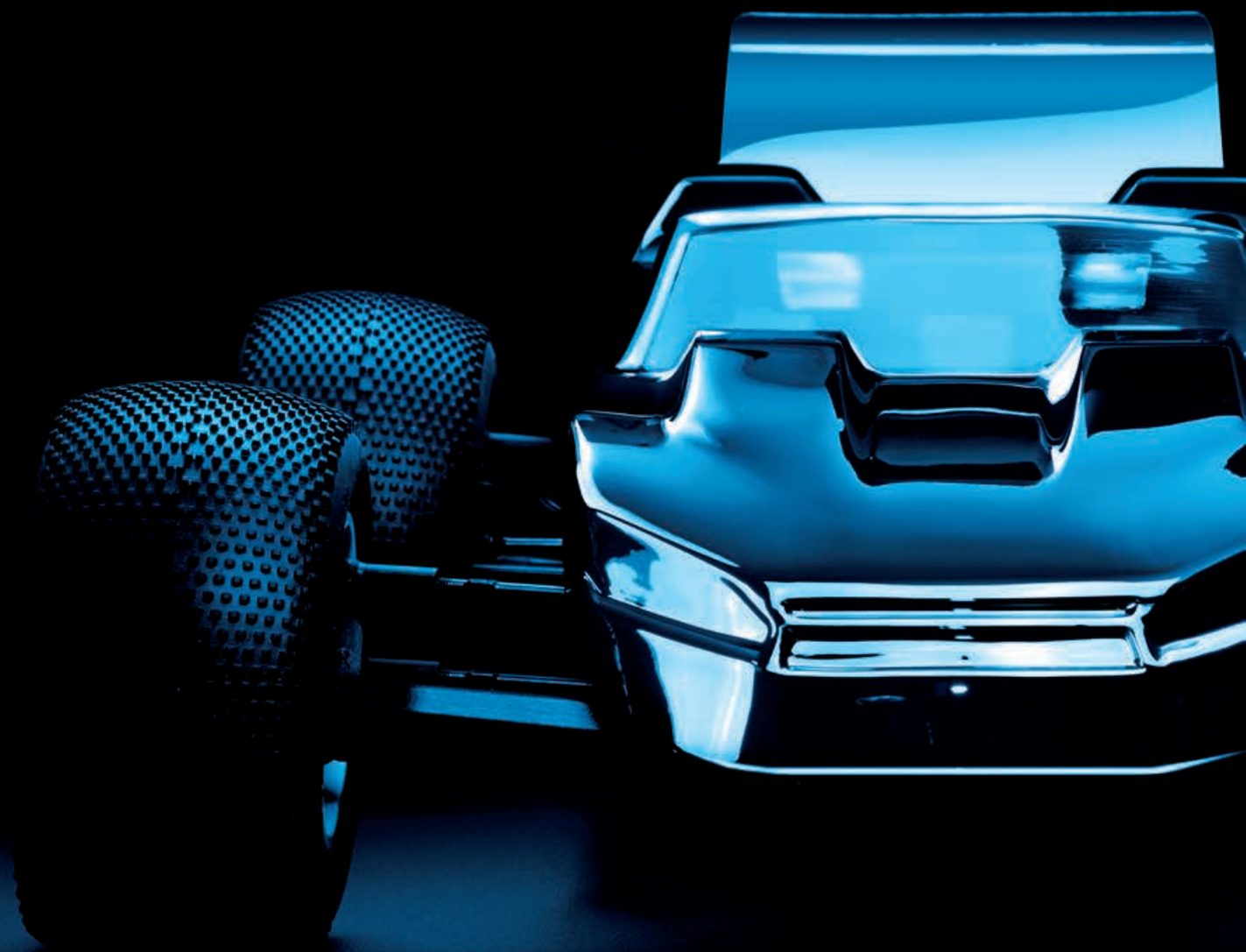


1/10 LUXURY ELECTRIC STADIUM TRUCK

XRAY XT2



INSTRUCTION MANUAL
FOR XT2C'28 & XT2D'28 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 warranty immediately.

Improper operation may cause personal and/or property damage. XRAY and its distributors have no control over damage resulting from shipping, improper construction, or improper usage. XRAY assumes and accepts no responsibility for personal and/or property damages resulting from the use of improper building materials, equipment and operations. By purchasing any item produced by XRAY, the buyer expressly warrants that he/she is in compliance with all applicable federal, state and local laws and regulation regarding the purchase, ownership and use of the item. The buyer expressly agrees to indemnify and hold harmless XRAY for all claims resulting directly or indirectly from the purchase, ownership or use of the product. By the act of assembling or operating this product, the user accepts all resulting liability. If the buyer is NOT prepared to accept this liability, then he/she should return this kit in new, unassembled, and unused condition to the place of purchase.



IMPORTANT NOTES – GENERAL

- This product is NOT suitable for children under 16 years of age without the direct supervision of a responsible and knowledgeable adult.
 - Carefully read all manufacturers warnings and cautions for any parts used in the construction and use of your model.
 - Assemble this kit only in places away from the reach of very small children.
 - First-time builders and users should seek advice from people who have building experience in order to assemble the model correctly and to allow the model to reach its performance potential.
 - Exercise care when using tools and sharp instruments.
 - Take care when building, as some parts may have sharp edges.
 - Keep small parts out of reach of small children. Children must NOT be allowed to put any parts in their mouth, or pull vinyl bag over their head.
 - Read and follow instructions supplied with paints and/or cement, if used (NOT included in kit).
 - Immediately after using your model, DO NOT touch equipment on the model such as the motor and speed controller, because they generate high temperatures. You may seriously burn yourself seriously touching them.
 - Follow the operating instructions for the radio equipment at all times.
 - DO NOT put fingers or any objects inside rotating and moving parts, as this may cause damage or serious injury as your finger, hair, clothes, etc. may get caught.
 - Be sure that your operating frequency is clear before turning on or running your model, and never share the same frequency with somebody else at the same time. Ensure that others are aware of the operating frequency you are using and when you are using it.
 - Use a transmitter designed for ground use with RC cars. Make sure that no one else is using the same frequency as yours in your operating area. Using the same frequency at the same time, whether it is driving, flying or sailing, can cause loss of control of the RC model, resulting in a serious accident.
 - Always turn on your transmitter before you turn on the receiver in the car. Always turn off the receiver before turning your transmitter off.
 - Keep the wheels of the model off the ground when checking the operation of the radio equipment.
 - Disconnect the battery pack before storing your model.
 - When learning to operate your model, go to an area that has no obstacles that can damage your model if your model suffers a collision.
 - Remove any sand, mud, dirt, grass or water before putting your model away.
 - If the model behaves strangely, immediately stop the model, check and clear the problem.
 - To prevent any serious personal injury and/or damage to property, be responsible when operating all remote controlled models.
 - The model car is NOT intended for use on public places and roads or areas where its operation can conflict with or disrupt pedestrian or vehicular traffic.
 - Because the model car is controlled by radio, it is subject to radio interference from many sources that are beyond your control. Since radio interference can cause momentary loss of control, always allow a safety margin in all directions around the model in order to prevent collisions.
 - DO NOT use your model:
 - Near real cars, animals, or people that are unaware that an RC car is being driven.
 - In places where children and people gather
 - In residential districts and parks
 - In limited indoor spaces
 - In wet conditions
 - In the street
 - In areas where loud noises can disturb others, such as hospitals and residential areas.
 - At night or anytime your line of sight to the model may be obstructed or impaired in any way.
- To prevent any serious personal injury and/or damage to property, please be responsible when operating all remote controlled models.

IMPORTANT NOTES – ELECTRICAL

- Insulate any exposed electrical wiring (using heat shrink tubing or electrical tape) to prevent dangerous short circuits. Take maximum care in wiring, connecting and insulating cables. Make sure cables are always connected securely. Check connectors for if they become loose. And if so, reconnect them securely. Never use 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 exceed 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

Short Socket Wrench # 5.5mm
(HUDY #170004)

Side Cutters
(HUDY #189010)

Pocket Hobby Knife (HUDY #188981)

Special Tool for turnbuckles, nuts (HUDY #181090)

Turnbuckle Wrench 3.5mm (HUDY #181035)

Turnbuckle Wrench 3.5mm (HUDY #181036)

HUDY Tweezers Straight (HUDY #188970)

HUDY Tweezers Curved (HUDY #188971)

Allen 1.5mm (#111545 - HUDY EXCLUSIVE Limited Edition)

Allen 2.0mm (#112045 - HUDY EXCLUSIVE Limited Edition)

Arm Reamer 3.0mm (#107643 - HUDY EXCLUSIVE Limited Edition)

Socket 5.5mm (#175535 - HUDY EXCLUSIVE Limited Edition)

Socket 7.0mm (#177035 - HUDY EXCLUSIVE Limited Edition)

Reamer (#107602 - HUDY EXCLUSIVE Limited Edition)

Scissors (HUDY #188990)

Professional Multi Tool
(HUDY #183011)

Ball Joint Wrench (HUDY #181110)

EQUIPMENT INCLUDED

300cSt (#106330) HUDY Premium Silicone Oils CARPET DIRT	400cSt (#106340) HUDY Premium Silicone Oils CARPET DIRT	10.000cSt (#106510) HUDY Premium Silicone Oils CARPET	(HUDY #106212) Super Diff Grease ! MIX THOROUGHLY BEFORE USE. DIRT	(HUDY #106210) Premium Graphite Grease ! MIX THOROUGHLY BEFORE USE. CARPET DIRT
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EQUIPMENT REQUIRED

Transmitter	Receiver	Speed Controller	Steering Servo	Electric Motor & Pinion Gear with Setscrew	LiPo Battery	
Battery Charger	Double-sided Tape (HUDY #107875) OPTION	Lexon™ Paint	4x Tires & Inserts	Bearing Oil (HUDY #106230) OPTION	Threadlock	CA glue

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.



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

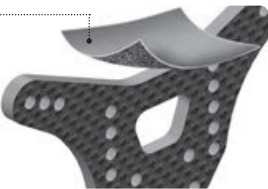
Follow this Tech Tip to prepare the carbon parts. Sand the edges with sandpaper, and then seal the edges with CA glue to reinforce them and help prevent delamination.

Prepare all Carbon Parts:

- Front shock tower
- Rear shock tower

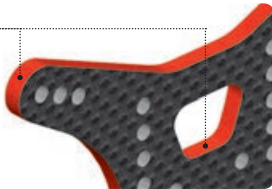
Fine sandpaper

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



CA GLUE

Apply CA glue to all edges of the carbon parts.



MANUAL PAGE MARKING

MANUAL STEPS ONLY FOR DIRT

1. BALL DIFFERENTIAL

DIRT

SAG

MANUAL STEPS ONLY FOR CARPET

1. GEAR DIFFERENTIAL

CARPET

SAG

MANUAL DUAL STEPS FOR CARPET AND DIRT

3. REAR DRIVETRAIN

CARPET

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 to other parts.



TIP

TIPS FOR GEAR DIFFERENTIAL

LOW-MEDIUM TRACTION	5.000cSt
MEDIUM-HIGH TRACTION	10.000cSt
HIGH TRACTION	20.000cSt

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

HUDY PREMIUM SILICONE OILS

FOR SHOCK ABSORBERS

#106321	200cSt - 100ml	OPTION
#106326	250cSt - 100ml	OPTION
#106331	300cSt - 100ml	INCLUDED
#106336	350cSt - 100ml	OPTION
#106338	375cSt - 100ml	OPTION
#106341	400cSt - 100ml	INCLUDED
#106343	425cSt - 100ml	OPTION
#106346	450cSt - 100ml	OPTION
#106348	475cSt - 100ml	OPTION
#106351	500cSt - 100ml	OPTION
#106353	525cSt - 100ml	OPTION
#106356	550cSt - 100ml	OPTION
#106358	575cSt - 100ml	OPTION
#106361	600cSt - 100ml	OPTION

SILICONE OILS for GEAR DIFF

#106510	10.000cSt - 50ml	INCLUDED
#106492	11.000cSt - 50ml	OPTION
#106512	12.000cSt - 50ml	OPTION
#106513	13.000cSt - 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	OPTION
#106560	60.000cSt - 50ml	OPTION
#106580	80.000cSt - 50ml	OPTION
#106610	100.000cSt - 50ml	OPTION
#106615	150.000cSt - 50ml	OPTION

HUDY PREMIUM SILICONE OILS



HUDY TITANIUM 5.4mm BALL STUDS

Ø 5.4mm



HUDY TITANIUM 4.9mm BALL STUDS

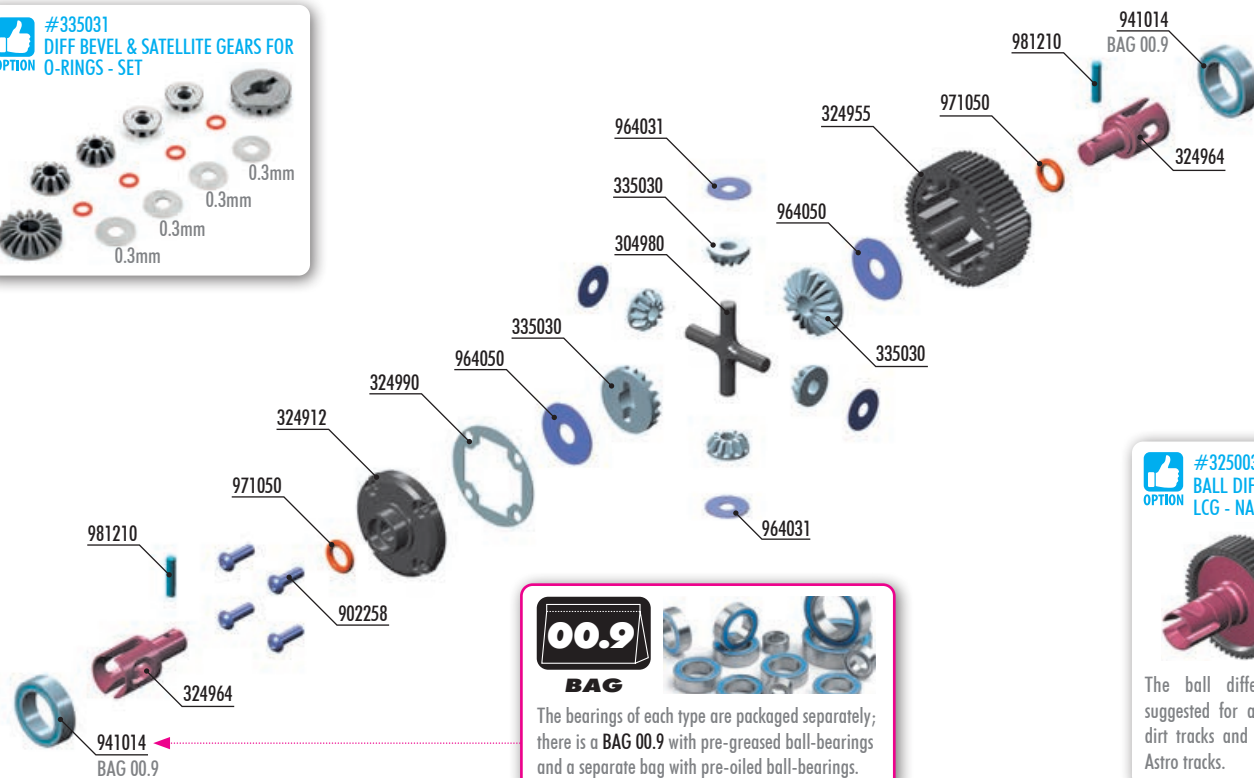
Ø 4.9mm



TITANIUM MATERIAL SUPER LIGHTWEIGHT ULTRA-PRECISE
LONG LIFE HIGH DURABILITY MADE BY HUDY
MADE IN EUROPE



CARPET



The ball differential is suggested for all types of dirt tracks and for bumpy Astro tracks.



GEAR DIFE. CASES

#324912	HARD	INCLUDED
#324912-G	GRAPHITE	OPTION
GEAR DIFE PULLEYS		
#324955	HARD	INCLUDED
#324955-G	GRAPHITE	OPTION



#304932

GRAPHITE GEAR DIFF BEVEL & SATELLITE GEARS (2+4)



#335080

STEEL DIFFERENTIAL PIN HARDCOATED (2)



#335081

ALU DIFFERENTIAL PIN HARDCOATED (2)



#325101 XRAY XB2 ACTIVE DIFF NARROW SET INCLUDING
#325127 ACTIVE DIFF SEGMENT 120°

Adjustable Active Diff improves speed and handling. Different angled segments allow the diff gears to engage on-power to increase the forward traction, making it faster and easier to drive.



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 aggressive 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

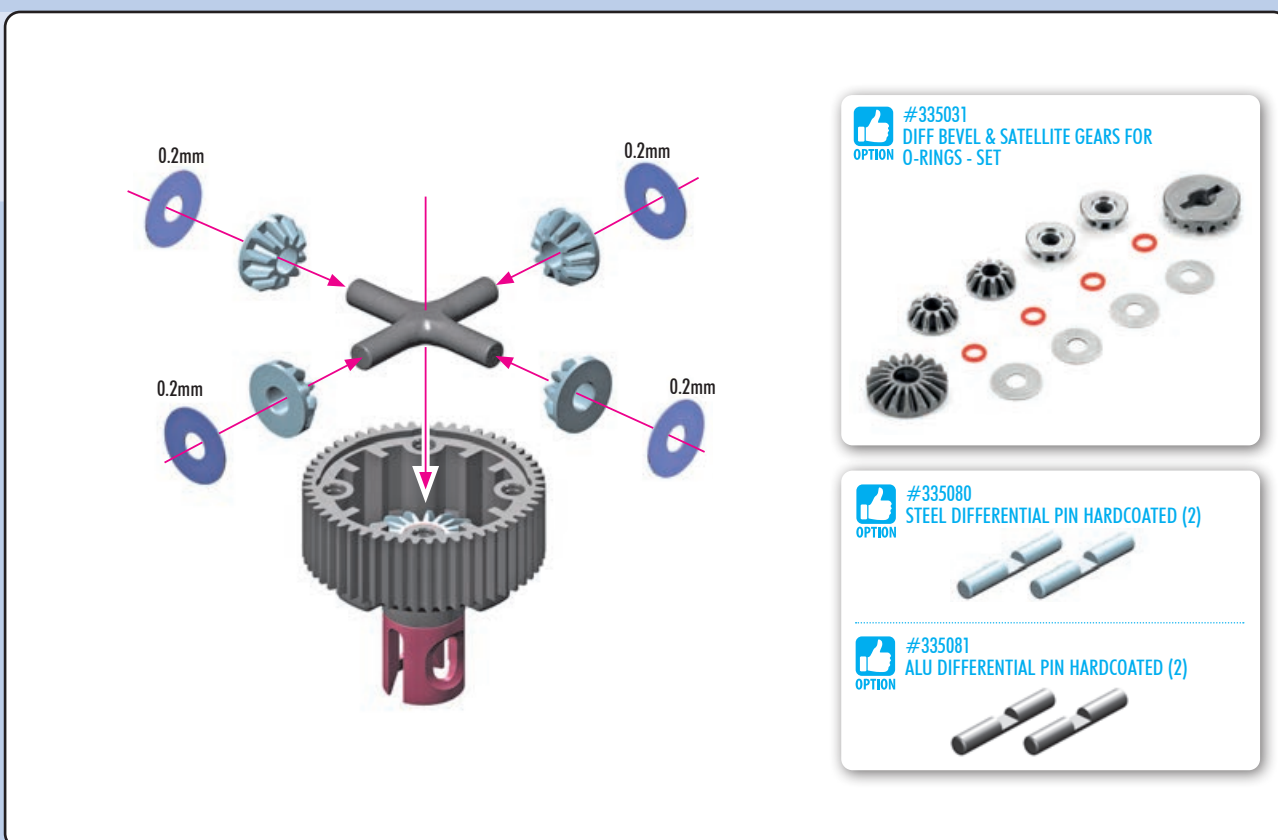
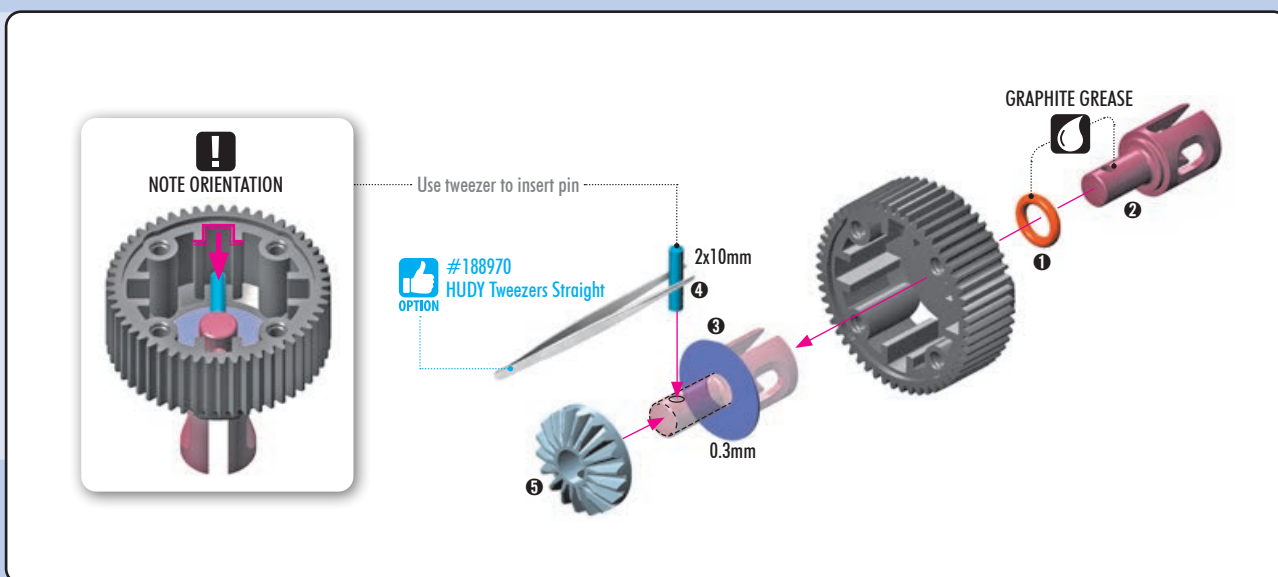
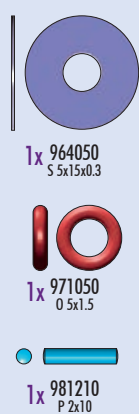
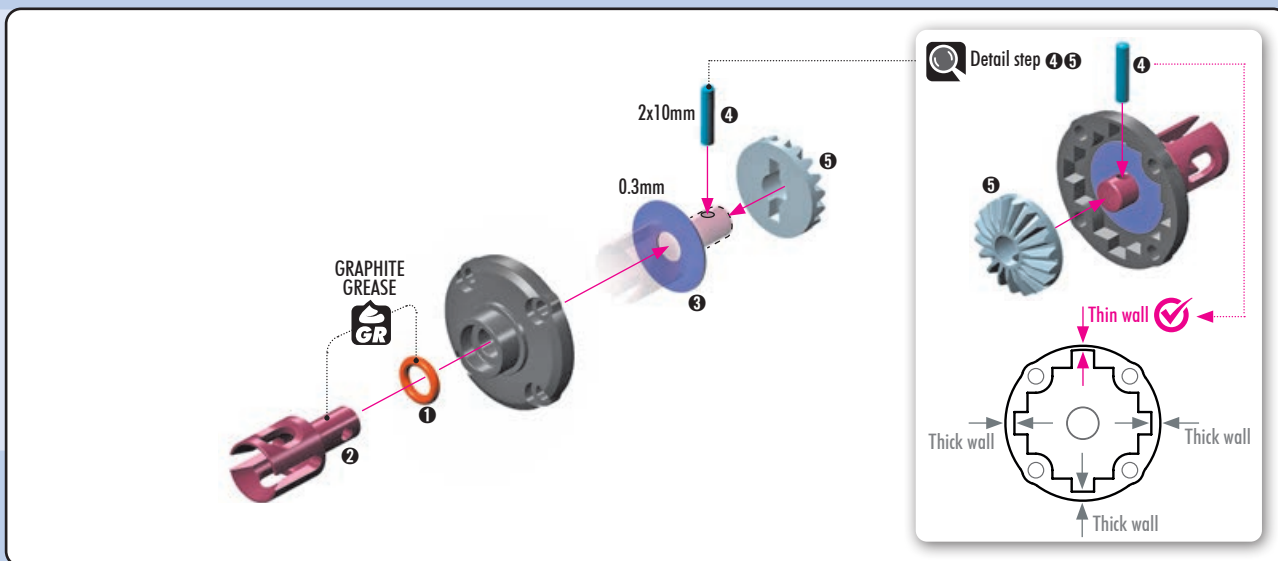
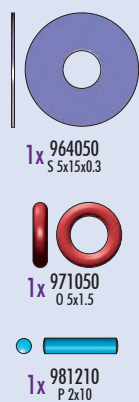


01

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

902258	HEX SCREW SH M2.5x8 (10)
941014	BALL-BEARING 10x15x4 RUBBER SEALED - GREASE (2)
964031	WASHER S 3.5x10x0.2 (10)
964050	WASHER S 5x15x0.3 (10)
971050	SILICONE O-RING 5x1.5 (10)
981210	PIN 2x10 (10)

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



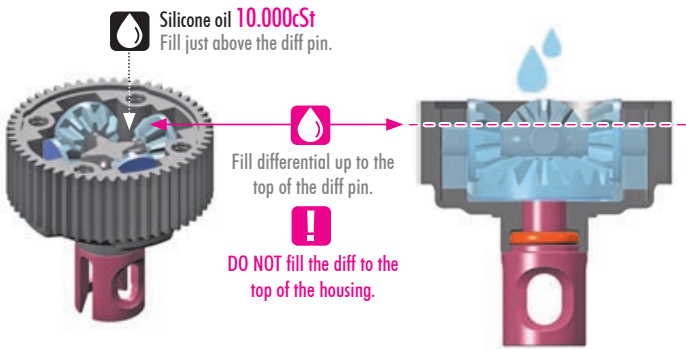
1. GEAR DIFFERENTIAL



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
OPTION
- #107866
HUDY Professional Digital Pocket Scale 3000g/0.1g
OPTION



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.

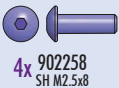
TIP TIPS FOR GEAR DIFFERENTIAL

- LOW-MEDIUM TRACTION 5.000cSt
- MEDIUM-HIGH TRACTION 15.000cSt

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



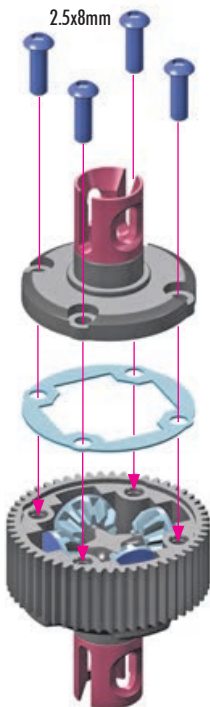
HUDY ULTIMATE SILICONE OILS			
#106440	4.000cSt - 50ml	OPTION	
#106450	5.000cSt - 50ml	OPTION	
#106460	6.000cSt - 50ml	OPTION	
#106470	7.000cSt - 50ml	OPTION	
#106480	8.000cSt - 50ml	OPTION	
#106490	9.000cSt - 50ml	OPTION	
#106510	10.000cSt - 50ml	INCLUDED	
#106492	11.000cSt - 50ml	OPTION	
#106512	12.000cSt - 50ml	OPTION	
#106513	13.000cSt - 50ml	OPTION	
#106515	15.000cSt - 50ml	OPTION	
#106520	20.000cSt - 50ml	OPTION	
#106530	30.000cSt - 50ml	OPTION	
#106540	40.000cSt - 50ml	OPTION	
#106550	50.000cSt - 50ml	OPTION	
#106560	60.000cSt - 50ml	OPTION	
#106580	80.000cSt - 50ml	OPTION	



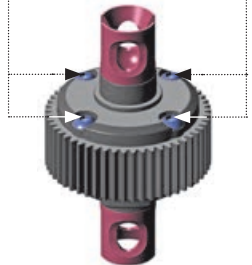
4x 902258
SH M2.5x8



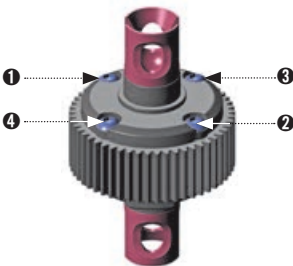
2x 941014
BB 10x15x4



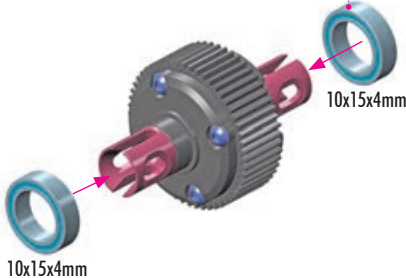
Install the screws equally but DO NOT tighten them completely.



Finish tightening in this order.



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.



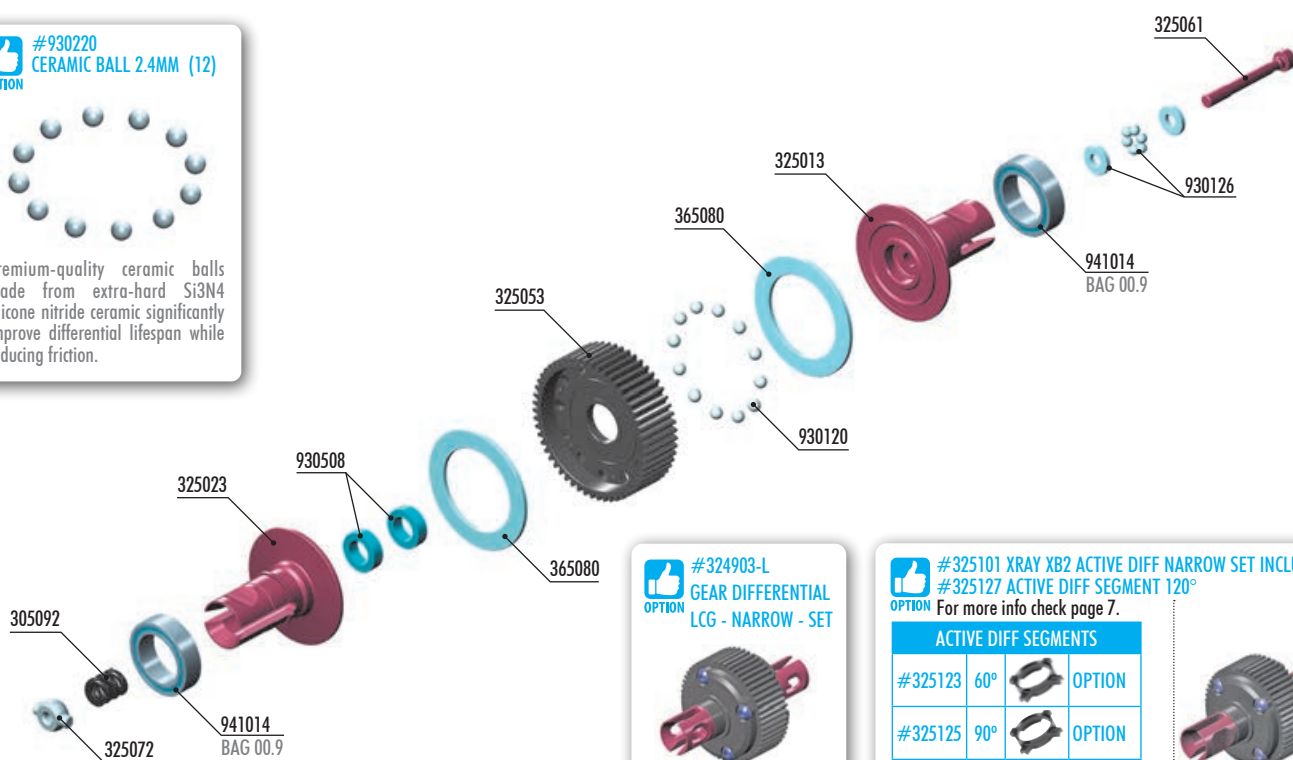
1. BALL DIFFERENTIAL

DIRT

#930220
CERAMIC BALL 2.4MM (12)
OPTION



Premium-quality ceramic balls made from extra-hard Si3N4 silicone nitride ceramic significantly improve differential lifespan while reducing friction.



#324903-L
GEAR DIFFERENTIAL
LCG - NARROW - SET
OPTION



The gear differential is suggested for medium to high traction conditions as it increases on-power steering.

#325101 XRAY XB2 ACTIVE DIFF NARROW SET INCLUDING
#325127 ACTIVE DIFF SEGMENT 120°
OPTION For more info check page 7.

ACTIVE DIFF SEGMENTS			
#325123	60°		OPTION
#325125	90°		OPTION
#325127	120°		OPTION



Adjustable Active Front Diff improves speed and handling. Different angled segments allow the diff gears to engage on-power to increase the forward traction, making it faster and easier to drive.

