

BEFORE YOU START

The T4 is a high-competition, high-quality, 1/10-scale touring 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 T4, 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 T4 is not what you wanted or expected, do not continue any further. Your hobby dealer cannot accept your T4 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

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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 caught.
- Be sure that your operating frequency is clear before turning on or running your model, and never share the same frequency with somebody else at the same time. Ensure that others are aware of the operating frequency you are using and when you are using it.
- Use a transmitter designed for ground use with RC cars. Make sure that no one else is using the same frequency as yours in your operating area. Using the same frequency at the same time, whether it is driving, flying or sailing, can cause loss of control of the RC model, resulting in a serious accident.
- Always turn on your transmitter before you turn on the receiver in the car. Always turn off the receiver before turning your transmitter off.

- Keep the wheels of the model off the ground when checking the operation of the radio equipment.
- Disconnect the battery pack before storing your model.
- When learning to operate your model, go to an area that has no obstacles that can damage your model if your model suffers a collision.
- Remove any sand, mud, dirt, grass or water before putting your model away.
- If the model behaves strangely, immediately stop the model, check and clear the problem.
- To prevent any serious personal injury and/or damage to property, be responsible when operating all remote controlled models.
- The model car is not intended for use on public places and roads or areas where its operation can conflict with or disrupt pedestrian or vehicular traffic.
- Because the model car is controlled by radio, it is subject to radio interference from many sources that are beyond your control. Since radio interference can cause momentary loss of control, always allow a safety margin in all directions around the model in order to prevent collisions.
- Do not use your model:
 - Near real cars, animals, or people that are unaware that an RC car is being driven.
 - In places where children and people gather
 - In residential districts and parks
 - In limited indoor spaces
 - In wet conditions
 - In the street
 - In areas where loud noises can disturb others, such as hospitals and residential areas.
 - At night or anytime your line of sight to the model may be obstructed or impaired in any way.

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 charaer.
- 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

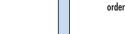
XRAY MODEL RACING CARS uses only the highest quality materials, the best compounds for molded parts and the most sophisticated manufacturing processes of TQM (Total Quality Management). We guarantee that all parts of a newlypurchased kit are manufactured with the highest regard to quality. However, due 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





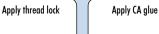






2x







Apply oil

05



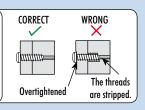












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TOOLS REQUIRED













EQUIPMENT INCLUDED





NOT INCLUDED



To ensure that you always have access to the most up-to-date version of the XRAY Set-up Book, XRAY will now be offering only the digital online version at our Web site at www.teamxray.com. By offering this online version instead of including a hardcopy printed version in kits, you will always be assured of having the most current updated version.

SAMPLE OF OPTIONAL PARTS

#30XXXX OPTION 1
#30XXXX OPTION 2
#30XXXX 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

























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.

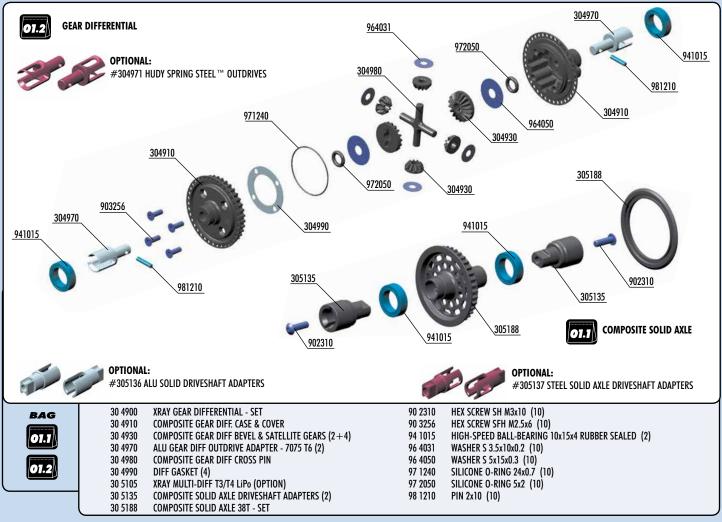
STYLE B - indicates parts that are included in the box.

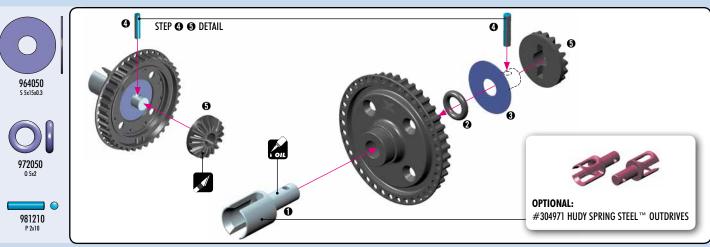
STYLE C - indicates parts that are already assembled from previous steps.

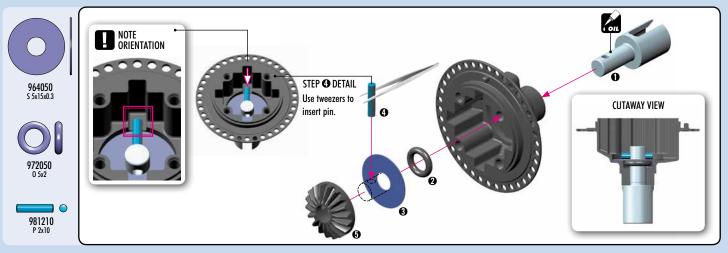
CHASSIS PREPARATION

To protect and seal edges of graphite parts, sand edges smooth and then apply ${\sf CA}$ glue. Do this for: chassis edges, countersunk holes, and shock towers. ПОР RONT **BOTTOM BOTTOM** RONT ■EAR Apply only a bit of CA glue in the countersunk holes. Apply only a bit of CA glue in the countersunk holes.

1. GEAR DIFFERENTIAL & FRONT SOLID AXLE





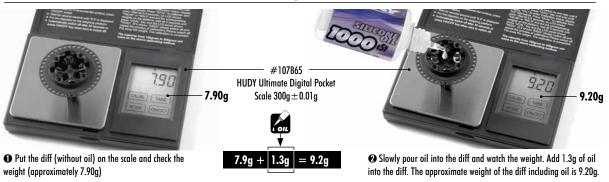


1. GEAR DIFFERENTIAL & FRONT SOLID AXLE





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



TIP	TIPS FOR DIFFERENTIALS			
LOW-TRACTION	MEDIUM-TRACTION	HIGH-TRACTION	SUPER HIGH-TRACTION	
1000cSt (HUDY #106410) 2000cSt (HUDY #106420)	2000cSt (HUDY #106420) 3000cSt (HUDY #106430) 5000cSt (HUDY #106450)	5000cSt (HUDY #106450) 6000cSt (HUDY #106460) 7000cSt (HUDY #106470) 8000cSt (HUDY #106480) 9000cSt (HUDY #106490) 10000cSt (HUDY #106510)	10000cSt (HUDY #106510) 15000cSt (HUDY #106515) 20000cSt (HUDY #106520)	

LOW-TRACTION

NOTE: Softer oil increases rear traction, harder oil increases on-power steering and stability. It is important not to use soft oils in high-traction conditions as this would not increase traction, but would make the car loose as the car would become too twitchy.

However, if the oil is too soft, it could generate the same effect like the car has no traction. Therefore it is very important to choose the correct oil very carefully. We suggest to always try soft oil and than harder oil to understand better the car behavior at the track and then choose the oil accordingly.

TIPS FOR FRONT DIFFERENTIAL

To increase on-power steering and cornering speed, the gear diff can also be used in the front. Note: If you use the gear diff in the front, we recommend using optional #304971 HUDY Spring Steel™ outdrives because the stress on the outdrives in the front is much higher than in the rear.

USE THESE OILS FOR FRONT DIFFERENTIAL

500,000 cSt (HUDY #106650) 1,000,000 cSt (HUDY #106692)

To make the front differential tighter, you can use cleaning gum instead of oil.

IMPORTANT! Using cleaning gum instead of oil in the gear differential can lead to gear breakage because the gears are working under dry conditions.



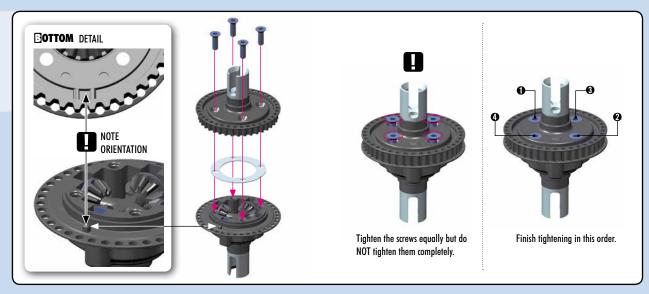


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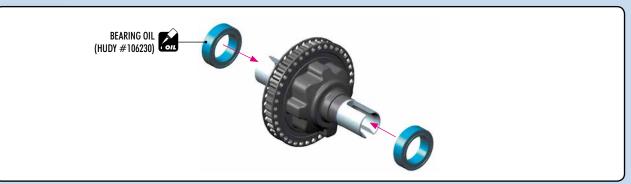
After disassembling the gear diff the large O-ring may have an increased size and may be more difficult to re-install. We recommend either inserting the old O-ring carefully in the diff cover, or replacing the old O-ring with a new O-ring if the old one cannot be made to fit properly.

