSt	1
#106380	800cSt	ı





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

Fully tighten the cap and clean off any excess oil.

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

Follow the next procedure to adjust the rebound.

RELEASE 2-3 turns

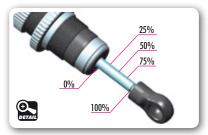




AFTER THE SHOCK IS ASSEMBLED YOU HAVE TO SET THE SHOCK REBOUND.

- 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 - repeat step 2 and 3 two - three times

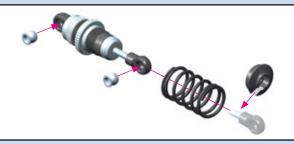
75% rebound - repeat step 2 and 3 until the shock shaft will push out 75% of its length

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

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

0% rebound - repeat step 2 and 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.

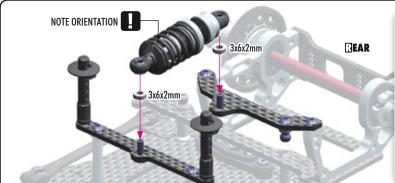


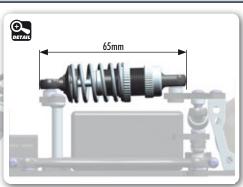
DOWNSTOP ADJUSTMENT

The length of the shock absorber affects the amount of rear downstop. To adjust, thread the ball joint on or off the shock shaft.

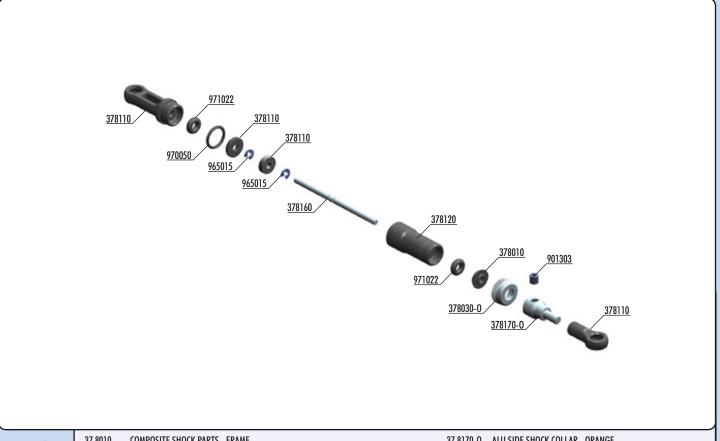








4. SIDE SHOCK



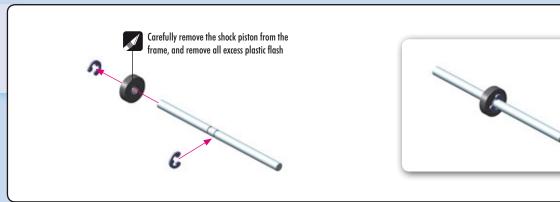
BAG 04.1

COMPOSITE SHOCK PARTS - FRAME ALU SHOCK BODY CAP - LOWER - ORANGE 37 8010 37 8030-0 37 8100 SIDE SHOCK ABSORBER SET 37 8110 COMPOSITE SIDE SHOCK PARTS - FRAME ALU SIDE SHOCK BODY - HARDCOATED 37 8120 37 8160 SIDE SHOCK SHAFT

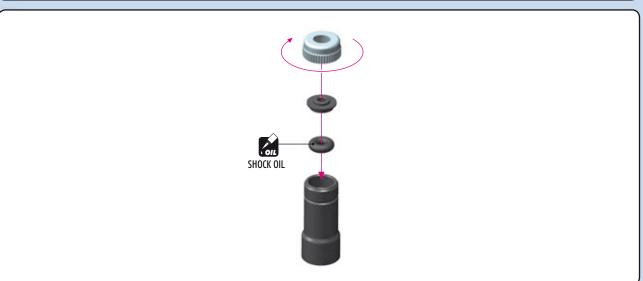
37 8170-0 ALU SIDE SHOCK COLLAR - ORANGE

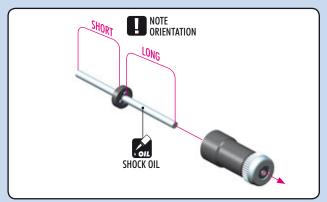
HEX SCREW SB M3x3 (10) 90 1303 96 5015 E-CLIP 1.5 (10) O-RING 5x1 (10) SILICONE O-RING 2x2 (10) 97 0050 97 1022

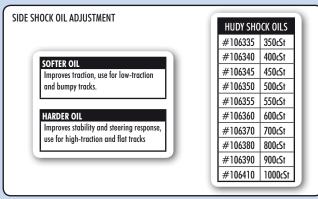


















Extend the shock shaft completely. Fill the shock shaft body with the shock oil, but only 1/3 full.



