1/10 LUXURY ELECTRIC STADIUM TRUCK



INSTRUCTION MANUAL
FOR XT2C'24 & XT2D'24 EDITION

BEFORE YOU START

This is a high-competition, high-quality RC car intended for persons aged 16 years and older with previous experience building and operating RC model racing cars. This is NOT a toy; it is a precision racing model. This model racing car is NOT intended for use by beginners, inexperienced customers, or by children without direct supervision of a responsible, knowledgeable adult. If you DO NOT fulfill these requirements, please return the kit in unused and unassembled form back to the shop where you have purchased it.

Before building and operating your XRAY, YOU MUST read through all of the operating instructions and instruction manual and fully understand them to get the maximum enjoyment and prevent unnecessary damage.

Read carefully and fully understand the instructions before beginning assembly.

Make sure you review this entire manual, download and use set-up book from the web, and examine all details carefully. If for some reason you decide this is NOT what you wanted or expected, DO NOT continue any further. Your hobby dealer can NOT accept your kit for return or exchange after it has been partially or fully assembled.

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 notice.

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.teamxrav.com

XRAY Europe

K Vystavisku 6992 91101 Trenčín Slovakia, EUROPE Phone: 421-32-7401100 Fax: 421-32-7401109

E-mail: info@teamxray.com

RC America, 2030 Century Center Blvd #15 Irving, TX 75062 USA Phone: (214) 744-2400

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

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

SAFETY PRECAUTIONS

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 garees 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
- 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.

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IMPORTANT NOTES - ELECTRICAL

- Insulate any exposed electrical wiring (using heat shrink tubing or electrical tape) to prevent dangerous short circuits. Take maximum care in wiring, connecting and insulating cables. Make sure cables are always connected securely. Check connectors for if they become loose. And if so, reconnect them securely. Never use RC models with damaged wires. A damaged wire is extremely dangerous, and can cause short-circuits resulting in fire. Please have wires repaired at your local hobby shop.
- Low battery power will result in loss of control. Loss of control can occur due
 to a weak battery in either the transmitter or the receiver. Weak running
 battery may also result in an out of control car if your car's receiver power is
 supplied by the running battery. Stop operation immediately if the car starts
 to slow down.
- · When NOT using RC model, always disconnect and remove battery.
- DO NOT disassemble battery or cut battery cables. If the running battery short-circuits, approximately 300W of electricity can be discharged, leading to fire or burns. Never disassemble battery or cut battery cables.
- Use a recommended charger for the receiver and transmitter batteries and follow the instructions correctly. Over-charging, incorrect charging,

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

R/C & BUILDING TIPS

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

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

WARRANTY

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

Due to the high performance level of this model car you will need to periodically maintain and replace consumable components. Any and all warranty coverage will NOT cover replacement of any part or component damaged by neglect, abuse, or improper or unreasonable use. This includes but is NOT limited to damage from crashing, chemical and/or water damage, excessive moisture, improper or no maintenance, or user modifications which compromise the integrity of components. Warranty will NOT cover components that are considered consumable on RC vehicles. XRAY DOES NOT pay nor refund shipping on any component sent to XRAY or its distributors for warranty. XRAY reserves the right to make the final determination of the warranty status of any component or part.

Limitations of Liability

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

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

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

All rights reserved.

QUALITY CERTIFICATE

XRAY MODEL RACING CARS uses only the highest quality materials, the best compounds for molded parts and the most sophisticated manufacturing processes of TQM (Total Quality Management). We guarantee that all parts of a newly-purchased kit are manufactured with the highest regard to quality. However, due to the many factors inherent in model racecar competition,

we cannot guarantee any parts once you start racing the car. Products which have been worn out, abused, neglected or improperly operated will NOT be covered under warranty.

We wish you enjoyment of this high-quality and high-performance RC car and wish you best success on the track!

In line with our policy of continuous product development, the exact specifications of the kit may vary. In the unlikely event of any problems with your new kit, you should contact the model shop where you purchased it, quoting the part number.

We do reserve all rights to change any specification without prior notice. All rights reserved.



EQUIPMENT INCLUDED * Kit includes smaller but sufficient amount of oil and grease to build the car.



EQUIPMENT REQUIRED



NOT INCLUDED



Follow Set-Up Book

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			
#32XXXX	TYPE1	OPTION 1	
#32XXXX	TYPE2	OPTION 2	
#32XXXX		INCLUDED	
#32XXXX		OPTION 3	

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

COLOR INDICATIONS

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

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

321200 321100 STYLE A - indicates parts that are included in the bag marked for the section.

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

324900

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

325100

STYLE D - indicates parts that are optional.

TECH TIPS

TIP DRIVE SHAFT PIN 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.

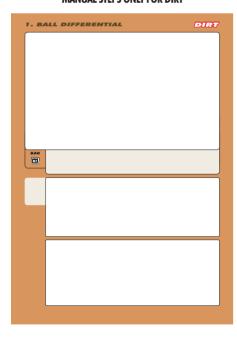


For quick & easy drive pin replacements use #106000 HUDY Drive Pin Replacement Tool together with #106036 Ejector Pivot Pin & Alternating Pivot 2.5mm.

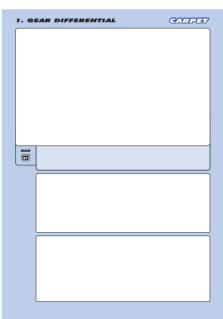


To replace the worn pins use only premium HUDY drive pins #106053.

MANUAL STEPS ONLY FOR DIRT



MANUAL STEPS ONLY FOR CARPET

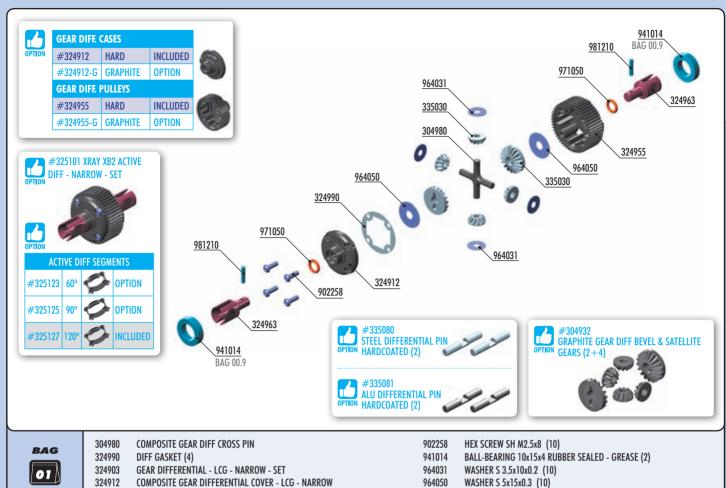


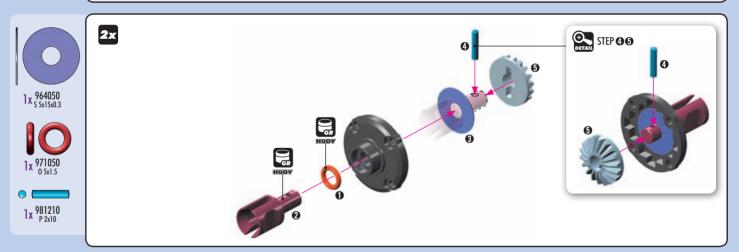
MANUAL DUAL STEPS FOR CARPET AND DIRT

3. REAR DRIVETRAIN	CARPET DIRT
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1. GEAR DIFFERENTIAL







SILICONE O-RING 5x1.5 (10)

PIN 2x10 (10)

971050

981210

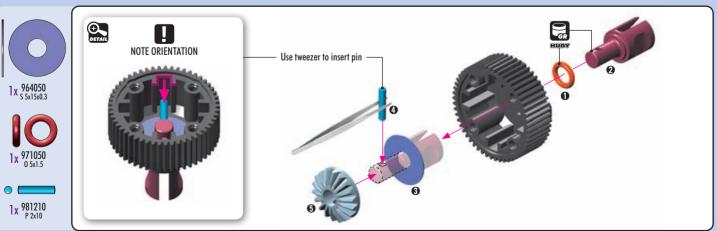
COMPOSITE GEAR DIFFERENTIAL CASE WITH PULLEY 53T - LCG - NARROW

GEAR DIFF OUTDRIVE ADAPTER - LCG - FOR NARROW DIFF - HSS™ (2)

STEEL DIFF BEVEL & SATELLITE GEARS (2+4)

324955 324963

335030

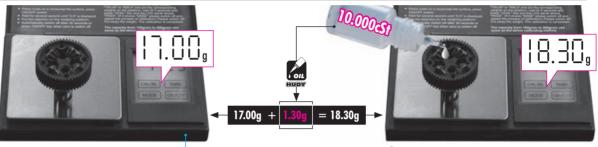








TO ENSURE YOU HAVE THE SAME AMOUNT OF OIL FROM REBUILD TO REBUILD, DO THE FOLLOWING:



1 Put the diff (without oil) on the scale and check the weight (approximately 17.00g)

HUDY Professional Digital Pocket Scale 300g/0.01g

HUDY Professional Digital Pocket Scale 3000g/0.1g

2 Slowly pour oil into the diff and watch the weight. Add 1.30g of oil into the diff. The approximate weight of the diff including oil is 18.30g.



TIPS FOR REAR DIFFERENTIAL

LOW-MEDIUM TRACTION 5.000cSt (HUDY #106450) MEDIUM-HIGH TRACTION 15.000cSt (HUDY #106515)

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



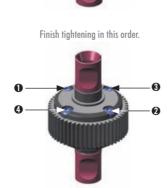










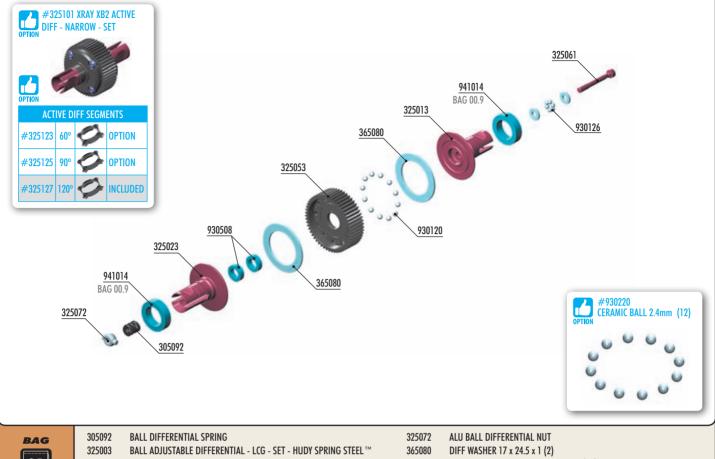






1. BALL DIFFERENTIAL

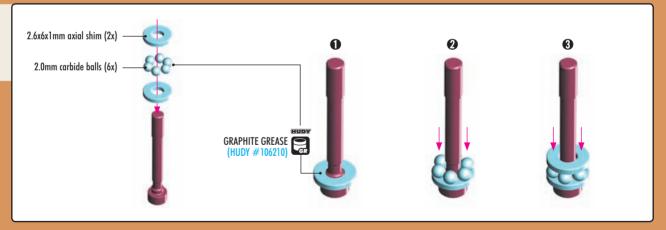






325013 BALL DIFFERENTIAL SHORT OUTPUT SHAFT - LCG - HUDY SPRING STEEL $^{\mathsf{TM}}$ 930120 CARBIDE BALL 2.4mm FOR BALL DIFF (12) 325023 BALL DIFFERENTIAL LONG OUTPUT SHAFT - LCG - HUDY SPRING STEEL™ 930126 CARBIDE BALL-BEARING AXIAL 2.6x6x1mm **COMPOSITE BALL DIFFERENTIAL GEAR 53T** BALL-BEARING 5x8x2.5 STEEL SEALED - OIL (2) 325053 930508 325061 SCREW FOR BALL DIFF ADJUSTMENT - SPRING STEEL™ 941014 BALL-BEARING 10x15x4 RUBBER SEALED - GREASE (2)



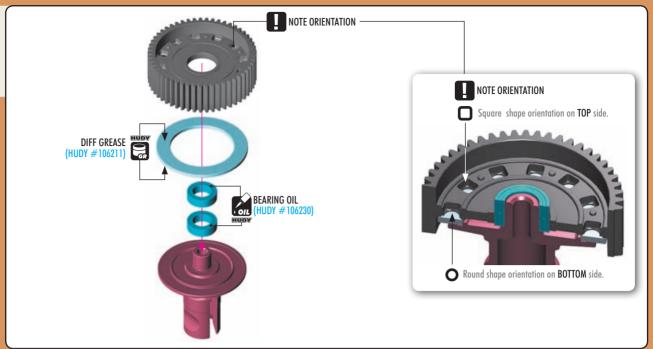




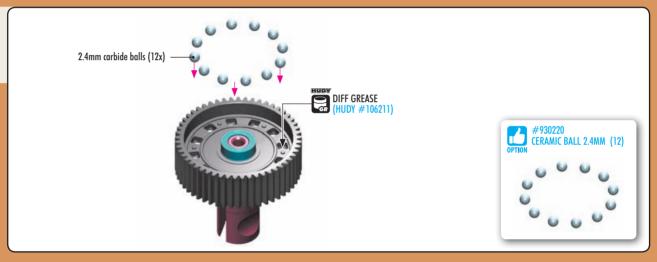
1. BALL DIFFERENTIAL



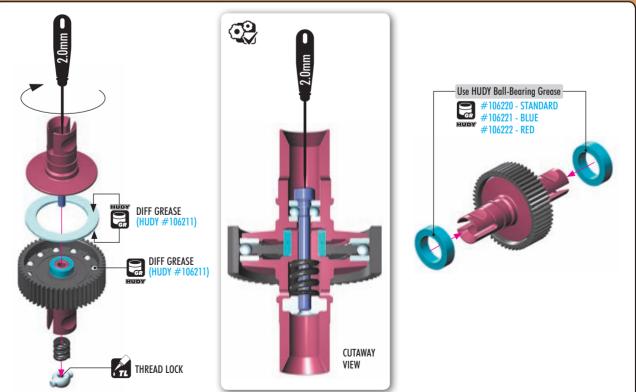












BALL DIFF BREAK-IN & SET-UP INFO DIRT





BEFORE RACING, follow these steps to properly break in the differential.