1. GEAR DIFFERENTIAL & FRONT SOLID AXLE









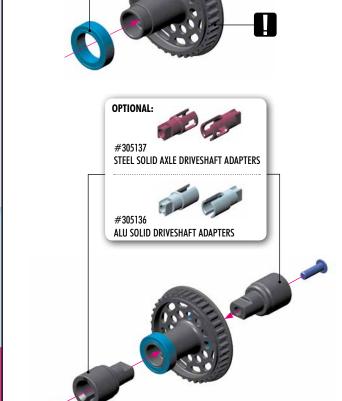
BEARING OIL (HUDY #106230)

COMPOSITE FRONT SOLID AXLE

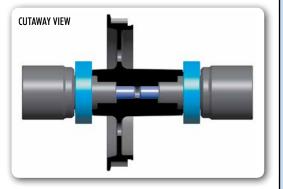
BEARING OIL (HUDY #106230)







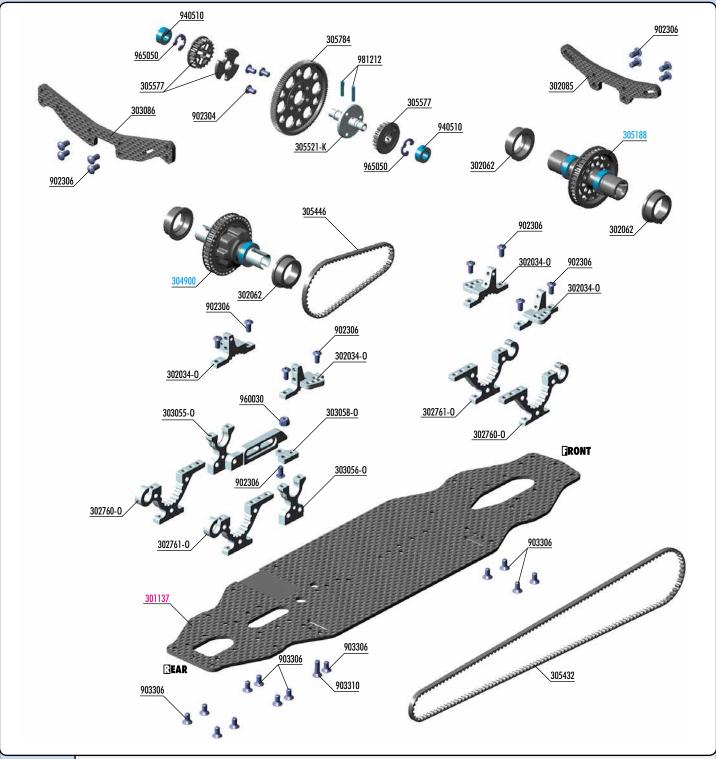








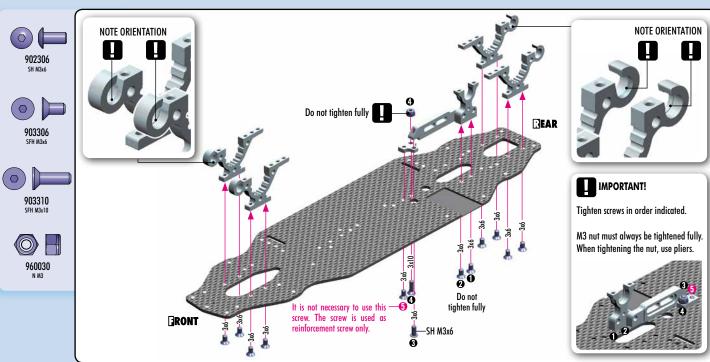
2. CENTRAL TRANSMISSION

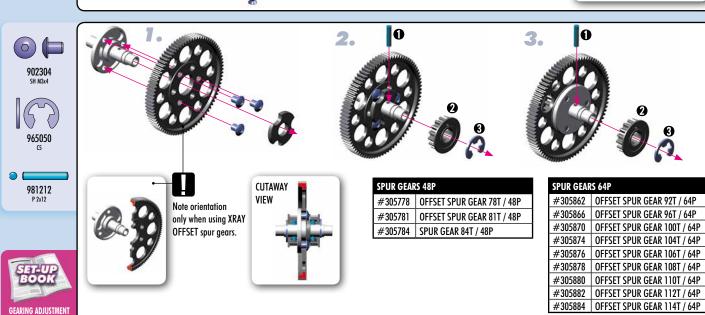


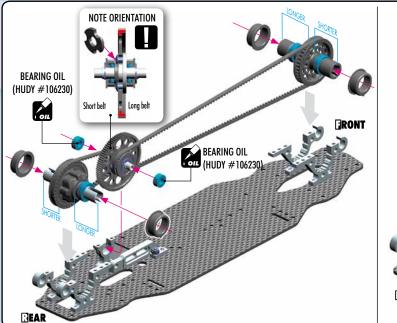


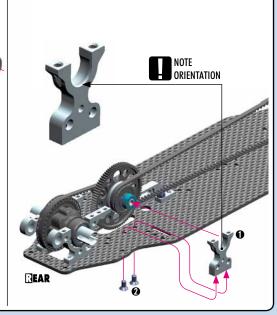
30 2062 30 2085 30 2760-0 30 2761-0 30 3055-0 30 3058-0 30 3058-0 30 5432 30 5446 30 5521-K 30 5778 30 5781 30 5784	T4 ALU UPPER CLAMP WITH 5 ADJ. ROLL-CENTERS (L+R) - ORANGE T4 COMPOSITE ADJUSTMENT BALL-BEARING HUB (4) T4 SHOCK TOWER FRONT 3.0MM GRAPHITE T4'15 ALU LOWER ADJUSTMENT BULKHEAD - FRONT R / REAR L - ORANGE T4'15 ALU LOWER ADJUSTMENT BULKHEAD - FRONT L / REAR R - ORANGE T4'15 ALU MOTOR MOUNT - ORANGE T4 ALU LAYSHAFT BULKHEAD CLOSED L/R - ORANGE T4'15 ALU MOTOR MOUNT PLATE - ORANGE T4'15 ALU MOTOR MOUNT PLATE - ORANGE T4 SHOCK TOWER REAR 3.0MM GRAPHITE HIGH-PERFORMANCE KEVLAR DRIVE BELT FRONT 3 x 513 MM HIGH-PERFORMANCE KEVLAR DRIVE BELT REAR 3 x 189 MM ALU SOLID LAYSHAFT - BLACK COMPOSITE FIXED PULLEY 20T (2) OFFSET SPUR GEAR 81T / 48 (OPTION) SPUR GEAR 84T / 48 OFFSET SPUR GEAR 81T / 48	30 5874 30 5876 30 5878 30 5880 30 5882 30 5884 90 2304 90 2306 90 3310 94 0510 96 0030 96 5050 98 1212	OFFSET SPUR GEAR 104T / 64 (OPTION) OFFSET SPUR GEAR 106T / 64 (OPTION) OFFSET SPUR GEAR 108T / 64 (OPTION) OFFSET SPUR GEAR 110T / 64 (OPTION) OFFSET SPUR GEAR 112T / 64 (OPTION) OFFSET SPUR GEAR 114T / 64 (OPTION) HEX SCREW SH M3x4 - STAINLESS (10) HEX SCREW SH M3x6 (10) HEX SCREW SFH M3x6 (10) HEX SCREW SFH M3x6 (10) HEX SCREW SFH M3x10 (10) HIGH-SPEED BALL-BEARING 5x10x4 RUBBER SEALED (2) NUT M3 (10) E-CLIP 5 (10) PIN 2x12 (10) XRAY GEAR DIFFERENTIAL - SET	
30 5862 30 5866	OFFSET SPUR GEAR 92T / 64 (OPTION) OFFSET SPUR GEAR 96T / 64 (OPTION)	30 4900 30 5188 30 1137	XRAY GEAR DIFFERENTIAL - SET COMPOSITE SOLID AXLE 38T - SET T4'15 CHASSIS 2.2MM GRAPHITE	
30 5870	OFFSET SPUR GEAR 100T / 64 (OPTION)			

2. CENTRAL TRANSMISSION





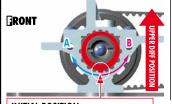


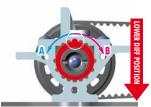


FRONT BELT TENSION ADJUSTMENT

Front diff upper position provides more steering but provides less front traction. Recommended for medium . - high grip tracks and technical tracks.

Front diff lower position provides more front traction but makes the car push more on power. Recommended for low traction tracks.





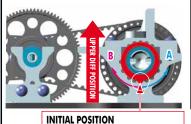
INITIAL POSITION PLACE TAB IN THIS BOTTOM NOTCH

TO LOOSEN FRONT BELT: Rotate both front nylon hubs in arrow direction A

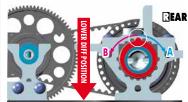
TO TIGHTEN FRONT BELT: Rotate both front nylon hubs in arrow direction B

REAR BELT TENSION ADJUSTMENT

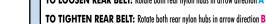
Rear diff upper position provides more on-power steering but makes the rear slightly more loose. Recommended for medium - high traction tracks.



Rear diff lower position provides more rear traction, mainly on power traction and makes the car more stable in the chicanes, but makes the car push more on power. Recommended for low - medium traction tracks.

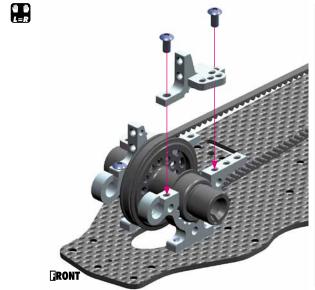


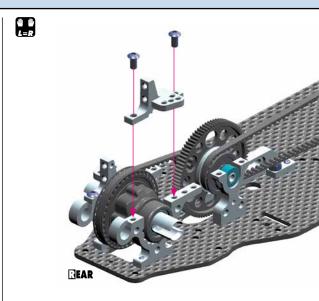
PLACE TAB IN THIS BOTTOM NOTCH TO LOOSEN REAR BELT: Rotate both rear nylon hubs in arrow direction A



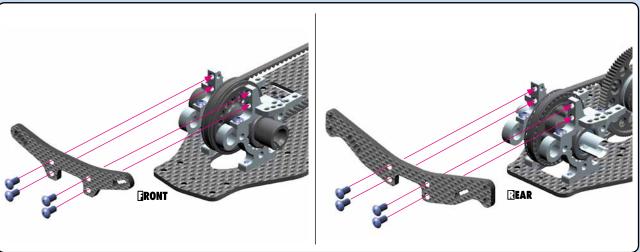
DETAIL OPTIONAL: #303071 Belt Tensioner may be used when the front belt becomes worn and loose. Belt tensioner is NOT included in the kit and must be purchased separately.

