

#### INTRODUCTION

The XRAY XB4 is a modern, high-competition premium luxury racing 1/10 electric 4WD off-road buggy that is the epitome of high-performance and fine distinctive design. Your XB4 offers highest performance, responsive handling, and traditionally exceptional XRAY quality, engineering, and design. The superb craftsmanship and attention to detail are clearly evident everywhere on the XRAY XB4.

XB4 was designed around a no compromise platform; the attention to detail creates a low maintenance, extra long life nitro buggy. The ultra-low center of gravity (CG) and optimized weight balance makes set-up, driving, and maintenance easy and quick.

#### **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

The XRAY XB4 was created by blending highest-quality materials and excellent design. On high-speed flat tracks or bumpy tracks, whether driving for fun or racing to win, the XB4 delivers outstanding performance, speed, and precision handling.

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.

#### XRAY Europe

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# XRAY USA

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Fax: (214) 744-2401 Email: 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.

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 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 left and right

sides the same way

Apply cleaner







M



Apply CA glue







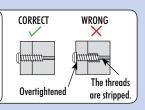
0 0 0







Assemble as many times



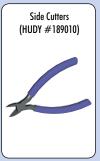


### TOOLS REQUIRED





















# **EQUIPMENT** INCLUDED





# NOT INCLUDED



To ensure that you always have access to the most up-to-date version of the Set-up Book you can download the HUDY Set-up Book from their web site at www.hudy.net. By offering this online version instead of including a hardcopy printed version in kits, you will always be assured of having the most current updated version.

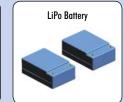
SAMPLE OF OPTIONAL PARTS				
#36XXXX	OPTION 1			
#36XXXX	OPTION 2			
#344444	UDTIUN 3			

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 #36XXXX OPTION 3 the kit while all other parts are available only as an optional part and must be purchased separately.

# **EQUIPMENT REQUIRED**



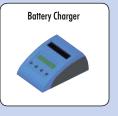
Speed Controller



















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### **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:

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

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

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

# XB4 TECH TIPS

# **TIP DRIVE SHAFT PINS SERVICING**

To enjoy the longest possible lifespan of the drive shafts and diff outdrives, it is extremely important to properly service the drive shaft pins. Inspect the pins after every 3 hours of runtime. If the pins show any wear, replace them with new pins.



Do not use drive shafts when the pins are worn.

Press out the worn pins.

Press in new pins and regularly inspect for wear.



For easy and comfortable drive pin replacements use #106000 HUDY Drive Pin Replacement Tool.



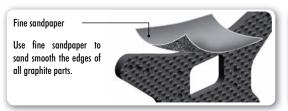
To replace the worn pins use only the premium HUDY drive pins #106051.

# **TIP** GRAPHITE PARTS PROTECTION

Follow this tech tip to protect the graphite parts.

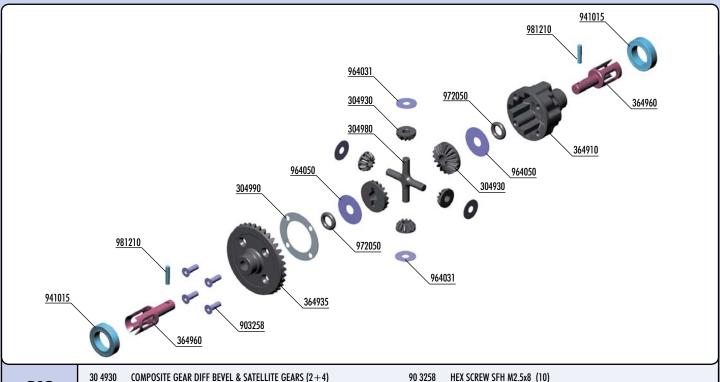
# Protect all XB4 Graphite Parts:

- · Front shock tower
- Rear shock tower





# 1. FRONT & REAR DIFFERENTIAL



BAG 01

36 4960

30 4930 COMPOSITE GEAR DIFF BEVEL & SATELLITE GEARS (2+4)
30 4980 COMPOSITE GEAR DIFF CROSS PIN
30 4990 DIFF GASKET (4)
36 4900 GEAR DIFFERENTIAL - SET
36 4910 COMPOSITE GEAR DIFFERENTIAL CASE
36 4935 COMPOSITE DIFF. BEVEL GEAR 35T

GEAR DIFF OUTDRIVE ADAPTER - HUDY SPRING STEEL™ (2)

90 3258 HEX SCREW SFH M2.5x8 (10)
94 1015 HIGH-SPEED BALL-BEARING 10x15x4 RUBBER SEALED (2)
96 4031 WASHER S 3.5x10x0.2 (10)
96 4050 WASHER S 5x15x0.3 (10)
97 2050 SILICONE 0-RING 5x2 (10)
98 1210 PIN 2x10 (10)

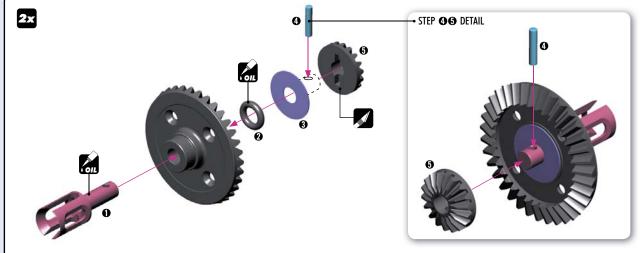






972050 O 5x2

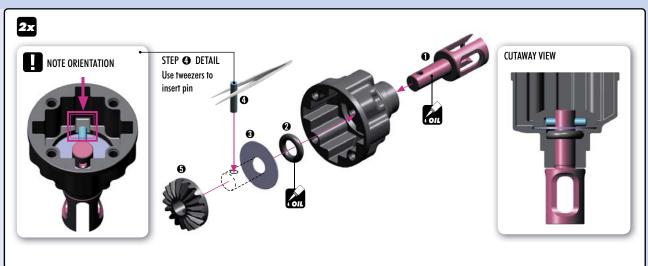








981210 P 2x10







#### TO ENSURE YOU HAVE THE SAME AMOUNT OF OIL FROM REBUILD TO REBUILD, DO THE FOLLOWING:



1 Put the diff (without oil) on the scale and check the weight (approximately 9.80g)

② Slowly pour oil into the diff and watch the weight. Add 1.32g of oil into the diff. The approximate weight of the diff including oil is 11.12g.

### TIPS FOR DIFFERENTIALS

FRONT DIFERENTIAL TIP

REAR DIFERENTIAL

TIP

LOW TRACTION 5 000cSt (HUDY #106450) 10 000cSt (HUDY #106510) MEDIUM-HIGH TRACTION SUPER-HIGH TRACTION 10 000cSt (HUDY #106510) LOW TRACTION 2 000cSt (HUDY #106420) MEDIUM-HIGH TRACTION 5 000cSt (HUDY #106450) SUPER-HIGH TRACTION 10 000cSt (HUDY #106510)

#### NOTE:

Softer oil increases steering, harder oil increases stability of the car.

#### NOTE:

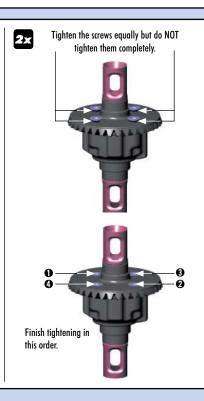
Softer oil increases rear traction, harder oil increases on-power steering.

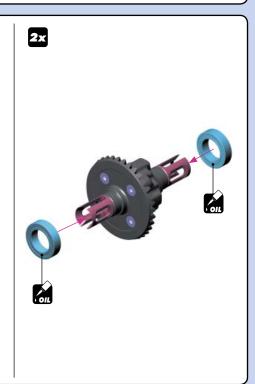
SET-UP BOOK **DIFFERENTIAL OIL** 



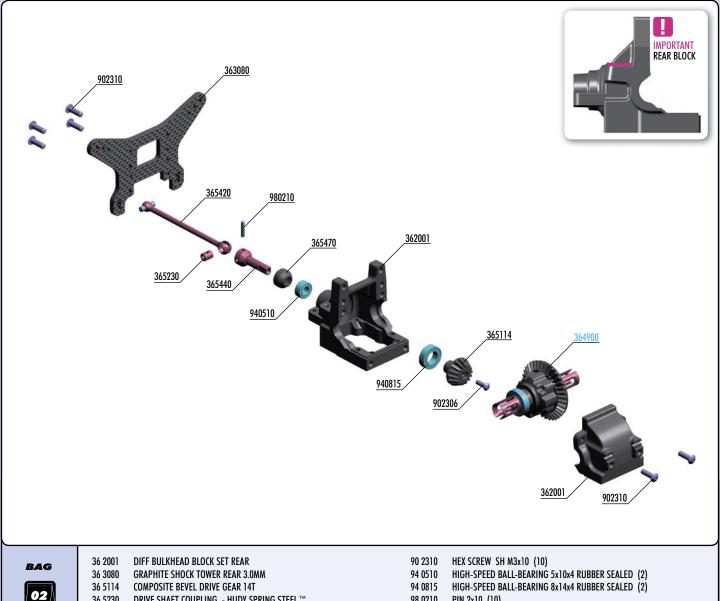








# 2. REAR CENTRAL TRANSMISSION



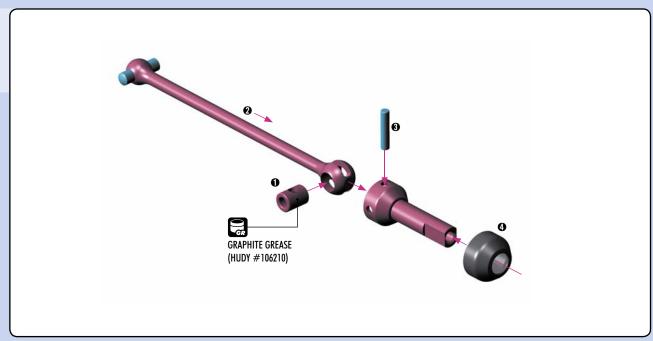
02

DRIVE SHAFT COUPLING - HUDY SPRING STEEL  $^{\scriptscriptstyle\mathsf{TM}}$ 36 5230 36 5420 CENTRAL DRIVE SHAFT 88MM - HUDY SPRING STEEL™ 36 5440 CENTRAL SHAFT UNIVERSAL JOINT COMPOSITE DRIVE SHAFT SAFETY COLLAR (3) 36 5470 90 2306 HEX SCREW SH M3x6 (10)