BAG

01

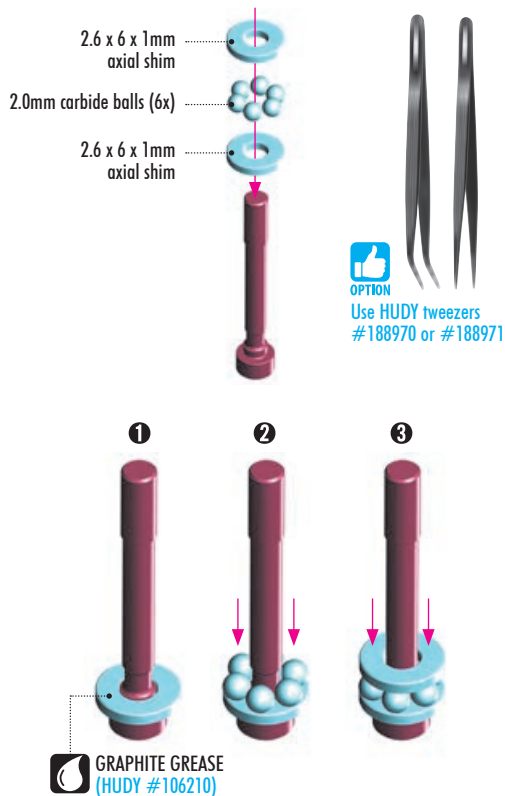
- 305092 BALL DIFFERENTIAL SPRING
- 325003 BALL ADJUSTABLE DIFFERENTIAL - LCG - SET - HUDY SPRING STEEL™
- 325013 BALL DIFFERENTIAL SHORT OUTPUT SHAFT - LCG - HUDY SPRING STEEL™
- 325023 BALL DIFFERENTIAL LONG OUTPUT SHAFT - LCG - HUDY SPRING STEEL™
- 325053 COMPOSITE BALL DIFFERENTIAL GEAR 53T
- 325061 SCREW FOR BALL DIFF ADJUSTMENT - SPRING STEEL™

- 325072 ALU BALL DIFFERENTIAL NUT
- 365080 DIFF WASHER 17 x 24.5 x 1 (2)
- 930120 CARBIDE BALL 2.4mm FOR BALL DIFF (12)
- 930126 CARBIDE BALL-BEARING AXIAL 2.6x6x1
- 930508 BALL-BEARING 5x8x2.5 STEEL SEALED - OIL (2)
- 941014 BALL-BEARING 10x15x4 RUBBER SEALED - GREASE (2)

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



1x 930126
BA 2.6x6x1

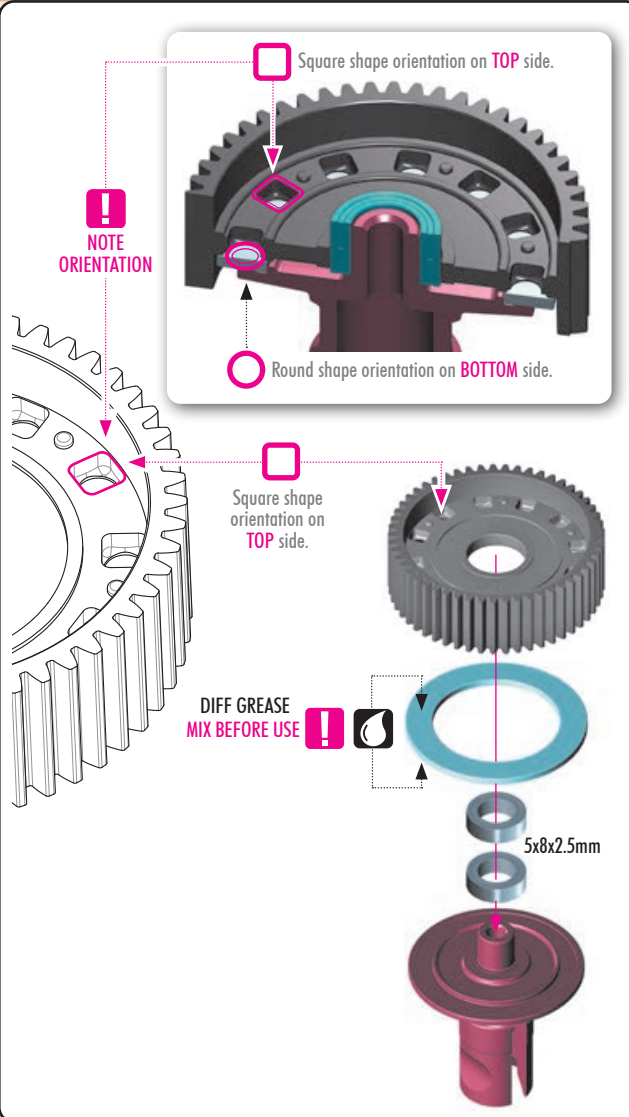


1. BALL DIFFERENTIAL

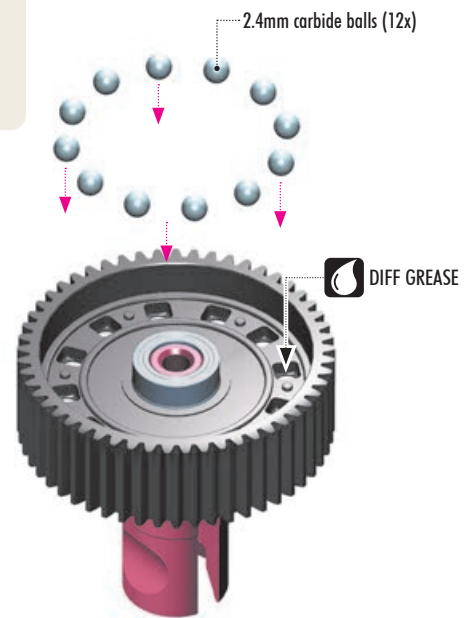
DIRT



2x 930508
BB 5x8x2.5



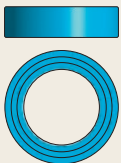
12x 930120
B 24



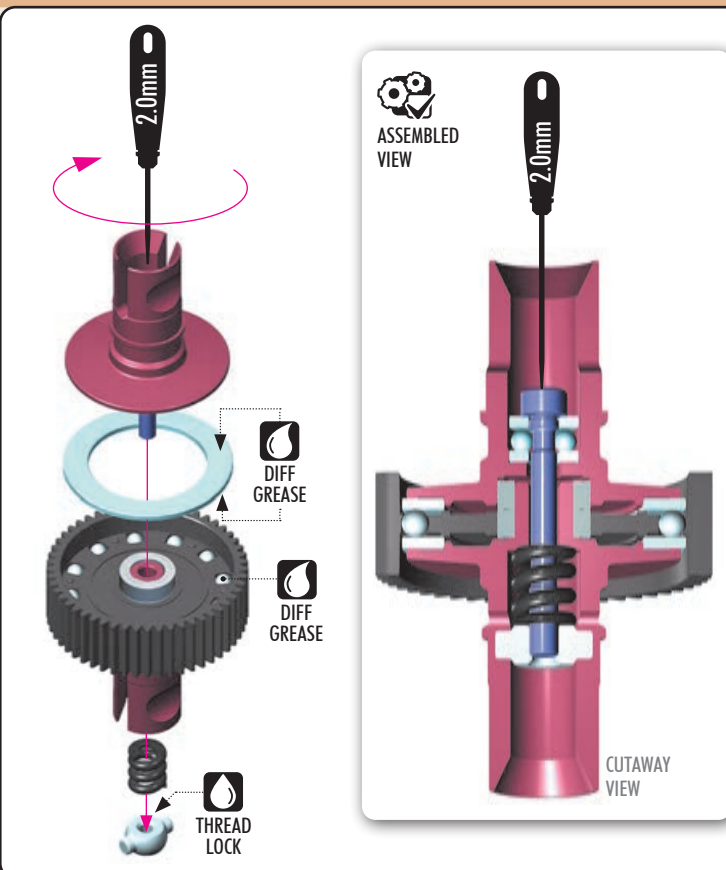
#930220
CERAMIC BALL 2.4MM (12)
OPTION



Premium-quality ceramic balls made from extra-hard Si3N4 silicone nitride ceramic significantly improve differential lifespan while reducing friction.



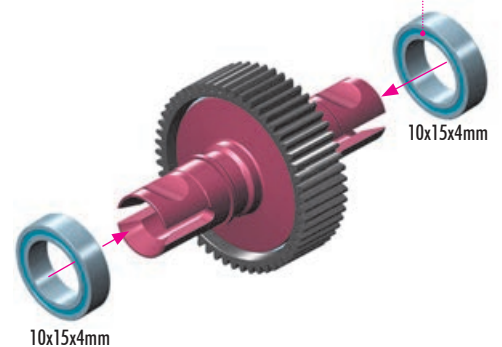
2x 941014
BB 10x15x4



00.9
BAG



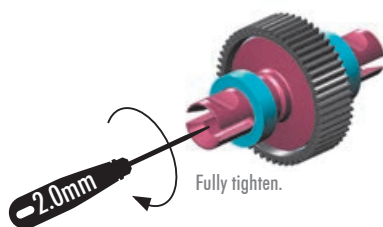
The bearings of each type are packaged separately; there is a BAG 00.9 with pre-greased ball-bearings and a separate bag with pre-oiled ball-bearings.



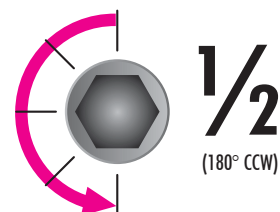
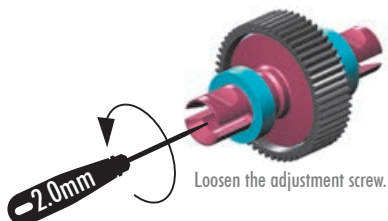


BEFORE RACING, follow these steps:

1

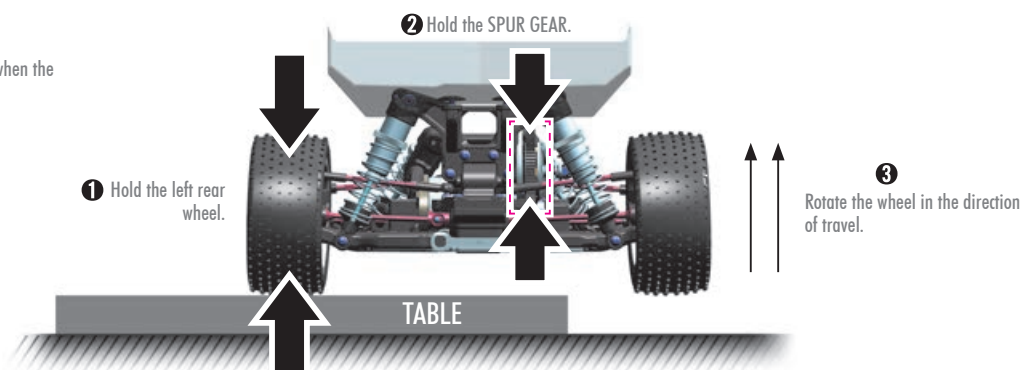


2 Loosen the adjustment screw 1/2 turn (180° CCW).

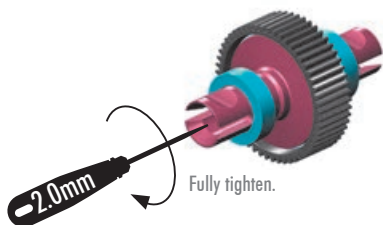


3

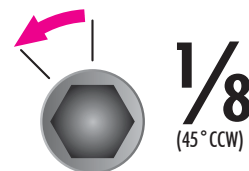
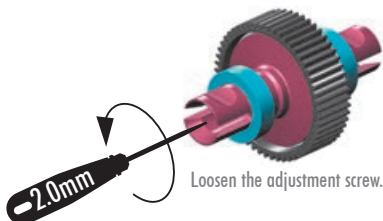
! Continue with this step when the car is fully assembled.



4



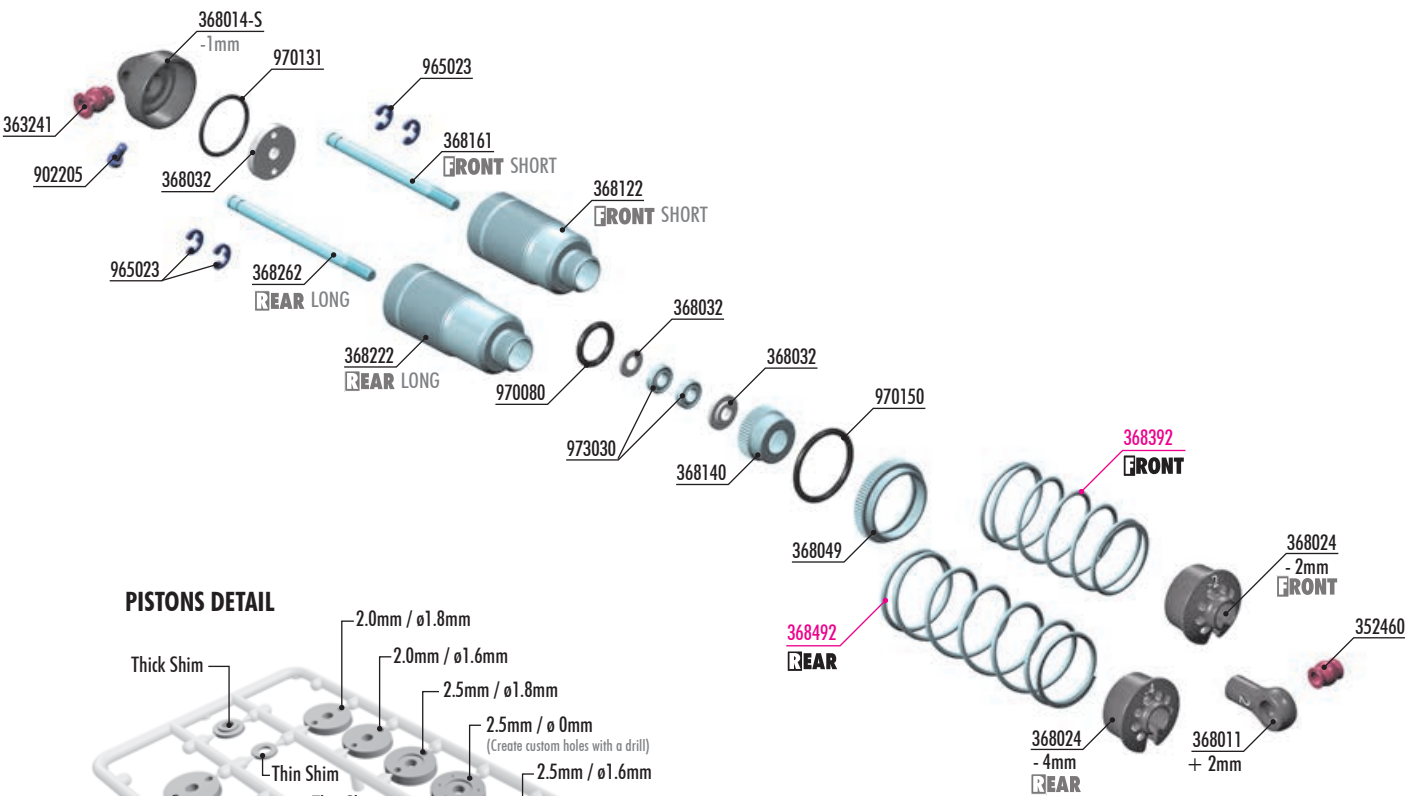
5 Loosen the adjustment screw 1/8 turn (45° CCW).



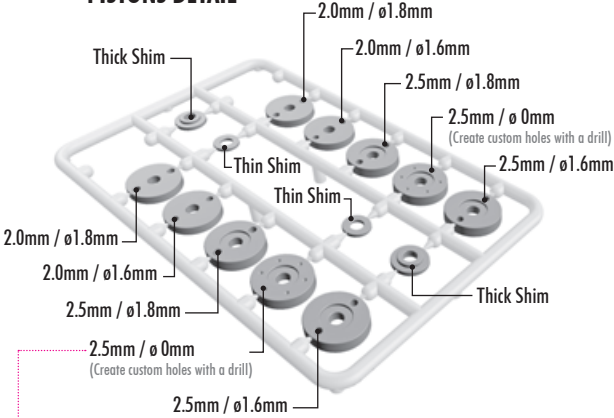
INITIAL SETTING



Ball differential is now ready.



PISTONS DETAIL



! To use these custom pistons you HAVE TO drill custom holes by yourself.

#368033
PRECISION GROUND SHOCK PISTON
BLANKS 2.5mm - BIG BORE (4)

#368034 PRECISION GROUND SHOCK
PISTON BLANKS 2.0mm - BIG BORE (4)

#104004
HUDY AIR VAC - VACUUM
PUMP - 1/10 OFF-ROAD



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.

#368021
ALU SHOCK SPRING RET. COLLAR (4)

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

#368023
ALU SHOCK SPRING RET. COLLAR -4mm (4)

#368027
ALU SHOCK SPRING RET. COLLAR -6mm (4)

BAG

02

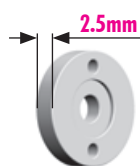
- 363241 BALL UNIVERSAL 5.75mm WITH BACKSTOP (2)
- 352460 PIVOT BALL 5.8mm (10)
- 368011 COMPOSITE SHOCK BALL JOINT +2mm & +4mm (2+2)
- 368014-S COMP. SHOCK CAP, SPRING COLLAR & BALL JOINT - BIG BORE (2)
- 368024 COMPOSITE SPRING COLLAR -2mm & -4mm - BIG BORE (2+2)
- 368032 SHOCK PISTONS - COMPLETE SET - DELRIN - BIG BORE
- 368049 ALU SHOCK ADJUSTABLE NUT - BIG BORE (2)
- 368122 ALU FRONT SHOCK BODY 32mm - BIG BORE (2)
- 368140 ALU LOWER SHOCK BODY CAP (2)
- 368161 FRONT HARDENED SHOCK SHAFT 42mm (2)
- 368222 ALU REAR SHOCK BODY 37.5mm - BIG BORE (2)

- 368262 REAR HARDENED SHOCK SHAFT 47mm (2)
- 902205 HEX SCREW SH M2x5 (10)
- 965023 E-CLIP 2.3 (10)
- 970080 O-RING 8x1 (10)
- 970131 O-RING 13 x 1.0 (10)
- 970150 O-RING 15 x 1.5 (10)
- 973030 SILICONE X-RING PRE-OILED 3x2 (8)
- 368392 FRONT BIG BORE CONICAL SPRING-SET L=49mm - 2 DOTS (2)
- 368492 REAR BIG BORE CONICAL SPRING-SET L=67mm - 2 DOTS (2)

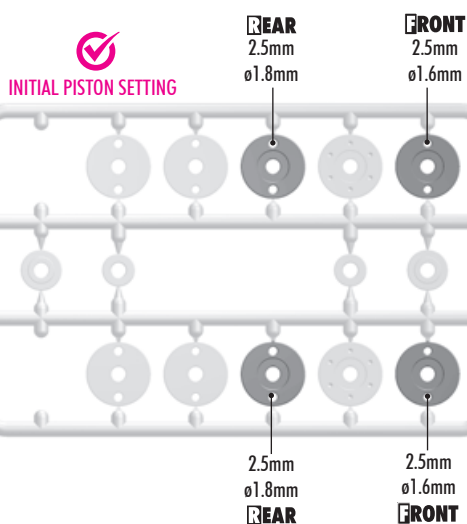
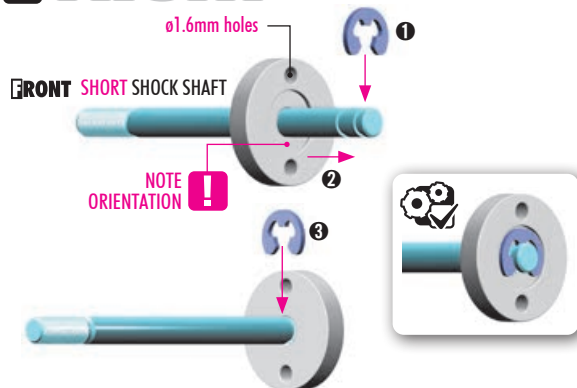
Numbers in parentheses () refer to quantities when purchased separately.

PISTONS ALTERNATIVE 1

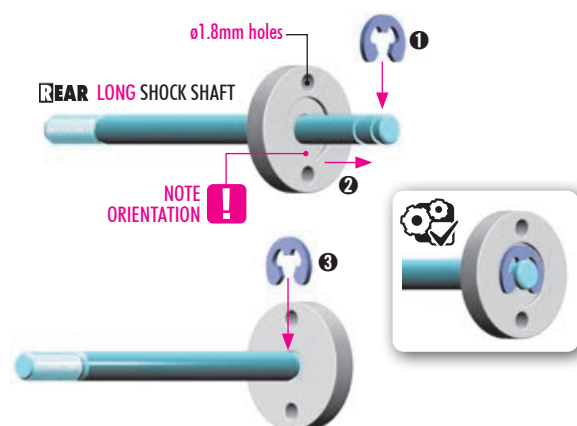
We recommend for these types of surfaces and traction levels:
CARPET •



2x FRONT



2x REAR



#368033
PRECISION GROUND SHOCK PISTON BLANKS 2.5mm - BIG BORE (4)
OPTION

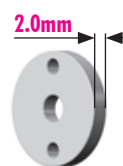


Use drill bits to create your own piston holes

Big Bore piston blanks 2.0mm or 2.5mm thick for individual custom modification. All pistons are made from Delrin and are molded using ultra-high precision moulds and afterwards precisely ground for perfectly finished surface for smoother operation.

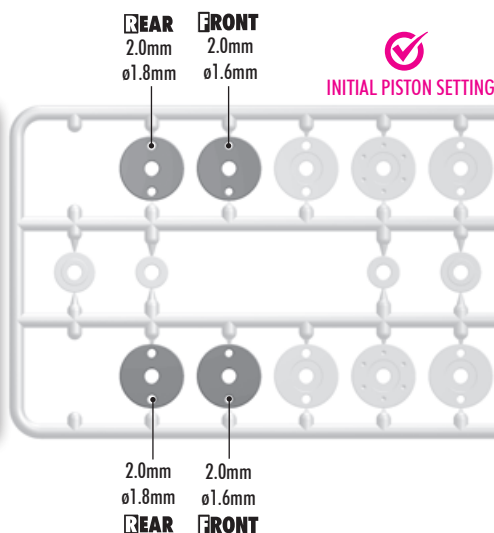
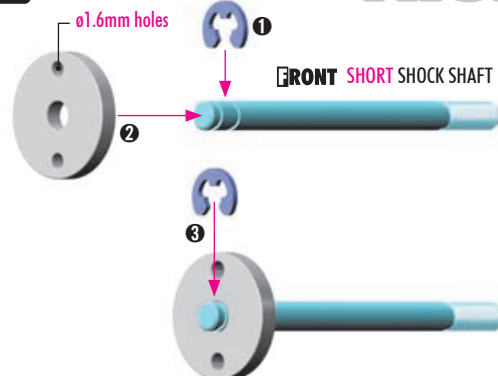
PISTONS ALTERNATIVE 2

We recommend for these types of surfaces and traction levels:
**• ASTRO
• DIRT**



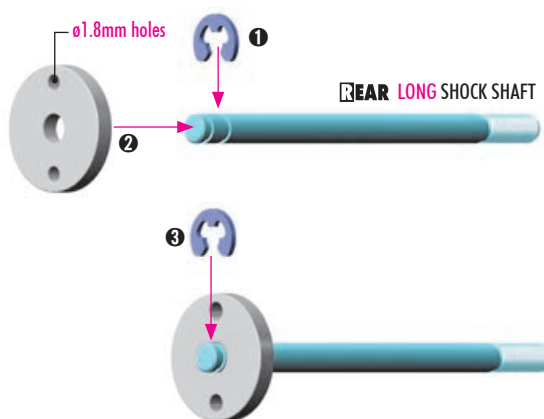
2x

FRONT



2x

REAR



#368034
PRECISION GROUND SHOCK PISTON BLANKS 2.0mm - BIG BORE (4)
OPTION



Use drill bits to create your own piston holes

Big Bore piston blanks 2.0mm or 2.5mm thick for individual custom modification. All pistons are made from Delrin and are molded using ultra-high precision moulds and afterwards precisely ground for perfectly finished surface for smoother operation.

8x 965023
C23

SET-UP
BOOK
SHOCK DAMPING
SHOCK PISTONS

2. SHOCK ABSORBERS

CARPET

DIRT



2x FRONT

2x REAR

Carefully remove the shock piston from the frame, and remove all excess plastic flash.

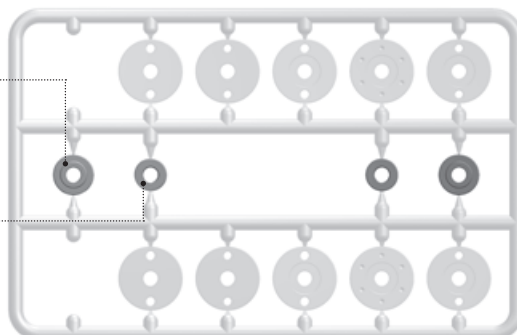
Silicone X-ring
Silicone X-ring

THICK Shim

SILICONE OIL

THIN Shim

There are two different thickness shims, use them as shown.
Use the same procedure when building both front and rear shocks.



REAR
LONG SHOCK BODY

FRONT
SHORT SHOCK BODY



2x

SHORT SHOCK SHAFT

2x

LONG SHOCK SHAFT

FRONT
SHORT SHOCK BODY

REAR
LONG SHOCK BODY

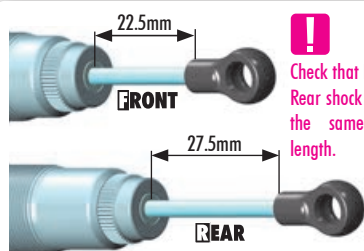


INCORRECT
DO NOT PUSH the shock rod straight through the lower shock body assembly; X-ring damage may result.



EXTREMELY IMPORTANT
CORRECT
TWIST THE SHOCK ROD through the lower shock body assembly.

Install the pivot balls with #183011 HUDY Multi Tool



!
Check that Front and Rear shock pairs are the same overall length.

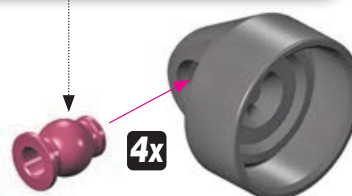
REAR 2x +2mm

! IMPORTANT



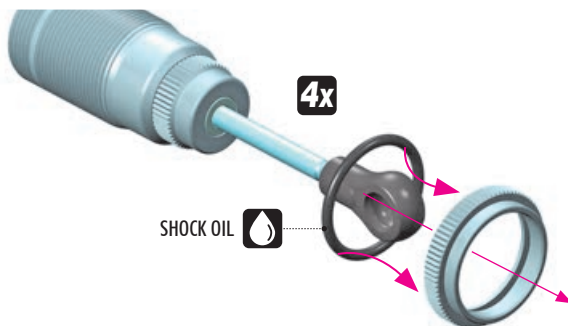
There are two different pivot ball designs. Make sure to use the CORRECT one accordingly.

TIP
Install with HUDY Multi Tool.

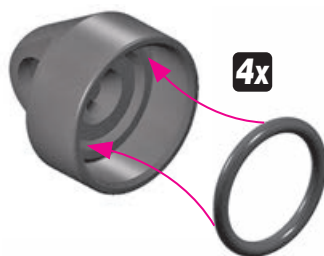




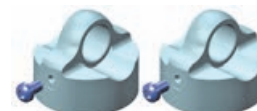
4x 970150
Ø 15x1.5



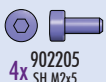
4x 970131
Ø 13x1



#368054
ALU SHOCK CAP-NUT - BIG BORE - 1mm (2)



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.



4x 902205
SH M2x5

FRONT SHORT
Oil 400cSt
CARPET
DIRT
INITIAL SETTING

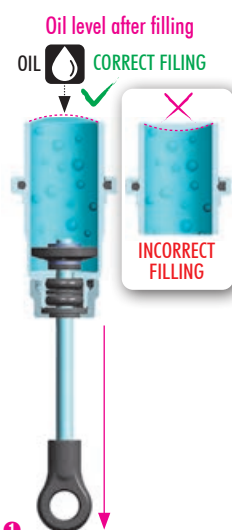
REAR LONG
Oil 300cSt
CARPET
DIRT
INITIAL SETTING

INITIAL SHOCK REBOUND SETTING 0% REBOUND

INITIAL SETTING

4x

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



1 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.



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



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



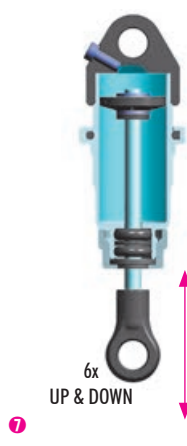
4 Gently place the shock cap onto the filled shock body and start to tighten the cap. Tighten the cap fully.



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



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



7 6x push the shaft up and down.



8 Untighten the screw.

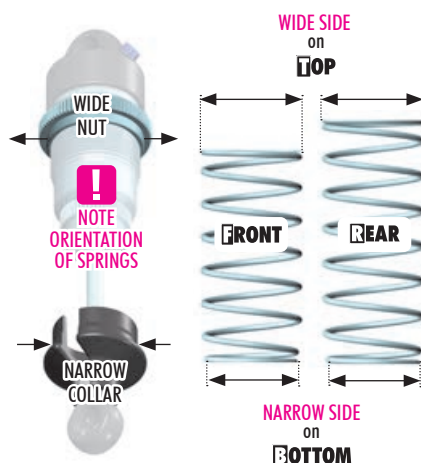
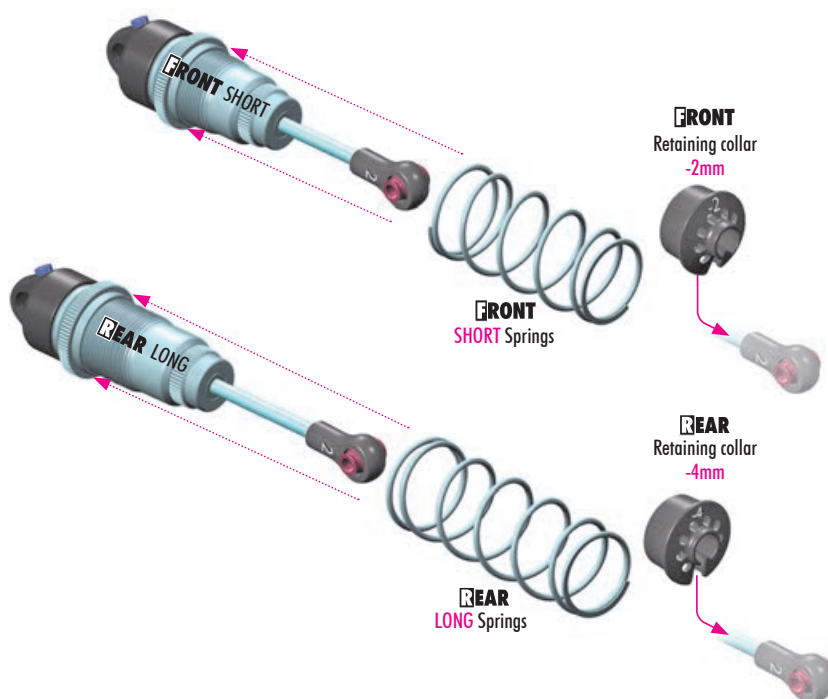


9 Gently push the shock shaft completely into the shock body. Excess oil will flow through the hole in the shock cap.



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

CARPET DIRT INITIAL PARTS CONFIGURATION



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.