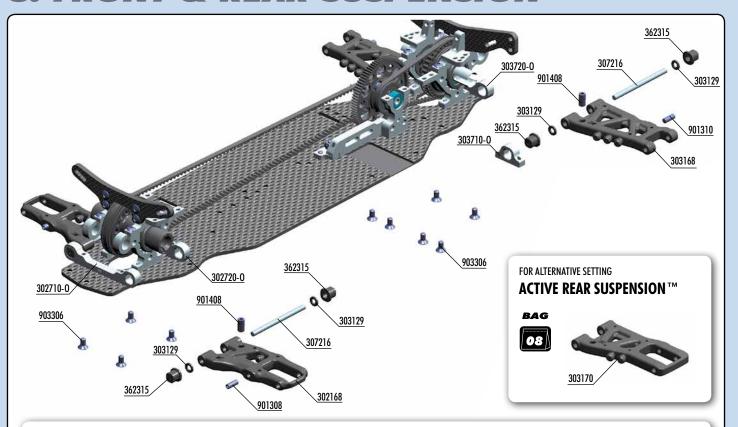








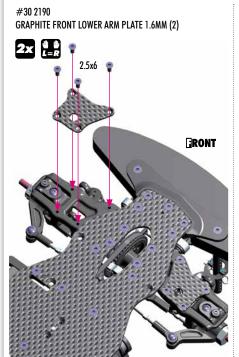


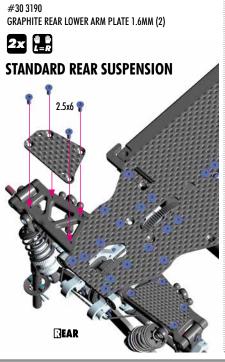


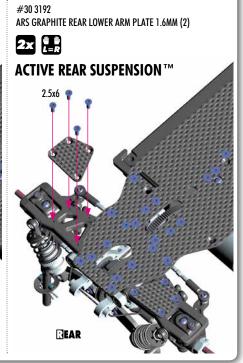
OPTIONAL

For better stability and to make the car easier to drive, optional #302190 and #303190 graphite stiffeners may be used. Using only 4 screws, the graphite stiffener can be installed or removed which would completely change the characteristics of the car. Stiffeners may be used independently at front and/or rear.

IMPORTANT! Install/remove stiffeners equally on left & right sides.

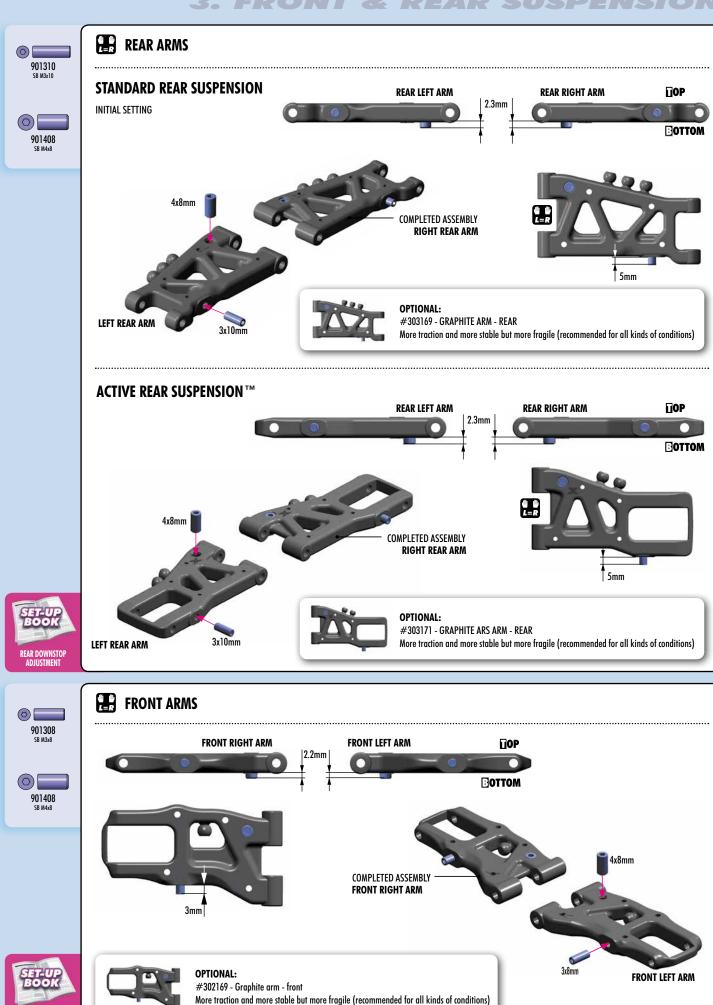




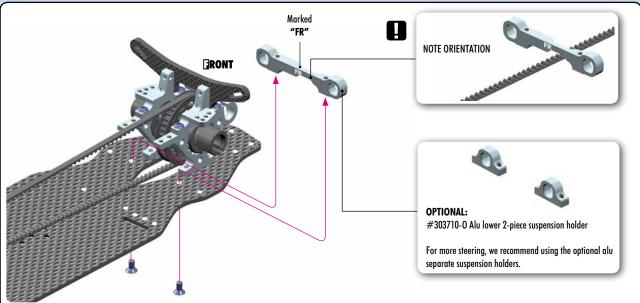


E	BAG	
	03	

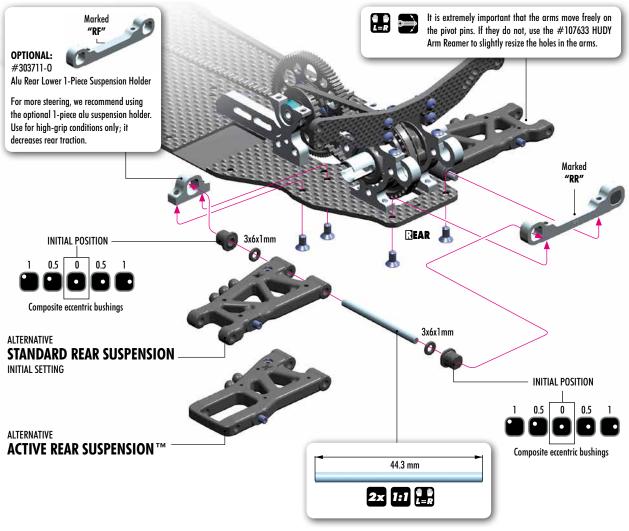
30 2168	FRONT SUSPENSION ARM - HARD - 1-HOLE	30 3192	ARS GRAPHITE REAR LOWER ARM PLATE 1.6MM (2) (OPTION)
30 2169	FRONT SUSPENSION ARM - GRAPHITE - 1-HOLE (OPTION)	30 3710-0	ALU LOWER 2-PIECE SUSPENSION HOLDER
30 2190	GRAPHITE FRONT LOWER ARM PLATE 1.6MM (2) (OPTION)	30 3711-0	ALU REAR LOWER 1-PIECE SUSPENSION HOLDER - FRONT - RF (OPTION)
30 2710-0	ALU FRONT LOWER 1-PIECE SUSPENSION HOLDER - FRONT - FF	30 3720-0	ALU REAR LOWER 1-PIECE SUSPENSION HOLDER - REAR - RR
30 2720-0	ALU FRONT LOWER 1-PIECE SUSPENSION HOLDER - REAR - FR	30 7216	SUSPENSION PIVOT PIN (2)
30 3129	COMPOSITE SET OF WHEELBASE SHIMS (3x1MM; 1x2MM) (2)	36 2315	ECCENTRIC BUSHING SET (2)
30 3168	REAR SUSPENSION ARM - HARD - 1-HOLE		.,
30 3169	REAR SUSPENSION ARM - GRAPHITE - 1-HOLE (OPTION)	90 1308	HEX SCREW SB M3x8 (10)
30 3170	ARS - ACTIVE REAR SUSPENSION ARM - HARD - 1-HOLE	90 1310	HEX SCREW SB M3x10 (10)
30 3171	ARS - ACTIVE REAR SUSPENSION ARM - GRAPHITE - 1-HOLE (OPTION)	90 1408	HEX SCREW SB M4x8 (10)
30 3190	GRAPHITE REAR LOWER ARM PLATE 1.6MM (2) (OPTION)	90 3306	HEX SCREW SFH M3x6 (10)





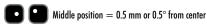








ECCENTRIC BUSHINGS HAVE TWO DIFFERENT OFFSETS FROM THE CENTER.