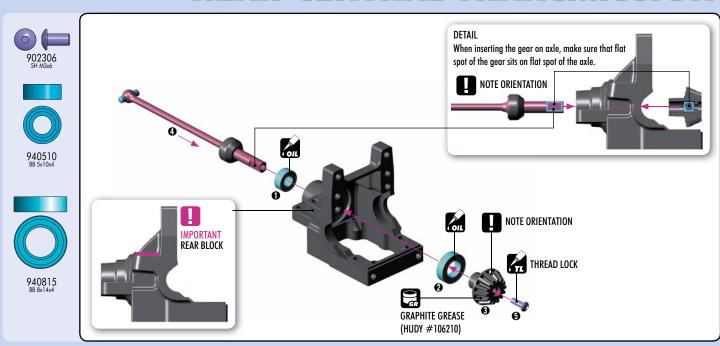
98 0210 PIN 2x10 (10)

36 4900 GEAR DIFFERENTIAL - SET

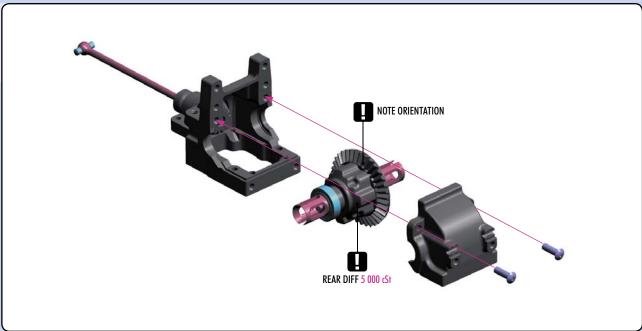




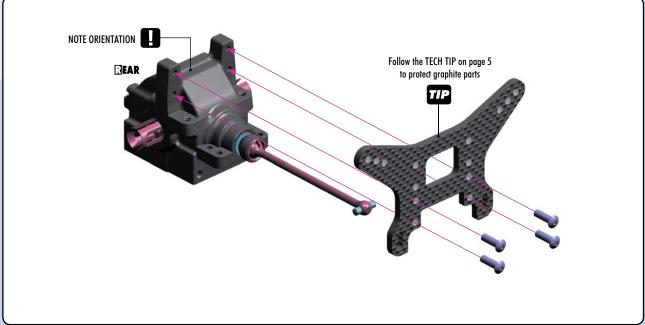
# REAR CENTRAL TRANSMISSION



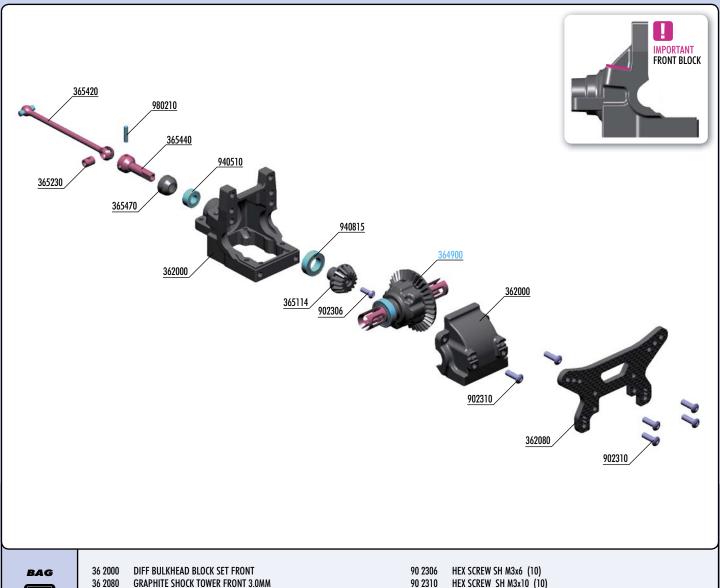








# 2. FRONT CENTRAL TRANSMISSION



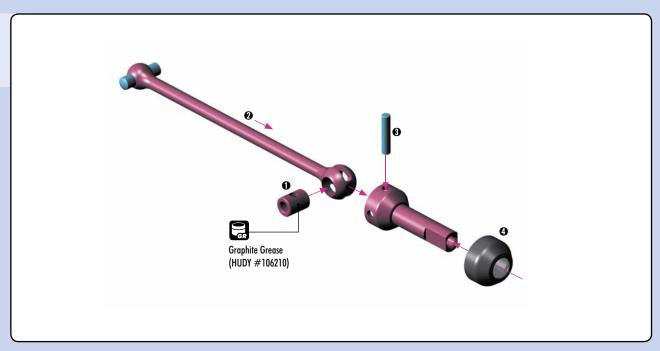
02

36 2000 DIFF BULNHEAD BLOCK SET FRONT
36 2010 GRAPHITE SHOCK TOWER FRONT 3.0MM
36 2010 COMPOSITE BEVEL DRIVE GEAR 14T - KEVLAR GRAPHITE
36 5230 DRIVE SHAFT COUPLING - HUDY SPRING STEEL™
36 5420 CENTRAL DRIVE SHAFT 88MM - HUDY SPRING STEEL™
36 5440 CENTRAL SHAFT UNIVERSAL JOINT
36 5470 COMPOSITE DRIVE SHAFT SAFETY COLLAR (3)

90 2306 HEX SCREW SH M3x6 (10) 90 2310 HEX SCREW SH M3x10 (10) 94 0510 HIGH-SPEED BALL-BEARING 5x10x4 RUBBER SEALED (2) 94 0815 HIGH-SPEED BALL-BEARING 8x14x4 RUBBER SEALED (2) 98 0210 PIN 2x10 (10)

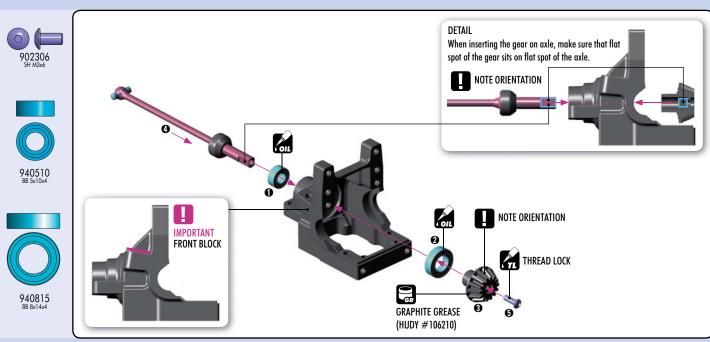
**GEAR DIFFERENTIAL - SET** 

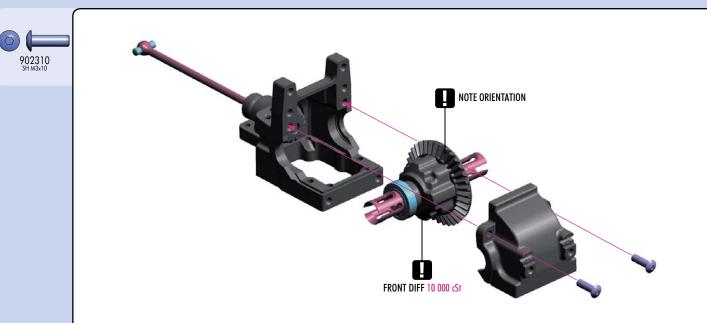


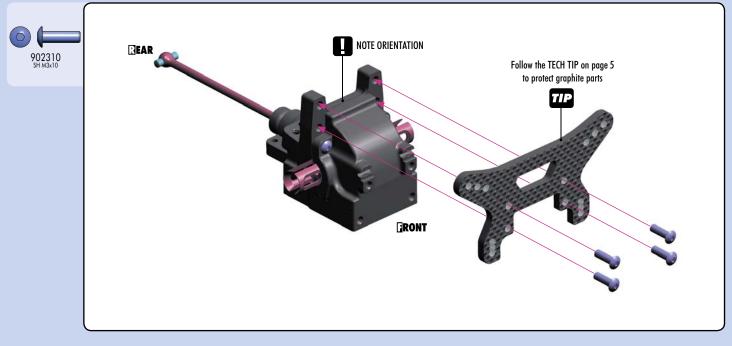


36 4900

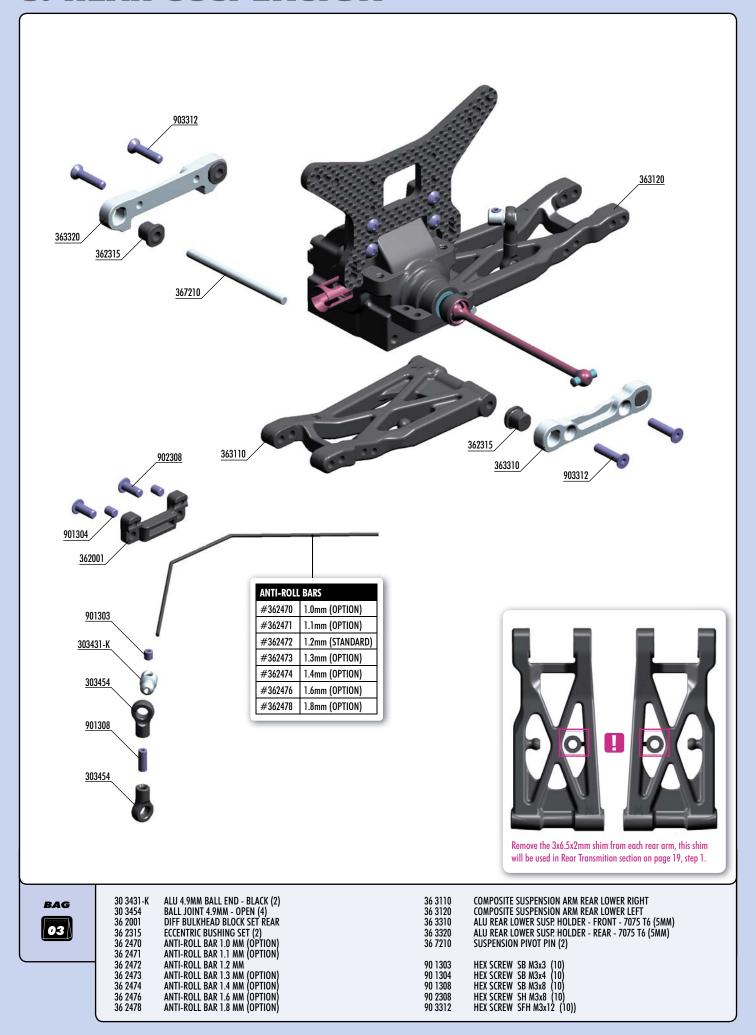
# FRONT CENTRAL TRANSMISSION



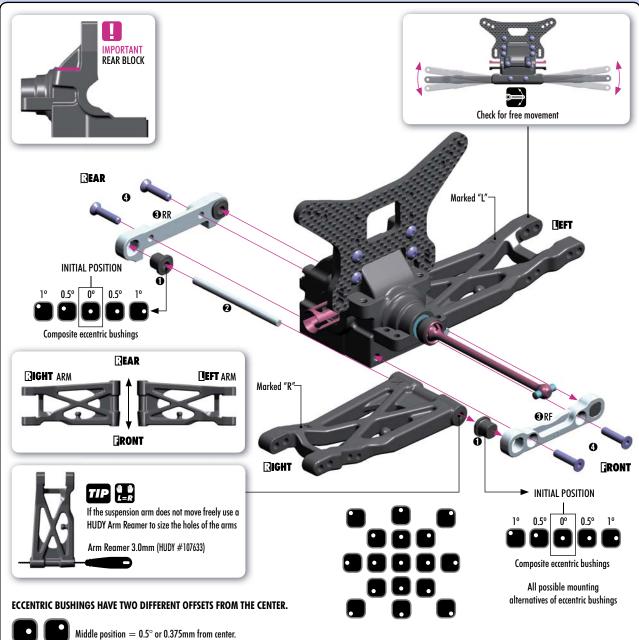




### 3. REAR SUSPENSION







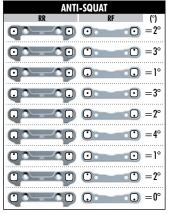
SET-UP BOOK TOE-IN ANTI-SQUAT **ROLL CENTER** TRACK WIDTH



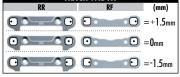


Outer position  $= 1^{\circ}$  or 0.75mm from center.

