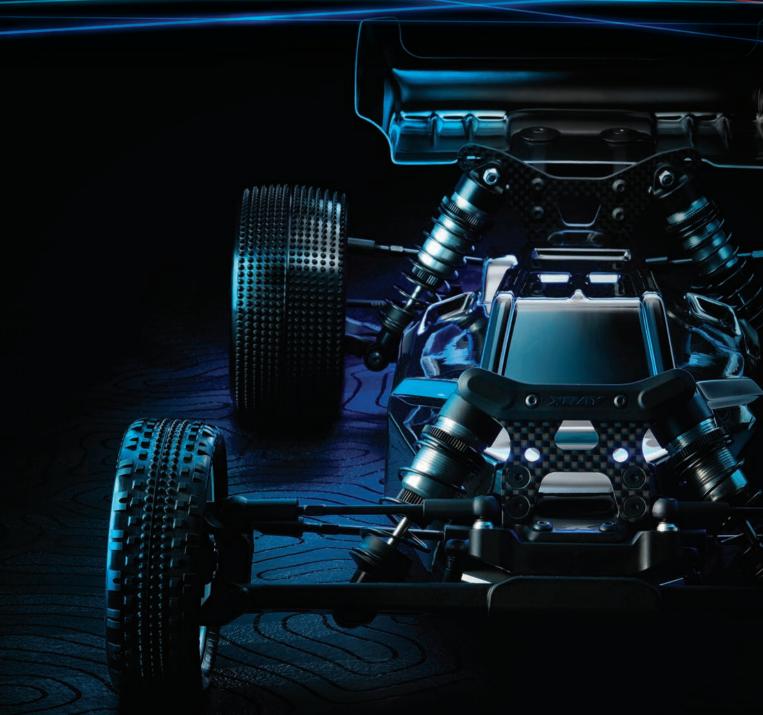
1/10 ELECTRIC OFF-ROAD BUGGY 2WD

1 - 7 - 1 - 5 - 2



INSTRUCTION MANUAL

FOR XB2C'26 & XB2D'26 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.

CUSTOMER SUPPORT

We have made every effort to make these instructions as easy to understand as possible. However, if you have any difficulties, problems, or questions, please DO NOT hesitate to contact the XRAY support team at info@ teamxray.com. Also, please visit our Web site at www.teamxray.com to find the latest updates, set-up information, option parts, and many other goodies. We pride ourselves on taking excellent care of our customers.

You can join thousands of XRAY fans and enthusiasts in our online community at: www.teamxray.com

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.

XRAY Europe

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

Fax: 421-32-7401109

E-mail: info@teamxray.com

XRAY USA

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

Phone: (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.

A

IMPORTANT NOTES — ELECTRICAL

- Insulate any exposed electrical wiring (using heat shrink tubing or electrical tape) to prevent
 dangerous short circuits. Take maximum care in wiring, connecting and insulating cables.
 Make sure cables are always connected securely. Check connectors for if they become loose.
 And if so, reconnect them securely. Never use 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 short-circuit or overcharging leading to a serious accident. Therefore
 DO NOT modify the charger.
- Always unplug charger when recharging is finished.
- DO NOT recharge battery while battery is still warm. After use, battery retains heat. Wait until
 it cools down before charging.
- DO NOT allow any metal part to short circuit the receiver batteries or other electrical/ electronic device on the model.
- Immediately stop running if your RC model gets wet as may cause short circuit.
- · Please dispose of batteries responsibly. Never put batteries into fire.

R/C & BUILDING TIPS

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

• Ask your local hobby shop for any advice.

Please support your local hobby shop. We at XRAY Model Racing Cars support all local hobby dealers. Therefore we ask you, if at all possible, to purchase XRAY products at your hobby dealer and give them your support like we do.

If you have difficulty finding XRAY products, please check out www.teamxray.com to get advice, or contact us via email at info@teamxray.com, or contact the XRAY distributor in your country.

WARRANTY

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

Due to the high performance level of this model car you will need to periodically maintain and replace consumable components. Any and all warranty coverage will NOT cover replacement of any part or component damaged by neglect, abuse, or improper or unreasonable use. This includes but is NOT limited to damage from crashing, chemical and/or water damage, excessive moisture, improper or no maintenance, or user modifications which compromise the

integrity of components. Warranty will NOT cover components that are considered consumable on RC vehicles. XRAY DOES NOT pay nor refund shipping on any component sent to XRAY or its distributors for warranty. XRAY reserves the right to make the final determination of the warranty status of any component or part.

LIMITATIONS OF LIABILITY.

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

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

Disregard of the any of the above cautions may lead to accidents, personal injury, or property damage.

XRAY MODEL RACING CARS assumes no responsibility for any injury, damage, or misuse of this product during assembly or operation, nor any addictions that may arise from the use of this product.

All rights reserved.

QUALITY CERTIFICATE

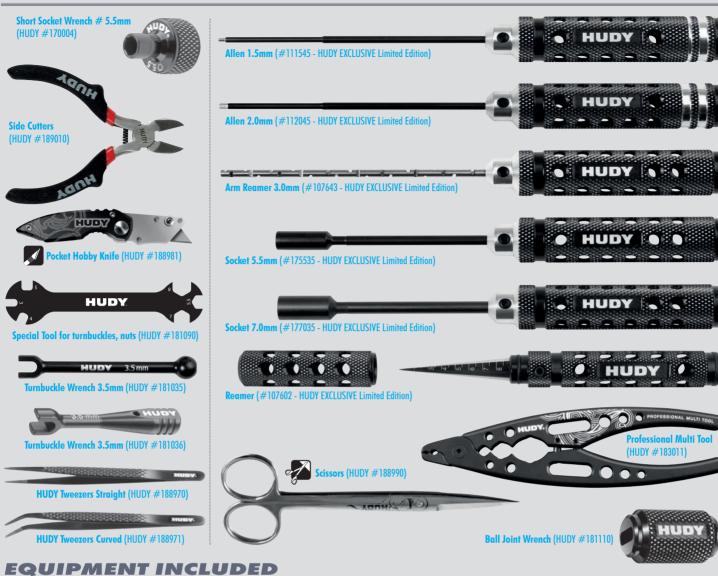
XRAY MODEL RACING CARS uses only the highest quality materials, the best compounds for molded parts and the most sophisticated manufacturing processes of TQM (Total Quality Management). We guarantee that all parts of a newly-purchased kit are manufactured with the highest regard to quality. However,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

competition, we cannot guarantee any parts once you start racing the car. Products which have been worn out, abused, neglected or improperly operated will NOT be covered under warranty. We wish you enjoyment of this high-quality and high-performance RC car and wish you best success on the track!

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

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

TOOLS REQUIRED





EQUIPMENT REQUIRED



NOT INCLUDED



SAMPLE OF OPTIONAL PARTS			
#32XXXX	TYPE1	OPTION 1	
#32XXXX	TYPE2	OPTION 2	
#32XXXX	TYPE	INCLUDED	

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

321100 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 2.5mm dia x 10mm length)

CARBON PARTS PREPARATION

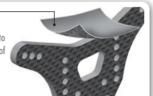
Follow this Tech Tip to prepare the carbon parts. Sand the edges with sandpaper, and then seal the edges with CA glue to reinforce them and help prevent delamination.

Prepare all Carbon Parts:

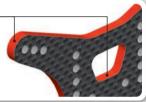
- Front shock tower
- Rear shock tower

Fine sandpaper

Use fine sandpaper to sand smooth the edges of all carbon parts.







MANUAL STEPS ONLY FOR DIRT

T. BALL DIFFERENTIAL DIRY AAO

MANUAL PAGE MARKING MANUAL STEPS ONLY FOR CARPET

	MANOAL SILI S ONLI FOR CARLET			
1. G	EAR DIFFERENTIAL	CARPET		
BAG				

MANUAL DUAL STEPS FOR CARPET AND DIRT

3. REAR DRIVETRAIN	GARPET DIRT



TIP

All ball-bearings are factory pre-oiled or pre-greased. The bearings of each type are packaged separately; there is a BAG 00.9 with pre-greased ball-bearings and a separate bag with pre-oiled ball-bearings.

For pre-oiled ball-bearings, use:

#106230 HUDY Bearing Oil.

For pre-greased ball-bearings with rubber covers, use one of these bearing greases:

#106220 - HUDY Bearing Grease - suggested for extremely dusty track conditions.

#106221 - HUDY Bearing Grease "Blue" - suggested for medium dusty track conditions.
#106222 - HUDY Bearing Grease "Red" - suggested for low dusty track conditions.

Replace any bearings that develop a "gritty" feeling to prevent inefficiency and avoid failures.

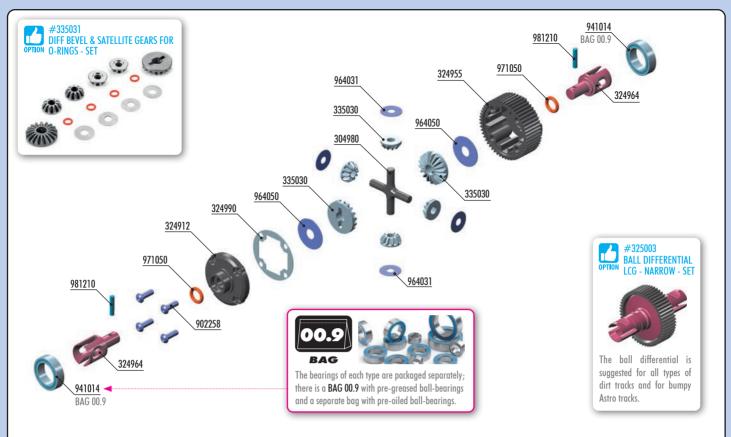
Make sure to use only original XRAY ball-bearings, which all have specific tolerances, axial and radial play, and are all individually selected. Using 3rd party ball-bearings may result in bearing failures and damage





1. GEAR DIFFERENTIAL









ACTION	EFFECT		
OFF-POWER	The Active Diff behaves the same as a standard gear differential. Adjustments are made using different viscosities of silicone oils; thinner oils resulting in more off-power steering with a more agressive feel.		
ON-POWER The main advantage of the Active Diff is felt on-power. The diff action become heavier when throttle is applied, increasing forward drive and stability upon corner exit.			

ACTIVE DIFF SEGMENTS		LOCK ON-POWER		TRACK CONDITIONS	
#325123	60°	OPTION			LOW
#325125	90°	OPTION			MEDIUM
#325127	120°	INCLUDED			HIGH



304980 COMPOSITE GEAR DIFF CROSS PIN 324903-L GEAR DIFFERENTIAL - LCG - NARROW - SET 324912 COMPOSITE GEAR DIFFERENTIAL COVER - LCG - NARROW 324955

COMPOSITE GEAR DIFFERENTIAL CASE WITH PULLEY 53T - LCG - NARROW 324964 GEAR DIFF OUTDRIVE ADAPTER - LCG - FOR NARROW DIFF - HSS™ (2) DIFF GASKET (4)

324990 STEEL DIFF BEVEL & SATELLITE GEARS (2+4) 335030

902258 HEX SCREW SH M2.5x8 (10)

BALL-BEARING 10x15x4 RUBBER SEALED - GREASE (2)

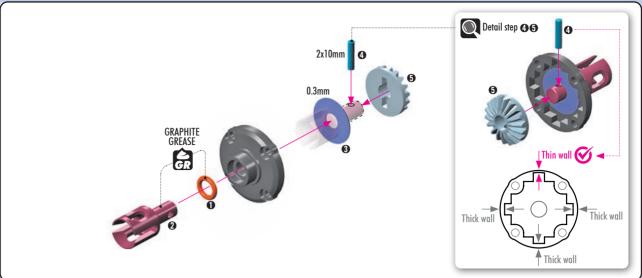
941014 964031 WASHER S 3.5x10x0.2 (10) 964050 WASHER S 5x15x0.3 (10) SILICONE O-RING 5x1.5 (10) 971050

981210 PIN 2x10 (10)

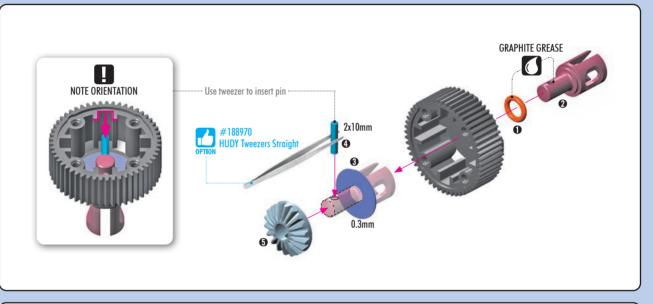
1. GEAR DIFFERENTIAL

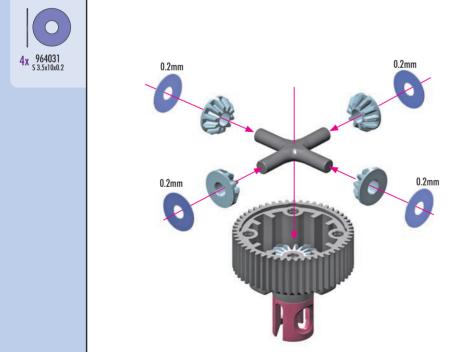


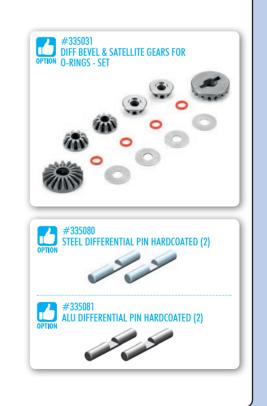








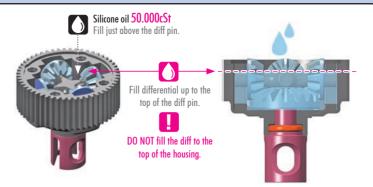






USE PROPER AMOUNT OF OIL IN THE DIFF

Use a digital scale to measure the exact amount of oil in the diff. Remember that during operation the diff gets hotter and the heat may allow the oil to expand. If there is too much oil inside it may interfere with the diff operation and damage the internal gears.



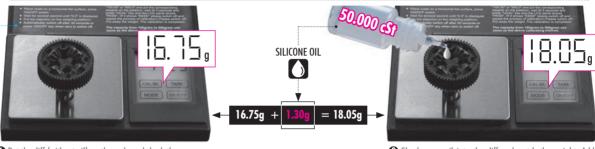


#107865
HUDY Professional Digital Pocket Scale 300g/0.01g



HUDY Professional Digital Pocket Scale 3000g/0.1g

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 16.75g)

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 18.05g.



TIP TIPS FOR GEAR DIFFERENTIAL

LOW-MEDIUM TRACTION 30.000cSt MEDIUM-HIGH TRACTION 50.000cSt HIGH TRACTION 80.000cSt

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



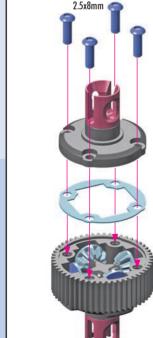


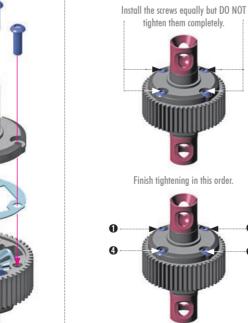
HUDY ULTIMATE SILICONE OILS				
#106510	10.000cSt - 50ml	OPTION		
#106492	11.000cSt - 50ml	OPTION		
#106512	12.000cSt - 50ml	OPTION		
#106515	15.000cSt - 50ml	OPTION		
#106517	17.000cSt - 50ml	OPTION		
#106520	20.000cSt - 50ml	OPTION		
#106530	30.000cSt - 50ml	OPTION		

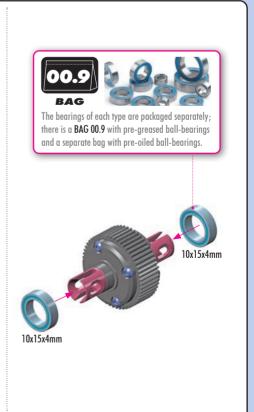
#106540	40.000cSt - 50ml	OPTION
#106550	50.000cSt - 50ml	INCLUDED
#106560	60.000cSt - 50ml	OPTION
#106580	80.000cSt - 50ml	OPTION
#106610	100.000cSt - 50ml	OPTION
#106615	150.000cSt - 50ml	OPTION
	#106550 #106560 #106580 #106610	#106550 50.000cst - 50ml #106560 60.000cst - 50ml #106580 80.000cst - 50ml #106610 100.000cst - 50ml





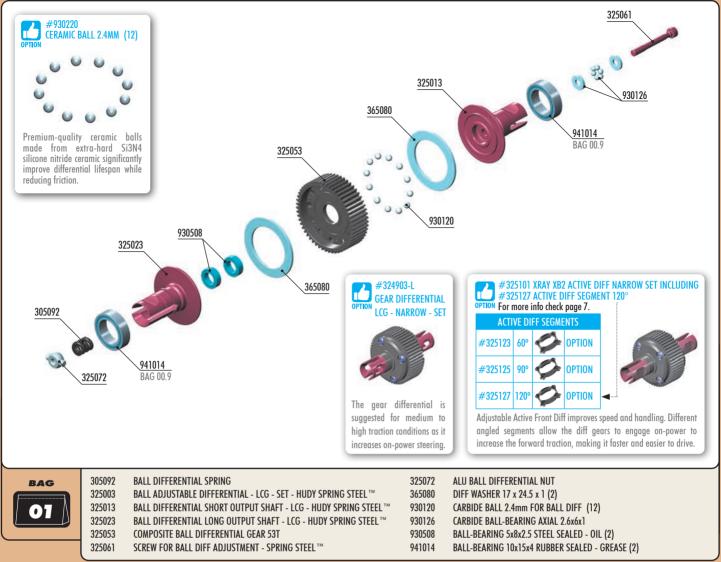




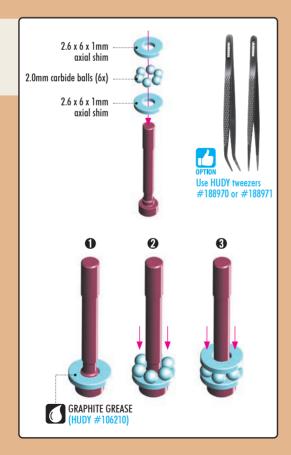


1. BALL DIFFERENTIAL





Numbers in parentheses () refer to quantities when purchased separately.