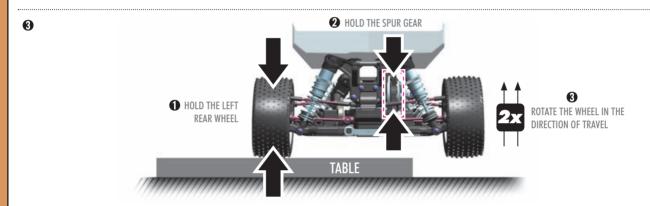
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2 Loosen the adjustment screw 1/2 turn (180° CCW).







4



1 LOOSEN THE ADJUSTMENT SCREW 1/8 TURN (45°CCW).



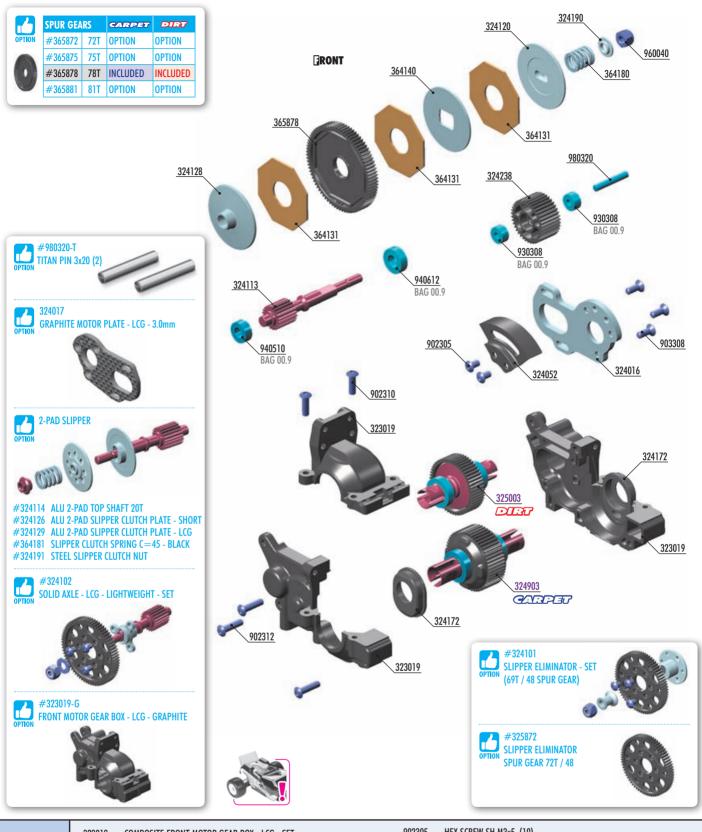




2. REAR TRANSMISSION

GARPET







323019 COMPOSITE FRONT MOTOR GEAR BOX - LCG - SET ALU MOTOR PLATE - LCG - SWISS 7075 T6 (3mm) 324016 COMPOSITE GEAR COVER - LCG 324052 ALU 3-PAD TOP SHAFT 20T - LCG - SWISS 7075 T6 - HARD COATED ALU 3-PAD SLIPPER CLUTCH PLATE - SWISS 7075 T6 324113 324120 324128 ALU 3-PAD SLIPPER CLUTCH PLATE WITH ADAPTER - LCG 324172 COMPOSITE ADJUSTMENT BALL-BEARING HUB (2) 324190 **ALU 3-PAD SLIPPER CLUTCH SHIM** COMPOSITE GEAR 38T - LCG - GRAPHITE 324238 SLIPPER CLUTCH PAD SLS - SOFT (3) 364131 364140 ALU 3-PAD SLIPPER CLUTCH PLATE DISC - 7075 T6 SLIPPER CLUTCH SPRING C=30 - BLACK 364180 365878 COMPOSITE 3-PAD SLIPPER CLUTCH SPUR GEAR 78T / 48

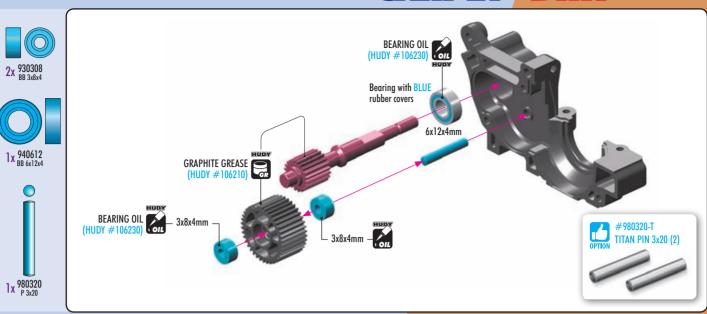
902305 HEX SCREW SH M3x5 (10) HEX SCREW SH M3x10 (10) 902310 902312 HEX SCREW SH M3x12 (10) 903308 HEX SCREW SFH M3x8 (10) BALL-BEARING 3x8x4 STEEL SEALED - OIL (2) 930308 BALL-BEARING 5x10x4 RUBBER SEALED - OIL (2) 940510 940612 BALL-BEARING 6x12x4 RUBBER SEALED - OIL (2) NUT M4 (10) 960040 980320 PIN 3x20 (10) CARPET

324903 GEAR DIFFERENTIAL - LCG - NARROW - SET

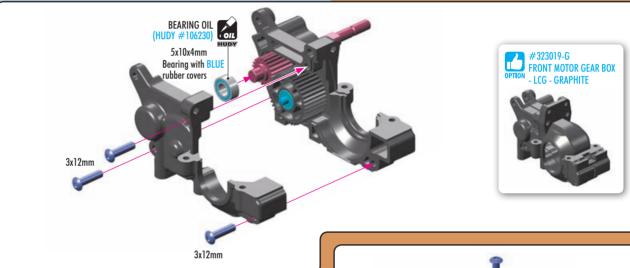
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325003 BALL ADJUSTABLE DIFFERENTIAL - LCG - SET - HUDY SPRING STEEL™

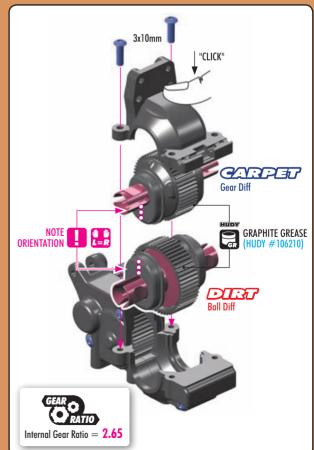
2. REAR TRANSMISSION CARPET DIRT









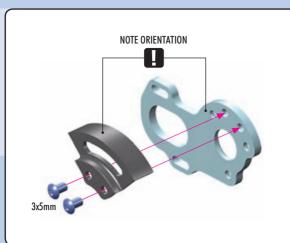


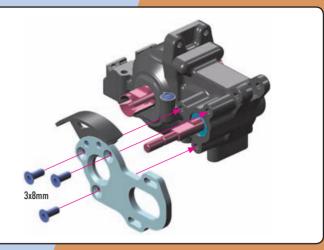
2. REAR TRANSMISSION CARPET DIRT

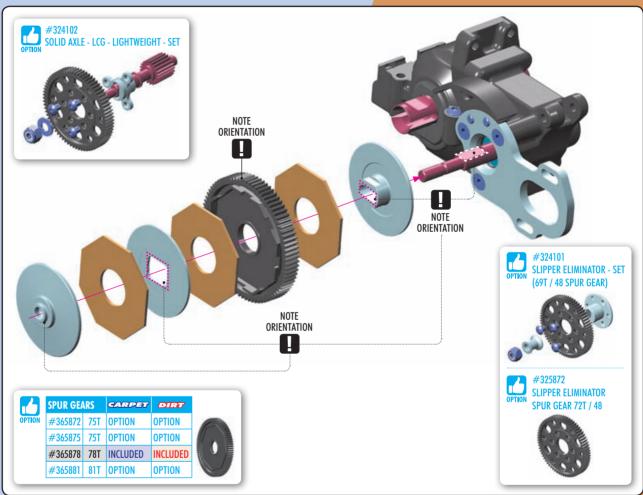




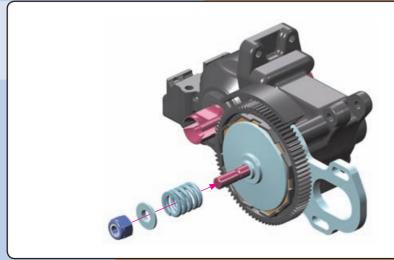
3x 903308 SFH M3x8

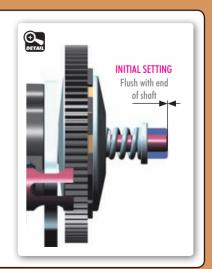






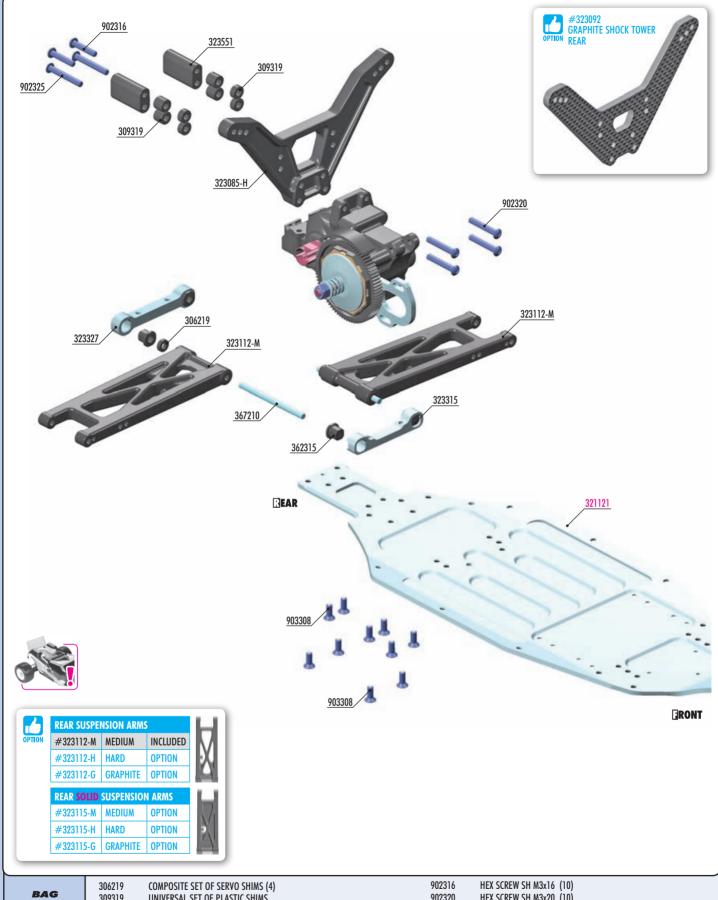






3. REAR SUSPENSION CARPET DIRT







306219	COMPOSITE SET OF SERVO SHIMS (4)
309319	UNIVERSAL SET OF PLASTIC SHIMS
323085-H	XT2 COMPOSITE SHOCK TOWER REAR - LCG - HARD
323551	XT2 COMPOSITE REAR BODY MOUNT (2)
323112-M	XT2 COMPOSITE SUSPENSION ARM REAR LOWER - MEDIUM
323315	ALU REAR LOWER SUSPENSION HOLDER - WIDER - FRONT
323327	ALU REAR LOWER SUSPENSION HOLDER 3° - WIDER - REAR
367210	SUSPENSION PIVOT PIN (2)
362315	ECCENTRIC BUSHING SET (2)

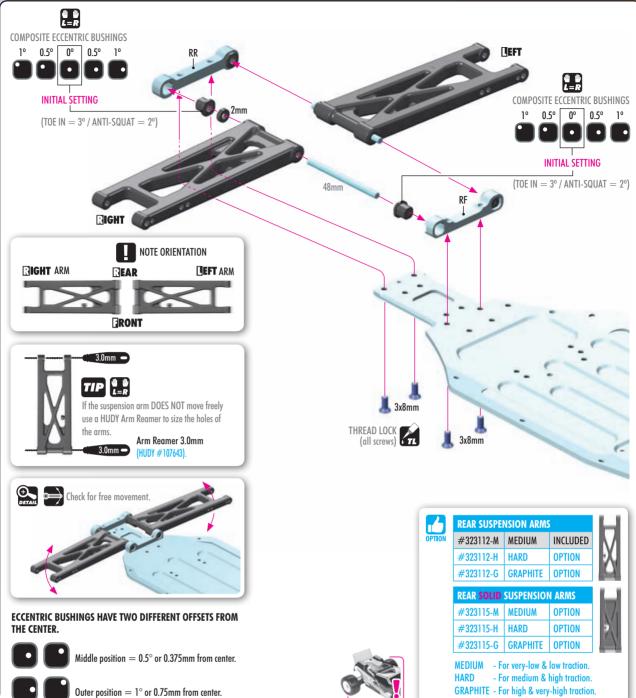
902316 902320 902325	HEX SCREW SH M3x16 HEX SCREW SH M3x20 HEX SCREW SH M3x25	(10)			
903308	HEX SCREW SFH M3x8	. ,	10110	CHIICC TOTE T	

321121 ALU CHASSIS 1-PIECE - 2.5mm - LONG - SWISS 7075 T6

14







SET-UP BOOK ANTI-SQUAT ROLL CENTER TRACK-WIDTH





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).