The XRAY rear alu lower suspension holders provide great range of adjustment for the rear suspension. Using different combinations of eccentric bushings, fine adjustment of rear anti-squat, rear toe-in, rear roll center, and rear track-width can be obtained. For more information about the influence of rear anti-squat, rear toe-in, rear roll center and rear track width on car handling, please refer to HUDY Set-up Book (#209100).



ROLL-CENTER					
RR	RF	(mm)			
0 0	0 0	=+0.75 <sub>mm</sub>			
0 0	0 0	=0 <sub>mm</sub>			
0 0	0 0	=-0.75 <sub>mm</sub>			



The track width is directly influenced by the size of the wheels and tires used.

The tables describe the amounts of adjustment using the center and outside positions of the eccentric bushings.

The middle position eccentric bushings allow for finer adjustment increments.

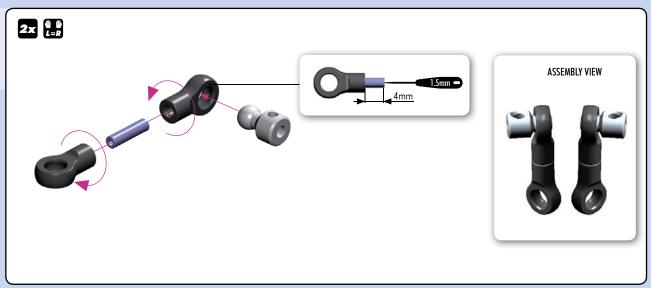
Exam	nle.
LAUIII	pic.



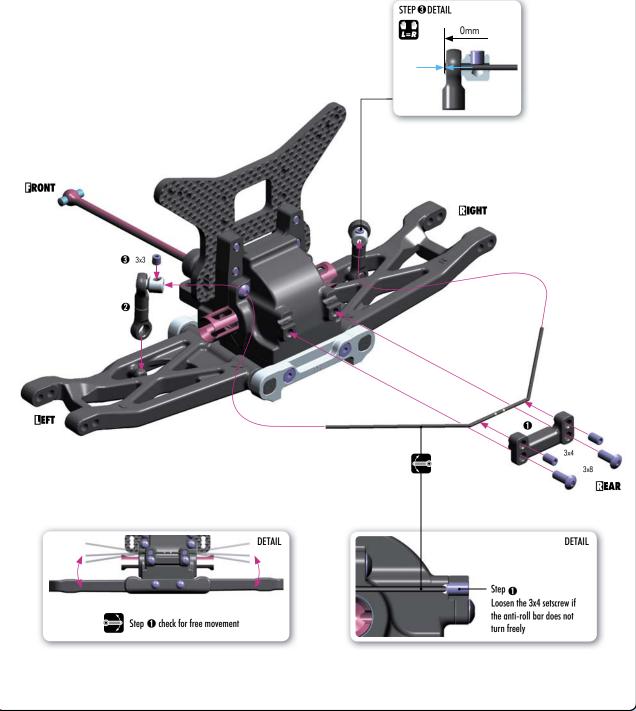
RR		RF	(°)
0 0	0	0	=3°
0	0	0	=4°
0	0	0	= <b>2</b> °
0	0	•••	=2°
0 0	0	0	=3°
0 0	0	0	=1°
0	0	0	=4°
0	0	0	=5°
0	0	0	=3°

# REAR SUSPENSION









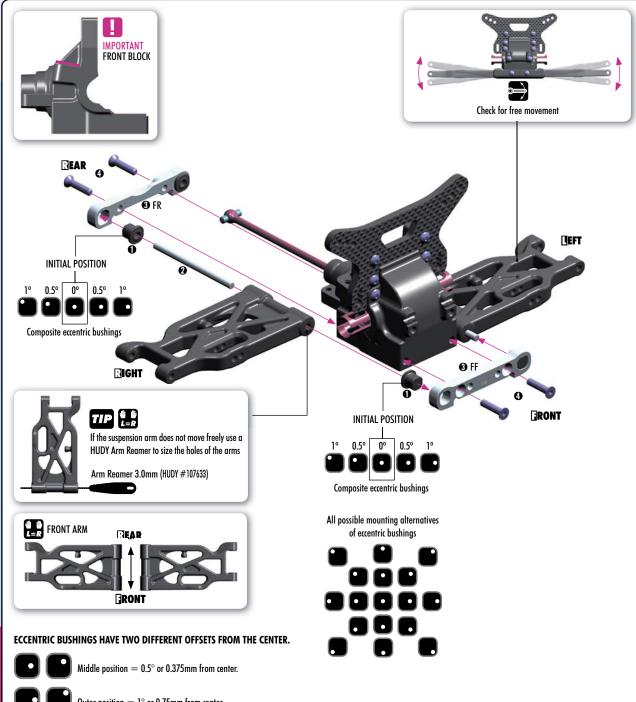
SET-UP BOOK ANTI-ROLL BAR

# 3. FRONT SUSPENSION



#### FRONT SUSPENSION





SET-UP BOOK KICK UP **ROLL CENTER** TRACK WIDTH



Outer position  $= 1^{\circ}$  or 0.75mm from center.

The XRAY alu front lower suspension holders provide great range of adjustment for the front suspension. Using different combinations of eccentric bushings, fine adjustment of front kick-up, roll-center, and front track-width can be obtained. For more information about the influence of kick-up, front track-width, and roll centers on car handling, please refer to HUDY Set-up Book (#209100).

KICK-UP				
FF	FR	(°)		
02-20	0	<b>●</b> 9°		
0220	0	=8°		
00000	0	=10°		
00000	0	=8°		
00	0	=7°		
0.000	0	<b>■</b> =9°		
0220	0	=10°		
0220	0	=9°		
00	Q.	=11°		

ROLL-CENTER					
FF	FR	(mm)			
00000	0 0=	+0.75mm			
000	0	= Omm			
02-20		=-0.75mm			

TRACK WIDTH					
FF	FR	(mm)			
02-20	0 0	=+1.5mm			
0200	0 0	= Omm			
0	0-0	=-1.5mm			

The track width is directly influenced by the size of the wheels and tires used.

The tables describe the amounts of adjustment using the center and outside positions of the eccentric bushings.

The middle position eccentric bushings allow for finer adjustment increments.

$$O(FF) - O(FR) = 9^{\circ}$$

0.5(FF) - 0(FR) = $9.5^{\circ}$	O 20 "	000	0	•
		_		

 $1(FF) - 0(FR) = 10^{\circ}$ 

	= 9.5
0	• = 10°

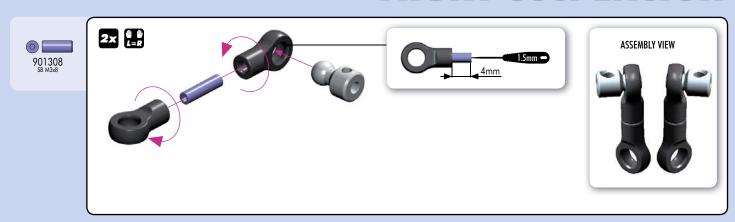
### TOTAL CASTER=C-HUB CASTER+KICK UP

	KICK-UP				
C-HUB CASTER	7°	8°	9°	10°	11°
6°	13°	14°	15°	16°	17°
9°	16°	1 <b>7</b> °	18°	19°	<b>20</b> °

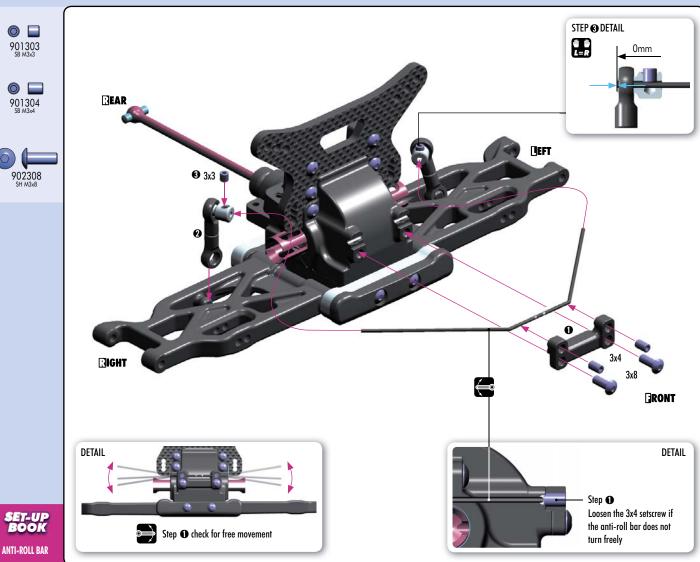
Caster is the angle between the steering pivot axis and the vertical plane. Caster is affected not only by the C-Hub caster, but also by the front kick-up angle relative to the flat chassis bottom. The table indicates how kick up angle effects total caster.

The XB4's stock caster blocks are 9°, but 6° blocks are available as an option.