10

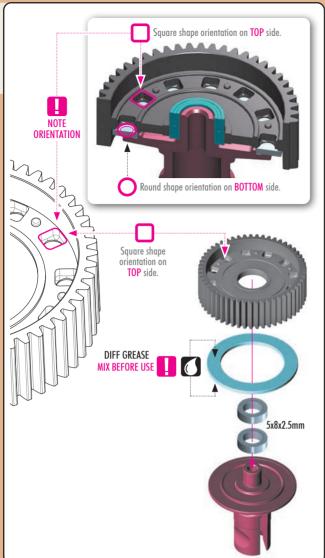
00

1x 930126 BA 2.6x6x1

1. BALL DIFFERENTIAL

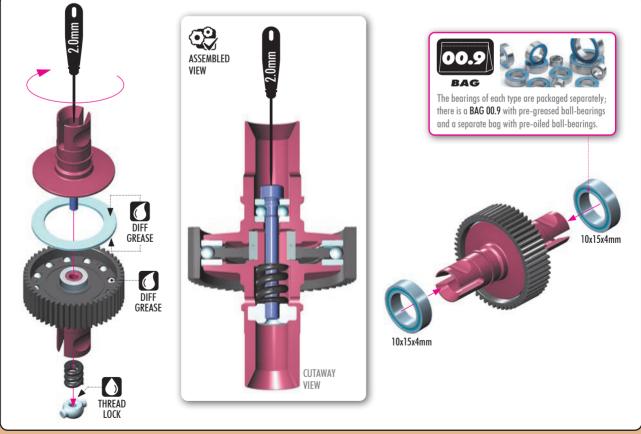
















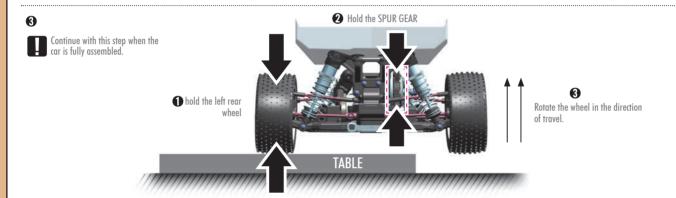
0



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







4



6 Loosen the adjustment screw 1/8 turn (45°CCW).

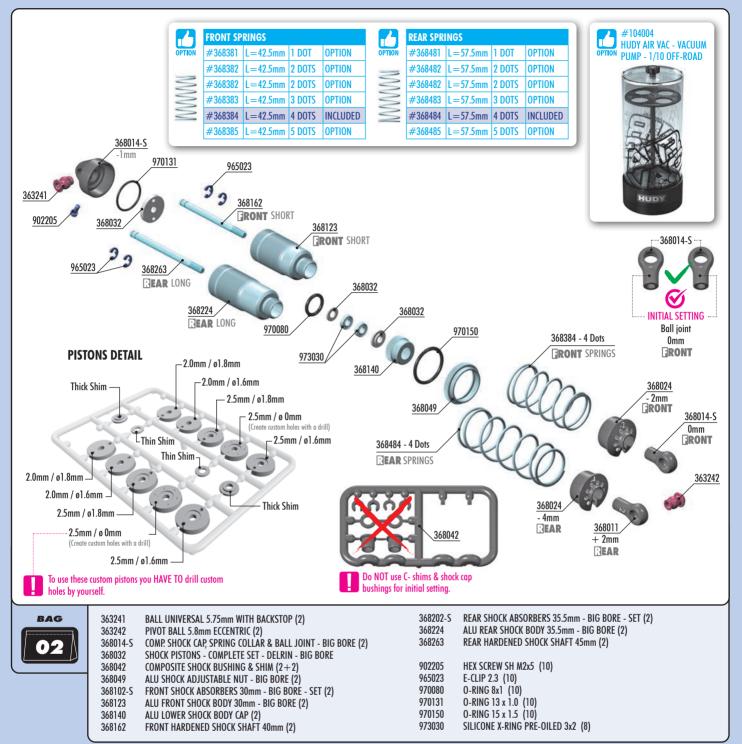




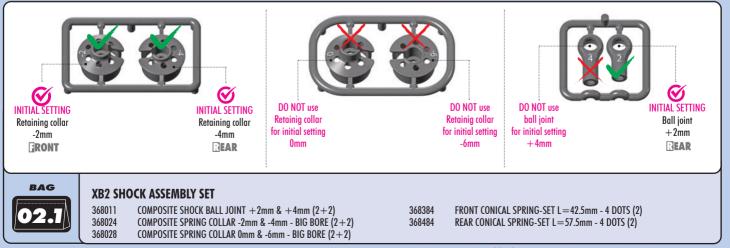
1/8
(45°CCW)



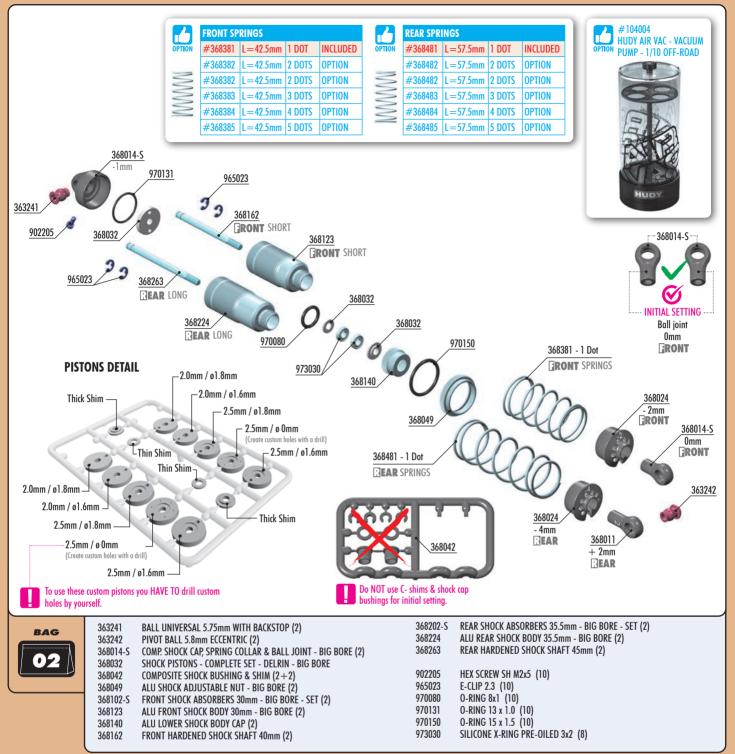




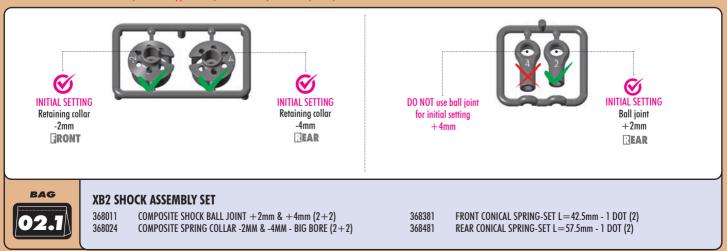
Numbers in parentheses () refer to quantities when purchased separately.







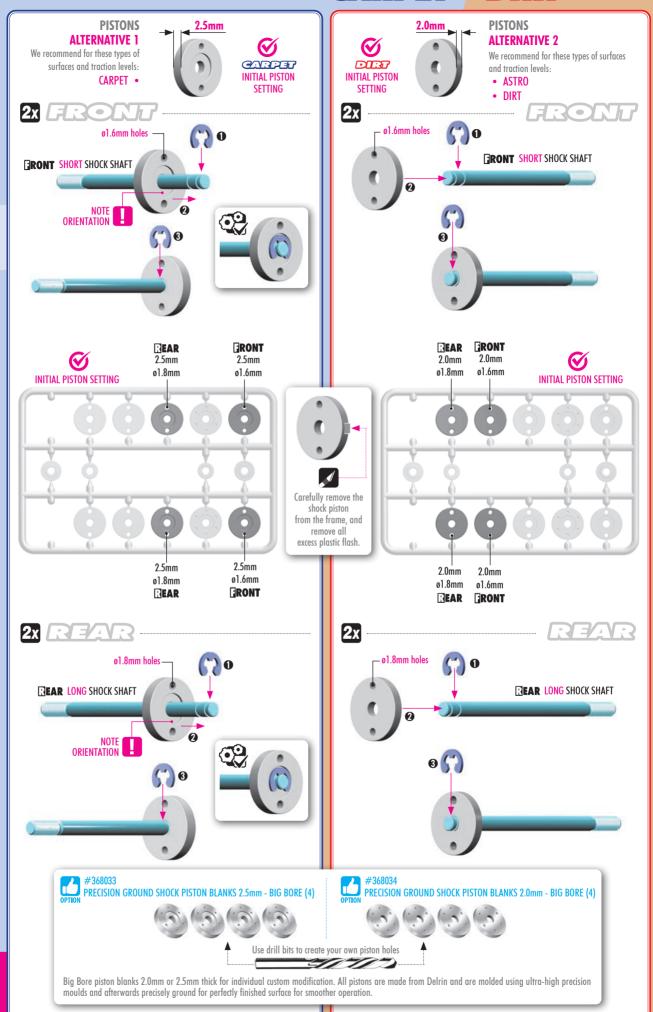
Numbers in parentheses () refer to quantities when purchased separately.



2. SHOCK ABSORBERS

CARPET

DIRT





8x 965023

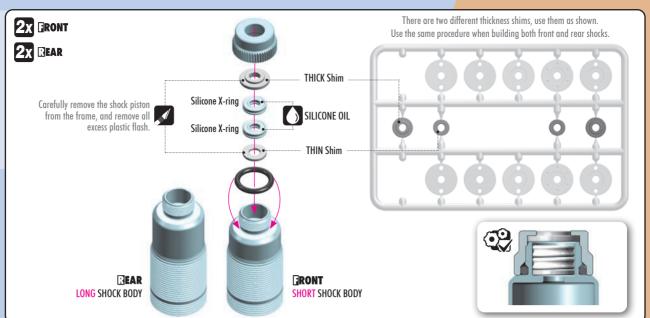
2. SHOCK ABSORBERS

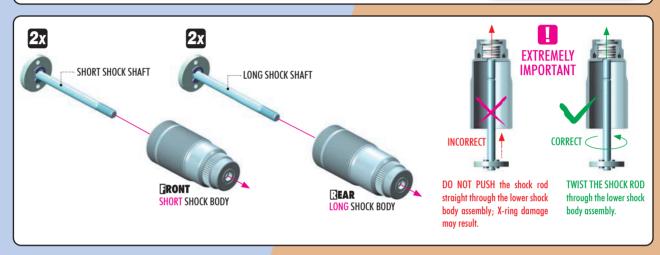


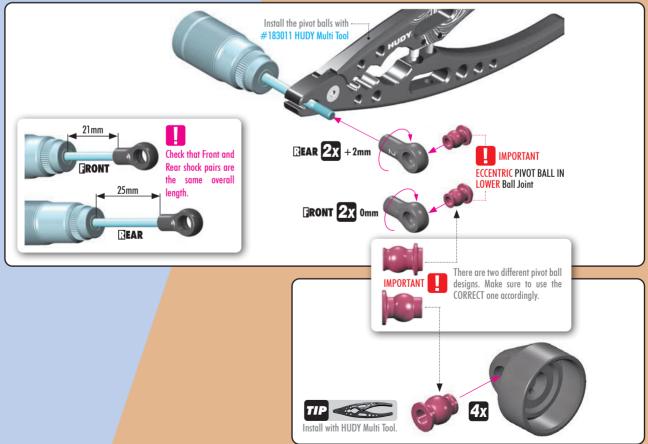










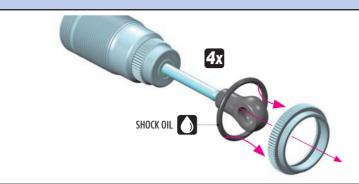






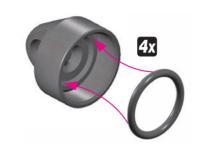


4x 970150 0 15x1.5











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

Alu upper shock cap ensure increased durability and extended life time. Machined from premium Swiss 7075 T6 aluminum and additionally black coated. The shock caps feature vent hole.



GRONT SHORT Oil 300cSt CAMPET **SETTING**

REAR LONG Oil 300cSt INITIAL SETTING



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



INITIAL SHOCK REBOUND SETTING 0% REBOUND

INITIAL SETTING

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



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



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



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



into the shock cap. Tighten gently.

UP & DOWN 6x push the shaft up and down.





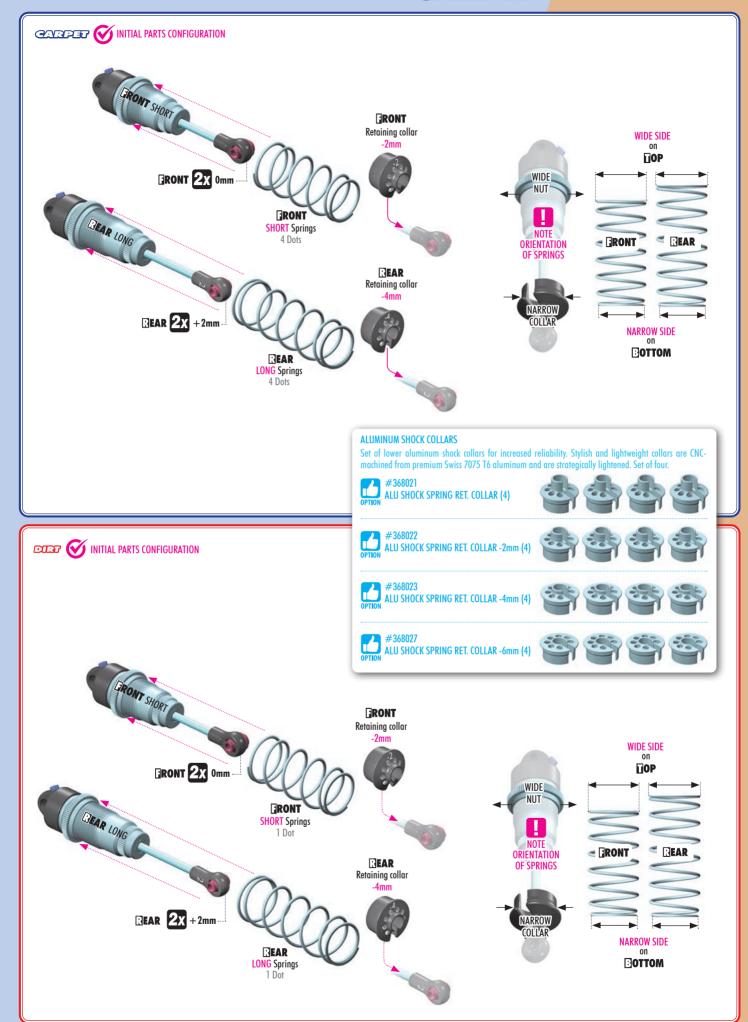
Gently push the shock shaft completely into the shock body. shaft Excess oil will flow through the hole in the shock cap.



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



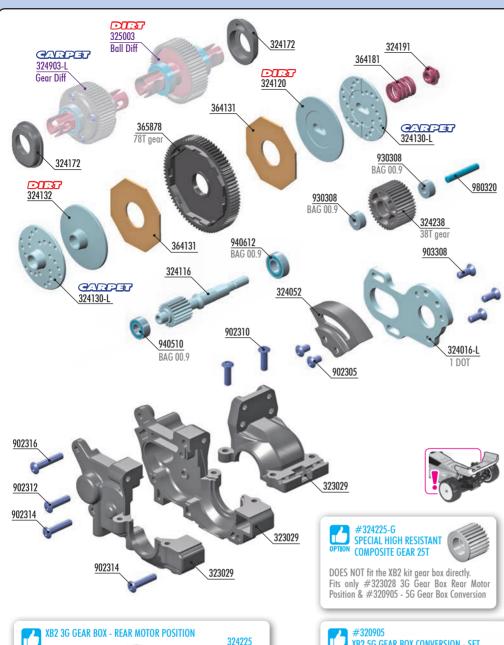




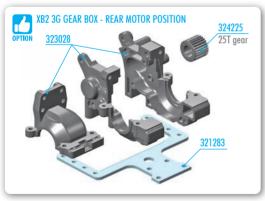
3. REAR TRANSMISSION

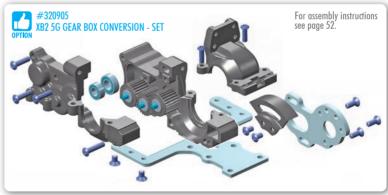


DIRT











323029 COMPOSITE 3G GEAR BOX FOR CHASSIS BRACE - SET 324016-L ALU MOTOR PLATE FOR 3G GEAR BOX -1mm - 1-DOT - SWISS 7075 T6 COMPOSITE GEAR COVER - LCG 324052 ALU 2-PAD TOP SHAFT 20T - LCG - ULTRA-LIGHTWEIGHT - SHORT 324116 324172

COMPOSITE ADJUSTMENT BALL-BEARING HUB (2) 324191 STEEL SLIPPER CLUTCH NUT - HUDY SPRING STEEL™

324238 COMPOSITE GEAR 38T - LCG - GRAPHITE SLIPPER CLUTCH PAD SLS - SOFT (3) SLIPPER CLUTCH SPRING C=45 - BLACK 364131

364181 COMPOSITE 3-PAD SLIPPER CLUTCH SPUR GEAR 78T / 48 365878

HEX SCREW SH M3x5 (10) 902305 HEX SCREW SH M3x10 (10) 902310 902312 HEX SCREW SH M3x12 (10) HEX SCREW SH M3x14 (10) 902314

902316 HEX SCREW SH M3x16 (10) 903308 HEX SCREW SFH M3x8 (10)

930308 BALL-BEARING 3x8x4 STEEL SEALED - OIL (2) BALL-BEARING 5x10x4 RUBBER SEALED - OIL (2) 940510 BALL-BEARING 6x12x4 RUBBER SEALED - OIL (2) 940612

980320 PIN 3x20 (10)

324903-L GEAR DIFFERENTIAL - LCG - NARROW - SET

324130-L ALU 2-PAD SLIPPER CLUTCH PLATES - VENTILATED - SET

BALL ADJUSTABLE DIFFERENTIAL - LCG - SET - HUDY SPRING STEEL $^{\scriptscriptstyle\mathsf{TM}}$ 325003 ALU 3-PAD SLIPPER CLUTCH PLATE - SWISS 7075 T6 - HARD COATED 324120 324132 ALU 2-PAD SLIPPER CLUTCH PLATE 31MM WITH ADAPTER - LCG