	ANTI-SQUAT	
RR		RF (°)
0	0 0	=2°
0	0 0	=3°
0	0 0	=1°
		• =3°
		=2°
	. 0	=4°
•	0	
•		=2°
•		. =0°
	,	

	KOLL CENTER		
RR	RF		(mm)
•	00	=+	0.75mm
•	0 0	- 0=0	mm
	0.0		0.75mm

		IKACK-W	IVIH	
	RR		RF	(mm)
0	- 10	0	0	=+1.5 _{mm}
0	-	0 0	-0	$=0_{mm}$
0		0	0	=-1.5 _{mm}
Th	المام المام	L :- al:al:	.flaa.d h	

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

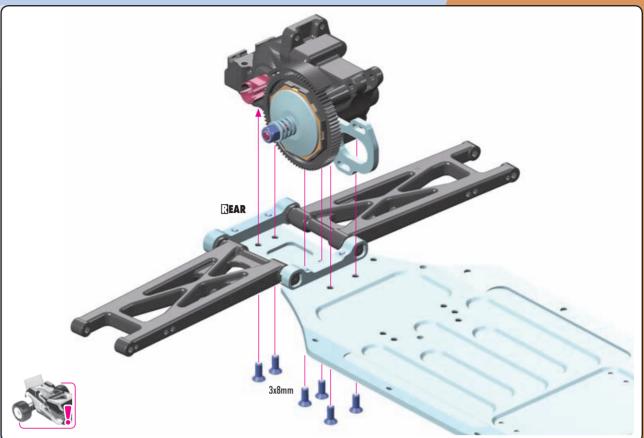
The tables describe the amounts of adjustment using the center and outside positions of the eccentric bushings. The middle position eccentric hushings allow for finer adjustment increments

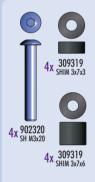
Example:	isinings unlow for filler u	ujusiinein intremenis.	
$0(RR) - 0 (RF) = 2^{\circ}$	○ HR	0 0	= 2°
$0(RR) - 0.5 (RF) = 2.5^{\circ}$	○ HI	0 0	= 2.5°
O(RR) - 1 (RF) $= 3^{\circ}$	● PR	0 0	= 3°

TO	DE-IN	
RR	RF	(°)
•	0	=3°
•	0	- 0 =4°
•	0	=2°
•	0	=2°
•	0	=3°
•	0	-1°
•	0	=4°
•	0	- 5°
•	0	=3°
	R	

3. REAR SUSPENSION CARPED DIRT

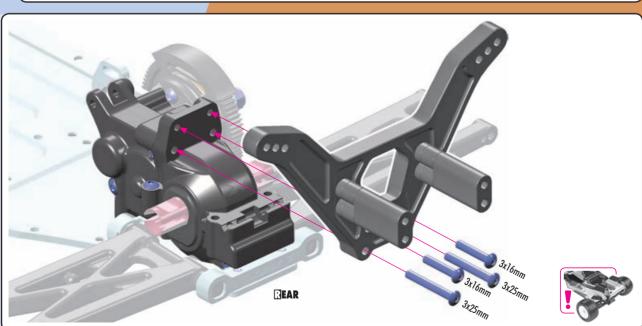






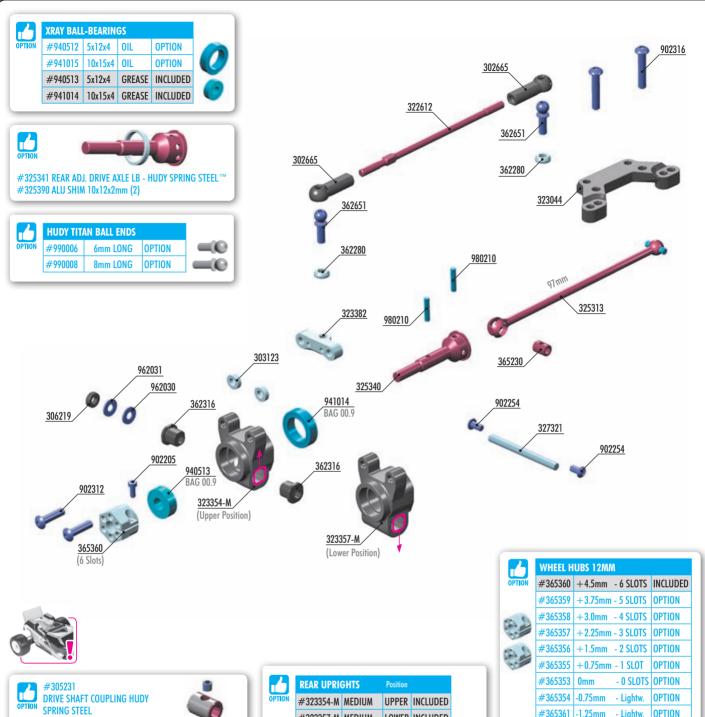






3. REAR DRIVETRAIN

GARPET DIRT









4	REAR UPRI	GHTS	Position	
TION	#323354-M	MEDIUM	UPPER	INCLUDED
	#323357-M	MEDIUM	LOWER	INCLUDED
	#323354-H	HARD	UPPER	OPTION
	#323354-G	GRAPHITE	UPPER	OPTION
	#323357-G	GRAPHITE	LOWER	OPTION
	#323355	ALU HIGH	UPPER	OPTION
	#323356	ALU LOW	LOWER	OPTION

#365361 -1.25mm - Lightw. OPTION **OPTIONAL HEX HUB EFFECTS**

> Different offset hex hubs are used to increase or decrease the track-width.

LESS	OFFSE
Dogr	moro

ar - more traction Front - more steering **MORE OFFSET** Rear - less traction Front - less steering

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302665	COMPOSITE BALL JOINT 4.9mm - CLOSED WITH HOLE (4)	362651	BALL END 4.9mm WITH THREAD 8mm (2)
303123	ALU SHIM 3x6x2.0mm (10)	365230	DRIVE SHAFT COUPLING - HUDY SPRING STEEL™
306219	COMPOSITE SET OF SERVO SHIMS (4)	365360	ALU WHEEL HUB 12mm - OFFSET "+3.0mm" (2)
322612	ADJUSTABLE TURNBUCKLE 75mm M3 L/R - HUDY SPRING STEEL™ (2)		
323044	COMPOSITE REAR ROLL CENTER HOLDER	902205	HEX SCREW SH M2x5 (10)
323354-M	COMPOSITE UPRIGHT REAR - UPPER POSITION - MEDIUM	902254	HEX SCREW SH M2.5x4 (10)
323357-M	COMPOSITE UPRIGHT REAR - LOWER POSITION - MEDIUM	902312	HEX SCREW SH M3x12 (10)
323382	ALU REAR HUB PLATE FOR MULTI ADJ. UPRIGHT - 1-HOLE - 7075 T6	902316	HEX SCREW SH M3x16 (10)
325313	DRIVE SHAFT 97mm WITH 2.5mm PIN - HUDY SPRING STEEL™	940513	BALL-BEARING 5x12x4 RUBBER SEALED - GREASE (2)
325340	REAR DRIVE AXLE LB - HUDY SPRING STEEL™	941014	BALL-BEARING 10x15x4 RUBBER SEALED - GREASE (2)
327321	REAR ARM PIVOT PIN (2)	962030	WASHER S 3x6x0.3 (10)
362280	ALU CONICAL SHIM 3x6x2.0mm (10)	962031	WASHER S 3x6x0.1 (10)
362316	ECCENTRIC BUSHING SET - OPEN (2)	980210	PIN 2x9.8 (10)
	, ·		

17

3. REAR DRIVETRAIN

#325390 ALU SHIM 10x12x2mm (2)