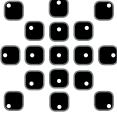


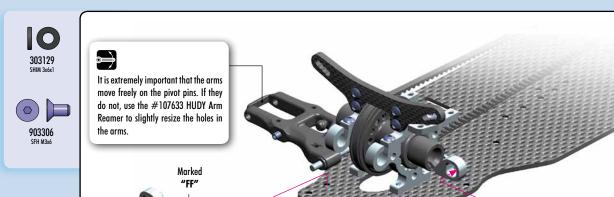


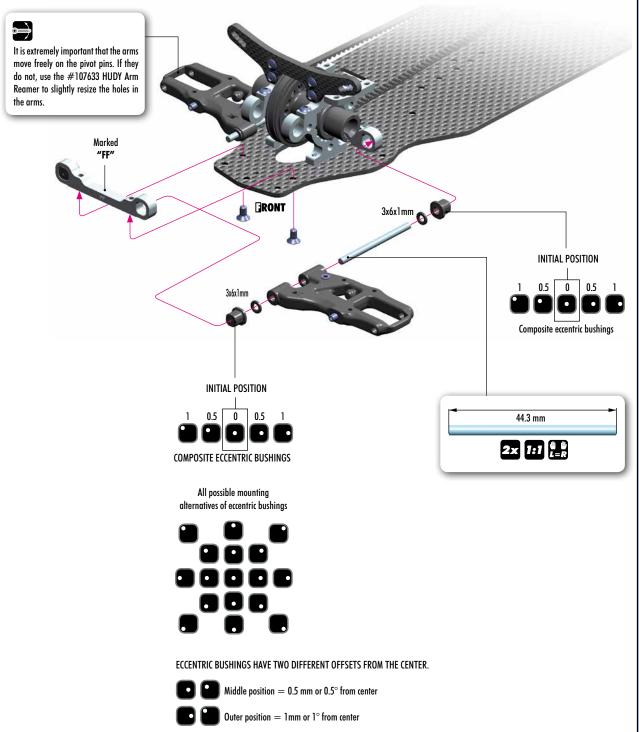
Outer position = 1mm or 1° from center

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

All possible mounting alternatives of eccentric bushings



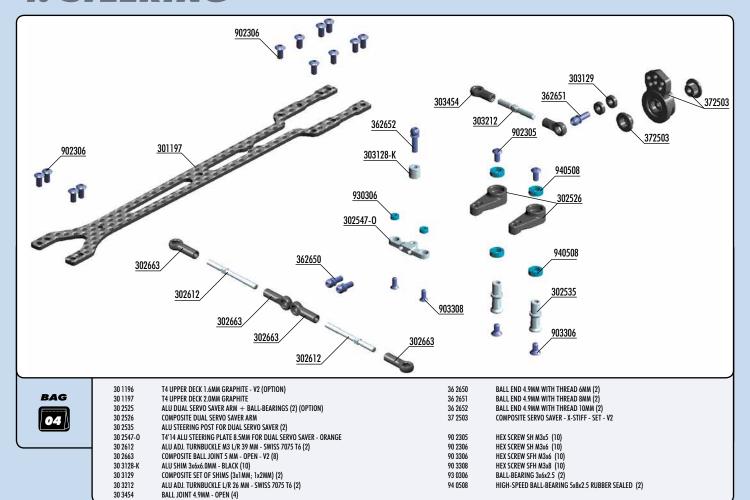


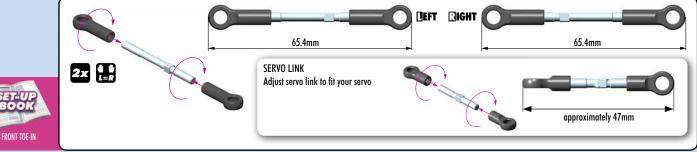


The new Xray front alu lower suspension holders provide even greater range of adjustment for the front suspension. Using different combinations of eccentric bushings, fine adjustment of front anti-squat, front kick-up, front toe-in, front roll center, and front track-width can be obtained. For more information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

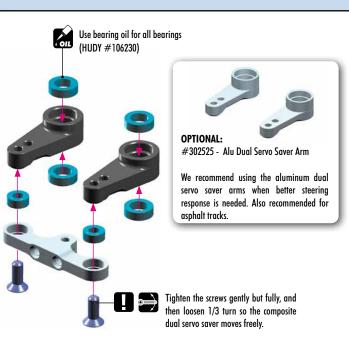


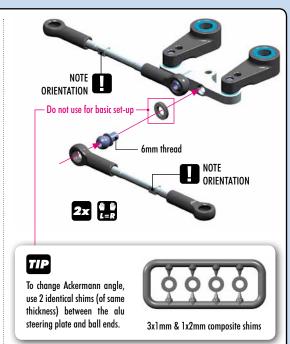
4. STEERING





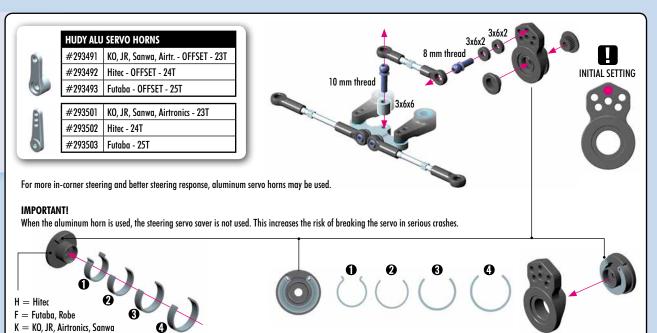








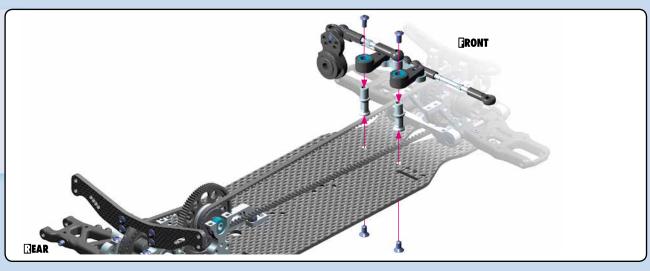




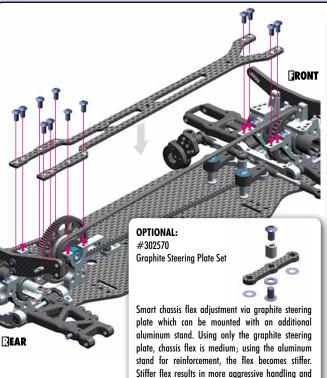










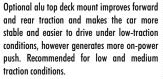


increased steering.

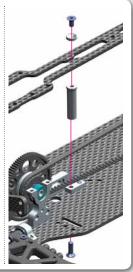
OPTIONAL: #301196 T4 Graphite Upper Deck 1.6mm - V2

We recommend using optional 1.6mm top deck for super-low traction conditions as it provides more overall traction and steering.

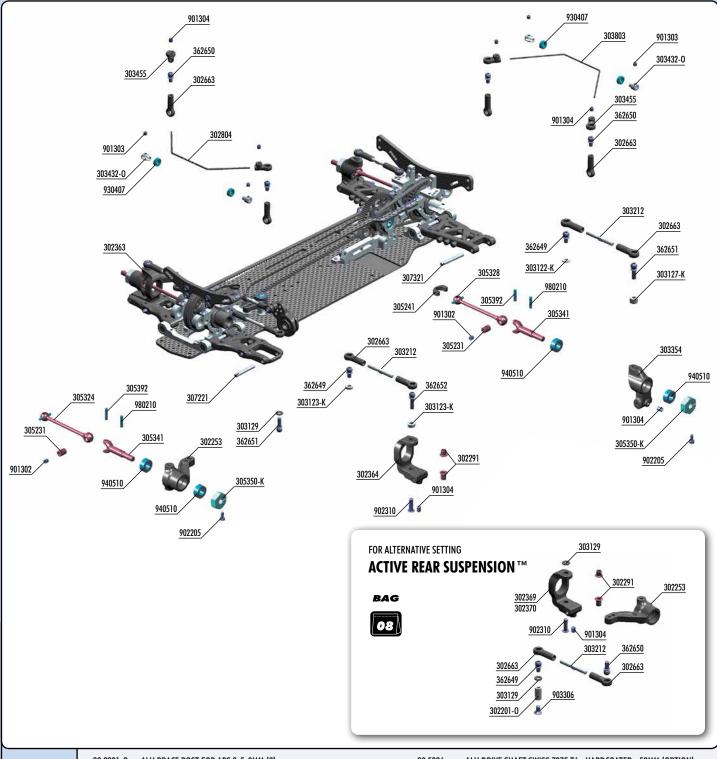




When the aluminum top deck mount is used, the screws from layshaft bulkheads and M3 nut from motor holder must be removed.