3. REAR TRANSMISSION



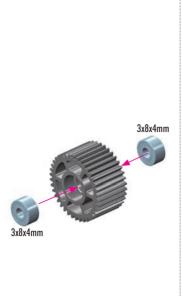


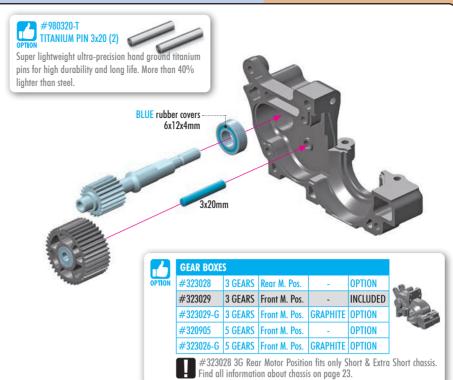




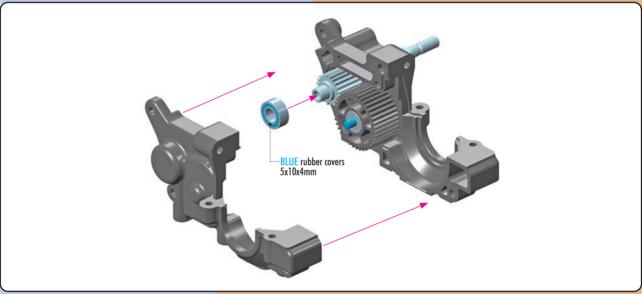


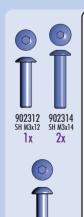




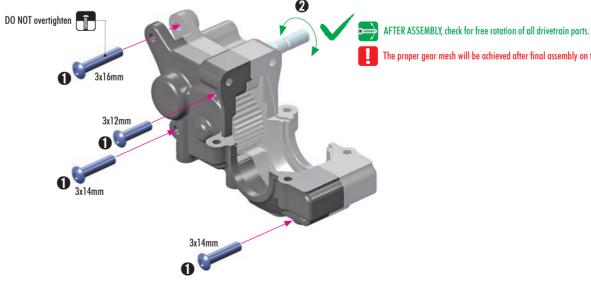


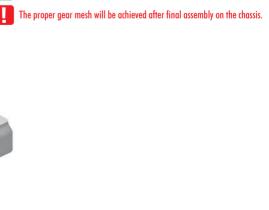






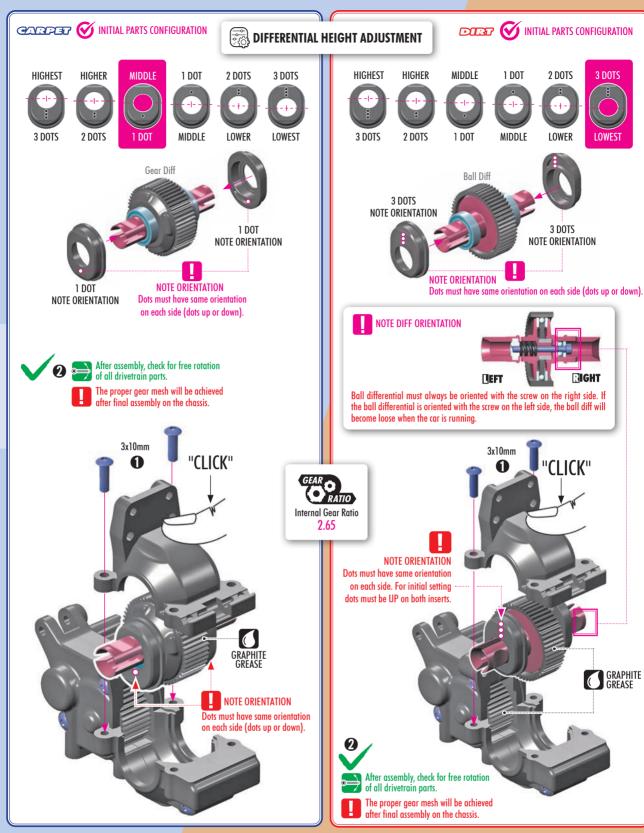
1x 902316 SH M3x16





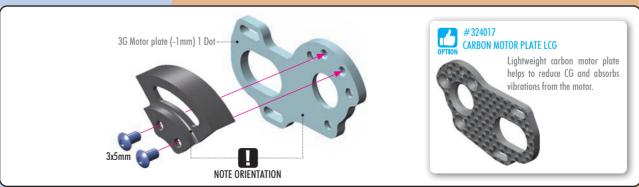








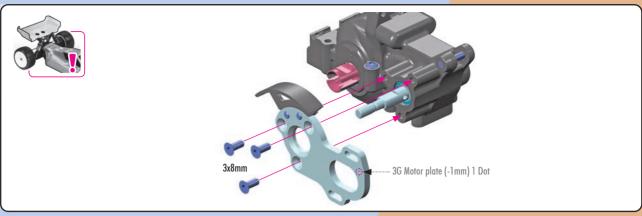
2x 902310 SH M3x10

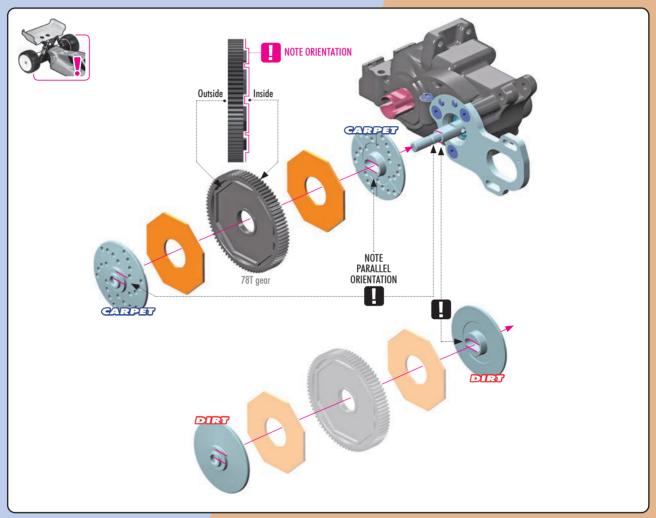


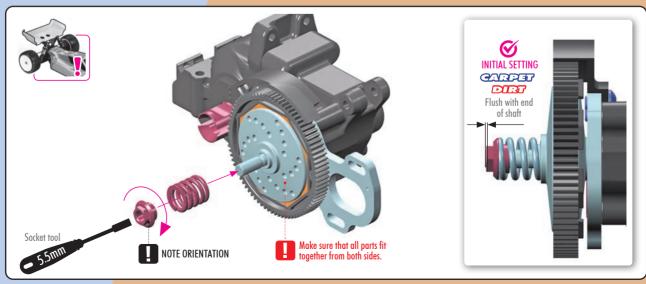








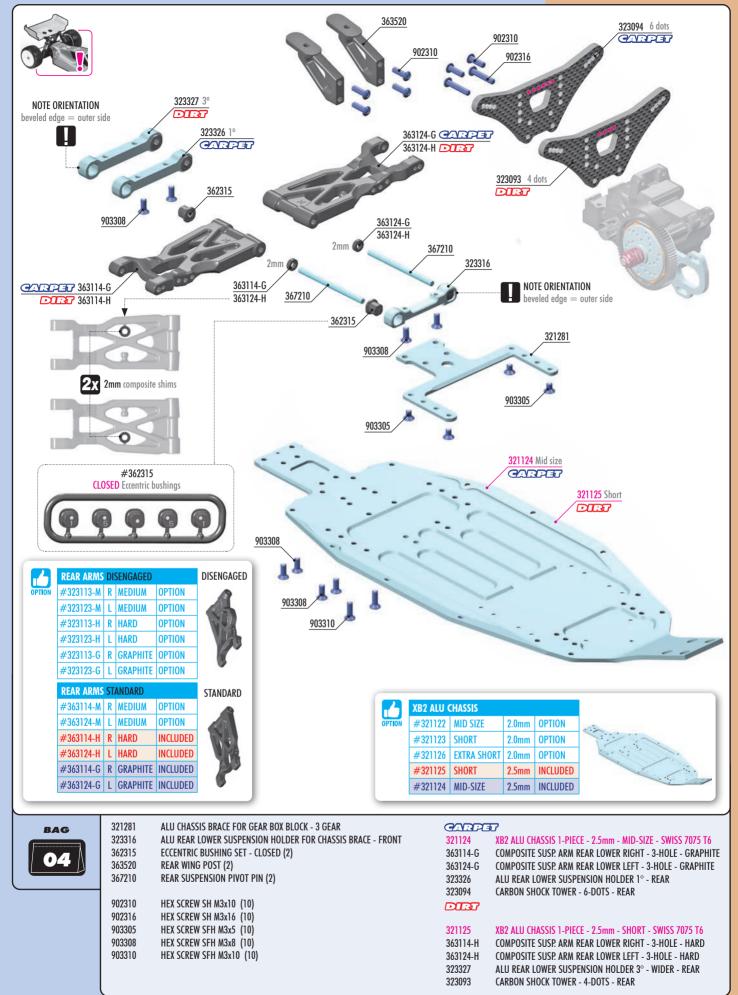




4. REAR SUSPENSION



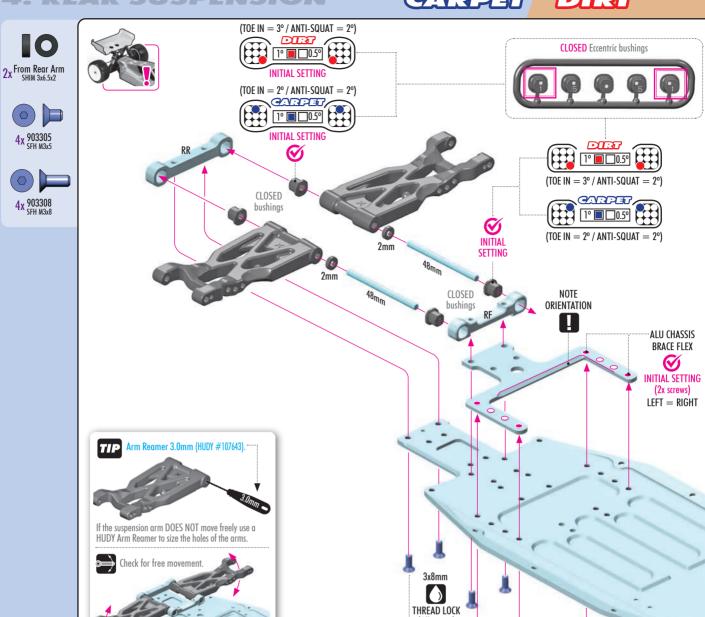




Numbers in parentheses () refer to quantities when purchased separately.







The XRAY rear alu lower suspension holders provide great range of adjustments 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 0	=3.0°		
0	0 0	□ =1.0°		
0	. 0	⊙=3.0°		
0		□ =2.0°		
0	. 0	=4.0°		
0	• •	⊙=1.0°		
0	0 0	• = 2.0°		
0	• •	□ =1.0°		

ECCENTRIC BUSHINGS HAVE TWO DIFFERENT

OFFSETS FROM THE CENTER.

KOLL CENTER			
RR	RF	(mm)	
0	00	=+0.75 _{mm}	
0	0 0	● =0 _{mm}	
0	0.0	=-0.75 _{mm}	

Middle position $= 0.5^{\circ}$ or 0.375mm from center.

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

TRACK-WIDTH				
R	R	RF	(mm)	
0	_ O C	0	=+1.5mm	
0	0 0) 0	$=0_{mm}$	
0	0 0	•	=-1.5 _{mm}	
The second	at date to although		de de d	

(All screws)

TOE-IN CARPET				
RR	RF	(°)		
• XRAY 1° •	0 0	=1°		
• XRAY 1° •	0 0	=2°		
• XRAY 1° •	0 0	=3°		

THREAD LOCK

(All screws)

All screws tighten gently.All screws fully tighten.

3x5mm

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

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

ANTI-SQUAD Example:		1		
$0(RR) - 0 (RF) = 2.0^{\circ}$	0	0	0	= 2.0°
$0(RR) - 0.5 (RF) = 2.5^{\circ}$	0	0	0	= 2.5°
O(RR) - 1 (RF) = 3.0°	0	0	0	= 3.0°

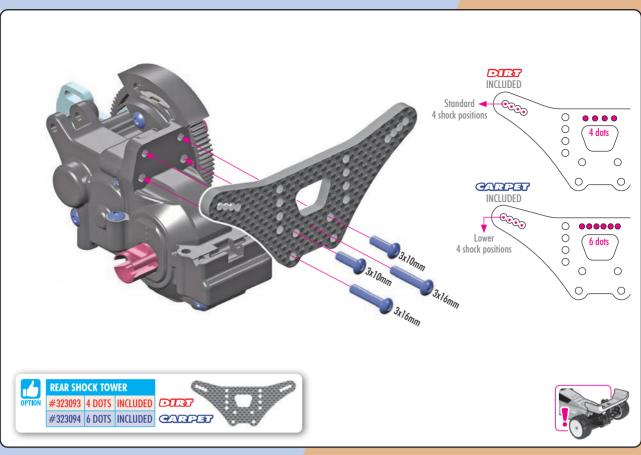
• XRAY 1° •	0	0	=3°		
TOE-IN DIRT					
RR	RF		(°)		
• XRAY 3° •	0	•	=3°		
⊙ xray 3° ⊡	0	0	=4°		
○ XRAY 3° ○	0	0	=2°		
O XRAY 3° €	0	0	=1°		
• XRAY 3° •	0	•	=5°		

4. REAR SUSPENSION



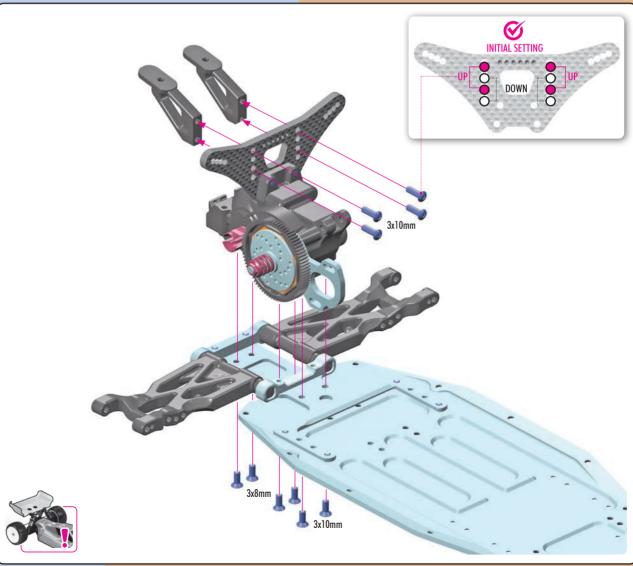






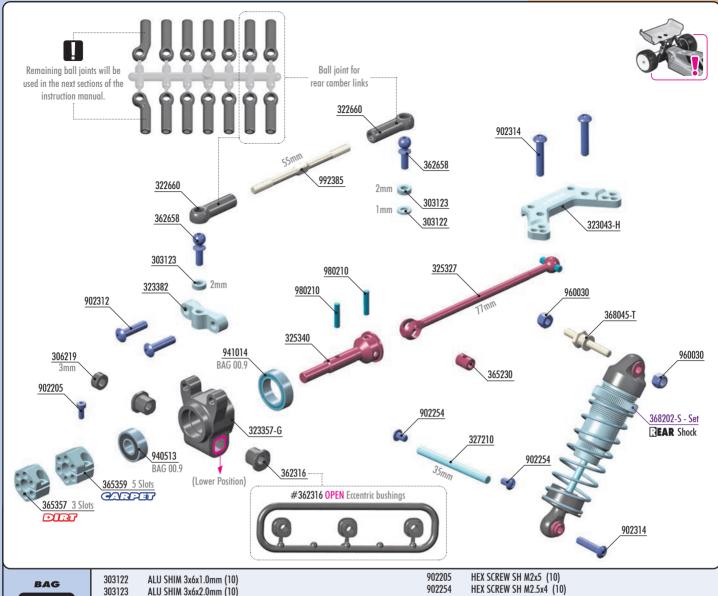


2x 903310 SFH M3x10









ALU SHIM 3x6x2.0mm (10) COMPOSITE SET OF SHIMS (4) 306219 COMPOSITE BALL JOINT 5.4mm (12+1+1) 322660 ALU REAR ROLL-CENTER HOLDER FOR ANTI-ROLL BAR COLLAR - 7075 T6 323043-H 323357-G COMPOSITE UPRIGHT REAR - LOWER POSITION - GRAPHITE ALU REAR HUB PLATE FOR MULTI ADJ. UPRIGHT - 1-HOLE - SWISS 7075 T6 323382 REAR DRIVE SHAFT 77mm WITH 2.5mm PIN - HUDY SPRING STEEL 325327 REAR DRIVE AXLE LB - HUDY SPRING STEEL' SUSPENSION PIVOT PIN (2) 325340 327210 ECCENTRIC BUSHING SET - OPEN (2)
HARD STEEL BALL END 5.4mm WITH 8mm THREAD - NICKEL COATED (2) 362316 362658 365230 DRIVE SHAFT COUPLING - HUDY SPRING STEELT XRAY TITANIUM SHOCK STANDOFFS (2) 368045-T HUDY TITANIUM ADJUSTABLE TURNBUCKLE 55mm M3.5 L/R (2) 992385

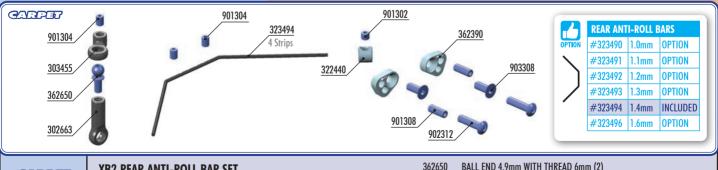
902312 HEX SCREW SH M3x12 (10) 902314 HEX SCREW SH M3x14 (10) BALL-BEARING 5x12x4 RUBBER SEALED - GREASE (2) 940513 941014 BALL-BEARING 10x15x4 RUBBER SEALED - GREASE (2) 960030 NUT M3 (10) 980210 PIN 2x9.8 (10) CARPET.

365359 ALU WHEEL HUB 12mm - 5 SLOTS - OFFSET "+3.75mm" (2)

365357

ALU WHEEL HUB 12mm - 3 SLOTS - OFFSET "+2.25mm" (2)

368202-S REAR SHOCK ABSORBERS 30mm - BIG BORE - SET (2)





XB2 REAR ANTI-ROLL BAR SET

302663 COMPOSITE BALL JOINT 4.9mm - OPEN - V2 (8) COMPOSITE ANTI-ROLL BAR BALL JOINT 4.9mm (4) 303455 322440 ALU ANTI-ROLL BAR COLLAR

323494 ANTI-ROLL BAR REAR - SHORT - 1.4mm 362390 ALU REAR SHOCK ABSORBER ADAPTER (1+1) - SET

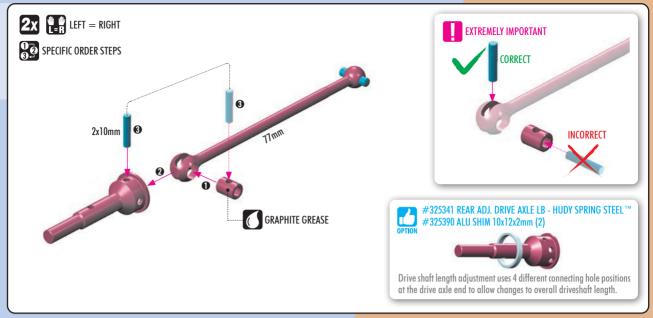
HEX SCREW SB M3x2.5 (10) HEX SCREW SB M3x4 (10) HEX SCREW SB M3x8 (10) 901304 901308 902312 HEX SCREW SH M3x12 (10) HEX SCREW SFH M3x8 (10)

ntheses () refer to quantities when purchased separately.