GARPET



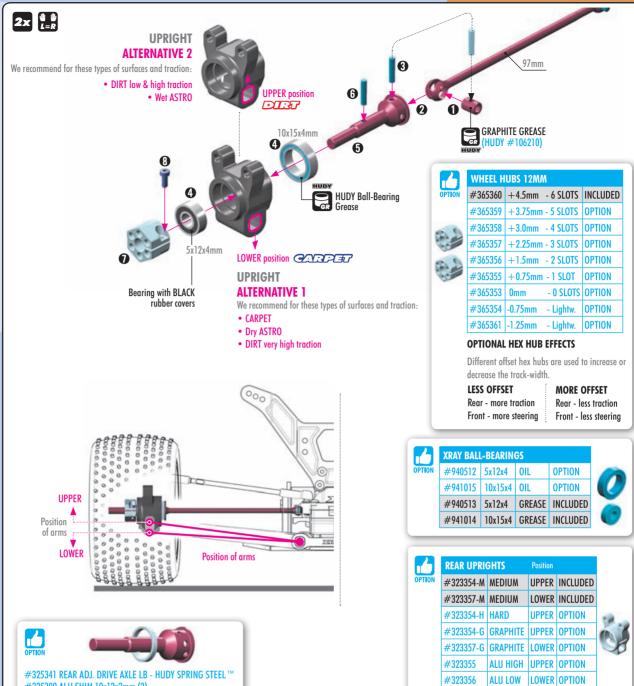




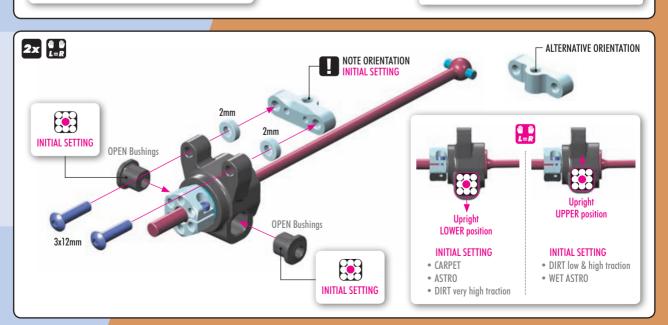










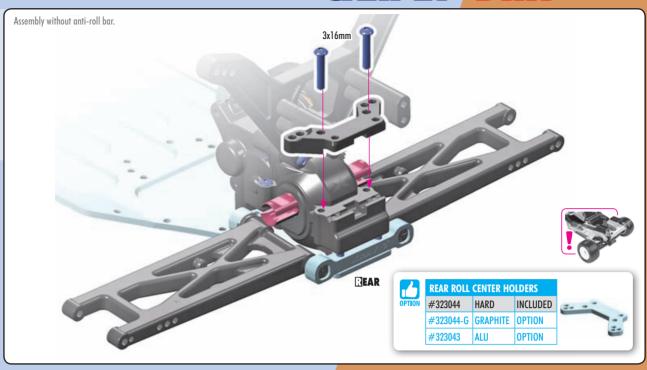


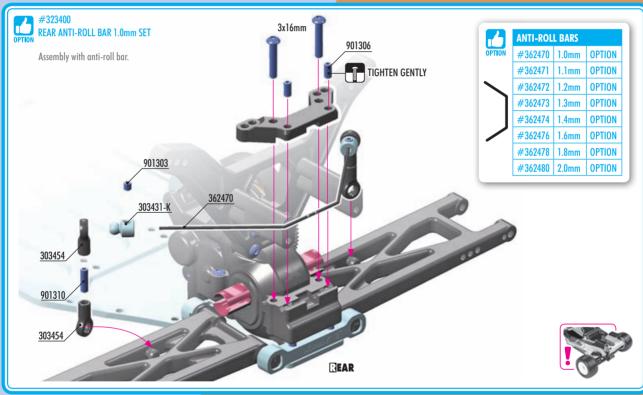
3. REAR DRIVETRAIN

CARPET DIRT









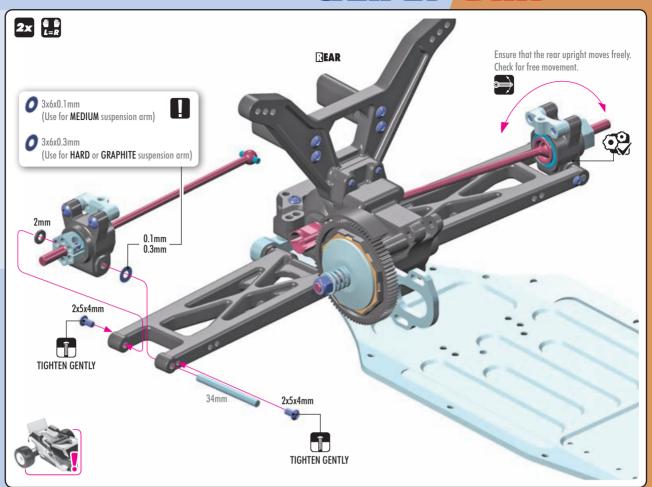


3. REAR DRIVETRAIN GARPET DIRT

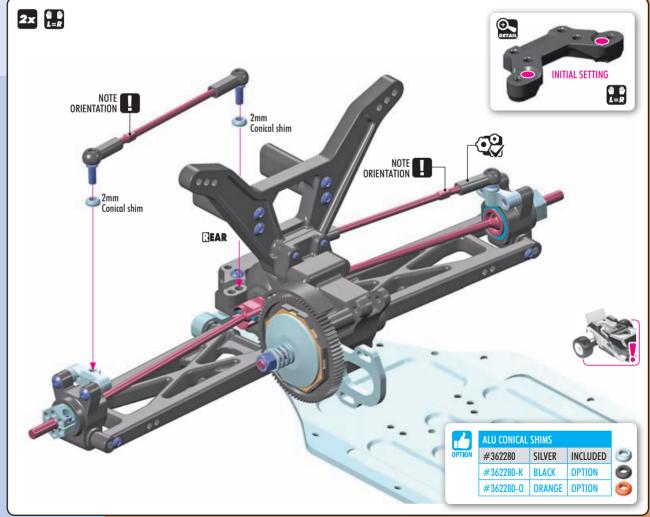




2x 962031 S 3x6x0.1



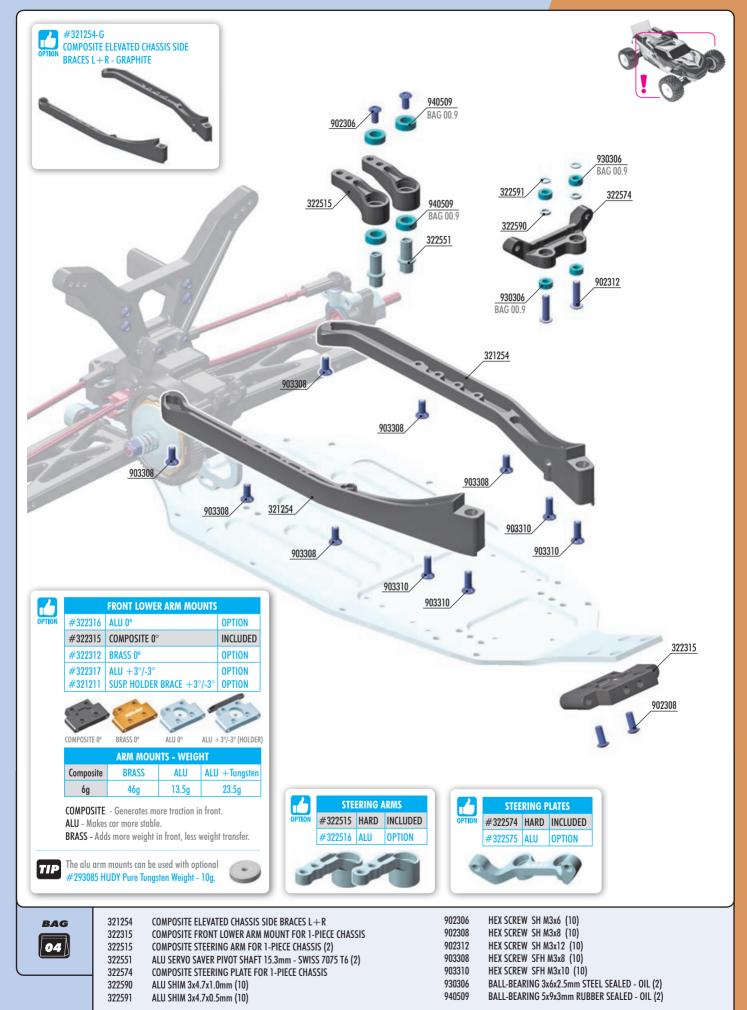




4. FRONT ASSEMBLY





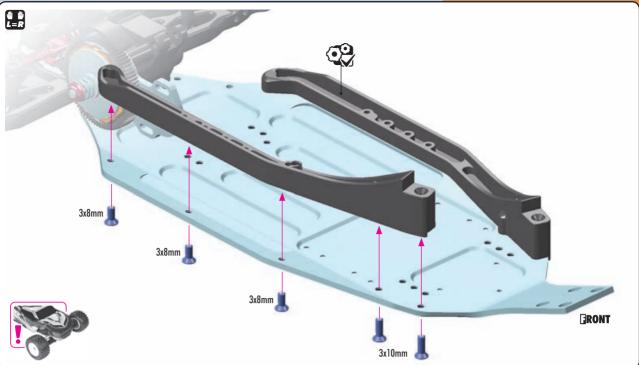


4. FRONT ASSEMBLY

CARPET DIRT

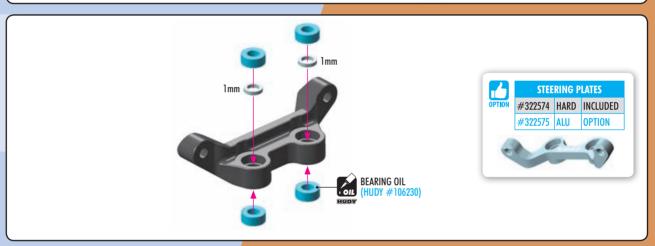






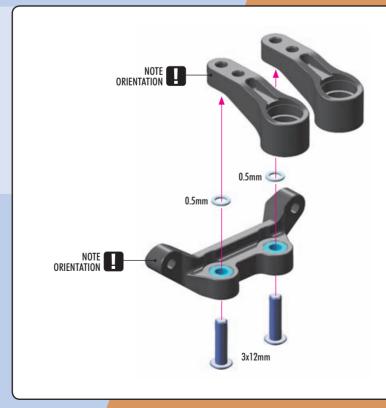








2x 902312 SH M3x12







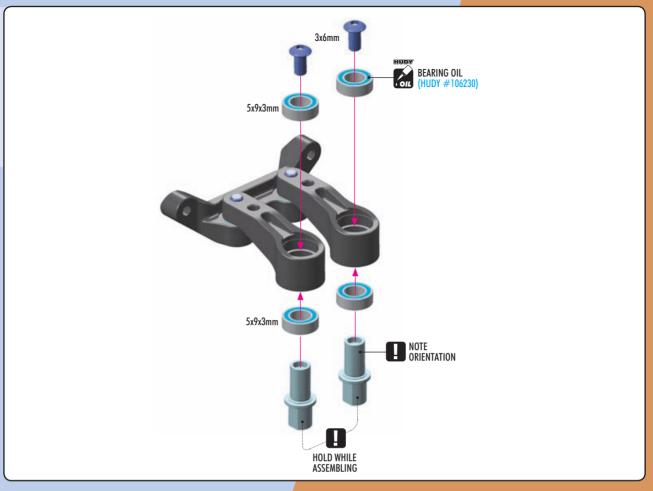
4. FRONT ASSEMBLY



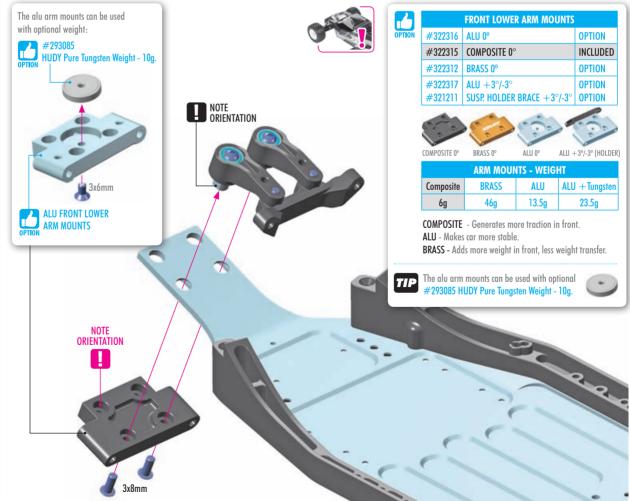






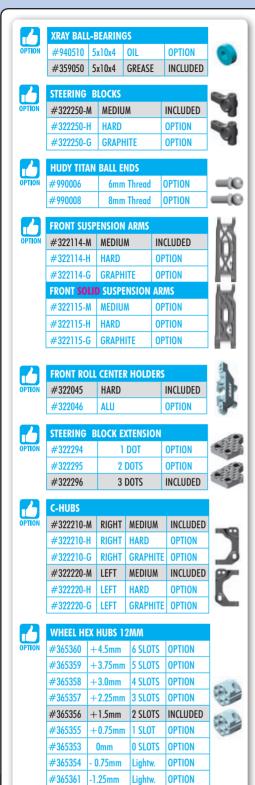


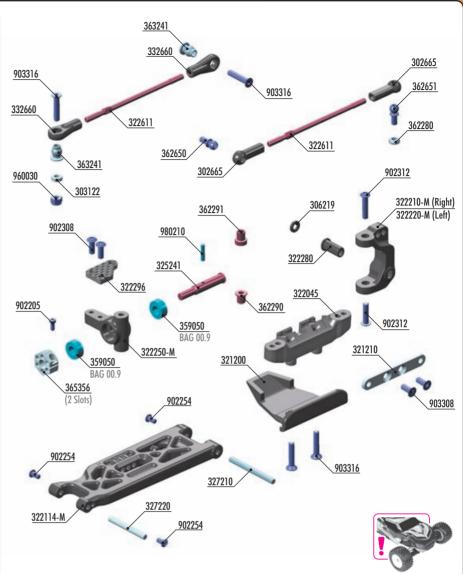




5. FRONT SUSPENSION GARPET DIRT











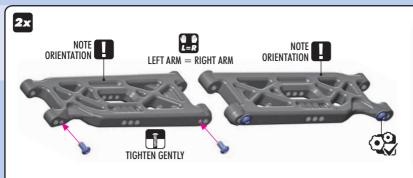
302665	COMPOSITE BALL JOINT 4.9mm - CLOSED WITH HOLE (4)	362280	ALU CONICAL SHIM 3x6x2.0mm (10)
303122	ALU SHIM 3x6x1.0mm (10)	362290	STEEL STEERING BUSHING - SHORT (2)
306219	COMPOSITE SET OF SERVO SHIMS (4)	362291	STEEL STEERING BUSHING - LONG (2)
321200	COMPOSITE FRONT BUMPER	362650	BALL END 4.9mm WITH THREAD 6mm (2)
321210	ALU SUSPENSION HOLDER BRACE - SWISS 7075 T6 (3mm)	362651	BALL END 4.9mm WITH THREAD 8mm (2)
322045	COMPOSITE FRONT ROLL-CENTER HOLDER FOR BRIDGE UPPER DECK	363241	BALL UNIVERSAL 5.75mm WITH BACKSTOP (2)
322114-M	COMPOSITE SUSPENSION ARM FRONT LOWER - MEDIUM	365356	ALU WHEEL HUB 12mm - OFFSET "+1.50mm" (2)
322210-M	COMPOSITE C-HUB 0° DEG. RIGHT - MEDIUM	359050	BALL-BEARING 5x10x4 STEEL SEALED - GREASE (2)
322220-M	COMPOSITE C-HUB 0° DEG. LEFT - MEDIUM		
322250-M	COMPOSITE STEERING BLOCK - MEDIUM	902205	HEX SCREW SH M2x5 (10)
322280	COMPOSITE CASTER ECCENTRIC BUSHING $(2+2+2)$	902254	HEX SCREW SH M2.5x4 (10)
322296	GRAPHITE EXTENSION FOR STEERING BLOCK - 3 DOTS (2)	902308	HEX SCREW SH M3x8 (10)
322611	ADJUSTABLE TURNBUCKLE 70mm M3 L/R - HUDY SPRING STEEL™ (2)	902312	HEX SCREW SH M3x12 (10)
325241	XT2 FRONT DRIVE AXLE - HUDY SPRING STEEL™	903308	HEX SCREW SFH M3x8 (10)
327210	FRONT SUSPENSION PIVOT PIN (2)	903316	HEX SCREW SFH M3x16 (10)
327220	FRONT ARM PIVOT PIN (2)	960030	NUT M3 (10)
332660	COMPOSITE STEERING & SERVO BALL JOINT 5.8mm (4+2)	980210	PIN 2x9.8 (10)