#368021
ALU SHOCK SPRING RET. COLLAR (4)



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

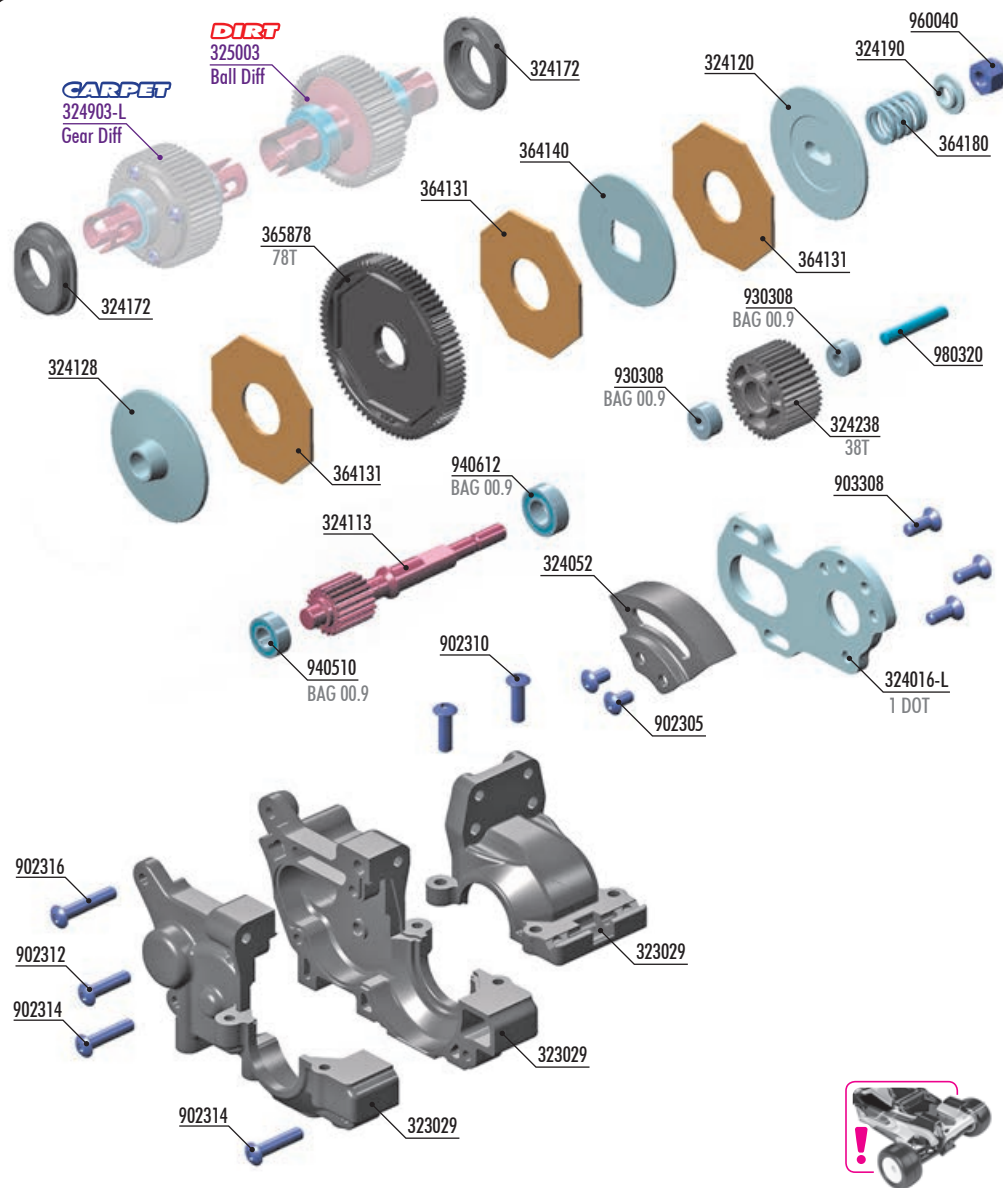


#368023
ALU SHOCK SPRING RET. COLLAR -4mm (4)



#368027
ALU SHOCK SPRING RET. COLLAR -6mm (4)





324017
CARBON MOTOR
PLATE - LCG - 3.0MM



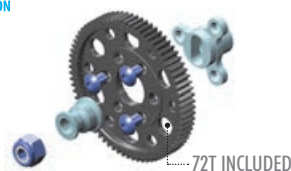
#980320-T
TITAN PIN 3x20 (2)



SPUR GEARS	CARPET	DIRT
#365872 72T	OPTION	OPTION
#365875 75T	OPTION	OPTION
#365878 78T	INCLUDED	INCLUDED
#365881 81T	OPTION	OPTION



#324103
SLIPPER ELIMINATOR - SET



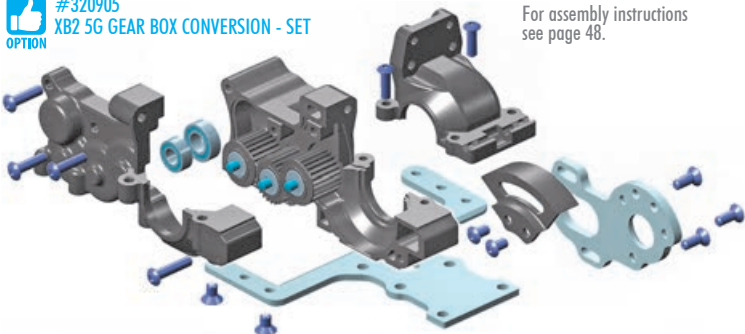
#325869
SLIPPER ELIMINATOR
SPUR GEAR 69T / 48



#323029-G
GRAPHITE 3G GEAR BOX FOR
CHASSIS BRACE - SET



#320905
XB2 5G GEAR BOX CONVERSION - SET



For assembly instructions
see page 48.



#324225-P
ULTRA DURABLE GEAR
25T - MACHINED



This gear DOES NOT fit the XT2 gearbox on its own. It must be used only with the #320905 5G Gear Box Conversion Set.



#324238-P
ULTRA DURABLE GEAR
38T - MACHINED



This gear fits directly into the XT2 gearbox and does not require any additional optional parts.

BAG

03

- 323029 COMPOSITE 3G GEAR BOX FOR CHASSIS BRACE - SET
- 324016-L ALU MOTOR PLATE FOR 3G GEAR BOX -1mm - 1-DOT - SWISS 7075 T6
- 324052 COMPOSITE GEAR COVER - LCG
- 324113 ALU 3-PAD TOP SHAFT 20T - LCG - SWISS 7075 T6 - HARD COATED
- 324120 ALU 3-PAD SLIPPER CLUTCH PLATE - SWISS 7075 T6 - HARD COATED
- 324128 ALU 3-PAD SLIPPER CLUTCH PLATE WITH ADAPTER - LCG - SWISS 7075 T6
- 324172 COMPOSITE ADJUSTMENT BALL-BEARING HUB (2)
- 324190 ALU 3-PAD SLIPPER CLUTCH SHIM
- 324238 COMPOSITE GEAR 38T - LCG - GRAPHITE
- 364131 SLIPPER CLUTCH PAD SLS - SOFT (3)
- 364140 ALU 3-PAD SLIPPER CLUTCH PLATE DISC - 7075 T6 HARD COATED
- 364180 SLIPPER CLUTCH SPRING C=30 - BLACK
- 365878 COMPOSITE 3-PAD SLIPPER CLUTCH SPUR GEAR 78T / 48
- 902305 HEX SCREW SH M3x5 (10)

- 902310 HEX SCREW SH M3x10 (10)
- 902312 HEX SCREW SH M3x12 (10)
- 902314 HEX SCREW SH M3x14 (10)
- 902316 HEX SCREW SH M3x16 (10)
- 903308 HEX SCREW SFH M3x8 (10)
- 930308 BALL-BEARING 3x8x4 STEEL SEALED - OIL (2)
- 940510 BALL-BEARING 5x10x4 RUBBER SEALED - OIL (2)
- 940612 BALL-BEARING 6x12x4 RUBBER SEALED - OIL (2)
- 960040 NUT M4 (10)
- 980320 PIN 3x20 (10)

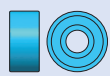
CARPET

324903-L GEAR DIFFERENTIAL - LCG - NARROW - SET

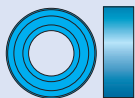
DIRT

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

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



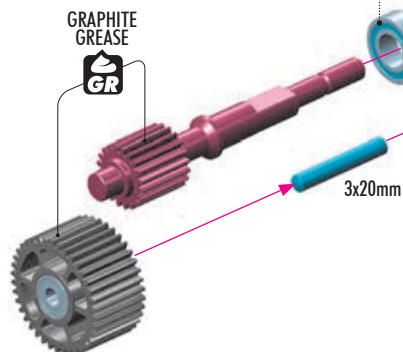
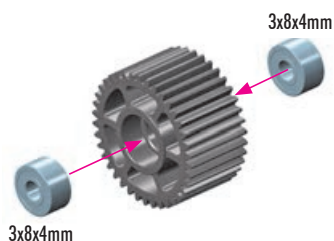
2x 930308
BB 3x8x4



1x 940612
BB 6x12x4



1x 980320
P 3x20

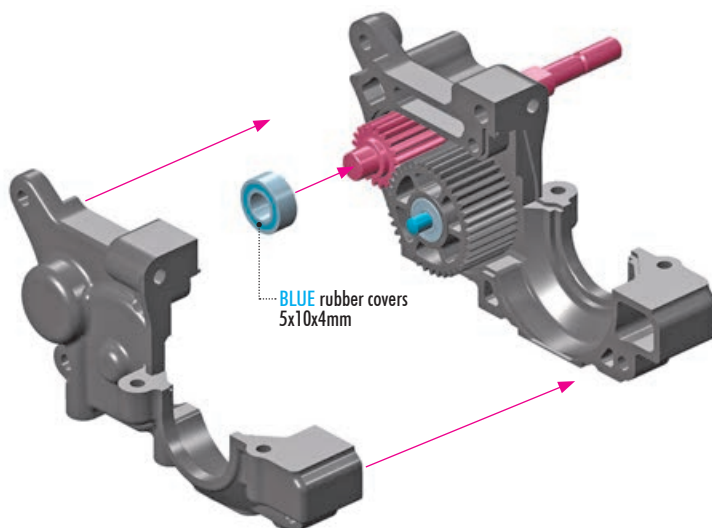


#980320-T
OPTION TITANIUM PIN 3x20 (2)

Super lightweight ultra-precision hand ground titanium pins for high durability and long life. More than 40% lighter than steel.



1x 940510
BB 5x10x4



902312 SH M3x12
1x

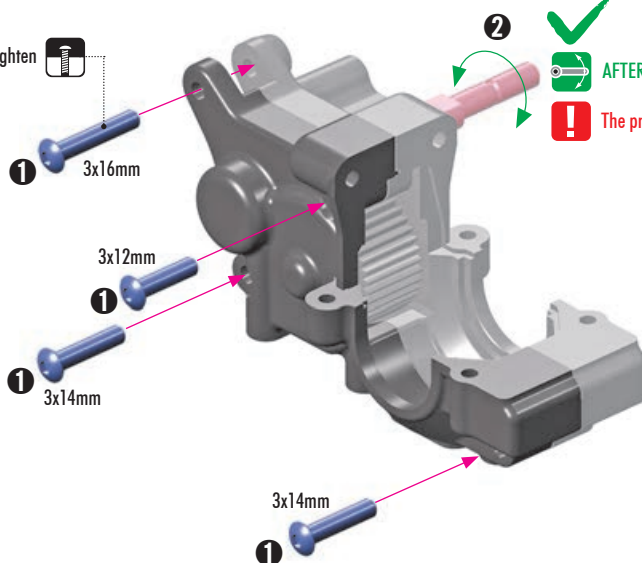


902314 SH M3x14
2x



1x 902316
SH M3x16

DO NOT overtighten



AFTER ASSEMBLY, check for free rotation of all drivetrain parts.



The proper gear mesh will be achieved after final assembly on the chassis.

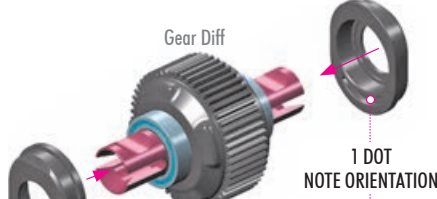
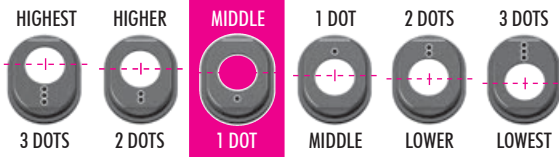


CARPET INITIAL PARTS CONFIGURATION

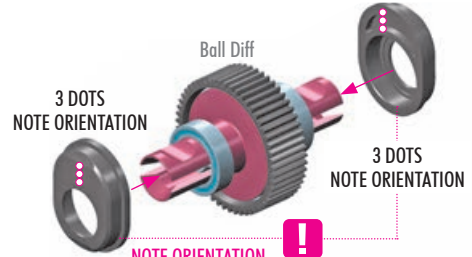
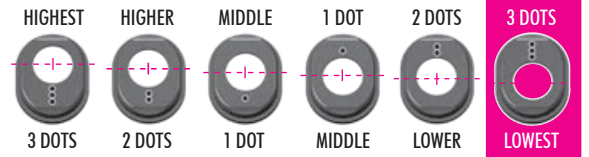


DIFFERENTIAL HEIGHT ADJUSTMENT

DIRT INITIAL PARTS CONFIGURATION

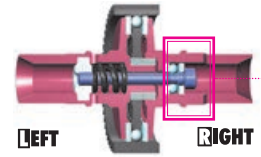


NOTE ORIENTATION
Dots must have same orientation on each side (dots up or down).



NOTE ORIENTATION
Dots must have same orientation on each side (dots up or down).

NOTE DIFF ORIENTATION

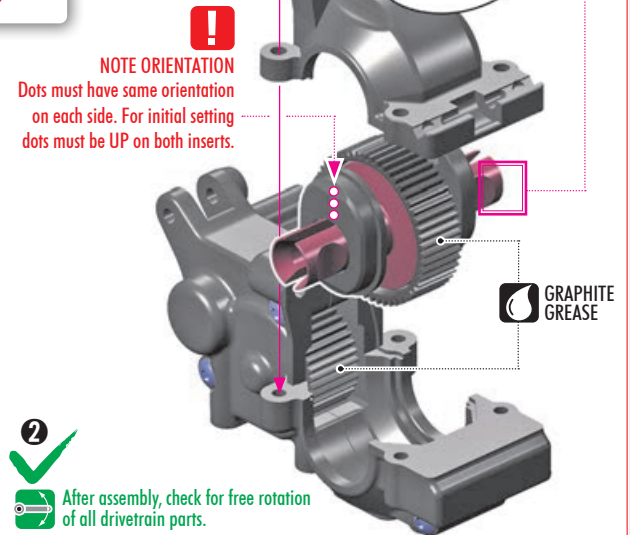
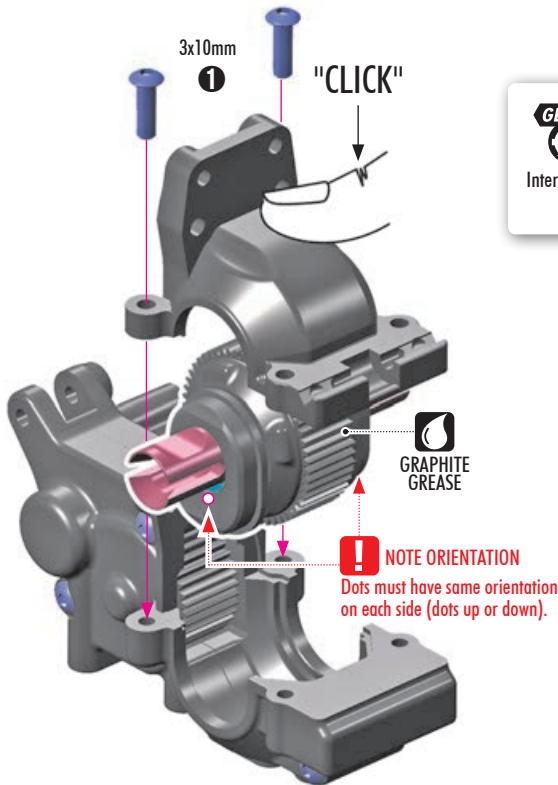


Ball differential must always be oriented with the screw on the right side. If the ball differential is oriented with the screw on the left side, the ball diff will become loose when the car is running.

✓ 2 After assembly, check for free rotation of all drivetrain parts.

! The proper gear mesh will be achieved after final assembly on the chassis.

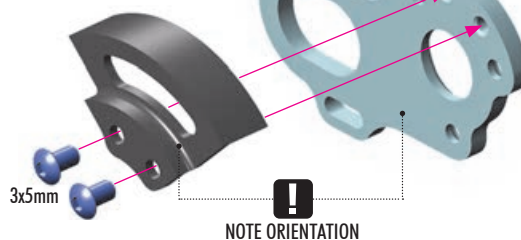
GEAR RATIO
Internal Gear Ratio
2.65



✓ 2 After assembly, check for free rotation of all drivetrain parts.
! The proper gear mesh will be achieved after final assembly on the chassis.



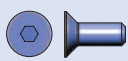
3G Motor plate (-1mm) 1 Dot



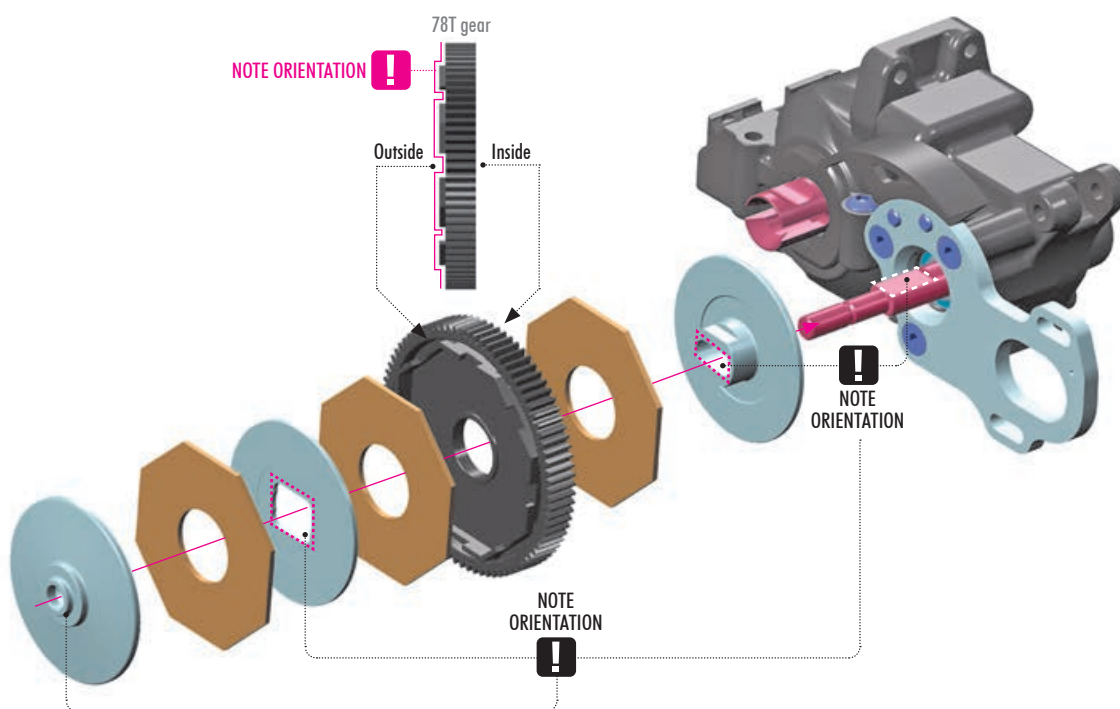
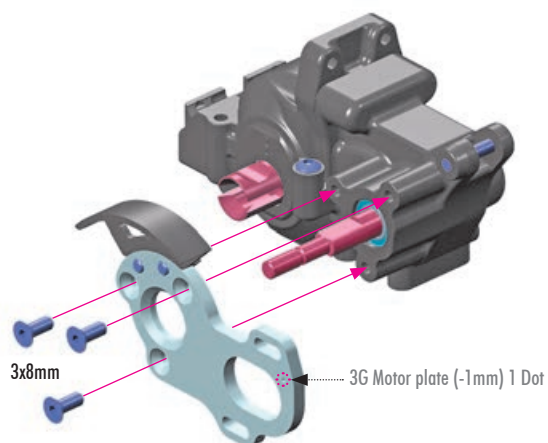
#324017
CARBON MOTOR PLATE LCG



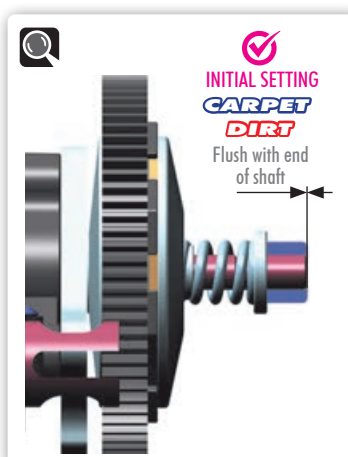
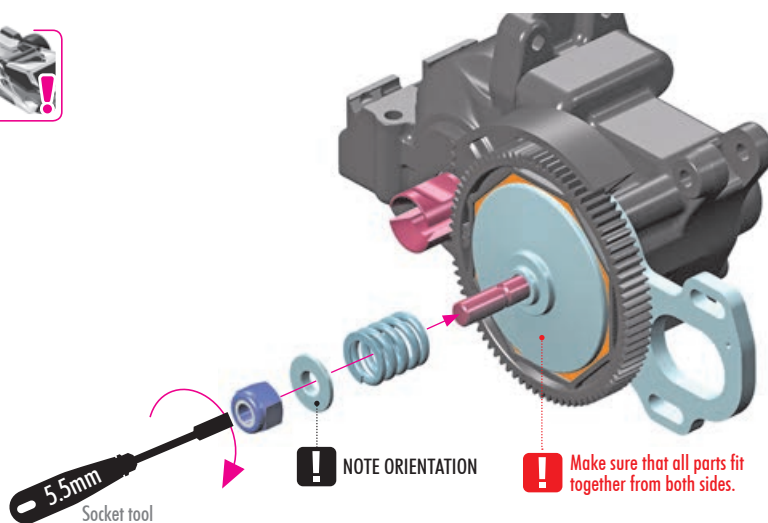
Lightweight carbon motor plate helps to reduce CG and absorbs vibrations from the motor.

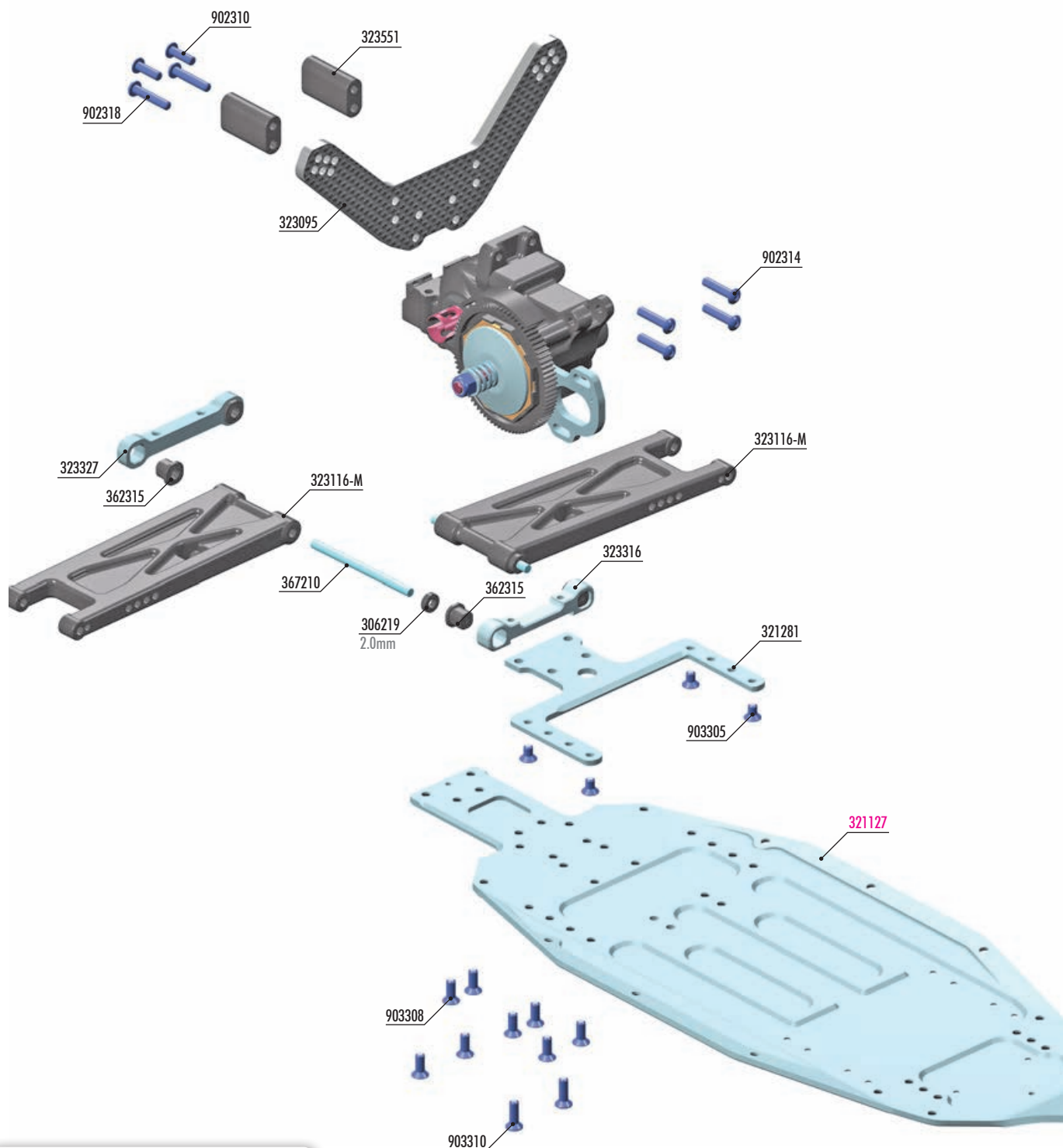


3x 903308
SFH M3x8



1x 960040
N M4





REAR SOLID SUSPENSION ARMS

#	OPTION	INCLUDED
#323116-M	MEDIUM	INCLUDED
#323116-H	HARD	OPTION
#323116-G	GRAPHITE	OPTION



BAG

04

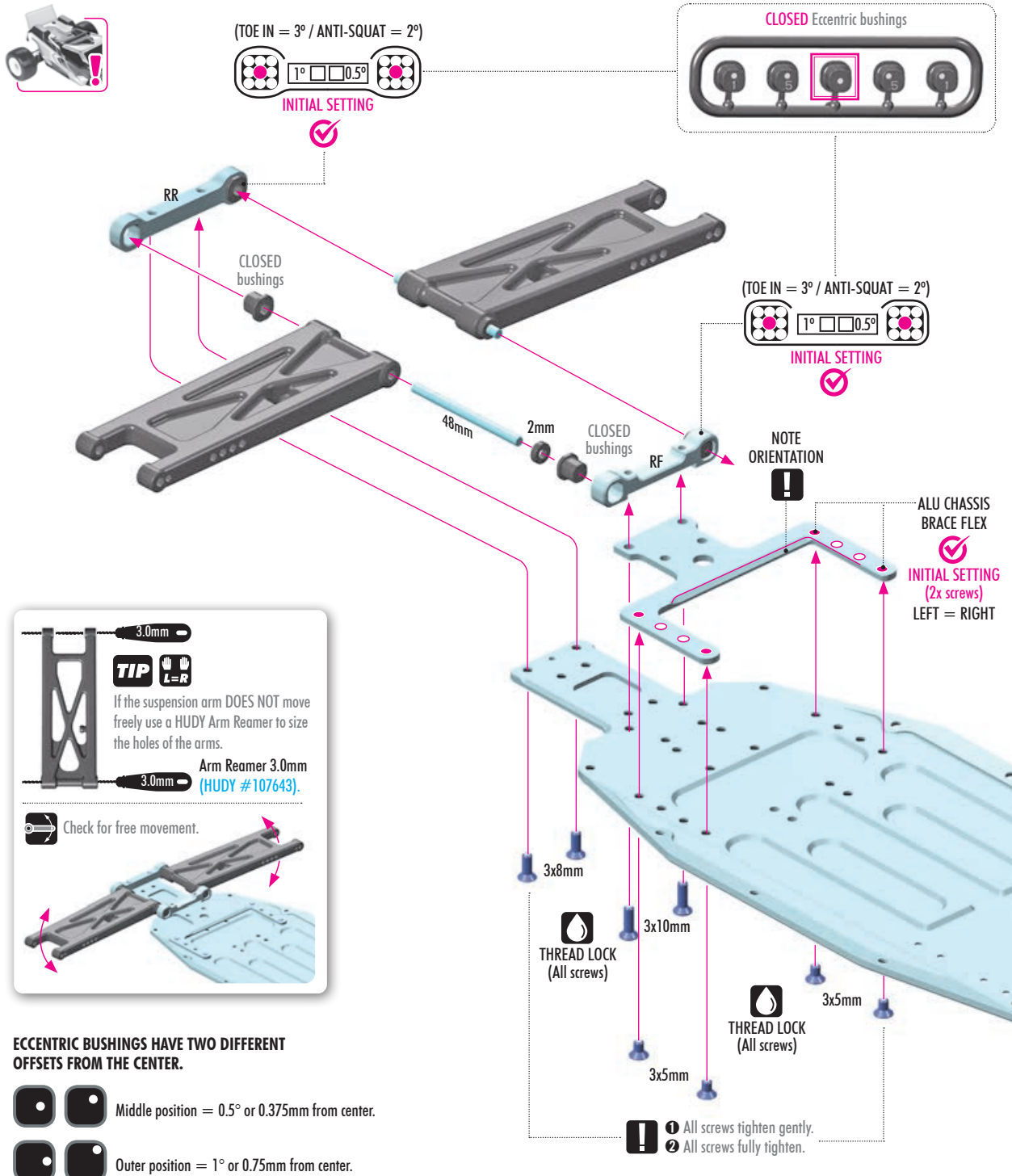
306219	COMPOSITE SET OF SERVO SHIMS (4)
321281	ALU FLAT CHASSIS BRACE FOR 3G GEAR BOX
323095	XT2 CARBON SHOCK TOWER FOR BRIDGE UPPER DECK - LOWER - REAR
323116-M	XT2 SUSPENSION ARM REAR LOWER - 4-HOLE - SOLID - MEDIUM
323316	ALU REAR LOWER SUSPENSION HOLDER FOR CHASSIS BRACE - FRONT
323327	ALU REAR LOWER SUSPENSION HOLDER 3° - WIDER - REAR
323551	XT2 COMPOSITE REAR BODY MOUNT (2)
362315	ECCENTRIC BUSHING SET (2)
367210	SUSPENSION PIVOT PIN (2)

902310	HEX SCREW SH M3x10 (10)
902314	HEX SCREW SH M3x14 (10)
902318	HEX SCREW SH M3x18 (10)
903305	HEX SCREW SFH M3x5 (10)
903308	HEX SCREW SFH M3x8 (10)
903310	HEX SCREW SFH M3x10 (10)

321127 XT2 ALU CHASSIS - 2.5mm - LONG - REAR WIDE - SWISS 7075 T6

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

- 2x 306219 SHIM 3x6x2
- 4x 903305 SFH M3x5
- 2x 903308 SFH M3x8
- 2x 903310 SFH M3x10



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	(°)	
		= 2.0°	
		= 3.0°	
		= 1.0°	
		= 3.0°	
		= 2.0°	
		= 4.0°	
		= 1.0°	
		= 2.0°	
		= 1.0°	

ROLL CENTER			
RR	RF	(mm)	
		= +0.75mm	
		= 0mm	
		= -0.75mm	

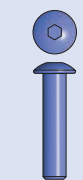
TRACK-WIDTH			
RR	RF	(mm)	
		= +1.5mm	
		= 0mm	
		= -1.5mm	

TOE-IN			
RR	RF	(°)	
		= 3°	
		= 4°	
		= 2°	
		= 1°	
		= 5°	

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.