# FRONT SUSPENSION







### 4. REAR TRANSMISSION



BAG



COMPOSITE BALL JOINT 4.9MM - CLOSED WITH HOLE (4) ADJ. TURNBUCKLE M3 L/R 50 MM - SPRING STEEL (2) 30 2665 36 2610 36 2650 BALL END 4.9MM WITH THREAD 6MM (2) 36 2651 BALL END 4.9MM WITH THREAD 8MM (2) 36 3110 **REAR SUSPENSION ARM - RIGHT** REAR SUSPENSION ARM - LEFT 36 3120 COMPOSITE UPRIGHT REAR 36 3350 36 3520 **REAR WING POST (2)** 36 5230 DRIVE SHAFT COUPLING - HUDY SPRING STEEL™ REAR DRIVE SHAFT 68MM - HUDY SPRING STEEL™ 36 5320 REAR DRIVE AXLE - HUDY SPRING STEEL 36 5340

ALU WHEEL HUB 14MM (2)

36 5350

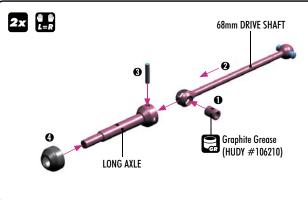
36 5351 ALU WHEEL HUB 14MM - OFFSET "-0.75MM" (2) (OPTION) ALU WHEEL HUB 14MM - OFFSET "+0.75MM" (2) (OPTION) 36 5352 COMPOSITE DRIVE SHAFT SAFETY COLLAR (3) 36 5470 36 7320 **REAR ARM PIVOT PIN (2)** 90 1306 HEX SCREW SB M3x6 (10) 90 2205 HEX SCREW SH M2x5 (10)

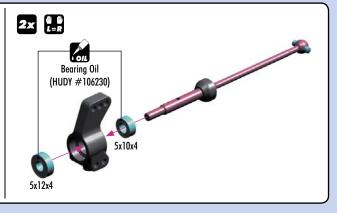
HEX SCREW SH M3x10 (10) 90 2310 HIGH-SPEED BALL-BEARING 5x10x4 RUBBER SEALED (2) 94 0510 94 0512 HIGH-SPEED BALL-BEARING 5x12x4 RUBBER SEALED (2) 96 0030 NUT M3 (10)

PIN 2x10 (10) 98 0210

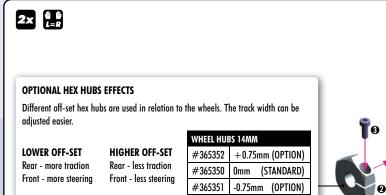




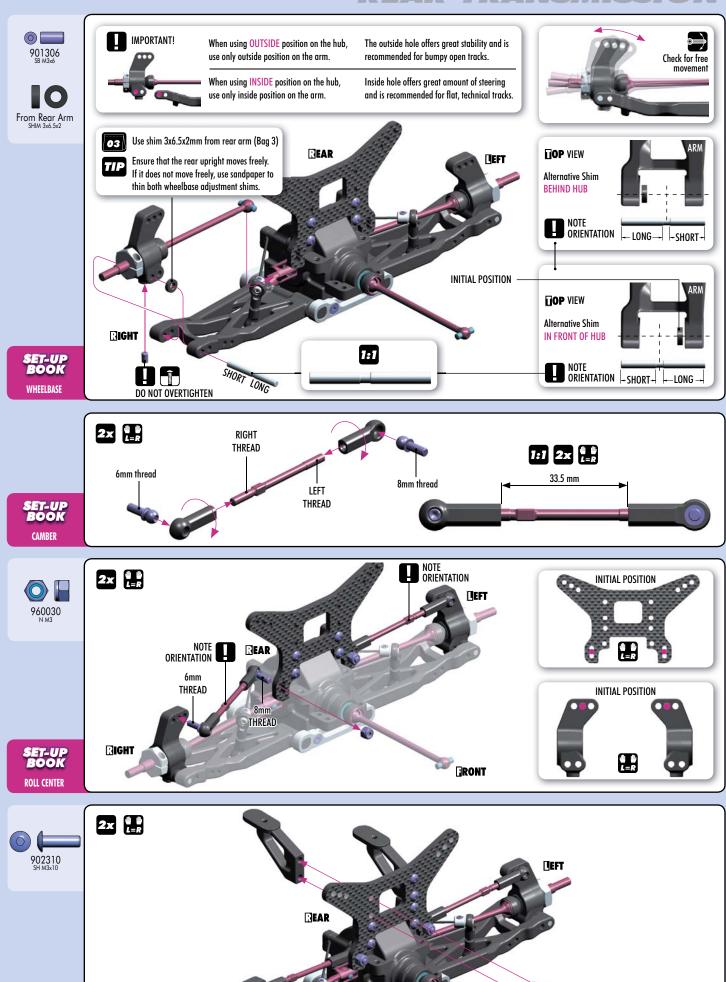






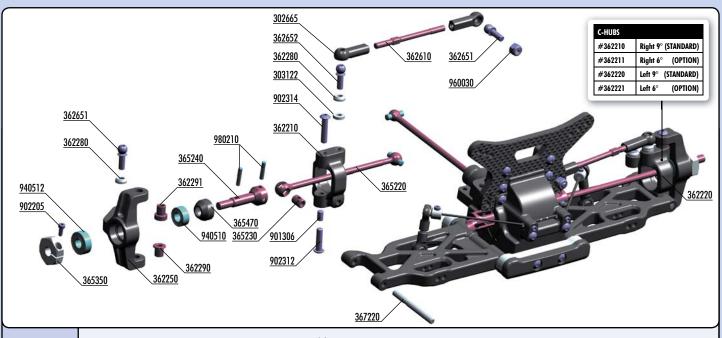


# REAR TRANSMISSION



RONT

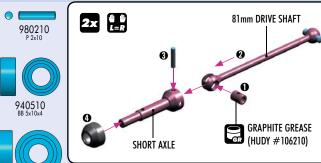
### 4. FRONT TRANSMISSION

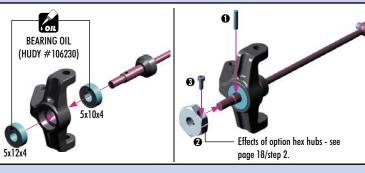


BAG

04

		<u>50: 220</u> )	-	
30 2665 30 3122 36 2210	COMPOSITE BALL JOINT 4.9MM - CLOSED WITH HOLE (4) ALU SHIM 3x6x1.0MM (10) COMPOSITE C-HUB 9° DEG. RIGHT		36 5240 36 5350 36 5351	FRONT DRIVE AXLE - HUDY SPRING STEEL ™ ALU WHEEL HUB 14MM (2) ALU WHEEL HUB 14MM - OFFSET "-0.75MM" (2) (OPTION)
36 2211 36 2220 36 2221	COMPOSITE C-HUB 6° DEG. RIGHT (OPTION) COMPOSITE C-HUB 9° DEG. LEFT COMPOSITE C-HUB 6° DEG. LEFT (OPTION) COMPOSITE STEERING BLOCK		36 5352 36 5470 36 7220	ALU WHEEL HUB 14MM - OFFSET "+0.75MM" (2) (OPTION) COMPOSITE DRIVE SHAFT SAFETY COLLAR (3) FRONT ARM PIVOT PIN (2)
36 2250 36 2280 36 2290 36 2291	ALU CONICAL SHIM 3x6x2.0MM (10) STEEL STEERING BUSHING - SHORT (2) STEEL STEERING BUSHING - LONG (2)		90 1306 90 2205 90 2312	HEX SCREW SB M3x6 (10) HEX SCREW SH M2x5 (10) HEX SCREW SH M3x12 (10)
36 2610 36 2651 36 2652	ADJ. TURNBUCKLE M3 L/R 50 MM - SPRING STEEL (2) BALL END 4.9MM WITH THREAD 8MM (2) BALL END 4.9MM WITH THREAD 10MM (2) FRONT DRIVE CHART 81MM, AUDIS CREIN TM		94 0510 94 0512	HEX SCREW SH M3x14 (10) HIGH-SPEED BALL-BEARING 5x10x4 RUBBER SEALED (2) HIGH-SPEED BALL-BEARING 5x12x4 RUBBER SEALED (2)
36 5220 36 5230	FRONT DRIVE SHAFT 81MM - HUDY SPRING STEEL™ DRIVE SHAFT COUPLING - HUDY SPRING STEEL™		96 0030 98 0210	NUT M3 (10) PIN 2x10 (10)