5. FRONT SUSPENSION GARPET DIRT



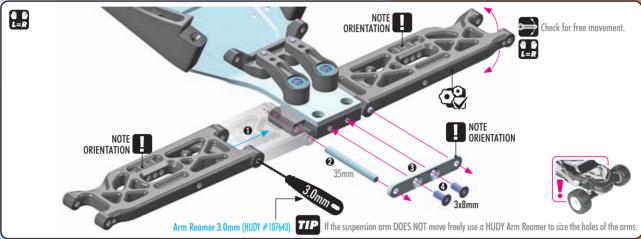




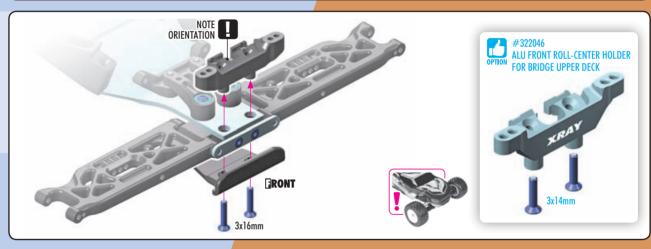


41	FRONT SUSPENSION ARMS			k
ON	#322114-M	MEDIUM	INCLUDED	16
	#322114-H	HARD	OPTION	B
	#322114-G	GRAPHITE	OPTION	15
	FRONT SOLID SUSPENSION ARMS			lo
	#322115-M	MEDIUM	OPTION	Įķ.
	#322115-H	HARD	OPTION	II.
	#322115-G	GRAPHITE	OPTION	

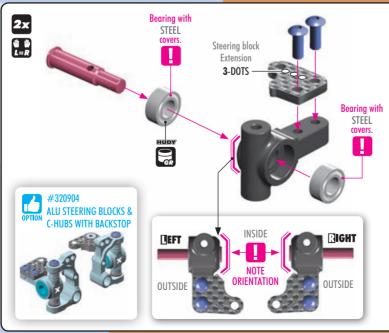


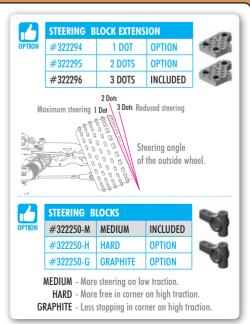










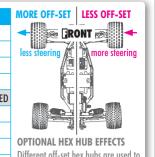


5. FRONT SUSPENSION CARPET DIRT



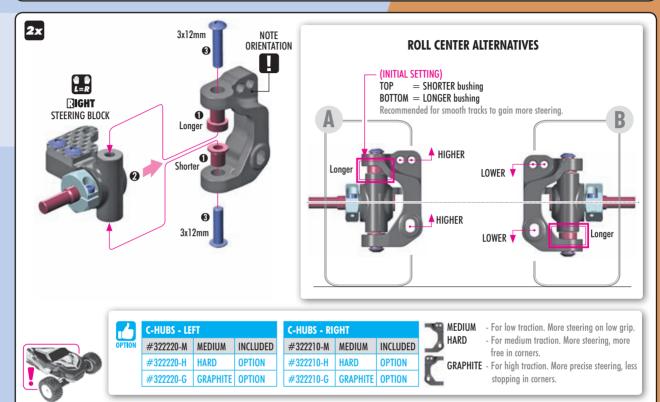


7 3	WHEEL HEX HUBS 12MM			
OPTION	#365360	+4.5mm	6 SLOTS	OPTION
	#365359	+3.75mm	5 SLOTS	OPTION
-	#365358	+3.0mm	4 SLOTS	OPTION
	#365357	+2.25mm	3 SLOTS	OPTION
0.0	#365356	+1.5mm	2 SLOTS	INCLUDED
	#365355	+0.75mm	1 SLOT	OPTION
	#365353	0mm	O SLOTS	OPTION
	#365353 #365354	0mm - 0.75mm	0 SLOTS Lightw.	OPTION OPTION

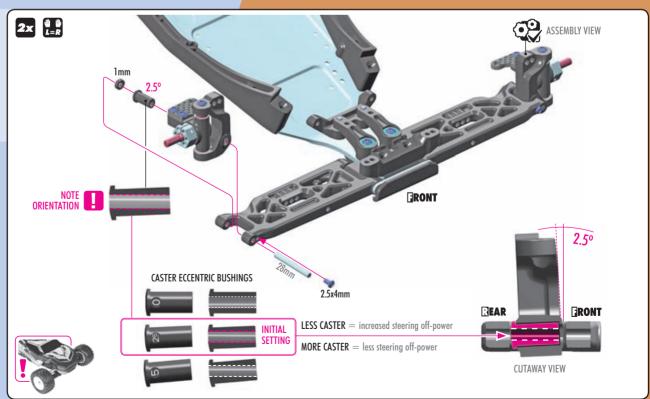








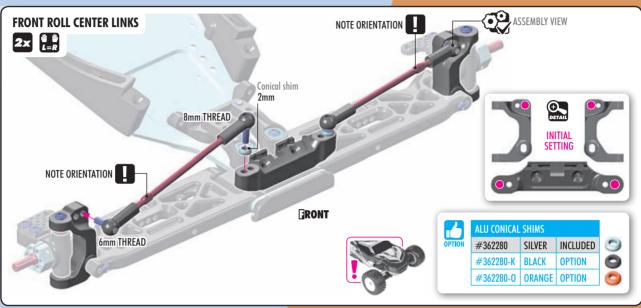


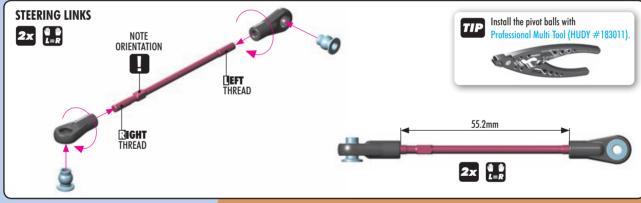


5. FRONT SUSPENSION CARPET DIRT

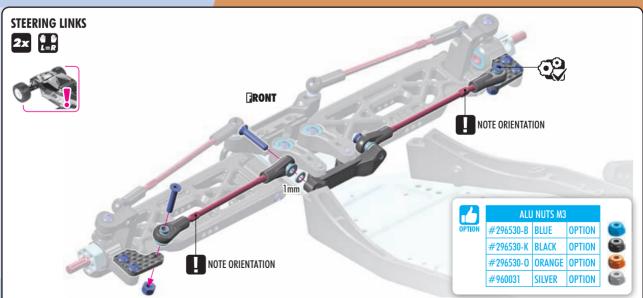






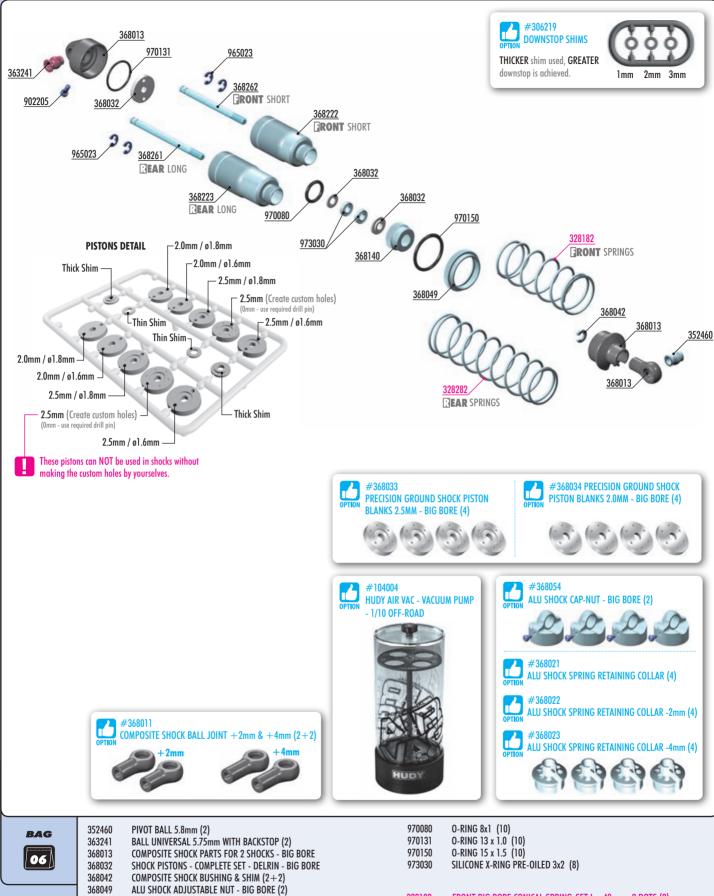






6. SHOCK ABSORBERS GARPET





368241 BALL UNIVERSAL 5.75mm WITH BACKSTOP (2)
368013 COMPOSITE SHOCK PARTS FOR 2 SHOCKS - BIG BORI
368032 SHOCK PISTONS - COMPLETE SET - DELRIN - BIG BOI
368042 COMPOSITE SHOCK BUSHING & SHIM (2+2)
368049 ALU SHOCK ADJUSTABLE NUT - BIG BORE (2)
368140 ALU LOWER SHOCK BODY CAP (2)
368201 REAR SHOCK ABSORBERS - BIG BORE - SET (2)
368222 ALU SHOCK BODY - BIG BORE (2)
368222 ALU SHOCK BODY - BIG BORE (2)
36823 XT2/XT4 ALU REAR SHOCK BODY - BIG BORE (2)
368261 XT2/XT4 REAR HARDENED SHOCK SHAFT 56mm (2)
368262 REAR HARDENED SHOCK SHAFT 47mm (2)
902205 HEX SCREW SH M2x5 (10)
965023 E-CLIP 2.3 (10)

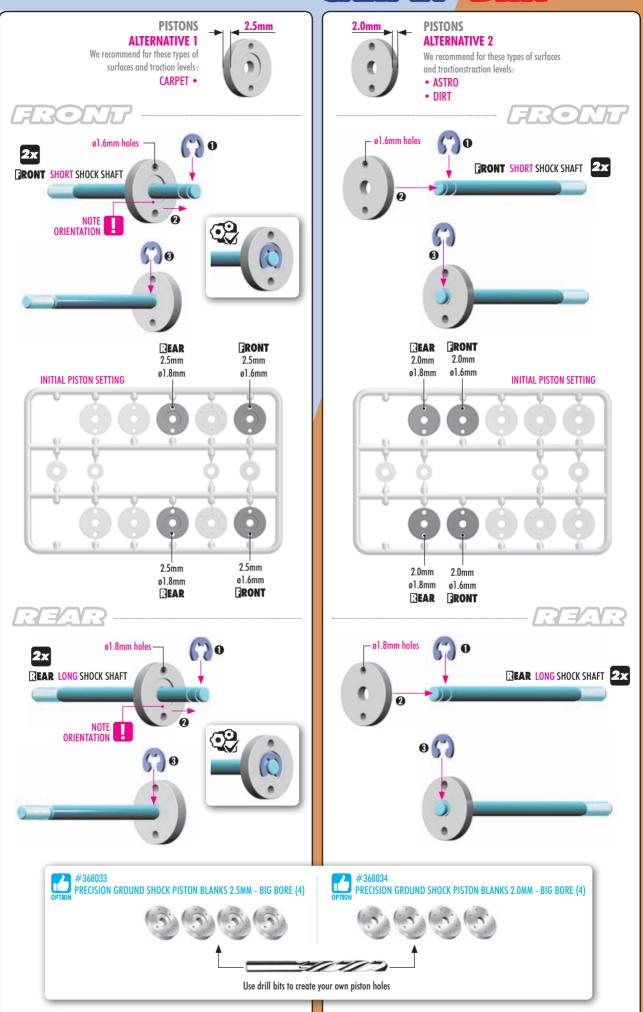
328182 FRONT BIG BORE CONICAL SPRING-SET L=49mm - 2 DOTS (2) 328282 REAR BIG BORE CONICAL SPRING-SET L=67mm - 2 DOTS (2)

6. SHOCK ABSORBERS

CARPET DIRT



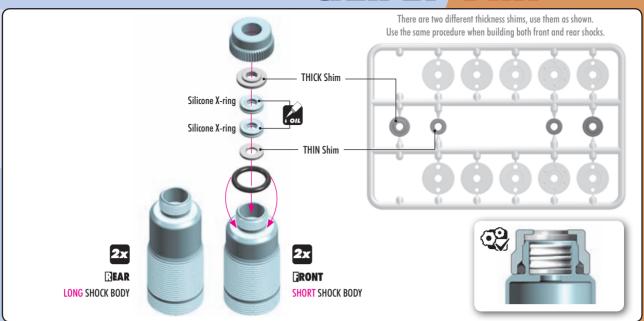
SET-UP BOOK SHOCK DAMPING SHOCK PISTONS

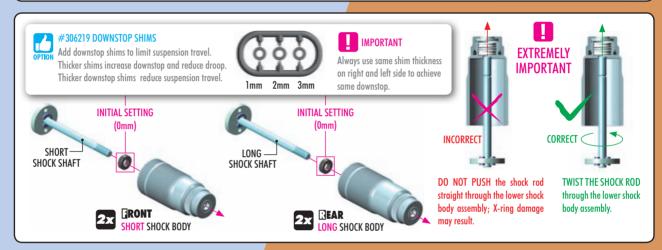


6. SHOCK ABSORBERS CARPET DIRT





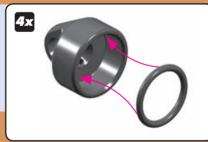


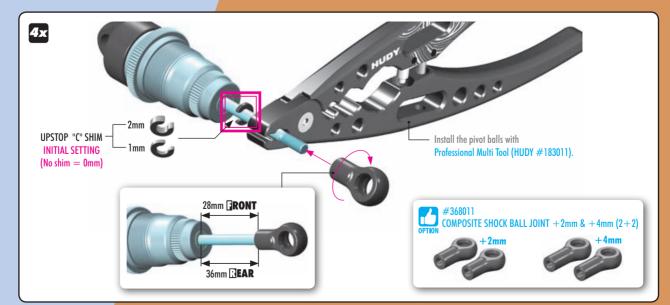












6. SHOCK ABSORBERS

CARPET DIRE



Follow the steps below to set the shock rebound to the default setting of 0%.