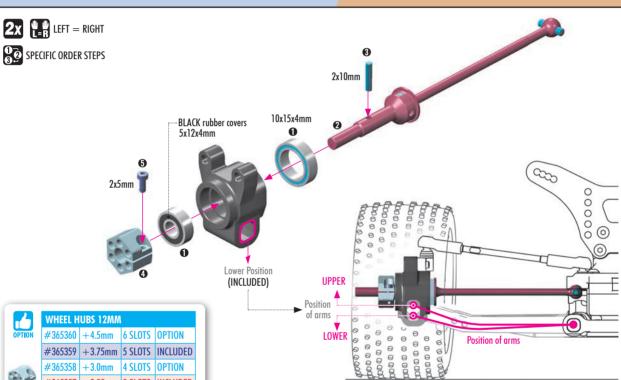




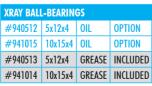












#365358 | +3.0mm | 4 SLOTS | OPTION #365357 +2.25mm 3 SLOTS INCLUDED #365356 | +1.5mm | 2 SLOTS | OPTION #365355 | +0.75mm | 1 SLOT

#365353 0mm

#365354 -0.75mm

decrease the track-width.

Rear - more traction

Front - more steering

LESS OFFSET

#365361 -1.25mm Lightw.

OPTIONAL HEX HUB EFFECTS

OPTION

OPTION

OPTION

O SLOTS OPTION

MORE OFFSET

Rear - less traction

Front - less steering

Lightw.

Different offset hex hubs are used to increase or



UPPER position

We recommend for these types of surfaces and traction:

- DIRT low & high traction
- Wet ASTRO

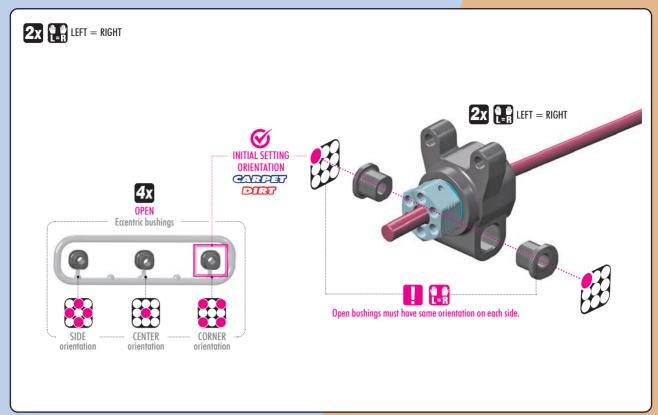
LOWER position

We recommend for these types of surfaces and traction:

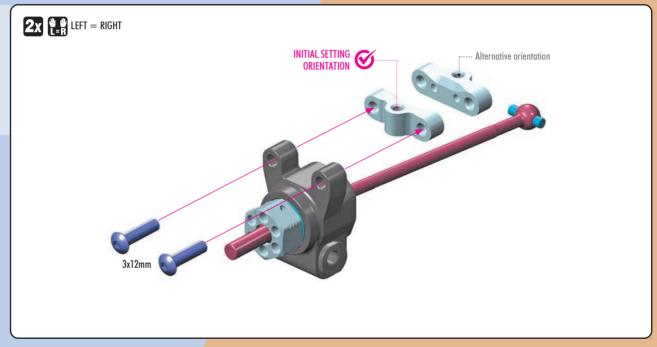
- CARPET
- Dry ASTRO
- DIRT very high traction



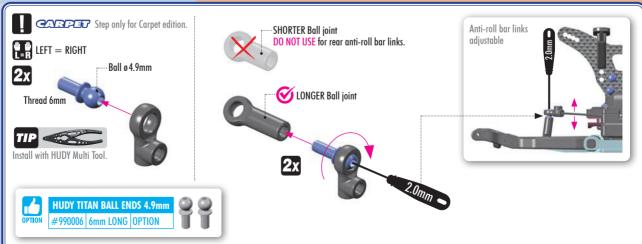












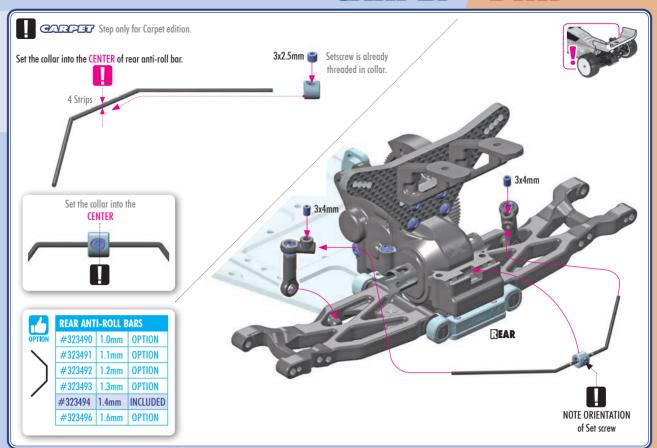
5. REAR DRIVETRAIN

CARPET DIRT

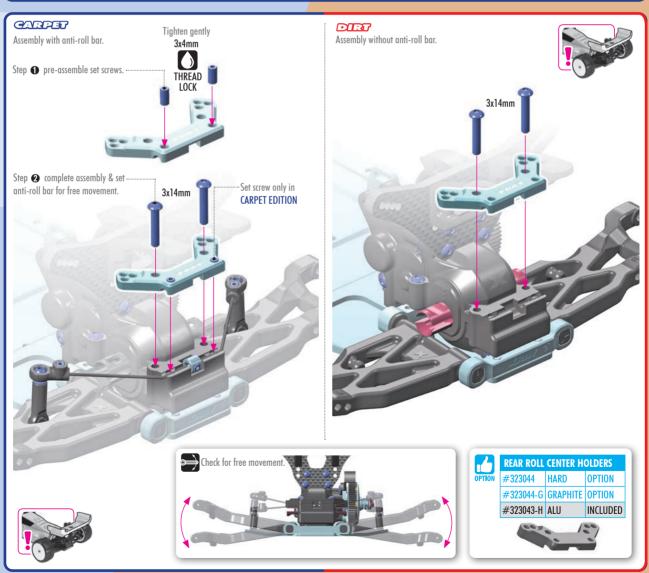










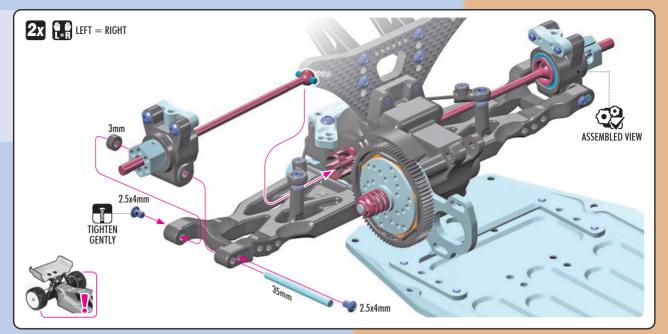


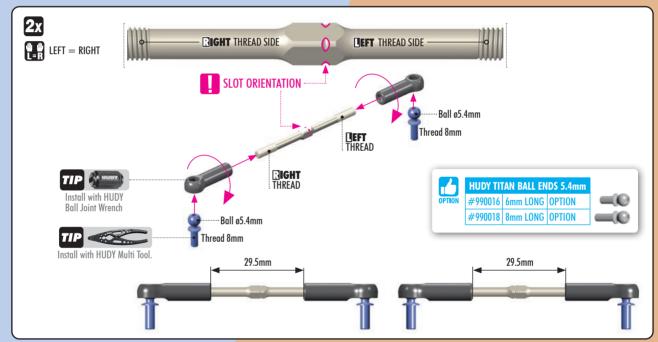








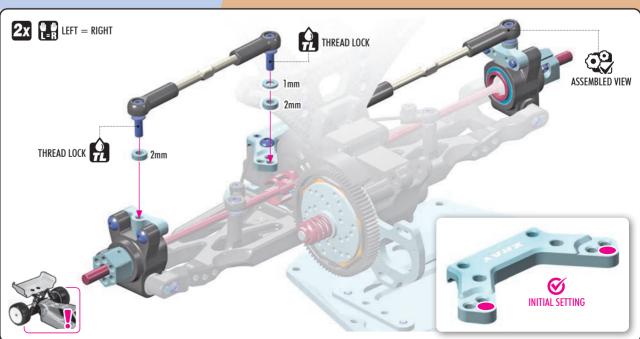








4x 303123 SHIM 3x6x2

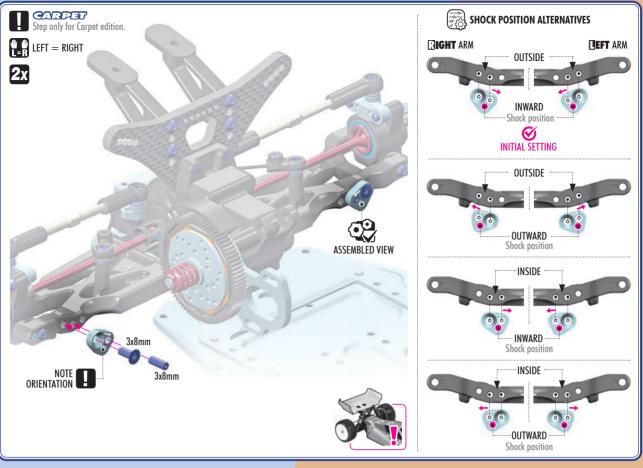


5. REAR DRIVETRAIN

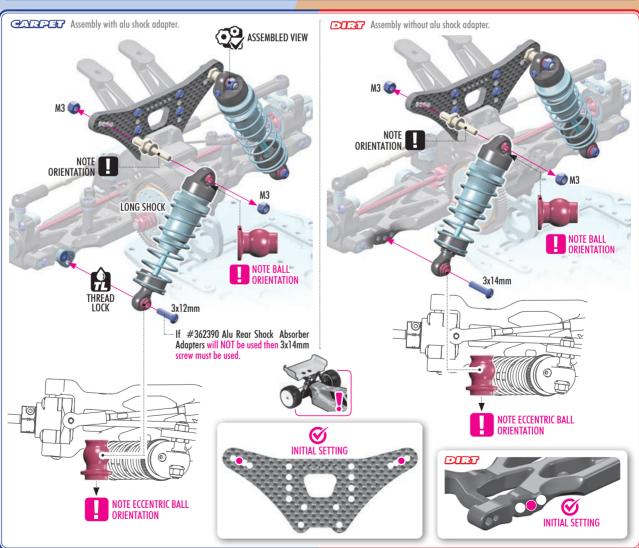








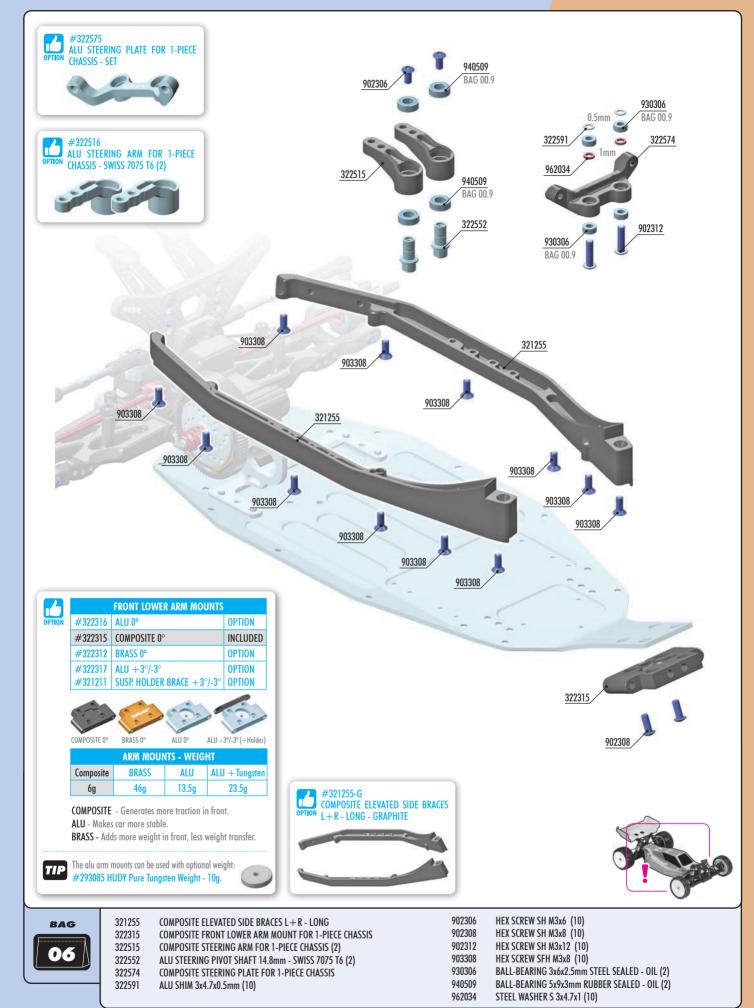




6. FRONT ASSEMBLY







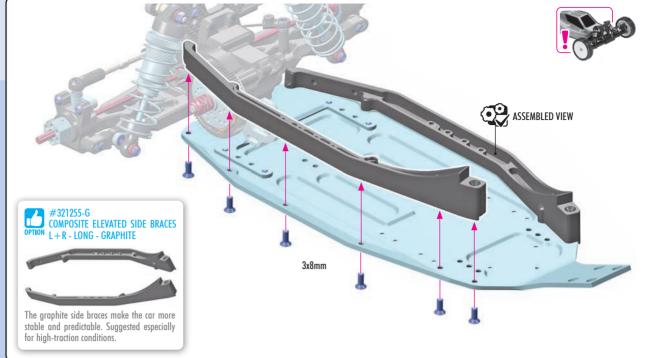
Numbers in parentheses () refer to quantities when purchased separately.

6. FRONT ASSEMBLY



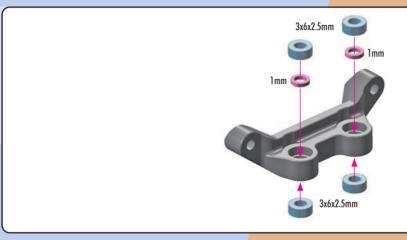










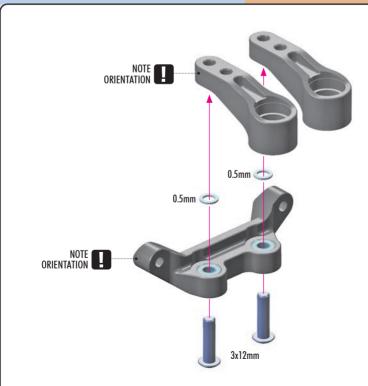




Alu steering plate increases strength and reliability as well improves precision and steering feel. There is also increased clearance around the system for easier maintenance & set-up adjustments.









Alu steering arms increase strength and reliability as well improve precision and steering feel.