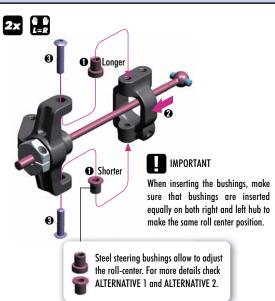


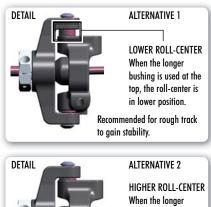




CASTER

**ROLL-CENTER** 



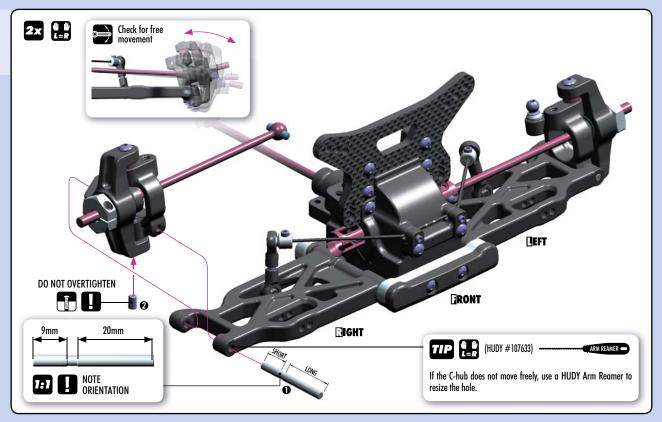


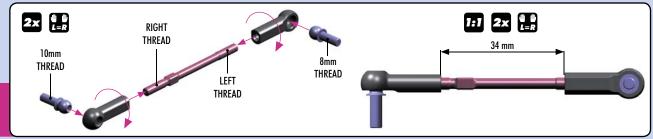




# FRONT TRANSMISSION





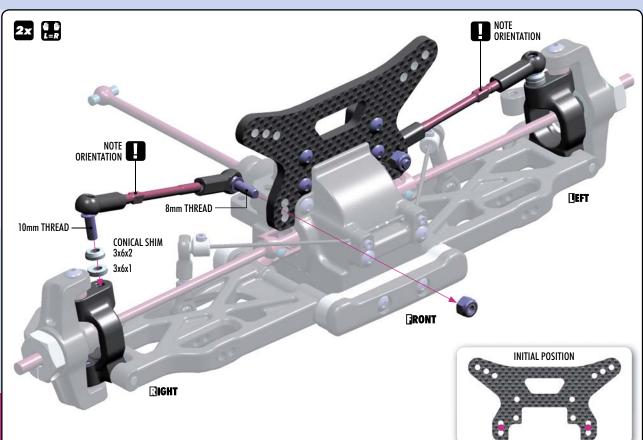


SET-UP BOOK CAMBER



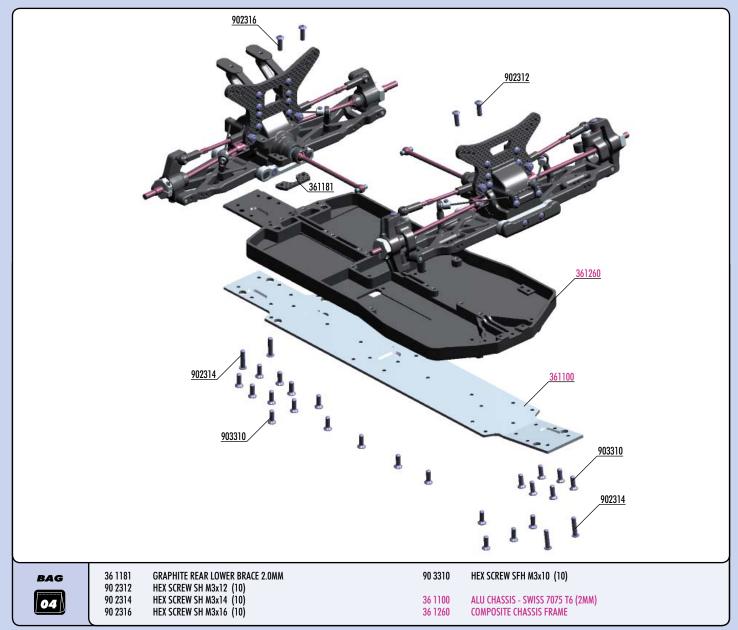




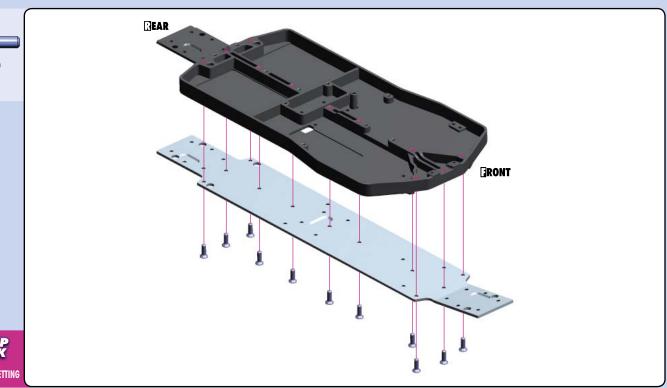


SET-UP BOOK ROLL CENTER

# 4. FRONT & REAR ASSEMBLY

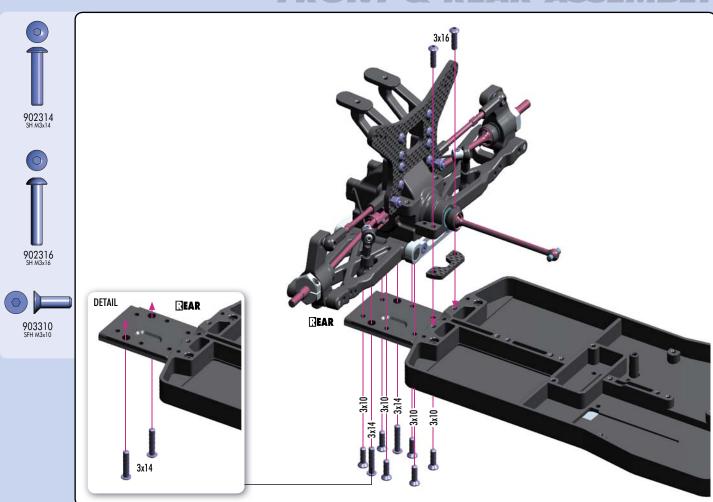


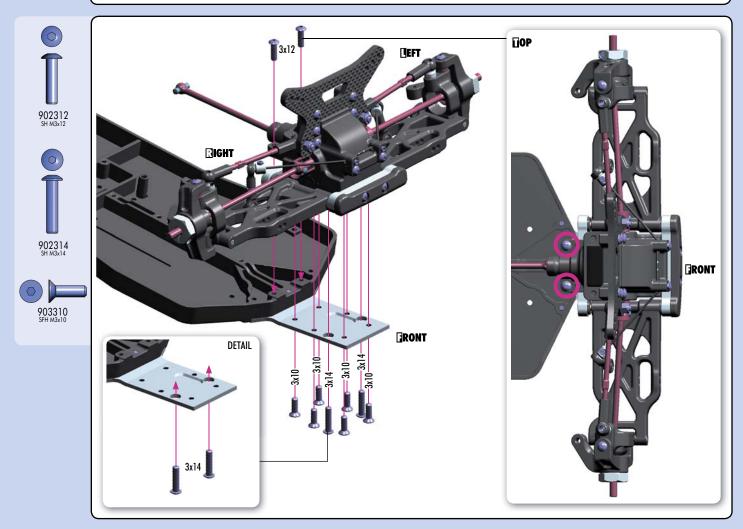






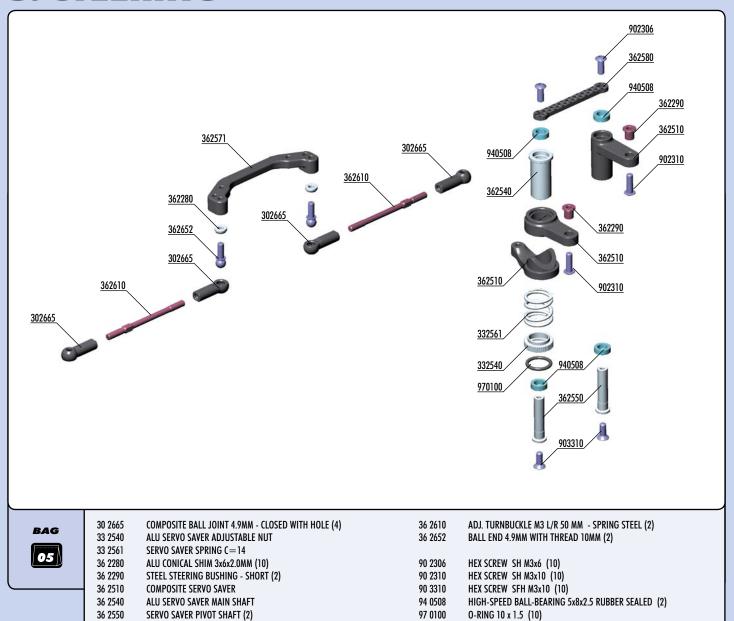
# FRONT & REAR ASSEMBLY





XB4

# 5. STEERING





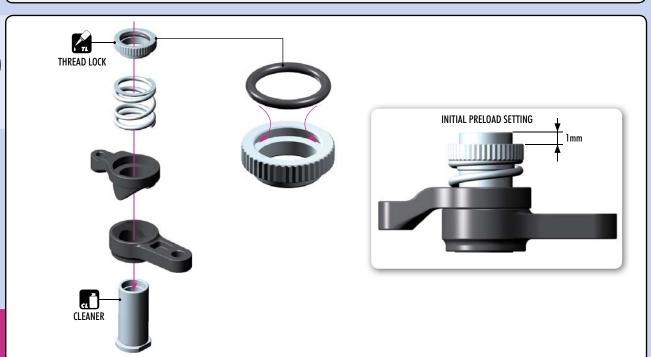
36 2550

36 2571

36 2580

SERVO SAVER PIVOT SHAFT (2)

COMPOSITE STEERING PLATE STEERING BRACE 2.0MM GRAPHITE

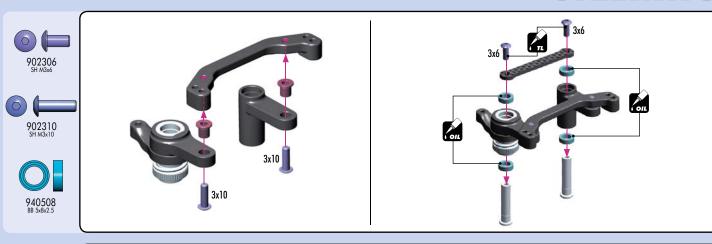


97 0100

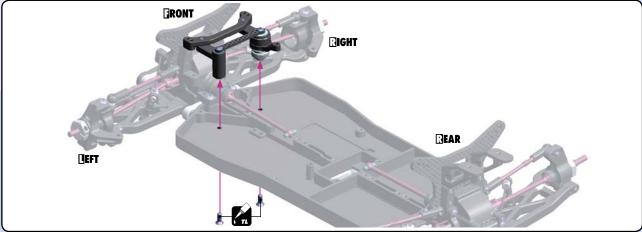


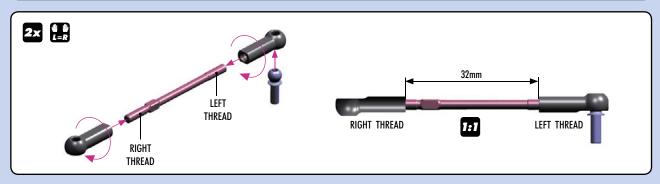


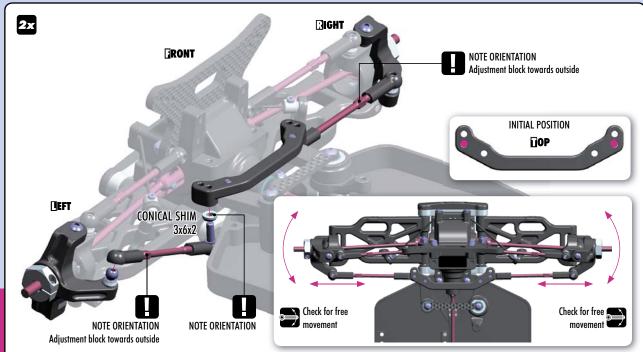
# STEERING











SET-UP BOOK ACKERMANN BUMP STEER TOE-IN

**S** 

# 6. SLIPPER CLUTCH ASSEMBLY



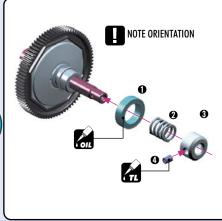
06

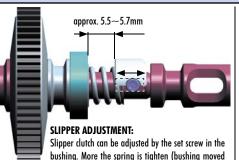
36 1160 36 4010	GRAPHITE FRONT UPPER DECK 2.0MM Alu motor bulkhead	36 5784	COMPOSITE SLIPPER CLUTCH SPUR GEAR 84T / 48 - GRAPHITE (OPTION)
36 4020	COMPOSITE CLUTCH SHAFT HOLDER	90 1304	HEX SCREW SB M3x4 (10)
36 4110	SLIPPER CLUTCH SHAFT - HUDY SPRING STEEL™	90 2305	HEX SCREW SH M3x5 (10)
36 4120	ALU SLIPPER CLUTCH PLATE - 7075 T6 BLACK HARD COATED	90 2308	HEX SCREW SH M3x8 (10)
36 4130	SLIPPER CLUTCH PAD (2)	90 2318	HEX SCREW SH M3x18 (10)
36 4150	ALU SLIPPER CLUTCH NÚT RETAINER	90 3310	HEX SCREW SFH M3x10 (10)
36 4170	SLIPPER CLUTCH OUTDRIVE ADAPTER - HUDY SPRING STEEL™	90 3318	HEX SCREW SFH M3x18 (10)
36 4180	SLIPPER CLUTCH SPRING C=30 - BLACK	94 1015	HIGH-SPEED BALL-BEARING 10x15x4 RUBBER SEALED (2)
36 4190	ALU SLIPPER CLUTCH NUT	98 0212	PIN 2x11.6 (10)
36 5781	COMPOSITE SLIPPER CLUTCH SPUR GEAR 81T / 48 - GRAPHITE	98 1208	PIN 2x8 (10)





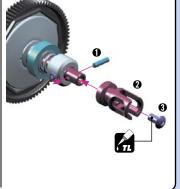






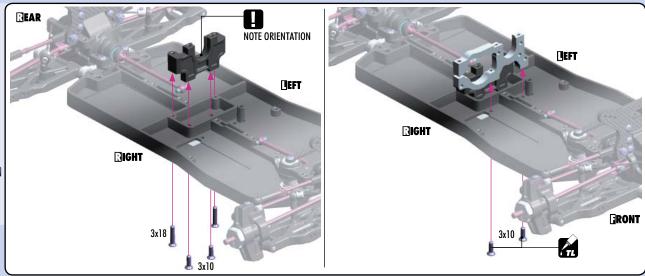
bushing. More the spring is tighten (bushing moved more inside), the slipper clutch is more tighten.