DEFAULT SHOCK REBOUND SETTING 0% REBOUND



Extend the shock shaft completely. Fill the shock body with the shock oil. For the FRONT shocks (short) use 400cSt oil. For the REAR shocks (long) use 300cSt oil.



Move the shock shaft up and down a few times to release the air bubbles trapped beneath the niston



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 onto the filled shock body and start to tighten the cup. Tighten the cap fully.



Gently push the shock shaft completely into the shock body. Excess oil will flow through the hole in the shock cap.



Keep the shock shaft pushed in the shock body and insert the screw into the shock cap. Tighten gently.



6x push the shaft up and down.



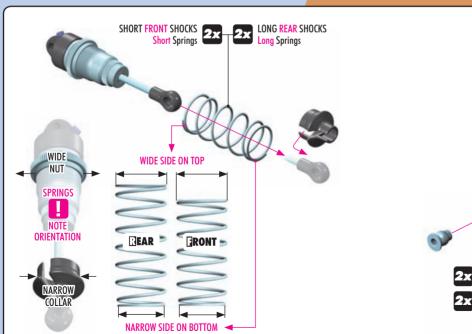
Untighten the screw.

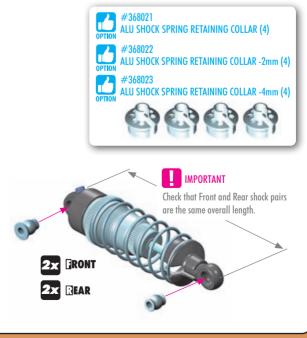
Gently push the shock shaft completely into the shock body. Excess oil will flow through the hole in the shock cap.



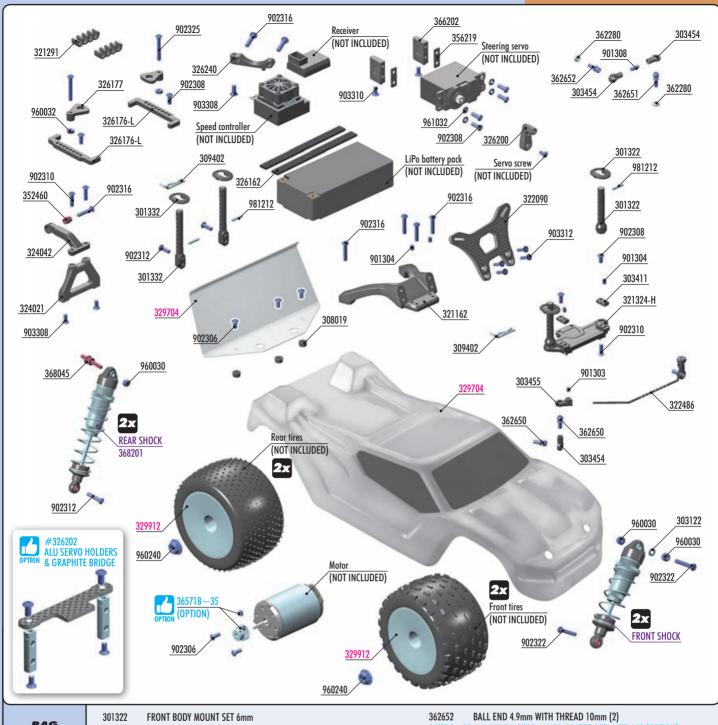
Tighten the screw. The rebound will be at approx. 0%







CARPET DIRT

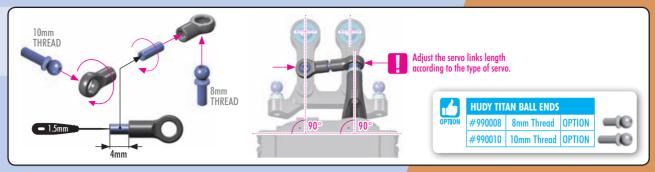


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301322	FRONT BODY MOUNT SET 6mm	362652	BALL END 4.9mm WITH THREAD 10mm (2)
301332	REAR BODY MOUNT SET 6mm		5 ALU PINION GEAR - HARD COATED 18T~35T / 48 (OPTION)
303122	ALU SHIM 3x6x1.0mm (10)	366202	COMPOSITE SERVO MOUNT - HIGHER
303411	COMPOSITE ANTI-ROLL BÁR HOLDERS	368045	STEEL SCREW SHOCK PIVOT BALL WITH HEX (2)
303454	BALL JOINT 4.9mm - OPEN (4)	901303	HEX SCREW SB M3x3 (10)
303455	COMPOSITE ANTI-ROLL BAR BALL JOINT 4.9mm (4)	901304	HEX SCREW SB M3x4 (10)
308019	COMPOSITE SET OF SHOCKS SHIMS & NUTS (2)	901308	HEX SCREW SB M3x8 (10)
309402	BODY CLIP FOR 6mm BODY POST (4)	902306	HEX SCREW SH M3x6 (10)
321162	COMPOSITE FRONT BRIDGE UPPER DECK	902308	HEX SCREW SH M3x8 (10)
321291	COMPOSITE 5-WIRES HOLDER - SET	902310	HEX SCREW SH M3x10 (10)
321324-H	XT2 COMPOSITE FRONT BODY MOUNT FOR 1-PIECE CHASSIS	902312	HEX SCREW SH M3x12 (10)
322090	XT2 GRAPHITE SHOCK TOWER FOR 1-PIECE CHASSIS - FRONT	902316	HEX SCREW SH M3x16 (10)
322486	XT2 FRONT ANTI-ROLL BAR 1.6mm	902322	HEX SCREW SH M3x22 (10)
324021	COMPOSITE MOUNT FOR UPPER BRACE - LCG	902325	HEX SCREW SH M3x25 (10)
324042	COMPOSITE MOTOR UPPER BRACE - LCG	903308	HEX SCREW SFH M3x8 (10)
326162	SELF-ADHESIVE RUBBER 1.5x6.5x155mm (2)	903310	HEX SCREW SFH M3x10 (10)
326176-L	COMPOSITE LIPO BATTERY HOLDER - LONG (2+2)	903312	HEX SCREW SFH M3x12 (10)
326177	COMPOSITE BATTERY CLAMP (2)	960030	NUT M3 (10)
326200	COMPOSITE STEERING SERVO ARMS - EXTENDED - 23T + 25T	960032	NUT M3 (10)
326240	COMPOSITE FAN HOLDER	960240	NUT M4 WITH SERRATED FLANGE (10)
352460	PIVOT BALL 5.8 (10)	961032	WASHER S 3.2 (10)
356219	COMPOSITE SERVO SHIMS 1.0, 1.5 & 2.5mm (2+2+2)	981212	PIN 2x12 (10)
362280	ALU CONICAL SHIM 3x6x2.0mm (10)	368201	REAR SHOCK ABSORBERS - BIG BORE - SET (2)
362650	BALL END 4.9mm WITH THREAD 6mm (2)	329704	XRAY XT2 BODY - FRONT/REARWARD SHOCK POSITION
362651	BALL END 4.9mm WITH THREAD 8mm (2)	329912	STADIUM TRUCK WHEEL WITH 12mm HEX - WHITE (2)

CARPET DIRT

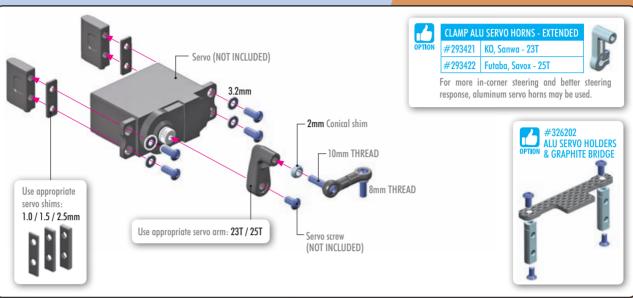








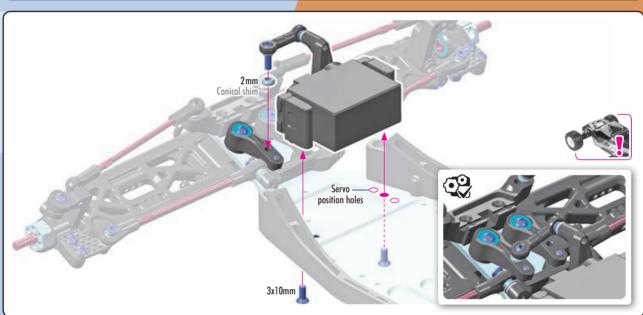


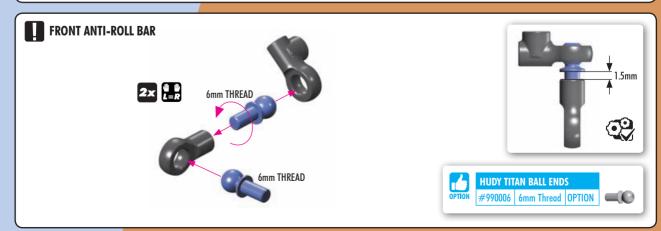






2x 903310 SFH M3x10

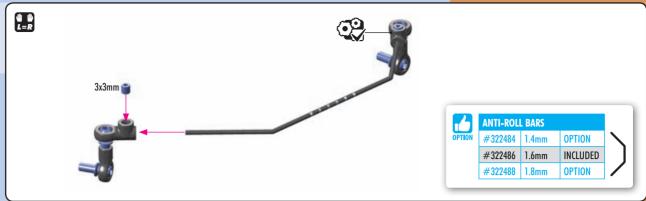




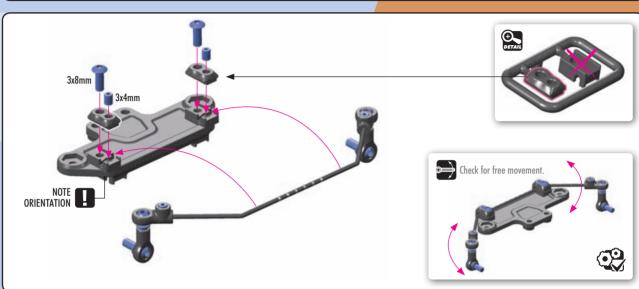
CARPET DIRT



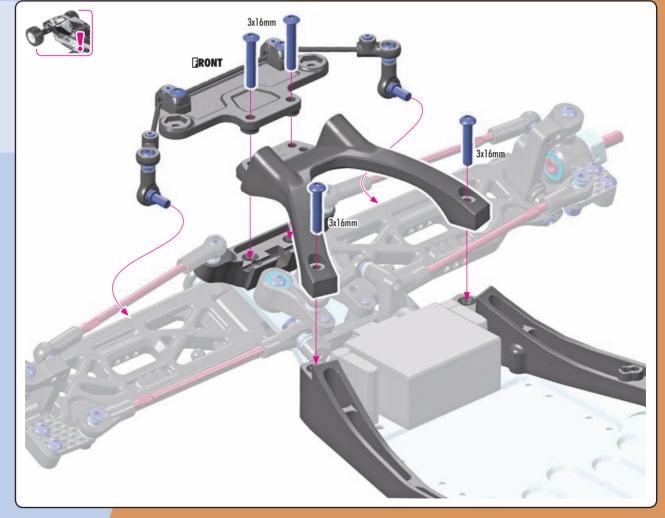






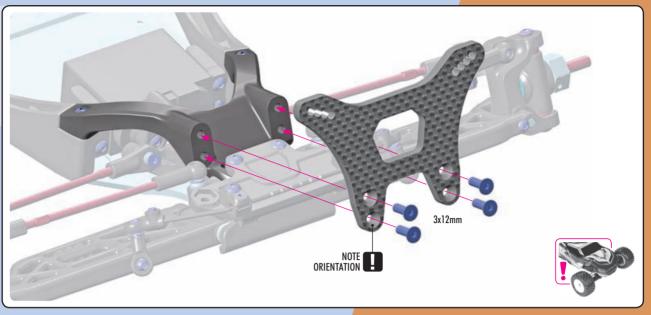




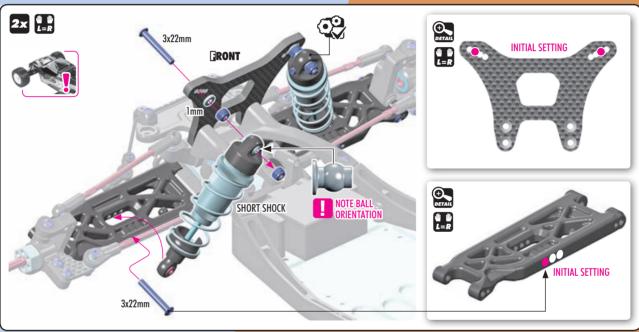


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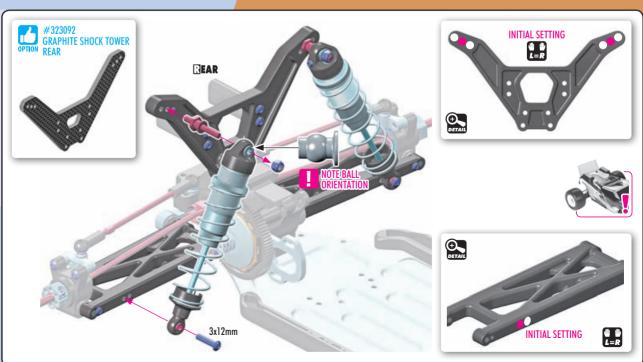