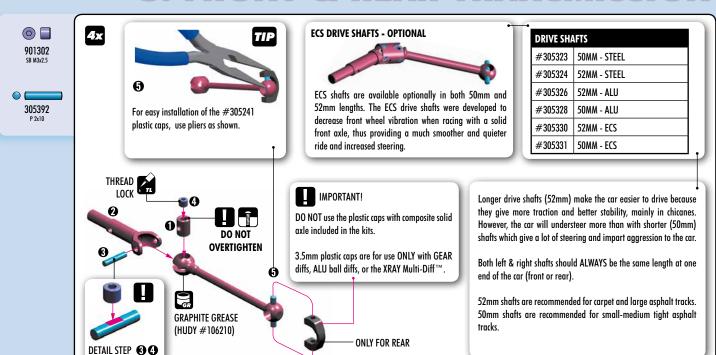




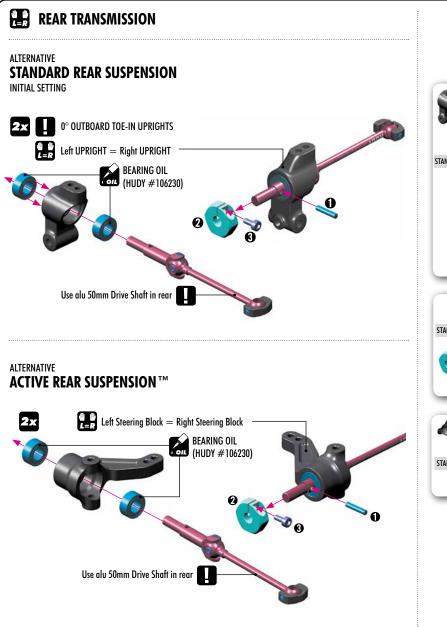


18

30 2201-0 30 2253 30 2291 30 2363 30 2364 30 2369 30 2370 30 2663 30 2804 30 3122-K 30 3123-K 30 3127-K 30 3127-S 30 3210 30 3354 30 3432-0 30 3455 30 3433	ALU BRACE POST FOR ARS 3x5x9MM (2) COMPOSITE STEERING BLOCK - HARD STEEL STEERING BUSHING (2 + 2) COMPOSITE C-HUB RIGHT - 4° DEG MEDIUM - V2 COMPOSITE C-HUB LEFT - 4° DEG MEDIUM - V2 COMPOSITE C-HUB LEFT - 0° DEG HARD COMPOSITE C-HUB LEFT - 0° DEG HARD COMPOSITE BALL JOINT 4.9MM - OPEN - V2 (8) ANTI-ROLL BAR FOR BALL BEARINGS - FRONT 1.4 MM ALU SHIM 3x6x1.0MM - BLACK (10) ALU SHIM 3x6x2.0MM - BLACK (10) ALU SHIM 3x6x4.0MM - BLACK (10) COMPOSITE SET OF SHIMS (3x1MM); 1x2MM) (2) TURNBUCKLE M3 L/R 26 MM - SPRING STEEL™ (2) (OPTION) ALU ADJ. TURNBUCKLE M3 L/R 26 MM - SWISS 7075 T6 (2) COMPOSITE UPRIGHT 0° OUTBOARD TOE-IN - HARD ALU ANTI-ROLL BAR BUSHING - ORANGE (2) COMPOSITE ANTI-ROLL BAR BALL JOINT 4.9 MM (4) ANTI-ROLL BAR FOR BALL BEARINGS - REAR 1.3 MM DRIVE SHAFT COUPLING - HUDY SPRING STEEL™ DRIVE SHAFT TSOMM - HUDY SPRING STEEL™ ORIVE SHAFT 52MM - HUDY SPRING STEEL™	30 /321 36 2649 36 2650 36 2651 36 2652 90 1302 90 1303 90 1304	ALU DRIVE SHAFT SWISS 7075 T6 - HARDCOATED - 52MM (OPTION) ALU DRIVE SHAFT SWISS 7075 T6 - HARDCOATED - 50MM EQUALIZED CORNERING SPEED (ECS) DRIVE SHAFT 52MM (OPTION) EQUALIZED CORNERING SPEED (ECS) DRIVE SHAFT 50MM (OPTION) DRIVE AXLE - LIGHTWEIGHT - HUDY SPRING STEEL™ ALU WHEEL HUB - BLACK (2) DRIVE SHAFT PIN 2 x 10 WITH FLAT SPOT (2) FRONT ARM PIVOT PIN (2) REAR ARM PIVOT PIN (2) BALL END 4.9MM WITH THREAD 5MM (2) BALL END 4.9MM WITH THREAD 6MM (2) BALL END 4.9MM WITH THREAD 6MM (2) BALL END 4.9MM WITH THREAD 10MM (2) HEX SCREW SB M3x2.5 (10) HEX SCREW SB M3x3 (10) HEX SCREW SH M3x3 (10) HEX SCREW SH M3x3 (10) HEX SCREW SH M3x1 (10) HEX SCREW SH M3x3 (10)
30 3803	COMPOSITE ANTI-ROLL BAR BALL JOINT 4.9 MM (4) ANTI-ROLL BAR FOR BALL BEARINGS - REAR 1.3 MM	90 2205 90 2310	HEX SCREW SH M3x10`(10)
30 5231 30 5241	DRIVE SHAFT COUPLING - HUDY SPRING STEEL ™ DRIVE SHAFT REPLACEMENT PLASTIC CAP 3.5 MM (4)	90 3306 93 0407 94 0510	HEX SCREW SFH M3x6 (10) BALL-BEARING 4x7x2.5 (2)
30 5323 30 5324	DRIVE SHAFT 50MM - HUDY SPRING STEEL ™ (OPŤIÓN) DRIVE SHAFT 52MM - HUDY SPRING STEEL ™	94 0510 98 0210	HIGH-SPEED BALL-BEARÌNG 5x10x4 RUBBER SEALED (2) Pin 2x10 (10)







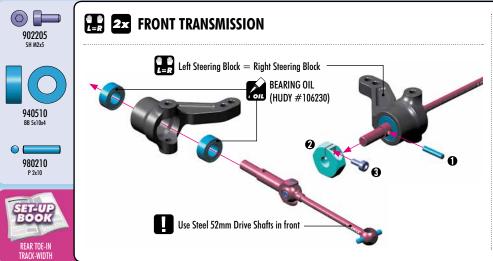
T4 OPTIONAL PARTS

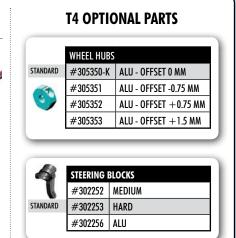
	UPRIGHTS	
3	#303351	1° - R - MEDIUM - 2-HOLE
	#303352	0° - R/L - MEDIUM - 2-HOLE
	#303353	1° - R - HARD - 2-HOLE
STANDARD	#303354	0° - R/L - HARD - 2-HOLE
	#303361	1° - L - MEDIUM - 2-HOLE
	#303362	0° - R/L - MEDIUM - 1-HOLE
	#303363	1° - L - HARD - 2-HOLE
	#303364	0° - R/L - HARD - 1-HOLE
	#303358	ALU 1° - R/L - 4-HOLE
	#303359	ALU 2° - R/L - 4-HOLE

	WHEEL HUBS		
STANDARD	#305350-K	ALU - OFFSET 0 MM	
6	#305351	ALU - OFFSET -0.75 MM	
	#305352	ALU - OFFSET +0.75 MM	
	#305353	ALU - OFFSET + 1.5 MM	

4	STEERING I	BLOCKS
U	#302252	MEDIUM
STANDARD	#302253	HARD
	#302256	ALU

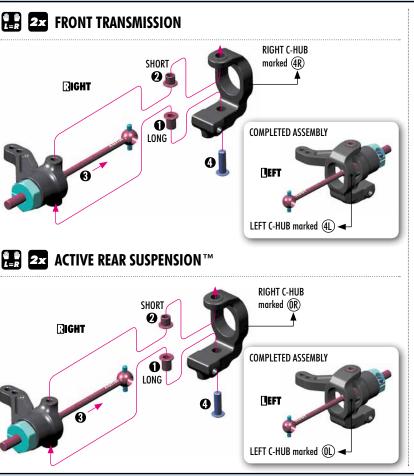


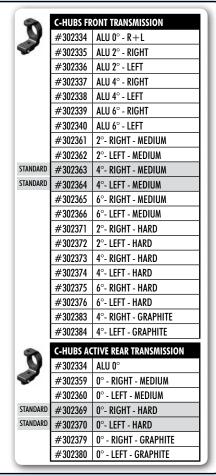


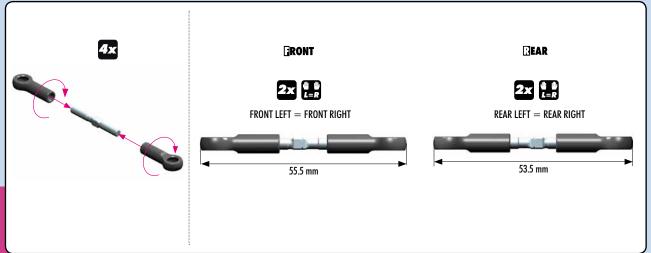








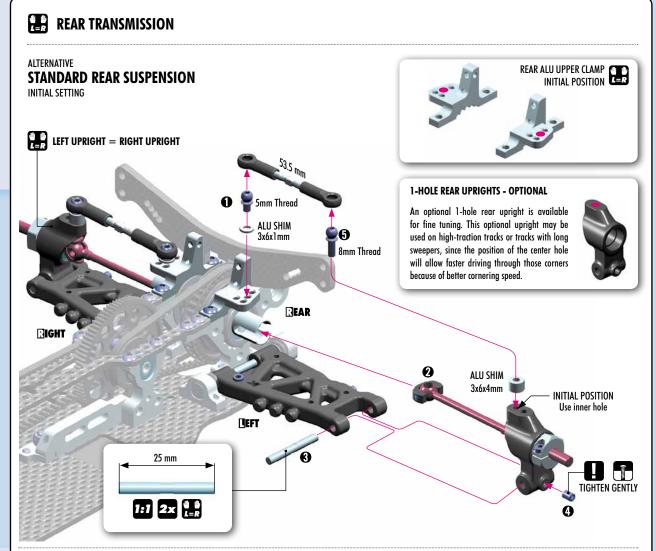








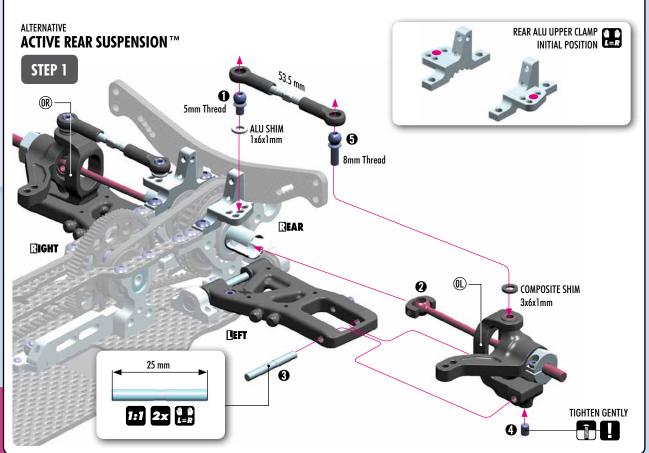
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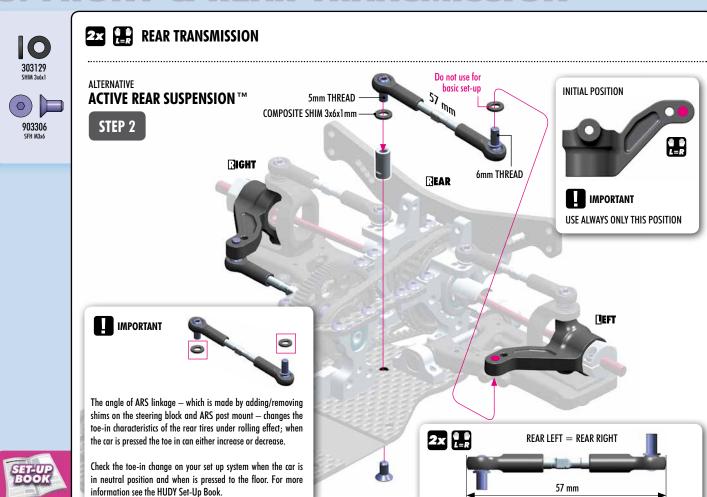