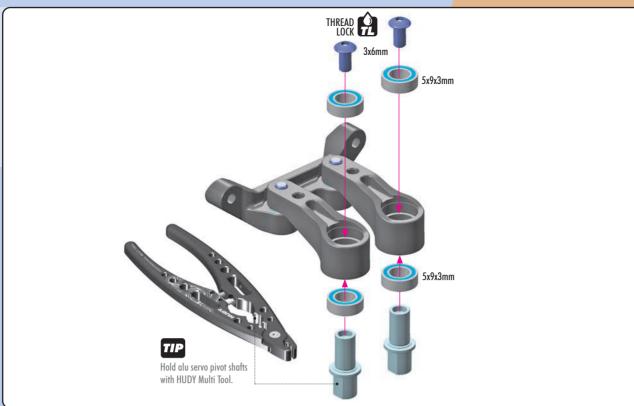
6. FRONT ASSEMBLY



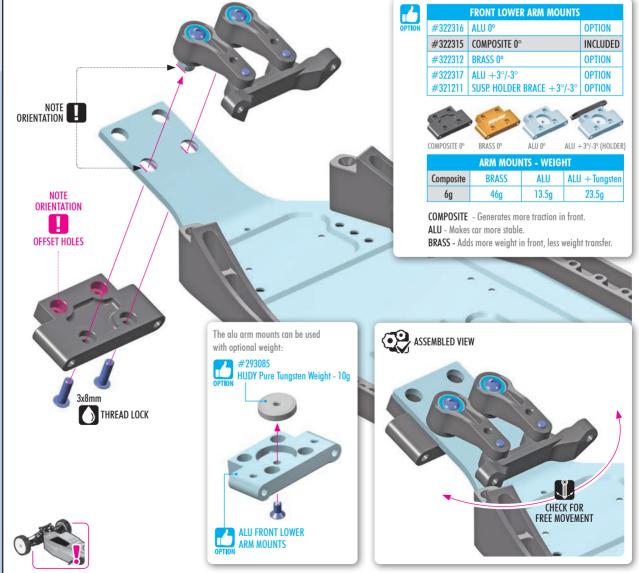








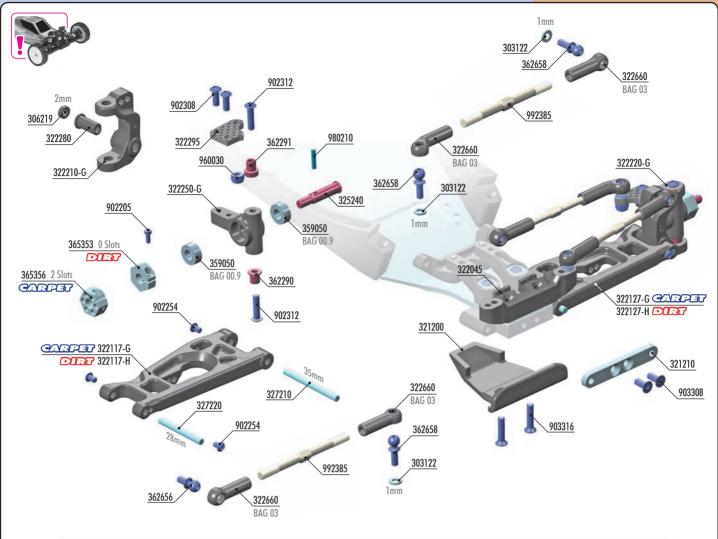


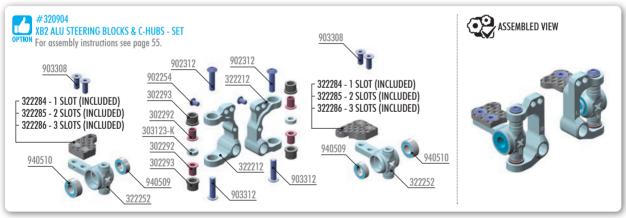


7. FRONT SUSPENSION









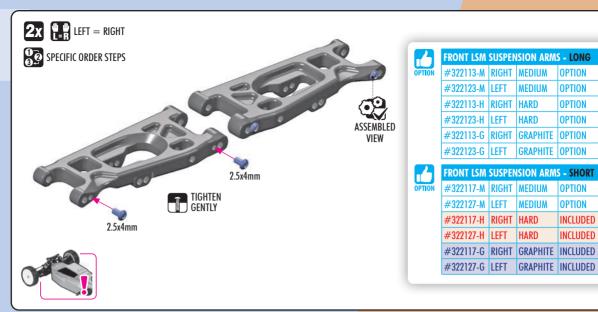


303122	ALU SHIM 3x6x1.0mm (10)	359050	BALL-BEARING 5x10x4 STEEL SEALED - GREASE (2)
306219	COMPOSITE SET OF SERVÓ SHIMS (4)	902205	HEX SCREW SH M2x5 (10)
321200	COMPOSITE FRONT BUMPER	902254	HEX SCREW SH M2.5x4 (10)
321210	ALU SUSPENSION HOLDER BRACE - SWISS 7075 T6 (3mm)	902308	HEX SCREW SH M3x8 (10)
322045	COMPOSITE FRONT ROLL-CENTER HOLDER FOR BRIDGE UPPER DECK	902312	HEX SCREW SH M3x12 (10)
322210-G	COMPOSITE C-HUB 0° DEG. RIGHT - GRAPHITE	903308	HEX SCREW SFH M3x8 (10)
322210-G	COMPOSITE C-HUB O° DEG. LEFT - GRAPHITE	903316	HEX SCREW SFH M3x16 (10)
322250-G	COMPOSITE STEERING BLOCK - GRAPHITE	960030	NUT M3 (10)
322280		980210	PIN 2x9.8 (10)
	COMPOSITE CASTER ECCENTRIC BUSHING (2+2+2)	700210	1 IN 2x7.0 (10)
322295	CARBON EXTENSION FOR STEERING BLOCK - 2 DOTS (2)		
322660	COMPOSITE BALL JOINT 5.4mm (12+1+1)	<i>Garp</i>	
325240	FRONT DRIVE AXLE - HUDY SPRING STEEL™	322117-G	SUSPENSION ARM FRONT - LSM - RIGHT - SHORT - GRAPHITE
327210	FRONT SUSPENSION PIVOT PIN 3x35mm (2)	322127-G	SUSPENSION ARM FRONT - LSM - LEFT - SHORT - GRAPHITE
327220	FRONT ARM PIVOT PIN 3x28mm (2)	365356	ALU WHEEL HUB 12mm - 2 SLOTS - OFFSET $+1.50$ mm (2)
362290	STEEL STEERING BUSHING - SHORT (2)		·
362291	STEEL STEERING BUSHING - LONG (2)		
362656	BALL ENDS 5.4mm WITH THREAD 6mm (2)	322117-H	SUSPENSION ARM FRONT - LSM - RIGHT - SHORT - HARD
362658	BALL ENDS 5.4mm WITH THREAD 8mm (2)	322127-H	SUSPENSION ARM FRONT - LSM - LEFT - SHORT - HARD
992385	HUDY TITANIUM ADJUSTABLE TURNBUCKLE 55mm M3.5 L/R (2)	365353	ALU WHEEL HUB 12mm - 0 SLOTS (2)
			(-/

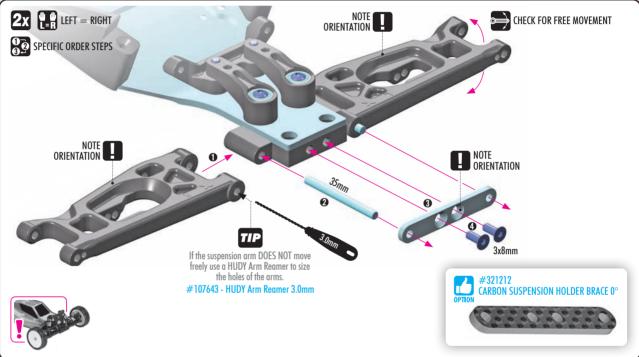




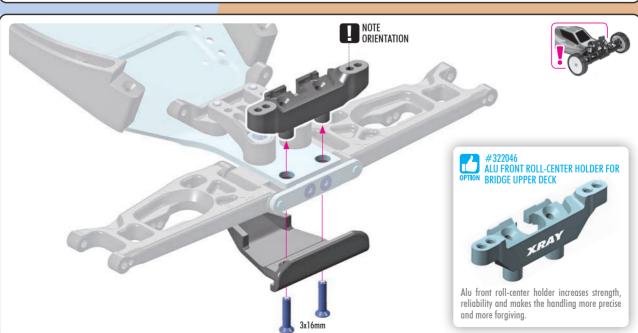










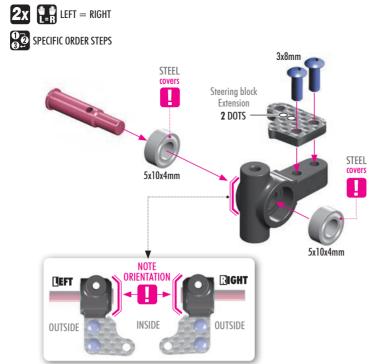


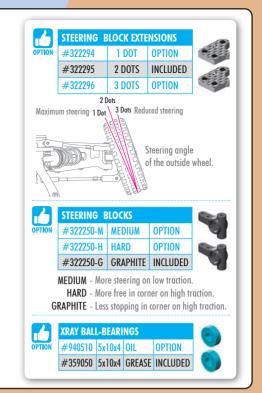






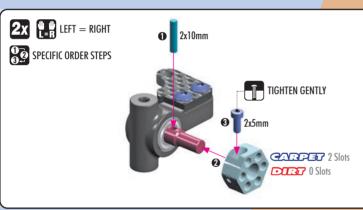






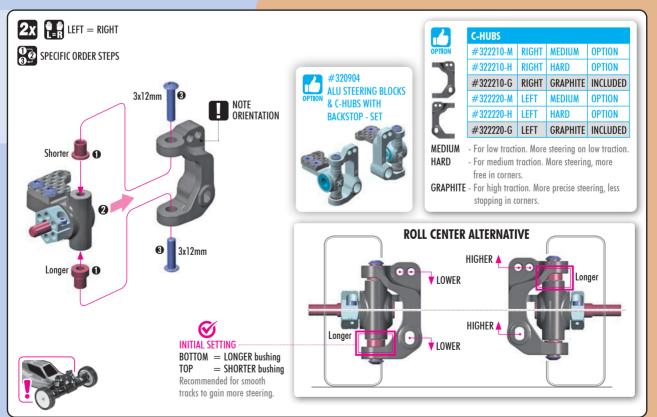










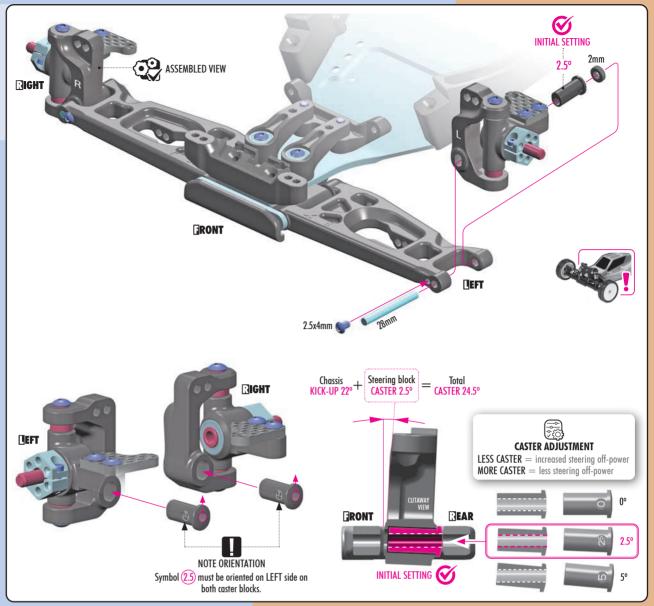


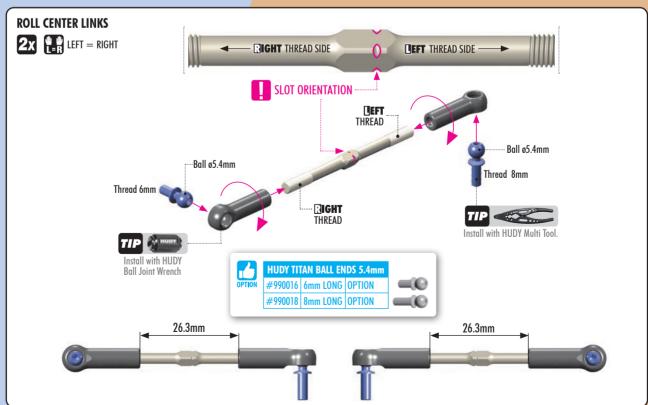










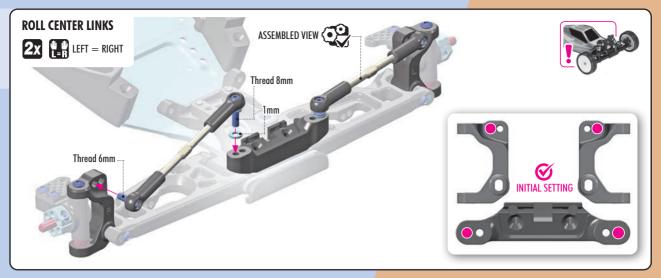


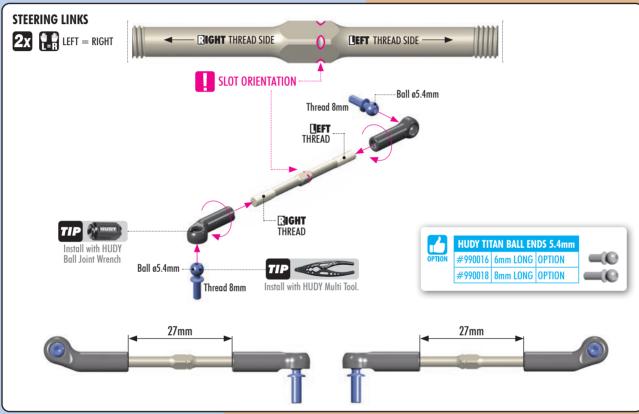
7. FRONT SUSPENSION



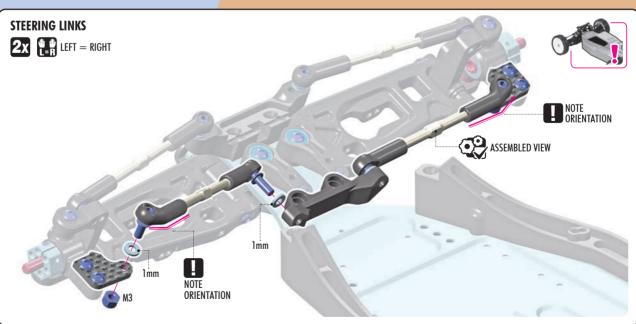


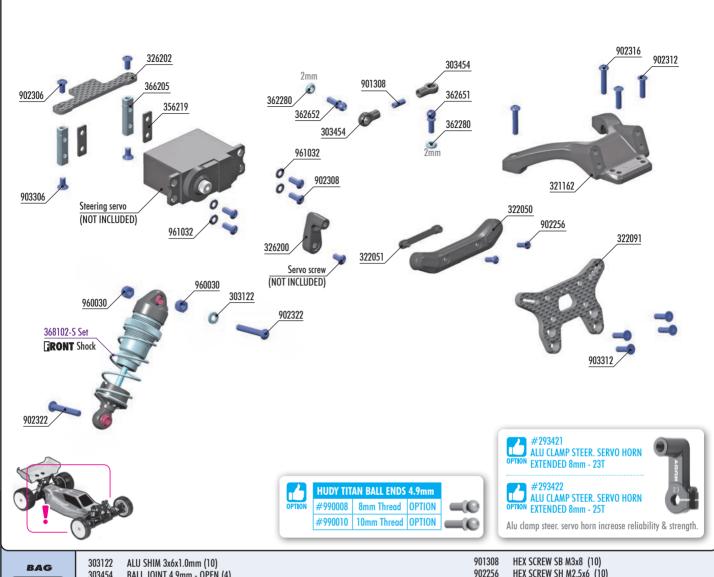












08

BALL JOINT 4.9mm - OPEN (4) 303454 COMP. FRONT BRIDGE UPPER DECK 321162 COMP. FRONT SHOCK TOWER PROTECTOR COMP. FRONT SHOCK TOWER INSERT (2) 322050 322051 322091 CARBON SHOCK TOWER - 2-DOTS - FRONT 326200 COMP. STEERING SERVO ARMS - EXT. - 23T + 25T 326202 ALU SERVO HOLDERS & CARBON BRIDGE COMP. SERVO SHIMS 1.0. 1.5 & 2.5mm (2+2+2) 356219 ALU CONICAL SHIM 3x6x2.0mm (10) 362280 BALL END 4.9mm WITH THREAD 8mm (2) 362651 BALL END 4.9mm WITH THREAD 10mm (2) 362652 366205 **ALU SERVO MOUNT 22mm**

902256 HEX SCREW SH M2.5x6 (10) 902306 HEX SCREW SH M3x6 (10) 902308 HEX SCREW SH M3x8 (10) HEX SCREW SH M3x12 (10) 902312 902316 HEX SCREW SH M3x16 (10) HEX SCREW SH M3x22 (10) 902322 903306 HEX SCREW SFH M3x6 (10) 903312 HEX SCREW SFH M3x12 (10) 960030 NUT M3 (10) 961032 WASHER \$ 3.2 (10)

368102-S FRONT SHOCK ABSORBERS 30mm BIG BORE - SET (2)

Numbers in parentheses () refer to quantities when purchased separately.



BAG

XB2 FRONT ANTI-ROLL BAR SET

COMPOSITE BALL JOINT 4.9mm - OPEN (4)
COMPOSITE ANTI-ROLL BAR BALL JOINT 4.9mm (4)
PIVOT BALL 4.9mm DOUBLE BEVEL SHOULDERS (10)
ALU ANTI-ROLL BAR COLLAR 303454 303455 307455 322440

HEX SCREW SB M3x2.5 (10) HEX SCREW SB M3x4 (10) HEX SCREW SH M3x12 (10) 901302 901304 902312

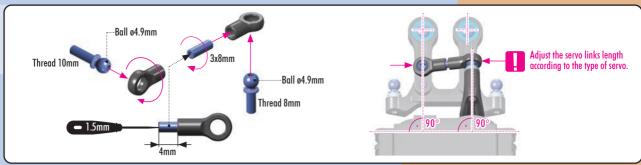
BALL ENDS 4.9mm WITH THREAD 8mm (2)