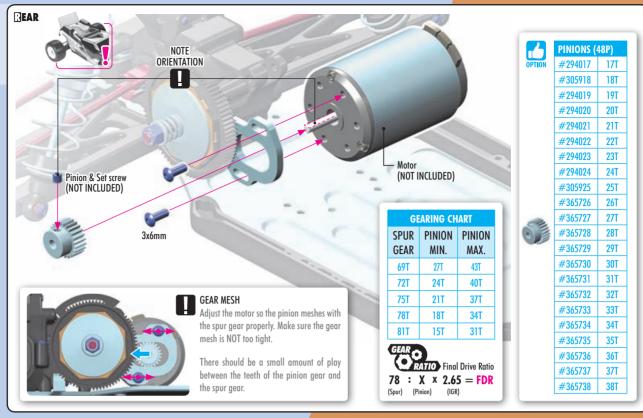


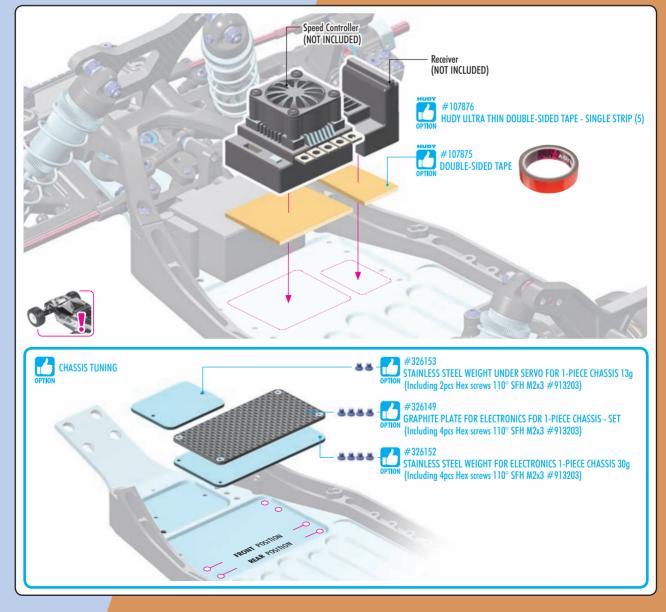








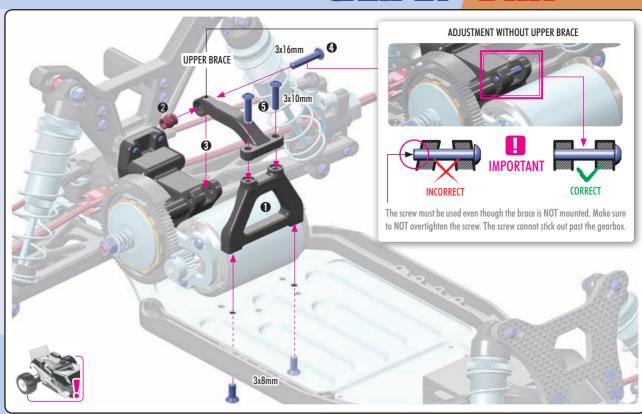


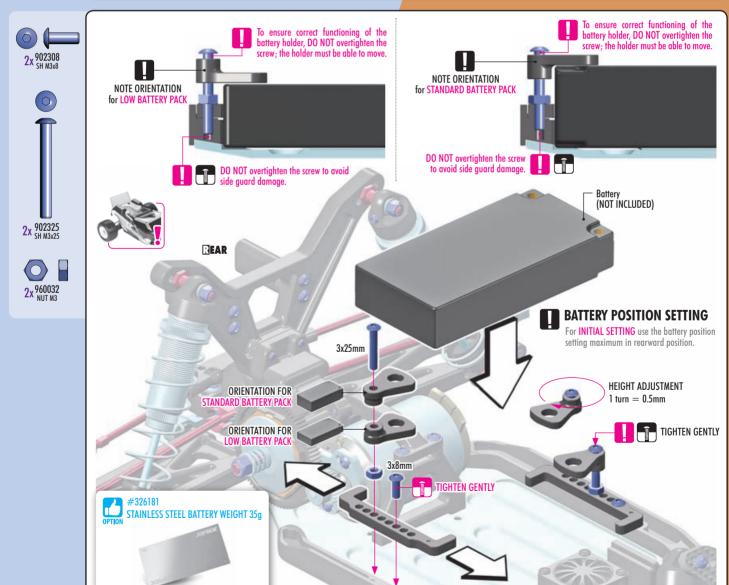


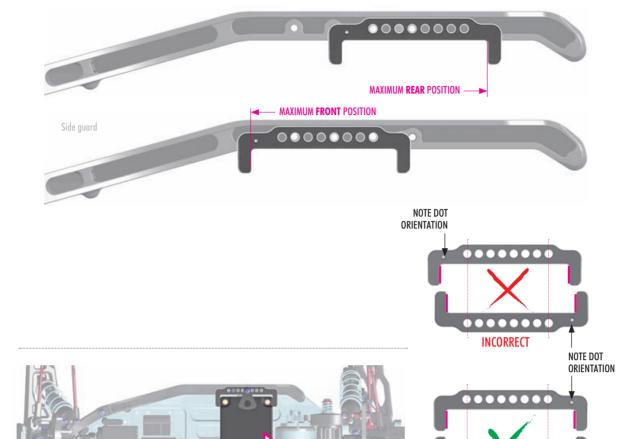
7. FINAL ASSEMBLY

CARPET DIRT

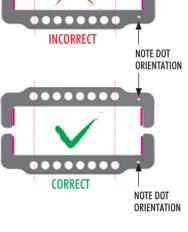


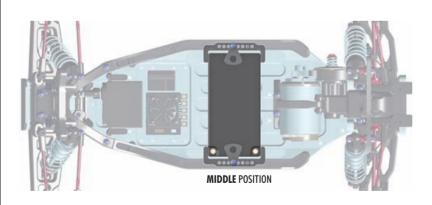


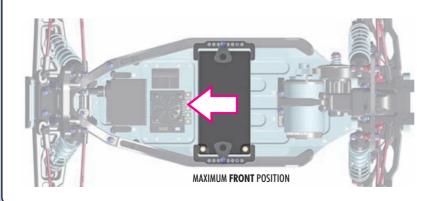










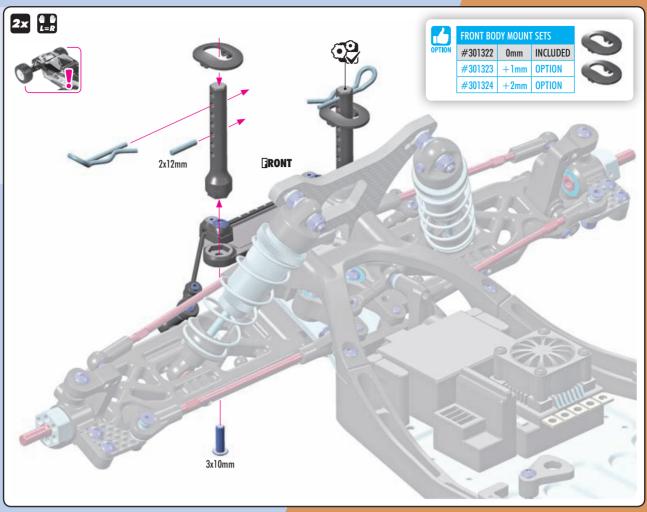


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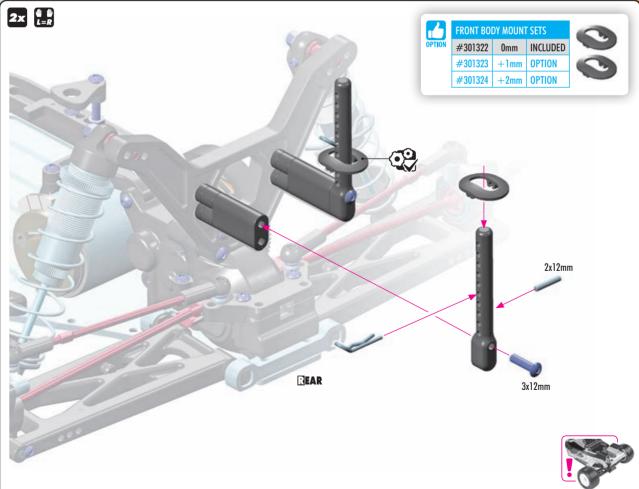
7. FINAL ASSEMBLY GARPET DIRT











7. FINAL ASSEMBLY

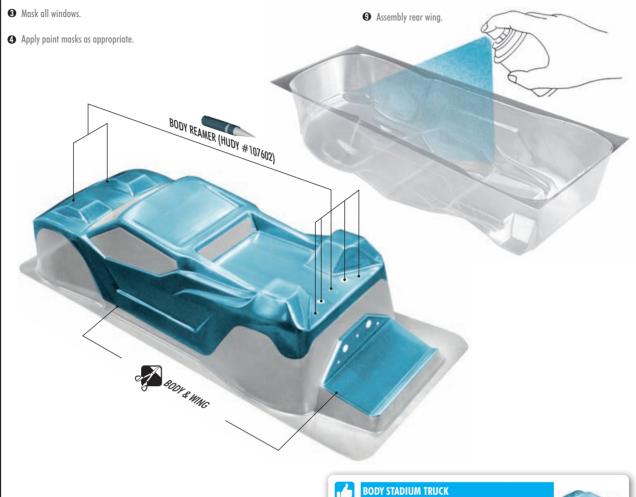
CARPET DIRT

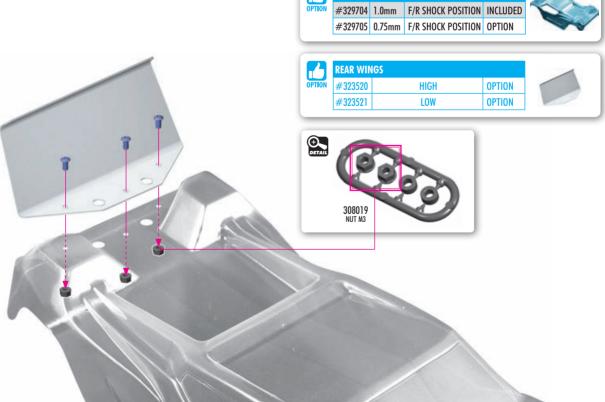


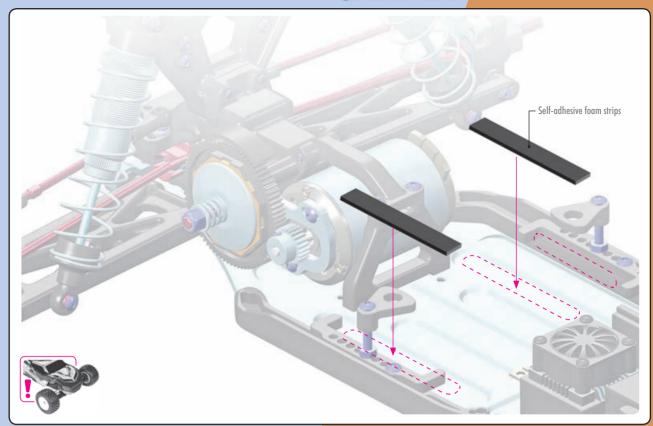
3x 902306 SH M3x6



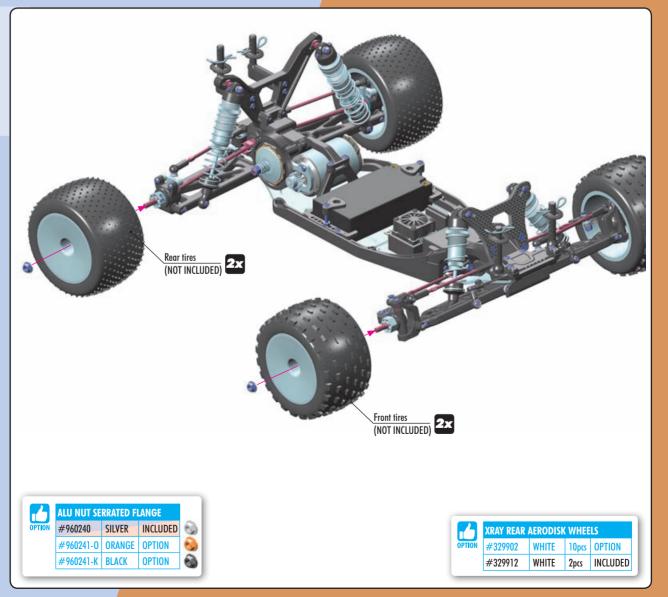
- Before cutting and making holes on the BODY, put the unpainted body on the chassis to confirm the mounting position and location for holes and cutouts. Before cutting and making holes on the WING, put the unpainted wing on the wing holders to confirm the mounting position and location for holes and cutouts.
- Before painting, wash the inside of the body with mild detergent, and then rinse and dry thoroughly.
- Paint the body using paints formulated for polycarbonate bodies.
- (6) When the paint is dry, remove the masking.
- Carefully cut out the body using appropriate scissors or cutting tools.
- 3 When you have finished cutting, peel off the external protective films.