1 Slowly move the shock shaft up so the shock oil flows under the shock piston.
2 Extend the shock shaft.



Extend the shock shaft completely to release the air trapped beneath the shock piston. Fill the shock shaft body with shock oil, but not fully. The oil level should be approx. 3mm from the top of the shock body.



Install the 5x1 O-ring onto the shock shim.

Place the shock shim

(with O-ring) into the shock body

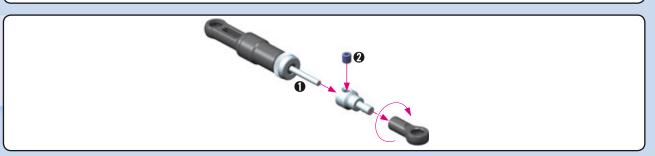
Solution Insert the 2x2 O-ring into the

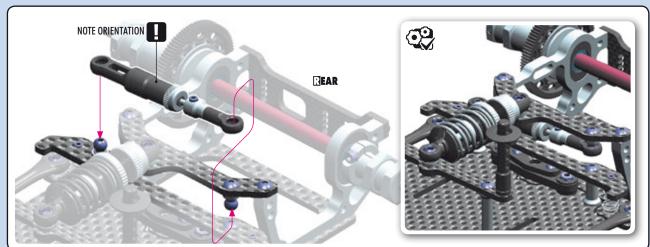
shock cap.
Install the shock cap.