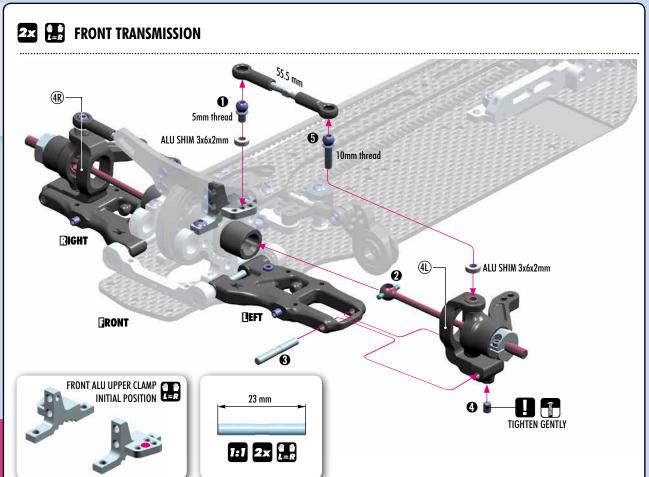














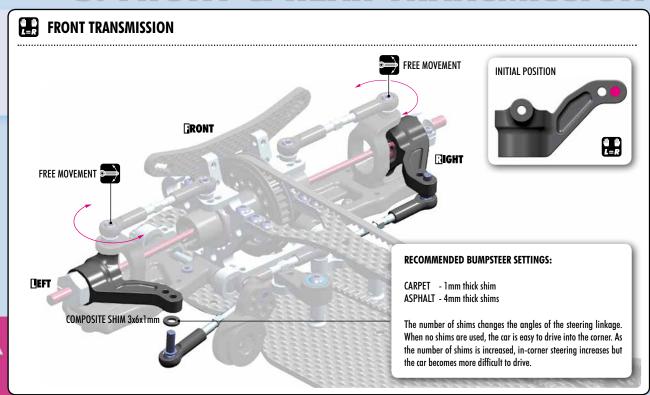
ACTIVE TOE-IN

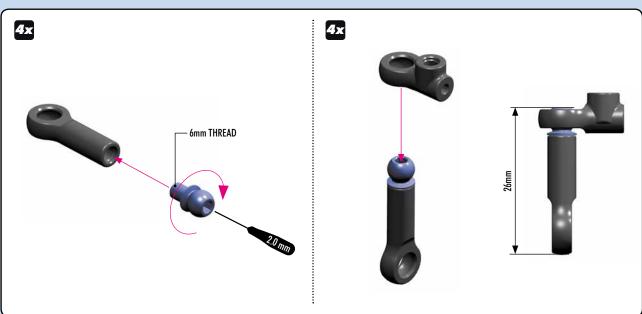
303123-K

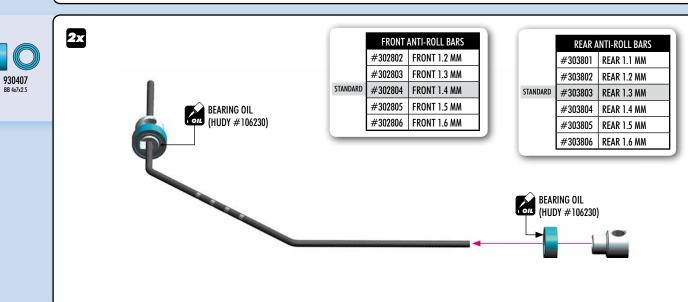
901304 SB M3x4

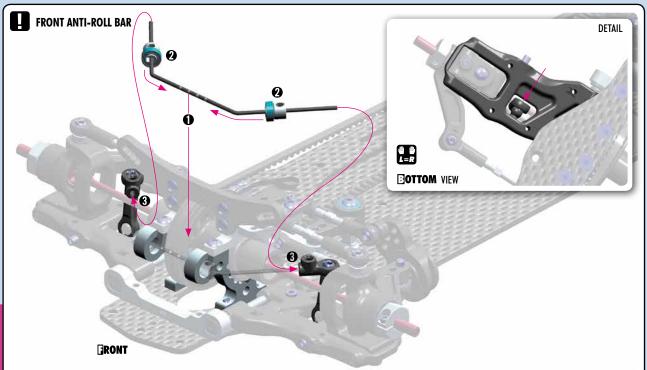


ACKERMANN BUMPSTEER



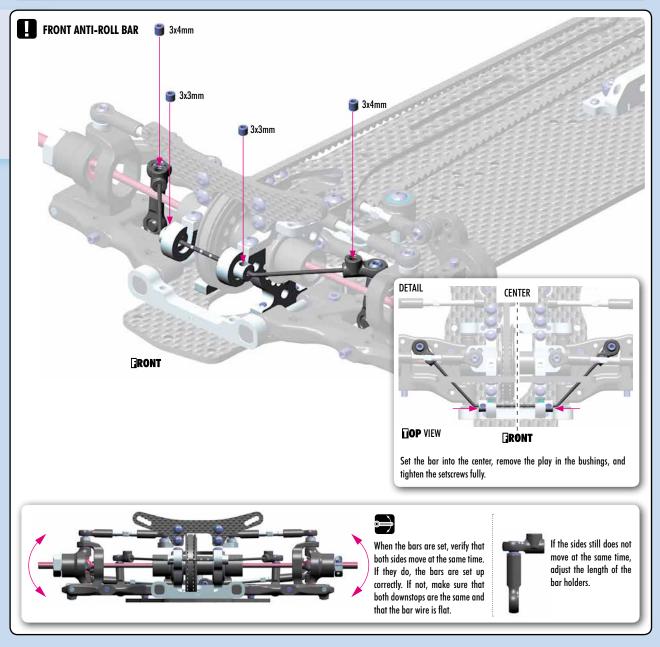


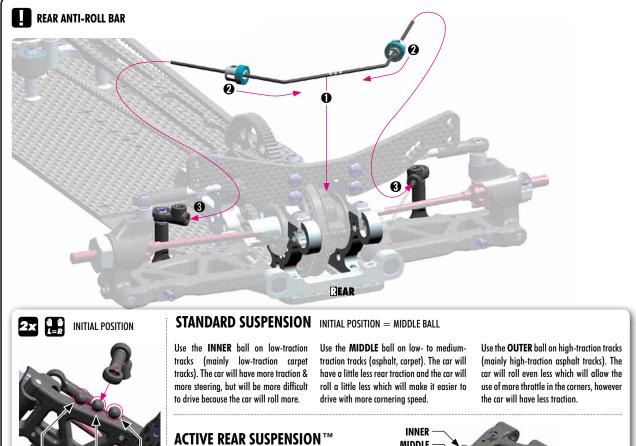














901303 SB M3x3

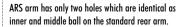
901304 SB M3x4

OUTER

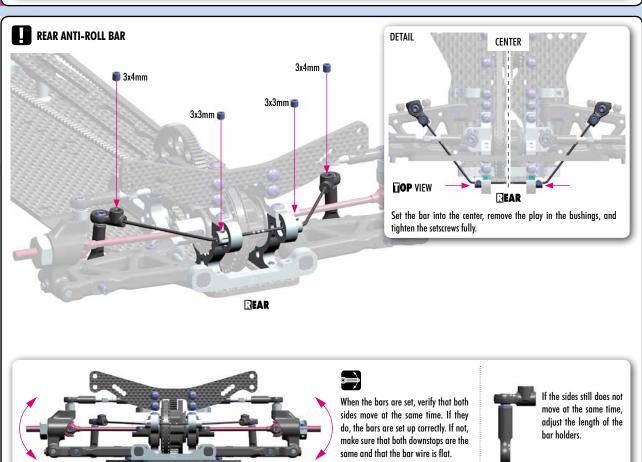
MIDDLE

INNER

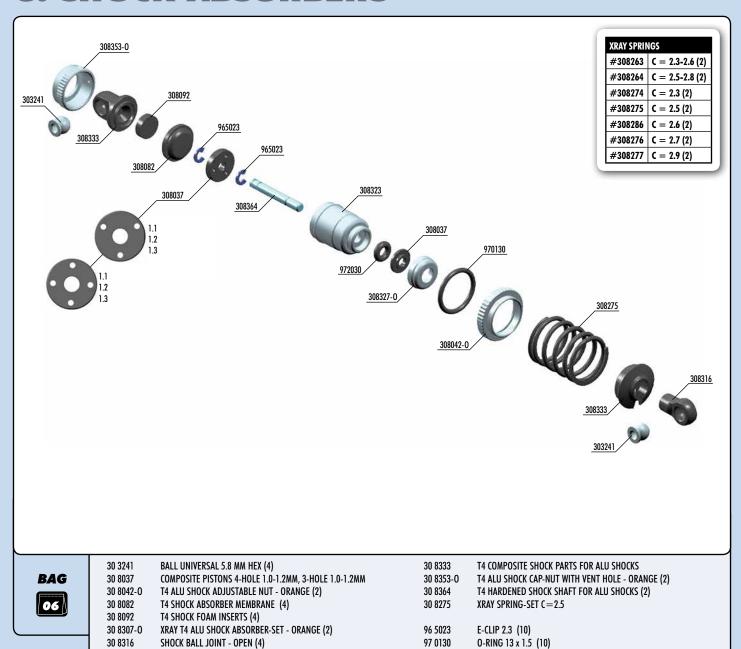








6. SHOCK ABSORBERS



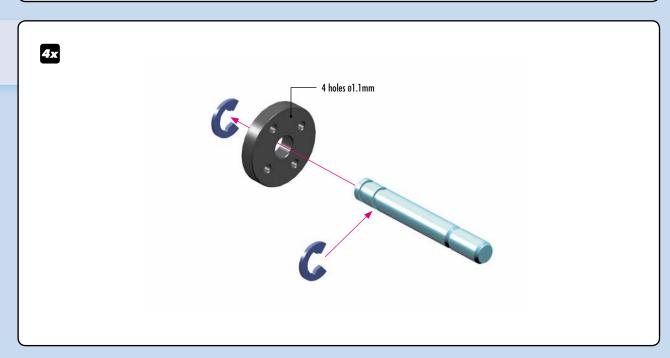


30 8323

30 8327-0

T4 ALU XRAY SHOCK BODY (2)