362651









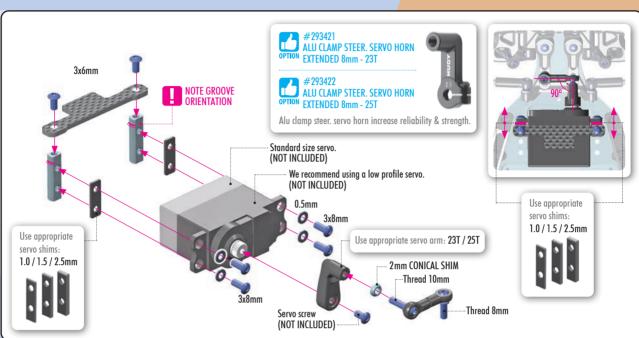






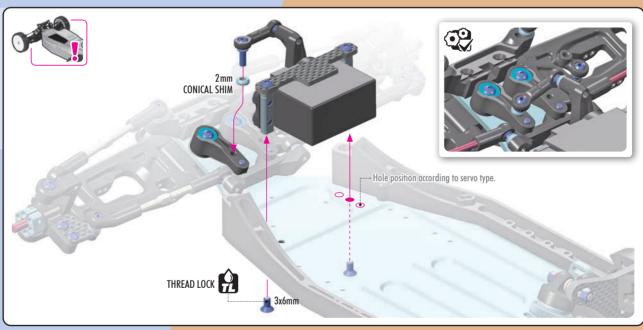




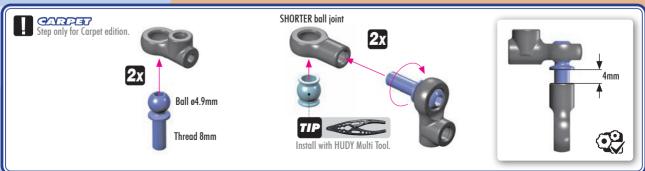








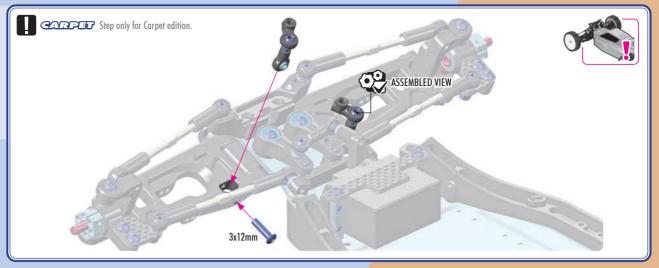




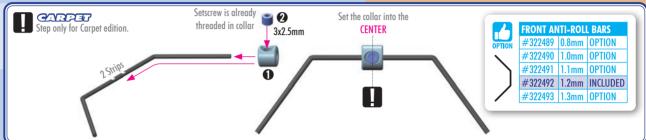




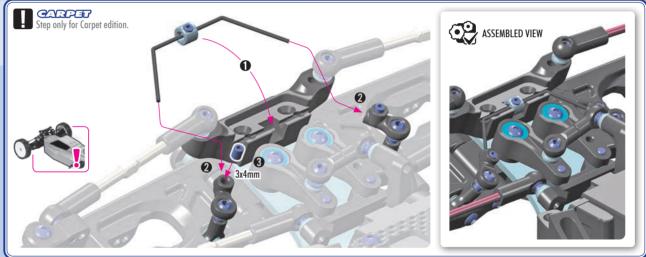




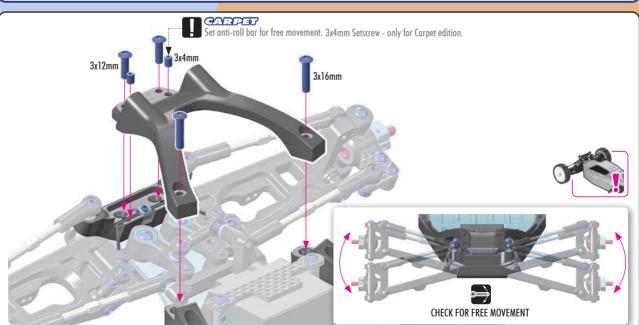








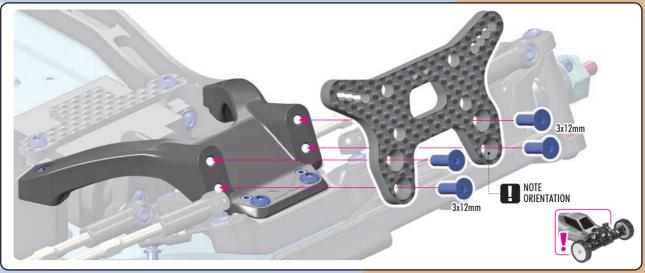




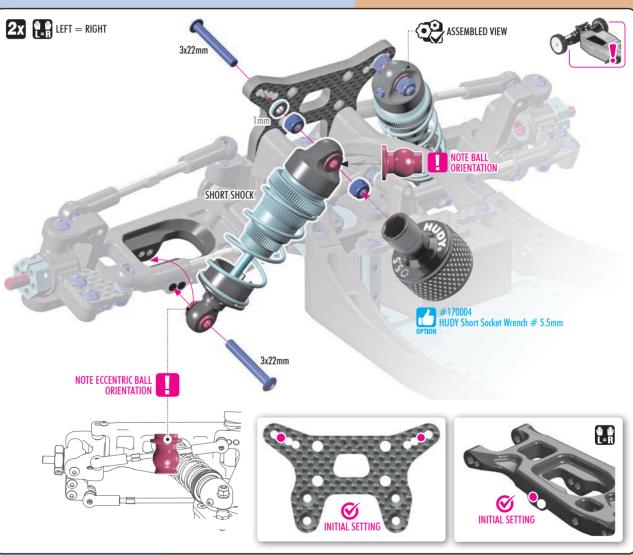










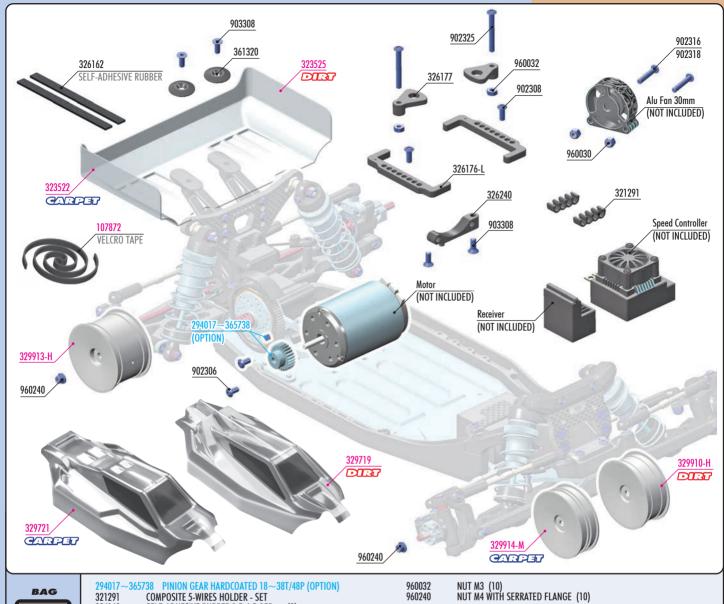












08

SELF-ADHESIVE RUBBER 1.5x6.5x155mm (2) COMPOSITE LIPO BATTERY HOLDER - LONG (2+2) 326162 326176-L COMPOSITE BATTERY CLAMP (2) COMPOSITE FAN HOLDER 326177 326240 361320 BODY MOUNT, BATTERY MOUNT - V2 & WING SHIM (2) HEX SCREW SH M3x6 (10) HEX SCREW SH M3x8 (10) HEX SCREW SH M3x16 (10) HEX SCREW SH M3x18 (10) 902306 902308 902316 902318 902325 HEX SCREW SH M3x25 903308 HEX SCREW SFH M3x8 (10) 960030 NUT M3 (10)

VELCRO TAPE WITH DOUBLE SIDED TAPE 8x500mm REAR WHEEL AERODISK WITH 12MM HEX IFMAR - WHITE - HARD (2) 107872 329913-H

CARPET

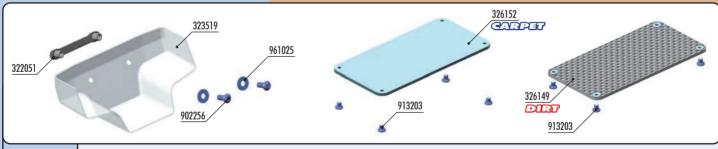
LEXAN REAR WING - LUSH 323522

BODY FOR 1/10 2WD OFF-ROAD BUGGY - EPSILON 2C - LIGHT 329721 329914-M 1/10 OFF-ROAD WHEEL - 2WD - FRONT - NARROW - WHITE (2)

LEXAN REAR WING - LUSH - WIDE

329719 BODY FOR 1/10 2WD OFF-ROAD BUGGY - EPSILON 2D - LIGHT 1/10 OFF-ROAD WHEEL - 2WD - FRONT - WHITE (2) 329910-H

Numbers in parentheses () refer to quantities when purchased separately



08.1

XB2 FINAL ASSEMBLY SET

COMPOSITE FRONT SHOCK TOWER INSERT (2) 322051 LEXAN FRONT WING - WIDE - RIBBED 323519

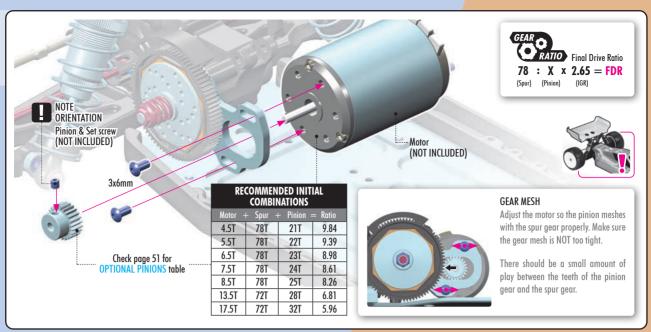
902256 HEX SCREW SH M2.5x6 (10) 913203 961025 WASHER S 2.5 (10)

HEX SCREW 110° SFH M2x3 (10)

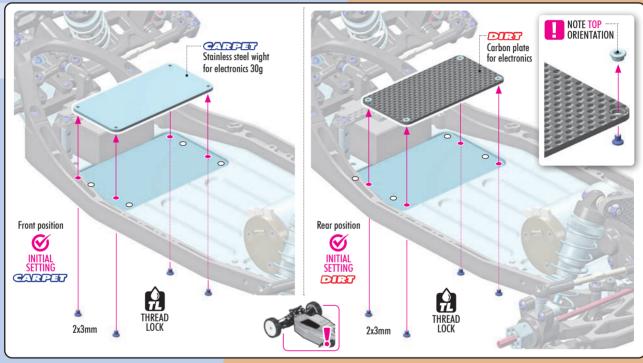
326152 STAINLESS STEEL WEIGHT FOR ELECTRONICS 1-PIECE CHASSIS 30G

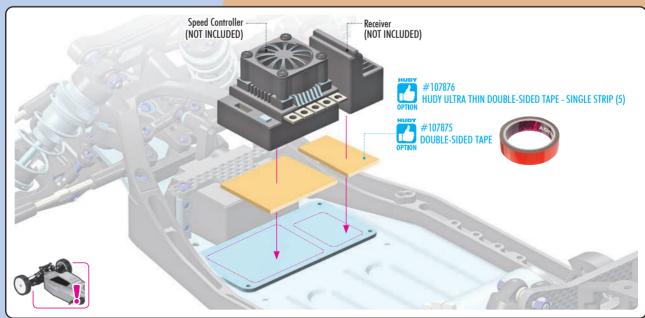
326149 CARBON PLATE FOR ELECTRONICS FOR 1-PIECE CHASSIS - SET







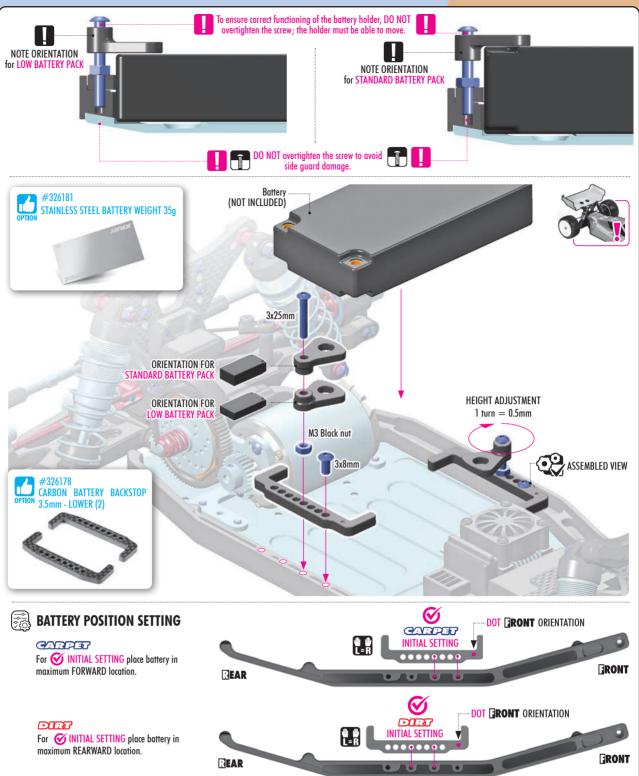


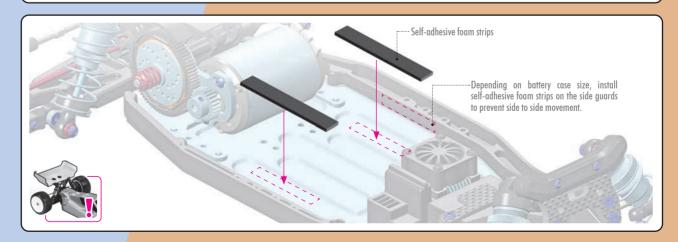






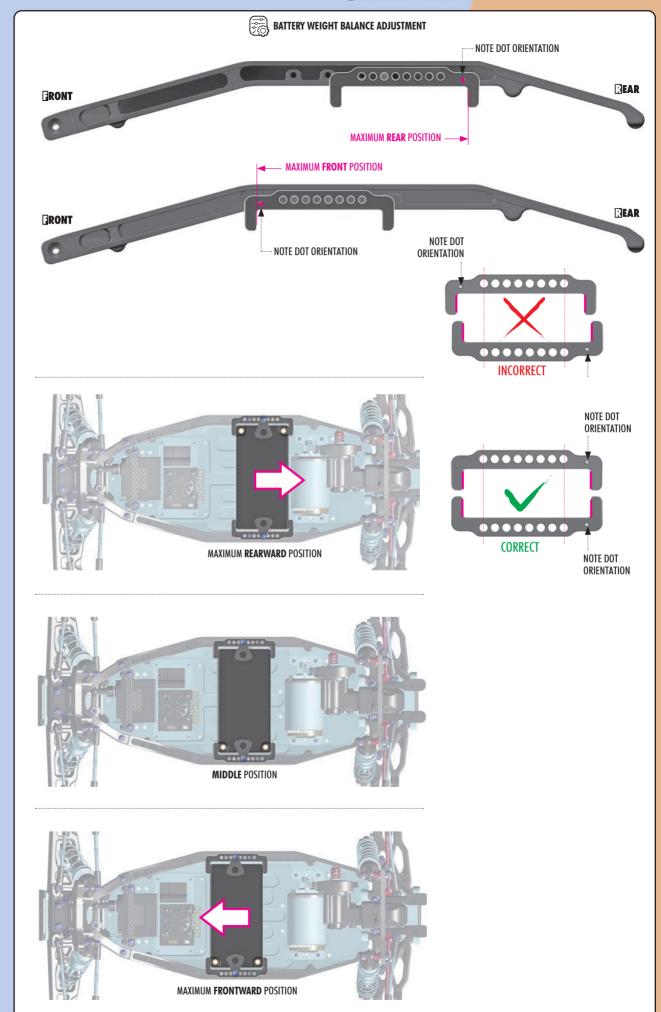










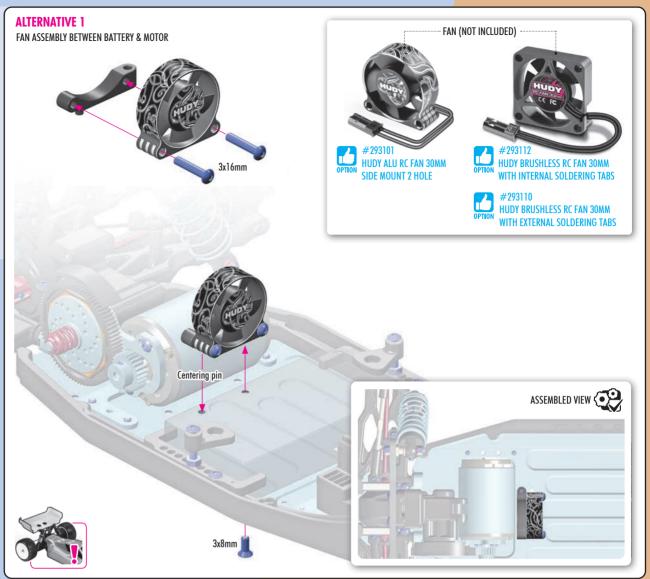






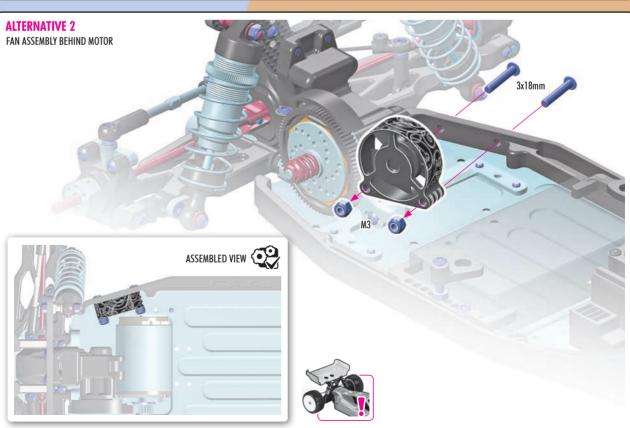








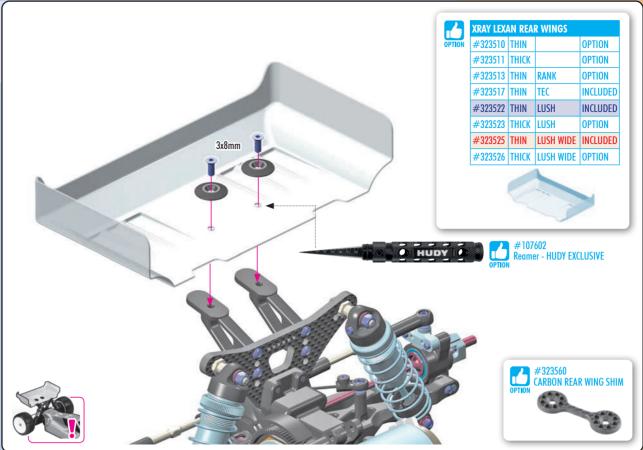






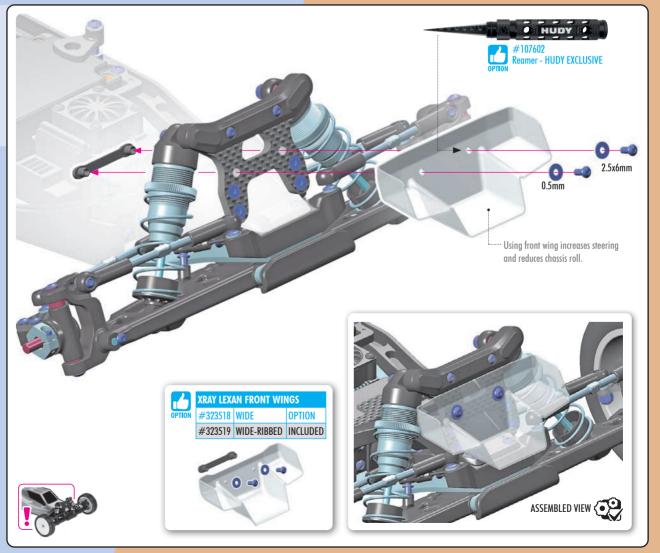






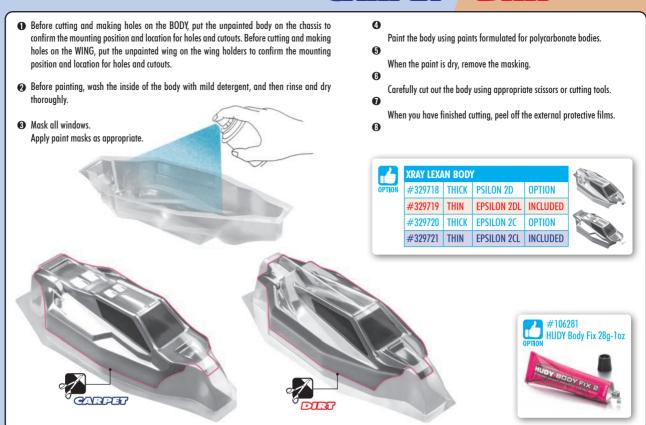


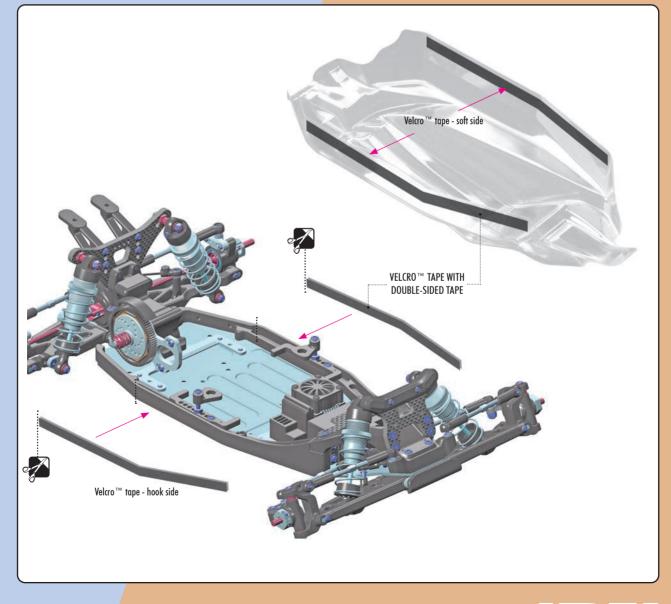








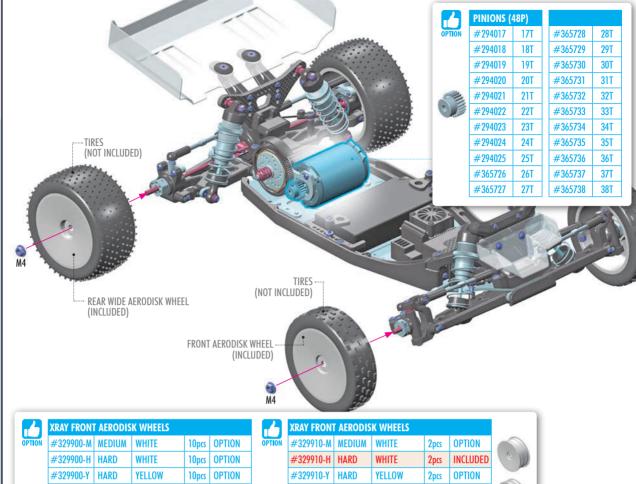














SLIM WHITE

#329904-Y | MEDIUM | SLIM YELLOW | 10pcs | OPTION

10pcs OPTION







HUDY FONT & REAR AERODISK WHEELS

#329904-M MEDIUM



803210 HUDY 1/10 OFF-ROAD WHEEL - 2WD FRONT WHITE (2) 803210-6 HUDY 1/10 OFF-ROAD WHEEL - 2WD FRONT GREEN (2) 803210-0 HUDY 1/10 OFF-ROAD WHEEL - 2WD FRONT ORANGE (2) 803210-Y HUDY 1/10 OFF-ROAD WHEEL - 2WD FRONT YELLOW (2) 803211 HUDY 1/10 OFF-ROAD WHEEL - 2WD FRONT WHITE (10) 803211-G HUDY 1/10 OFF-ROAD WHEEL - 2WD FRONT GREEN (10) 803211-O HUDY 1/10 OFF-ROAD WHEEL - 2WD FRONT ORANGE (10) 803211-Y HUDY 1/10 OFF-ROAD WHEEL - 2WD FRONT YELLOW (10)