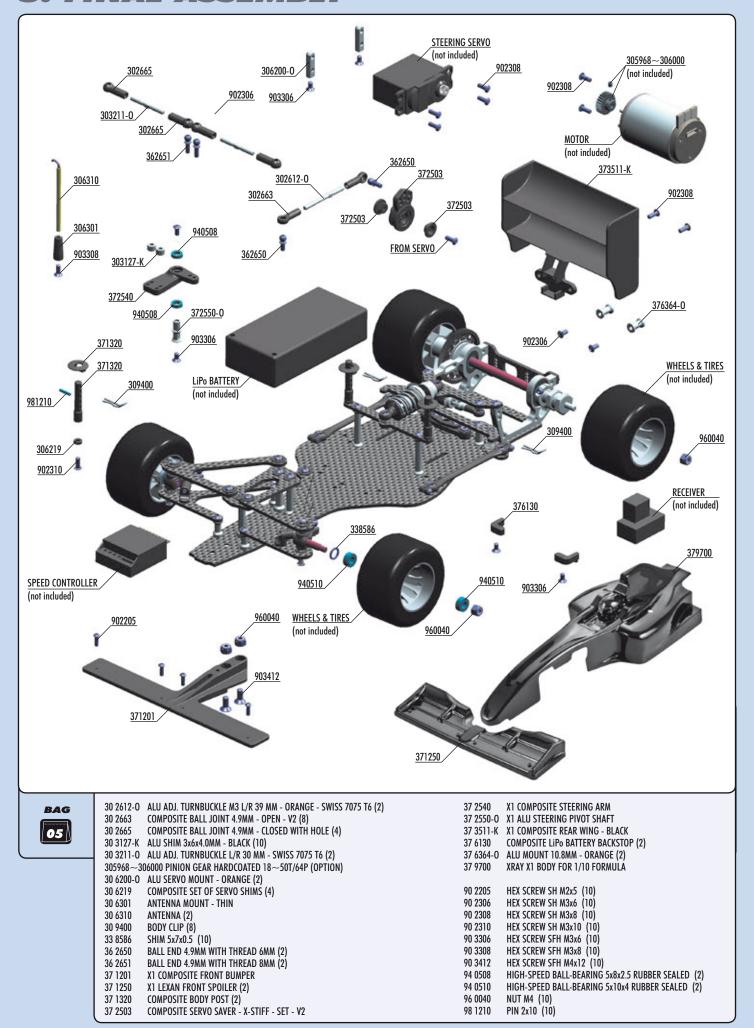


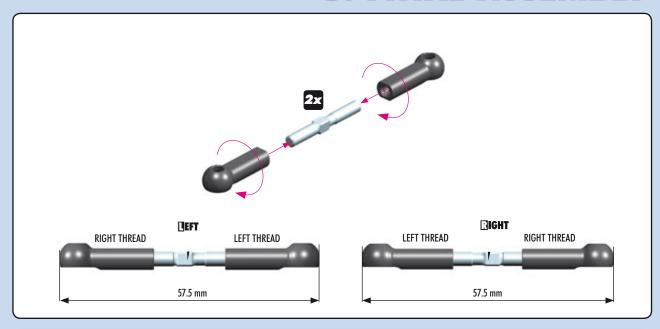
Fully thread the shock cap into the filled shock body. Excess oil will spill from the shock. Tighten completely.

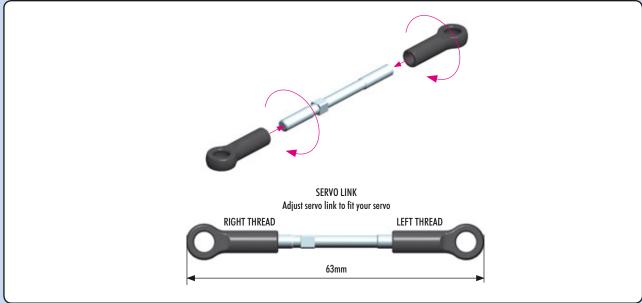






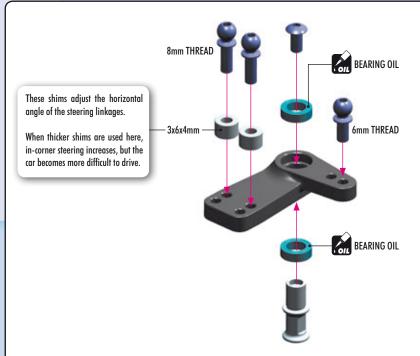








940508 BB 5x8x2.5



The steering arm has two position for servo linkage mounting.

INNER position: Makes the car more responsive.

OUTER position: Makes the car easier to drive.

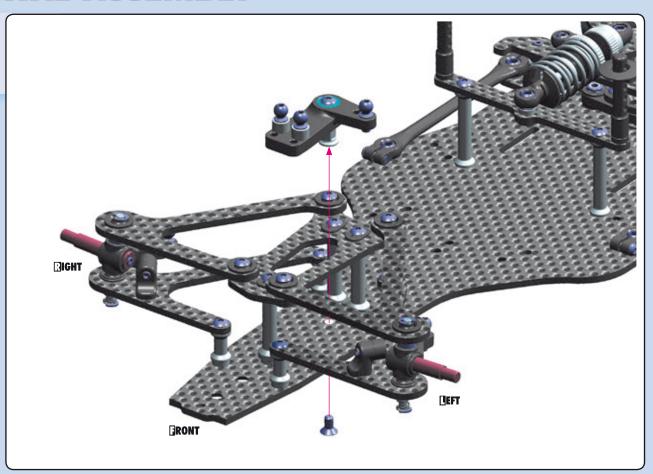
INITIAL SETTING

There are two Ackermann positions on the steering arm.

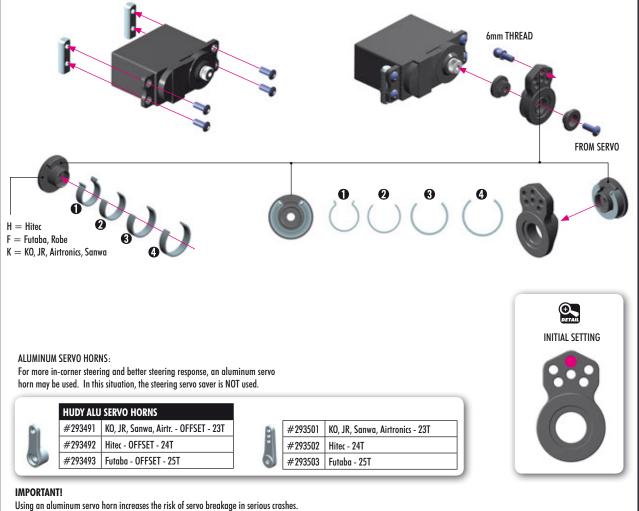
INNER position: Less Ackermann, makes the car more responsive, improves in-corner steering.