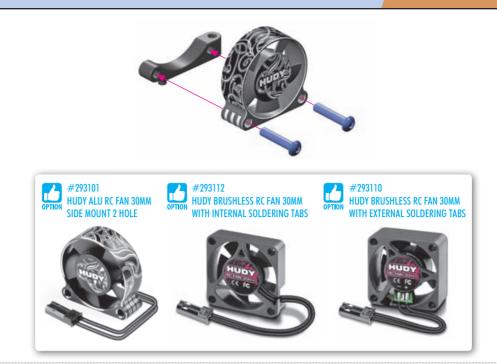


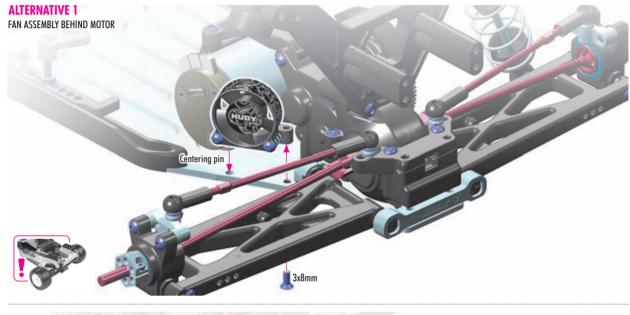


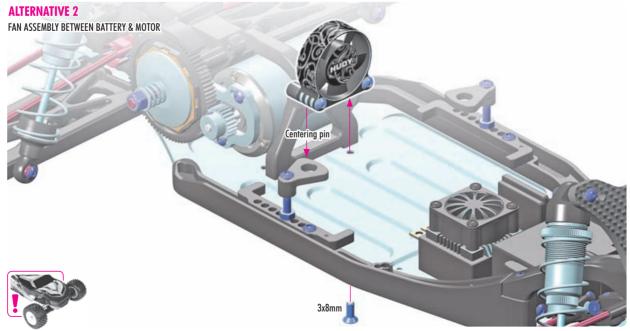












SHOCK MAINTENANCE

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 ball-bearings are degreased and are lubricated with HUDY Bearing Oil or HUDY Grease. 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.

- 1 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.
- 1 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 correct oil or grease to lubricate the bearings:

- #106230 HUDY Bearing Oil
- #106220~HUDY Bearing Grease Standard
- #106221 HUDY Bearing Grease Blue
- #106222 HUDY Bearing Grease Red



HUDY #10623



HUDY #106220



HUDY #106221



HUDY #106222

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 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 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.



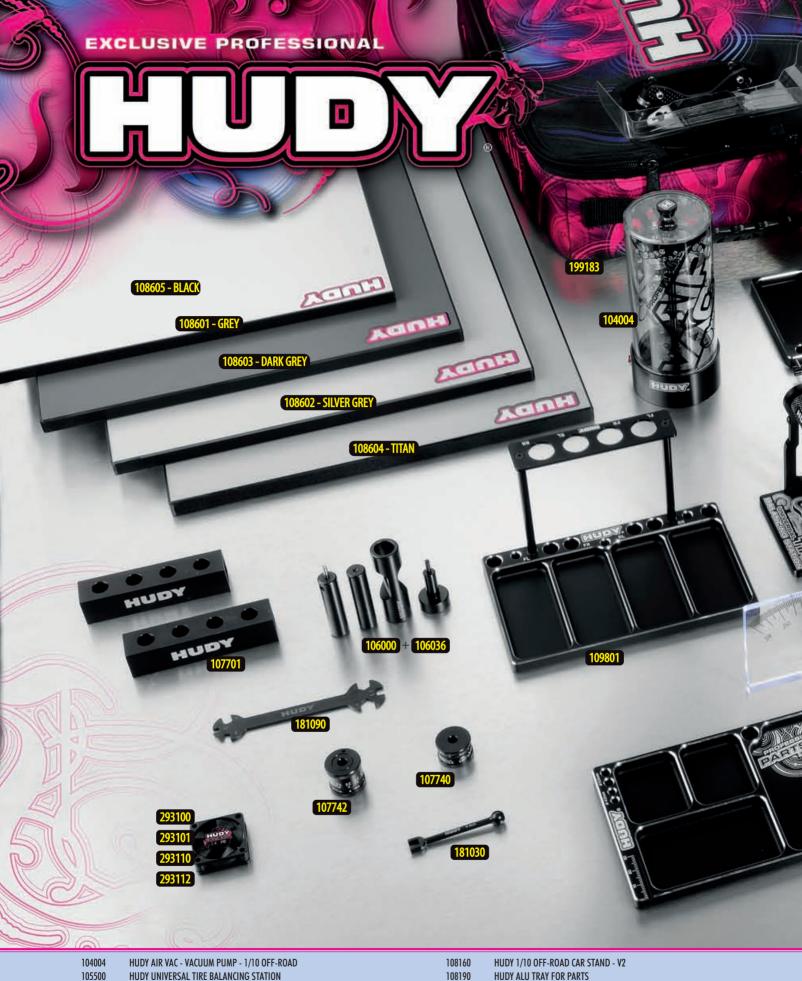


#106210 HUDY GRAPHITE GREASE or #106213 HUDY JOINT GREASE

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 fade (get lighter) 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.

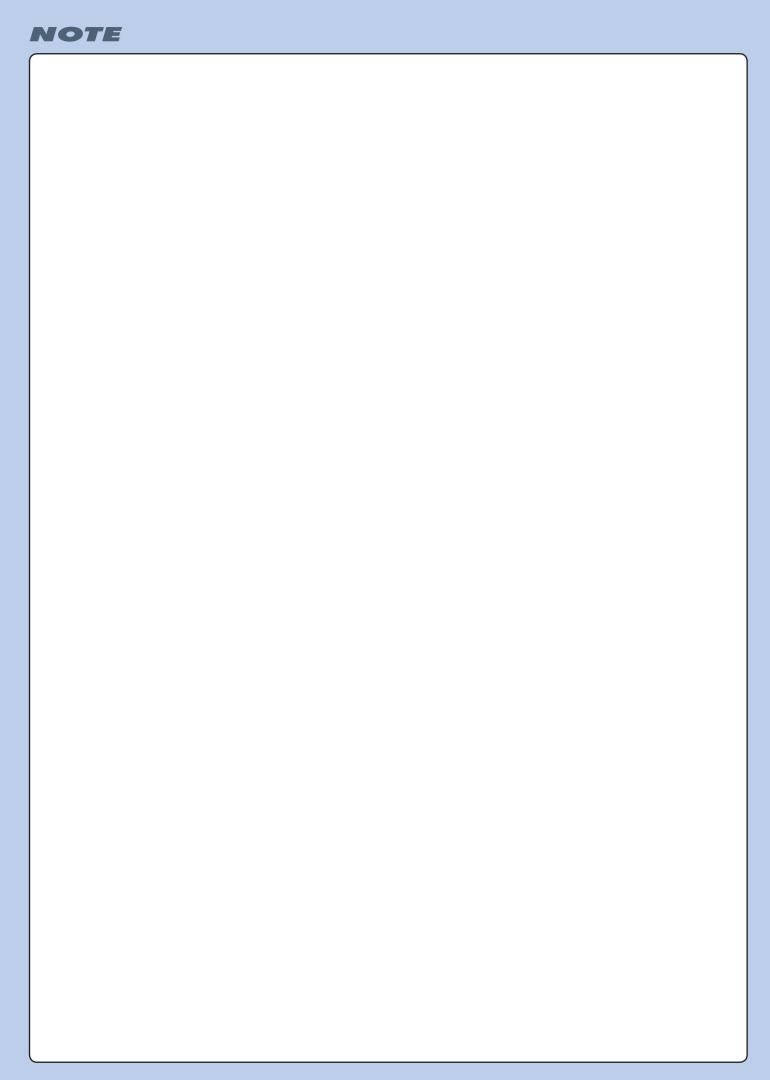


	104004	HUDY AIR VAC - VACUUM PUMP - 1/10 OFF-ROAD	108160	HUDY 1/10 OFF-ROAD CAR STAND - V2
	105500	HUDY UNIVERSAL TIRE BALANCING STATION	108190	HUDY ALU TRAY FOR PARTS
	105520	WHEEL ADAPTER FOR 1/10 TOURING CARS - 12MM	108601	FLAT SET-UP BOARD FOR 1/10 OFF-ROAD - LIGHTWEIGHT - GREY
	106000	HUDY DRIVE PIN REPLACEMENT TOOL (FOR 3MM PINS)	108602	FLAT SET-UP BOARD FOR 1/10 OFF-ROAD - LIGHTWEIGHT - SILVER GREY
	106036	EJECTOR PIVOT PIN & ALTERNATING PIVOT 2.5MM FOR #106000	108603	FLAT SET-UP BOARD FOR 1/10 OFF-ROAD - LIGHTWEIGHT - DARK GREY
	107090	HUDY BEARING CHECKING TOOL	108604	FLAT SET-UP BOARD FOR 1/10 OFF-ROAD - LIGHTWEIGHT - TITAN
	107601	LIMITED EDITION - REAMER FOR BODY 0-9MM $+$ COVER - SMALL	108605	FLAT SET-UP BOARD FOR 1/10 OFF-ROAD - LIGHTWEIGHT - BLACK
	107701	CHASSIS DROOP GAUGE SUPPORT BLOCKS 20MM FOR 1/8 - LW(2)	108901	HUDY SET-UP STATION FOR 1/10 OFF-ROAD CARS (WITH #108840)
	107740	HUDY ADJUSTABLE RIDE HEIGHT GAUGE 14-20MM	108960	ALU NUT FOR 1/10 OFF-ROAD SET-UP SYSTEM (4)
	107742	HUDY ADJUSTABLE RIDE HEIGHT GAUGE 20-30MM	109801	HUDY ALU TRAY FOR 1/10 OFF-ROAD DIFF & SHOCKS
1	107855	HUDY PIT LED	109840	HUDY ALU TRAY FOR 1/10 OFF-ROAD DIFF ASSEMBLY
	107880	CHASSIS BALANCING TOOL (2)	109860	HUDY ALU TRAY FOR SET-UP SYSTEM



109880	HUDY ALU TRAY FOR ACCESSORIES & PIT LED	188990	HUDY PROFESSIONAL BODY SCISSORS
111545	LIMITED EDITION - ALLEN WRENCH # 1.5MM	199060	HUDY ALU TOOL STAND
112045	LIMITED EDITION - ALLEN WRENCH # 2.0MM	199183	HUDY CAR BAG - 1/10 OFF-ROAD
132045	LIMITED EDITION - ALLEN WRENCH + BALL REPL. TIP # 2.0MM	199270	HUDY LIPO SAFETY BAG
153055	LIMITED EDITION - SLOTTED SCREWDRIVER # 3.0MM - LONG	293100	HUDY ALU RC FAN 30MM - BOTTOM MOUNT 2 HOLE
175535	LIMITED EDITION - SOCKET DRIVER # 5.5MM	293101	HUDY ALU RC FAN 30MM - SIDE MOUNT 2 HOLE
177035	LIMITED EDITION - SOCKET DRIVER # 7.0MM	293110	HUDY BRUSHLESS RC FAN 30MM - WITH EXTERNAL SOLDERING TABS
181030	HUDY SPRING STEEL TURNBUCKLE WRENCH 3MM	293112	HUDY BRUSHLESS RC FAN 30MM - WITH INTERNAL SOLDERING TABS
181090	HUDY SPECIAL TOOL FOR TURNBUCKLES & NUTS	298100	HUDY TIN ROUND BOX 80X30MM
183011	HUDY PROFESSIONAL MULTI TOOL		





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