ALU CAP FOR XRAY SHOCK BODY - ORANGE

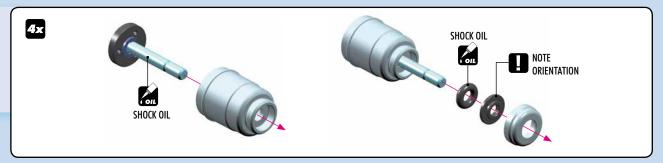


97 2030

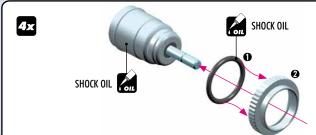
SILICONE O-RING 3 x 2 (10)

6. SHOCK ABSORBERS

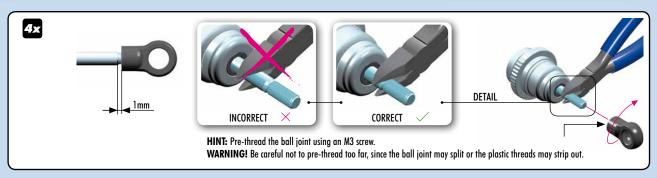








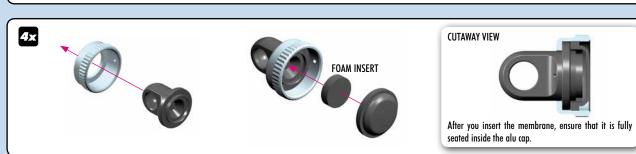






SHOCK FILLING

- 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 to allow oil into all cavities within the shock body.
- Extend the piston rod most of the way out of the shock body. Let the shock rest for 5 minutes to allow the air bubbles to escape.
- Add shock oil as necessary.





4x

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

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.

SHOCK OILS				
#106310	100cSt			
#106315	150cSt			
#106320	200cSt			
#106325	250cSt			
#106330	300cSt			
#106335	350cSt			
#106340	400cSt			

450cSt
500cSt
550cSt
600cSt
700cSt
800cSt
900cSt
1000cSt
2000cSt



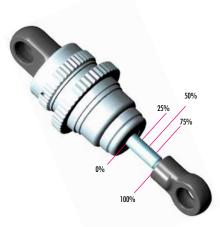


RELEASE 2-3 turns TIGHTEN FULLY

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

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

REBOUND CHECK



REBOUND CHECK:

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

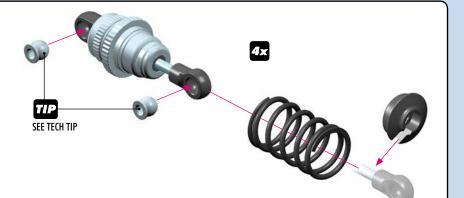
100% rebound - do not do step 2 and 3

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

SHOCK LENGTH ADJUSTMENT:

It is VERY important that all shocks are equal length. Fully extend the shock absorber and measure the end-to-end length; we recommend using digital calipers to give an accurate measurement. If a shock absorber is shorter or longer than others, adjust the shock length by tightening or loosening the ball joint on the shock rod.





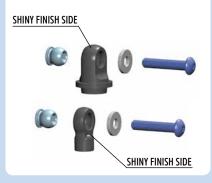
TECH TIP

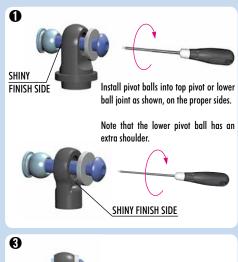
Follow this tech tip to properly install pivot balls into the top pivot and bottom ball joint.

Parts Needed:

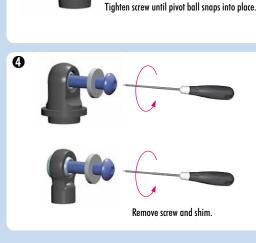
- M3x16 SH screw
- M3 shim

Note that the composite parts have two sides, noticeable around the pivot ball hole: one side has a shiny finish, the other side has a regular finish.

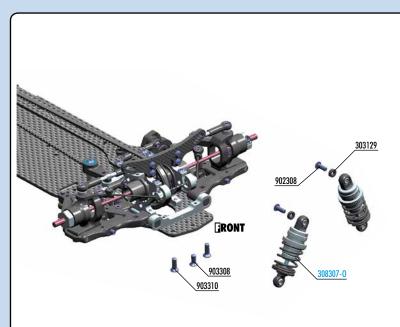


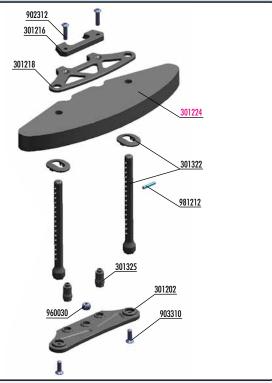


Ensure pivot balls move freely.



7. FRONT & REAR ASSEMBLY

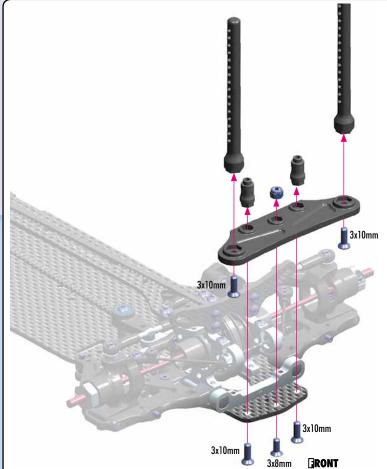






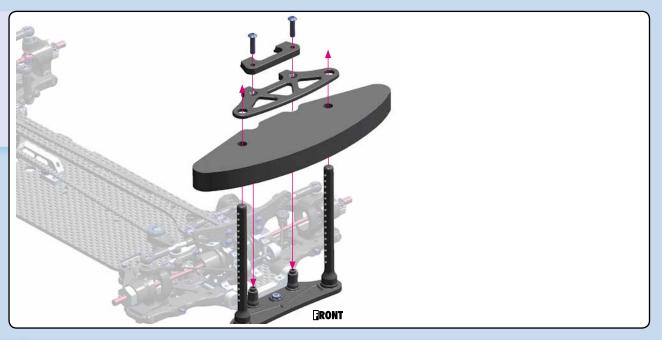
30 1202	COMPOSITE BUMPER	90 2308	HEX SCREW SH M3x8 (10)
30 1213	GRAPHITE BUMPER UPPER HOLDER 2.5MM (OPTION)	90 2312	HEX SCREW SH M3x12 (10)
30 1216	COMPOSITE BUMPER UPPER HOLDER BRACE	90 3308	HEX SCREW SFH M3x8 (10)
30 1218	COMPOSITE UPPER HOLDER FOR BUMPER	90 3310	HEX SCREW SFH M3x10 (10)
30 1322	FRONT BODY MOUNT SET	96 0030	NUT M3 (10)
30 1323	FRONT BODY MOUNT SET $+1$ MM HEIGHT (OPTION)	98 1212	PIN 2x12 (10)
30 1324	FRONT BODY MOUNT SET +2MM HEIGHT (OPTION)		
30 1325	T4 COMPOSITE BRACE FOR BUMPER - LOW (2)	30 1224	T4 FOAM BUMPER
30 3129	COMPOSITE SET OF WHEELBASE SHIMS (3x1MM; 1x2MM) (2)		
		30 8307-0	XRAY T4 ALU SHOCK ABSORBER-SET - ORANGE (2)



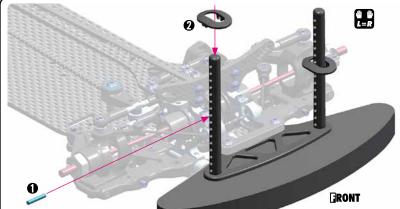


7. FRONT & REAR ASSEMBLY





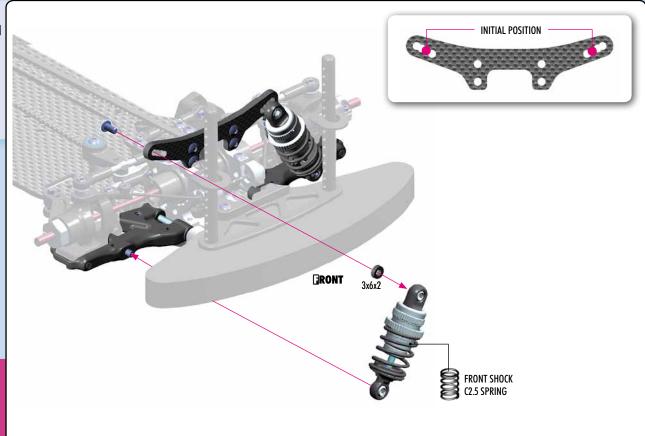






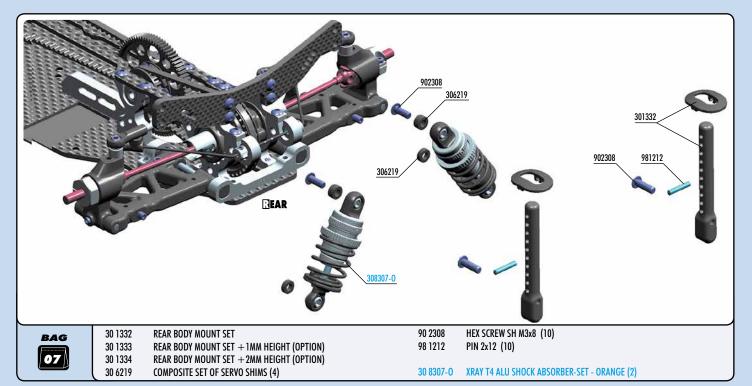
Very handy, easily externally adjustable body post from Swiss 7075 T6 aluminum. Allows for adjustment of body height by 3mm without needing to change the position on the body post.