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

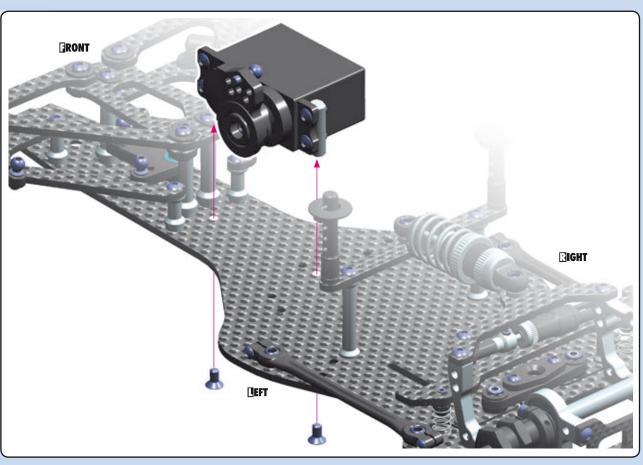


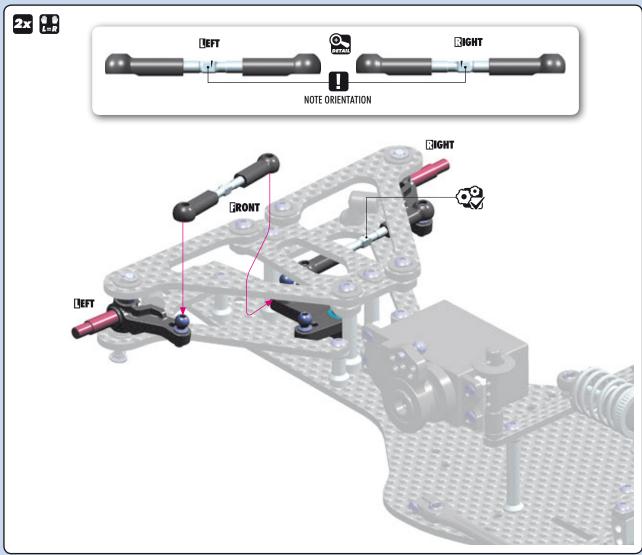


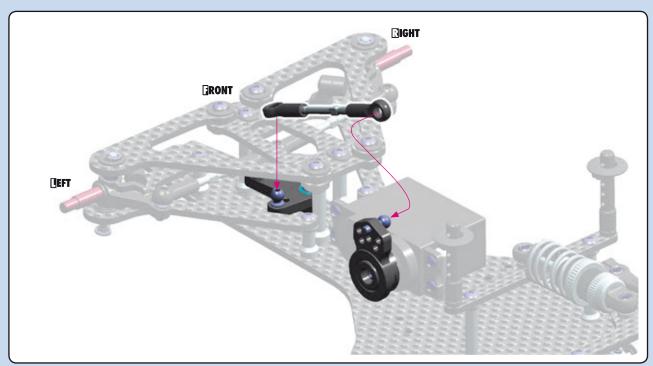




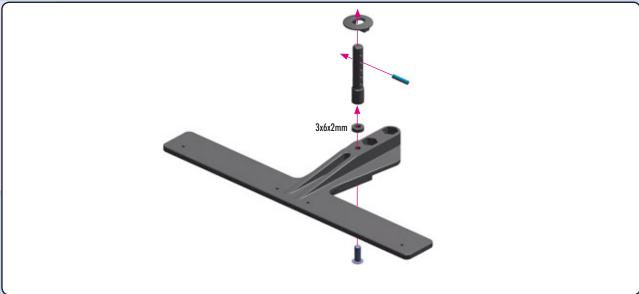




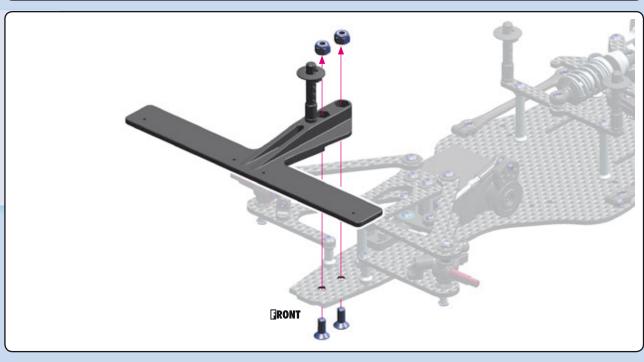








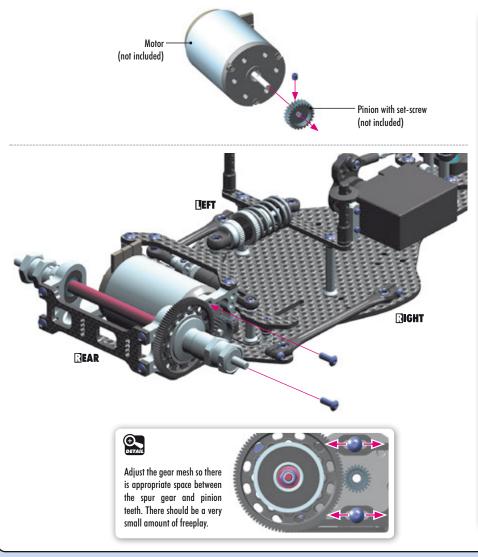




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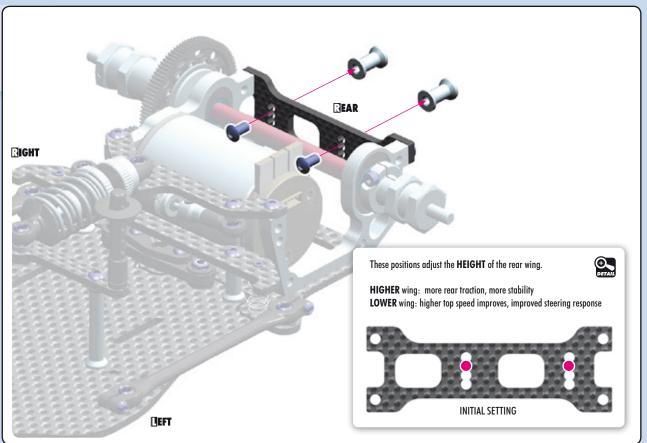


901302 SB M3x2.5