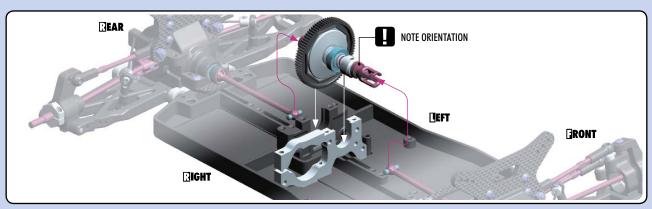
#### INITIAL INSTALLATION POSITION SHOWN Detailed information on slipper adjustment can be found at the bottom of page 27.



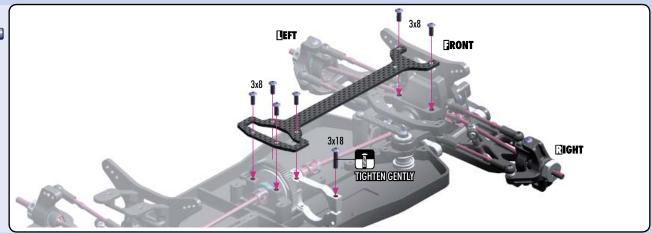
# SLIPPER CLUTCH ASSEMBLY











#### THE SLIPER CLUTCH ADJUSTMENT

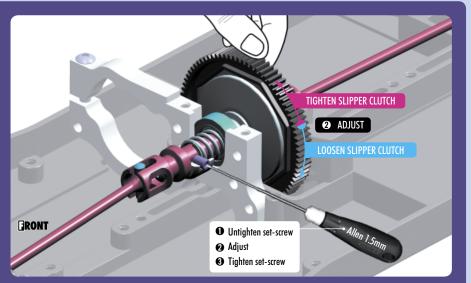
The slipper clutch can be adjusted by loosening the set screw and then, while keeping the tool inside of the set screw, rotating the spur gear by hand as indicated in the drawing. If the slipper clutch needs to be tighter, rotate the spur gear in the counterclockwise direction. If the slipper clutch needs to be looser, rotate the spur gear in clockwise direction.



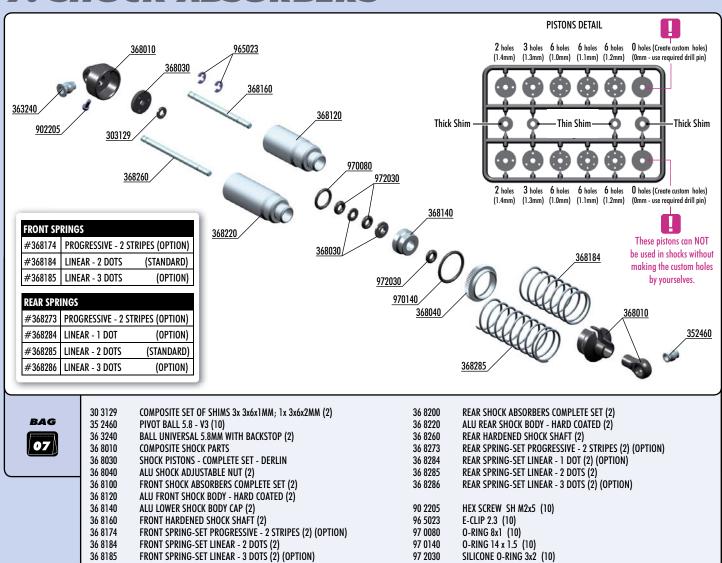
#### IMPORTANT

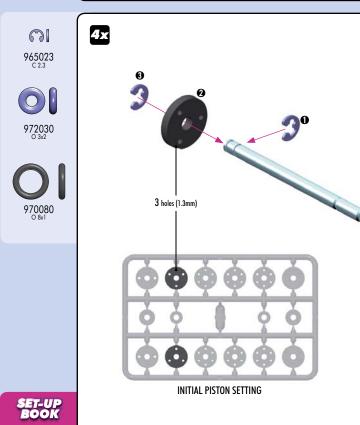
When tightening the setscrew again, ensure that the set screw sits only on the flat spot of the shaft.

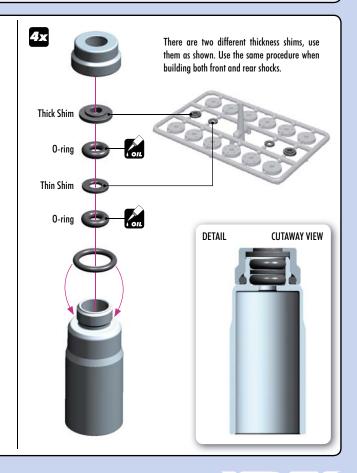




# 7. SHOCK ABSORBERS

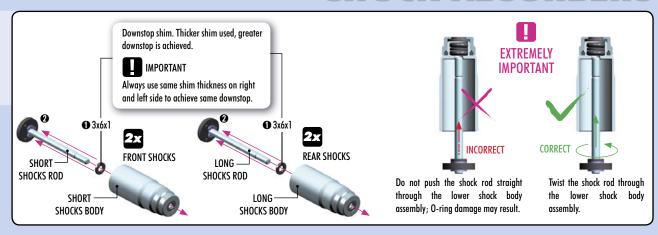










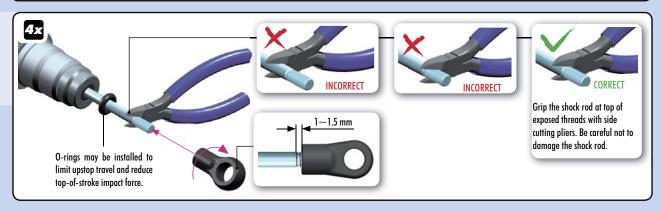




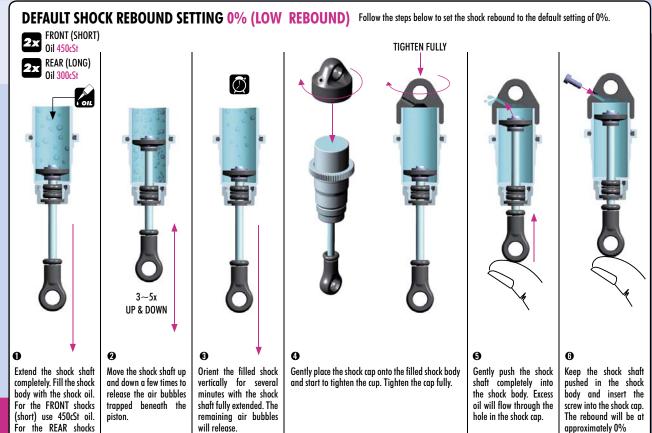








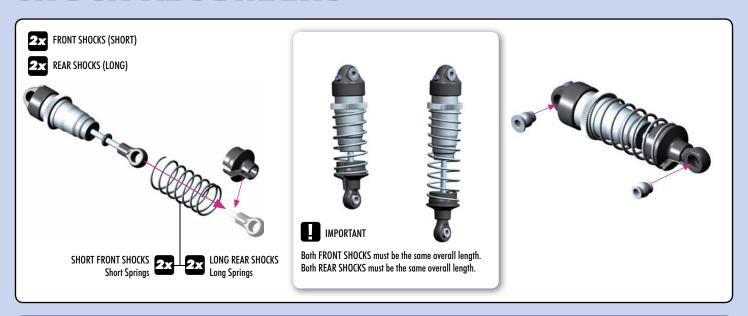




SET-UP BOOK SHOCK OIL

(long) use 300cSt oil.

### SHOCK ABSORBERS



### TIP ALTERNATE SHOCK REBOUND SETTING (50% AND 100%)

The default shock rebound setting is 0% (as described on page 34).
Alternatively, you may set the shock rebound setting to 50% or 100% as described below. Remove the shock springs before performing shock rebound adjustment.

#### SETTING THE SHOCK REBOUND TO 50% (MEDIUM REBOUND)



Extend the shock shaft completely and remove the shock cap and remove screw from shock cap.



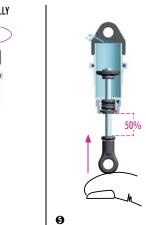
Fill the shock body with shock oil up to the top. Make sure to use same viscosity shock oil as is in the shock.



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



Gently place the shock cap assembly onto the filled shock body.



Push the shock shaft 50% into the shock body. Excess oil will bleed thgrough the hole in the shock cap.



Keep the shock shaft pushed 50% into the shock body and insert the screw into the shock cap. The rebound will be at approximately 50%.

#### SETTING THE SHOCK REBOUND TO 100% (HIGH REBOUND)



Extend the shock shaft completely and remove the shock cap.



Fill the shock body with shock oil up to the top. Make sure to use same viscosity shock oil as is in the shock.

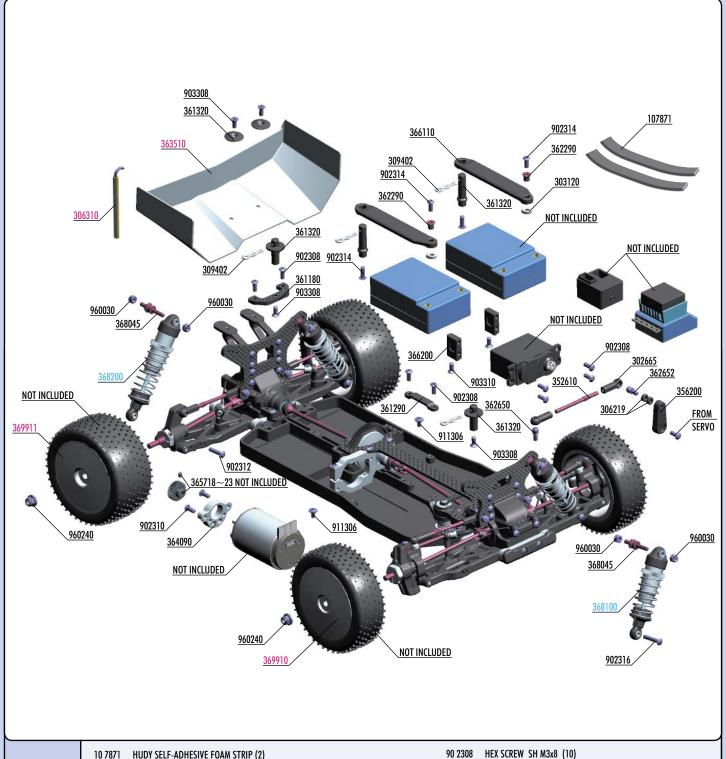


Orient the filled shock vertically for several minutes with the shock shaft fully extended. The remaining air bubbles will release.