803220 HUDY 1/10 OFF-ROAD WHEEL - 2WD FRONT NARROW WHITE (2) 803220-G HUDY 1/10 OFF-ROAD WHEEL - 2WD FRONT NARROW GREEN (2) 803220-O HUDY 1/10 OFF-ROAD WHEEL - 2WD FRONT NARROW ORANGE (2) HUDY 1/10 OFF-ROAD WHEEL - 2WD FRONT NARROW YELLOW (2) HUDY 1/10 OFF-ROAD WHEEL - 2WD FRONT NARROW WHITE (10) 803221-G HUDY 1/10 OFF-ROAD WHEEL - 2WD FRONT NARROW GREEN (10) 803221-0 HUDY 1/10 OFF-ROAD WHEEL - 2WD FRONT NARROW ORANGE (10) 803221-Y HUDY 1/10 OFF-ROAD WHEEL - 2WD FRONT NARROW YELLOW (10)

HUDY FONT & REAR AERODISK WHEELS



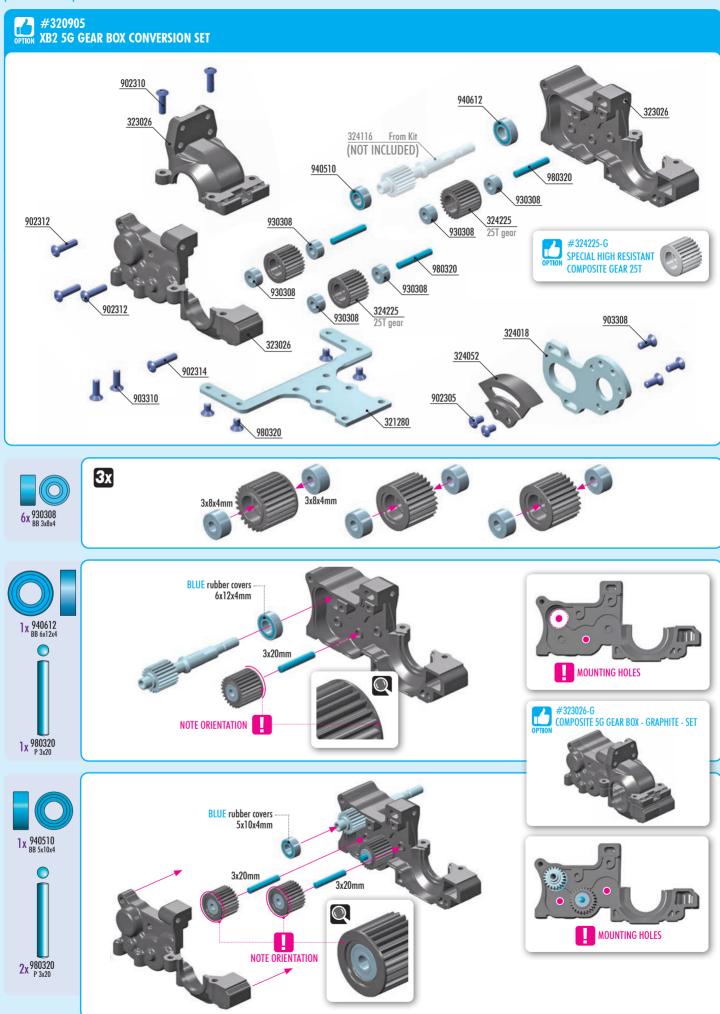
803230 HUDY 1/10 OFF-ROAD WHEEL - 4WD FRONT WHITE (2) 803230-6 HUDY 1/10 OFF-ROAD WHEEL - 4WD FRONT GREEN (2) 803230-0 HUDY 1/10 OFF-ROAD WHEEL - 4WD FRONT ORANGE (2) 803230-Y HUDY 1/10 OFF-ROAD WHEEL - 4WD FRONT YELLOW (2) 803231 HUDY 1/10 OFF-ROAD WHEEL - 4WD FRONT WHITE (10) 803231-G HUDY 1/10 OFF-ROAD WHEEL - 4WD FRONT GREEN (10) 803231-0 HUDY 1/10 OFF-ROAD WHEEL - 4WD FRONT ORANGE (10) 803231-Y HUDY 1/10 OFF-ROAD WHEEL - 4WD FRONT YELLOW (10) HUDY 1/10 OFF-ROAD WHEEL - 2WD/4WD REAR WHITE (2) 803240 803240-G HUDY 1/10 OFF-ROAD WHEEL - 2WD/4WD REAR GREEN (2) 803240-O HUDY 1/10 OFF-ROAD WHEEL - 2WD/4WD REAR ORANGE (2) 803240-Y HUDY 1/10 OFF-ROAD WHEEL - 2WD/4WD REAR YELLOW (2) 803241 HUDY 1/10 OFF-ROAD WHEEL - 2WD/4WD REAR WHITE (10)

803241-G HUDY 1/10 OFF-ROAD WHEEL - 2WD/4WD REAR GREEN (10) 803241-0 HUDY 1/10 OFF-ROAD WHEEL - 2WD/4WD REAR ORANGÈ (10) 803241-Y HUDY 1/10 OFF-ROAD WHEEL - 2WD/4WD REAR YELLOW (10)

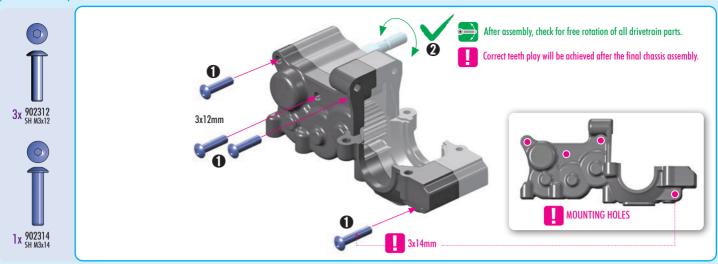




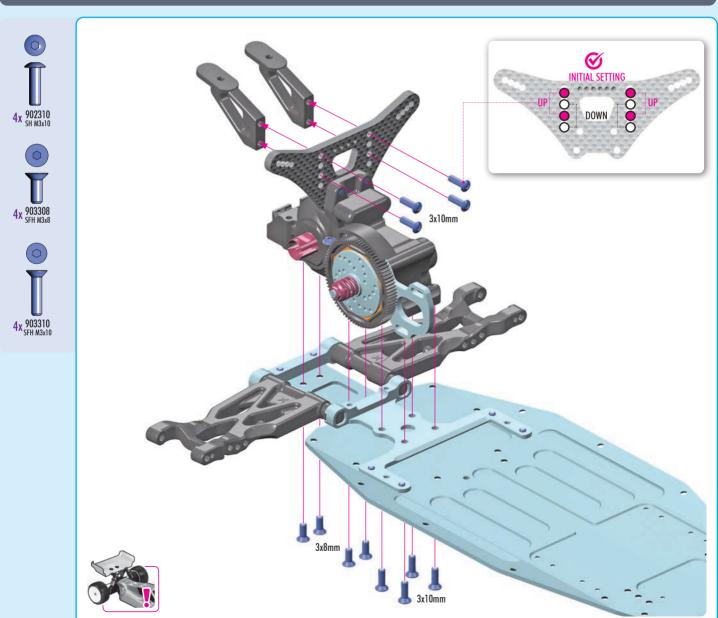
(NOT INCLUDED)



(NOT INCLUDED)







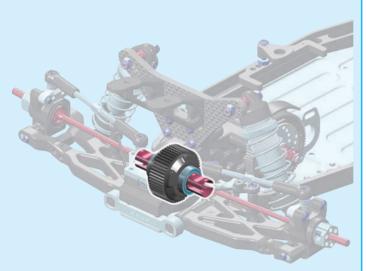
(NOT INCLUDED)





ACTIVE DIFF ON - AND OFF-POWER ACTION		
ACTION	EFFECT	
OFF-POWER	The Active Diff behaves the same as a standard gear differential. Adjustments are made using different viscosities of silicone oils; thinner oils resulting in more off-power steering with a more agressive feel.	
ON-POWER	The main advantage of the Active Diff is felt on-power. The diff action become heavier when throttle is applied, increasing forward drive and stability upon corner exit.	

ACTIVE DIFF SEGMENTS		LOCK ON-POWER	TRACK CONDITIONS	
#325123	60°	OPTION		LOW
#325125	90°	OPTION		MEDIUM
#325127	120°	INCLUDED		HIGH





#335080 Steel differential Pin Hardcoated (2)





#335081 ALU DIFFERENTIAL PIN HARDCOATED (2)





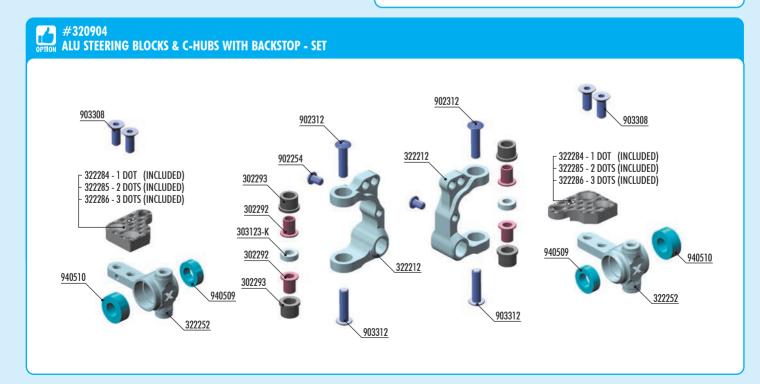
#304932 Graphite Gear Diff Bevel & Satellite Gears (2+4)

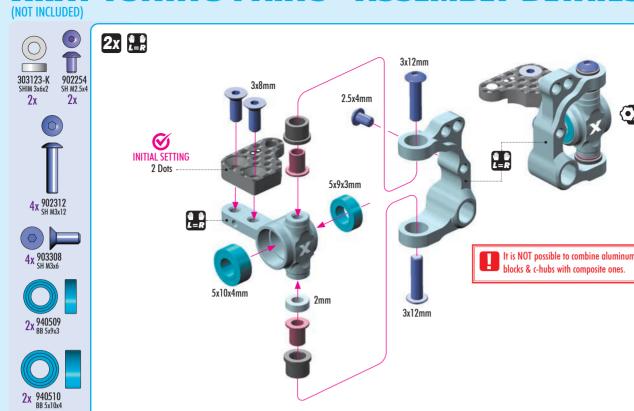


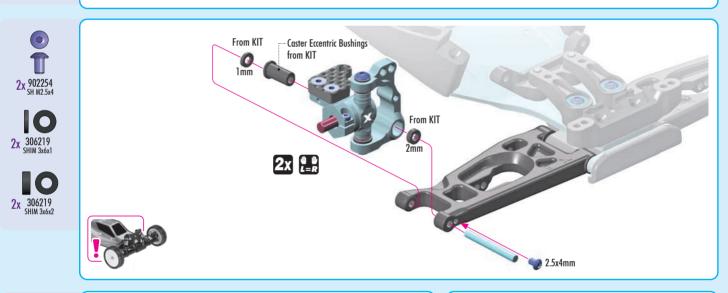
	GEAR DIFF.	CASES	
OPTION	#324912	HARD	INCLUDED
	#324912-G	GRAPHITE	OPTION
	GEAR DIFF. I	PULLEYS	
	#324955	HARD	INCLUDED
	#324955-G	GRAPHITE	OPTION



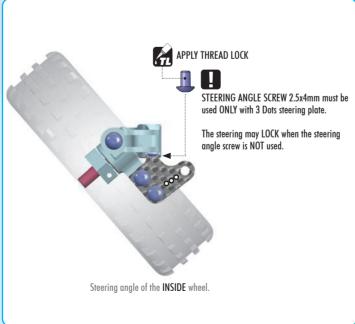


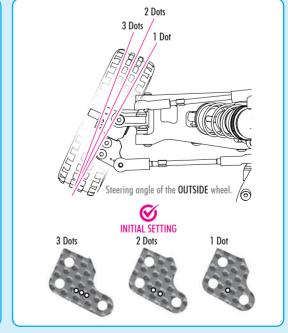












ASSEMBLED VIEW



(NOT INCLUDED)



#323028 Composite 3G Gear Box For Chassis Brace - Set #321283 Alu Flat Chassis Brace for 3G Rear Motor Gear Box #324225 Composite Gear 25T - Graphite



#323029 Composite 3G Gear Box For Chassis Brace - Set #321281 Alu Flat Chassis Brace for 3G Gear Box



#320905 56 Gear Box Conversion - Set

XB2 Gear Box & Chassis Alternatives







XB2 Gear Box Graphite Composite Mixture Alternatives



Composite 3G Gear Box Rear motor position Graphite composite mixture - (NOT AVAILABLE)



#323029-G Composite 3G Gear Box - Graphite - Set















#322046

Alu Front Roll-Center Holder for Bridge Upper Deck - Swiss 7075 T6

- Increases strength & reliability
- Features two-roll center positions
 Premium Swiss 7075 T6 aluminum















Alu Steering Plate for 1-Piece Chassis - Set

- More precise steering
 Increased strenght & reliability
- Premium Swiss 7075 T6 alumi



SET-UP TUNING











Alu Steering Arm for 1-Piece Chassis - Swiss 7075 T6 (2)

- More precise steering
 Increased strenght & reliability
- Premium Swiss 7075 T6 alumi











(NOT INCLUDED)



XB2 Alu Chassis

- CNC-machined one-piece chassis Premium Swiss 7075 T6 aluminum
 Integrated Flat Chassis Brace allows adjustable chassis flex tuning
- Optimized layout for lower C6 and improved weight distribution
 Available in five different chassis types to suit any track condition
 Fits the latest battery types
 Universal for both Dirt & Carpet edition

OTHER VARIANTS:

XB2 Alu Chassis			
Part number	Length		
#321122	Mid Size	2.0mm	
	ased flex designed		

conditions where increased stability is required, primarily for carpet tracks

#321123	Snort	2.0mm
hassis with increa	sed flex, designed for	r medium traction
onditions, primari	ly for dirt surfaces.	

Extra Short #321126 This chassis is specifically designed for use on ultra low-traction and highly slippery track conditions, primarily on dirt surface.

Short #321125 2.5mm Chassis designed for medium - traction conditions, primarily for dirt surfaces.

Mid-Size #321124 2.5mm

Chassis designed for high-traction conditions where increased stability is required, primarily for carpet tracks.















PERFORMANCE WEIGHT SAVIN





#320904

Alu Steering Blocks & C-hubs with Backstop - Set

- Complete set of alu steering blocks and C-hubs Ultra-strong construction Reduces flex For all tra
- Improves consistency
 Premium Swiss 7075 T6 aluminum
- For all track conditions













PERFORMANCE WEIGHT SAVIN



Rear Adjustable Drive Axle LB HUDY Spring Steel™

- Unique length adjustment
 Precise fit
 Highly durable
 Lightweight

SET-UP TUNING

- Extra-long lifespan HUDY Spring Steel™















#980320-T

Titanium Pin 3x20 (2)

- Ultra-precision hand ground for high durability
- More than 40% lighter compared to standard steel pins
- Fits all XB2 gear b











#321211

Alu Front Lower Arm Mount +3°/-3° **Kick-Up Brace - 7075 T6 (3MM)**

- Indegrated +3°/-3° kick-up brace For use with #322317, #322313 or #322314 arm mounts
- Two different alternatives
 Premium Swiss 7075 T6 aluminum

SET-UP TUNING











STRENGTH

(NOT INCLUDED)



Alu Shock Spring Retaining Collar (4)

- CNC-machined shock spring retaining collars
 Premium Swiss 7075 T6 aluminum
 Lowers ride height and center of gravity
 Improves vehicle stability and handling
- · Set includes 4 pieces

ALUMINUM SHOCK COLLARS

Set of lower aluminum shock collars for increased reliability. Stylish and lightweight collars are CNC machined from premium Swiss 7075 T6 aluminum and are strategically lightened. Set of four.





#368022 ALU SHOCK SPRING RET. COLLAR -2mm (4)

















Front Springs **Rear Springs**

Front & Rear Shock Spring-Set

- Conical springs for big bore shocks
 Manually measured, selected & matched
- Matched pairs guarantee equal damping characteristics

OTHER VARIANTS:

Front Springs			
Part number			
#368381	L=42.5mm	1 Dots	
#368382	L=42.5mm	2 Dots	
#368383	L=42.5mm	3 Dots	
#368384	L=42.5mm	4 Dots	
#368385	L=42.5mm	5 Dots	

Rear Springs			
Part number	Length	Marked	
#368481	L=57.5mm	1 Dots	
#368482	L=57.5mm	2 Dots	
#368483	L=57.5mm	3 Dots	
#368484	L=57.5mm	4 Dots	
#368485	L=57.5mm	5 Dots	











HIGHER LOWER #323355 #323356

Alu Multi Adjustable Rear Uprights Swiss 7075 T6

- Alu rear upright with lower or upper arm mounting
 Multi adjustable roll centers and track width

- Increases stability
 Premium Swiss 7075 T6 aluminum
- For high & very high traction tracks where increased stability is needed

OTHER VARIANTS:

Rear Uprights			
Part number	Length	Position	
#323354-M	Medium	Upper	
#323357-M	Medium	Lower	
#323354-H	Hard	Upper	
#323354-G	Graphite	Upper	
#323357-G	Graphite	Lower	
#323355	Alu High	Upper	
#323356	Alu Low	Lower	

UPPER position

We recommend for these types of surfaces and traction:

 DIRT low & high traction • Wet ASTRO

LOWER position

We recommend for these
• CARPET
• Dry ASTRO
• DIRT very high traction nend for these types of surfaces and traction















Alu Shock Cap-Nut With Vent Hole - Big Bore (2)

- Alu upper shock caps for big bore shocks
 Features vent hole
 Increased durability
 Extended life time
 Includes shims for uptravel adjustment
 Premium Swiss 7075 T6 aluminum

















#368033

Precision Ground Shock Piston Blanks 2.5mm - Big Bore (4)

- Precisely grounded for perfectly finished surface for smoother operation
 Made from Delrin
 Shock Piston Blanks for big bore shocks













Precision Ground Shock Piston Blanks 2.0mm - Big Bore (4)

- Precisely grounded for perfectly finished surface for smoother operation
 Made from Delrin
 Shock Piston Blanks for big bore shocks











58

(NOT INCLUDED)



Slipper Eliminator - LCG Ultra-Lightweight - Set

- Increases acceleration
- Eliminates slipper effect
 Specially designed for stock class
 Reduces maximum rotation mass

- Ultra lightweight
 Includes 72T spur gear
 Premium Swiss 7075 T6 aluminum
- Reduces weight of drivetrain

Recommended for stock motor classes. Reduces rotating mass, reduces vehicle weight, and maximizes power throughput by eliminating the slipper clutch.