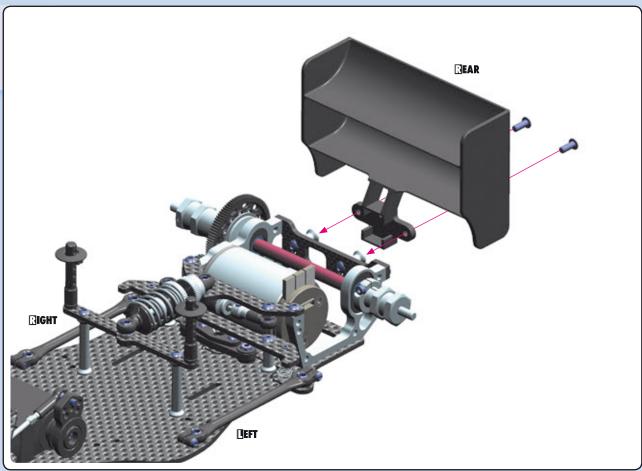
PINION GEA	ARS ALU HARDCOATED
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#305969	19T / 64P (option)
#305970	20T / 64P (option)
#305971	21T / 64P (option)
#305972	22T / 64P (option)
#305973	23T / 64P (option)
#305974	24T / 64P (option)
#305975	25T / 64P (option)
#305976	26T / 64P (option)
#305977	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)
#305998	48T / 64P (option)
#306000	50T / 64P (option)