Gently place the shock cap assembly onto the filled shock body. Keep the shock shaft extended 100% from the shock body and tighten the shock cap completely. The rebound will be at approximately 100%.

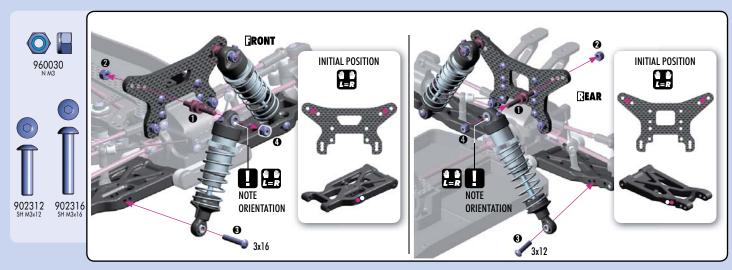
# 8. FINAL ASSEMBLY

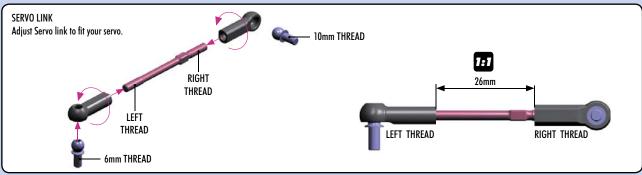


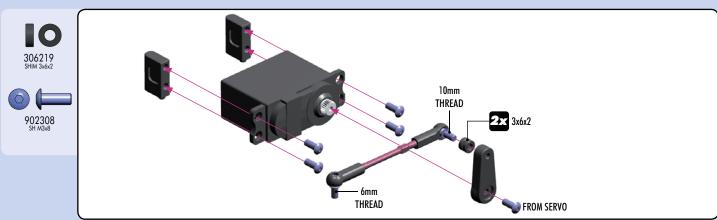


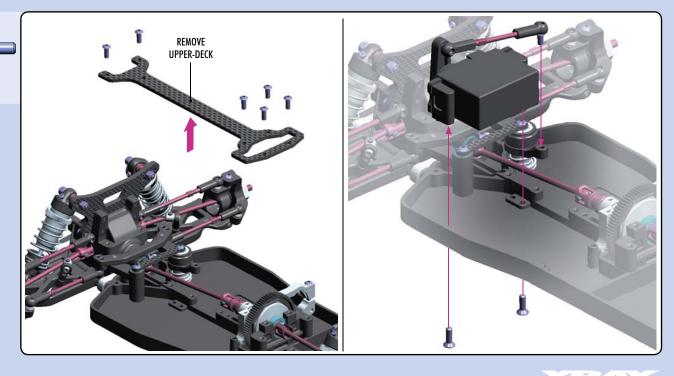
l	10 7871	HUDY SELF-ADHESIVE FOAM STRIP (2)	90 2308	HEX SCREW SH M3x8 (10)
ı	30 2665	COMPOSITE BALL JOINT 4.9MM - CLOSED WITH HOLE (4)	90 2310	HEX SCREW SH M3x10 (10)
ı	30 3120	SET OF ALU SHIM (0.5MM, 1.5MM, 2.5MM)	90 2312	HEX SCREW SH M3x12 (10)
ı	30 6219	COMPOSITE SET OF SERVO SHIMS (4)	90 2314	HEX SCREW SH M3x14 (10)
ı	30 9402	BODY CLIP FOR 6MM BODY POST (4)	90 2316	HEX SCREW SH M3x16 (10)
1	35 2610	ADJ. TURNBUCKLE M3 L/R 45 MM - SPRING STEEL™ (2)	90 3308	HEX SCREW SFH M3x8 (10)
ĺ	35 6200	BRAKE/THROTTLE ARMS & STEERING SERVO ARMS - SET	90 3310	HEX SCREW SFH M3x10 (10)
I	36 1180	GRAPHITE REAR UPPER BRACE 2.0MM	91 1306	HEX SCREW FLANGED SH M3x6 (10)
ı	36 1290	COMPOSITE CHASSIS WIRE COVER	96 0030	NUT M3 (10)
ı	36 1320	BODY MOUNT, BATTERY MOUNT & WING SHIM (2)	96 0240	NUT M4 WITH SERRATED FLANGE (10)
ı	36 2290	STEEL STEERING BUSHING - SHORT (2)		
ı	36 2650	BALL END 4.9MM WITH THREAD 6MM (2)	36 8100	FRONT SHOCK ABSORBERS COMPLETE SET (2)
ı	36 2652	BALL END 4.9MM WITH THREAD 10MM (2)	36 8200	REAR SHOCK ABSORBERS COMPLETE SET (2)
ı	36 4090	ALU ECCENTRIC MOTOR BULKHEAD INSERT		
ĺ	36 5718~	-23 ALU PINION GEAR HARD COATED 18~23T/48 (OPTION)	30 6310	ANTENNA (2)
I	36 6110	COMPOSITE BATTERY STRAP L+R	36 3510	LEXAN REAR WING (2)
I	36 6200	COMPOSITE SERVO MOUNT (2)	36 9700	XRAY XB4 BODY
ĺ	36 8045	STEEL SCREW SHOCK PIVOT BALL WITH HEX (2)	36 9910	FRONT WHEELS AERODISK - WHITE (2)
l			36 9911	REAR WHEELS AERODISK - WHITE (2)
•				

# FINAL ASSEMBLY





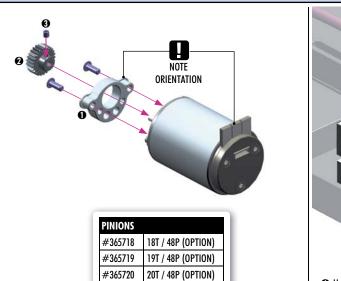






903310 SFH M3x10

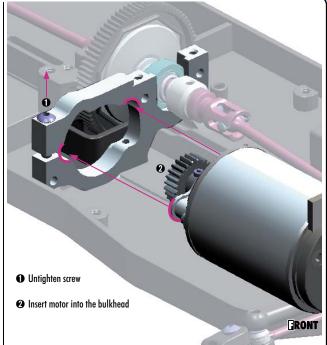




21T / 48P (OPTION)

22T / 48P (OPTION)

23T / 48P (OPTION)



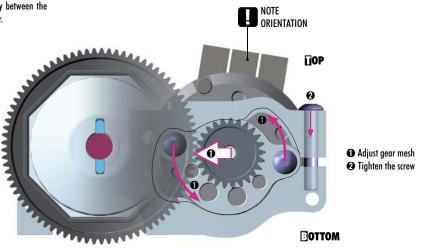
Adjust the motor so the pinion meshes with the spur gear properly. Make sure the gear mesh is not too tight.

#365721

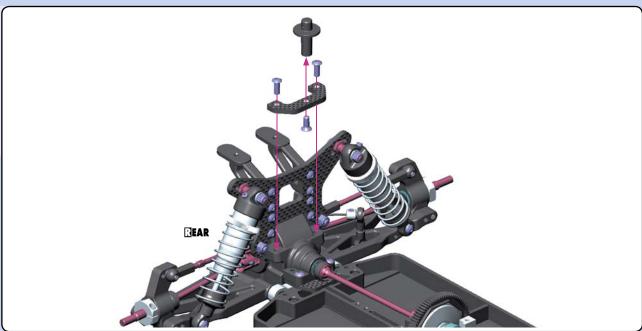
#365722

#365723

There should be a small amount of play between the teeth of the pinion gear and the spur gear.