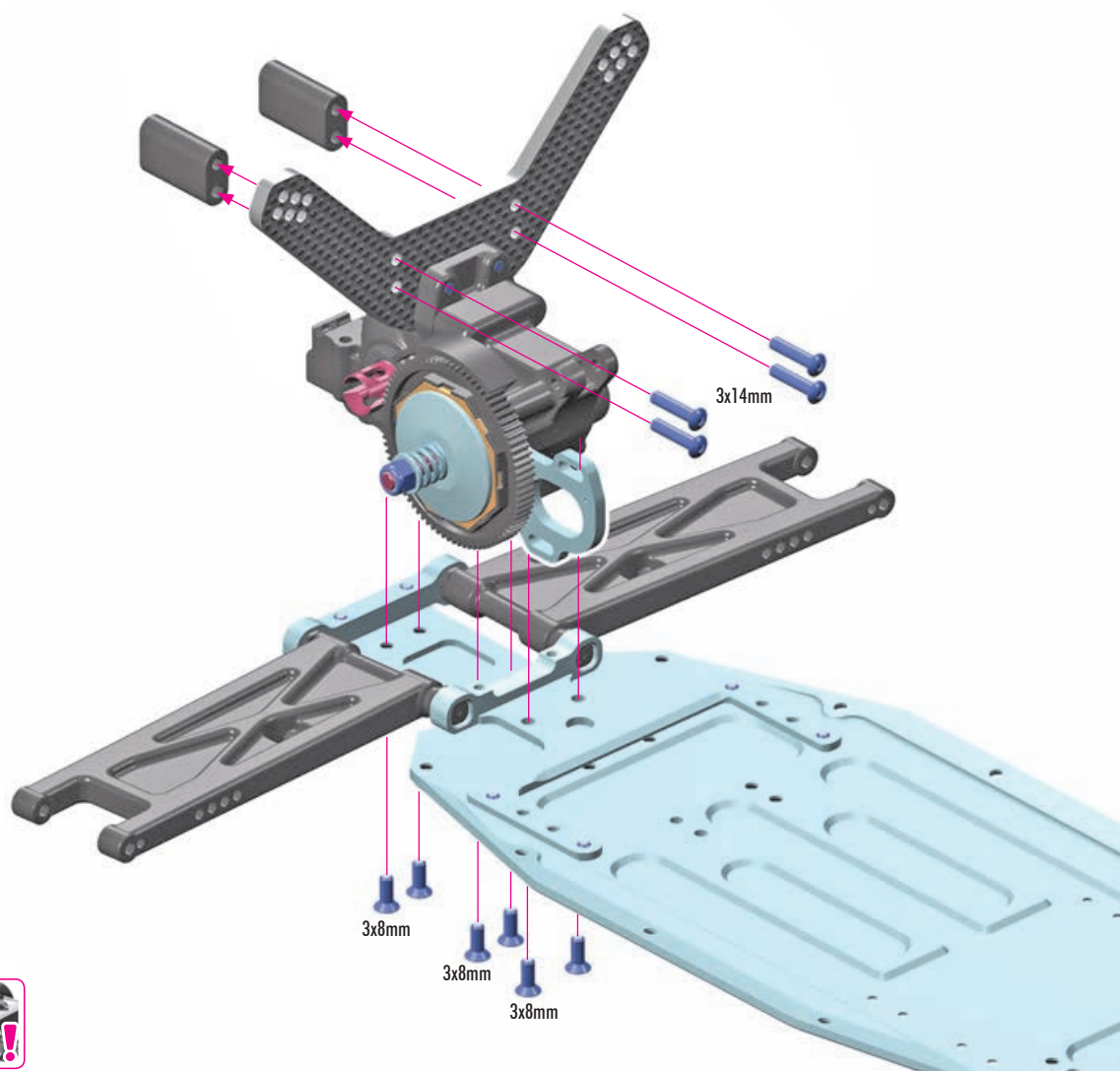
ANTI-SQUAD Example:
0(RR) - 0 (RF) = 2.0°
0(RR) - 0.5 (RF) = 2.5°
0(RR) - 1 (RF) = 3.0°



4x 902314
SH M3x14



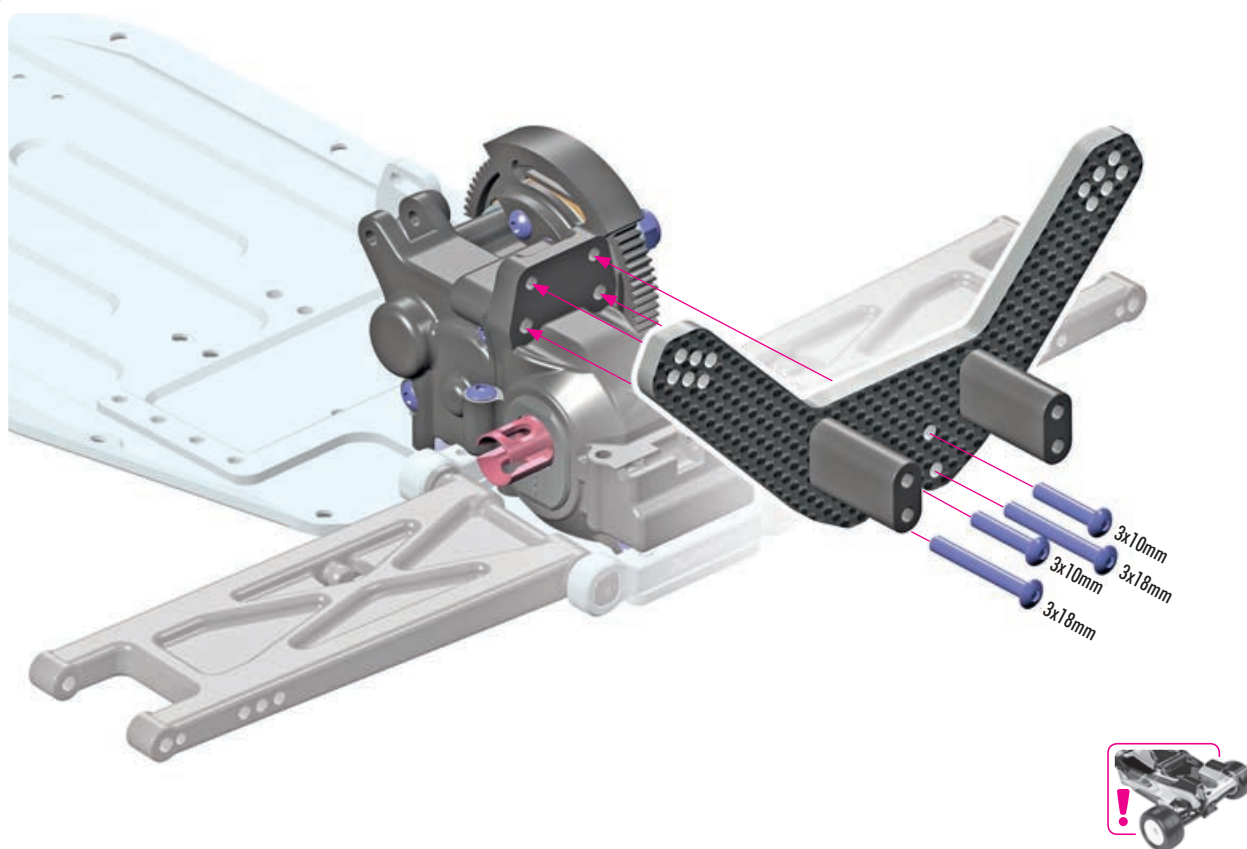
6x 903308
SFH M3x8



2x 902310
SH M3x10



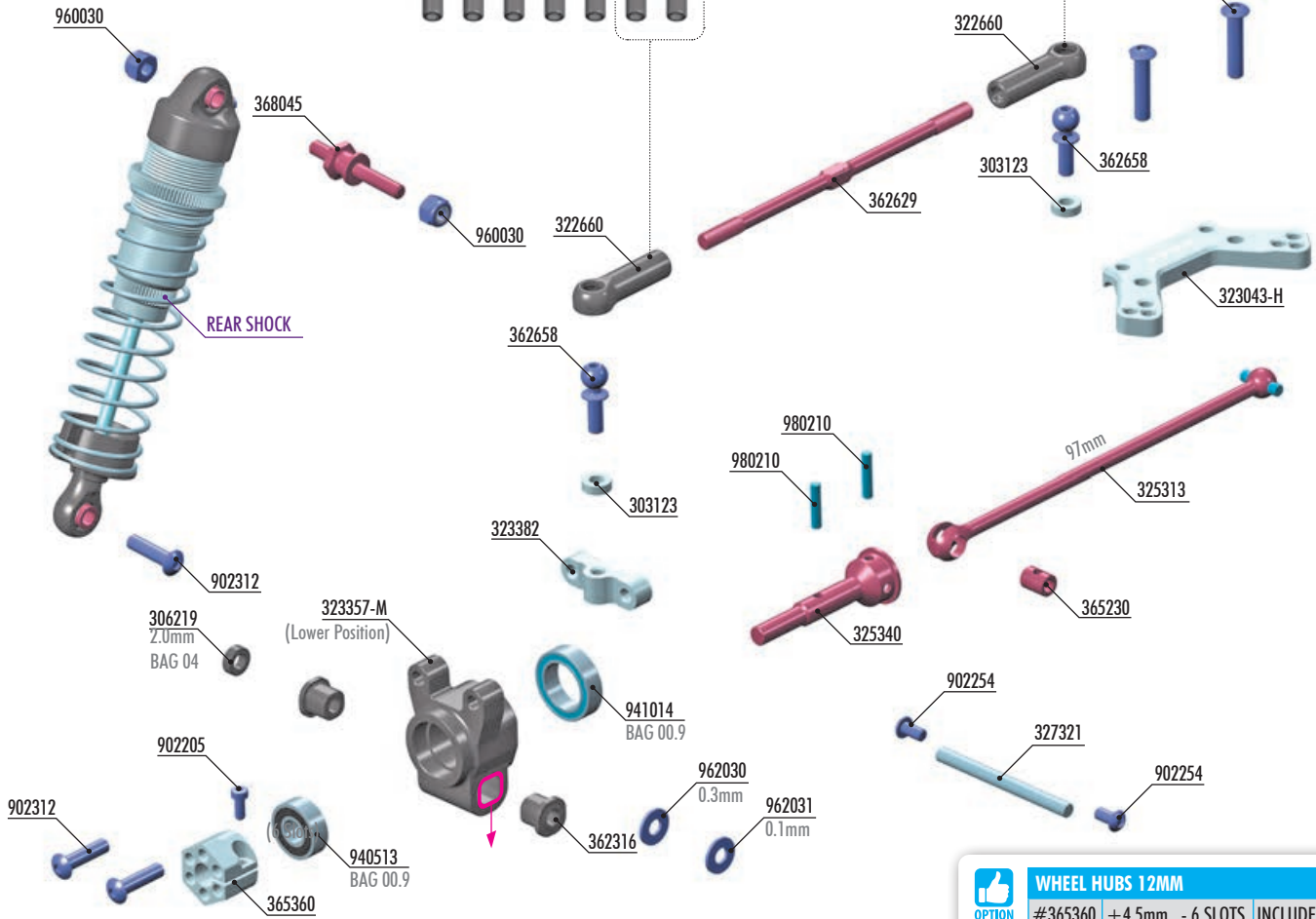
2x 902318
SH M3x18





Remaining ball joints will be used in the next sections of the instruction manual.

Ball joint for rear camber links



XRAY BALL-BEARINGS

#940512	5x12x4	OIL	OPTION
#941015	10x15x4	OIL	OPTION
#940513	5x12x4	GREASE	INCLUDED
#941014	10x15x4	GREASE	INCLUDED



#325341 REAR ADJ. DRIVE AXLE LB - HUDY SPRING STEEL™
#325390 ALU SHIM 10x12x2mm (2)



HUDY TITAN BALL ENDS

#990016	6mm LONG	OPTION
#990018	8mm LONG	OPTION



REAR UPRIGHTS

		Position	
#323354-M	MEDIUM	UPPER	OPTION
#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



WHEEL HUBS 12MM

#365360	+4.5mm - 6 SLOTS	INCLUDED
#365359	+3.75mm - 5 SLOTS	OPTION
#365358	+3.0mm - 4 SLOTS	OPTION
#365357	+2.25mm - 3 SLOTS	OPTION
#365356	+1.5mm - 2 SLOTS	OPTION
#365355	+0.75mm - 1 SLOT	OPTION
#365353	0mm - 0 SLOTS	OPTION
#365354	-0.75mm - Lightw.	OPTION
#365361	-1.25mm - Lightw.	OPTION



OPTIONAL HEX HUB EFFECTS

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

LESS OFFSET

Rear - more traction
Front - more steering

MORE OFFSET

Rear - less traction
Front - less steering

BAG

05

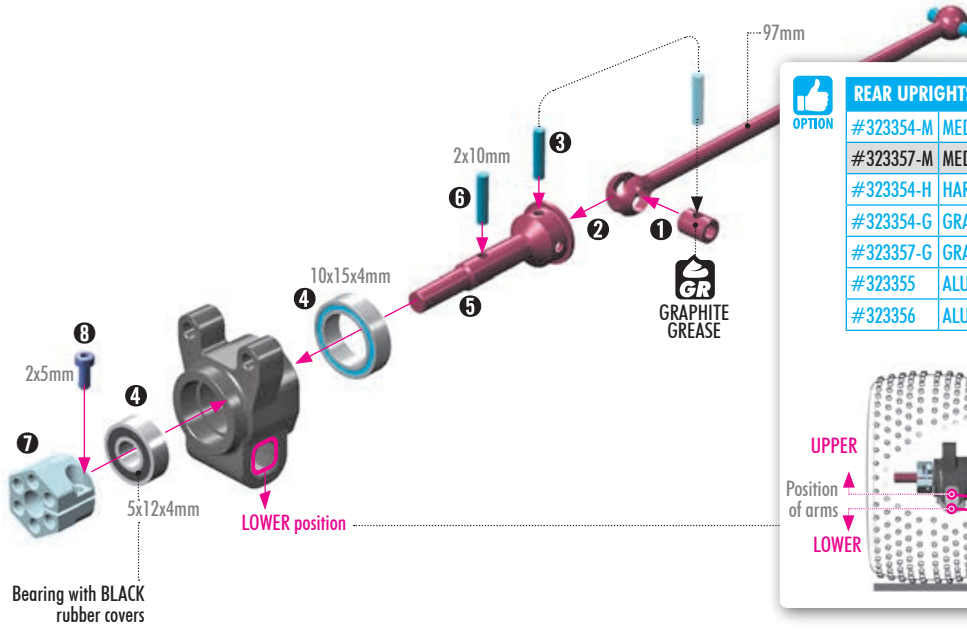
303123	ALU SHIM 3x6x2.0mm (10)
306219	COMPOSITE SET OF SERVO SHIMS (4)
322660	COMPOSITE BALL JOINT 5.4mm (12+1+1)
323043-H	ALU REAR ROLL-CENTER HOLDER FOR ANTI-ROLL BAR COLLAR - REINFORCED
323357-M	COMPOSITE UPRIGHT REAR - LOWER POSITION - MEDIUM
323382	ALU REAR HUB PLATE FOR MULTI ADJ. UPRIGHT - 1-HOLE - 7075 T6
325313	DRIVE SHAFT 97mm WITH 2.5mm PIN - HUDY SPRING STEEL™
325340	REAR DRIVE AXLE LB - HUDY SPRING STEEL™
327321	REAR ARM PIVOT PIN (2)
362316	ECCENTRIC BUSHING SET - OPEN (2)
362629	ADJUSTABLE TURNBUCKLE 75mm M3.5 L/R - HUDY SPRING STEEL™ (2)
362658	BALL END 5.4mm WITH THREAD 8mm (2)
365230	DRIVE SHAFT COUPLING - HUDY SPRING STEEL™

365360	ALU WHEEL HUB 12mm - OFFSET " +3.0mm" (2)
368045	STEEL SHOCK STANDOFFS (2)
902205	HEX SCREW SH M2x5 (10)
902254	HEX SCREW SH M2.5x4 (10)
902312	HEX SCREW SH M3x12 (10)
902314	HEX SCREW SH M3x14 (10)
940513	BALL-BEARING 5x12x4 RUBBER SEALED - GREASE (2)
941014	BALL-BEARING 10x15x4 RUBBER SEALED - GREASE (2)
960030	NUT M3 (10)
962030	WASHER S 3x6x0.3 (10)
962031	WASHER S 3x6x0.1 (10)
980210	PIN 2x9.8 (10)

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

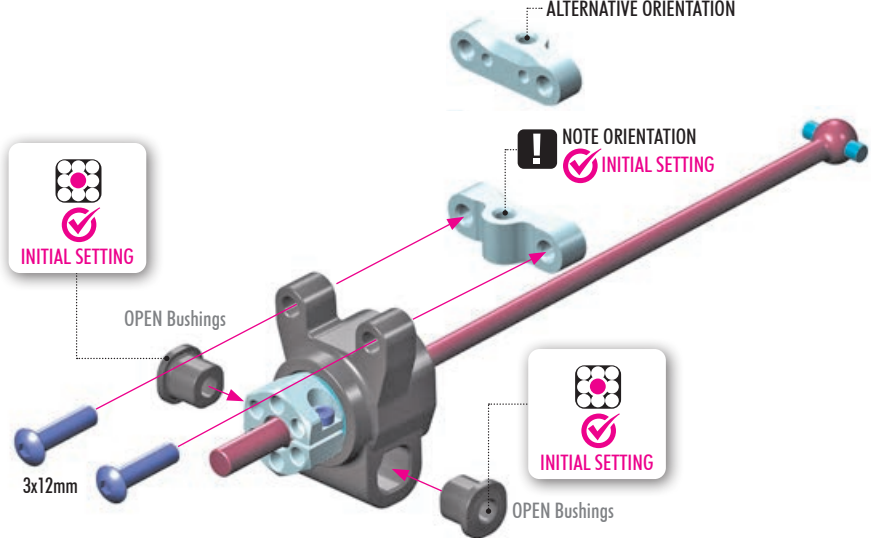
- 2x 902205 SH M2x5
- 2x 940513 BB 5x12x4
- 2x 941014 BB 10x15x4
- 4x 980210 P 2x10

2x L=R



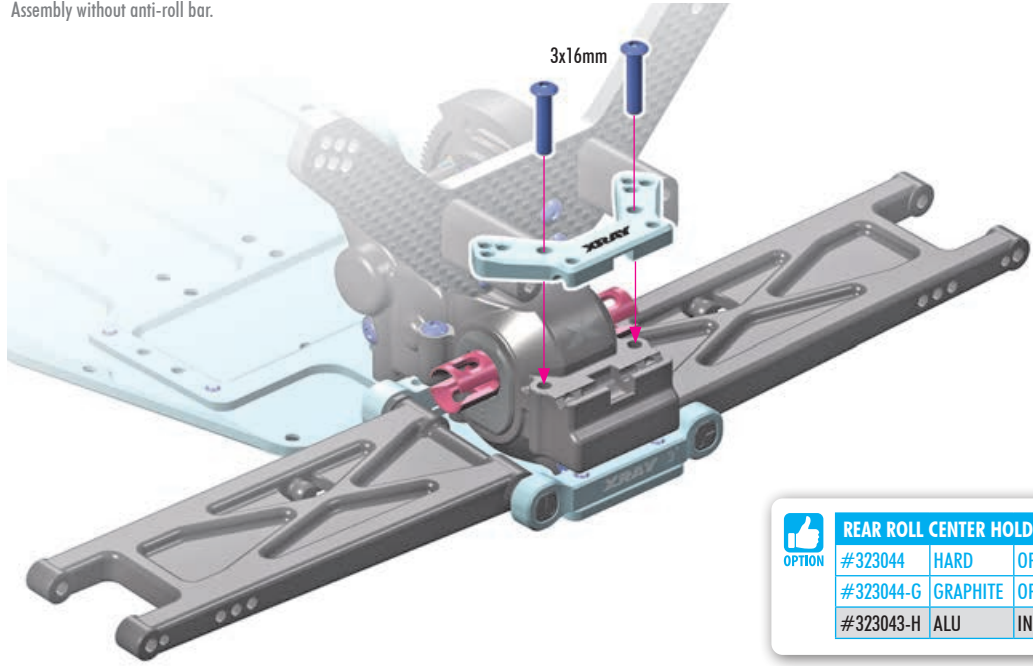
- 4x 902312 SH M3x12

2x L=R



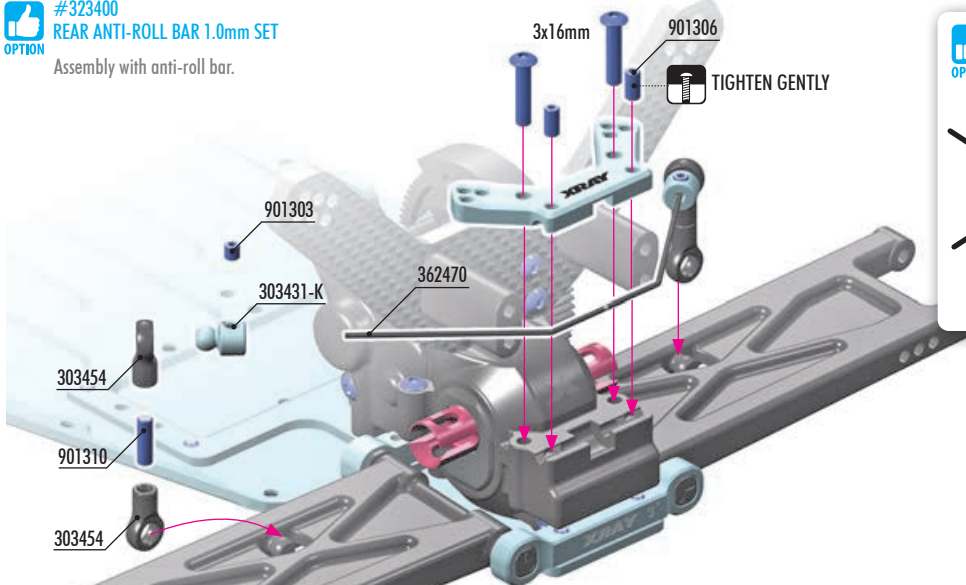
- 2x 902316 SH M3x16

Assembly without anti-roll bar.





#323400
REAR ANTI-ROLL BAR 1.0mm SET
Assembly with anti-roll bar.



ANTI-ROLL BARS

#362470	1.0mm	OPTION
#362471	1.1mm	OPTION
#362472	1.2mm	OPTION
#362473	1.3mm	OPTION
#362474	1.4mm	OPTION
#362476	1.6mm	OPTION
#362478	1.8mm	OPTION
#362480	2.0mm	OPTION



IO

2x 306219
SHIM 3x6x2

4x 902254
SH M2.5x4

2x 962031
S 3x6x0.1

0x 962030
S 3x6x0.3

2x L=R

3x6x0.1mm **INITIAL SETTING**
(Use for MEDIUM suspension arm)

3x6x0.3mm
(Use for HARD or GRAPHITE suspension arm)

0.1mm
2mm

TIGHTEN GENTLY



2x5x4mm

34mm

2x5x4mm

TIGHTEN GENTLY

Ensure that the rear upright moves freely.
Check for free movement.



ASSEMBLED VIEW

2x L=R



SLOT ORIENTATION

RIGHT
THREAD

LEFT
THREAD

TIP
Install with HUDY
Ball Joint Wrench

8mm THREAD

8mm THREAD

TIP
Install with HUDY Multi Tool.



HUDY TITAN BALL ENDS

#990016	6mm LONG	OPTION
#990018	8mm LONG	OPTION



2x L=R

51mm

INITIAL SETTING



4x 303123
SHIM 3x6x2

2x 

NOTE ORIENTATION 

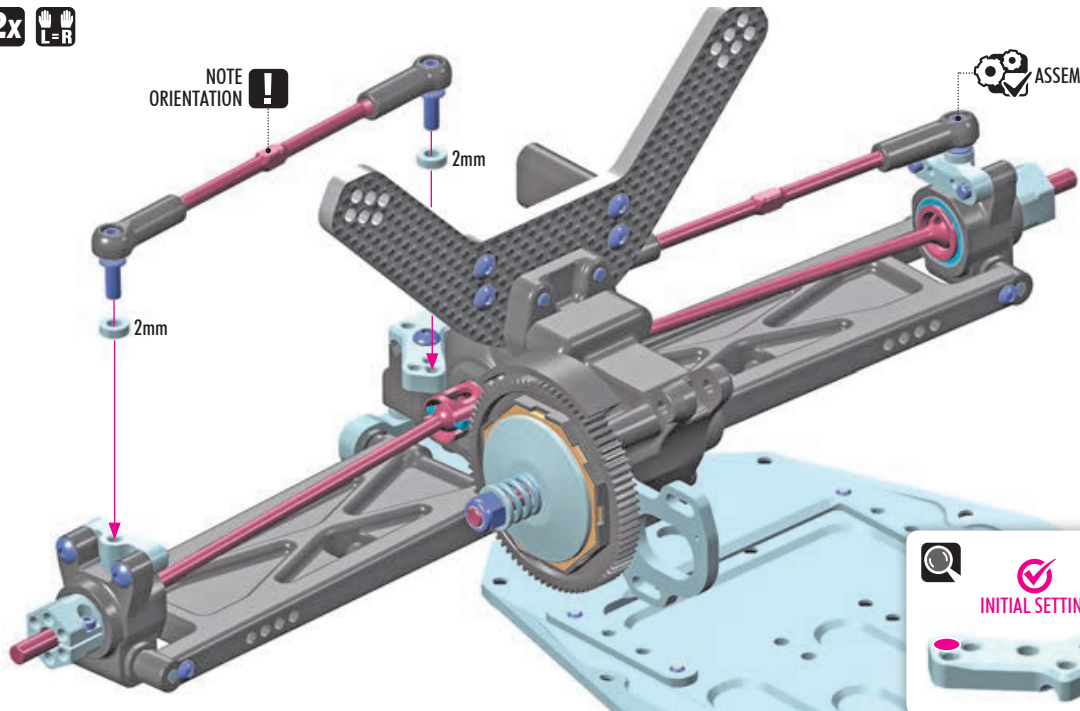
2mm

2mm

ASSEMBLED VIEW 

INITIAL SETTING 

INITIAL SETTING





2x 902312
SH M3x12



4x 960030
NUT M3

NOTE ORIENTATION 

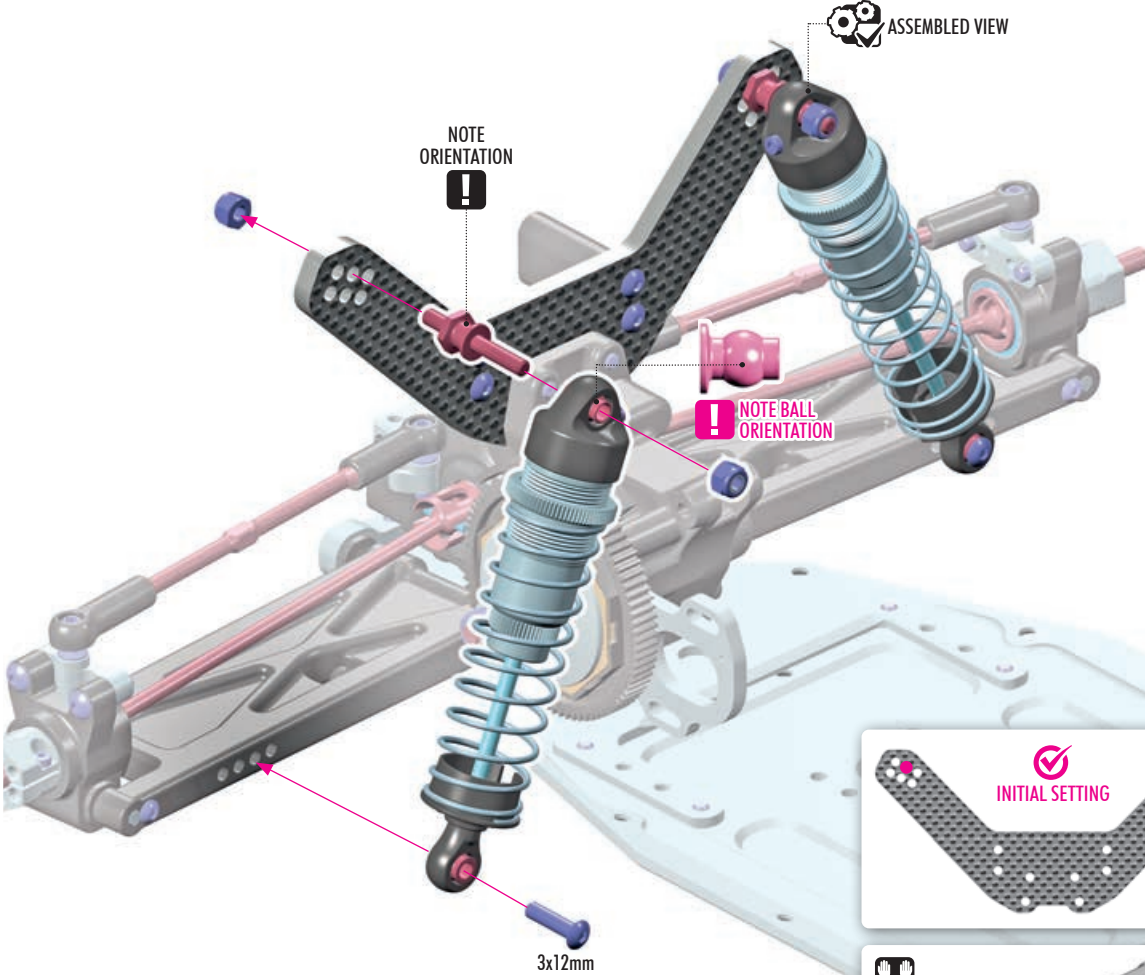
NOTE BALL ORIENTATION 

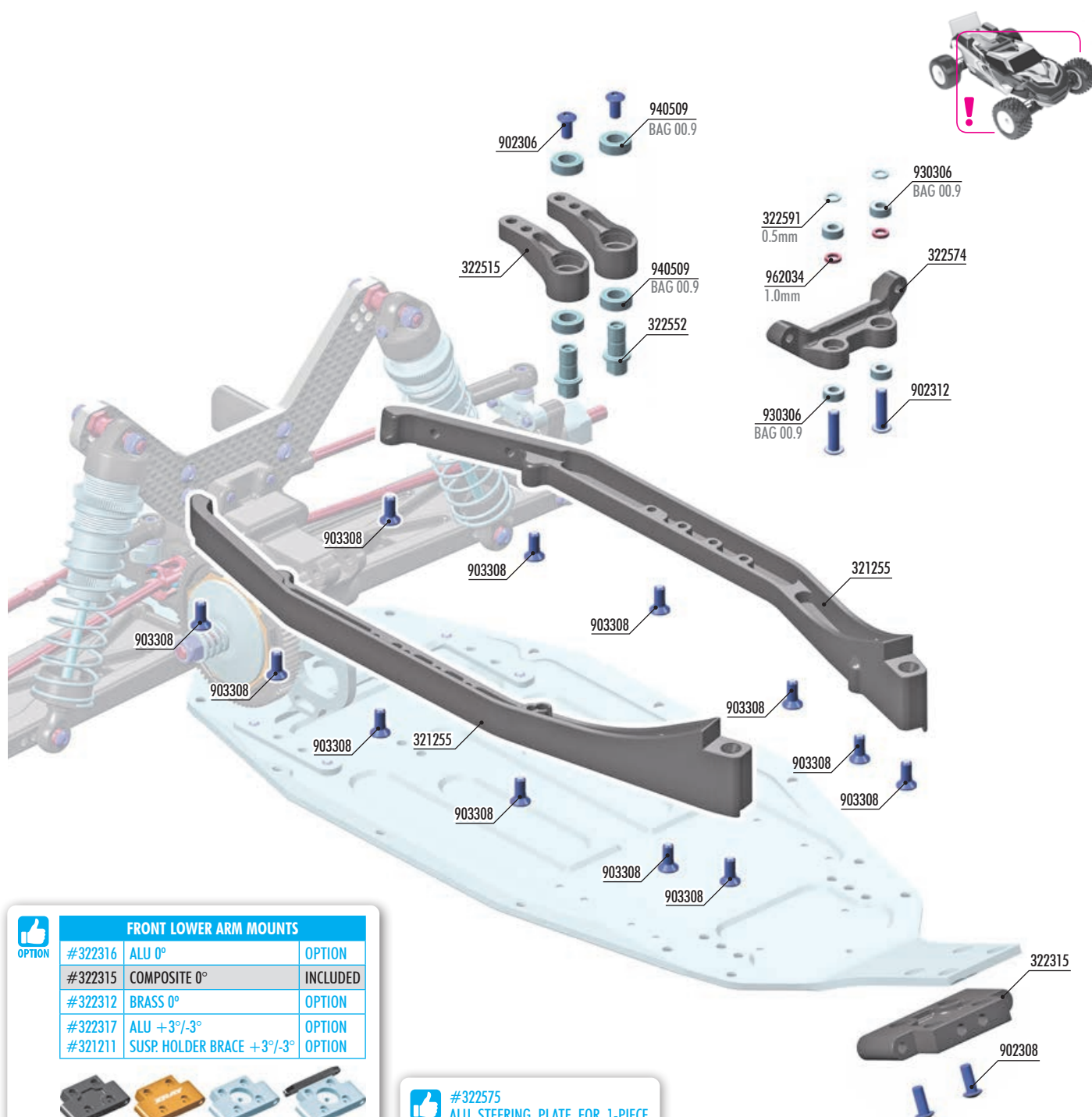
3x12mm

ASSEMBLED VIEW 

INITIAL SETTING 

INITIAL SETTING





FRONT LOWER ARM MOUNTS

#322316	ALU 0°	OPTION
#322315	COMPOSITE 0°	INCLUDED
#322312	BRASS 0°	OPTION
#322317	ALU +3°/-3°	OPTION
#321211	SUSP. HOLDER BRACE +3°/-3°	OPTION



COMPOSITE 0° BRASS 0° ALU 0° ALU +3°/-3° (+Holder)

ARM MOUNTS - WEIGHT

Composite	BRASS	ALU	ALU + Tungsten
6g	46g	13.5g	23.5g

COMPOSITE - Generates more traction in front.

ALU - Makes car more stable.

BRASS - Adds more weight in front, less weight transfer.



The alu arm mounts can be used with optional weight:
#293085 HUDY Pure Tungsten Weight - 10g.



#322575
ALU STEERING PLATE FOR 1-PIECE
CHASSIS - SET



#322516
ALU STEERING ARM FOR 1-PIECE
CHASSIS - SWISS 7075 T6 (2)



#321255-G
COMPOSITE ELEVATED SIDE BRACES
L+R - LONG - GRAPHITE



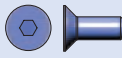
BAG

06

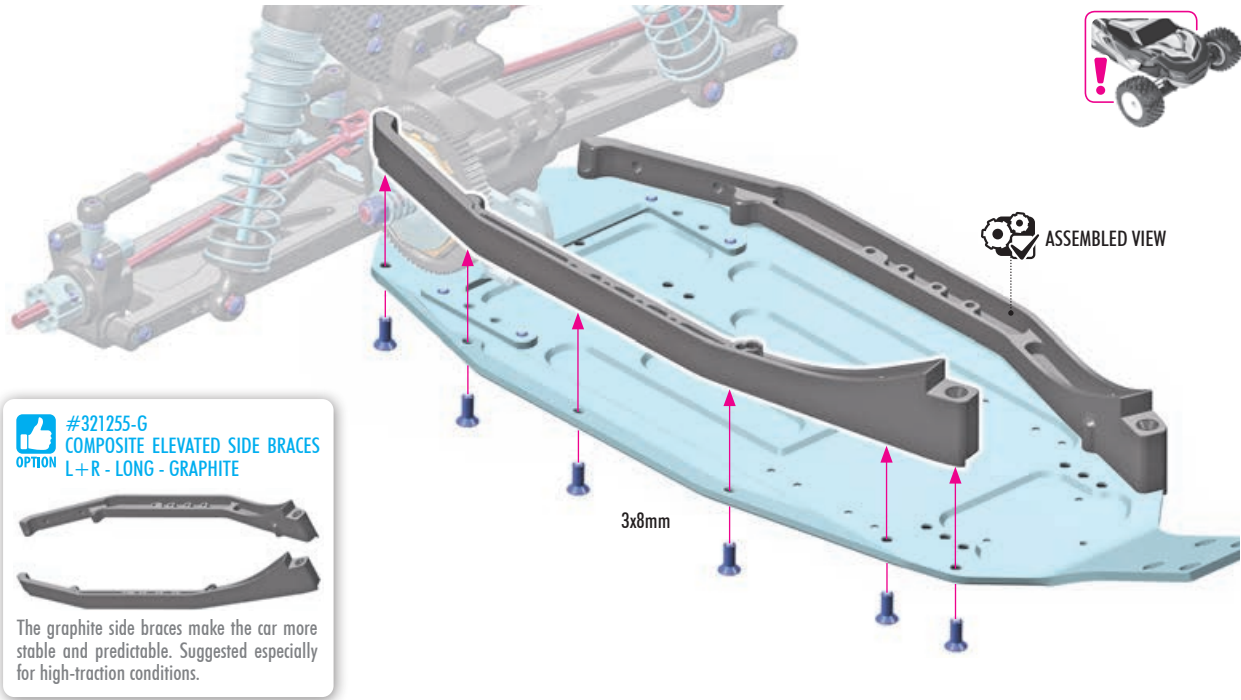
321255	COMPOSITE ELEVATED SIDE BRACES L+R - LONG
322315	COMPOSITE FRONT LOWER ARM MOUNT FOR 1-PIECE CHASSIS
322515	COMPOSITE STEERING ARM FOR 1-PIECE CHASSIS (2)
322552	ALU STEERING PIVOT SHAFT 14.8mm - SWISS 7075 T6 (2)
322574	COMPOSITE STEERING PLATE FOR 1-PIECE CHASSIS
322591	ALU SHIM 3x4.7x0.5mm (10)

902306	HEX SCREW SH M3x6 (10)
902308	HEX SCREW SH M3x8 (10)
902312	HEX SCREW SH M3x12 (10)
903308	HEX SCREW SFH M3x8 (10)
930306	BALL-BEARING 3x6x2.5mm STEEL SEALED - OIL (2)
940509	BALL-BEARING 5x9x3mm RUBBER SEALED - OIL (2)
962034	STEEL WASHER S 3x4.7x1 (10)

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



12x 903308
SFH M3x8



ASSEMBLED VIEW

3x8mm

 **#321255-G**
COMPOSITE ELEVATED SIDE BRACES
L + R - LONG - GRAPHITE

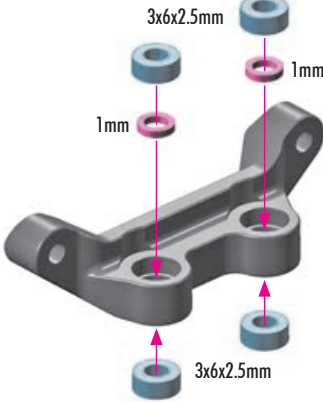
OPTION



The graphite side braces make the car more stable and predictable. Suggested especially for high-traction conditions.