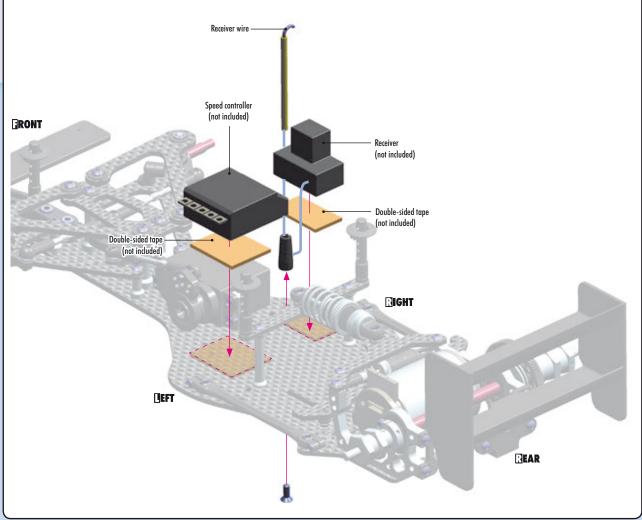




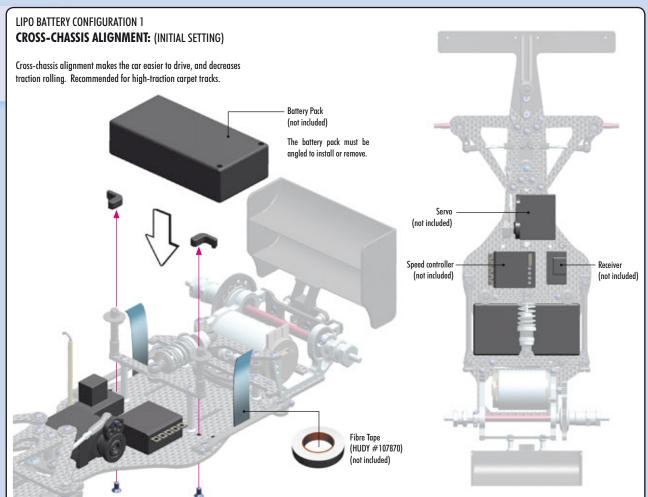




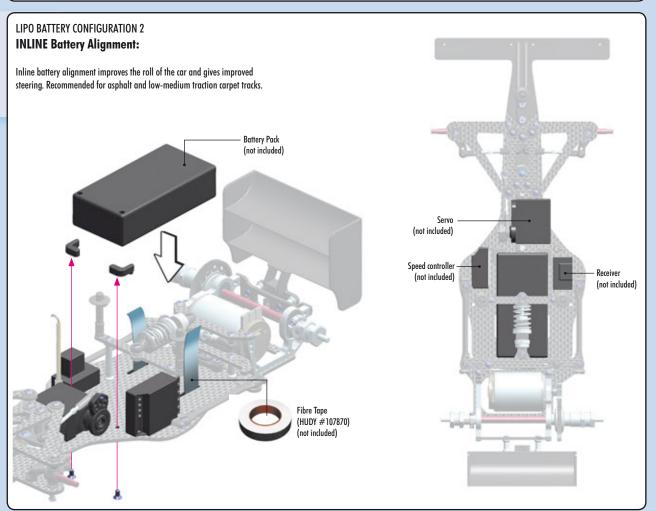


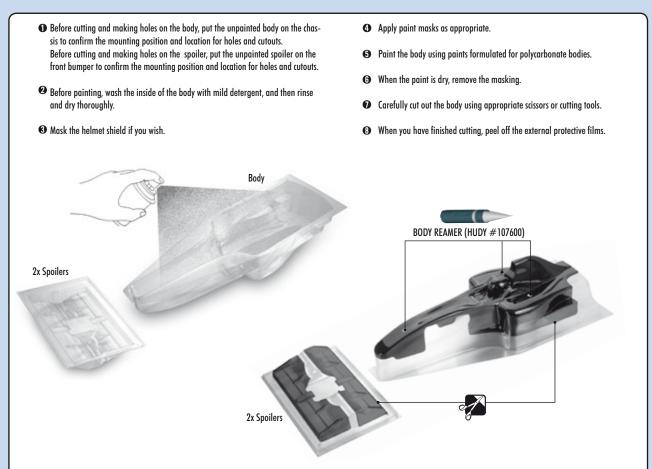


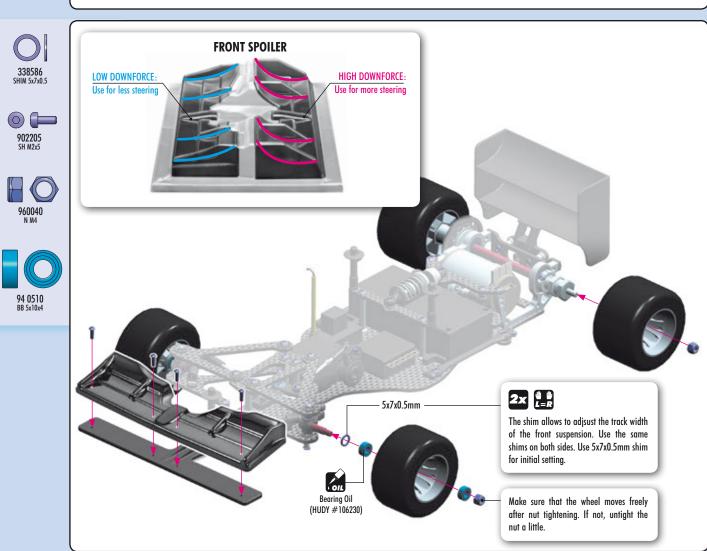












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