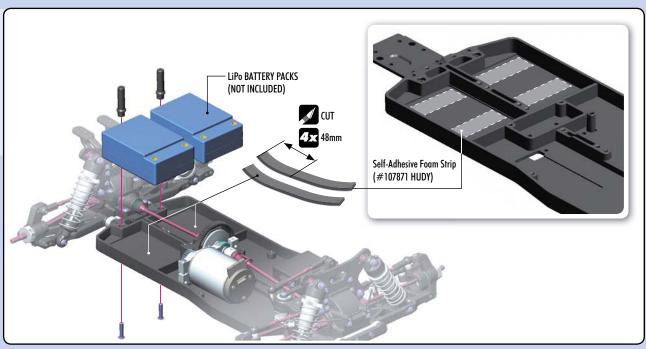




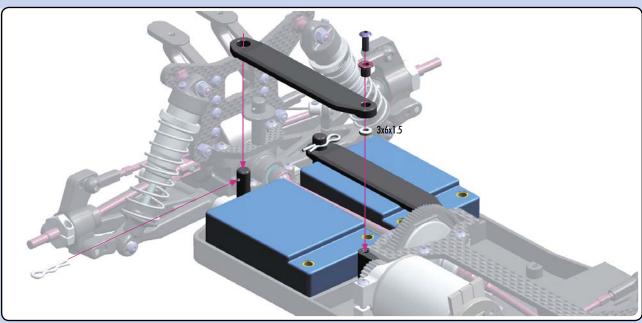


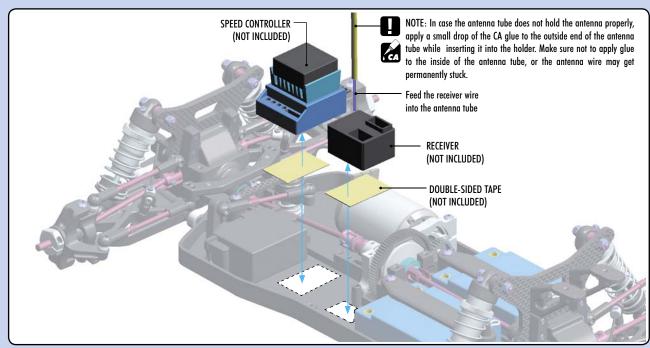
# FINAL ASSEMBLY



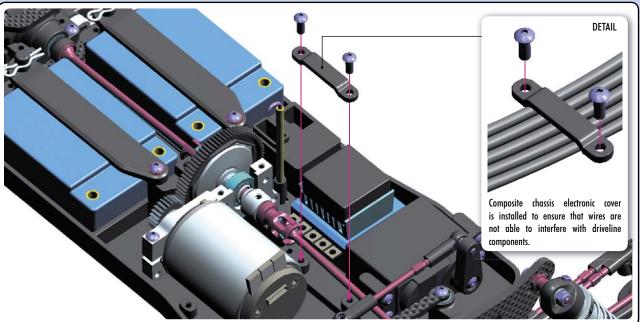




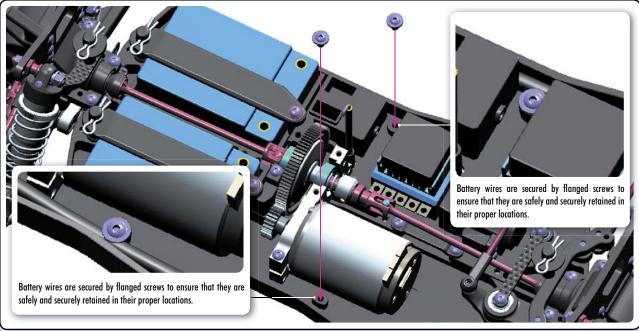




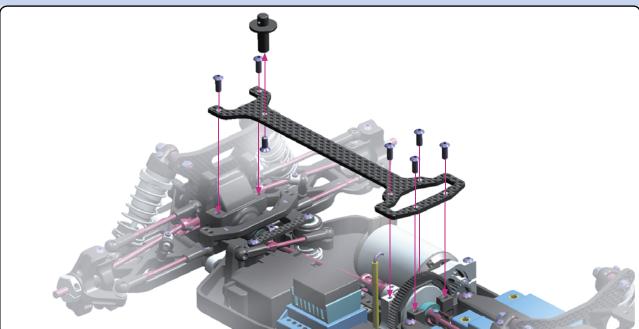






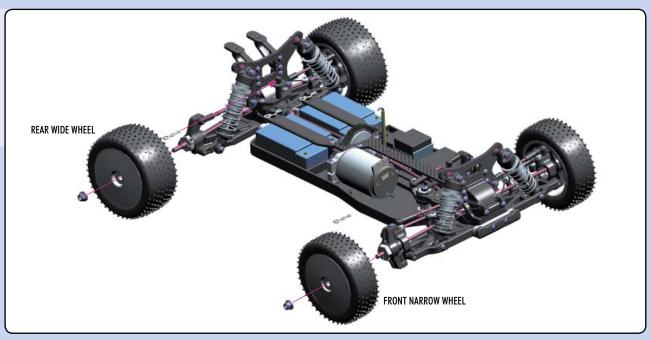




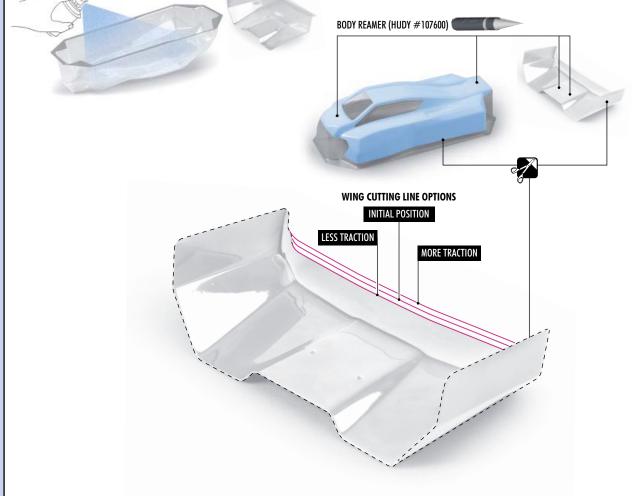


# FINAL ASSEMBLY

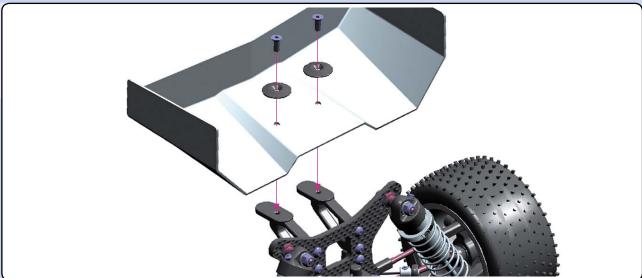




- $\ensuremath{ \bullet \hspace{-8pt} }$  Before cutting and making holes on the BODY, put the unpainted body on the chassis to confirm the mounting position and location for holes and cutouts. Before cutting and making holes on the WING, put the unpainted wing on the wing holders to confirm the mounting position and location for holes and cutouts. 2 Before painting, wash the inside of the body with mild detergent, and then rinseand dry thoroughly. Mask all windows.
  - Apply paint masks as appropriate.
  - Paint the body using paints formulated for polycarbonate bodies.
  - **13** 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.





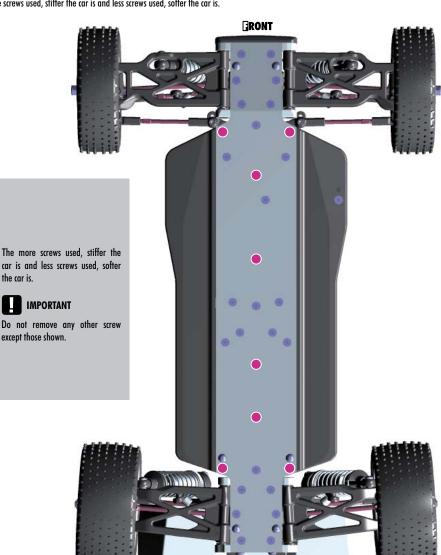


# MULTIFLEXTM

XB4 offers revolutionary flex setting possibilities. Depending on the traction, surface, track layout, you can change the flex setting as you need by adding or removing the screws which are shown bellow.

There are three standard flex settings: soft, medium, stiff. The more screws used, stiffer the car is and less screws used, softer the car is.

the car is.



#### **SOFT**

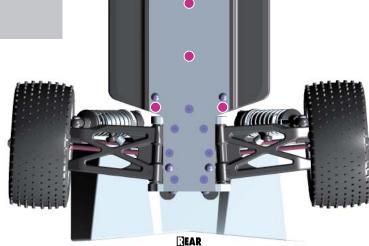
Use soft setting for low-traction, dusty tracks. The car will create a lot of traction with this setting but will have less steering and response compared to stiffer setting.

#### **MEDIUM**

Use medium setting for medium-traction tracks. This setting offers good balance between steering responsiveness and traction.

#### **STIFF**

Use stiff setting for high-traction tracks where a lot of steering and car response is required.





#### **SHOCK MAINTENANCE**

The most important maintenance task for keeping consistent shock performance is refilling and bleeding them correctly. If built correctly, it will not be necessary to re-build them often. Replacing warped/hard o-rings, scarred piston rods, or shaved/split/loose composite upper and lower ball joints are also important.

- For club racing, it is recommended to check the shocks for air inside before each race and only re-fill
  and bleed them if necessary. Before each race day, make sure you take the spring off of each shock,
  hold it up to your ear, and quickly compress the shock rod fully into the body while listening for any
  air making a "whistling" or "squishy" sound as it passes through the piston holes. If you hear any
  air, refill and bleed your shocks. For high-competition racing, it is recommended that the shocks be
  re-filled and bled before a large event.
- If building or pairing new shocks, always make sure they are the same length using a shock length measuring tool and adjust the lower ball joints as needed.
- During regular shock operation, oil naturally gets on the shock shaft and drop-by-drop slightly
  gets out of the shock body. Shocks should be inspected regularly after each race, and oil replaced
  as required.

#### **BEARING MAINTENANCE**

Ball-bearings in an off-road car must be properly maintained for smooth operation and long lifespan.

The XB4 ball-bearings are degreased and are lubricated with HUDY Bearing Oil. The following procedures are recommended to clean all of the bearings in your off-road car. For high-competition racing, we recommended doing this every 3-4 weeks, or before a major race.

- Remove the seals on both sides of the bearing (if present). If the seals bend a little and you can see a kink, carefully flatten the kink out by hand.
- ② Spray the seals with motor cleaner and blow dry with compressed air.
- 3 Spray the bearing on both sides with motor cleaner.
- 4 Spin the bearing while it is still wet to dislodge any particles with the cleaner.
- Spray the bearing on both sides again.

If you spin test the bearing after you have re-oiled and sealed it, it will not spin freely for an extended period of time. The lightest of oils may allow it to spin for 1-2 seconds. This is normal and once you have mounted the bearings in the car again, the drive train will spin freely.

Make sure you use a motor cleaner that does not leave a residue after it dries as this may cause drag and wear in the bearings.

- 3 Blow both sides of the bearing dry with compressed air to make sure particles come out.
- Hold the inner part of the bearing with my left thumb/forefinger and spin it to make sure it spins free without any abnormal vibrations or sounds.
- Place one drop of bearing oil into each side of the bearing.
- Replace both seals at the same time by lining them up on each side of the bearing and lightly pressing them in all the way around the bearings circumference with your thumb and forefinger. Do not press too hard or use any type of tool, such as a wrench tip, to push the blue seals in as they will push in too far, bend and cause drag.

#### **RECOMMENDED PRODUCTS**

Use #106230 HUDY Bearing Oil to lubricate the bearings.

HUDY #106230

#### **SUSPENSION & DRIVETRAIN MAINTENANCE**

- Check suspension for free movement during building and operation, and especially after running
  and if you have crashed the car. If the suspension does not move freely, use the appropriate HUDY
  Arm Reamer to clean and resize the holes of the suspension arms.
- Regularly check the drive shaft pins (both side and center) and if they show any wear must be
  immediately replaced by new pins. If the car is run with worn pins, excessive wear on the diff
  outdrives will result. The 106000 HUDY Drive Pin Replacement Tool (for 3mm Pins) is a compact,
  rugged multi-use tool set for replacing 3mm drive pins in drive shafts. Use the HUDY replacement
  drive shaft pins 3x12 (#106051).
- Regularly inspect and replace the connecting pins which connect the center drive shafts with the
  pinion gear, and also the pins that connect the wheel drive shafts with wheel axles. Use HUDY
  Graphite Grease to lubricate the drive shaft connecting joints and the diff gears.
- Pivot balls and ball-joints will naturally wear for some time and will generate play. If there
  is too much play the pivot balls and ball joints need to be replaced.
- If the car is run in wet conditions, apply WD-40® on all drivetrain parts before the run. After the run, clean and dry the parts again.



### **HUDY SPRING STEEL™**

The HUDY Spring Steel™ used in the car is the strongest and most durable steel material on the RC market. While items made from HUDY Spring Steel™ are still subject to wear, the lifespan is considerably longer than any other material. As parts made from HUDY Spring Steel™ wear, the

brown color will after some time "go down" but it will not affect the strength of the material. The brown color is only a surface treatment and if the brown color will wear the durability of the part will be still strong.

SET-UP SHEET

XRAY XB4

RACE	<b>■RONT</b> APPLIED <b>③</b>	<b>★</b> APPLIED <b>BEAR</b>
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TRACK SURFACE SMOOTH MEDIUM BUMPY	+0.75mm CASTER 6° CONTRACTOR OF THE PROPERTY O	WING CUTTING LINE
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