2x 962034
S 3x4.7x1

4x 930306
BB 3x6x2.5



3x6x2.5mm

1mm

1mm

3x6x2.5mm

 **STEERING PLATES**

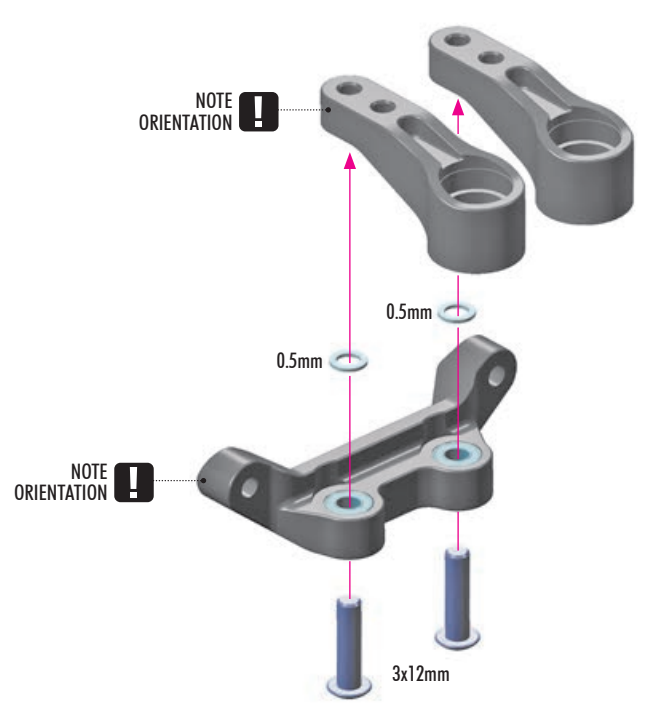
#322574	HARD	INCLUDED
#322575	ALU	OPTION



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.

2x 322591
SHIM 3x4.7x0.5

2x 902312
SH M3x12



NOTE ORIENTATION !

0.5mm

0.5mm

3x12mm

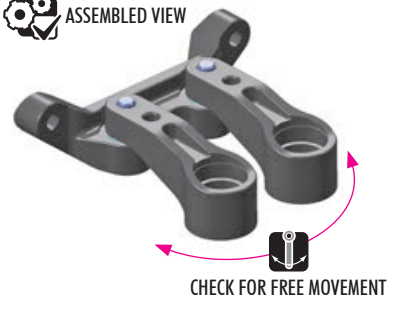
 **STEERING ARMS**

#322515	HARD	INCLUDED
#322516	ALU	OPTION



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

ASSEMBLED VIEW



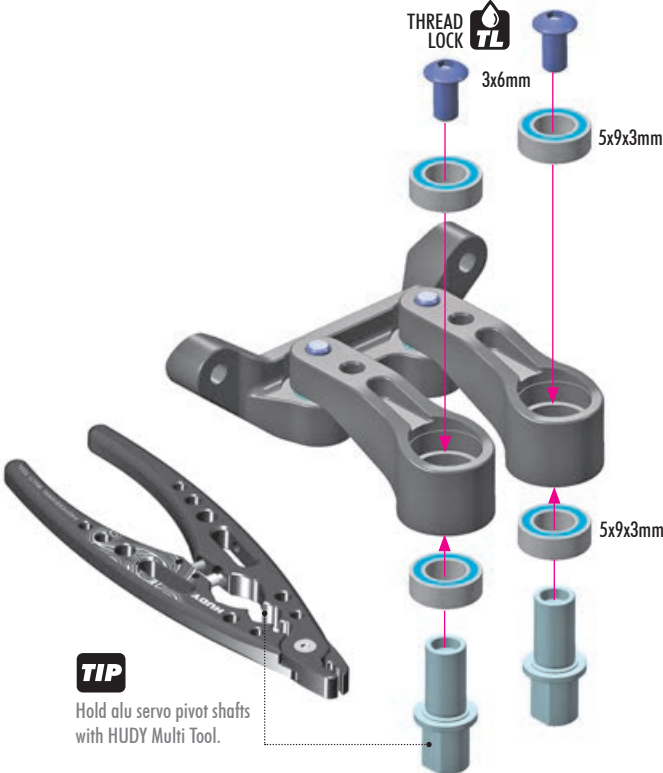
CHECK FOR FREE MOVEMENT



2x 902306
SH M3x6



4x 940509
BB 5x9x3



THREAD LOCK TL

3x6mm

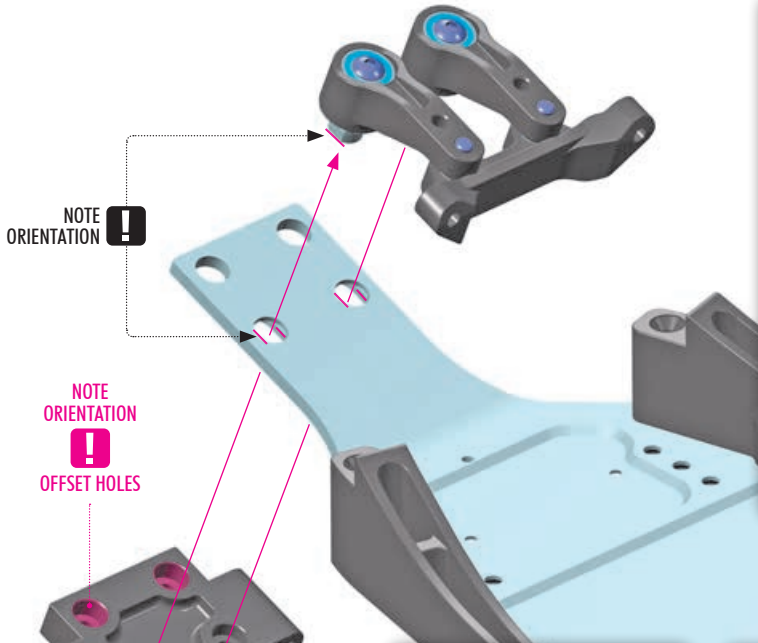
5x9x3mm

5x9x3mm

TIP
Hold alu servo pivot shafts with HUDY Multi Tool.



2x 902308
SH M3x8



NOTE ORIENTATION !

NOTE ORIENTATION !
OFFSET HOLES

3x8mm

THREAD LOCK

The alu arm mounts can be used with optional weight:

#293085
HUDY Pure Tungsten Weight - 10g
OPTION

ALU FRONT LOWER ARM MOUNTS
OPTION

FRONT LOWER ARM MOUNTS

OPTION	Part	Material	Option
#322316	ALU 0°	ALU	OPTION
#322315	COMPOSITE 0°	Composite	INCLUDED
#322312	BRASS 0°	BRASS	OPTION
#322317	ALU +3°/-3°	ALU	OPTION
#321211	SUSP. HOLDER BRACE +3°/-3°	ALU	OPTION

COMPOSITE 0° BRASS 0° ALU 0° ALU +3°/-3° (HOLDER)

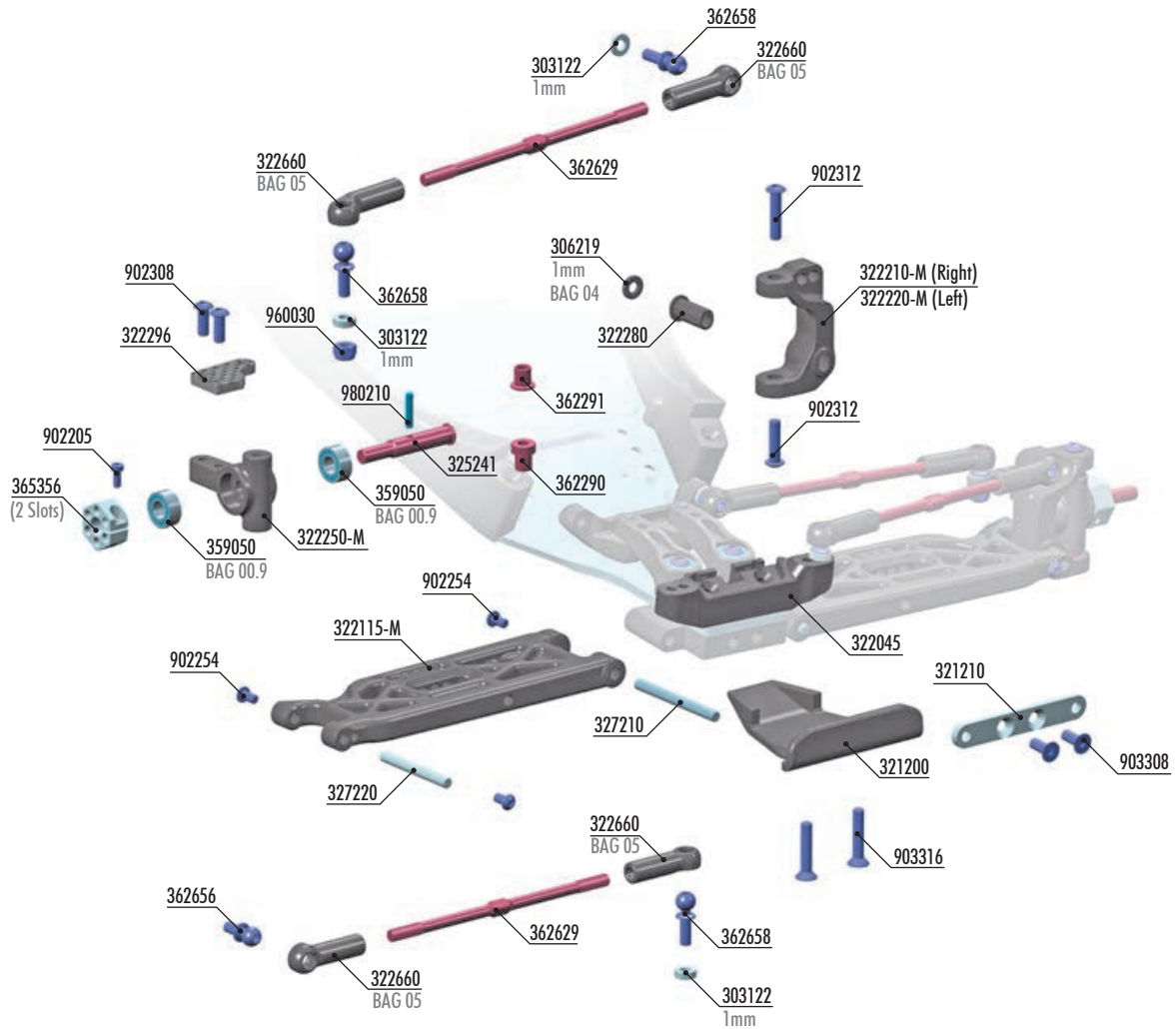
ARM MOUNTS - WEIGHT

	Composite	BRASS	ALU	ALU + Tungsten
Weight	6g	46g	13.5g	23.5g

COMPOSITE - Generates more traction in front.
ALU - Makes car more stable.
BRASS - Adds more weight in front, less weight transfer.

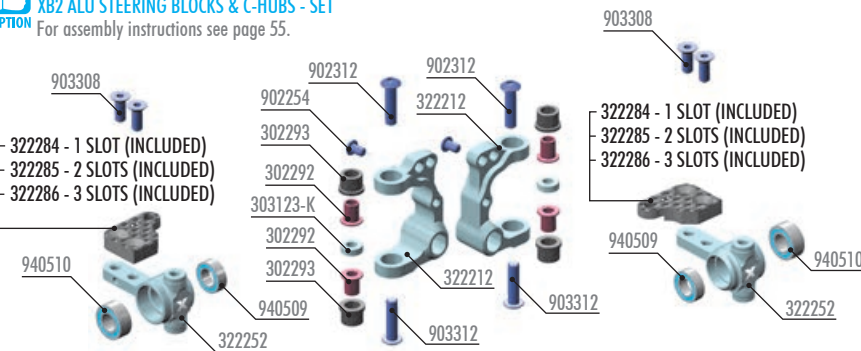
ASSEMBLED VIEW

CHECK FOR FREE MOVEMENT



#320904 XB2 ALU STEERING BLOCKS & C-HUBS - SET

OPTION For assembly instructions see page 55.



ASSEMBLED VIEW



BAG

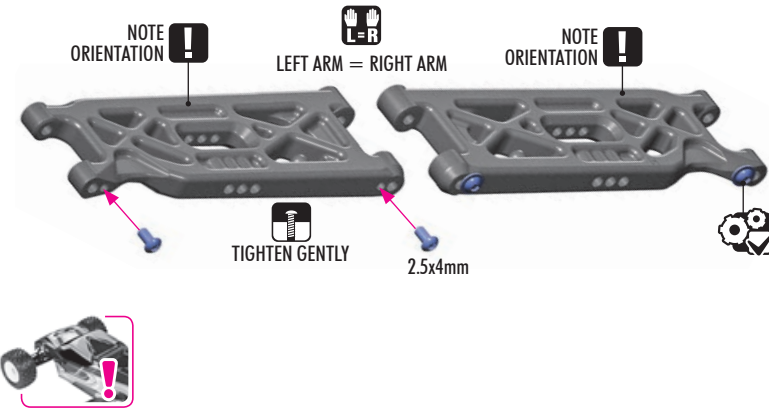
07

303122	ALU SHIM 3x6x1.0mm (10)	362629	ADJUSTABLE TURNBUCKLE 75MM M3.5 L/R - HUDY SPRING STEEL™ (2)
306219	COMPOSITE SET OF SERVO SHIMS (4)	362656	BALL ENDS 5.4mm WITH THREAD 6mm (2)
321200	COMPOSITE FRONT BUMPER	362658	BALL ENDS 5.4mm WITH THREAD 8mm (2)
321210	ALU SUSPENSION HOLDER BRACE - SWISS 7075 T6 (3mm)	365356	ALU WHEEL HUB 12mm - 2 SLOTS - OFFSET +1.50mm (2)
322045	COMPOSITE FRONT ROLL-CENTER HOLDER FOR BRIDGE UPPER DECK		
322115-M	XT2 COMPOSITE SUSPENSION ARM FRONT LOWER - SOLID - MEDIUM	359050	BALL-BEARING 5x10x4 STEEL SEALED - GREASE (2)
322210-M	COMPOSITE C-HUB 0° DEG. RIGHT - MEDIUM	902205	HEX SCREW SH M2x5 (10)
322220-M	COMPOSITE C-HUB 0° DEG. LEFT - MEDIUM	902254	HEX SCREW SH M2.5x4 (10)
322250-M	COMPOSITE STEERING BLOCK - MEDIUM	902308	HEX SCREW SH M3x8 (10)
322280	COMPOSITE CASTER ECCENTRIC BUSHING (2+2+2)	902312	HEX SCREW SH M3x12 (10)
322296	CARBON EXTENSION FOR STEERING BLOCK - 3 DOTS (2)	903308	HEX SCREW SFH M3x8 (10)
322660	COMPOSITE BALL JOINT 5.4mm (12+1+1)	903316	HEX SCREW SFH M3x16 (10)
325241	XT2 FRONT DRIVE AXLE - HUDY SPRING STEEL™	960030	NUT M3 (10)
327210	FRONT SUSPENSION PIVOT PIN 3x35mm (2)	980210	PIN 2x9.8 (10)
327220	FRONT ARM PIVOT PIN 3x28mm (2)		
362290	STEEL STEERING BUSHING - SHORT (2)		
362291	STEEL STEERING BUSHING - LONG (2)		

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



2x



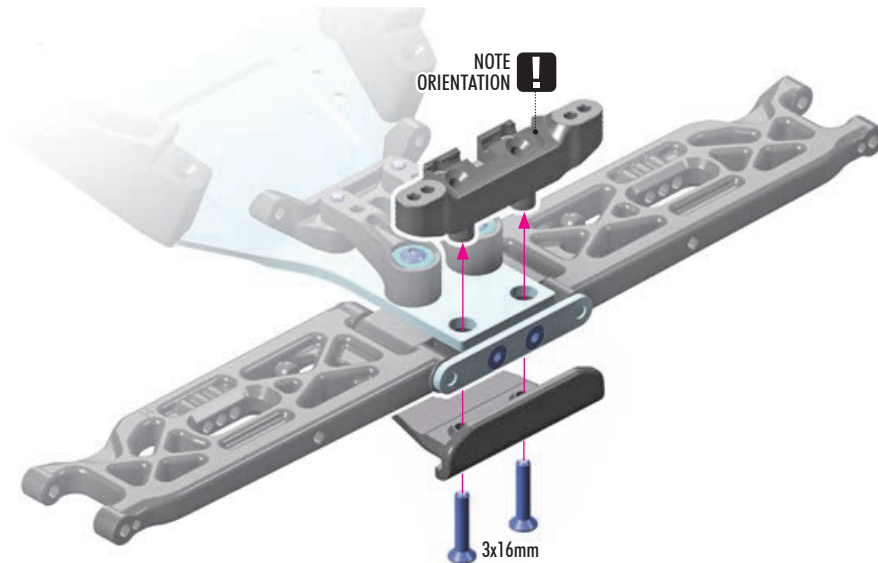
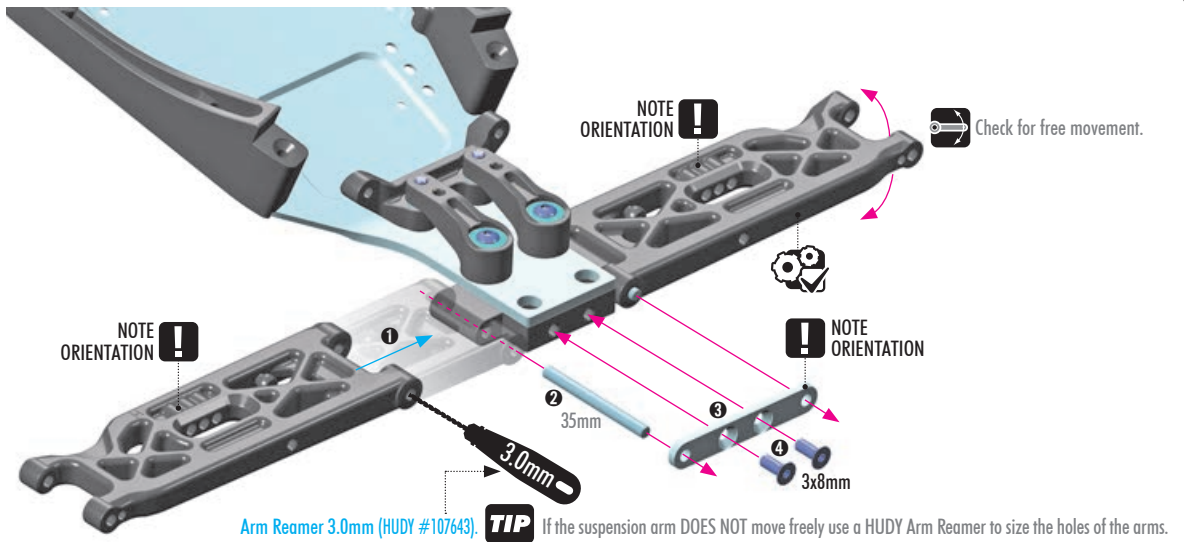
FRONT SUSPENSION ARMS

#322114-H	HARD	OPTION
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FRONT SOLID SUSPENSION ARMS

#322115-M	MEDIUM	INCLUDED
#322115-H	HARD	OPTION
#322115-G	GRAPHITE	OPTION

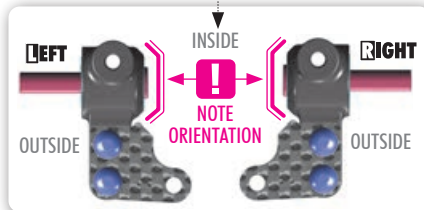
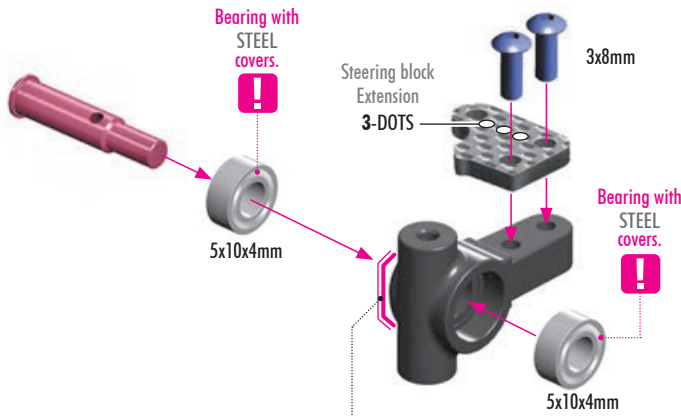


#322046
ALU FRONT ROLL-CENTER HOLDER
FOR BRIDGE UPPER DECK



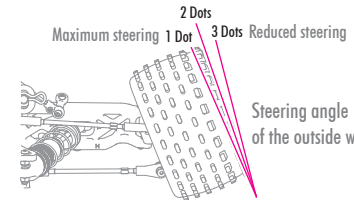


2x
L=R



STEERING BLOCK EXTENSION

#322294	1 DOT	OPTION
#322295	2 DOTS	OPTION
#322296	3 DOTS	INCLUDED



STEERING BLOCKS

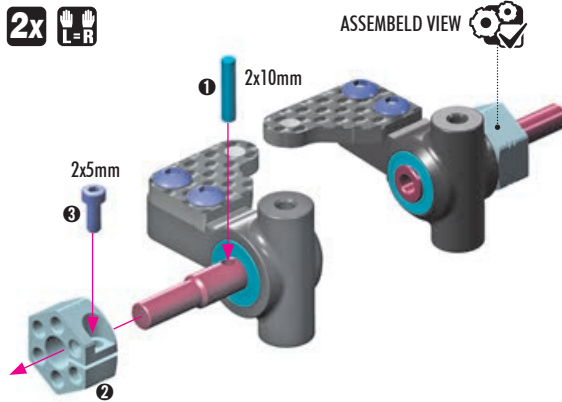
#322250-M	MEDIUM	INCLUDED
#322250-H	HARD	OPTION
#322250-G	GRAPHITE	OPTION



MEDIUM - More steering on low traction.
HARD - More free in corner on high traction.
GRAPHITE - Less stopping in corner on high traction.



2x
L=R

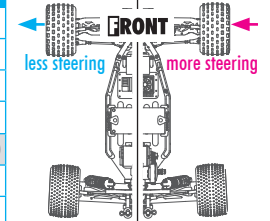


WHEEL HEX HUBS 12MM

#365360	+4.5mm	6 SLOTS	OPTION
#365359	+3.75mm	5 SLOTS	OPTION
#365358	+3.0mm	4 SLOTS	OPTION
#365357	+2.25mm	3 SLOTS	OPTION
#365356	+1.5mm	2 SLOTS	INCLUDED
#365355	+0.75mm	1 SLOT	OPTION
#365353	0mm	0 SLOTS	OPTION
#365354	-0.75mm	Lightw.	OPTION
#365361	-1.25mm	Lightw.	OPTION



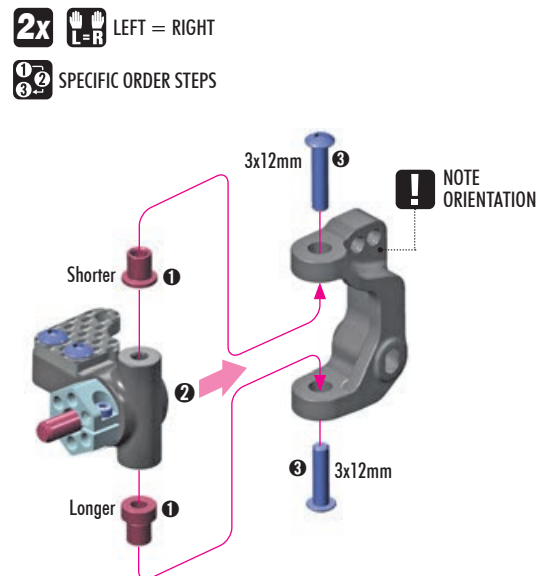
MORE OFF-SET LESS OFF-SET



OPTIONAL HEX HUB EFFECTS
Different off-set hex hubs are used to increase or decrease the track-width.



2x
L=R
LEFT = RIGHT
SPECIFIC ORDER STEPS



#320904
ALU STEERING BLOCKS & C-HUBS WITH BACKSTOP - SET



C-HUBS

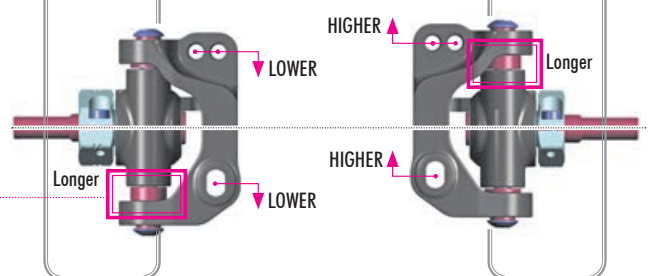
#322210-M	RIGHT	MEDIUM	INCLUDED
#322210-H	RIGHT	HARD	OPTION
#322210-G	RIGHT	GRAPHITE	OPTION
#322220-M	LEFT	MEDIUM	INCLUDED
#322220-H	LEFT	HARD	OPTION
#322220-G	LEFT	GRAPHITE	OPTION

MEDIUM - For low traction. More steering on low traction.
HARD - For medium traction. More steering, more free in corners.
GRAPHITE - For high traction. More precise steering, less stopping in corners.



INITIAL SETTING
BOTTOM = LONGER bushing
TOP = SHORTER bushing
Recommended for smooth tracks to gain more steering.