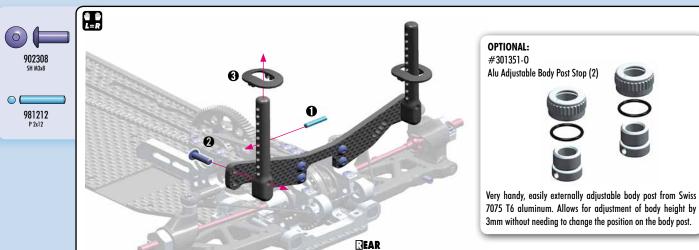


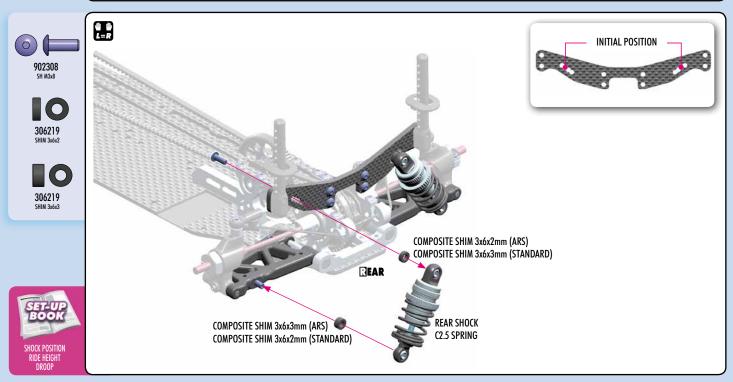




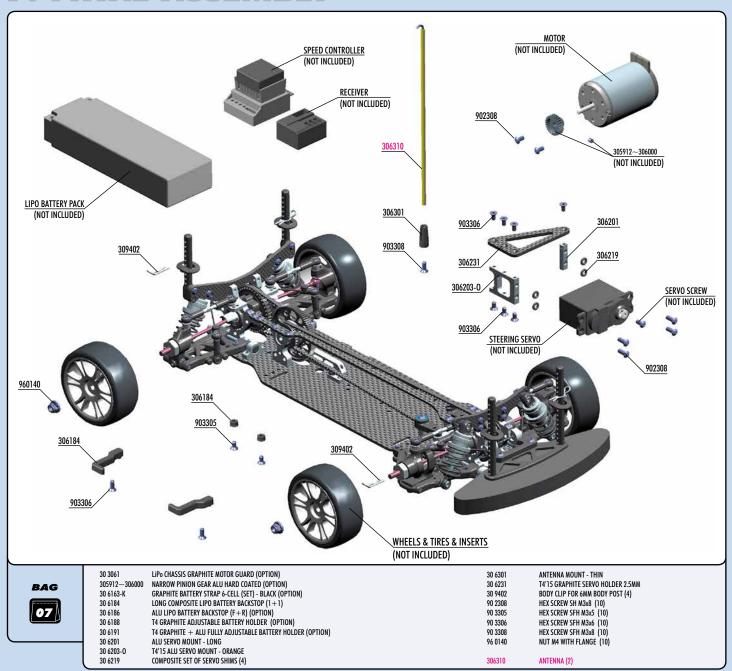
7. FRONT & REAR ASSEMBLY

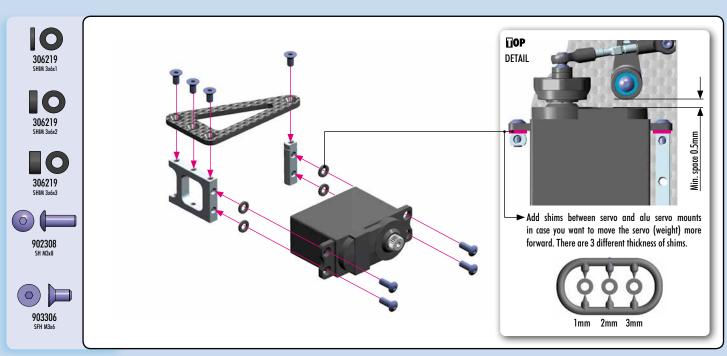






7. FINAL ASSEMBLY







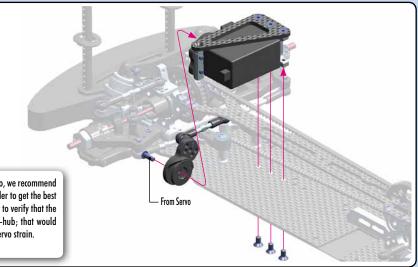
For improved weight balance and for more space for electronics, we recommend using a narrow, light servo.



Attach servo arm to servo output shaft using screw from servo. Servo saver must be perpendicular to chassis when servo is in neutral.



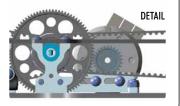
When adjusting steering on the radio, we recommend using full steering adjustment in order to get the best steering from the car. It is important to verify that the steering block does not touch the C-hub; that would lead to chassis tweak due to extra servo strain.





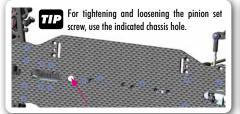
Adjust the motor so the pinion meshes with the spur gear properly. Make sure the gear mesh is not too tight.

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





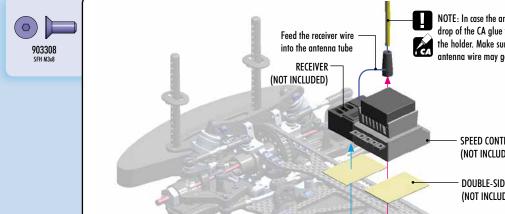
Some motors do not have a chamfer on the motor housing. If your motor does not have a chamfer on the housing and you want to use a small pinion, the motor may touch the top deck. Use a moto-tool with grinding bit or file to remove material from the top-deck; this will allow the motor to be moved closer to the spur gear.

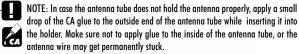






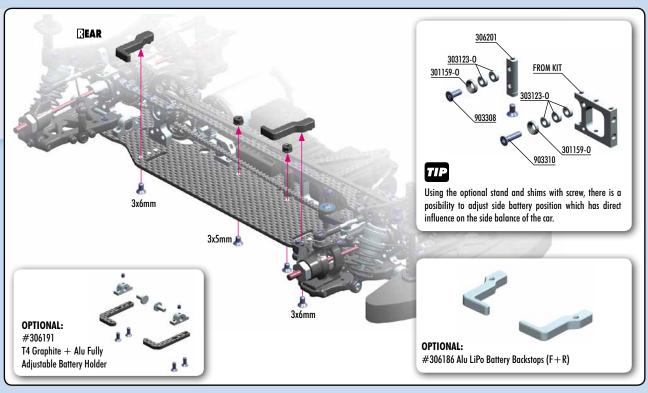






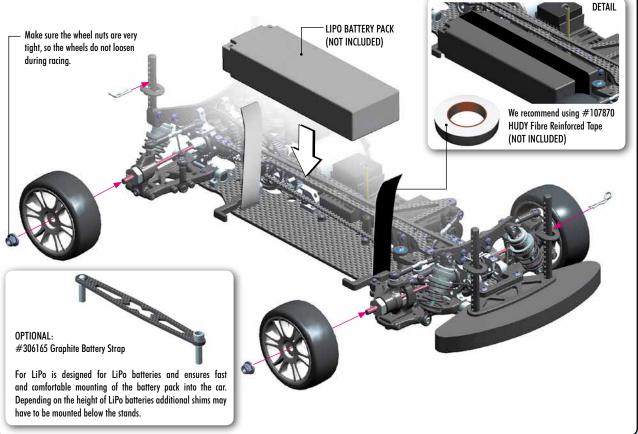
7. FINAL ASSEMBLY

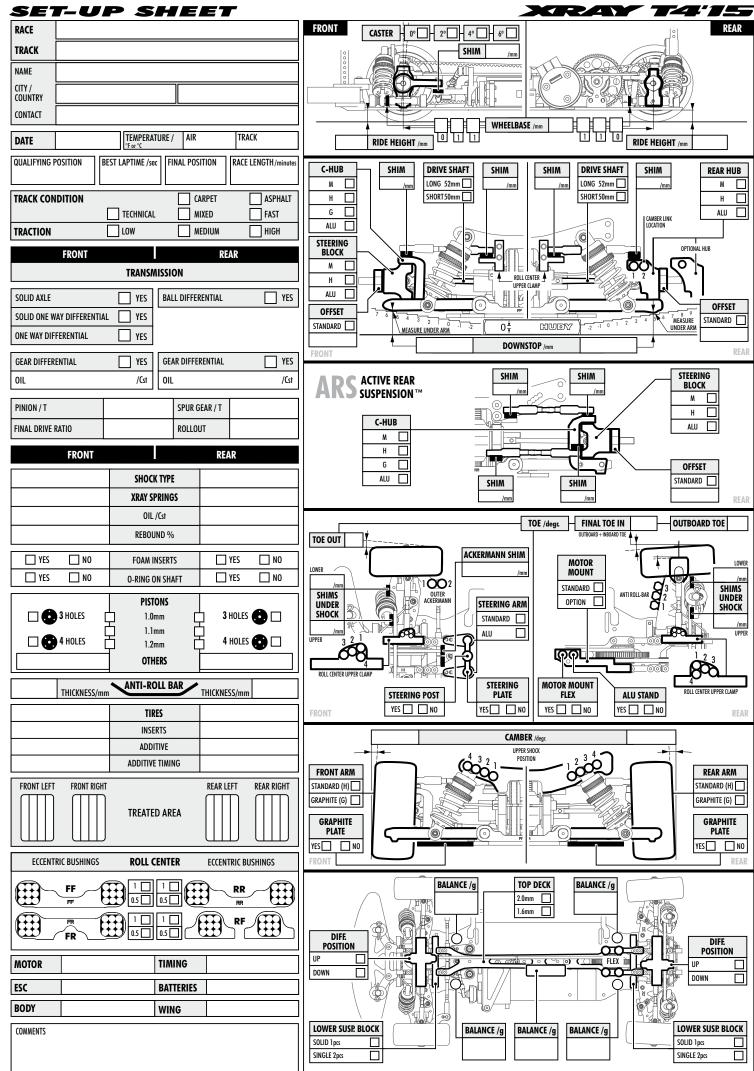












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