With the Slipper Eliminator, motor output & driveline impacts are transferred directly through the transmission gears, increasing the potential for transmission gear damage.

OTHER VARIANT:



#325869

Slipper Eliminator Spur Gear 69T / 48P













PERFORMANCE WEIGHT SAVING



Composite C-Hubs

- Increased stability
- More predictable handling
- For all traction alternatives

MEDIUM:

For low traction. More steering on low traction.

For medium traction. More steering, more free in corners.

GRAPHITE:

For high traction. More precise steering, less stopping in corners.

OTHER VARIANTS:

C-Hubs				
Part number	Orientation	Hardness		
#322210-M	Right	Medium		
#322210-H	Right	Hard		
#322210-G	Right	Graphite		
#322220-M	Left	Medium		
#322220-H	Left	Hard		
#322220-G	Left	Graphite		















Alu Wheel Hex Hubs 12mm

- Precision track-width change
 Marked for easy identification
 Additionally drilled

- Black coated
 Premium Swiss 7075 T6 aluminum
- · Liahtweight desain

OTHER VARIANTS:

Alu Wheel Hex Hubs 12mm			
Part number	Size	Slots	
#365360	+4,5mm	6	
#365359	+3,75mm	5	
#365358	+3.0mm	4	
#365357	+2,25mm	3	
#365356	+1,5mm	2	
#365355	+0,75mm	1	
#365353	+0mm	0	
#365354	-0.75mm	Lightweight	
#365361	-1,25mm	Lightweight	













PERFORMANCE WEIGHT SAVING



Graphite Battery Backstop 3.5mm - Lower (2)

- · Higher strength
- · Lightweight design
- Premium-grade graphite material
 Direct replacement for composite backstop

















#324017

Graphite Motor Plate - LCG 3.0mm

- Ultra-lightweight for better handling
 Thickness: 3.0 mm
- Low Center of Gravity (LCG) layout
 Naturally absorbs vibrations from the motor













#364132

Slipper Clutch Pad Black Medium (2)

- Provides stronger and more consistent slip control under power
 Ideal for carpet, turf, and grooved clay where grip is high
 Reduces wheel spin and allows better throttle modulation
 Handles longer runs without glazing or fading













(NOT INCLUDED)



Rear Suspension Arms

- Additional inside shock mounting position to expand set-up options
 Shock mounting set-up alternatives for every condition
 Different hardness available for additional tunning options

Standard Rear Arms			
Part number	Orientation	Hardness	
#363114-M	Right	Medium	
#363124-M	Left	Medium	
#363114-H	Right	Hard	
#363124-H	Left	Hard	
#363114-G	Right	Graphite	
#363124-G	Left	Graphite	

Disengaged Rear Arms			
Part number	Orientation	Hardness	
#323113-M	Right	Medium	
#323123-M	Left	Medium	
#323113-H	Right	Hard	
#323123-H	Left	Hard	
#323113-G	Right	Graphite	
#323123-G	Left	Graphite	















В



Front Suspension Arms

- Improves the strength to avoid crash related failures
 Different hardness arms are available for additional turning options

Front LSM Suspension Arms - SHORT			
Part number	Orientation	Hardness	
#323113-M	Right	Medium	
#323123-M	Left	Medium	
#323113-H	Right	Hard	
#323123-H	Left	Hard	
#323113-G	Right	Graphite	
#323123-G	Left	Graphite	

Front LSM Suspension Arms - LONG			
		Hardness	
#322117-M	Right	Medium	
#322127-M	Left	Medium	
#322117-H	Right	Hard	
#322127-H	Left	Hard	
#322117-G	Right	Graphite	
#322127-G	Left	Graphite	











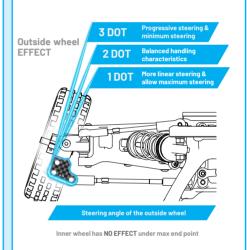


Carbon Extension for Steering Block

- Adjusts aggressivity of the car
 Increases and decreases overall steering
 Easy Ackermann position adjustment
 For all surfaces and track conditions

OTHER VARIANTS:

Steering Block Extensions			
#322294	1 Dot		
#322296	3 Dots		















#322312

Brass 46g Front Lower Arm Mount 0° - V2

- 46g adds weight
 Integrated kick-up
 Fine set-up adjustment
 Optional front arm mounts

















Alu Front Lower Arm Mount +3°/-3° - Swiss 7075 T6

- Makes the car more stable
- Increases on-power steering
 Allows to increase or decrease the kick-up

- Premium SWISS 7075 T6 aluminum













Alu Front Lower Arm Mount 0° **Swiss 7075 T6**

- Makes the car more stable
- Two different alternatives
 Premium SWISS 7075 T6 aluminum













(NOT INCLUDED)



XRAY XB2 Active Differential - Narrow - Set

- Improves speed
 Improves handling
 Increases the forward traction
 Improves stability
 Makes the car easier to drive













DIFF BEVEL & SATELLITE GEARS FOR O-RINGS - SET

- Diff gears with self-locking effect
- Improved consistency
 Suitable for higher traction tracks
- More forward traction



#304932









SET-UP TUNING STRENGTH

PERFORMANCE WEIGHT SAVING



#324912-G

Composite Gear Differential Cover - LCG - Narrow - Graphite

- Special graphite composite mixture
 For the narrower LCG differential
- Lightweight
 More durable
 Higher temperature resistance















Higher wear resistance





PERFORMANCE WEIGHT SAVING



#324955-G

Gear Diff Case with 53T Pulley LCG - Narrow - Graphite

- Special graphite composite mixture
 For the narrower LCG differential

- Lightweight
 More durable
 Higher temperature resistance













Higher wear resistance



SET-UP TUNING STRENGTH





Graphite Gear Diff Bevel &

Satelitte Gears (2+4) - Low

• Graphite differential gears 2 bevel + 4 satellite gears Varaphice University and Section 2. Made from lightweight
 Ultra-strong graphite composite material
 Enhances drivetrain efficiency and reduces gear wear
 Minimizes risk of tooth stripping or breakage under stress







PERFORMANCE WEIGHT SAVING



#335080

Steel Differential Pin (2)

- Long life Extra durable



















#335081

Alu Differential Pin - Hardcoated (2)

- Long life Extra durable

- CNC-machined
 Alu hard coated pins
- Strong
 Premium Swiss 7075 T6 aluminum





Ceramic Ball 2.4mm (12)

- Significant improvement of differential lifespan
 Extra-hard SI3N4 silicone nitride
- Reduces friction & vibration
- Premium-quality
 Higher RPM capabilities



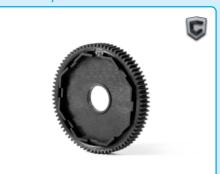








(NOT INCLUDED)



Composite 3-Pad Slipper Clutch Spur Gear - 48P

- Exclusive secret blend of composite material
 Precision-molded
 Extra-strong

- Lightweight
 Stamped for easy identification

OTHER VARIANTS:

Composite Spur Gears			
Part number	Gearing		
#365872	72T		
#365875	75T		
#365878	78T		
#365881	81T		



#320905

XB2 5G Gear Box Conversion Set













- Huge improvement in performance & handling in middle to high traction conditions
 Incredible handling making the car flatter & easier to drive
 Increases speed in & out of the corners



#326181

35g Added weight
 Stainless steel material

35g







© 🔁 😲





#321255-G

Composite Elevated Side Braces L+R - Long - Graphite

- Specially-formulated graphite composite mixture
 For high-traction conditions
- Improves stability
 Makes car more predictable

























Inserted under battery directly on chassis



Stainless Steel Battery Weight



• Lower cq





- Stainless steel weight under servo
 Including hex screws 110 SFH M2x3mm (#913203)
 Easy installation
 Stainless steel weights 13g



SET-UP TUNING







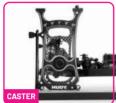


HUDY SET-UP TOOL & ACCESSORIESS

(NOT INCLUDED)



















#108901

HUDY Set-Up Station for 1/10 Off-road

- Precision track-width change
 Must-have set-up tool for a complete suspension geometry adjustment
 Quick and straight-forward "one screw" assembly/disassembly
 Backlash-free, wobble-free mounting
 Fully ball-bearing equipped set-up stands (12 high-precision ball-bearings)
 Ultra-smooth, ultra-precise movement and operation
- CNC-machined from high-grade premium Swiss 7075 T6 aluminum
 CNC-machined upside measure plate form tough acrylic plastic
 All components have prevision engraving for instant & reliable readings
 Carrying box with foam inserts for safe storage & transportation
- High-quality, super precision & long life
 Industry standard for set-up tools since 1992











SET-UP TUNING STRENGTH

PERFORMANCE WEIGHT SAVING



#293421(23T) #293422 (25T)

Alu Clamp Steering Servo Horn Extended 8mm

- Increase reliability & strength
 Extended 8mm mounting arm

- More precise steering
 Clamp design for easy assembly
 Eliminates usage of additional shims
- Drilled & tapped with 3mm thread Premium Swiss 7075 T6 aluminum

















#104004

HUDY Air Vac - Vacuum Pump 1/10 Off-Road - V2

- Removes air from shock absorbers & diffs in seconds
 Ultra compact & handy design
 Includes holders for shock absorbers & differential
 Included 800mm connecting cable with gold-plated banana plugs
 Premium hard case for safe storage & transport



SET-UP TUNING STRENGTH











HUDY Titanium Super-Low Head Screw - Centering Diameter

- High durability
 Made by HUDY
 Made in Europe
- Titanium material
 Super lightweight
 Centering Diameter on Super-Low Head Screws
 Ultra-precise
 Long life

OTHER VARIANTS:

Part number	Length	Pcs	lmage
#908305-T	5mm	10	
#908306-T	6mm	10	
#908308-T	8mm	10	
#908310-T	10mm	10	
#908312-T	12mm	10	
#908314-T	14mm	4	
#908316-T	16mm	4	
#908318-T	18mm	4	
#908320-T	20mm	4	
#908322-T	22mm	4	
#908325-T	25mm	4	ļ=====



HUDY Titanium Flat Head Screw

OTHER VARIANTS:

Part number	Length	Pcs	lmage
#903305-T	5mm	10	
#903306-T	6mm	10	=
#903308-T	8mm	10	
#903310-T	10mm	10	
#903312-T	12mm	10	-
#903316-T	16mm	4	



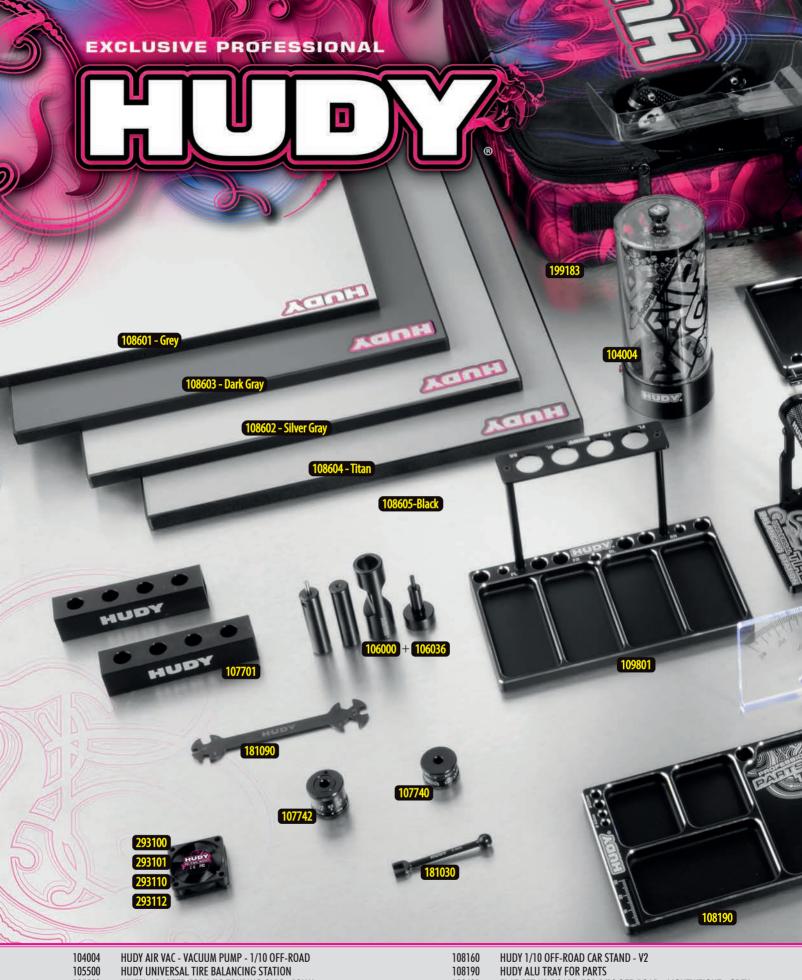












	104004	HUDY AIR VAC - VACUUM PUMP - 1/10 OFF-ROAD	108160	HUDY 1/10 OFF-ROAD CAR STAND - V2
	105500	HUDY UNIVERSAL TIRE BALANCING STATION	108190	HUDY ALU TRAY FOR PARTS
	105520	WHEEL ADAPTER FOR 1/10 TOURING CARS - 12MM	108601	FLAT SET-UP BOARD FOR 1/10 OFF-ROAD - LIGHTWEIGHT - GREY
	106000	HUDY DRIVE 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
	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
64	107855	HUDY PIT LED	109840	HUDY ALU TRAY FOR 1/10 OFF-ROAD DIFF ASSEMBLY
٠.	107880	CHASSIS BALANCING TOOL (2)	109860	HUDY ALU TRAY FOR SET-UP SYSTEM



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 LIMITED EDITION - ALLEN WRENCH + BALL REPL. TIP # 2.0MM 132045 199270 **HUDY LIPO SAFETY BAG** LIMITED EDITION - SLOTTED SCREWDRIVER # 3.0MM - LONG 153055 298100 **HUDY TIN ROUND BOX 80X30MM** 175535 LIMITED EDITION - SOCKET DRIVER # 5.5MM 293100 HUDY ALU RC FAN 30MM - BOTTOM MOUNT 2 HOLE 177035 LIMITED EDITION - SOCKET DRIVER # 7.0MM HUDY ALU RC FAN 30MM - SIDE MOUNT 2 HOLE 293101 181030 HUDY SPRING STEEL TURNBUCKLE WRENCH 3 MM HUDY BRUSHLESS RC FAN 30MM - WITH EXTERNAL SOLDERING TABS 293110 181090 HUDY SPECIAL TOOL FOR TURNBUCKLES & NUTS 293112 HUDY BRUSHLESS RC FAN 30MM - WITH INTERNAL SOLDERING TABS 183011 **HUDY PROFESSIONAL MULTI TOOL**





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. 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.
- 3 Spray the bearing on both sides again.

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

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

- 3 Blow both sides of the bearing dry with compressed air to make sure particles come out.
- Hold the inner part of the bearing with my left thumb/forefinger and spin it to make sure it spins free without any abnormal vibrations or sounds.
- 3 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 #106230



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

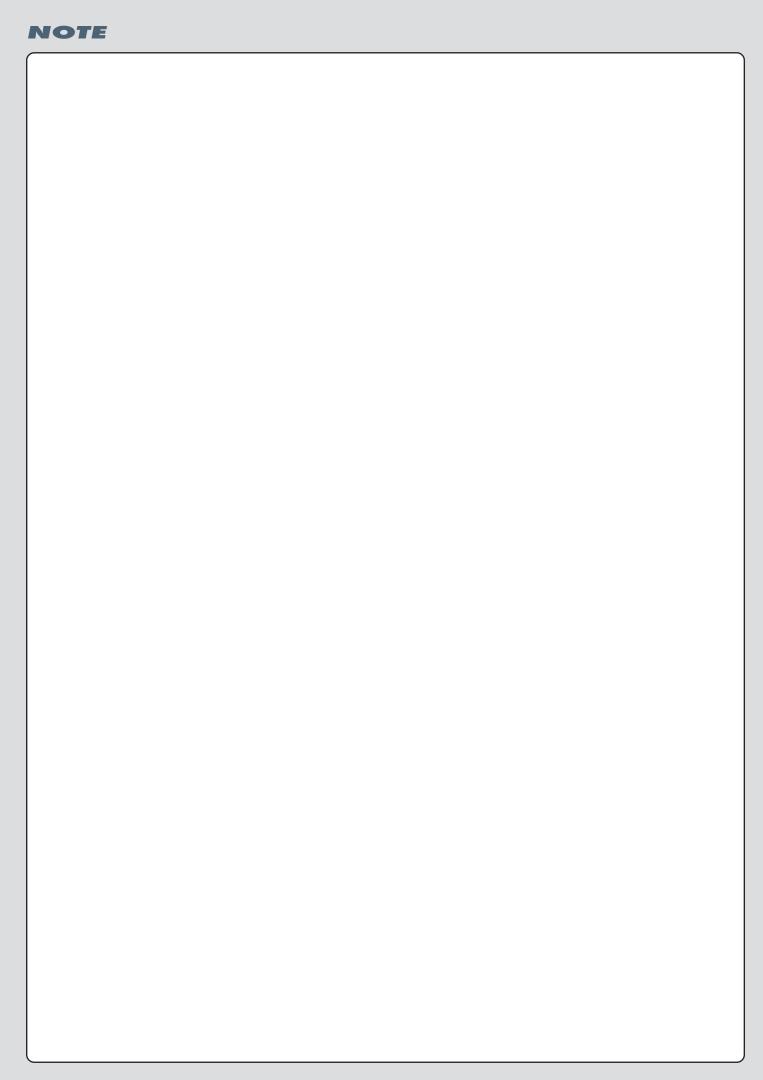


#106213 HUDY JOINT GREASE

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.



www.teamxray.com

XRAY EUROPE

XRAY, K VÝSTAVISKU 6992, 91101 TRENCIN, SLOVAKIA, EUROPE PHONE: +421-32-740 11 00, FAX: +421-32-740 11 09, info@teamxray.com

XRAY USA

RC AMERICA, 2030 Century Center Blvd #15, Irving, TX 75062, USA PHONE: 214-744-2400, FAX: 214-744-2401, xray@rcamerica.com