ROLL CENTER ALTERNATIVE

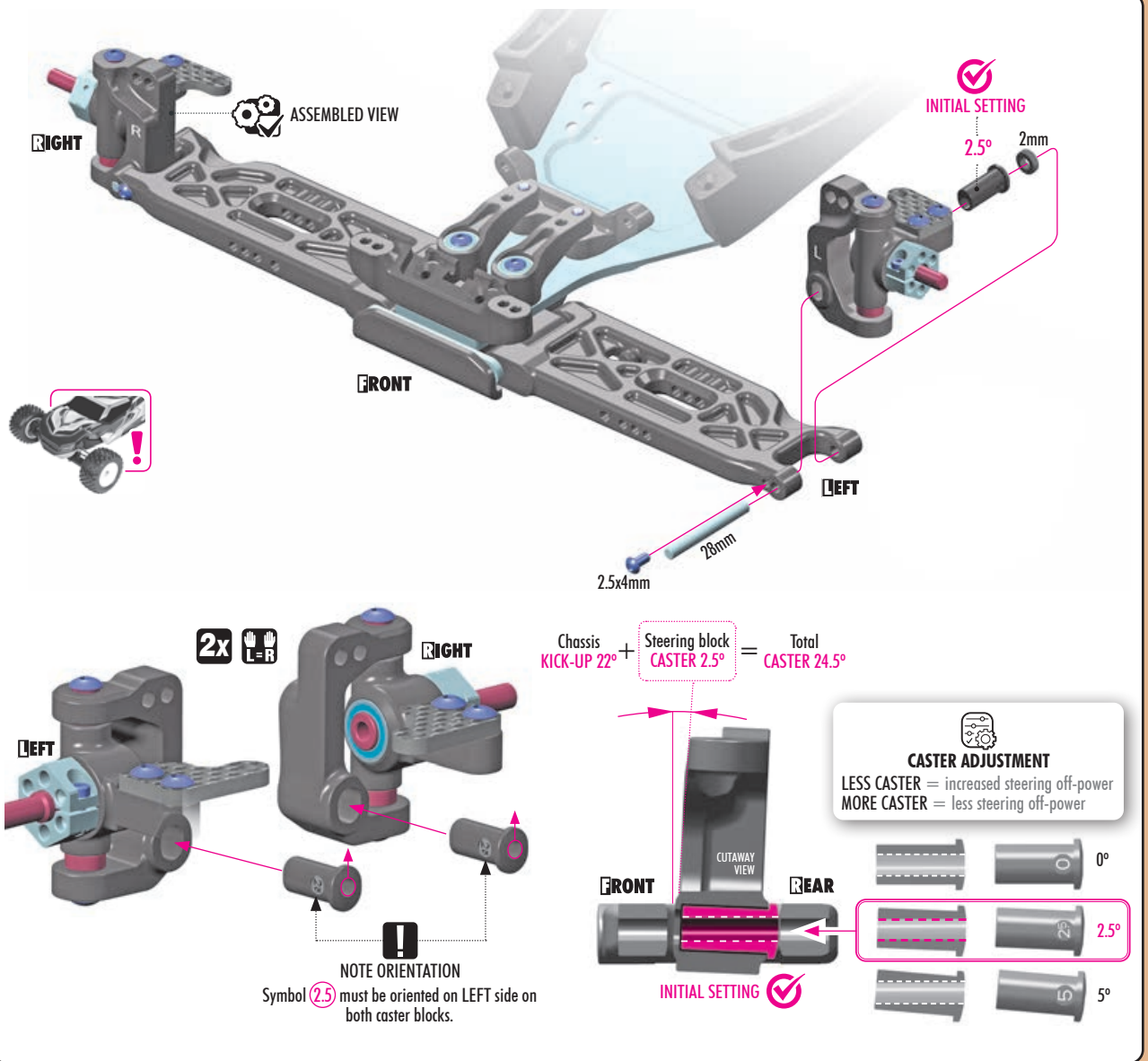


10

2x 306219
SHIM 3x6x1

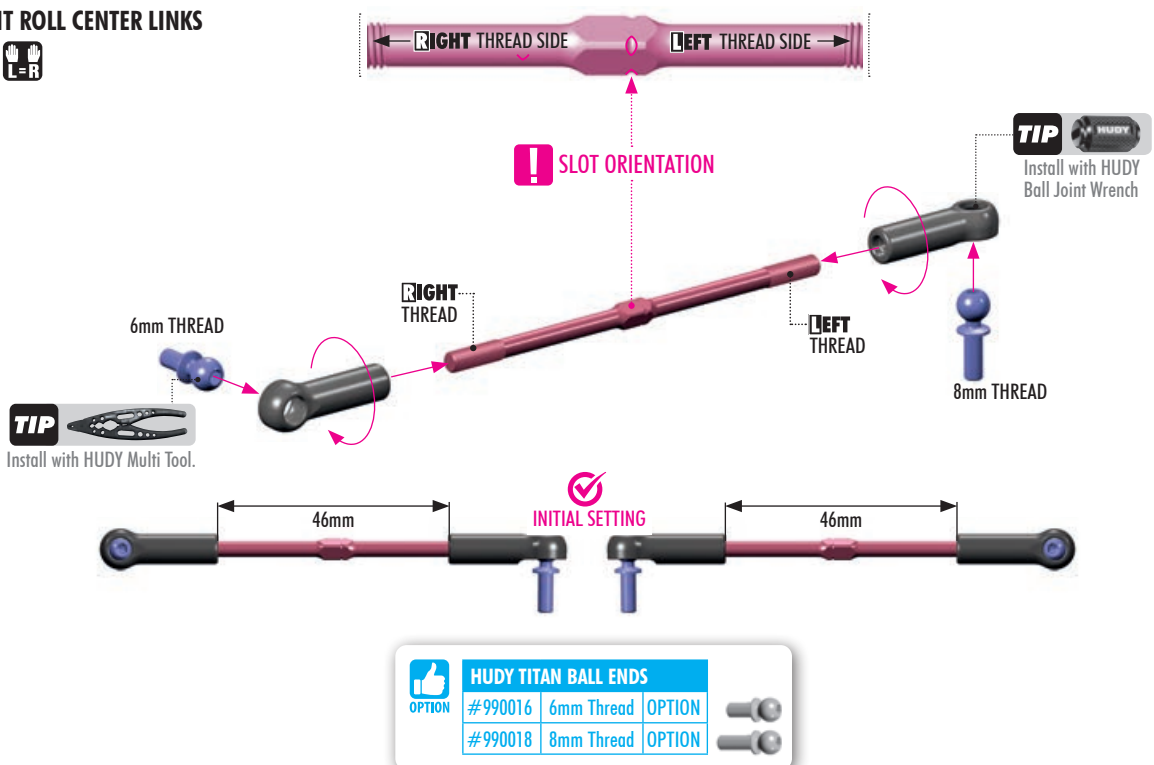


2x 902254
SH M2.5x4



FRONT ROLL CENTER LINKS

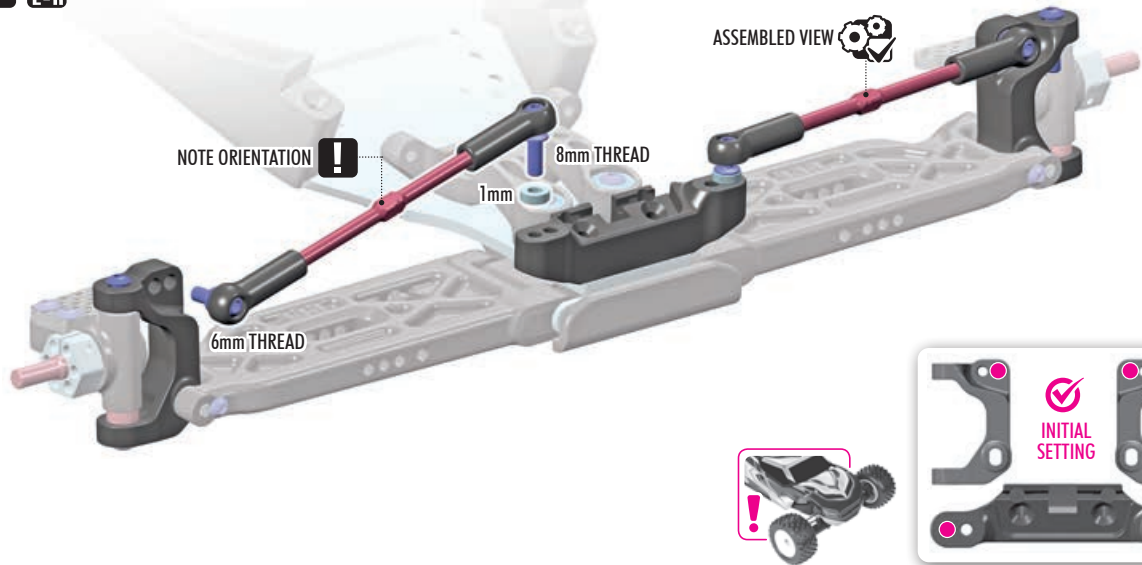
2x **L-R**





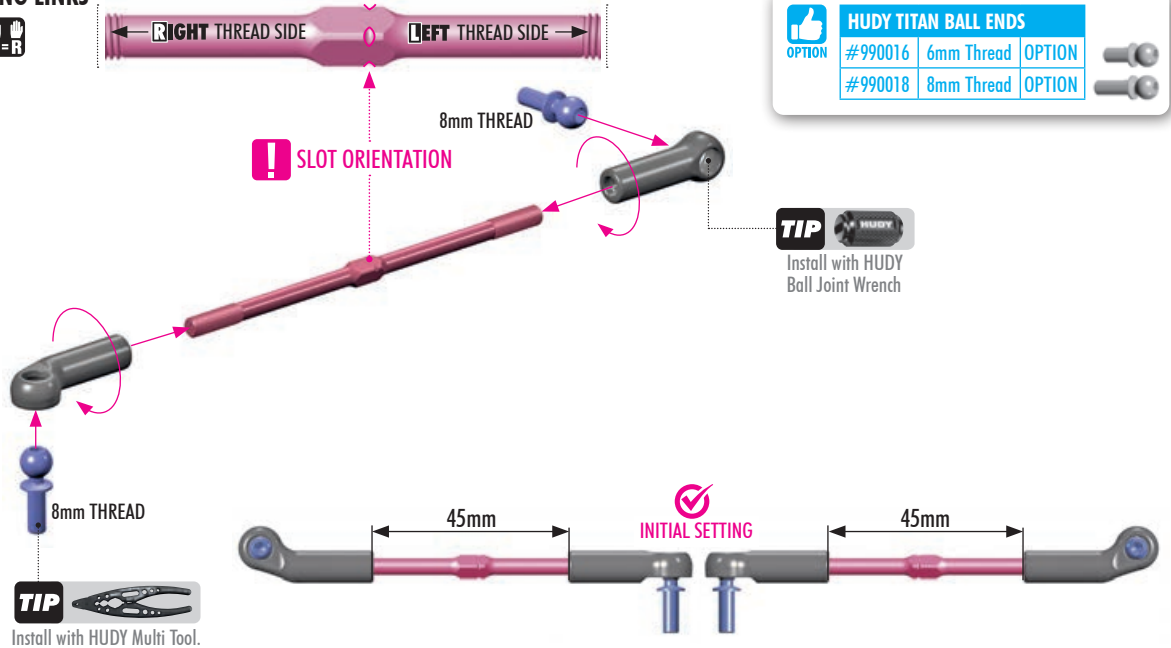
FRONT ROLL CENTER LINKS

2x L=R



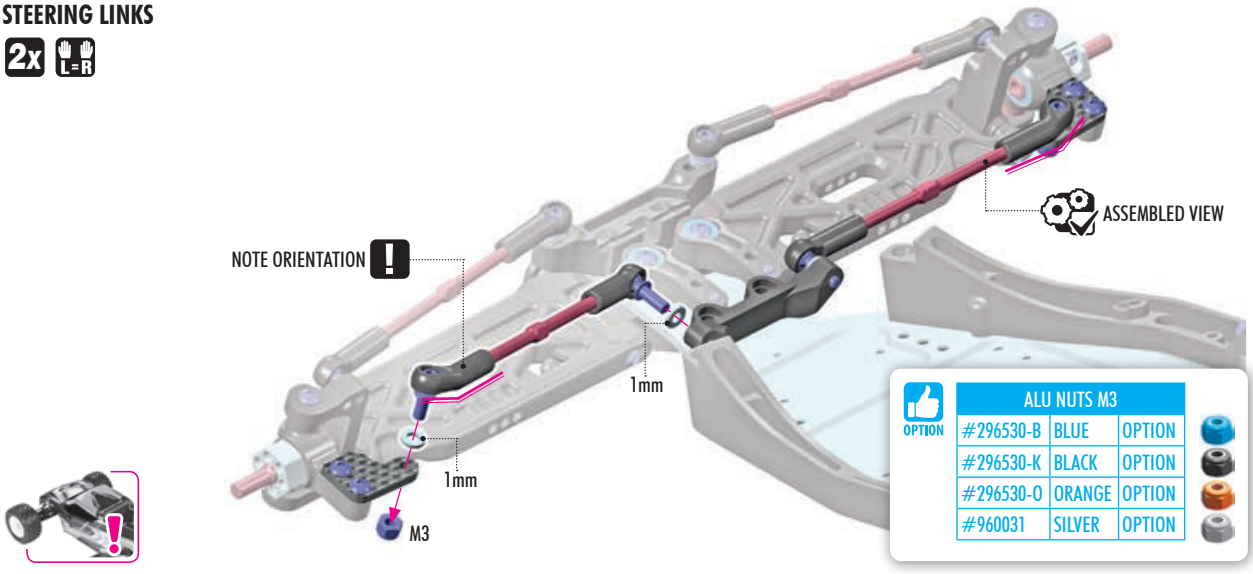
STEERING LINKS

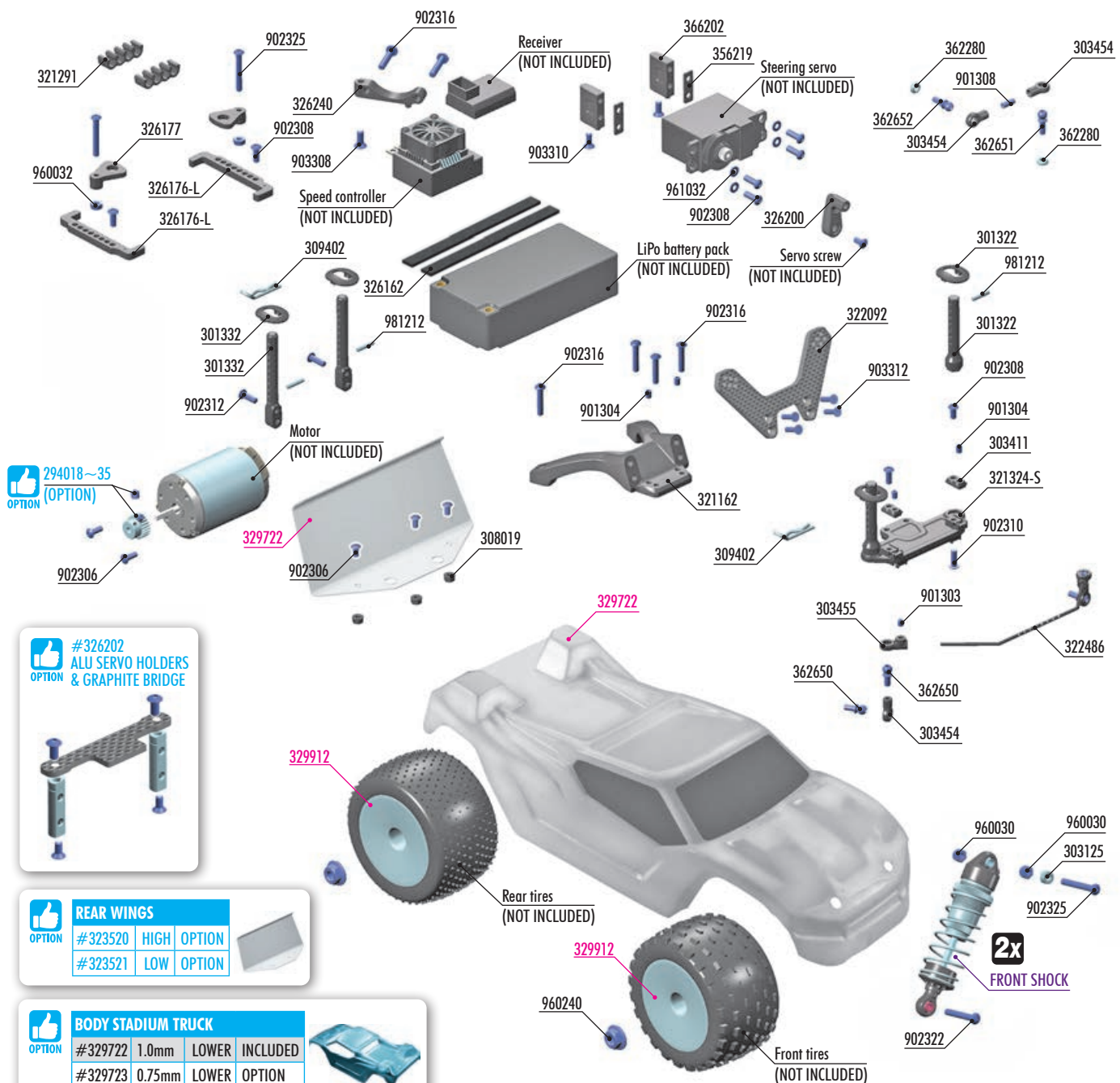
2x L=R



STEERING LINKS

2x L=R





BAG

08

294018~365735 PINION GEAR HARDCOATED 18~35T/48P (OPTION)

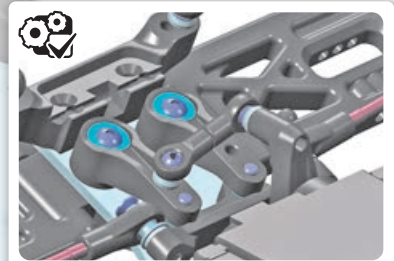
301322	FRONT BODY MOUNT SET 6mm
301332	REAR BODY MOUNT SET 6mm
303125	ALU SHIM 3x6x3.0mm (10)
303411	COMPOSITE ANTI-ROLL BAR HOLDERS
303454	BALL JOINT 4.9mm - OPEN (4)
303455	COMPOSITE ANTI-ROLL BAR BALL JOINT 4.9mm (4)
308019	COMPOSITE SET OF SHOCKS SHIMS & NUTS (2)
309402	BODY CLIP FOR 6mm BODY POST (4)
321162	COMPOSITE FRONT BRIDGE UPPER DECK
321291	COMPOSITE 5-WIRES HOLDER - SET
321324-S	XT2 COMPOSITE FRONT BODY MOUNT FOR 1-PIECE CHASSIS - SOFT
322092	XT2 CARBON SHOCK TOWER FOR BRIDGE UPPER DECK - LOWER - FRONT
322486	XT2 FRONT ANTI-ROLL BAR 1.6mm
326162	SELF-ADHESIVE RUBBER 1.5x6.5x155mm (2)
326176-L	COMPOSITE LIPO BATTERY HOLDER - LONG (2+2)
326177	COMPOSITE BATTERY CLAMP (2)
326200	COMPOSITE STEERING SERVO ARMS - EXTENDED - 23T + 25T
326240	COMPOSITE FAN HOLDER
356219	COMPOSITE SERVO SHIMS 1.0, 1.5 & 2.5mm (2+2+2)
362280	ALU CONICAL SHIM 3x6x2.0mm (10)
362650	BALL END 4.9mm WITH THREAD 6mm (2)
362651	BALL END 4.9mm WITH THREAD 8mm (2)
362652	BALL END 4.9mm WITH THREAD 10mm (2)
366202	COMPOSITE SERVO MOUNT - HIGHER

901303	HEX SCREW SB M3x3 (10)
901304	HEX SCREW SB M3x4 (10)
901308	HEX SCREW SB M3x8 (10)
902306	HEX SCREW SH M3x6 (10)
902308	HEX SCREW SH M3x8 (10)
902310	HEX SCREW SH M3x10 (10)
902312	HEX SCREW SH M3x12 (10)
902316	HEX SCREW SH M3x16 (10)
902322	HEX SCREW SH M3x22 (10)
902325	HEX SCREW SH M3x25 (10)
903308	HEX SCREW SFH M3x8 (10)
903310	HEX SCREW SFH M3x10 (10)
903312	HEX SCREW SFH M3x12 (10)
960030	NUT M3 (10)
960032	NUT M3 - BLACK (10)
960240	NUT M4 WITH SERRATED FLANGE (10)
961032	WASHER S 3.2 (10)
981212	PIN 2x12 (10)

329722 BODY 1/10 2WD STADIUM TRUCK - LOWER
329912 STADIUM TRUCK WHEEL WITH 12mm HEX - WHITE (2)

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

DIRT

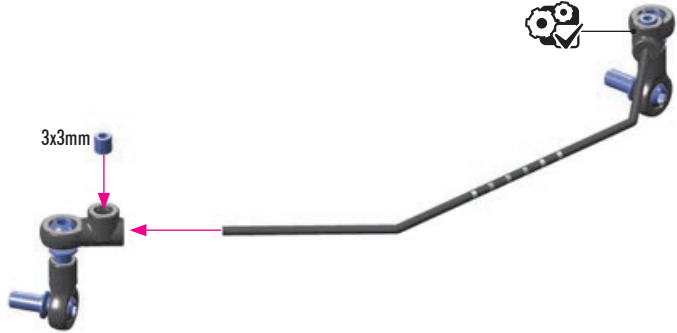


8. FINAL ASSEMBLY

CARPET

DIRT

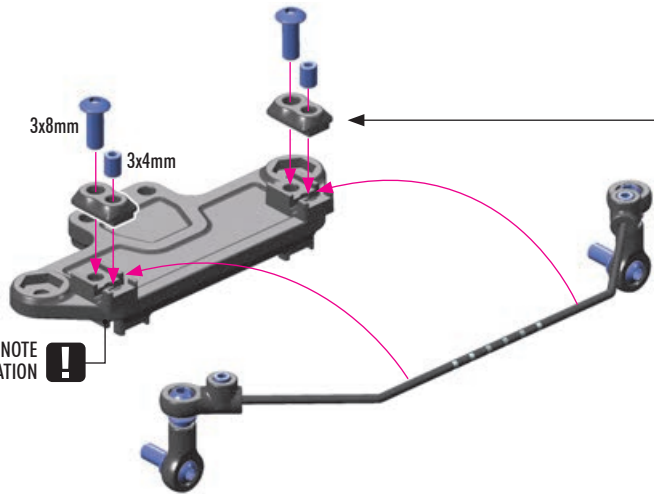
2x 901303
SB M3x3



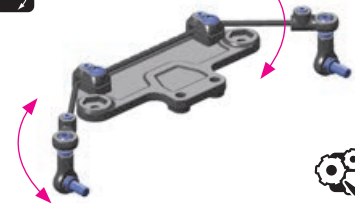
ANTI-ROLL BARS		
#322484	1.4mm	OPTION
#322486	1.6mm	INCLUDED
#322488	1.8mm	OPTION

2x 901304
SB M3x4

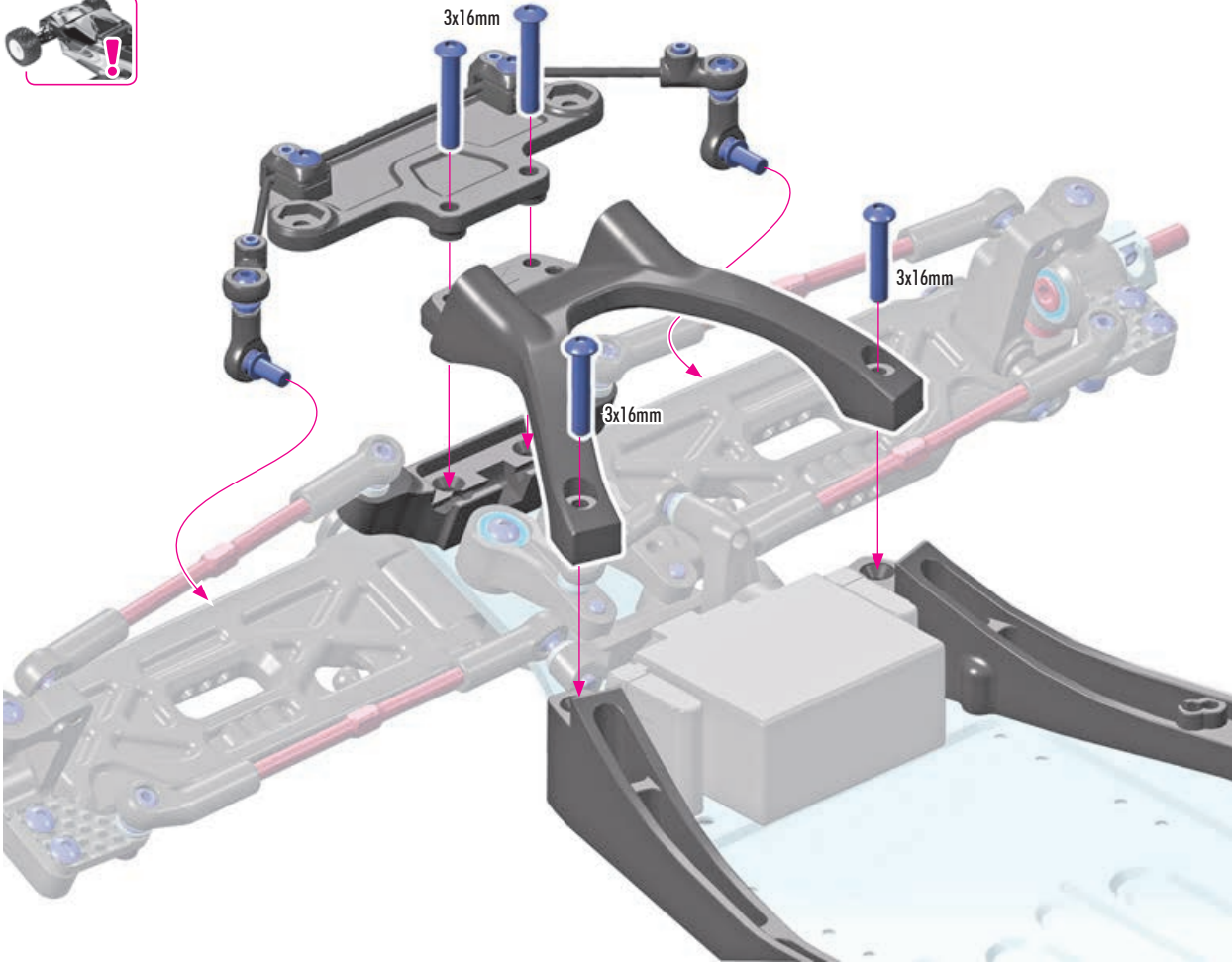
2x 902308
SH M3x8



Check for free movement.

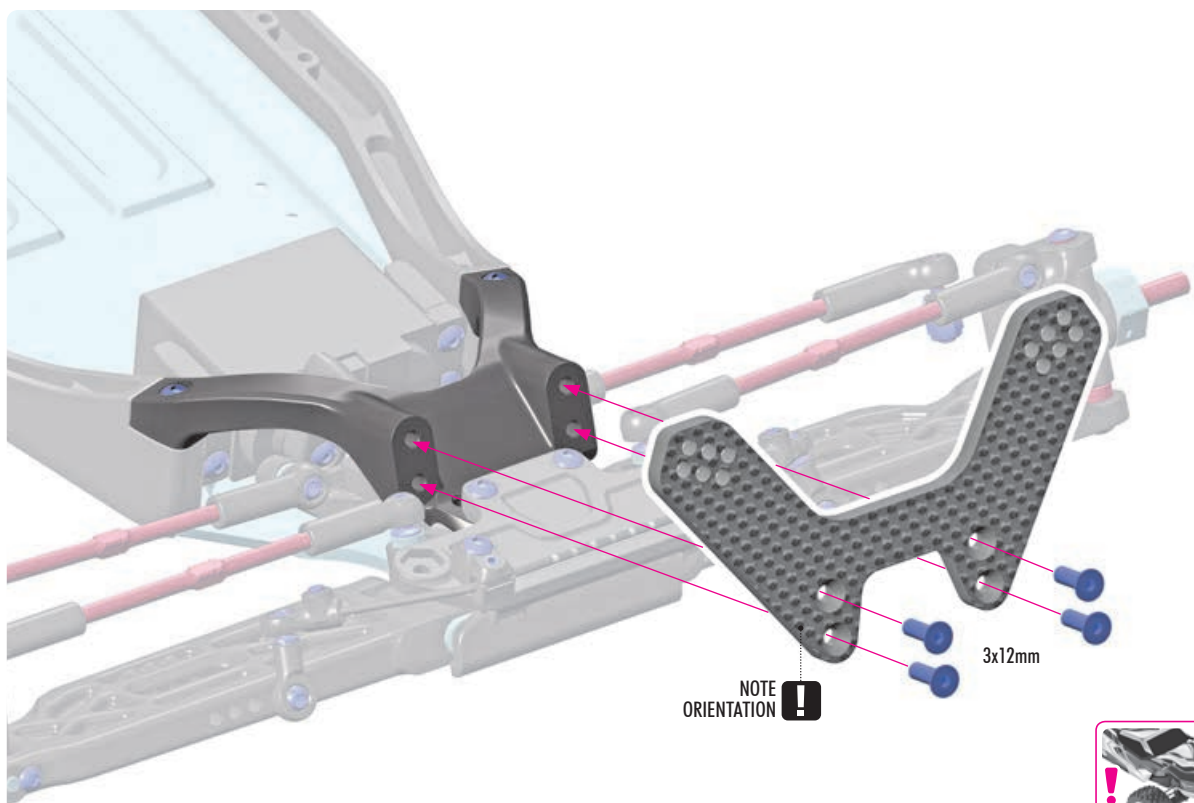


4x 902316
SH M3x16





4x 903312
SFH M3x12



2x 303125
SHIM 3x6x3



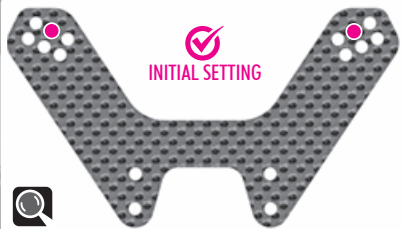
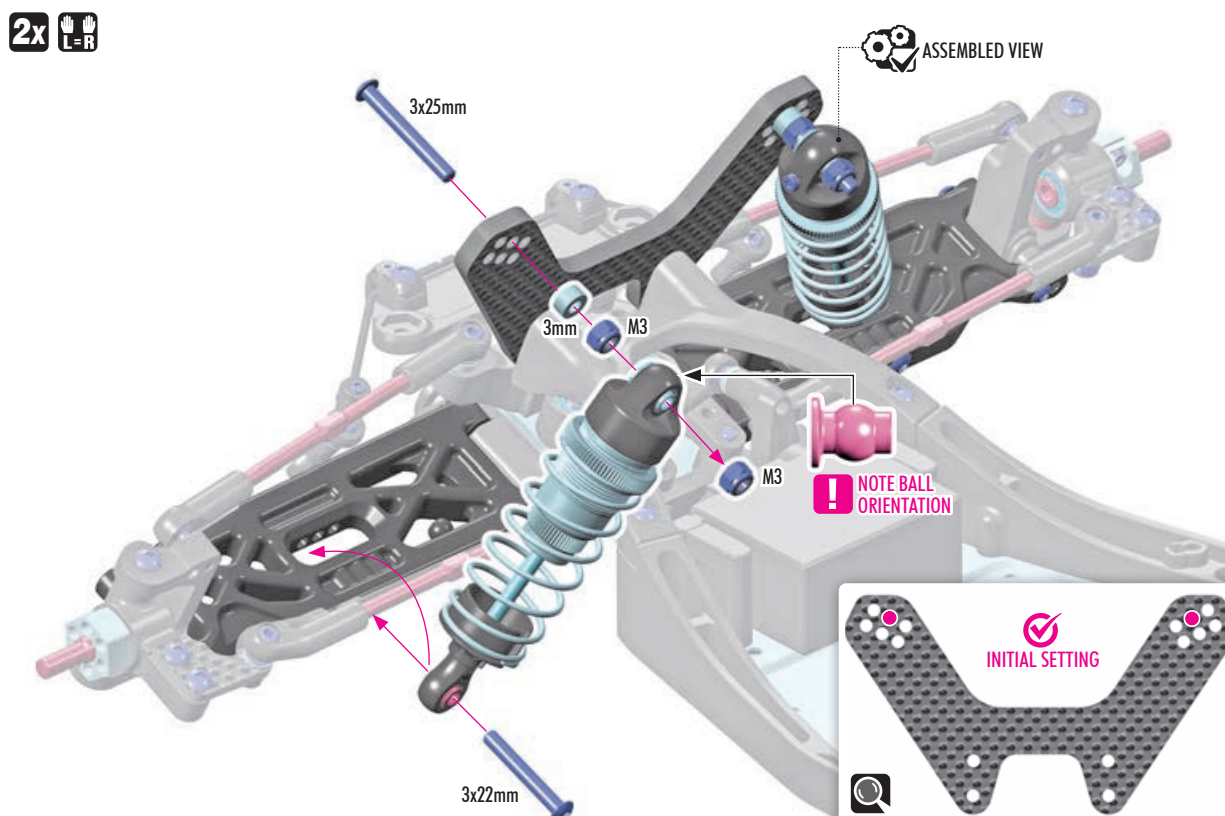
2x 902322
SH M3x22



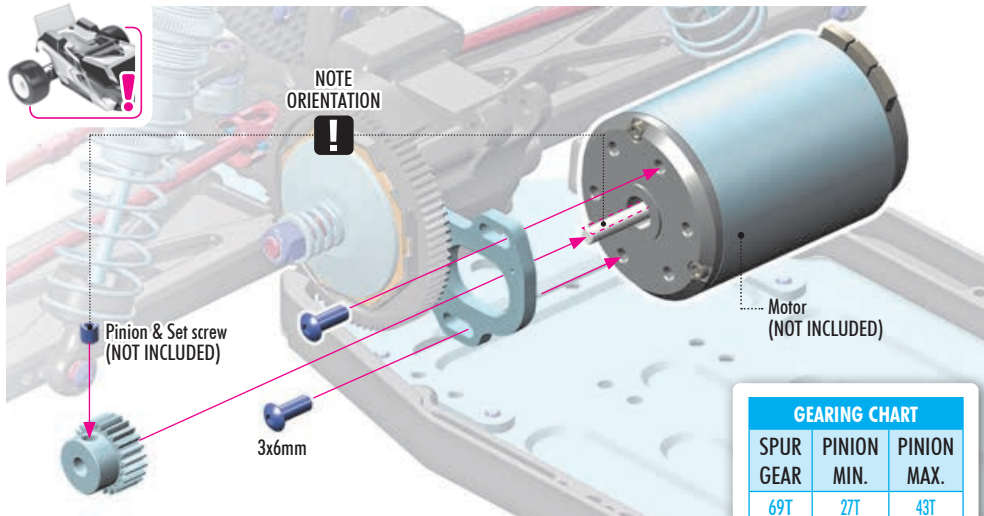
2x 902325
SH M3x25



4x 960030
NUT M3



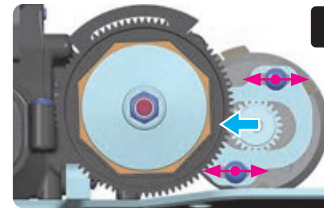
 2x 902306 SH M3x6

 NOTE ORIENTATION !

Pinion & Set screw (NOT INCLUDED)

3x6mm

Motor (NOT INCLUDED)

 ! GEAR MESH

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

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

GEARING CHART

SPUR GEAR	PINION MIN.	PINION MAX.
69T	27T	43T
72T	24T	40T
75T	21T	37T
78T	18T	34T
81T	15T	31T

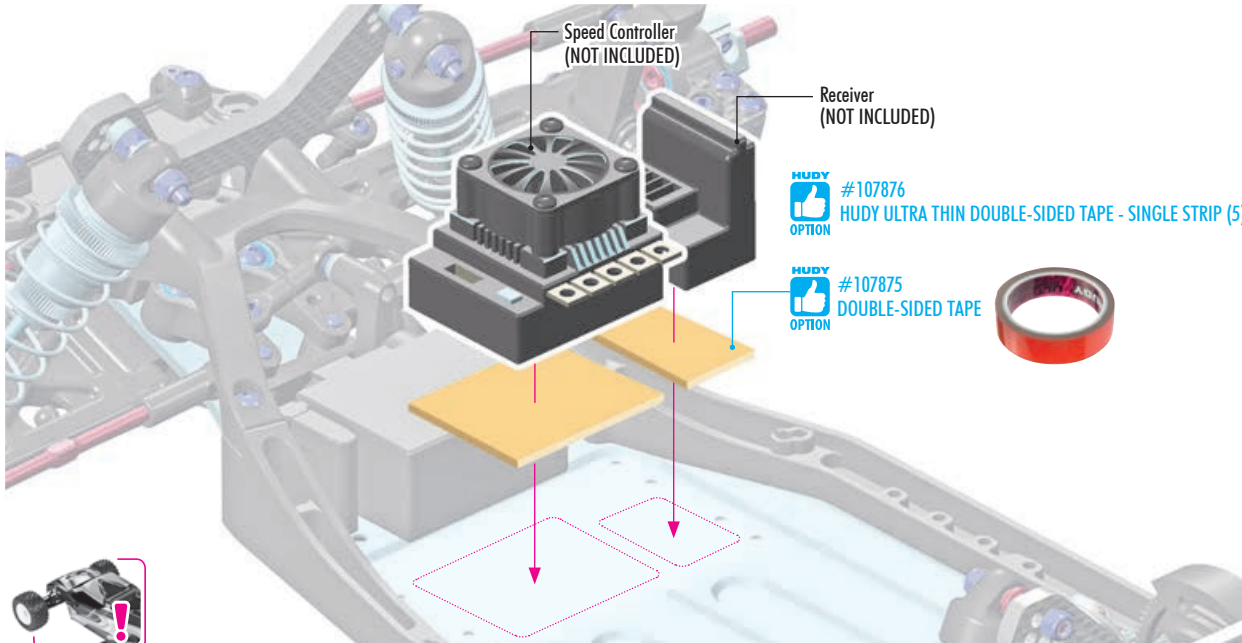
GEAR RATIO Final Drive Ratio

78 : X x 2.65 = FDR

(Spur) (Pinion) (IGR)

 PINIONS (48P)

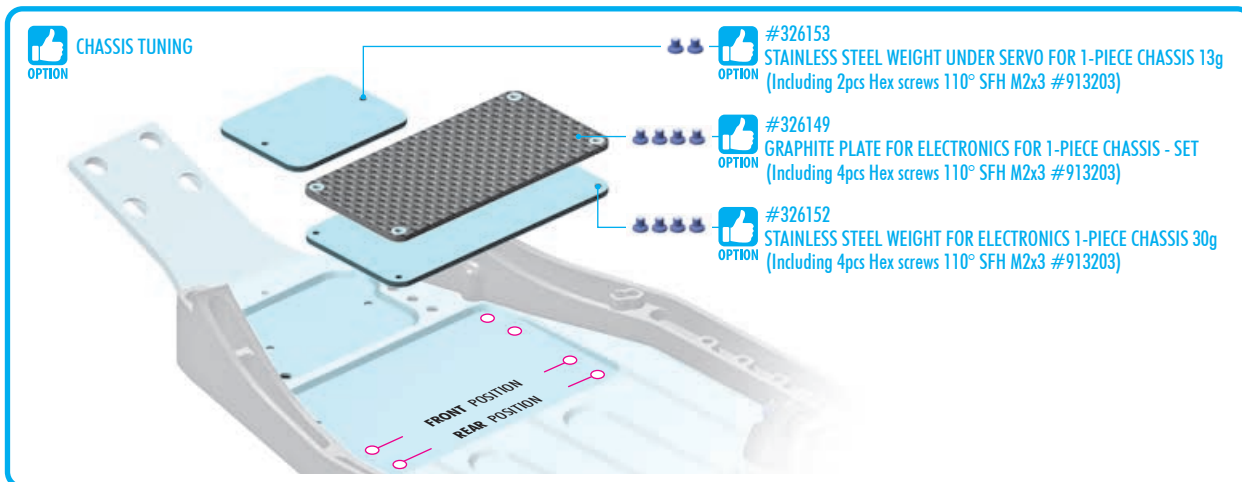
#294017	17T
#294018	18T
#294019	19T
#294020	20T
#294021	21T
#294022	22T
#294023	23T
#294024	24T
#294025	25T
#365726	26T
#365727	27T
#365728	28T
#365729	29T
#365730	30T
#365731	31T
#365732	32T
#365733	33T
#365734	34T
#365735	35T
#365736	36T
#365737	37T
#365738	38T

 Speed Controller (NOT INCLUDED)

Receiver (NOT INCLUDED)

 #107876 HUDY ULTRA THIN DOUBLE-SIDED TAPE - SINGLE STRIP (5)

 #107875 DOUBLE-SIDED TAPE

 CHASSIS TUNING

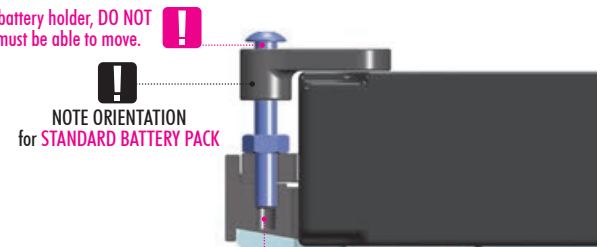
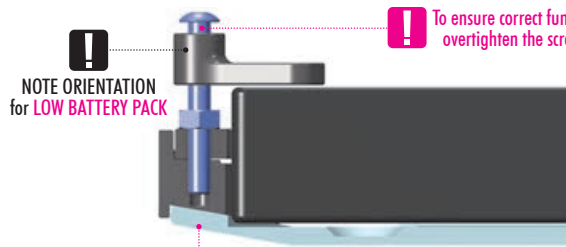
 #326153 STAINLESS STEEL WEIGHT UNDER SERVO FOR 1-PIECE CHASSIS 13g (Including 2pcs Hex screws 110° SFH M2x3 #913203)

 #326149 GRAPHITE PLATE FOR ELECTRONICS FOR 1-PIECE CHASSIS - SET (Including 4pcs Hex screws 110° SFH M2x3 #913203)

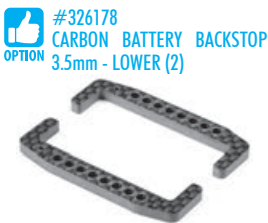
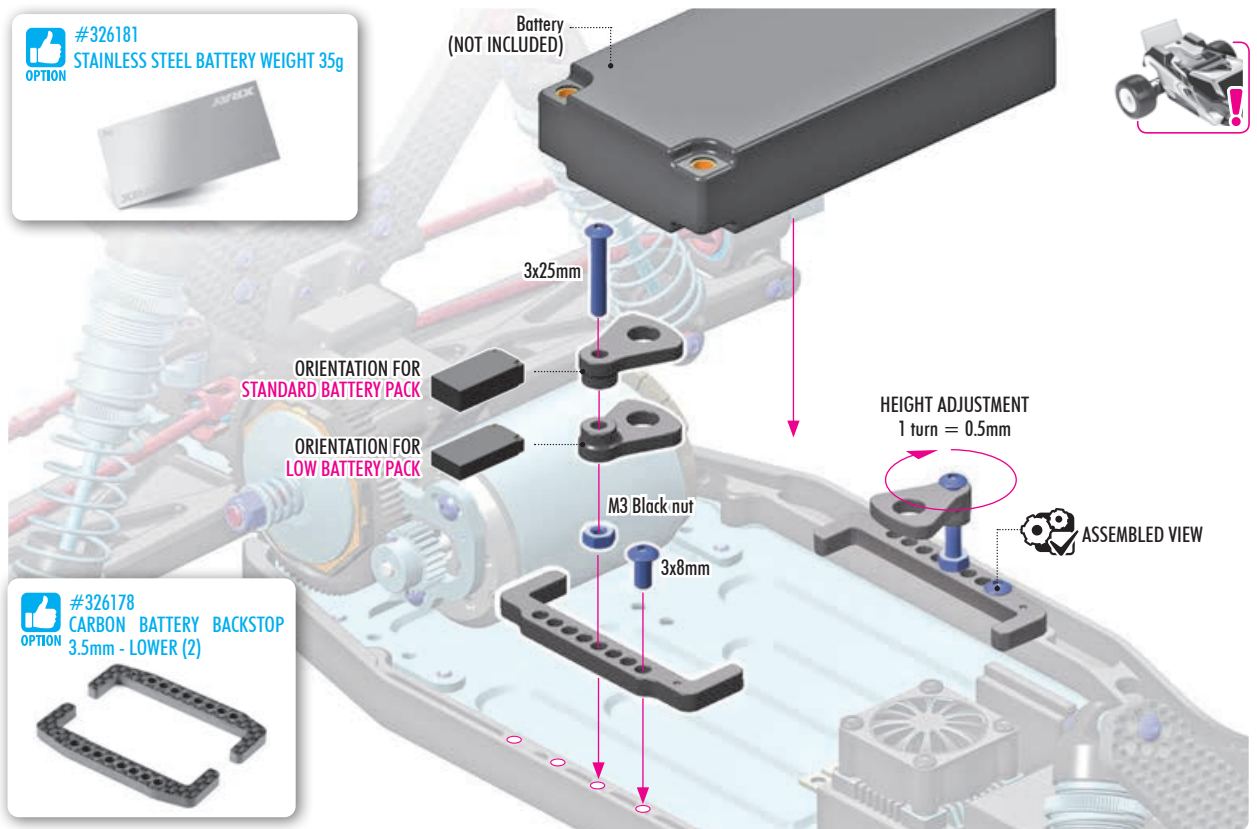
 #326152 STAINLESS STEEL WEIGHT FOR ELECTRONICS 1-PIECE CHASSIS 30g (Including 4pcs Hex screws 110° SFH M2x3 #913203)

FRONT POSITION

REAR POSITION



DO NOT overtighten the screw to avoid side guard damage.



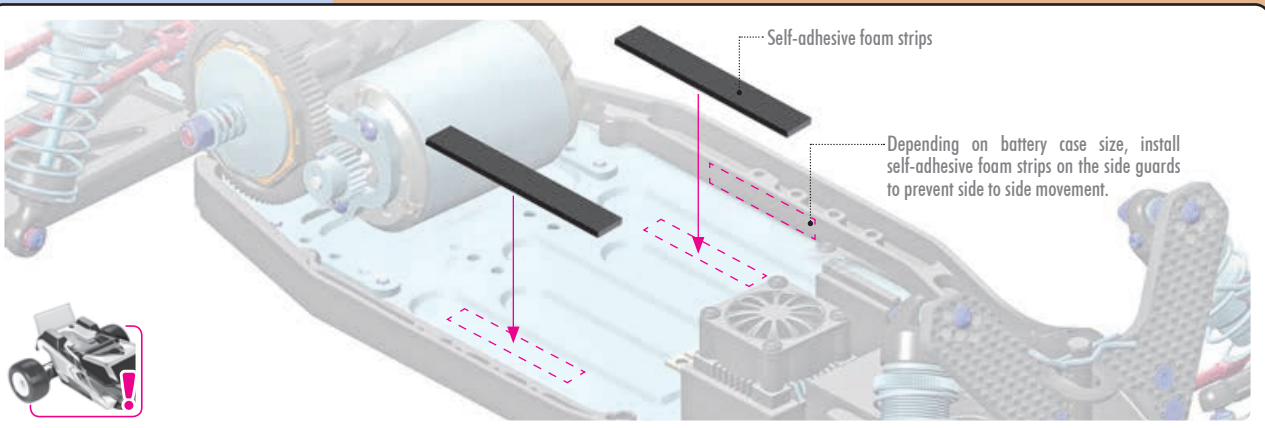
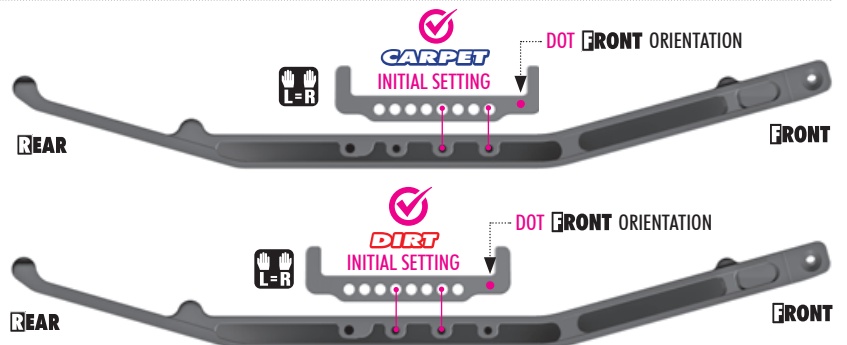
BATTERY POSITION SETTING

CARPET

For **INITIAL SETTING** place battery in maximum FORWARD location.

DIRT

For **INITIAL SETTING** place battery in maximum REARWARD location.



BATTERY WEIGHT BALANCE ADJUSTMENT

NOTE DOT ORIENTATION

FRONT REAR

MAXIMUM REAR POSITION

MAXIMUM FRONT POSITION

FRONT REAR

NOTE DOT ORIENTATION

NOTE DOT ORIENTATION

INCORRECT

NOTE DOT ORIENTATION

CORRECT

NOTE DOT ORIENTATION

MAXIMUM FRONTWARD POSITION

MIDDLE POSITION

MAXIMUM REARWARD POSITION

2x 902310 SH M3x10

2x 981212 P 2x12

2x L=R

ASSEMBLED VIEW

2x12mm

3x10mm

FRONT BODY MOUNT SETS

OPTION	FRONT BODY MOUNT SETS		
#301322	0mm	INCLUDED	
#301323	+1mm	OPTION	
#301324	+2mm	OPTION	

2x 902312 SH M3x12

2x 981212 P 2x12

2x L=R

ASSEMBLED VIEW

2x12mm

3x12mm

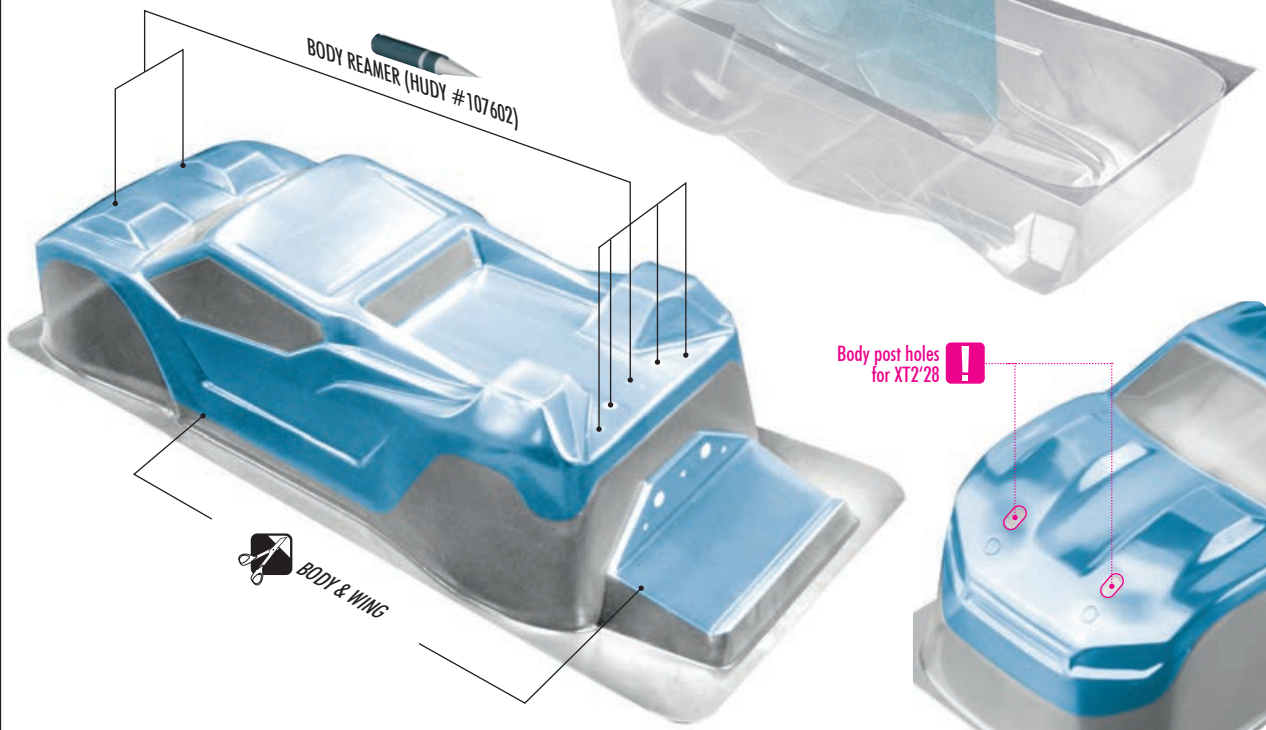
FRONT BODY MOUNT SETS

OPTION	FRONT BODY MOUNT SETS		
#301322	0mm	INCLUDED	
#301323	+1mm	OPTION	
#301324	+2mm	OPTION	



- 1 Before cutting and making holes on the BODY, put the unpainted body on the chassis to confirm the mounting position and location for holes and cutouts. Before cutting and making holes on the WING, put the unpainted wing on the wing holders to confirm the mounting position and location for holes and cutouts.
- 2 Before painting, wash the inside of the body with mild detergent, and then rinse and dry thoroughly.
- 3 Mask all windows.
- 4 Apply paint masks as appropriate.

- 5 Paint the body using paints formulated for polycarbonate bodies.
- 6 When the paint is dry, remove the masking.
- 7 Carefully cut out the body using appropriate scissors or cutting tools.
- 8 When you have finished cutting, peel off the external protective films.
- 9 Assembly rear wing.



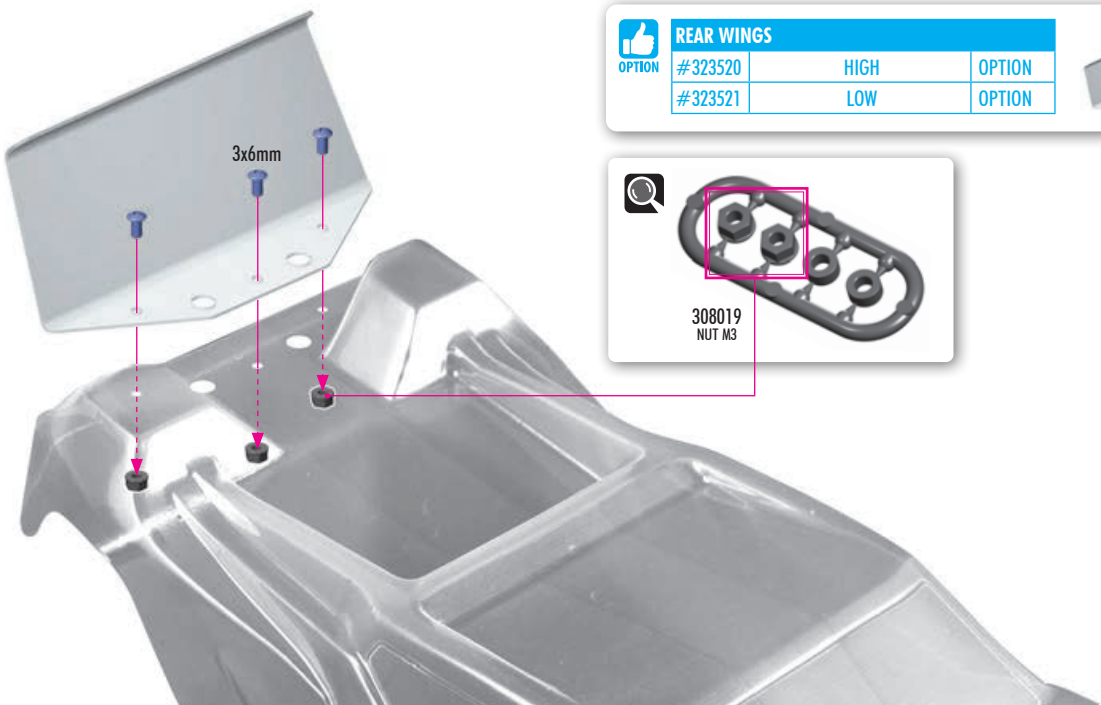
BODY STADIUM TRUCK

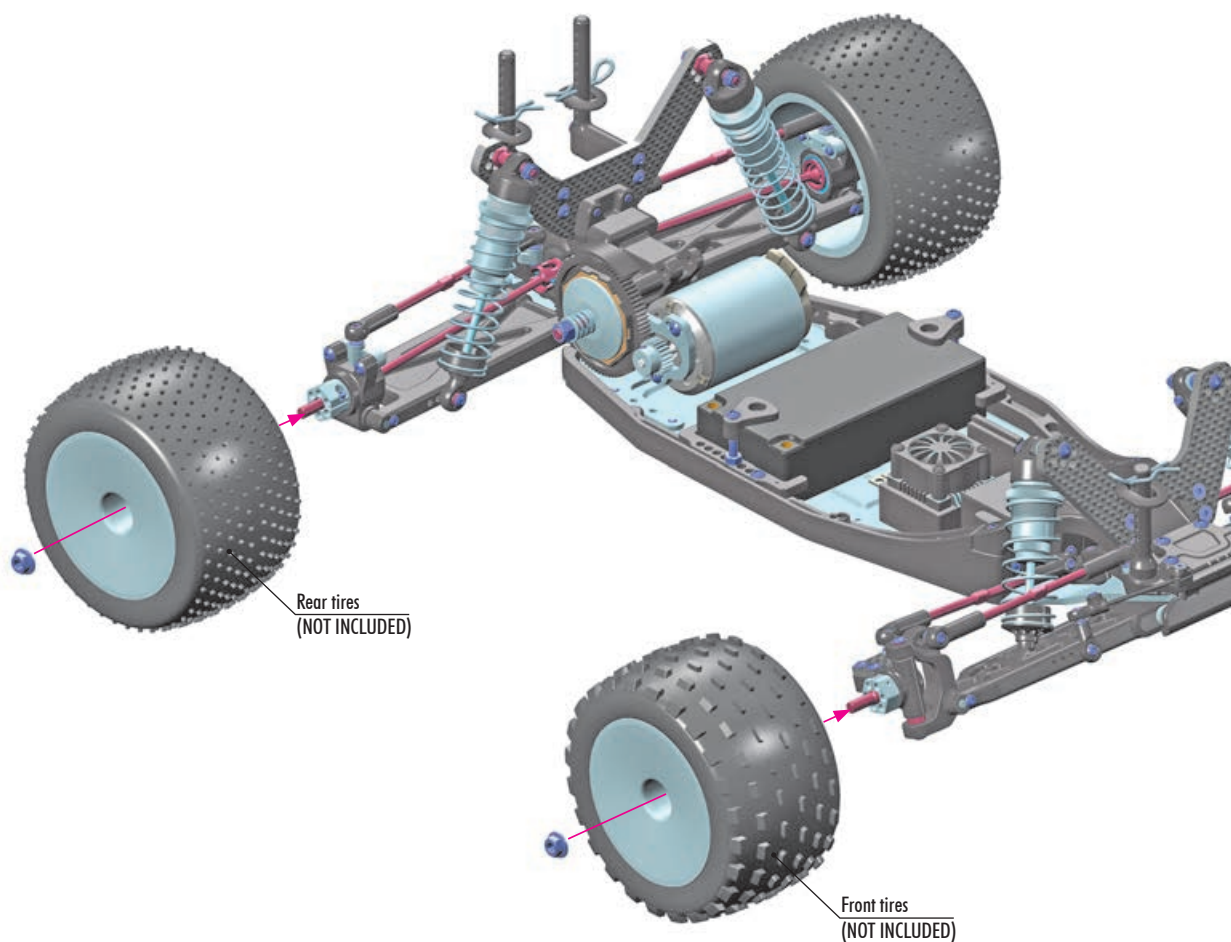
#329722	1.0mm	LOWER	INCLUDED
#329723	0.75mm	LOWER	OPTION



REAR WINGS

#323520	HIGH	OPTION
#323521	LOW	OPTION





4x 960240
N M4



TITANIUM NUT M4 - SERRATED FLANGE

#296542	SILVER	OPTION	
#296542-K	BLACK	OPTION	
#296542-B	BLUE	OPTION	
#296542-G	GREEN	OPTION	
#296542-Y	GOLD	OPTION	
#296542-V	VIOLET	OPTION	
#296542-C	RAINBOW	OPTION	



ALU NUT M4 - SERRATED FLANGE

#296541-B	BLUE	OPTION	
#296541-K	BLACK	OPTION	
#296541-O	ORANGE	OPTION	
#296541-V	VIOLET	OPTION	



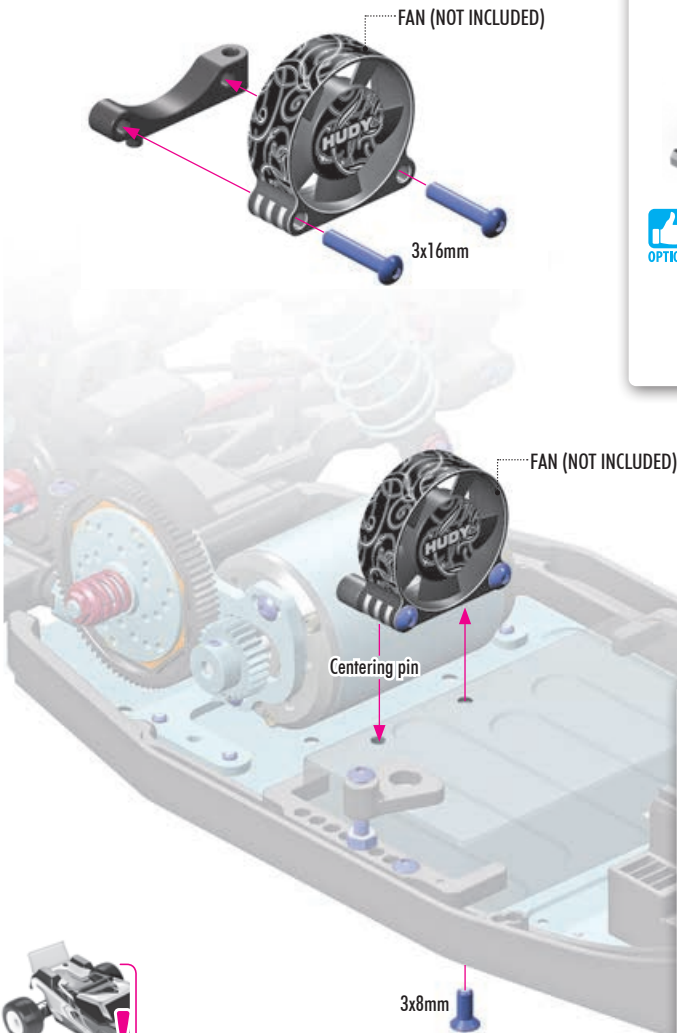
XRAY REAR AERODISK WHEELS

#329902	WHITE	10pcs	OPTION
#329912	WHITE	2pcs	INCLUDED

- 2x 902316 SH M3x16
- 1x 903308 SFH M3x8

ALTERNATIVE 1

FAN ASSEMBLY BETWEEN BATTERY & MOTOR

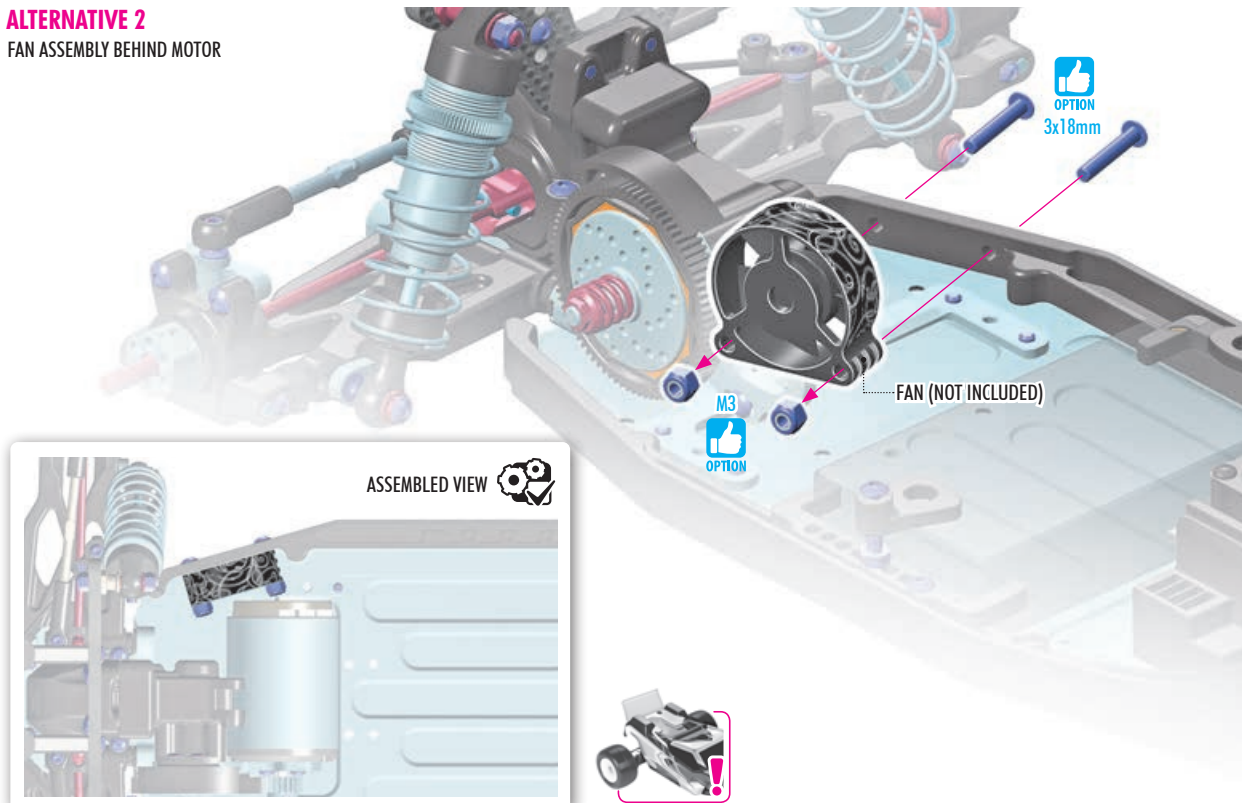


- #293101 HUDY ALU RC FAN 30MM SIDE MOUNT 2 HOLE
- #293112 HUDY BRUSHLESS RC FAN 30MM WITH INTERNAL SOLDERING TABS
- #293110 HUDY BRUSHLESS RC FAN 30MM WITH EXTERNAL SOLDERING TABS

- 2x 902318 SH M3x18
- 2x 960030 NUT M3

ALTERNATIVE 2

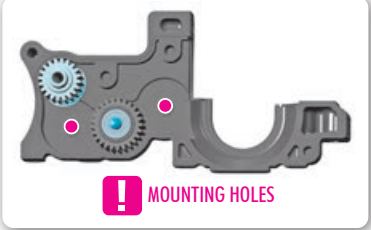
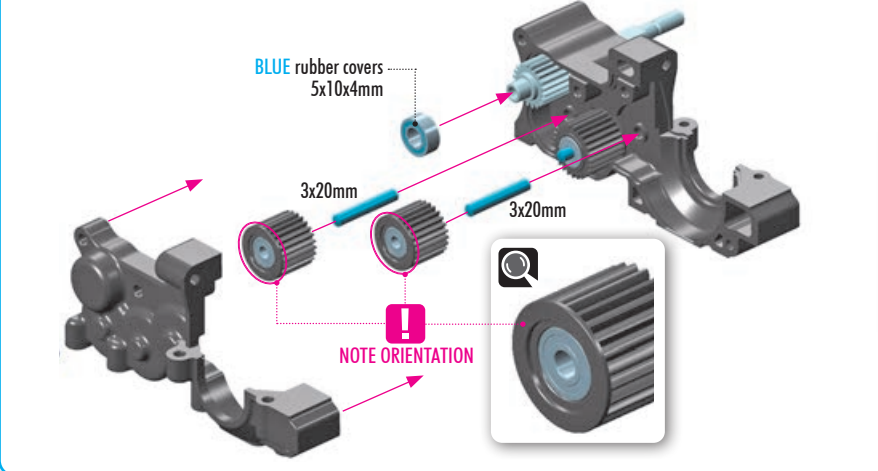
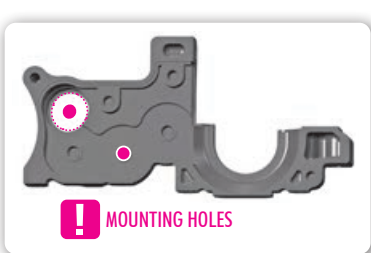
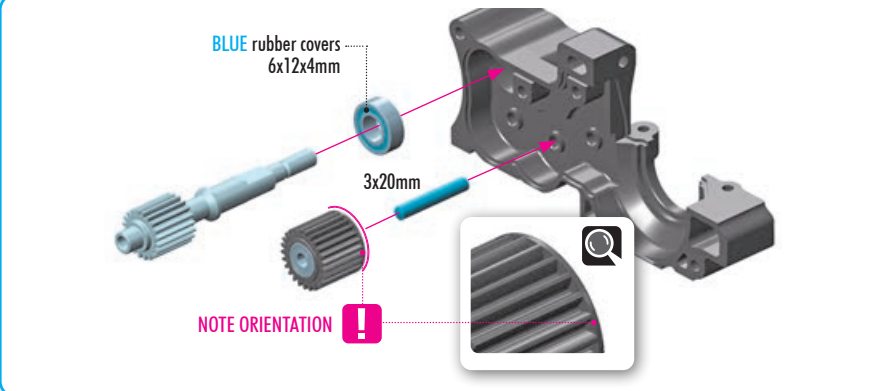
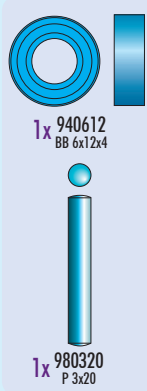
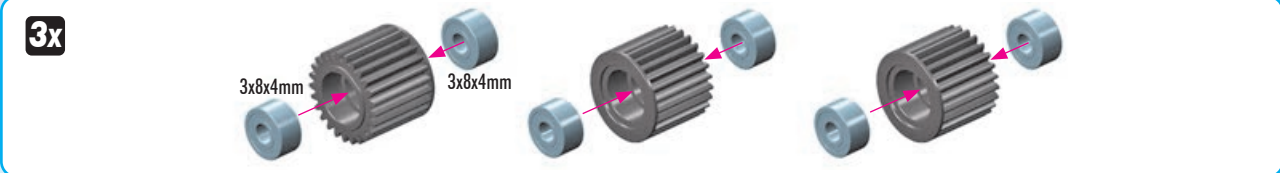
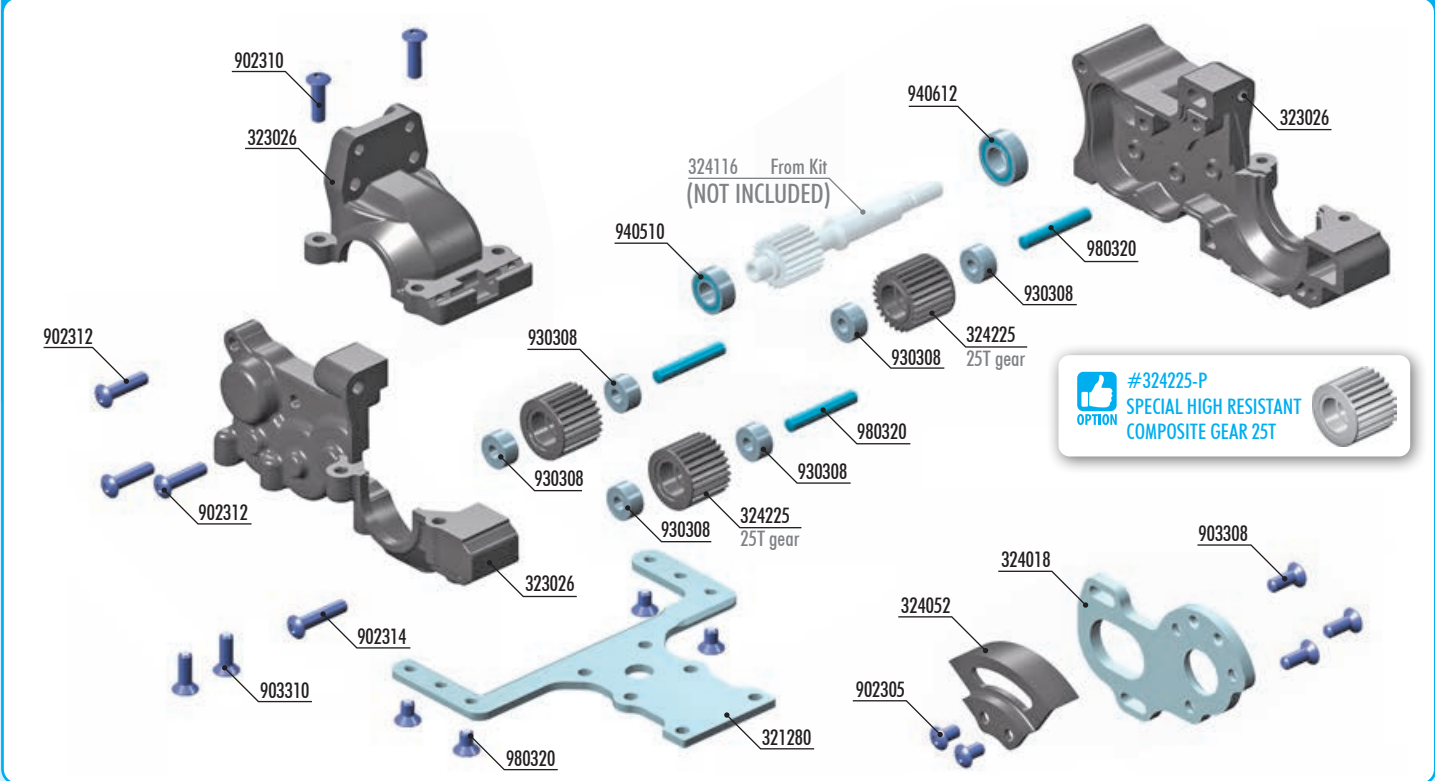
FAN ASSEMBLY BEHIND MOTOR



XRAY TUNING PARTS - ASSEMBLY DETAILS

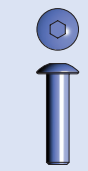
(NOT INCLUDED)

#320905
OPTION XB2 5G GEAR BOX CONVERSION SET



XRAY TUNING PARTS - ASSEMBLY DETAILS

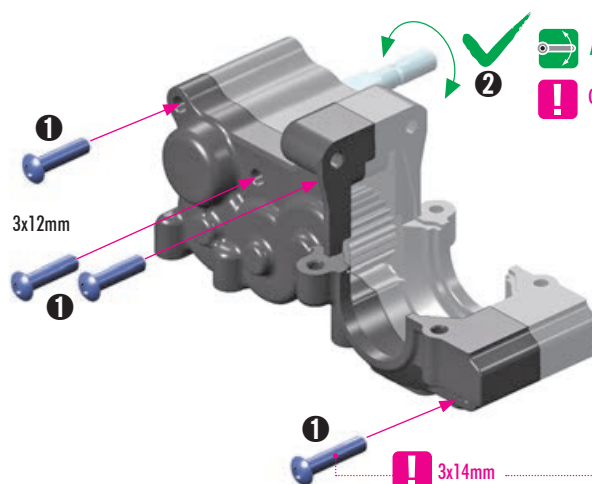
(NOT INCLUDED)



3x 902312
SH M3x12



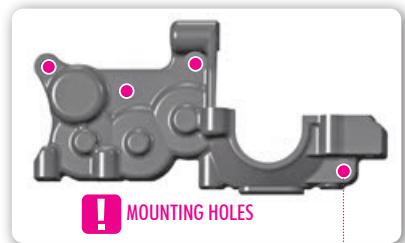
1x 902314
SH M3x14



After assembly, check for free rotation of all drivetrain parts.



Correct teeth play will be achieved after the final chassis assembly.



! MOUNTING HOLES



Next follow the 5G Gear Box assembly instructions following these pages and steps:



Page 11 / step 1



Page 22 / step 1 + step 2 + step 3



Page 24 / step 1



Page 25 / step 1 + step 2



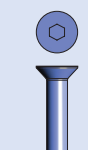
Some of the screws must be used from the kit.



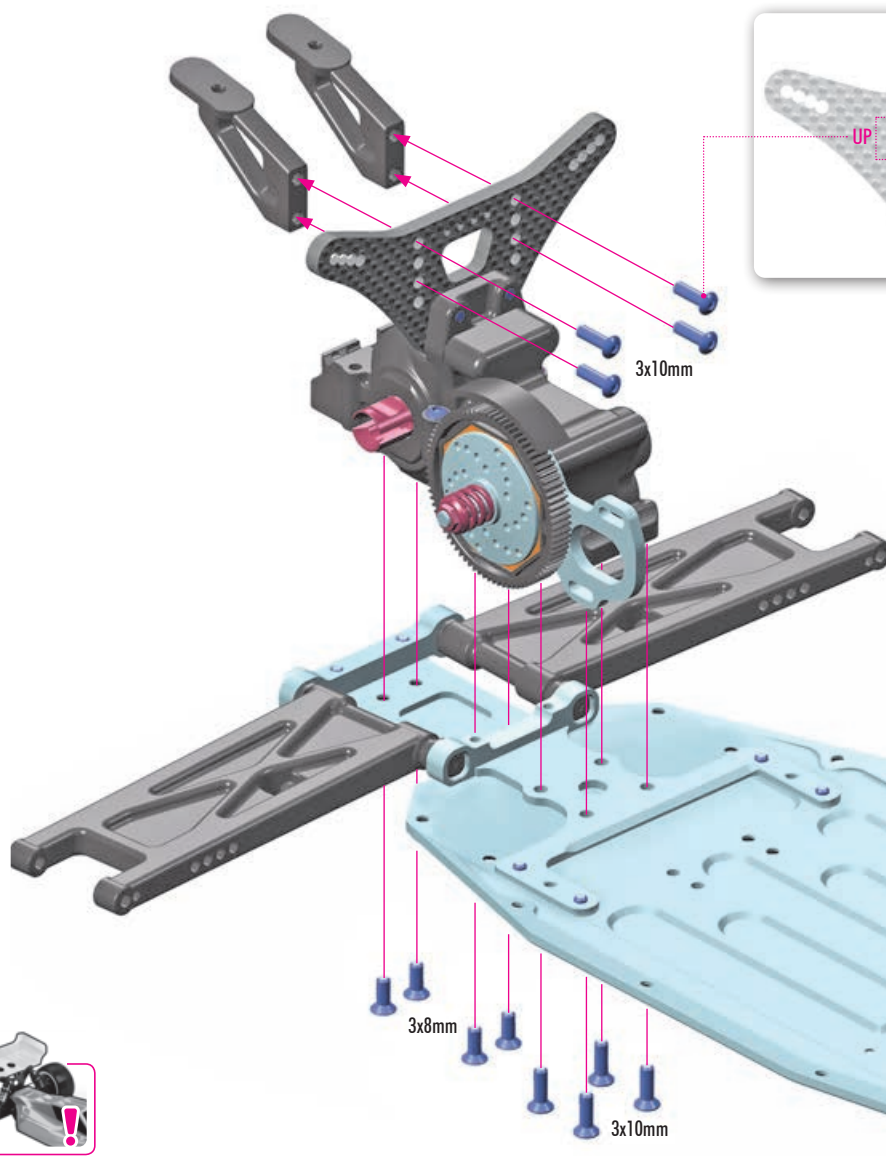
4x 902310
SH M3x10



4x 903308
SFH M3x8



4x 903310
SFH M3x10



INITIAL SETTING

UP

DOWN

UP



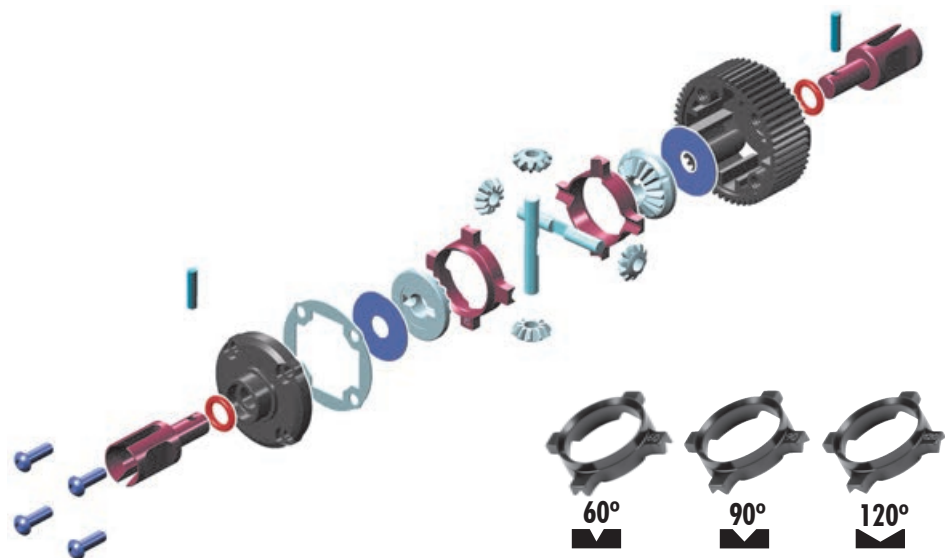
XRAY TUNING PARTS - ASSEMBLY DETAILS

(NOT INCLUDED)



#325101

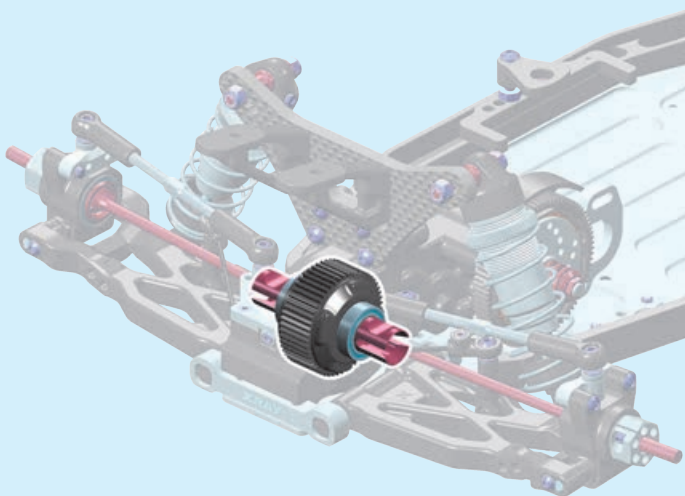
XRAY XB2 ACTIVE DIFF - NARROW - SET



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 aggressive 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 DIF. CASES

#324912	HARD	INCLUDED
#324912-G	GRAPHITE	OPTION

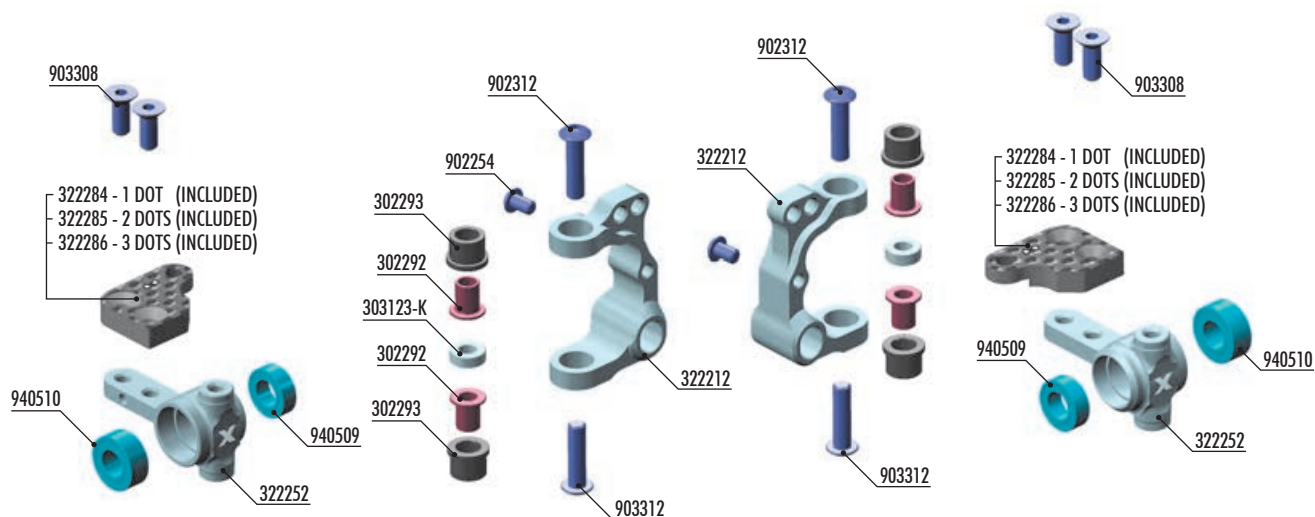
GEAR DIF. PULLEYS

#324955	HARD	INCLUDED
#324955-G	GRAPHITE	OPTION



#320904

ALU STEERING BLOCKS & C-HUBS WITH BACKSTOP - SET



XRAY TUNING PARTS - ASSEMBLY DETAILS

(NOT INCLUDED)



303123-K
SHIM 3x6x2



902254
SH M2.5x4

2x

2x



902312
SH M3x12

4x



903308
SH M3x6

4x



940509
BB 5x9x3

2x



940510
BB 5x10x4

2x

2x

L=R

INITIAL SETTING

2 Dots

3x8mm

2.5x4mm

3x12mm

5x9x3mm

5x10x4mm

2mm

3x12mm

ASSEMBLED VIEW

L=R

It is NOT possible to combine aluminum blocks & c-hubs with composite ones.





902254
SH M2.5x4



306219
SHIM 3x6x1



306219
SHIM 3x6x2

2x

2x

2x

From KIT

1mm

Caster Eccentric Bushings from KIT

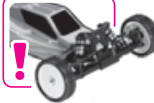
From KIT

2mm

2x

L=R

2.5x4mm





902254
SH M2.5x4

2x



APPLY THREAD LOCK



STEERING ANGLE SCREW 2.5x4mm must be used ONLY with 3 Dots steering plate.

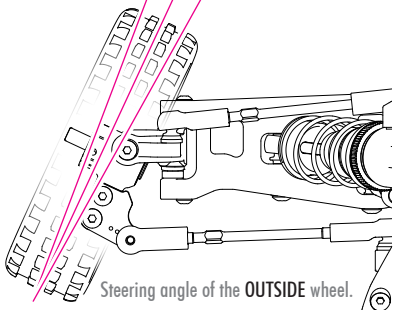
The steering may LOCK when the steering angle screw is NOT used.

Steering angle of the INSIDE wheel.

2 Dots

3 Dots

1 Dot



Steering angle of the OUTSIDE wheel.

INITIAL SETTING

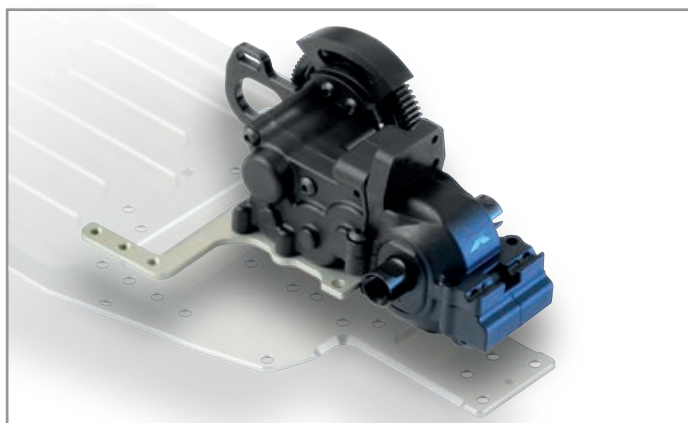
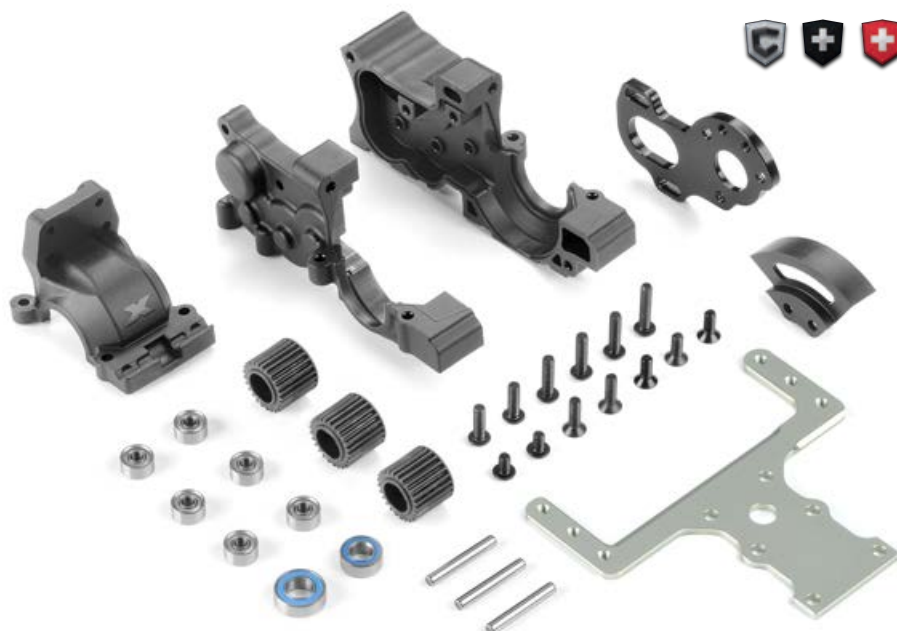
3 Dots

2 Dots

1 Dot

XRAY TUNING PARTS

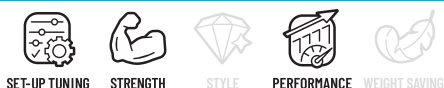
(NOT INCLUDED)



#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
- Increases rotation which provides 20% more steering
- Lowers CG



Graphite composite mixture

#323026-G

Composite 5G Gear Box Graphite - Set

- Specially-formulated graphite composite mixture
- Higher temperature resistance
- Lightweight
- More durable
- Higher wear resistance



Graphite composite mixture

#323029-G

Composite 3G Gear Box Graphite - Set

- Specially-formulated graphite composite mixture
- Higher temperature resistance
- Lightweight
- More durable
- Higher wear resistance



#322046

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

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



#322575

Alu Steering Plate for 1-Piece Chassis - Set

- More precise steering
- Increased strength & reliability
- Premium Swiss 7075 T6 aluminum
- Black coated



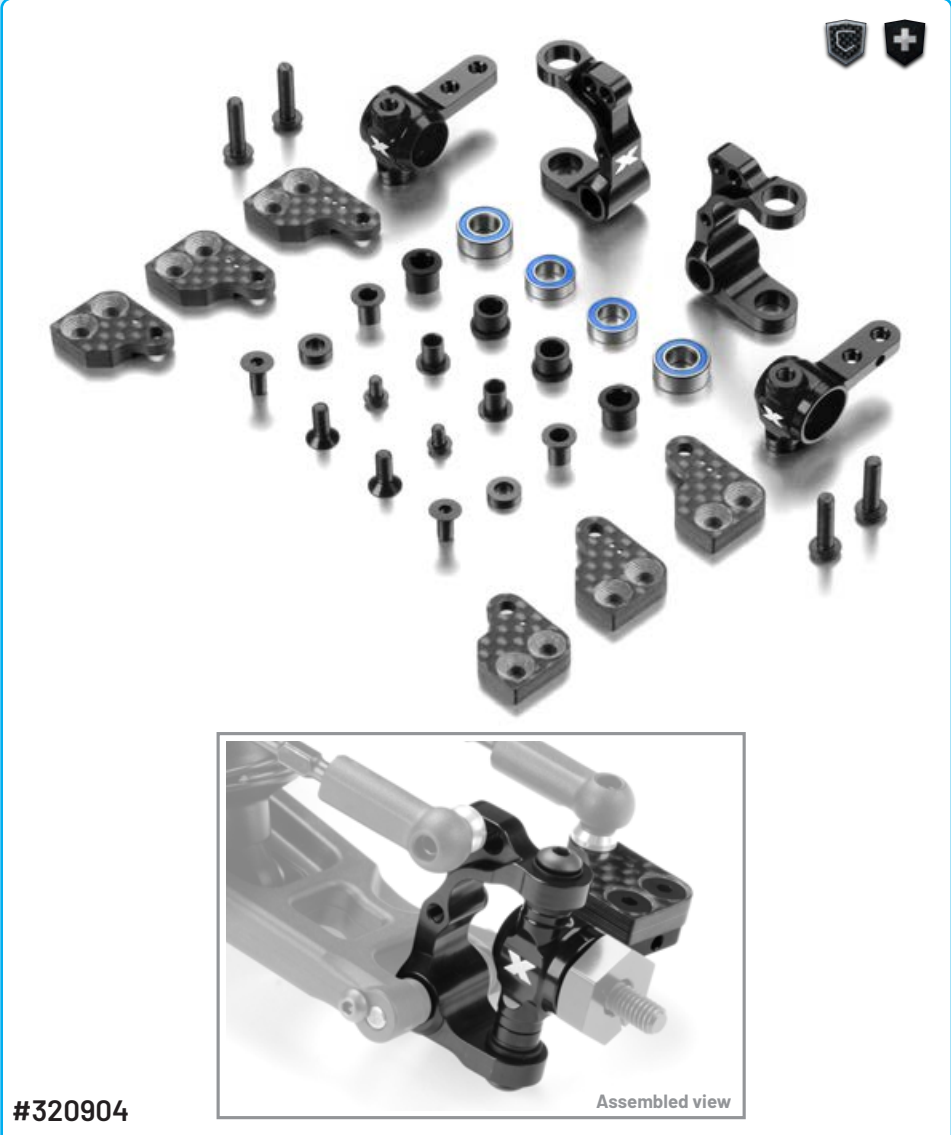
#322516

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

- More precise steering
- Increased strength & reliability
- Premium Swiss 7075 T6 aluminum
- Black coated



XRAY TUNING PARTS
(NOT INCLUDED)





#320904

Alu Steering Blocks & C-hubs with Backstop - Set

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



SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING



HIGHER
Arm Mounting

#323355



LOWER
Arm Mounting

#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 types of surfaces and traction:

- CARPET
- Dry ASTRO
- DIRT very high traction



SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING



#325341 **#325390**

Rear Adjustable Drive Axle LB
HUDY Spring Steel™

- Unique length adjustment
- Precise fit
- Highly durable
- Lightweight
- Extra-long lifespan
- HUDY Spring Steel™



SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING



#980320-T

Titanium Pin 3x20 (2)

- Ultra-precision hand ground for high durability
- Long life
- More than 40% lighter compared to standard steel pins
- Fits all XB2 gear boxes
- Set of 2



SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING



#321211

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

- Integrated +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 STYLE PERFORMANCE WEIGHT SAVING

Image of Slipper Eliminator - LCG Ultra-Lightweight - Set. Includes a spur gear and a slipper clutch. Stock Class Factory Choice badge. Part #324103. 72T included in set.

Slipper Eliminator - LCG Ultra-Lightweight - Set

Eliminates slipper effect, Specially designed for stock class, Reduces maximum rotation mass, Increases acceleration, Reduces weight of drivetrain, Ultra lightweight, Includes 72T spur gear, Premium Swiss 7075 T6 aluminum.

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:

Image of Slipper Eliminator Spur Gear 69T / 48P. Part #325869.

Icons for Set-up Tuning, Strength, Style, Performance, Weight Saving.

Image of Composite C-Hubs. Part #322210-M, #322210-H, #322210-G, #322220-M, #322220-H, #322220-G.

Composite C-Hubs

Durable, Reliable, Increased stability, More predictable handling, For all traction alternatives.

MEDIUM: For low traction. More steering on low traction.

HARD: 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

Icons for Set-up Tuning, Strength, Style, Performance, Weight Saving.

Image of Alu Wheel Hex Hubs 12mm. Various sizes: -1.25mm, -0.75mm, 0mm, +0.75mm, +1.5mm, +2.25mm, +3.0mm, +3.75mm, +4.5mm.

Alu Wheel Hex Hubs 12mm

Precision track-width change, Marked for easy identification, Additionally drilled, Lightweight design, Black coated, Premium Swiss 7075 T6 aluminum.

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

Icons for Set-up Tuning, Strength, Style, Performance, Weight Saving.

Image of Alu Shock Cap-Nut With Vent Hole - Big Bore (2). Part #368054.

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.

Icons for Set-up Tuning, Strength, Style, Performance, Weight Saving.

Image of Precision Ground Shock Piston Blanks 2.5mm - Big Bore (4). Part #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.

Icons for Set-up Tuning, Strength, Style, Performance, Weight Saving.

Image of Precision Ground Shock Piston Blanks 2.0mm - Big Bore (4). Part #368034.

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.

Icons for Set-up Tuning, Strength, Style, Performance, Weight Saving.

XRAY TUNING PARTS

(NOT INCLUDED)



Front Solid Suspension Arms

- Solid front lower suspension arm
- Various material alternatives
- Solid design
- Extreme durability
- Increased rigidity and strength
- Increases stability
- Makes car more predictable
- Easier to drive

OTHER VARIANTS:

Front Suspension Arms	
Part number	Hardness
#322115-M	MEDIUM
#322115-H	HARD
#322115-G	GRAPHITE

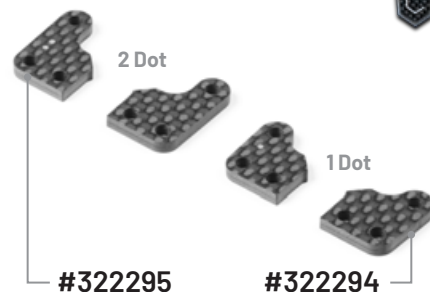


Rear Solid Suspension Arms

- Solid rear lower suspension arm
- Various material alternatives
- Solid design
- Extreme durability
- Increased rigidity and strength
- Increases stability
- Makes car more predictable
- Easier to drive

OTHER VARIANTS:

Rear Solid Suspension Arms	
Part number	Hardness
#323116-M	MEDIUM
#323116-H	HARD
#323116-G	GRAPHITE

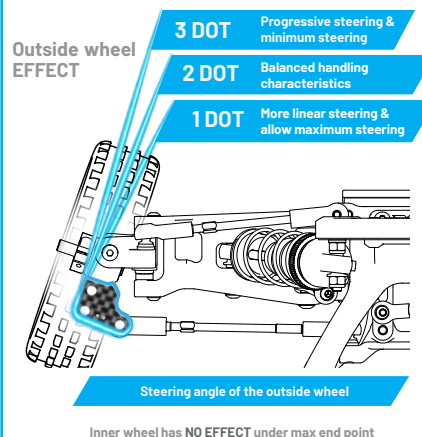


Carbon Extension for Steering Block

- 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
#322295	2 Dots
#322296	3 Dots



#326178

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

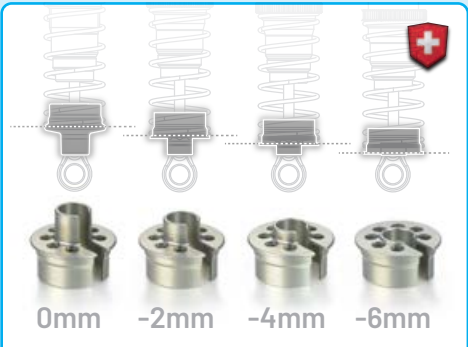
Slipper Clutch Pad Black Medium (2)

- 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



XRAY TUNING PARTS

(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.



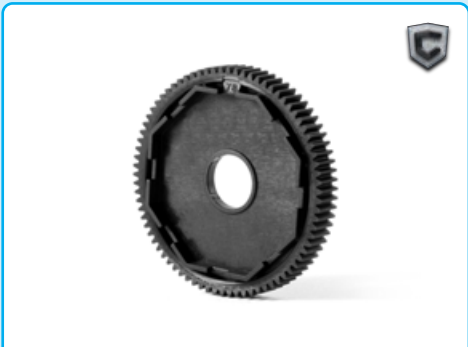
SET-UP TUNING

STRENGTH

STYLE

PERFORMANCE

WEIGHT SAVING



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

SET-UP TUNING

STRENGTH

STYLE

PERFORMANCE

WEIGHT SAVING



Stainless Steel Battery Weight 35g

- 35g Added weight
- Stainless steel material
- Inserted under battery directly on chassis
- Easier to drive
- Improves landing
- Lower cg

SET-UP TUNING

STRENGTH

STYLE

PERFORMANCE

WEIGHT SAVING



Stainless Steel Weight under Servo 1-Piece Chassis 13g

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

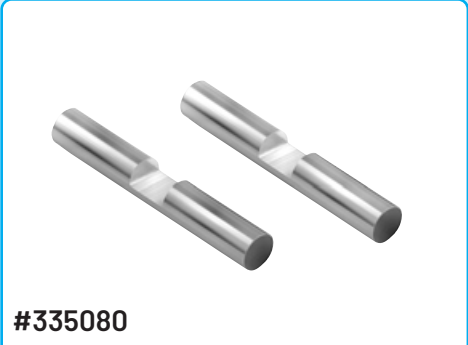
SET-UP TUNING

STRENGTH

STYLE

PERFORMANCE

WEIGHT SAVING



Steel Differential Pin (2)

- Long life
- Extra durable
- CNC-machined

SET-UP TUNING

STRENGTH

STYLE

PERFORMANCE

WEIGHT SAVING



Alu Differential Pin - Hardcoated (2)

- Long life
- Extra durable
- CNC-machined
- Alu hard coated pins
- Light
- Strong
- Premium Swiss 7075 T6 aluminum

SET-UP TUNING

STRENGTH

STYLE

PERFORMANCE

WEIGHT SAVING



Composite Elevated Side Braces L+R - Long - Graphite

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

SET-UP TUNING

STRENGTH

STYLE

PERFORMANCE

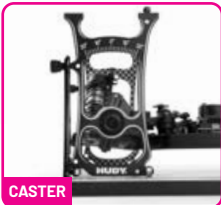
WEIGHT SAVING

HUDY SET-UP TOOL & ACCESSORIESS

(NOT INCLUDED)



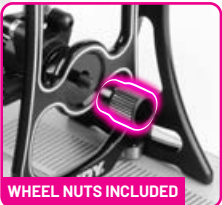
TOE



CASTER



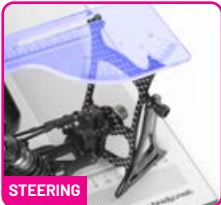
FRONT & REAR CAMBER



WHEEL NUTS INCLUDED



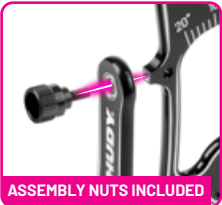
SET-UP BOOK



STEERING



CARRYING BOX & FOAM INSERTS



ASSEMBLY NUTS INCLUDED

#108901 HUDY Set-up Station for 1/10 Off-road

#108840 HUDY Upside Measure Plate for 1/10 Truck

(Spare upside measure plate for set-up systems for 1/8 off-road cars)

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 precision 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



STYLE



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



SET-UP TUNING



STRENGTH



STYLE



PERFORMANCE



WEIGHT SAVING



#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 600mm connecting cable with gold-plated banana plugs
- Premium hard case for safe storage & transport



SET-UP TUNING



STRENGTH



STYLE



PERFORMANCE



WEIGHT SAVING



HUDY Titanium Super-Low Head Screw - Centering Diameter

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

OTHER VARIANTS:

Part number	Length	Pcs	Image
#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	



HUDY Titanium Flat Head Screw

OTHER VARIANTS:

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



SET-UP TUNING



STRENGTH



STYLE



PERFORMANCE



WEIGHT SAVING

EXCLUSIVE PROFESSIONAL

HUDY

108605 - BLACK

108601 - GREY

108603 - DARK GREY

108602 - SILVER GREY

108604 - TITAN

199183

104004

107701

106000 + 106036

109801

181090

107740

107742

181030

293100

293101

293110

293112

104004 HUDY AIR VAC - VACUUM PUMP - 1/10 OFF-ROAD
105500 HUDY UNIVERSAL TIRE BALANCING STATION
105520 WHEEL ADAPTER FOR 1/10 TOURING CARS - 12MM
106000 HUDY DRIVE PIN REPLACEMENT TOOL (FOR 3MM PINS)
106036 EJECTOR PIVOT PIN & ALTERNATING PIVOT 2.5MM FOR #106000
107090 HUDY BEARING CHECKING TOOL
107601 LIMITED EDITION - REAMER FOR BODY Ø-9MM + COVER - SMALL
107701 CHASSIS DROOP GAUGE SUPPORT BLOCKS 20MM FOR 1/8 - LW(2)
107740 HUDY ADJUSTABLE RIDE HEIGHT GAUGE 14-20MM
107742 HUDY ADJUSTABLE RIDE HEIGHT GAUGE 20-30MM
107855 HUDY PIT LED
107880 CHASSIS BALANCING TOOL (2)

108160 HUDY 1/10 OFF-ROAD CAR STAND - V2
108190 HUDY ALU TRAY FOR PARTS
108601 FLAT SET-UP BOARD FOR 1/10 OFF-ROAD - LIGHTWEIGHT - GREY
108602 FLAT SET-UP BOARD FOR 1/10 OFF-ROAD - LIGHTWEIGHT - SILVER GREY
108603 FLAT SET-UP BOARD FOR 1/10 OFF-ROAD - LIGHTWEIGHT - DARK GREY
108604 FLAT SET-UP BOARD FOR 1/10 OFF-ROAD - LIGHTWEIGHT - TITAN
108605 FLAT SET-UP BOARD FOR 1/10 OFF-ROAD - LIGHTWEIGHT - BLACK
108901 HUDY SET-UP STATION FOR 1/10 OFF-ROAD CARS (WITH #108840)
108960 ALU NUT FOR 1/10 OFF-ROAD SET-UP SYSTEM (4)
109801 HUDY ALU TRAY FOR 1/10 OFF-ROAD DIFF & SHOCKS
109840 HUDY ALU TRAY FOR 1/10 OFF-ROAD DIFF ASSEMBLY
109860 HUDY ALU TRAY FOR SET-UP SYSTEM



199183	HUDY CAR BAG - 1/10 OFF-ROAD
199270	HUDY LIPO SAFETY BAG
293100	HUDY ALU RC FAN 30MM - BOTTOM MOUNT 2 HOLE
293101	HUDY ALU RC FAN 30MM - SIDE MOUNT 2 HOLE
293110	HUDY BRUSHLESS RC FAN 30MM - WITH EXTERNAL SOLDERING TABS
293112	HUDY BRUSHLESS RC FAN 30MM - WITH INTERNAL SOLDERING TABS
298100	HUDY TIN ROUND BOX 80X30MM

www.hudy.net

www.teamxray.com

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